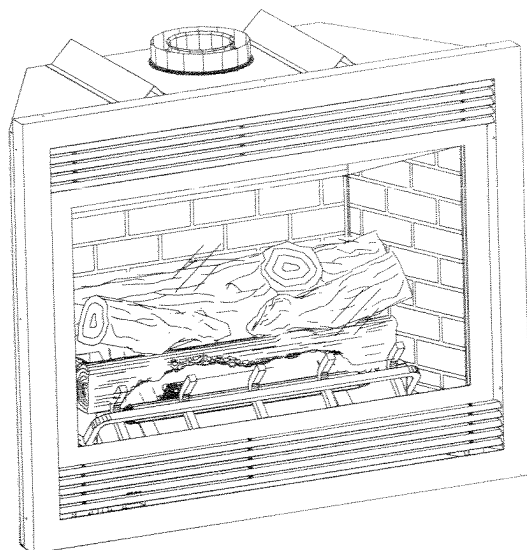


MENDOTA GAS DIRECT VENT FIREPLACE

WITH
HEARTHGLO SEALED COMBUSTION SYSTEM

Model DXV-35N Model DXV-35P



INSTALLATION & OPERATING INSTRUCTIONS

NO. 199



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.

FOR YOUR SAFETY:

IF YOU SMELL GAS:

1. OPEN WINDOWS.
2. DO NOT TOUCH ELECTRICAL SWITCHES.
3. DO NOT TRY TO LIGHT ANY APPLIANCE.
4. EXTINGUISH ANY OPEN FLAME
5. DO NOT USE THE PHONE IN YOUR BUILDING.
6. IMMEDIATELY CALL YOUR GAS SUPPLIER FROM A NEIGHBOR'S PHONE.
7. FOLLOW THE GAS SUPPLIERS INSTRUCTIONS.
8. IF YOU CANNOT REACH YOUR GAS SUPPLIER, CALL THE FIRE DEPARTMENT.

FOR YOUR SAFETY

INSTALLATION AND SERVICE MUST BE PERFORMED BY A QUALIFIED INSTALLER, SERVICE AGENCY, OR THE GAS SUPPLIER. DO NOT STORE OR USE GASOLINE OR OTHER FLAMMABLE VAPORS AND LIQUIDS IN THE VICINITY OF THIS OR ANY OTHER APPLIANCE

WARNING:

MENDOTA GAS FIREPLACES ARE HEAT PRODUCING APPLIANCES. DO NOT BURN WOOD, PAPER OR OTHER MATERIALS IN THE FIREPLACE. THE FIREPLACE IS DESIGNED AS A SUPPLEMENTAL HEAT SOURCE. IT IS ADVISABLE TO HAVE AN ALTERNATE HEAT SUPPLY.

WARNING: IF THE INFORMATION IN THIS MANUAL IS NOT FOLLOWED EXACTLY, A FIRE OR EXPLOSION MAY RESULT CAUSING PROPERTY DAMAGE, PERSONAL INJURY OR LOSS OF LIFE.

IMPORTANT: THESE INSTRUCTIONS ARE TO REMAIN WITH THE HOMEOWNER!

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SPECIFICATIONS

MODEL DXV-35N NATURAL GAS - DXV-35P LP GAS

High Fire - Adjustable to - Low Fire

BTUH. (MODEL DXV-35N)	NAT. GAS	33,000	21,000
BTUH. (MODEL DXV-35P)	L.P. GAS	33,000	18,500
MAIN ORIFICE	#32 NAT. GAS -- #50 L.P. GAS		
OVERALL EFFICIENCY	EXCEEDS D.O.E. EFFICIENCY REQUIREMENTS (A.F.U.E.) FOR DIRECT VENT WALL HEATERS		
CO-AXIAL DIRECT VENT FLUE	4" INNER, 6 5/8" OUTER		
TOTAL WEIGHT.....	185 POUNDS		
SAFETY	AGA CERTIFIED PILOT GENERATOR, MILLIVOLT SYSTEM ACTIVATED WITH SWITCH, THERMOSTAT OR REMOTE CONTROL.		
GAS REQUIREMENTS.....	<u>SUPPLY PRESSURE:</u> GAS INLET: 3/8" N.P.T. NAT. GAS: 7" W.C. (5" W.C. MIN., 11" W.C. MAX.) L.P. GAS: 11.0" W.C. (11" W.C. MIN., 13" W.C. MAX.)		
ELECTRICAL REQUIREMENTS.....	115 VOLT		

Certified under ANSI Z21.44-1995 "Direct Vent Wall Furnaces" not for use with solid fuel. Approved for bedroom installations and mobile homes. UL307B approved for "mobile homes, after first sale of home, not for recreational vehicles."

Gas appliances must be tested and certified by a nationally recognized testing and certification agency to American National Standards Institute - ANSI Gas Appliance Safety Standards. For more information see pg. 24.
The Mendota Gas DXV Fireplace has been tested and certified by Intertek Testing Services 8431 Murphy Drive, Middleton, WI

FIREPLACE INCLUDES A HEARTHGLO SEALED COMBUSTION SYSTEM, 4 CERAMIC FIBER LOG MODULE & COALS, FIREBRICK LINED FIREBOX, NEO-CERAM GLASS, PIEZO IGNITER, BLOWER, AGA CERTIFIED SAFETY SYSTEM, AND WALL THERMOSTAT.

OPTIONS: BLACK OR BRASS TONE GRILL SETS, BLACK OR GOLD "FILIGREE" FRONT, FIRESCREEN, DECORATOR BRASS TRIM KIT.

CONGRATULATIONS!

You are the owner of a world class heat producing gas direct vent sealed combustion fireplace.

This elegant, highly efficient Fireplace will be a constant source of comfort and fascination. It will be the focal point of beauty and interest in your home.

The Mendota Gas Fireplace is a true heating appliance incorporating the traditional aesthetics of fireplace fire viewing with the controllability and fuel efficiency of a home gas furnace. Of particular interest is the low fuel consumption and brilliant fire viewing afforded by the patented realistic HearthGlo wood fire-like combustion system.

Carefully read the following instructions prior to actual installation. Proper Mendota Gas Fireplace installation and operation will give you years of safe trouble free comfort and enjoyment.

If you have any questions regarding installation or operation of your Mendota Fireplace please contact your local dealer.

.....CAUTION.....

FOR YOUR SAFETY do not install or operate your Mendota Gas Fireplace without first reading and understanding this manual. Any installation or operational deviation from this manual voids the Mendota Gas Fireplace Warranty and may prove hazardous!

Due to high temperatures, the Fireplace should be located out of traffic and away from furniture and draperies. Children and adults should be alerted to the hazards of high surface temperature and should stay away to avoid burns or clothing ignition. Young children should be carefully supervised when they are in the same room as the Mendota Gas Fireplace.

Clothing or other flammable material should not be placed on or near the Fireplace.

The Mendota Gas Fireplace is a powerful, efficient heating unit. It has been designed as a major source of supplemental heat. As with any mechanical appliance there can be component shut downs. It is advisable to have an alternate heat supply.

Installation, repair and any adjustments to logs or burner must be done by a qualified service person. The Fireplace should be inspected before use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, carbon build-up, etc. It is imperative that control compartments, burners and circulating air passageways of the appliance be kept clean. The burner and pilot flames and logs should be visually checked periodically.

DO NOT use this Fireplace if any part has been under water or exposed to moisture corrosion. Immediately call a qualified service technician to inspect the Fireplace and replace any part of the control system and any gas control which has been under water. DO NOT use this fireplace if the burner does not light immediately. Turn unit off and call Mendota approved service person if there is any delay in burner light-off.

It is Johnson Gas Appliance Company's policy that no responsibility is assumed by the Company or by any of its employees or representatives for any damages caused by an inoperable, inadequate, or unsafe condition which is the result, either directly or indirectly, of any improper operation, installation or servicing procedures.

INSTALLER: THESE INSTRUCTIONS ARE TO REMAIN WITH HOMEOWNER.

LOCATING THE FIREPLACE AND GENERAL INFORMATION

Your Mendota Gas Fireplace has a state-of-the-art co-axial direct vent, sealed combustion system. This advanced, highly efficient system brings in outside air for combustion, has a separate exhaust vent and efficiently heats and re-circulates room air. The Mendota system maintains high air quality, maximizes efficiency and assures proper operation in today's "tight" homes.

SAFETY AND STRUCTURAL CONCERNS:

The DXV Fireplace must be installed and serviced by a Mendota approved service person. Any adjustments to burner, pilot, logs or coal bed must be made by a Mendota approved service person. Pilot flame must be checked with volt meter. Pilot flame must register a minimum of 250 on millivolt meter. If pilot goes out always wait five (5) minutes before relighting pilot. Always remove the glass when lighting the pilot. The burner must light immediately & the flame must travel promptly and smoothly around "curve" and light entire burner. The flame must not "lift" off burner (see No. 7, pg. 21). DO NOT operate unit if burner does not light immediately or if flame lifts off burner.

The Mendota Direct Vent Fireplace may be placed within inches of adjacent side walls. (See Figure 1: Specifications & Clearances on pg. 5). The fireplace may be placed directly on concrete or wood flooring. If the appliance is to be installed on carpeting, vinyl or other combustible material other than wood flooring, the appliance shall be installed on a metal or wood panel extending the full width and depth of the appliance. Combustible mantels must be installed at a minimum of 14" above top of the heat outlet grill, and no more than 8" out from wall (see Figure 1: Specifications & Clearances, pg. 5). Non-combustible (marble, brick, stone, etc.) mantels or mantels with steel protector plate on underside maybe installed at any desired height above upper grill.

Never block off upper or lower grills. Always use Mendota grills and Mendota approved vent systems and vent caps.

A non-combustible hearth protector is required and must extend a minimum of 12" in front of the fireplace. If fireplace is raised off floor 6" or more, no hearth protector is required.

VENTING REQUIREMENTS:

Use only Mendota specified vents and vent caps when installing your fireplace. Closely follow venting locations, directions and requirements (see pgs. 9-16). Observe the restrictions relating to vent position on exterior of home (see pg. 10). Be sure all vent pipe sections are fully twist-locked and leak-proof. Be sure 2000° Sealant is used on the inner pipe joints of all adjustable pipe sections.

HEATING PERFORMANCE:

Mendota Gas Built-in Fireplaces are true, high efficiency gas heaters. With its high heat output the Mendota Fireplace will heat a large area of your home if situated to maximize heat circulation. Air movement options for maximizing heat circulation which can be considered are through-the-wall grills or floor grills, the continuous operation of central heating furnace blowers, or ceiling fan. **The most efficient method for overall heat distribution is a ceiling fan.** The heat output of the Fireplace can be reduced by up to 11,000 BTUH by slowly turning the Hi/Lo temperature knob on the gas valve counter clockwise from "Hi" to "Lo". Blower can also be turned down to reduce heat output.

AESTHETIC CONSIDERATIONS:

Burning or static fireplaces are a major aesthetic focus in any room. Locate your gas fireplace as you would a television set. The Mendota Hearth Gas Fireplace will be a continuing source of comfort and fascination. Corner installations will afford you the greatest potential for viewing in many rooms.

We suggest installing the Mendota Fireplace 6 to 12 inches above the floor by utilizing an elevated hearth (see drawing, pg. 5).

ELECTRICAL REQUIREMENTS:

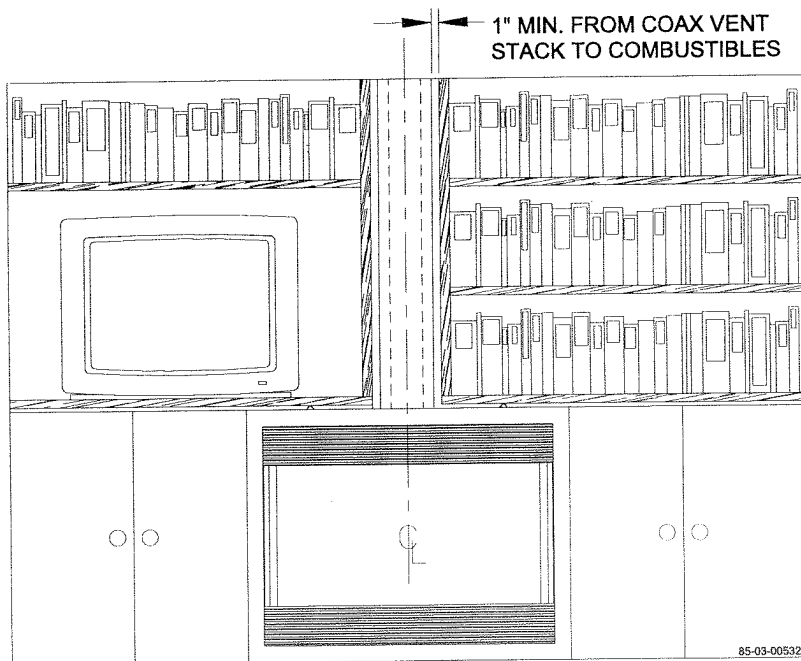
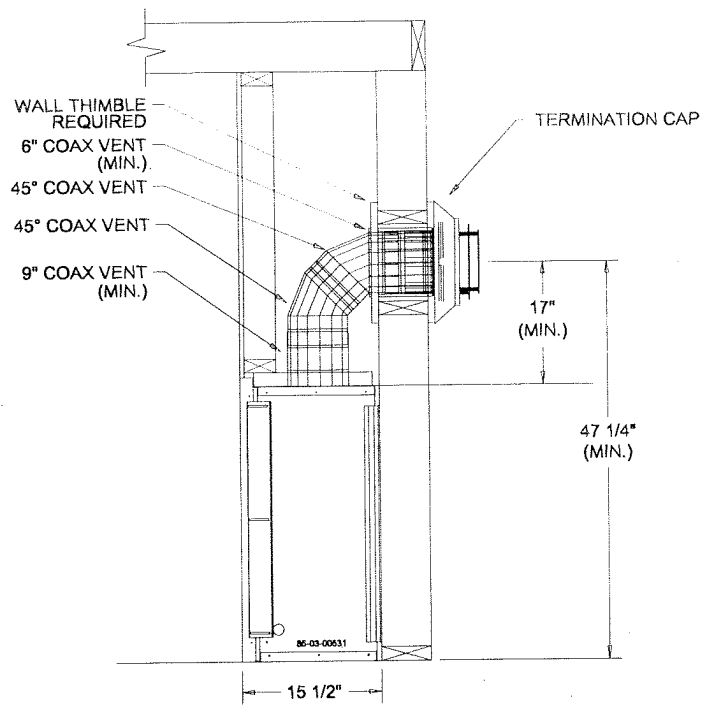
A blower is standard on your Mendota Direct Vent Fireplace, A 115 volt electrical service must be supplied at the fireplace location at the time of installation. It must be electrically grounded in accordance with local codes or in their absence with current edition of the National Electric Code ANSI/NFPA 70. Power supply to blower must be continuous. DO NOT use switch or variable control in power supplied to fireplace.

The blower on this appliance is equipped with a three-prong plug for protection against shock hazard and should be plugged directly into the grounded three prong receptacle provided with the fireplace. Do not cut or remove the grounding prong from the plug.

NOTE: The Mendota DXV Fireplace is designed so that the blower operates continually when main burner is on. The blower output can be adjusted with the rheostat, but must be on at all times the unit is operating. Note: There will be delays in blower operation during "heat-up" (approx. ½ hr.) and extended blower operation during "cool-down" (approx. ½ hr.) of unit (see Blower Wiring Diagram pg. 21).

Thermostat wire should be run from desired thermostat location (or "on/off") switch to the gas control (located behind lower grill) – see thermostat installation section (pg. 23).

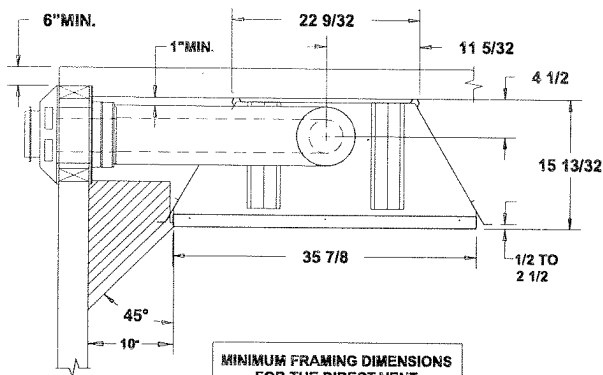
High Altitude (above 4,000 ft.) minimum height horizontal termination.



OPTIONAL SHELVING INSTALLATION

MENDOTA DXV-35 GAS DIRECT VENT FIREPLACE

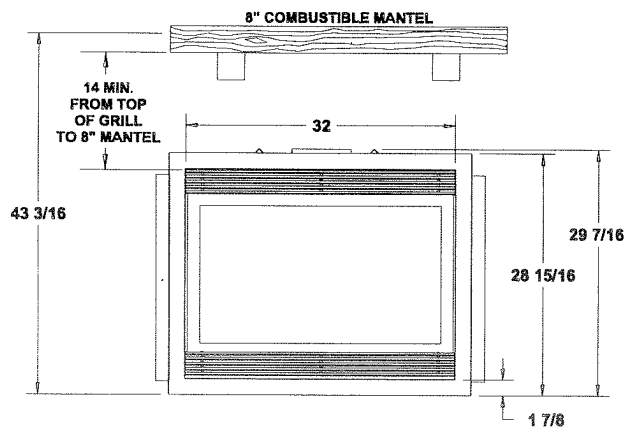
SPECIFICATIONS & CLEARANCES



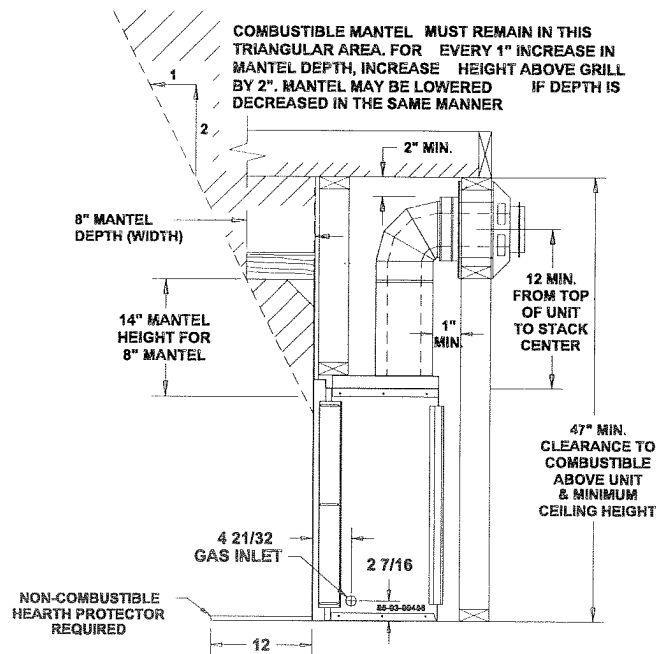
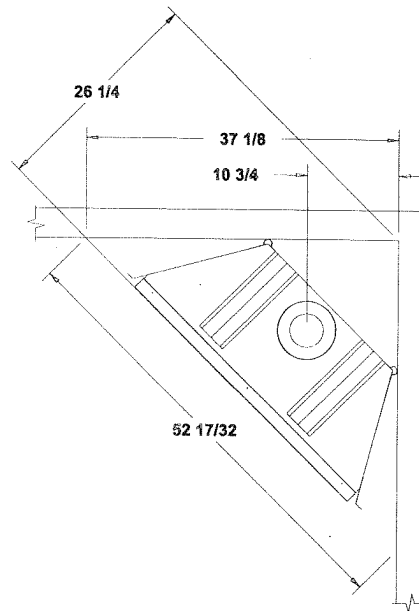
MINIMUM FRAMING DIMENSIONS FOR THE DIRECT VENT	
HEIGHT	30 (762 mm)
WIDTH	37 1/8 (943 mm)
DEPTH	16 (407 mm)

Adjacent Walls:

A wall, perpendicular to and in front of the appliance front facing must be at least 10" from the firebox opening. A wall at 45° to the front and starting at the appliance's outer edge is permitted. Projections behind this wall (shaded area) are permitted.



IF MANTEL IS MADE OF A NON-COMBUSTIBLE MATERIAL (BRICK, STONE, ETC.), OR HAS A STEEL PROTECTOR PLATE ON THE UNDERSIDE IT MAY BE PLACED ANYWHERE ABOVE GRILL



NOTE:
FOR EVERY 1" THE FIREPLACE IS RAISED OFF THE FLOOR, HEARTH PROTECTOR MAY BE REDUCED BY 2".
IF FIREPLACE IS RAISED 6" OR MORE, NO HEARTH PROTECTION IS REQUIRED.

For minimum height installations above 4,000 ft, 45° elbows should be used in place of 90° elbows.

NOTE: This requires 17" minimum opening to center (see page 4). **CAUTION:** If 90° elbows must be used, a 3 foot vertical starter section must be used directly off the top of the fireplace.

Figure 1: Specifications & Clearances

INSTALLATION INSTRUCTIONS

CAUTION: Each installation must conform to all local, state and national codes. Refer to the national fuel gas code and local zoning and code authorities for details on installation requirements. The Mendota Fireplace must be vented to the outside in accordance with the latest edition of the National Fuel Gas Code. In the absence of local codes, the installation must conform with the most current edition of the National Fuel Gas Code ANSI Z223.1, also known as NFPA 54.

NOTE: The Mendota DXV Fireplace is approved for mobile home and bedroom installations.

CAUTION: The Mendota DXV Fireplace may be installed in a manufactured (mobile) homes after the first sale of the home. Manufactured home (mobile home) installation must conform with the Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280, or, when such a standard is not applicable, the Standard for Manufactured Home Installations, ANSI A225.1/NFPA 501A, or CSA Z240.4-Gas Equipped Mobile Housing. Consult your local building official.

Note: For mobile home installations unit must be bolted to the floor and properly grounded.

The DXV Fireplace must be installed by a qualified Mendota approved service person.

1. After selection of the desired fireplace location (see pg. 3), prepare the rough opening using framing dimensions on page 5. Be sure to also prepare opening to allow for co-axial vent (see "Flue Venting Instructions" on pgs. 9-16).
NOTE: Horizontal centerline of vent wall outlet must be a minimum of 12" above top of cabinet.
2. Check to make certain all venting requirements and locations are being followed (see pgs. 9-16).
3. The Fireplace is designed to be installed into rough framing. The drywall will cover the adjustable nailing flanges on the Fireplace sides. Before sliding the Fireplace into the framed opening, adjust the nailing flanges to accommodate the thickness of the wall material. **NOTE:** FRAMING MATERIAL ABOVE FIREPLACE MUST MAINTAIN CORRECT CLEARANCE TO VENT PIPE.
4. Slide Fireplace into the rough framed opening. When finishing the unit, combustible materials may overlay nailing flanges and come in contact with the edges of the black front surface, but may not overlay the 2" black front surface. Noncombustible material, such as marble or brick, can be installed over the 2" black surface up to the inside edge of black frame (next to glass). **ROUGH FRAMING CAN COME NO CLOSER TO UNIT THAN THE STAND-OFFS.**
5. Level the Fireplace and secure into opening by nailing through the nailing flanges on cabinet side panels. Holes are provided in fireplace floor behind grill to lagscrew fireplace to floor, if required.
NOTE: A removable panel in the enclosure for future visual inspection of flue connection is recommended.
6. Have an electrician install a 115 Volt supply to the junction box on lower left side of the fireplace cabinet. Connect wires to the duplex outlet. This duplex outlet is removable from outside of cabinet for easy wiring. Make sure the outlet is properly grounded and that the installation conforms to all local and national wiring codes (See "Blower Operation" below, Blower Wiring Diagram, pg. 21 and "Electrical Requirements," pg. 3).
7. Have gas supplier or qualified plumber install gas supply line to fireplace and connect to gas nipple. Be sure gas and plumbing instructions (see pgs. 7-8) and all local and national codes are carefully followed.

IMPORTANT: Any safety screen, guard, glass, grill, pressure relief cap, etc. removed for servicing a fireplace/room heater must be replaced prior to operating the fireplace/room heater.

BLOWER OPERATION

The Mendota DXV Fireplace is designed so the blower operates continually when main burner is on. The blower output can be regulated with the rheostat (included), but it must be "on" at all times the burner is "on". **NOTE:** There will be a time delay in blower operation during "heat-up" (approx. ½ hour) and extended blower operation during "cool-down" of unit (approx. ½ hour) (pg. 21).

OPERATION DURING POWER OUTAGES

The fireplace is designed to operate during power outages. A special high limit switch will "cycle" the burner to prevent over heating (similar to a thermostat "cycling"). The "on" time cycle can be extended by turning the hi-lo knob to "Lo" and removing upper grill.

GAS SUPPLY REQUIREMENTS

CORRECT GAS PRESSURE AND PROPER GAS SUPPLY LINE SIZING ARE IMPERATIVE TO THE SUCCESSFUL PERFORMANCE OF YOUR MENDOTA GAS FIREPLACE. BE SURE THE GAS SUPPLIER OR PLUMBER CAREFULLY CHECKS FOR CORRECT GAS PRESSURE AND GAS LINE SIZING WHEN INSTALLING THE FIREPLACE.

IT IS CRITICAL TO CAREFULLY CHECK FOR GAS LEAKS WHEN HOOKING UP THE FIREPLACE -- CHECK WITH SOAP & WATER SOLUTION.

BE SURE TO INSTALL "APPROVED" FLEX GAS LINE WITH BRASS-TO-BRASS FITTINGS TO PREVENT GAS LEAKS AT CONNECTIONS.

GAS SUPPLY PIPING MUST INCLUDE A DRIP LEG TO ELIMINATE THE POSSIBILITY OF CONTAMINANTS ENTERING THE GAS TRAIN. ADHERE STRICTLY TO LOCAL AND NATIONAL CODES FOR ENTIRE INSTALLATION.

GAS SUPPLY LINE SIZING

The Mendota Gas Fireplace comes equipped with a 3/8" N.P.T. (1.0cm) inlet on the main gas valve. This may be removed if a 1/2" flexible connector is used. Gas supply piping can enter the Fireplace cabinet from either the left or right side.

Install an approved individual shut-off valve in supply line to the fireplace. 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 test pressures in excess of 1/2 PSIG (3.5 kPa).

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).

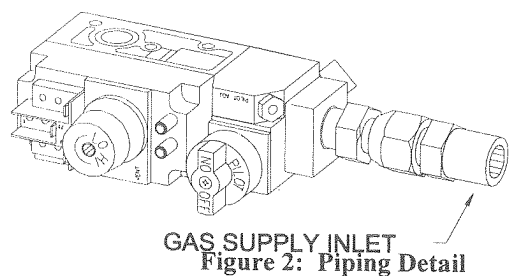
The proper gas line diameter must be selected to run from the supply regulator to the Fireplace. Refer to the following table for proper gas pipe diameters. Strictly adhere to the correct pipe sizes.

PIPE LENGTH (FEET)	SCHEDULE 40 PIPE INSIDE DIA.		TUBING, TYPE L OUTSIDE DIA.	
	NAT.	L.P.	NAT.	L.P.
0-10	1/2" (1.3 cm)	3/8" (1.0 cm)	1/2" (1.3 cm)	3/8" (1.0 cm)
10-40	1/2" (1.3 cm)	1/2" (1.3 cm)	5/8" (1.6 cm)	1/2" (1.3 cm)
40-100	1/2" (1.3 cm)	1/2" (1.3 cm)	3/4" (2.0 cm)	1/2" (1.3 cm)
100-150	3/4" (2.0 cm)	1/2" (1.3 cm)	7/8" (2.3 cm)	5/8" (1.6 cm)
150-200	3/4" (2.0 cm)	1/2" (1.3 cm)	7/8" (2.3 cm)	3/4" (2.0 cm)

NOTE: Some areas allow copper tubing or galvanized pipe - check with local approval agencies and codes. NEVER use plastic pipe.

GAS PRESSURE CHECKING REQUIREMENTS

Inlet and manifold gas pressure checking taps are located on gas valve (see Figure 3 pg. 9). A qualified installer should use these fittings for setting the correct gas pressure during initial installation.



NOTE: DO NOT DAMAGE OR KINK THE FLEX CONNECTOR. CHECK FOR GAS LEAKS WITH SOAP AND WATER SOLUTION.

NOTE: 3/8" FLEX OR RIGID PIPING MAY BE USED TO CONNECT GAS SUPPLY TO UNIT DEPENDING ON STATE AND LOCAL CODES.

NOTE: BE SURE TO INSTALL FLEX GAS HOSE WITH BRASS-TO-BRASS FITTINGS TO PREVENT LEAKS AT CONNECTION.

NOTE: THE HARD PLUMBING FITTING (Figure 3 pg. 9) IS TO BE USED WITH INSTALLATIONS REQUIRING HARD PLUMBING. IT MAY BE REMOVED IF THE FIREPLACE IS BEING INSTALLED WITH A FLEXIBLE CONNECTOR.

GAS PRESSURE REQUIREMENTS

A MAJOR CAUSE OF OPERATING PROBLEMS WITH GAS APPLIANCES CAN BE IMPROPER GAS PRESSURE!

Such problems as changes in flame color or configuration, gas pilot or burner outages, intermittent operation, changes in heat output, excessive burner noise, etc. are nearly always the result of changes in gas pressure or improper gas pressure at the time of the installation. The most important item to check during the installation and the first thing to check when problems occur is gas pressure!

Gas supplies normally enter a residence at 1/2 PSI (13" - 15" W.C.) (3. KPA). A regulator is then placed inside the residence which drops this pressure to 7" W.C. (1.8 KPA) (Nat. Gas). This "inches to inches" regulator is of adequate capacity to service the gas appliances (such as dryer, furnace, etc.). If this regulator's capacity is not sufficient to add the Gas Fireplace, an additional "inches to inches" regulator must be installed for the Fireplace. **EXCEPTION:** Some codes allow 2 PSI (1.4KPA) supplies to enter the residence, in which case "pounds to inches" regulators are used.

The following table provides information on correct gas pressure requirements. Be sure your gas supplier or plumber carefully follows this table.

GAS PRESSURE REQUIREMENTS

	DESIRED INLET PRESSURE	MINIMUM INLET PRESSURE	MAXIMUM INLET PRESSURE	MANIFOLD OUTLET PRESSURE	AIR SHUTTER POSITION*
NATURAL GAS	7.0" W.C. (1.75 kPa)	5.0" W.C. (1.12 kPa)	11" W.C. (2.61 kPa)	3.5" W.C. (0.87 kPa)	1/8 - 1/4 " OPEN (7 mm)
L.P. GAS	11.0" W.C. (2.75 kPa)	11" W.C. (2.75 kPa)	13.0" W.C. (3.24 kPa)	10.0" W.C. (2.5 kPa)	1/2" OPEN (14 mm)

TURN GAS VALVE KNOB TO "HIGH" POSITION. GAS PRESSURES MAY VARY PLUS OR MINUS 5%.

*NOTE: FOR HIGH ALTITUDE (ABOVE 5,000 FEET) SOME VARIATIONS IN AIR SHUTTER SETTINGS MAY BE REQUIRED.

Manifold pressure must be taken at the outlet ("MANIFOLD") tap and inlet pressure at the "INLET" tap **with the burner operating** by a qualified installer (see Figure 3: Pressure Test Port).

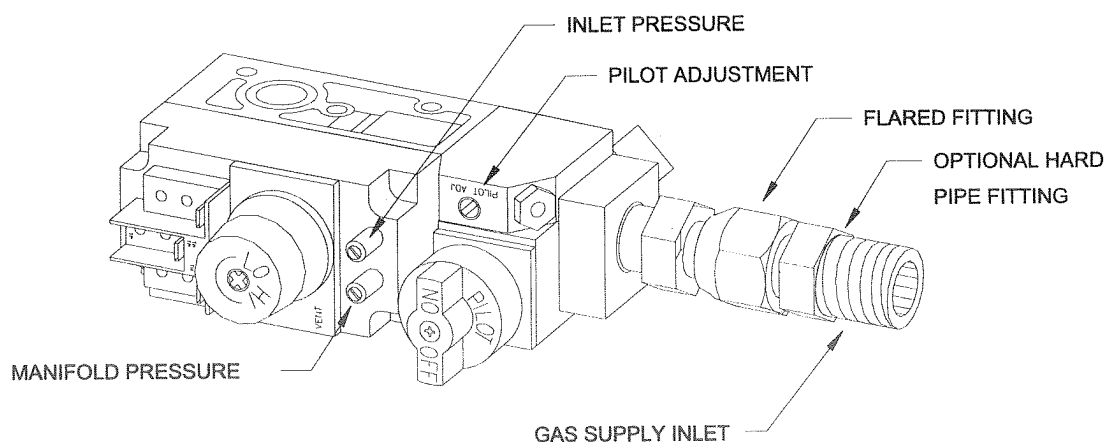


Figure 3: Pressure Test Port

EXTERIOR VENT LOCATIONS AND RESTRICTIONS

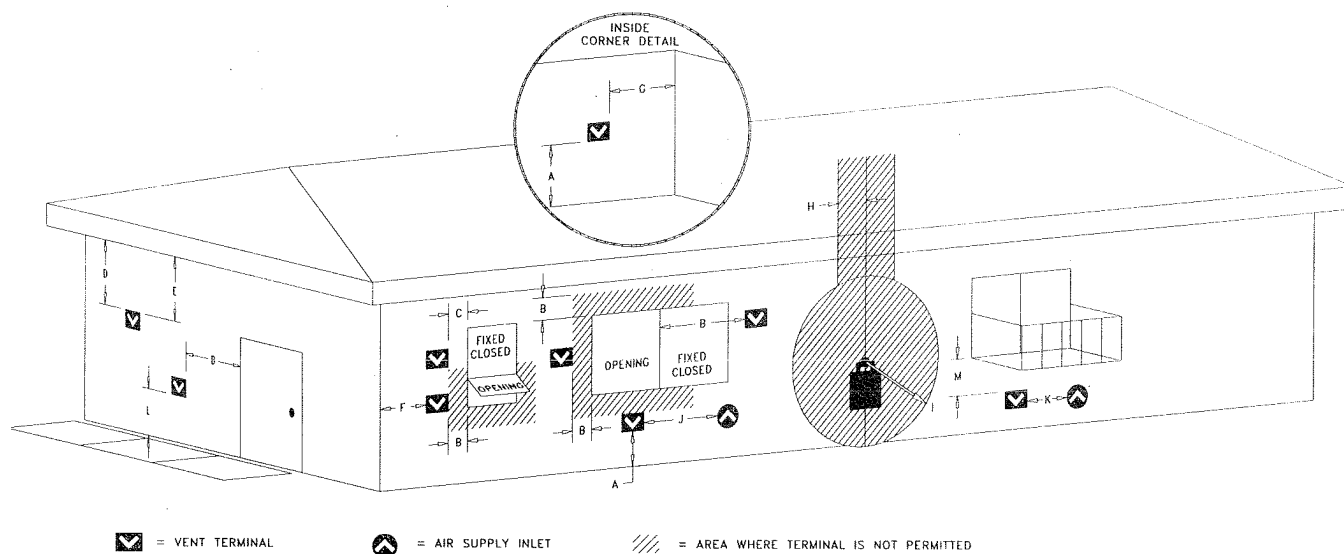


Figure 4: Exterior Vent Locations

✓ - Vent Terminal

⬆ - Air Supply Inlet

≡ - Area where terminal is not permitted

A =	Clearance above grade, veranda, porch, deck, or balcony (*12 inches (30 cm) minimum)	H =	*Not to be installed above a meter/regulator assembly within 3 feet (90 cm) horizontally from the center-line of the regulator
B =	Clearance to window or door that may be opened (*12 inches (30 cm) minimum.	I =	Clearance to service regulator vent outlet (*6 feet (1.8m) minimum)
C =	Clearance to permanently closed window (minimum 12 inches (30 cm) recommended to prevent condensation on window)	J =	Clearance to non-mechanical air supply inlet to building or the combustion air inlet to any other appliance. (*12 inches (30 cm) minimum.
D =	Vertical clearance to ventilated soffit located above the terminal within a horizontal distance of 2 feet (60 cm) from the center-line of the terminal (18 inches (46 cm) minimum)	K =	Clearance to a mechanical air supply inlet (*6 feet (1.8 m) minimum)
E =	Clearance to unventilated soffit (12 inches (30 cm) minimum)	L =	† Clearance above paved side-walk or a paved driveway located on public property (*7 feet (2.1 m) minimum)
F =	Clearance to outside corner - 6 inches (15 cm)	M =	Clearance under veranda, porch, deck, or balcony (*12 inches (30 cm) minimum ‡)
G =	Clearance to inside corner - 12 inches (30 cm)		

† A vent shall not terminate directly above a side-walk or paved driveway which is located between two single family dwellings and serves both dwellings.

‡ Only permitted if veranda, porch, deck, or balcony, is fully open on a minimum of two sides beneath the floor.

* As specified in CGA B1:19 Installation Codes (1991). Note: Local codes or regulations may require different clearances.

FLUE VENTING INSTRUCTIONS

The Mendota Fireplace must be vented using the Mendota/DuraVent venting system. All warranties will be voided and serious fire, health or other safety hazards may result from any of the following actions: Installation by unauthorized personnel; installation of any damaged component; unauthorized modification of vent system; installation of any components not manufactured or approved by Simpson DuraVent and Mendota; failure to meet all clearance requirements; failure to properly twist-lock all components. Consult local building codes before beginning the installation.

WARNING

Always maintain required clearances (air spaces) to combustibles to prevent a fire hazard. Do not fill air spaces with insulation. Check installation instructions for minimum clearance requirements between the outer walls of the vent pipe and nearby combustible surfaces. Be sure to check the vent termination clearance requirements from decks, windows, soffits, gas regulators, air supply inlets, and public walkways, as specified in these installation instructions and local building codes. **SAFETY PRECAUTIONS FOR THE INSTALLER:** 1) Wear gloves and safety glasses for protection; 2) Exercise extreme caution when using ladders or on roof tops; and 3) Be aware of electrical wiring locations in walls and ceilings.

The gas appliance and vent system must be vented directly to the outside of the building, and never attached to a chimney serving separate solid fuel or gas burner appliance. Each direct vent gas appliance must have its own separate vent system. Common vent systems are prohibited.

To assure proper venting performance of the high-performance Mendota Direct Vent Fireplaces and Stoves, it is critical that the DuraVent GS vent pipe sections are sealed tightly and leak-proof. This means that all pipe sections must be carefully rotated into the fully "twist-locked" position.

WE STRONGLY RECOMMEND THAT FIXED LENGTH PIPE SECTIONS BE USED IN PLACE OF TELESCOPING SECTIONS WHENEVER POSSIBLE.

If adjustable -- telescoping -- pipe sections must be used, HEAT SAFE 2000° SILICATE STOVE MASONRY SEALANT must be used on the inner pipe joints.

COMPONENT "TWIST-LOCK" CONNECTION PROCEDURE

DuraVent pipe and fittings are designed with special twist-lock connections. Twist-lock procedure is as follows: four (4) indentations, located on the female ends of pipes and fittings are designed to slide straight in to the male ends of the adjacent pipes and fittings, by orienting the four pipe indentations so that they match and slide into the four entry slots on the male ends (Figure 5).

Push the pipe sections completely together then twist-lock one section clockwise, approximately $\frac{1}{4}$ turn until the two sections are fully locked. The female locking lugs will not be visible from the outside on the black pipe or fittings. They may be located by examining inside of the female ends.

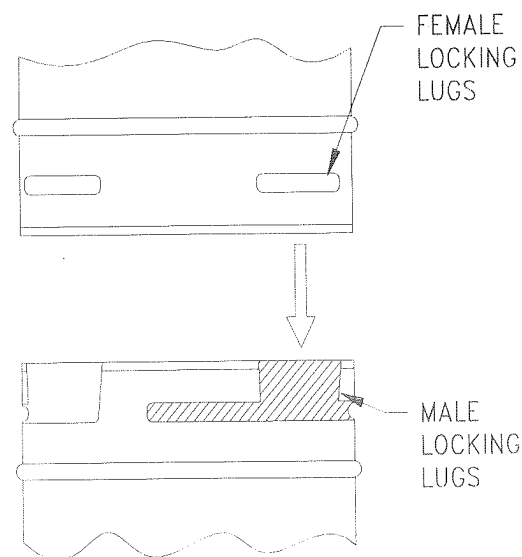
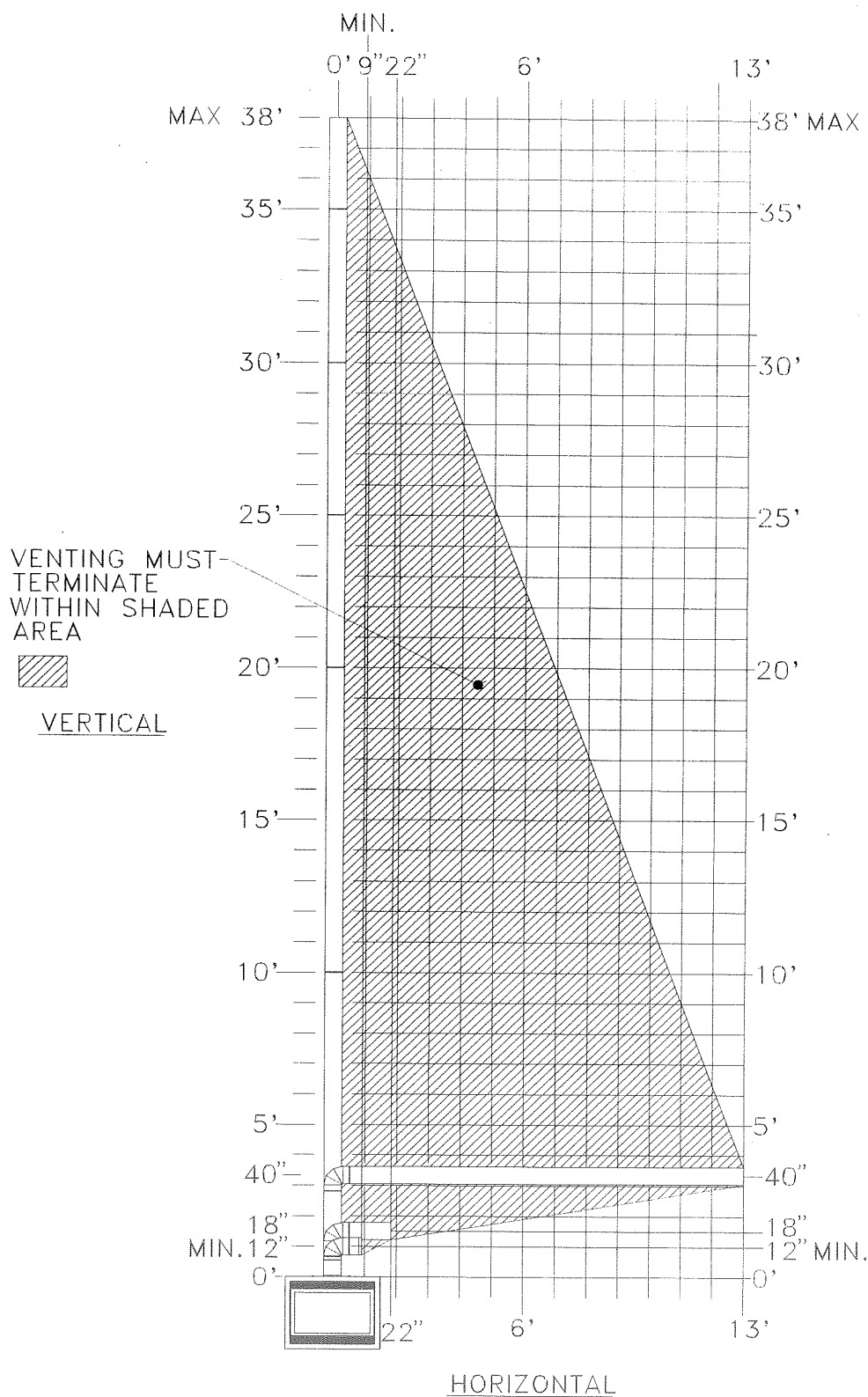


Figure 5: Twist-Lock Piping

FLUE VENTING REQUIREMENTS



**Figure 6: Minimum-Maximum
Horizontal Flex Vent Requirements**
(NOTE: Vertical runs have 35' max. Flex + Rigid Pipe)

FLUE VENTING COMPONENTS

ITEM	PART #	DESCRIPTION
1	45-01-00081	12" VENT STACK
1	45-01-00074	24" VENT STACK
1	45-01-00075	36" VENT STACK
1	45-01-00076	48" VENT STACK
2	45-01-00096	90° GALVANIZED ELBOW
3	45-01-00085	45° GALVANIZED ELBOW
4	45-01-00116	ADJUSTABLE WALL THIMBLE
5	45-01-00098	11 - 14" ADJUSTABLE PIPE
9	45-01-00083	ATTIC INSULATION SHIELD 12"
10	45-01-00078	ROOF FLASHING (0/12 TO 6/12)
10	45-01-00079	ROOF FLASHING (7/12 TO 12/12)
11	45-01-00077	STORM COLLAR
12	45-01-00069	VERTICAL VENT CAP
13	45-01-00084	SUPPORT BAND
14	45-01-00089	HORIZONTAL VENT CAP
15	45-01-00086	FIRESTOP SPACER

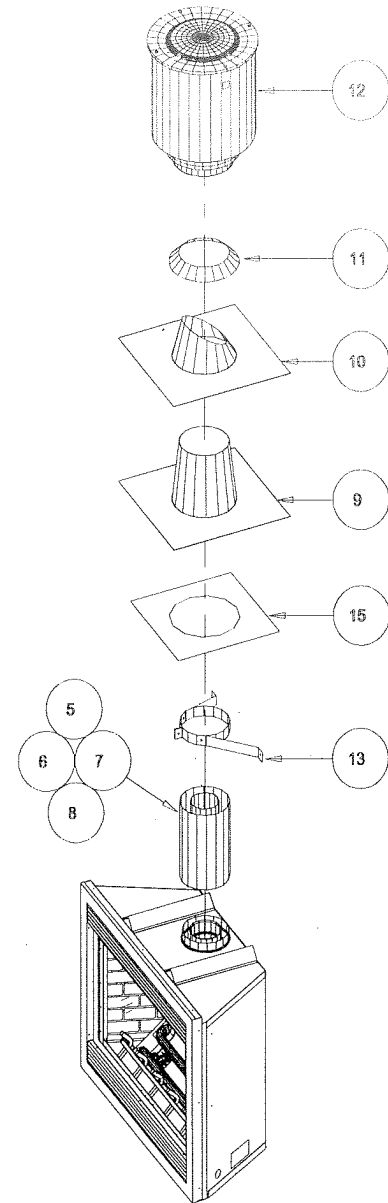
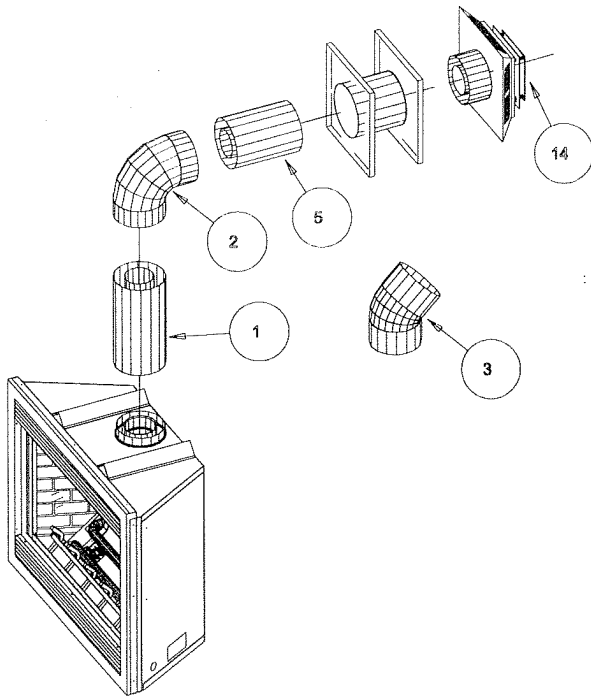


Figure 7: Flue Venting Components

A-1 MINIMUM RISE THROUGH-THE-WALL VENTING:

The minimum vertical rise for vent installation thru the wall is 12" from the top of the fireplace to the centerline of the 90° elbow. **NOTE: We recommend always using the most vertical rise the installation will allow. This maximizes efficiency and flame appearance. This is especially true for LP gas installations and for installations at higher altitudes.** Use "fixed" pipe sections in place of adjustable pipe sections wherever possible. If adjustable pipe sections must be used, 2000° sealant must be used on the inner pipe joints. Always maintain 1" clearances from vent pipe to combustibles, 2" above pipe on horizontal runs. Do not fill air spaces with insulation or other material.

For minimum height installations above 4,000 feet, 45° elbows must be used in place of 90° elbows.

NOTE: This requires 17½" minimum rough opening depth (see pg. 5). **CAUTION:** If 90° elbows must be used, a 3 foot vertical starter section must be used directly off the top of the fireplace

IMPORTANT: REFER TO DRAWINGS ON PAGES 12 & 13 WHILE FOLLOWING THESE INSTRUCTIONS.

The DXV-35 Fireplace must be installed by a qualified Mendota approved service person.

1. Position fireplace in desired location. See pg. 9 for guidelines on proper vent cap placement on the exterior of home. Check to determine if wall studs are in the way when venting system is attached. If this is the case, you may want to adjust the fireplace location.
2. Measure from the top of the fireplace up minimum (see Figure 1: Specifications & Clearances, pg. 5) and mark wall directly at the center of where the vent pipe will penetrate the wall.
3. Cut and frame a 10" x 10" opening in the wall. The hole must be positioned so the vent system will run level or have a ¼" rise AND be perpendicular to the wall. The height of the opening must be located to meet all local and national building codes and not allow the termination to be easily blocked or obstructed. If wall being penetrated is non-combustible material, i.e. masonry block, brick, etc., a 7-inch diameter hole is acceptable.
4. Assemble the components to the fireplace adapter with pipe seams oriented toward the wall or floor -- as much out of view as possible. Be sure all vent component connections are in their fully twist-locked position and are leak-proof. Be sure 2000° sealant is used on the inner pipe joints of all adjustable (telescoping) pipe sections.
5. The length of the horizontal piece that fits through the wall will be determined by the thickness of the wall. When installed, the end of the horizontal piece must be flush with the exterior wall of the home. There **MUST** be a minimum of 1" air space clearance to combustibles from all vent pieces (2" above horizontal runs).
6. **A wall thimble, part #45-01-00116 must always be used when penetrating combustible wall materials.**
NOTE: Combustible wall thickness must be 4" to 8" maximum.
7. From the exterior of the home, slide the horizontal vent cap over the end of the horizontal pipe and tightly secure the cap to the wall with screws. Seal with a high quality caulking.
NOTE: Venting terminal should not be recessed into wall or siding.

A-2. ELEVATED RISE THROUGH-THE-WALL VENTING

The required vertical rise is 40 in. when used with a maximum horizontal run of 13 ft. For other venting configurations within these maximum limits, see Figure 6, pg. 12.

NOTE: The horizontal run of vent pipe must be level or have a $\frac{1}{4}$ " rise for every 1' of run toward the termination. Never allow the vent to run downward. This will cause high temperatures and the possibility of a fire.

USING OFFSETS AND RETURNS: A single 90° vertical-to-horizontal elbow is already calculated into the allowable maximum 12' horizontal run. Each additional 90° elbow reduces the maximum horizontal distance by 3'. Example: by using three total 90° elbows the maximum horizontal distance has been reduced to 6 ft. ($3 - 1 = 2$ elbows $\times 3' = 6'$; 12' Max. - 6' of elbows = 6' of horizontal run). Note: 45° elbows reduce the maximum horizontal distance by $1\frac{1}{2}'$. Always maintain the proper rise (6' for each elbow used after the initial elbow) for the calculated total run when using elbows.

SUPPORT: Horizontal runs of pipe will require one vent support (part # 45-01-00084) for every 3 ft. of pipe.

CAUTION: If a vertical-to-horizontal elbow is enclosed within a wall, floor or ceiling, a top air space clearance of 3" must be maintained.

Be sure to maintain 1" air space clearances to any combustibles (2" above horizontal runs).

IMPORTANT: REFER TO DRAWINGS ON PAGES 12 & 13 WHILE FOLLOWING THESE INSTRUCTIONS.

The DXV-35 Fireplace must be installed by a qualified Mendota service person.

1. Position fireplace in desired location. See pg. 10 for guidelines on proper vent cap placement on exterior of home. Check to determine if wall studs are in the way when vent system is attached. If this is the case you may want to adjust the fireplace location.
2. Locate position where vent pipe will pass through any ceilings and will penetrate the outside wall. Since vent pipe sections "overlap" we suggest preassembling and measuring the total vent pipe run so you can more accurately locate the point where the vent pipe will penetrate the outside wall (See Figure 4: Exterior Vent Locations, pg. 10). Be sure all vent components are properly twist locked and leak-proof. Be sure 2000° sealant is used in the inner pipe joints of all adjustable pipe sections.
3. Cut and frame a 10" x 10" opening in the outside wall and in any ceiling openings. The outside wall hole must be positioned so the vent system will run level or have a $\frac{1}{4}$ " on rise AND be perpendicular to the wall. The height of the opening must be located to meet all local and national building codes and not allow the termination to be easily blocked or obstructed. A ceiling firestop spacer (part # 45-01-00086) is required at any floor (ceiling) opening.
4. Connect vent pipe to the fireplace adapter on top of fireplace vent outlet.
5. The horizontal pipe must end flush with the exterior wall of the home. Horizontal pipe will require a proper support (part # 45-01-00084) every 3 ft. of vent pipe. **THERE MUST BE A MINIMUM OF 1" CLEARANCE TO COMBUSTIBLES FROM ALL VENT PIECES** (2" above horizontal runs).
6. **A wall thimble, part #45-01-00116 must always be used when penetrating combustible wall materials.**
NOTE: Combustible wall thickness must be 4" to 8" maximum.
7. From the exterior of the home, slide the horizontal vent cap over the end of the horizontal pipe and tightly secure the vent cap to the wall with screws. Seal with high quality caulking.
NOTE: Venting terminal should not be recessed into wall or siding.

B - 1 VERTICAL THROUGH-THE-ROOF VENTING

The maximum vertical run of vent pipe is 38 ft. from the top of the fireplace. The fireplace will support a run of a maximum of 38 ft. Maintain 1" air space clearances on all sides of vents (2" above horizontal runs).

IMPORTANT: REFER TO DRAWINGS ON PAGES 12 & 13 WHILE FOLLOWING THESE INSTRUCTIONS.

The DXV-35 Fireplace must be installed by a qualified Mendota approved service person.

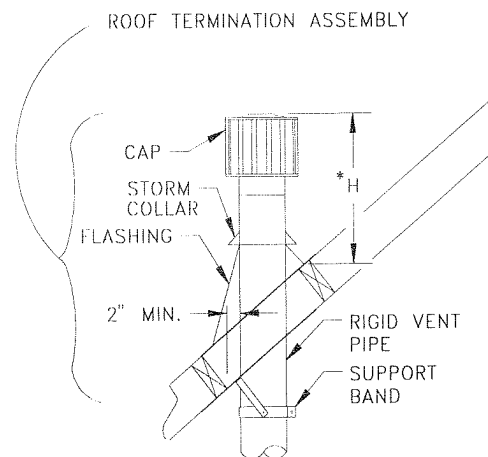
1. Place the fireplace in its desired location. Drop a plum bob from the ceiling to the position of the fireplace flue exit. Mark the location where the vent will penetrate the ceiling. Drill a small hole at this point. Next, drop a plum bob from the roof to the hole previously drilled in the ceiling. Mark and drill the spot where the vent will penetrate the roof. Determine if ceiling joists, roof rafters or other framing will obstruct the venting system. You may wish to relocate the fireplace or to offset, to avoid cutting load bearing members.
2. Cut and frame a 10" x 10" opening in the ceiling centered on the hole drilled in No. 1.
3. To determine the length of the vent pipe required, measure the distance from the fireplace flue outlet to the ceiling, the ceiling thickness, the vertical rise in the attic or second story and allow sufficient vent height above roof line. For two story installations, firestops are required at each floor level. If an offset is needed in the attic, additional pipe and elbows will be required.
4. Assemble the desired lengths of vent pipe and elbows to reach from the fireplace flue outlet. Ensure that all vent pipe and elbow connections are in their fully twist-lock position and are leak-proof. Maintain 1" airspace clearances to combustibles (2" above horizontal runs).
5. Cut a 10" x 10" opening in the roof, centered in the small drilled hole placed in the roof in No. 1. The opening should be a sufficient size to meet all clearance requirements. Continue to assemble lengths of pipe and elbows necessary to reach up through the roof line. Galvanized pipe and elbows may be utilized in the attic, as well as above the roof line. The galvanized finish is desirable above the roof line due to its higher corrosive resistance.

- a) If an offset is necessary, it is important to support the vent pipe every 3 ft. to avoid excessive stress on the elbows and possible separation. Wall straps are available for this purpose.
 - b) Whenever possible, use 45° elbows instead of 90° elbows. The 45° elbow offers less restriction to the flow of flue gases and intake air. If a 90° elbow is necessary there must be a minimum of one pipe section rise from the 90° elbow to the vent cap or to the next offset. A maximum of two 90° elbows are allowed per installation.
6. Slip the flashing over the pipe sections protruding through the roof. Secure the base of the flashing to the roof with roofing nails and seal flashing to roof. Ensure the roofing material overlaps the top edge of the flashing. Verify you have at least the minimum clearance to combustibles at the roof line.
7. Continue to add pipe sections until the pipe and the vent cap meet the minimum building code requirements, as outlined in No. 8 on the following page.

- a) For multi-story vertical installation, a ceiling firestop (part # 45-01-00084) is required at the second floor and any subsequent floors. The opening should be framed to 10" x 10" inside dimensions as described in step No. 5.
 - b) Any occupied areas above the first floor, including closets and storage spaces, which the vertical vent passes through, must be enclosed. The enclosure may be framed and sheet rocked with standard construction materials, however, be sure to maintain minimum allowable clearances between the outside of the vent pipe and the combustible surfaces of the enclosure.

8. Height "*H" of top of vent cap can be determined as follows:

ROOF PITCH	"H" DIMENSION	
	FEET	METERS
FLAT to 6/12	1	.3
7/12 to 9/12	2	.6
10/12 to 12/12	4	1.2
13/12 to 16/12	6	1.8
17/12 to 21/12	8	2.4



9. Complete installation with storm collar (part #953) and vent cap (part # 983).

The following Check Off Lists must be completed prior to final operation of the Fireplace, or manufacturer's warranty and liabilities will be voided:

INSTALLATION CHECK OFF LIST

- ☐ Co-axial vent rigid pipe, wall vent cap or roof vent cap must be installed by a Mendota approved person in accordance with instructions. All joints must be secured, "twist-locked" and leak-proof. 2000°F. sealant must be used on the inner pipe joints of all adjustable pipe sections.
- ☐ Horizontal or vertical vent cap must be installed "**right-side-up**" and tightly sealed to structure per instructions. Vent Caps must be Mendota approved.
- ☐ Proper exterior and interior clearances for vent systems and locations for wall vent cap/roof vent cap must be maintained (See pgs. 9-16).
- ☐ Carefully check for correct gas pressure, proper size gas lines (see pgs. 7 & 8) and for gas leaks.
- ☐ 115 V electrical service and gas supply must be installed in accordance with instructions and local and national codes.

LIGHTING CHECK OFF LIST

- ☐ All items on "Installation Check Off List" (see above) must be completed.
- ☐ Connect thermostat to terminal panel next to gas valve per instructions on pg. 23.
- ☐ System millivolt readings (see pg. 29) must be taken by a qualified installer. CAUTION: Pilot flame must register a minimum of 250 millivolts.
- ☐ Check air shutter opening - 1/8" to 1/4" Nat. gas or 1/2" LP gas (see pg. 24).
- ☐ Carefully follow all Lighting and Log Installation Instructions.
- ☐ Make certain that burner lights immediately and flame runs promptly around "curve" in burner and lights entire burner. DO NOT proceed with operation unless burner cycles "on/off" without delays.
- ☐ Make certain that the flame is "stable" and does not "lift" off burner. If flame lifts off burner, turn unit off and check that all vent pipes are "twist locked" and leak proof, the vent cap is "right side up" and that 2000° Sealant has been used on the inner pipe joints of all adjustable pipe sections.
DO NOT proceed with operation if flame is "lifting off" burner.
- ☐ Make certain glass door is in properly closed position and "centered" in firebox opening (see No. 9, pg. 18 & pg. 19).

LIGHTING INSTRUCTIONS

IMPORTANT: Be sure all items on "INSTALLATION CHECK OFF LIST" (pg. 17) have been completed!

CAUTION: If the pilot goes out, be sure to wait a minimum of five minutes before relighting - be sure to always remove the glass before relighting the pilot.

1. ALWAYS LIGHT PILOT WITH GLASS REMOVED! (See drawing, pg. 19 for glass door removal).

2. Make sure any gas supply shut-off cocks are open and Thermostat is "OFF".

3. Push in Gas Cock Dial Slightly and turn clockwise to "OFF". NOTE: Dial cannot be turned from "PILOT" to "OFF" unless dial is pushed slightly. **DO NOT FORCE!**

4. Wait five (5) minutes to allow gas which may have accumulated in main burner compartment to escape. If you smell gas STOP.

5. Turn Gas Cock Dial Counterclockwise to "PILOT" position (see Figure 8: Gas Valve).

6. Depress Gas Cock Dial and push in red Piezo igniter button. Once pilot ignites, continue depressing dial for about 1/2 minute. If pilot does not remain ignited, repeat operation allowing a longer period before releasing Gas Dial.

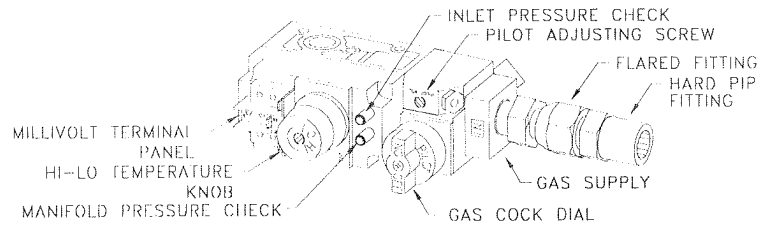


Figure 8: Gas Valve

IMPORTANT: After pilot is lit, system millivolt readings and gas pressure should be taken by qualified installer. Pilot flame must register a minimum of 250 millivolts (See pg. 29).

7. After pilot is lit and before installing logs, turn Gas Dial to "ON" and "cycle" the burner on/off to make certain it ignites promptly and that the flame runs smoothly around burner curve and promptly lights entire burner.

8. With pilot operating, install log module and coals (see pg. 20). With logs/coals in place, "cycle" the burner again to make sure of prompt ignition of burner and that the flame runs smoothly around entire burner and does not "lift off" burner. **NOTE:** Logs will produce a strong, acrid odor on initial contact with flames (about 2 hrs.).

9. Reinstall glass front & screen by "hanging" slots on upper edge of door over tabs on upper edge of firebox opening. Then "swing in" lower edge of door. Carefully pull out the two (2) Spring Loaded Door Holding Bars located under the door frame. Raise Bars and fit Bars firmly into Bar Holding Brackets on door frame (see instructions, pg. 19).

NOTE: Be sure door frame is "centered" in firebox opening. To "center": Release Door Holding Bars, with door "hanging" in upper slots "slide" door frame (within the slots) to center of firebox. Replace Door Holding Bars.

10. Turn Gas Dial counterclockwise to "ON" then set Thermostat or push Remote Control to turn on burner.

11. Main burner should now light IMMEDIATELY and flame should not "lift" off burner. If there is any delay in ignition or if flame is "lifting off" burner, turn off burner and carefully check for proper installation of logs/coals, vent system and proper pilot flame impingement on burner and thermopile. Logs or coals must not block pilot flame or main burner flame. Vent system must be leak proof.

DO NOT PROCEED WITH OPERATION UNLESS BURNER "CYCLES" ON/OFF WITHOUT DELAYS!

12. To reduce heat output, turn Hi/Lo Knob counterclockwise to desired temperature (see Figure 8: Gas Valve). Heat output can be reduced by up to 11,000 BTUH (1/3). Blower can also be turned down.

NEVER "over fire" by increasing BTUH above nameplate specifications.

NEVER turn down (reduce) pilot flame below the minimum 250 millivolts.

13. Open windows for first two hours of operation.

NOTICE: Initial start-up will cause some NON-TOXIC "off gassing" of adhesives, binders, paint, etc. Most nuisance odors will be eliminated after the first 2 hrs. of operation, however, slight amounts may be present during the first 24 hrs.

SHUT DOWN PROCEDURE:

1. Turn Remote Control or Thermostat to "OFF". Pilot will remain lit for return to normal service.
2. For complete shutdown turn Gas Cock Dial (see Figure 8: Gas Valve) to "OFF".

DXV DOOR OPERATION

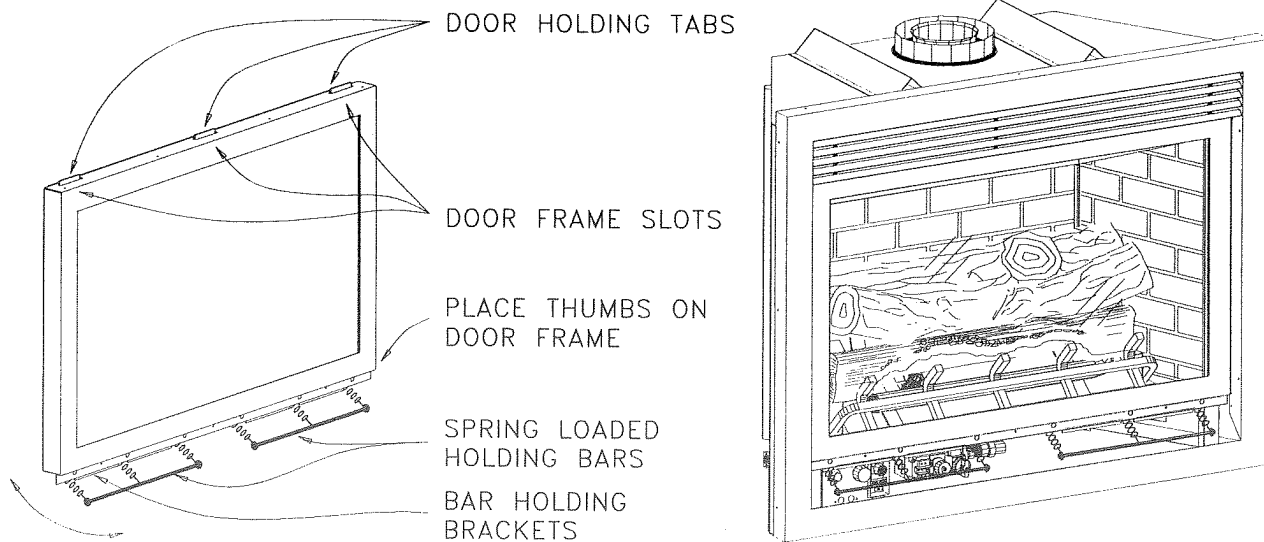
TO REMOVE FLAT GLASS DOOR

1. Place both thumbs on lower door frame directly above Spring Loaded Door Holding Bar.
2. Reach fingers under Bar and pull Bar straight out from Fireplace front.
3. Pull Bar down and move Bar inward until Bar clears door frame - then release.
4. Repeat procedure for opposite Holding Bar.
5. Carefully lift door straight up until door frame "clears" the 3 Door Holding Tabs on top of firebox.
6. Pull door directly out from firebox front.

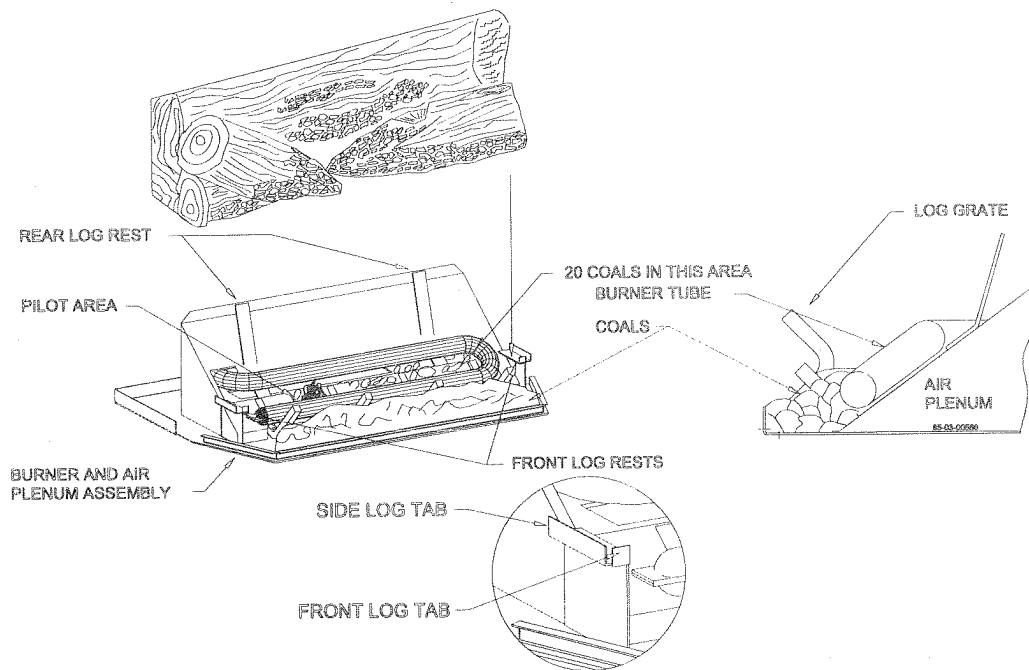
TO REPLACE FLAT GLASS DOOR

1. Center door in firebox opening. Move door inward until the 3 slots on door frame are directly above the 3 Door Holding Tabs on firebox top.
2. Lower door so the 3 Tabs on firebox top fit through the 3 slots on the door frame (i.e. "Hang" door on the 3 Tabs).
3. "Swing in" the lower edge of door until it touches lower firebox front.
4. Pull Holding Bar down and outward (away from Fireplace) until it clears door frame.
5. Raise Bar until it fits securely in Bar Holding Brackets on door frame.
6. Repeat procedure for opposite Holding Bar.

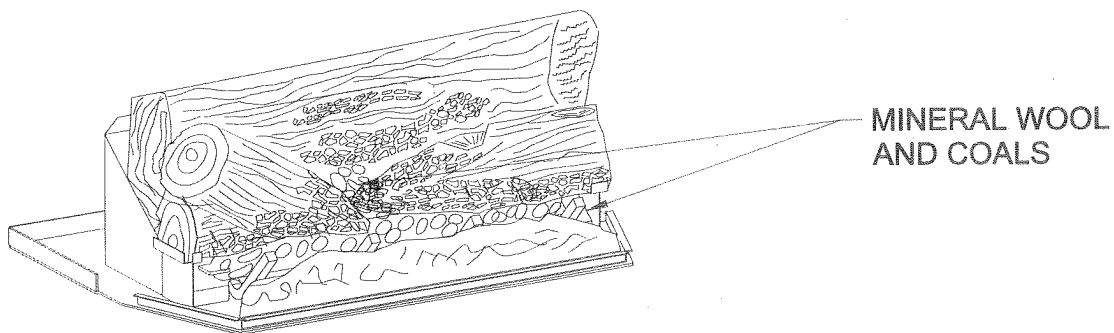
CAUTION: Holding Bars MUST be "level" and securely in place on Bar Holding Brackets holding glass door TIGHTLY against firebox front.



RANDOM LOG INSTALLATION



1. Before placing log assembly in firebox, fill space under Log Grate with with coals.
2. Place additional coals on Log Grate horizontal bar - against front burner. Edge of coals should be against, but not covering front burner flame holes.
3. Place approximately 20 coals between burner tubes on right side of pilot.

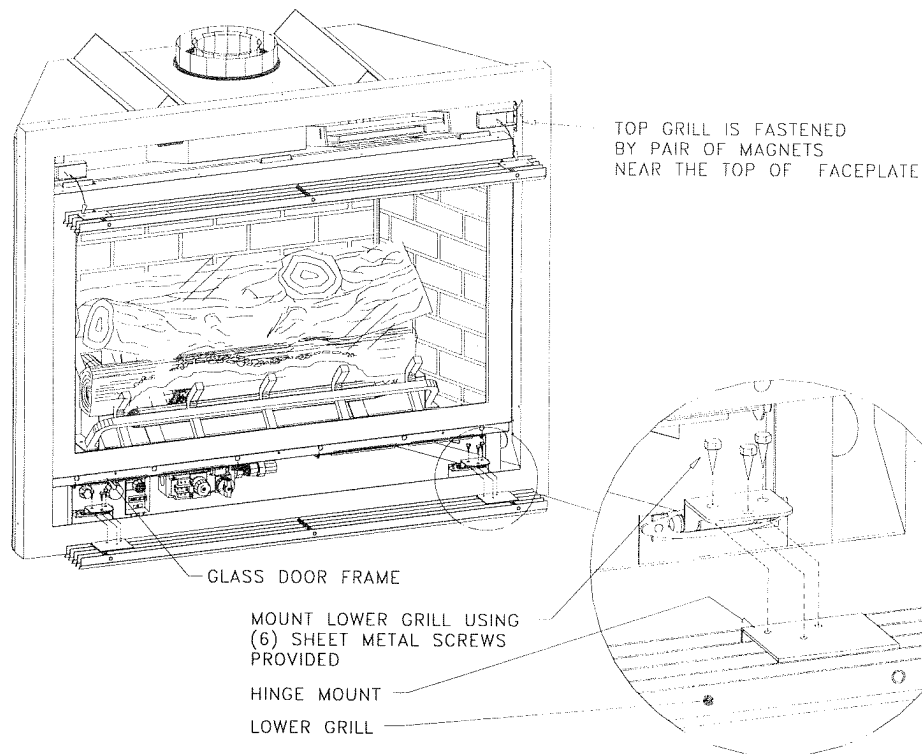


4. Carefully unpack one piece log assembly and center on log rest, between Side Log Tabs. Pull log assembly so that front edge is against front log tab.
5. Place glowing embers (wool) sparsely on top coals, in front of front log. Additional wool may be rubbed on front surfaces of log for additional glow. Add wool to "burned out" space between front logs. Fill area to back burner.

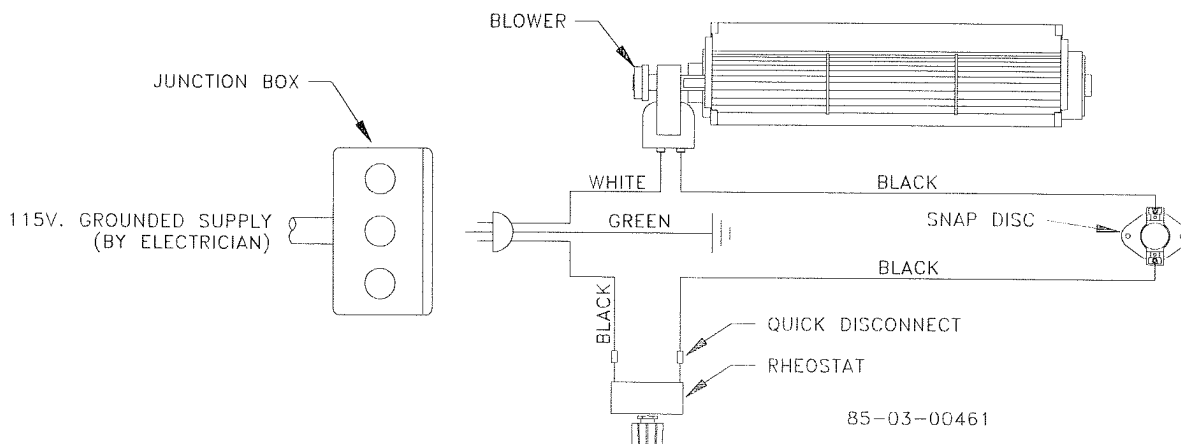
Note: Do not block holes with excessive wool, or delayed ignition and sooting can occur.

6. With glass removed, light pilot, and check for smooth ignition.
7. Reinstall door, and check for smooth ignition. If any delay occurs, make sure that no coals or wool is blocking pilot from from or rear burner holes.

MENDOTA GRILL INSTALLATION



BLOWER WIRING DIAGRAM



WARNING: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

BLOWER OPERATION

The Mendota DXV Fireplace is designed so the blower operates at all times the fireplace is operating. The blower output can be regulated with the rheostat (included), but it must be "on" at all times the burner is "on". NOTE: There will be a time delay in blower operation during "heat-up" (approx. ½ hour) and extended blower operation during "cool-down" of unit. (approx. ½ hour). NOTE: Power supply to blower must be continuous. DO NOT use switch or variable control in power supplied to fireplace.

THERMOSTAT OR REMOTE CONTROL OPERATION

The Fireplace comes with a wall thermostat. The thermostat should be placed in the same room as the fireplace, approx. 4-5 ft. off the floor (out of reach of children). Do Not place thermostat near the fireplace.

CAUTION: BURNER SHOULD LIGHT IMMEDIATELY AFTER TURNING THERMOSTAT "ON". IF BURNER DOES NOT COME ON IMMEDIATELY TURN THE THERMOSTAT OFF AND WAIT 60 SECONDS BEFORE TURNING ON AGAIN. IF BURNER DOES NOT COME ON IMMEDIATELY AFTER SECOND TRY RECHECK COMPLETE INSTALLATION OF LOGS, PILOT, VENT SYSTEM, ETC. TO INSURE PROPER PILOT FLAME IMPINGEMENT ON THE THERMOPILE, LOG AND COALS POSITIONING AND PROMPT BURNER IGNITION. DO NOT OPERATE FIREPLACE IF BURNER DOES NOT LIGHT IMMEDIATELY.

NEVER TURN BURNER ON & OFF "QUICKLY" - ALWAYS WAIT 60 SECONDS!

When using remote control be sure to hold in button firmly until unit lights. DO NOT push button and release quickly before burner lights. Burner should light IMMEDIATELY and then button can be released. If unit does not light immediately release button, wait 60 seconds and repeat lighting procedure. If burner does not come on immediately after second try recheck complete installation. If necessary, contact your Mendota dealer.

NOTE: If thermostat is located over 25 ft. from fireplace the pilot flame may need to be increased up to 450 millivolts.

Use two-wire, copper lead wire per chart below and install as follows:

NOTE: *Thermostat Must Be 250-750 Millivolt Rated*

RECOMMENDED MAXIMUM LEAD LENGTH (TWO-WIRE) WHEN USING WALL THERMOSTAT (CP-2 SYSTEM)	
WIRE SIZE	MAX. LENGTH
14 GA.	100 FT.
16 GA.	64 FT.
18 GA.	40 FT.
20 GA.	25 FT.
22 GA.	18 FT.

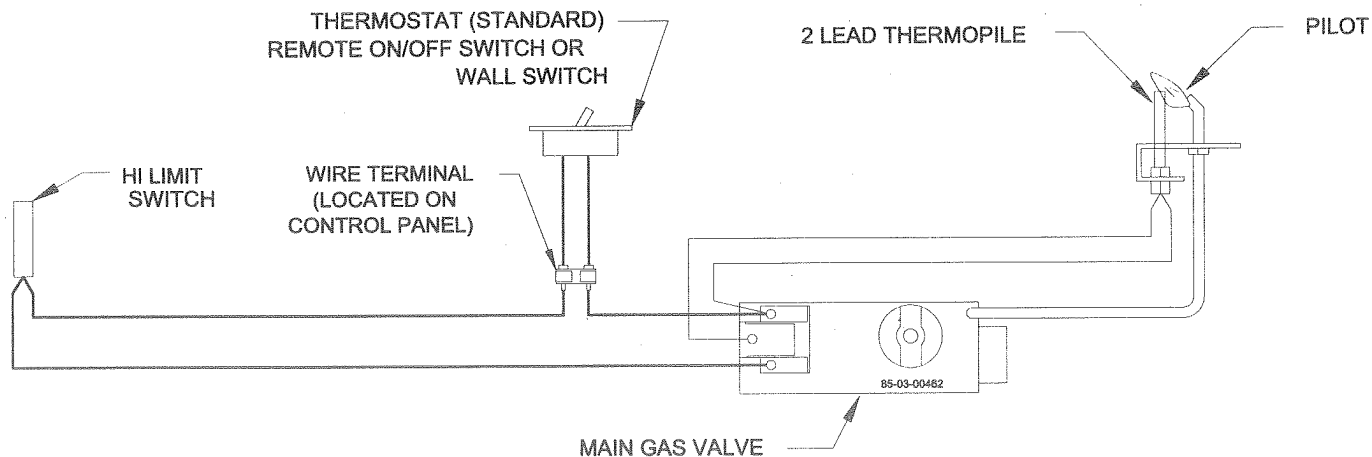


Figure 9: Thermostat Wiring

NOTE: Thermostat must be 250-750 millivolt rated.

CAUTION: THIS CONTROL IS A MILLIVOLT SYSTEM. NO ADDITIONAL POWER SUPPLY CAN OR SHOULD BE USED.

"Label Representation"

LABEL

WARNOCK
HERSEY
GAS LOGO

LISTED GAS-FIRED DIRECT VENT
WALL FURNACE
MODEL: DXV 35

Also for use in mobile (manufactured) homes after first sale of home.
Tested to ANSI Z21.44-1995

WARNING: Improper installation, adjustment, alteration, service or maintenance can cause property damage, personal injury, or loss of life. Refer to the owner's information manual provided with this appliance. Installation and service must be performed by a qualified installer, service agency or the gas supplier. Use only glass assemblies certified for use with this appliance. Do not operate with glass panel(s) removed, cracked, or broken.

NOT FOR USE WITH SOLID FUEL

	NATURAL GAS	PROPANE GAS
Input Rating (Btu/hr) 0-610 m	33,000	21,000
Orifice (DMS) 0-610 m	32	50
Manifold Pressure (in w.c.)	3.5	10.0
Manifold Pressure, low (in w.c.)	1.7	3.6
Minimum Inlet Pressure (in w.c.)	5.0	11.0

This appliance is equipped for installation at 0-610 meters. This appliance must be installed in accordance with local codes if any; If not, follow ANSI Z223.1. Mobile (Mfd.) home installations must adhere to Title 24 CFR, Part 3280.

MINIMUM CLEARANCES FROM COMBUSTIBLE CONSTRUCTION			
Unit to floor	0 in.	Unit to enclosure sidewalls	0 in.
Unit to enclosure sidewall	0 in.	Unit top to ceiling	18 in.
Vent to enclosed	1 in.	Wall Pass-Through to framing	1 in.
Vent to adjacent sidewall	10 in.	Mantle above discharge air opening	14 in.

CAUTION: Hot while in operation. Do not touch. Keep children, clothing, furniture, and flammable liquids or vapors away.

Electrical Rating (Courant nominal): 120 volts 60 Hz Less than 1 Ampere

JOHNSON GAS APPLIANCE
CEDAR RAPIDS, IOWA
DO NOT REMOVE OR COVER THIS LABEL

WH# _____

TROUBLE SHOOTING MENDOTA GAS DXV FIREPLACE

SYMPTOM	PROBABLE CAUSES	CORRECTIVE ACTION
1. Thin black coating (soot) forms on viewing glass.	A. Incorrect gas pressure B. Not enough combustion air	Have gas supplier check for correct gas pressure (7" W.C. Nat. Gas; 11" W.C. LP Gas). If sooting continues open air shutter on burner (see "Gas Flame Adjustment" below). If sooting still continues, shut off unit and call Mendota service person. NOTE: To clean glass - remove glass and wipe glass with cloth or paper towel.
2. Humming or whistling coming from Fireplace.	A. Normal operating noise. (See "Quiet Operation" pg. 27)	Some noise is normal. It is caused by the gas supply flowing through the gas orifice. It is expected from any gas fireplace. The noise can be reduced by turning the Hi/Lo Knob on the control. Turning down the flame will reduce the heat output of the unit.
3. A change in flame appearance or burner operation.	A. A change in gas pressure. B. Carbon dirt or lint.	Have your gas supplier check for correct gas 7" W.C. Nat. Gas; 11" W.C. LP Gas). If flame still needs adjustment see "Flame Adjustment" below. Clean out carbon, spider webs, lint, etc. from shutter area. Logs and burner. NEVER BLOCK AIR INTAKE OR OUTLET VENTS.

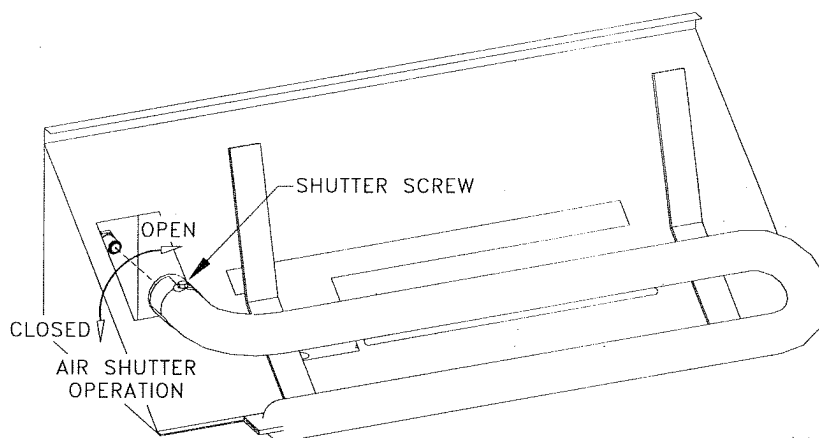


Figure 10: Air Shutter

MAIN BURNER GAS FLAME ADJUSTMENT

During initial installation the burner should be removed by qualified person and the air shutter opening checked to be certain that the shutter is set correctly at **1/8" to 1/4" open for Natural gas and 1/2" minimum open for L.P. gas.**
NOTE: For altitudes above 5,000 ft. some variations may be required.

Be sure burner and logs are properly installed (see pg. 20). After burner has been properly installed and operated for 2-3 hours, small additional adjustments to the air shutter may be necessary for final flame appearance. These small shutter adjustments can be made by the following procedure:

NOTE: Very small changes in shutter settings make major changes in flame appearance.

1. Air shutter is located at left end burner section.
2. Loosen air shutter screw.
3. If flame is too "blue" slowly rotate shutter counter clockwise (close) in small 1/16" increments until desired realistic "orange" flame is obtained.
4. If flame is too "orange" or is causing sooting on viewing glass rotate shutter clockwise (open) in approx. 1/16" increments until sooting stops. **IF SOOTING DOES NOT STOP, TURN OFF UNIT AND CALL YOUR MENDOTA SERVICE PERSON.**

IMPORTANT: Try each new shutter setting approx. ½ hour before making additional changes.

NOTE: Changes in front burner flame can be made by re-arranging the coals (see pg. 20).

CAUTION: Any changes in pilot flame must be made by qualified person and checked with volt meter.

CUSTOMER INFORMATION AND TROUBLE-SHOOTING

MAXIMUM ALLOWABLE SURFACE TEMPERATURE

Mendota Fireplaces comply with UL Standards for maximum surface temperatures on exposed combustible surfaces adjacent to the unit. The Maximum allowable surface temperature is 117° F. over ambient (room) temperature. Thus, if a room is 70° – 80° the exposed combustible surfaces immediately surrounding the Fireplace can have a surface temperature as high as 187° F. – 197° F. (too hot to touch). The continuous blower operation automatically keeps temperatures within these safety limits. During power outages the unit will "cycle" to prevent over-heating (see Operation During Power Failure, pg. 26).

QUIET OPERATION

The operational noise in any gas appliance is caused by the sound of gas flowing through the burner orifice. Obviously, the higher the BTU's of the appliance the more gas is flowing through an orifice and the greater the sound. The Mendota Gas Fireplaces have a maximum BTU capacity of up to 40,000 BTUH. This, of course, will cause more of a sound than many of the smaller "decorative" gas fireplaces which have a BTU capacity in the range of 15,000 to 25,000 BTUH.

If the noise is objectionable it can be reduced by slowly turning the Hi/Lo Knob on the Control. This will reduce total heat output up to approx. 1/3 (11,000 BTUH).

Some noise can also be caused by the pressure regulator setting. This is usually a "whistling" sound. Because of installation variables such as gas plumbing size and length, flex line size, venting, inlet gas pressure, etc., this noise may be heard at a certain setting of the "Hi-Lo" knob. This noise can be corrected by first checking for proper inlet gas pressure and then simply adjusting the "Hi-Lo" knob to a different setting.

OVER FIRING OF BURNER

NEVER "over fire" units by adjusting gas pressure or drilling out the orifice to increase BTUH above nameplate specifications. Over firing can cause permanent damage to firebox and deterioration of parts and void warranty.

MAINTAINING CORRECT PILOT-FLAME -- PILOT OUTAGE & RELIGHTING

The pilot flame must be checked with millivolt meter and must always be a minimum of 250 millivolts. Never lower (reduce) pilot flame below this minimum 250 millivolt setting (see pg. 28). If pilot flame goes out, always wait 5 minutes before relighting. Always remove glass when lighting pilot.

CLEANING VIEWING GLASS

The viewing glass should be cleaned periodically. Exterior glass may be cleaned with cleaner as desired. Interior glass - use soap and water. CAUTION: Do Not use oven cleaner to clean glass.

NOTE: Additives that are put in gas (both natural and propane) to make it smell, can be harmful to glass and can leave a white film deposit on the glass. This deposit can be removed with cleaners such as KEL KEM "Polish Plus" or comparable product (see your dealer).

In some cases (especially propane) additives can cause "crazing" or etching on the glass. Although this is not normal, it is not covered under the warranty. The solution may be to change propane suppliers.

SOOTING

Sooting is caused by improper installation or operation. At the first sign of "sooting" (usually a thin black film on the Fireplace viewing glass or on the outside of the home around the vent cap) the unit must be immediately turned off and the local Mendota dealer promptly informed. Mendota products are designed and tested to operate without producing any "sooting" when installed and operated correctly. Mendota dealers will correct "sooting" problems, but Mendota and their dealers are not responsible for damage caused by excessive sooting that has not been immediately brought to their attention.

OPERATION DURING POWER FAILURE

The fireplace is designed to operate during power outages. A special high limit switch will "cycle" the burner to prevent over heating (similar to a thermostat "cycling"). The "on" time cycle can be extended by turning the hi-lo knob to "Lo" and removing upper grill.

TEST STANDARD CERTIFICATION

Gas appliances must be tested and certified by a nationally recognized testing and certification laboratory to ANSI (American National Standards Institute) gas appliance safety standards.

There are a number of nationally recognized testing and certification agencies around the United States. Among them are Inchcape Testing Services/Intertek Testing Services, AGA Laboratories, OMNI Laboratories, etc.

The Mendota Gas Fireplace has been tested and certified by Intertek Testing Services, 8431 Murphy Drive, Middleton, Wisconsin 53562, to ANSI Z21.44-1995 "Direct Vent Wall Furnaces," not for use with solid fuel. It is also approved for bedroom installations.

The Mendota Gas Fireplace has met all necessary AGA/ANSI Standards and is fully certified for installation in any community.

MAIN GAS CONTROL INSTALLATION

1. DO NOT USE THIS FIREPLACE IF ANY PART HAS BEEN UNDER WATER OR EXPOSED TO MOISTURE CORROSION. IMMEDIATELY CALL A QUALIFIED SERVICE TECHNICIAN TO INSPECT THE FIREPLACE AND REPLACE ANY PART OF THE CONTROL SYSTEM AND ANY GAS CONTROL WHICH HAS BEEN UNDER WATER.
2. DO NOT insert any object other than suitable pipe or tubing in the inlet or outlet of the main gas control. Internal damage may occur and result in a hazardous condition.
3. DO NOT connect the Fireplace before pressure testing gas piping and checking for gas leaks. Damage may result causing gas leakage.
4. DO NOT grip gas control body with a pipe wrench or vise. Damage may result causing gas leakage. Use inlet or outlet bosses, or special body wrench.
5. DO NOT use green gas knob to adjust gas flow.
6. Leak test with a soap solution with main burner "ON".

REPLACEMENT PARTS

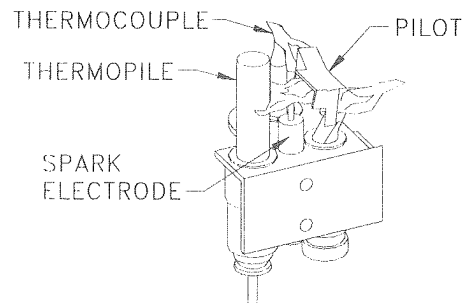
MENDOTA GAS DXV-35 FIREPLACE

PART NO	DESCRIPTION	PART NO	DESCRIPTION
HA-29-00035	DOOR GASKET	05-04-00030	PILOT ASS'Y. NAT. (HONEYWELL)
65-06-00403	GLASS DOOR PANE	05-04-00031	PILOT ASS'Y. L.P. (HONEYWELL)
HA-30-00012	DOOR FRAME ASS'Y.	05-07-00067	THERMOCOUPLE
HA-30-00023	BRASS GRILL TOP	HA-29-00028	MAIN ORIFICE (Nat. Gas) #31
65-06-00457	BRASS GRILL BOTTOM	HA-29-00029	MAIN ORIFICE (LP Gas) #51
HA-30-00022	BLACK GRILL TOP	65-06-00149	PIEZO IGNITER
65-06-00466	BLACK GRILL BOTTOM	05-07-00061	THERMOPILE
35-01-00226	1 PIECE LOG SET 24"	05-01-00118	THERMOSTAT (Wall Mount)
35-01-00231	COALS 8 OZ BAY FOR 1 PC LOG SET	05-01-00154	HI-LIMIT SWITCH
35-01-00225	FIREBRICK KIT	10-01-00003	RHEOSTAT
HA-30-00015	VALVE ASS'Y./PILOT (Nat.)	HA-30-00013	BLOWER ASS'Y.
HA-30-00016	VALVE ASS'Y./PILOT (LP)	15-02-00051	BLOWER WITH MOTOR
HA-30-00009	BURNER TUBE WELDMENT	05-01-00157	THERMO-DISC (Snap Disc-Blower)
HA-29-00034	BURNER AIR BOX	65-06-00126	BLACK PAINT - 3 OZ. SPRAY CAN
		65-06-00125	BLACK PAINT - 13 OZ. SPRAY CAN
		AA-11-00307	NATURAL GAS CONVERSION KIT
		AA-11-00308	LP GAS CONVERSION KIT

MAINTENANCE

1. **ANNUAL MAINTENANCE OF MENDOTA UNITS IS REQUIRED.** The following procedures must be performed each year by a Mendota approved service person. NOTE: Any adjustments to burner, pilot or logs must be done by a qualified Mendota service person.

- A. Clean all lint and dust build-up around the control. Inspect the condition of any wiring under the burner for melting or damage.
- B. Remove logs & coals and clean away any foreign matter (lint, carbon, etc.) on the burner and logs. Be sure the burner ports are "open". Clean the pilot and under side of the logs for any carbon deposits. NOTE: Logs should be visually checked for carbon "build-up". If carbon deposits are visible on logs, unit should be turned off and Mendota service person contacted. Be sure logs are re-installed per instructions on page 20.
- C. Make sure hot air outlet grills are free from lint and other obstructions. Never block or obstruct grill openings. Check condition of gaskets, gaskets must be tight, replace if necessary.
- D. Check that chimney flue and outlet are open and free of blockage.
- E. Before re-installing glass, have qualified service person check the operation of the pilot with millivolt meter and cycle the burner per LIGHTING INSTRUCTIONS (see pg. 19). Pilot must read a minimum of 250 millivolts. Be sure all items in LIGHTING and INSTALLATION "check off" lists are completed (see pg. 17).



2. COMBUSTION SYSTEM MILLIVOLT READING:

Millivolt readings must be taken by a qualified installer at the time of installation and after any interruption in burner operation. These readings will establish proper thermopile millivolt generation and assure trouble-free burner operation. Readings must be taken with: a.) Pilot ONLY operating. b.) Main Burner operating.

A. PILOT ONLY OPERATING - Thermostat "OFF" - Minimum Millivolts 250

Using a Millivolt Meter, a millivolt reading should be taken by attaching Meter leads to terminals #1 and #2 on the main gas valve. The Meter must read a minimum of 250 millivolts with the Pilot Light operating, Thermostat turned "OFF" and Main Burner "OFF". To increase or decrease millivolts, (and pilot flame) adjust pilot screw on control (see Figure 11).

B. MAIN BURNER OPERATING - Thermostat "ON" - Minimum Millivolts 100

Using a Millivolt Meter a millivolt reading should be taken by attaching Meter leads to terminals #2 and #3 on the millivolt panel on the main gas valve. The Meter must read a minimum of 100 millivolts with the Gas Cock Dial turned "ON", Thermostat "ON" and Main Burner operating. To increase or decrease millivolts (and pilot flame) adjust pilot screw on control (see Figure 11: Millivolt Readings).

CHECK TEST	TO TEST	CONNECT METER LEADS TO TERMINALS	THERMOSTAT CONTACTS	METER READING SHOULD BE
A	COMPLETE SYSTEM	2 & 3	CLOSED	100MV OR MORE
B	THERMOPILE OUTPUT	1 & 2	OPEN	GREATER THAN 325 MV
C	SYSTEM RESISTANCE	1 & 3	CLOSED	LESS THAN 80 MV
D	AUTO/PILOT DROPOUT	1 & 2	OPEN	BETWEEN 120-30 MV

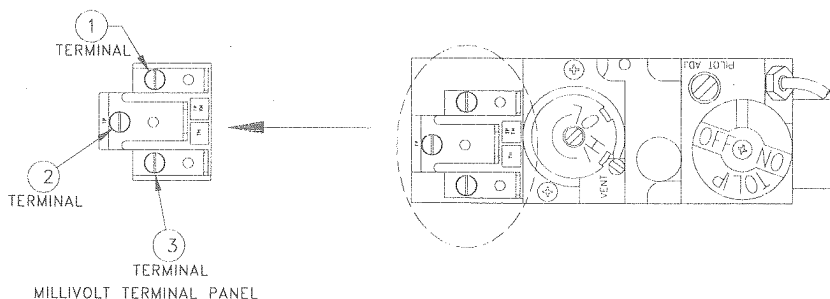
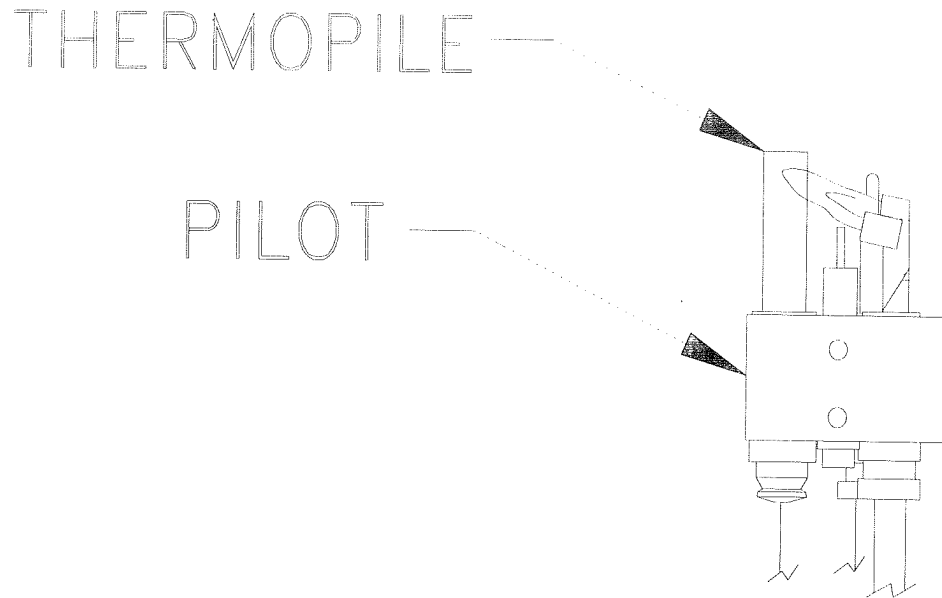
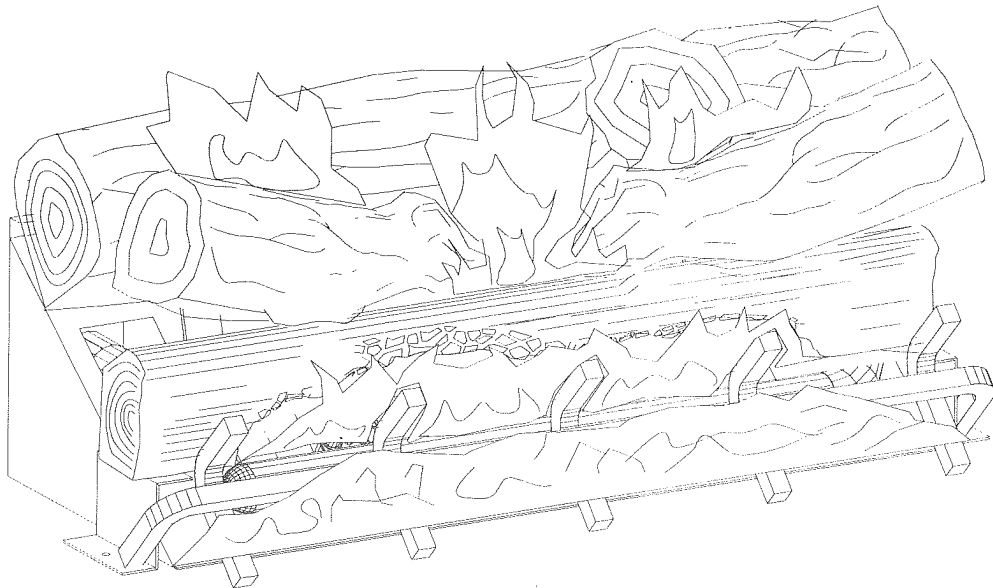


Figure 11: Millivolt Readings

3. **THE VIEWING GLASS SHOULD BE CLEANED PERIODICALLY.** Exterior glass may be cleaned with cleaner as desired. Interior glass - use KEL KEM "Polish Plus" or comparable product (see pg. 25). Do Not use oven cleaner or abrasive cleaners to clean glass. DO NOT CLEAN WHEN GLASS IS HOT.
4. **PERIODIC VISUAL CHECK OF BURNER AND PILOT FLAMES IS REQUIRED.**



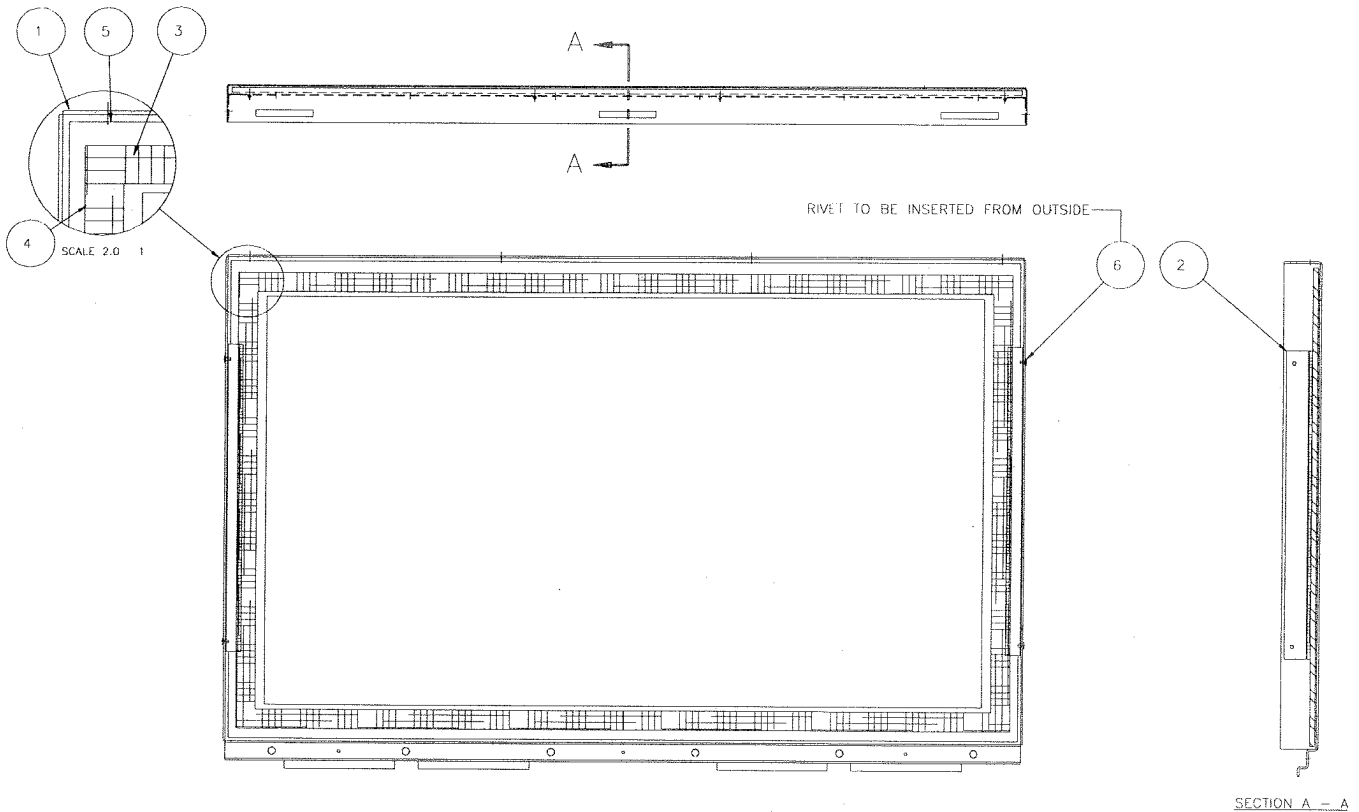
PILOT FLAME



MAIN BURNER FLAMES

GLASS DOOR ASSEMBLY

ITEM NO.	QT'Y.	PART NUMBER	DESCRIPTION
1	1	HA-29-00020	GLASS FRAME
2	2	HA-20-00074	GLASS CLIP ASSEMBLY
3	2	HA-29-00021	HORIZONTAL GLASS GASKET
4	2	HA-29-00022	VERTICAL GLASS GASKET
5	1	65-06-00463	GLASS, DXV 35
6	4	50-05-00017	POP RIVET, 1/8 ALUMINUM BLACK



WARNING: Use only authorized parts and materials obtained from Johnson Gas Appliance when replacing defective or damaged glass.

DO NOT substitute other manufacturer's materials or components.

DO NOT operate unit with cracked, broken or missing glass.

MENDOTA WARRANTY QUALIFICATION & SERVICE REFERENCE FORM

As a part of Mendota's on-going program of customer satisfaction, this Form verifies proper installation and operation. It is important as a reference for future service. It insures long life and trouble-free operation of Mendota fireplaces & stoves and qualifies the owner for Mendota's lifetime limited warranty. Owner should sign Form when completed and mail a copy along with Warranty Registration to Mendota.

HOME OWNER: _____ DEALER: _____
ADDRESS: _____ ADDRESS: _____
CITY/STATE/ZIP: _____ CITY/STATE/ZIP: _____
SIGNATURE: _____ PHONE: _____
MODEL #: DXV-35 SERIAL #: _____ DATE INSTALLED: _____

Mendota direct vent fireplaces are sophisticated, hi-tech gas appliances. All installation and operating instructions must be carefully followed. The DXV fireplace must be installed and serviced by a qualified Mendota approved service person.

REF: MENDOTA DXV INSTALLATION MANUAL

- ☐ APPROVED VENT PIPES AND VENT CAP INSTALLED - Per Manual.
Vent pipes must be fully twist-locked and leak proof.
2000° sealant must be used on inner joints at adjustable pipe sections.
- ☐ CHECK FOR PROPER CLEARANCES TO COMBUSTIBLES - Per Manual
- ☐ INSTALL PROPER SIZE GAS LINES - CHECK FOR GAS LEAKS - Per Manual
- ☐ CHECK FOR CORRECT GAS PRESSURE AT MANIFOLD - Per Manual
 - a. 3.5 Inches Water Column Maximum - Nat. Gas
 - b. 10.5 Inches Water Column Maximum - L.P. Gas
- ☐ TAKE COMBUSTION SYSTEM MILLIVOLT READINGS [See Manual pg.. 28]
 - a. Pilot only - [Minimum Millivolts 250] Reading: _____
 - b. Main burner operating - [Minimum Millivolts 100] Reading: _____
- ☐ CYCLE BURNERS ON/OFF FOR PROMPT IGNITION - Per "LIGHTING INSTRUCTIONS"
Burner must light IMMEDIATELY - Flame must travel promptly around "curve" & light burner.
- ☐ INSTALL LOGS AND ADJUST FLAME - Per Manual
Proper pilot flame impingement on thermopile & burner - Air shutter opening: 1/8" - 1/4" Nat. Gas - 1/2" LP
Check that flame is "stable" and is not "lifting" off burner
- ☐ BRIEF OWNER ON OPERATION AND MAINTENANCE OF UNIT
 - ☐ Light Pilot
 - ☐ Operate Burner
 - ☐ Explain blower "delay" operation

WARRANTY REGISTRATION

Your Name _____
Address _____
City _____ State _____ Zip _____
Dealer (Place of Purchase) _____
City _____ State _____ Zip _____
Date of Purchase _____ Serial Number _____
Purchaser's Signature _____

☐ MENDOTA DXV-35 DIRECT VENT FIREPLACE

CUT OUT PAGE AND MAIL TO: JOHNSON GAS APPLIANCE CO., 520 E AVE. N.W. , CEDAR RAPIDS, IOWA 52405

MENDOTA EXTENDED LIFETIME PROTECTION AND LIMITED WARRANTY

MENDOTA DXV-35 DIRECT VENT FIREPLACE

Mendota Division of Johnson Gas Appliance Company, 520 E Avenue N.W. Cedar Rapids, Iowa 52405, extends this Extended Lifetime Protection and Limited Warranty to the original purchaser of a Mendota DXV Fireplace, Serial Number _____, which is limited and used under normal home conditions.

STANDARD WARRANTY:

JOHNSON GAS APPLIANCE CO., MENDOTA DIVISION, WARRANTS THAT YOUR NEW MENDOTA DXV FIREPLACE IS FREE FROM MANUFACTURING AND MATERIAL DEFECTS FOR A PERIOD OF ONE YEAR FROM THE DATE OF INSTALLATION, SUBJECT TO THE FOLLOWING CONDITIONS AND LIMITATIONS:

EXTENDED LIFETIME WARRANTY:

THE HEAT EXCHANGER, BURNER TUBE COMBUSTION CHAMBER, GLASS, LOGS, EMBERS AND OUTER SHEILD OF THE MENDOTA DXV FIREPLACE ARE WARRANTED FOR THE LIFETIME OF THE ORIGINAL OWNER, SUBJECT TO PROOF OF PURCHASE AND THE FOLLOWING CONDITIONS AND LIMITATIONS:

- 1) This new Mendota Fireplace must be installed & serviced by a competent, authorized service contractor. It must be installed and operated at all times in accordance with the installation and operating instructions furnished with the Fireplace. All adjustments to logs, coals or burner must be made by an authorized Mendota person. Any alteration, willful abuse, accident or misuse of the product shall nullify this warranty. This warranty does not cover glass or log breakage. Logs and embers are warrantied against "burn out".

This limited warranty does not cover the cost of service calls, the cost of labor to remove or install parts covered by this limited warranty, freight or other transportation expenses which may be incurred in connection with obtaining performances under this limited warranty. The remedy for damages as the result of any defects in this product which have been warranted herein is limited to replacement parts and does not include any incidental, indirect or consequential damages or expenses sustained in connection with the product, including damages to property, except as provided by law.

- 2) This warranty is non-transferable and is made to the original retail purchaser, provided the purchase was made through an authorized Mendota dealer.

Mendota is not responsible for any damage to or malfunction of the Fireplace unless caused by a defect in material or workmanship from normal home use. Damage caused by abuse, improper installation, improper servicing, installation by unqualified personnel or breech of conditions of this limited warranty will excuse Mendota from performance of any part of this limited warranty. Mendota has the right to investigate and inspect the exact, original Fireplace and entire installation (without any alterations or tampering) in the event a claim is made to determine whether the claimed damage or malfunction was caused by abuse, improper installation or other cause outside this warranty. Mendota is not responsible for any repairs or material purchases that have not received prior written approval from Mendota.

NOTE: Minor warping of certain parts or discoloration is normal and is not a defect covered by this warranty. Major warping of parts can be caused by over-firing of your Mendota Fireplace. Over-firing above rated nameplate specification is as contrary to the manufacturer's instructions and may void this warranty.

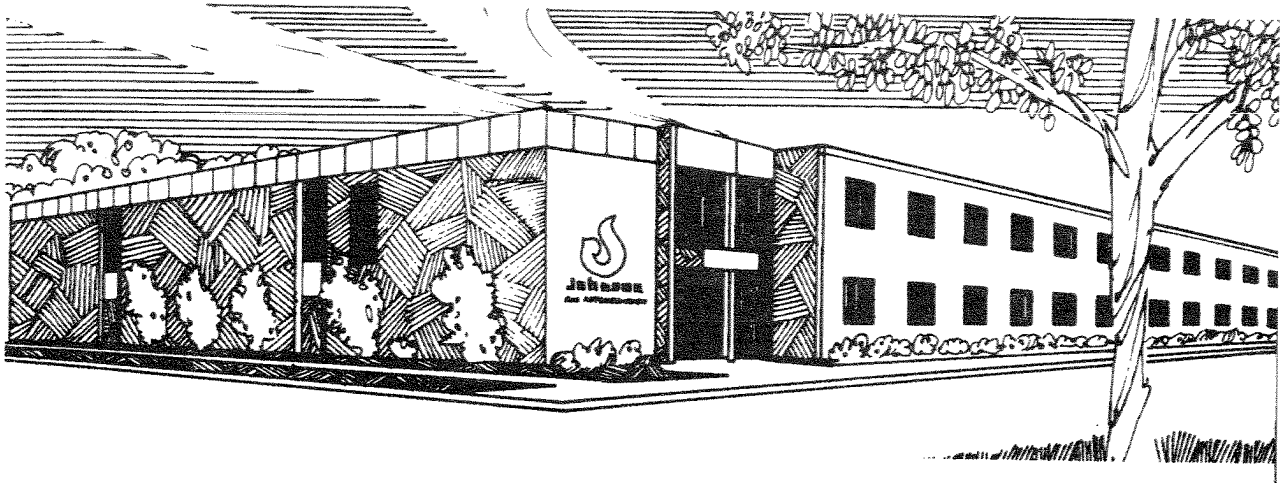
This warranty may not be extended by our representatives or any third party in any manner. The company neither assumes, nor authorizes any third party to assume, on its behalf, any other liabilities with respect to the sale of this Mendota product.

- 3) Mendota may at its discretion, fully discharge all obligations of this warranty by refunding the wholesale price of the defective part(s).
- 4) All other warranties - expressed or implied - with respect to the product, its components and accessories, or any obligation/liabilities on the part of the company are hereby expressly excluded. Products made by other manufacturers, sold with the Fireplace or thereafter, are not covered by this limited warranty. The use of unauthorized components will make this warranty null and void.

This warranty shall be effective only if the original purchaser of the Mendota appliance is registered with Mendota Division within thirty (30) days of the date of purchase. Such registration or the failure to register shall not be deemed to create any obligation or liability by the manufacturer and this warranty with its conditions and limitations shall be the only procedure for obtaining any rights against the manufacturer and expresses the sole obligation and responsibilities of the manufacturer which are offered to the original purchaser and accepted upon purchase of the appliance.

Mendota Division, reserves the right to make changes at any time without notice, in design, material, specifications, prices and the right to discontinue styles and products.

Some states do not allow the exclusion of limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.



Johnson Gas Appliance Company
520 E Avenue N.W. - Cedar Rapids, IA 52405
Mendota Hearth Division

2500/399
Part #65-05-00082