MENDOTA
America's Premiere Fireplaces

GAS DIRECT VENT FIREPLACE

WITH HEARTHGLO SEALED COMBUSTION SYSTEM

Model DXV-60

(SHOWN WITH OPTIONAL PRAIRIE FRONT and OVERLAY)

INSTALLATION & OPERATING INSTRUCTIONS

NATIONAL FIREPLACE INSTITUTE NFI CERTIFIED www.nficertified.org

We recommend that our gas hearth products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute® (NFI) as NFI Gas Specialists.

NO. 0308

With ANSI National Warnock Hersey Certified Design Complies Safety Standards Gas Appliance

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

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

CHATEAU, MODEL DXV-60
High Fire - Adjustable to - Low Fire

BTUH. (MODEL DXV-60)	NAT. GAS	60,000	10,000
BTUH. (MODEL DXV-60)	L.P. GAS	59,000	9,500

NOTE: LP CONVERSION KIT #HA-40-00127 MUST BE PURCHASED SEPARATELY TO BURN LPG IN THIS FIREPLACE. - SEE PAGE 38 FOR INSTALLATION INSTRUCTIONS.

MAIN ORIFICE: NAT. GAS: FRONT #43, REAR #30 -- L.P. GAS: FRONT #55, REAR #48

OVERALL EFFICIENCY ..... EXCEEDS D.O.E. EFFICIENCY REQUIREMENTS (A.F.U.E.) FOR DIRECT VENT WALL HEATERS

CO-AXIAL DIRECT VENT FLUE ..... 5" INNER, 8" OUTER

TOTAL WEIGHT ..... 235 POUNDS

SAFETY ..... AGA CERTIFIED PILOT GENERATOR, MILLIVOLT SYSTEM ACTIVATED WITH SWITCH , THERMOSTAT OR REMOTE CONTROL.

GAS REQUIREMENTS..... SUPPLY PRESSURE: 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 ..... 120 VOLT

APPROVED VENT SYSTEMS: AMERIVENT, DURAVENT, SELKIRK METALBESTOS, SECURITY CHIMNEY

Certified under ANSI Z21.88-2002·CSA 2-33-2002"Vented Gas Fireplace Heaters" 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." CAN/CGA - 2·17-M91 "Gas-fired appliances for use at high altitudes."

FIREPLACE INCLUDES A HEARTHGLO SEALED COMBUSTION SYSTEM, 6 ERAMIC FIBER LOGs & COALS, FIREBRICK LINED FIREBOX, NEOCERAM GLASS, PIEZO IGNITER, DUAL BLOWER, AGA CERTIFIED SAFETY SYSTEM, AND WALL THERMOSTAT.
OPTIONS: BLACK OR BRASS TONE GRILL SETS, BLACK OR GOLD "VICTORIA" and TUSCANY FRONT, ANDOVER and PRAIRIE DOOR FRONTS, WELLINGTON SCREEN FRONT, DEERFIELD CAST SCROLL FRONT and VERSIHEAT REMOTE FORCED AIR HEAT TRANSFER SYSTEM.

HIGH ALTITUDE INSTALLATION INFORMATION: Prior to installing at altitudes higher than 7500, please contact the Mendota technical service department for specific venting requirements and venting restrictions.

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.

Building Permit and Installation Inspection Approval Requirements

NATIONAL FIREPLACE INSTITUTE NFI CERTIFIED www.nficertified.org

We recommend that our gas hearth products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute® (NFI) as NFI Gas Specialists.

All installations of Mendota Fireplace and Inserts must comply with all the requirements stated in this Installation and Operating Instructions Manual. The Dealer and/or installer must also obtain all required Building Permits and Inspection Approval from the

local building inspection department or the local body having jurisdiction.

In order to validate warranty coverage, Mendota may require facsimile copies of the Building Permit and Inspection Approval forms. Failure to provide adequate proof that the installation conforms to all local requirements and the requirements stated in the Installation and Operating Instructions Manual will void all applicable warranty.

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.

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 door 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. All vent pipe sections must be "twist locked" and leak proof.

The Mendota Direct Vent Fireplace may be placed within inches of adjacent side walls. (See FIGURE 1 on PAGE 4). 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 as per FIGURE 1 on PAGE. 4. 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, MENDOTA VENT SYSTEMS AND MENDOTA APPROVED VENT CAPS.

KEEP ELECTRONIC APPLIANCES AWAY: DUE TO THE HIGH TEMPERATURES IN THE VICINITY OF THIS FIREPLACE, MENDOTA RECOMMENDS THAT ALL ELECTRONIC APPLIANCES INCLUDING AUDIO/VIDEO APPLIANCES AND THEIR RECORDING MEDIA (ie. TV, VCR, DVD PLAYER, CD PLAYER, TUNERS, TELEPHONES, CASSETTE TAPES, VIDEO TAPES, CDs, DVD CDs) BE KEPT WELL AWAY FROM THIS FIREPLACE.

HEARTH PROTECTION PAD REQUIREMENTS:
A non-combustible hearth protector is required and must extend a minimum of 18" in front of the fireplace (see Figure 1 on PAGE 4 for raised hearths). If installing Louver Grills, Tuscany or Victoria Fronts, the Hearth Protection Pad may protrude above the floor level of the fireplace. However, when planning to Install the Andover, Prairie, Wellington and Deerfield Fronts the hearth protection pad installed in front of the DXV-60 Fireplace must be designed, built and installed so that the hearth protection pad's top surface is flush with the bottom- most surface of the DXV60 Fireplace. See PAGEs 18- 21 for detailed information.

VENTING REQUIREMENTS:
Use only Mendota specified vents and vent caps when installing your fireplace. Closely follow venting locations, directions and requirements (see PAGEs 9-18). Observe the restrictions relating to vent position on exterior of home (see PAGE 8).

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 properly 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 fans. **The most efficient method for overall heat distribution is a ceiling fan.** The heat output of the Fireplace can be reduced by up to 24,000 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 PAGE 4, 19-21)

ELECTRICAL REQUIREMENTS:
A blower is standard on your Mendota Direct Vent Fireplace, A 120 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 blower output can be adjusted with the rheostat. 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 PAGE 34).

Thermostat wire should be run from desired thermostat location (or "on/off") switch to the fireplace's gas valve terminals (located behind lower grill) – see thermostat installation section (PAGE 32).

DXV-60 GAS DIRECT VENT FIREPLACE

SPECIFICATIONS & CLEARANCES

DIRECT VENT SIZE: 5" I.D., 8" O.D.

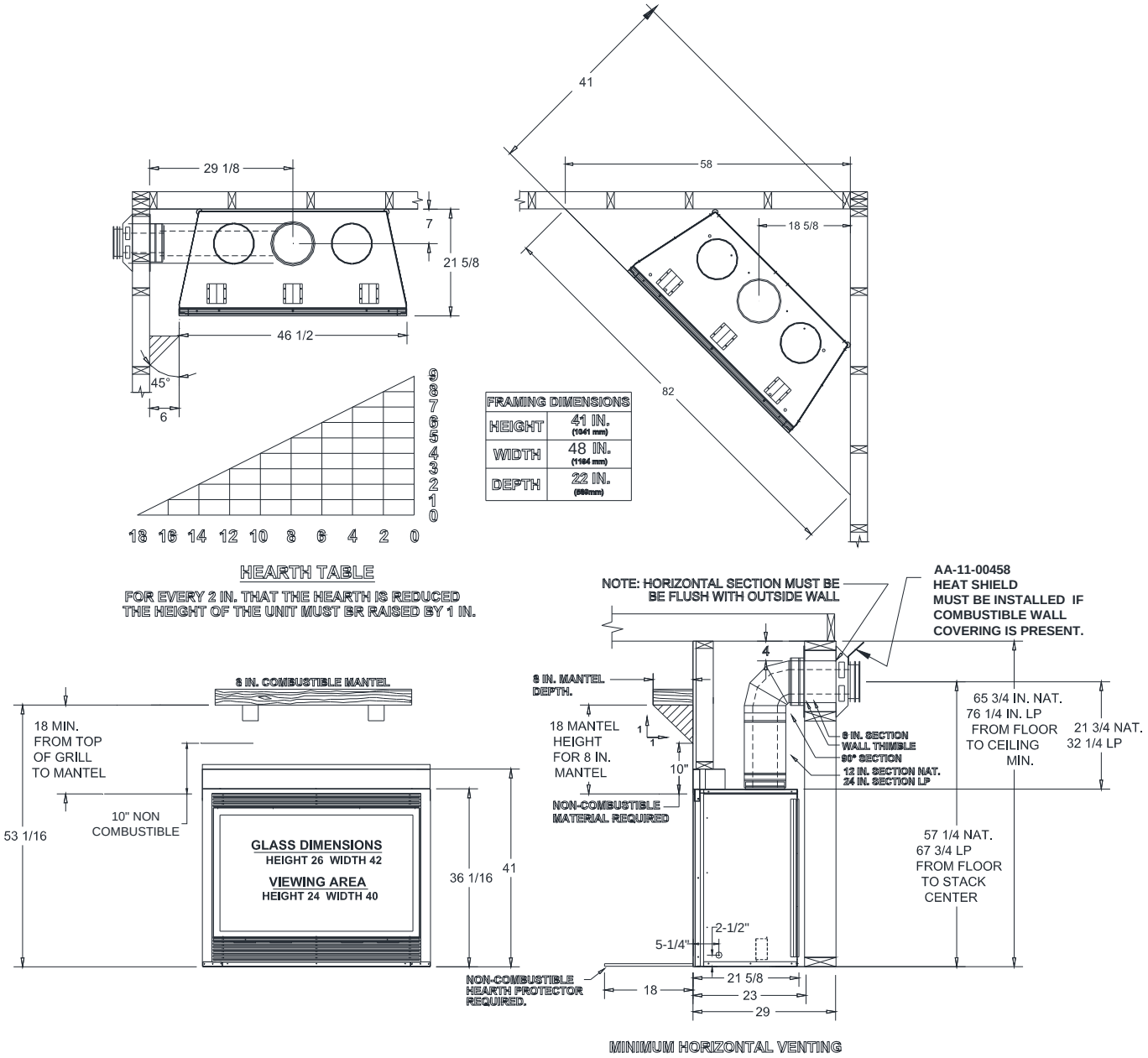


FIGURE 1: Specifications & Clearances

HIGH ALTITUDE INSTALLATION INFORMATION: Prior to installing at altitudes higher than 7500, please contact the Mendota technical service department for specific venting requirements and venting restrictions.

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 PAGE 3), prepare the rough opening using framing dimensions on PAGE 4 and 5. Prepare opening to allow for co-axial vent (see "Flue Venting Instructions" on PAGEs. 9 -18).
2. Check to make certain all venting requirements and locations are being followed. (see PAGE 9 -18).
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 CLEARANCES 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 surface. A noncombustible board such as “Dura-Rock” or “wonder board” must be used within 4” of top black frame. Non-combustible 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 the flue connection is recommended
6. Have an electrician install a 120 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 PAGE 34 and "Electrical Requirements" PAGE 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 PAGEs 6-7) and all local and national codes are carefully followed. Carefully check for gas leaks and for proper gas pressure.

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). NOTE: There will be a time delay in blower operation during "heat-up" (approx. 1/2 hour) and extended blower operation during "cool-down" of unit. (approx. 1/2 hour).

OPERATION DURING POWER OUTAGES

The fireplace is designed to operate during power outages. The blower will not operate, but natural convection can be improved by removing the upper grill, opening the doors on Andover and Prairie Fronts and opening the Wellington Firescreen.

HIGH ALTITUDE INSTALLATION INFORMATION: Prior to installing at altitudes higher than 7500, please contact the Mendota technical service department for specific venting requirements and venting restrictions.

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.Ocm) inlet on the main gas valve. This may be removed if a ½" 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 2 PAGE 7) 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 IS TO BE USED WITH INSTALLATIONS REQUIRING HARD PLUMBING. IT MAY BE REMOVED IF THE FIRE PLACE IS BEING INSTALLED WITH A FLEXIBLE CONNECTOR.

GAS LEAK TEST REQUIREMENT: It is the responsibility of the installer/service person to assure that each and every gas connection and supply tubings that are a part of this fireplace are leak proof. The qualified/certified individual connecting the gas supply line, performing pressure tests or performing any service to this fireplace is required to perform a THOROUGH LEAK TEST on ALL gas fittings that are a part of this appliance or the gas supply line connection using soap-water solution or a calibrated combustible gas detector.

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. can be 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 LEAK TEST REQUIREMENT**:** It is the responsibility of the installer/service person to assure that each and every gas connection and supply tubings that are a part of this fireplace are leak proof. The qualified/ certified individual connecting the gas supply line, performing pressure tests or performing any service to this fireplace is required to perform a THOROUGH LEAK TEST on ALL gas fittings that are a part of this appliance or the gas supply line connection using soap-water solution or a calibrated combustible gas detector. Failure to perform this leak test may lead to a house fire and/or an explosion. Mendota is not responsible for any damages due to an Installer's failure to conduct a leak test and verify that all connections and supply lines are leak proof.

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 – min. (14 mm)

TURN GAS VALVE KNOB TO "HIGH" POSITION. GAS PRESSURES MAY VARY PLUS OR MINUS 5%
*AIR SHUTTER POSITION MAY VARY WITH ALTITUDEs ABOVE 5,000 FT.

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 2: Pressure Test Port).

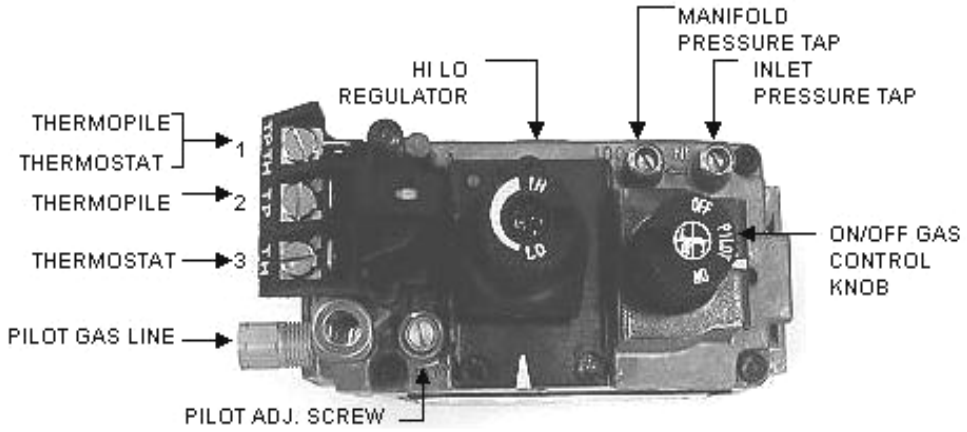


FIGURE 2: Pressure Test Port

DXV-60 EXTERIOR VENT LOCATIONS AND RESTRICTIONS

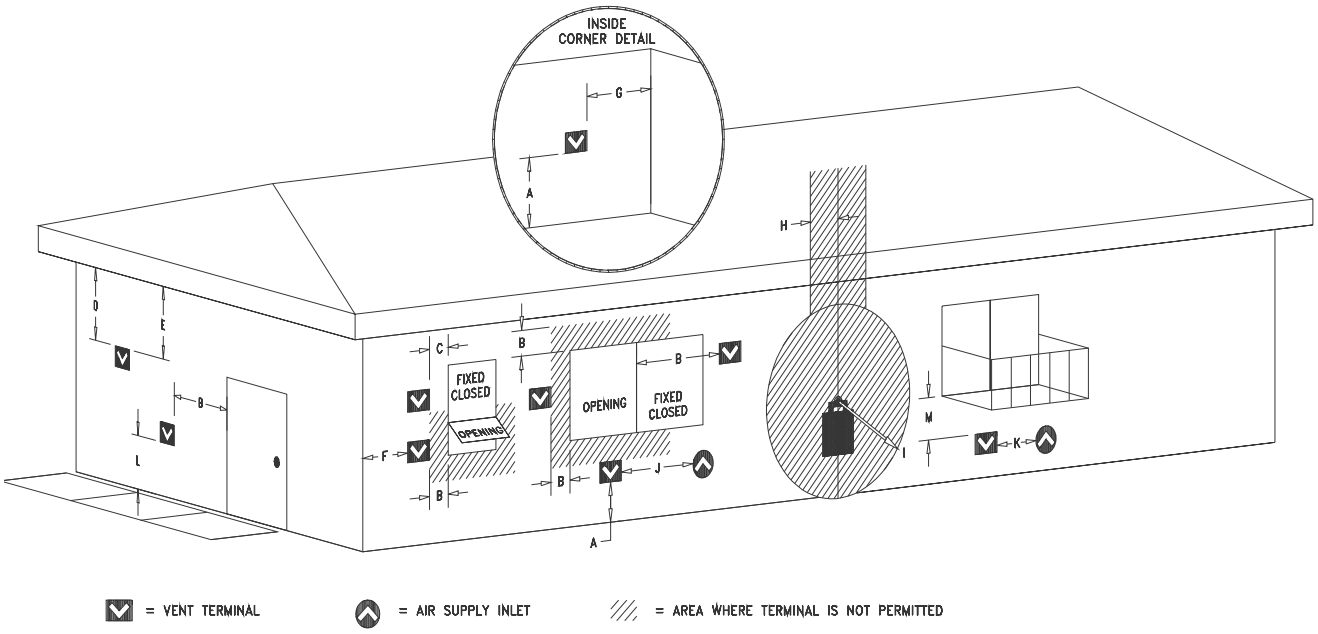


FIGURE 3: Exterior Vent Locations

∨ - Vent Terminal **∧ - Air Supply Inlet** **≡ - Area where terminal is not permitted**

A = Clearance above grade, veranda, porch, deck, or balcony (*18 inches (45 cm) minimum)

B = Clearance to window or door that may be opened (*12 inches (30 cm) minimum.

C = Clearance to permanently closed window (minimum 12 inches (30 cm) recommended to prevent condensation on window)

D = Vertical clearance to ventilated soffit located above the terminal within a horizontal distance of two feet (60 cm) from the center-line of the terminal (18 inches (46 cm) minimum). Vinyl surfaces require 24" min.

E = Clearance to unventilated soffit (18 inches (46 cm) minimum). Vinyl surfaces require 24" min

F = Clearance to outside corner - six inches (15 cm)

G = Clearance to inside corner - 24 inches (60 cm)

H = *Not to be installed above a meter/regulator assembly within three feet (90 cm) horizontally from the center-line of the regulator

I = Clearance to service regulator vent outlet (*6 feet (1.8m) minimum)

J = Clearance to non-mechanical air supply inlet to building or the combustion air inlet to any other appliance. (*12 inches (30 cm) minimum.

K = Clearance to a mechanical air supply inlet (*6 feet (1.8 m) minimum)

L = † Clearance above paved side-walk or a paved driveway located on public property (*7 feet (2.1 m) minimum)

M = Clearance under veranda, porch, deck, or balcony (*24 inches (60 cm) minimum ‡)

† 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.

HIGH ALTITUDE INSTALLATION INFORMATION: Prior to installing at altitudes higher than 7500, please contact the Mendota technical service department for specific venting requirements and venting restrictions.

FLUE VENTING INSTRUCTIONS

The Mendota Fireplace must be vented using DuraVent or Amerivent 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 security chimney Simpson DuraVent, Amerivent 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, soffitts, 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 (Dura Vent only).

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

Note: When using Dura-vent DV pipe you must use a heat safe silicate stove masonry sealant. As an alternative, high temperature tape may be used on the outer (air intake) pipe joint instead of the stove sealant.

DO NOT SEPARATE TELESCOPING SECTIONS. THEY MUST BE USED AS COMPLETE ASSEMBLIES. (Dura Vent only)

COMPONENT "TWIST-LOCK" CONNECTION PROCEDURE (Dura Vent only)

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 identifications so that they match and slide into the four entry slots on the male ends (FIGURE 4).

Push the pipe sections completely together then twist-lock one section clockwise, approximately 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

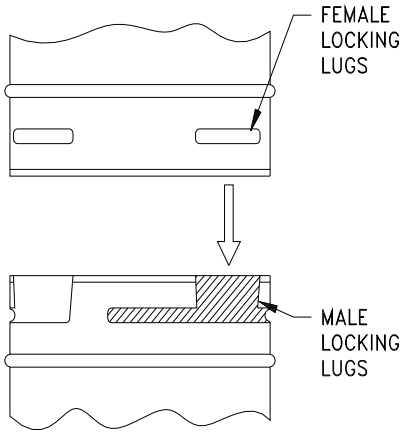


FIGURE 4: Twist-Lock Piping

HIGH ALTITUDE INSTALLATION INFORMATION: Prior to installing at altitudes higher than 7500, please contact the Mendota technical service department for specific venting requirements and venting restrictions.

5"/ 8"FLUE VENTING COMPONENTS

ITEM	COMPONENTS PART #	DESCRIPTION
1	45-01-00222	12" VENT STACK 5" / 8"
1	45-01-00223	24" VENT STACK 5" / 8"
1	45-01-00224	36" VENT STACK 5" / 8"
1	45-01-00225	48" VENT STACK 5" / 8"
2	45-01-00228	90°GALVANIZED ELBOW 5" / 8"
3	45-01-00227	45° GALVANIZED ELBOW 5" / 8"
4	45-01-00229	ADJUST. WALL THIMBLE 5" / 8"
*5	45-01-00226	11 - 14" ADJUSTABLE PIPE 5" / 8"
9	45-01-00239	ATTIC INSULATION SHIELD 12" 5"/8"
10	45-01-00236	ROOF FLASHING (0/12 TO 6/12) 5"/ 8"
10	45-01-00237	ROOF FLASHING (7/12 TO 12/12)5"/8"
11	45-01-00238	STORM COLLAR 5" / 8"
12	45-01-00230	VERTICAL VENT CAP 5" / 8"
13	45-01-00234	SUPPORT BAND 5" / 8"
14	45-01-00231	HORIZONTAL VENT CAP 5" / 8"
15	45-01-00235	FIRESTOP SPACER 5" / 8"
16	45-01-00221	6" VENT STACK GALV. 5" / 8"
17	AA-11-00458	HEAT SHIELD (FOR VINYL, WOOD & COMBUSTIBLE SIDING)

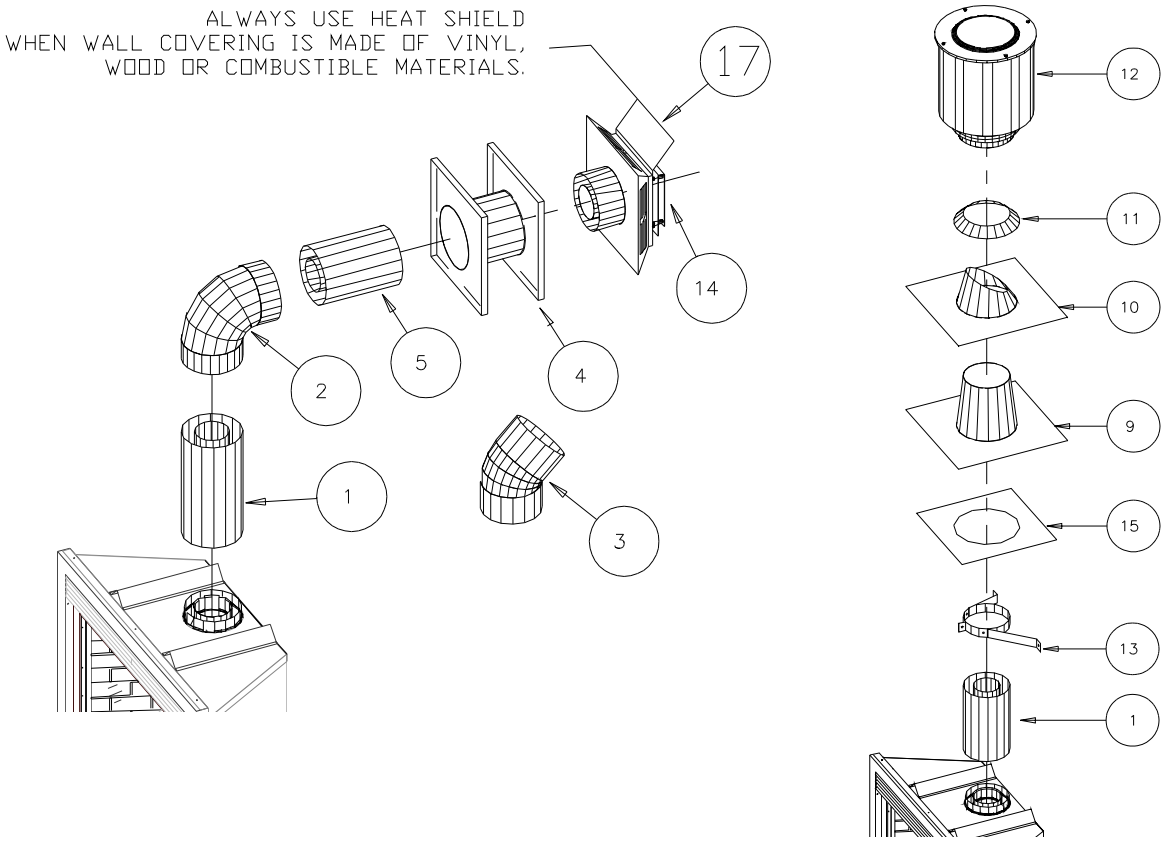


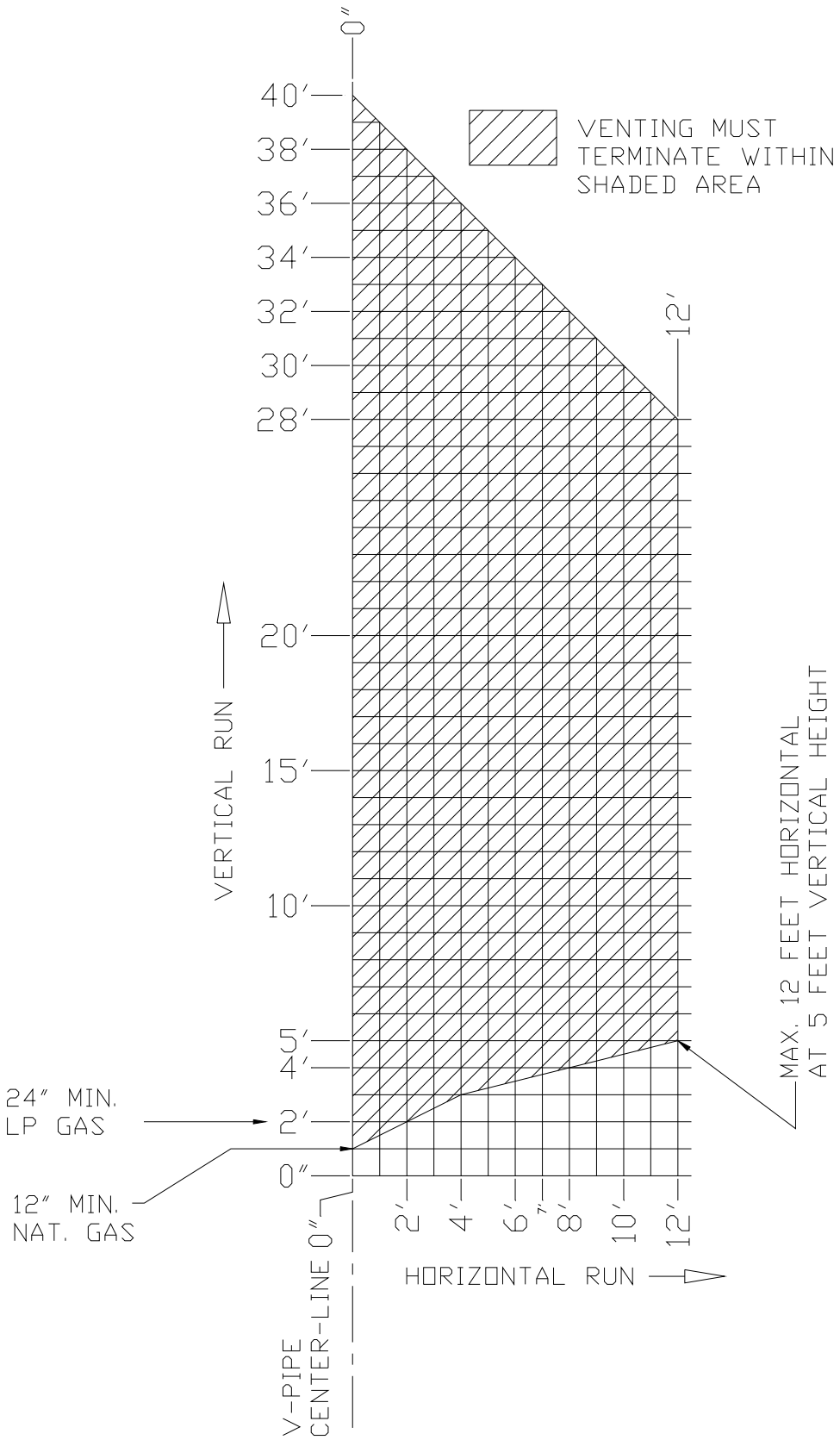
Figure 5: Flue Venting Components

If adjustable – telescoping – pipe sections must be used, HEAT SAFE 2000° SILICATE STOVE MASONRY SEALANT (part #35-01-238) – DURA-VENT ONLY

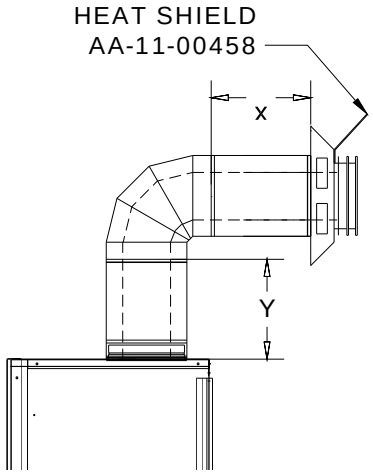
***NOTE:** DO NOT SEPARATE TELESCOPING SECTIONS**.** THEY **MUST** BE USED AS COMPLETE ASSEMBLIES**.**

GENERAL FLUE VENTING REQUIREMENTS

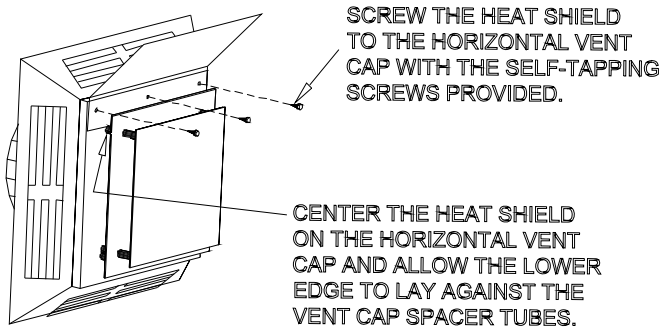
HIGH ALTITUDE INSTALLATION INFORMATION: Prior to installing at altitudes higher than 7500, please contact the Mendota technical service department for specific venting requirements and venting restrictions.



HORIZONTAL FLUE VENTING REQUIREMENTS



HEAT SHIELD #AA-11-00458



Y-VERTICAL RISE (pipe length from top of fireplace)	**X-HORIZONTAL RUN (pipe length from elbow)**
1 FT MINIMUM (NAT GAS)	**0 TO 1 FT.**
2 FT MINIMUM (LP GAS)	**0 TO 2 FT.**
3 FT.	**0 TO 4 FT.**
4 FT.	**0 TO 8 FT.**
5 FT.	**0 TO 12 FT.**
28 FT.	**0 TO 10 FT.**
30 FT.	**0 TO 8 FT.**
32 FT.	**0 TO 6 FT.**
34 FT.	**0 TO 4 FT.**
36 FT.	**0 TO 2 FT.**
38 FT.	**0 TO 1 FT.**
40 FT.	**0 FT.**

NATURAL GAS REQUIREMENT: A minimum 1 foot vertical section is required directly on top of fireplace.

L.P. GAS REQUIREMENT: A minimum 2 foot vertical section is required directly on top of fireplace.

TOTAL VENT RUN: (rise + run) must not exceed 40 feet.

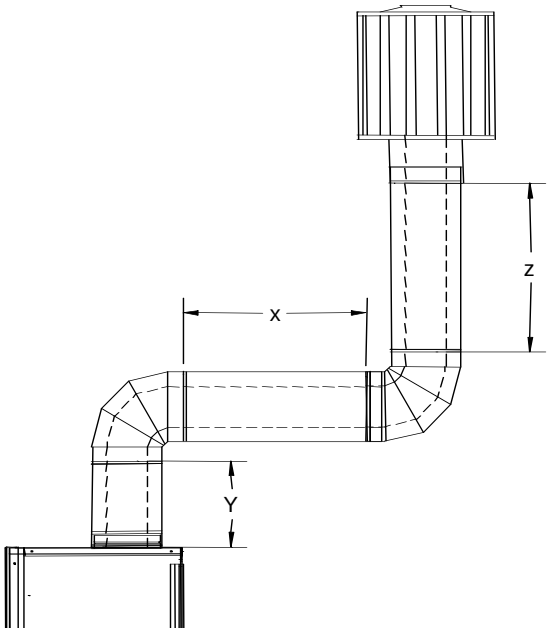
TOTAL HORIZONTAL VENT RUN (X) must not exceed 12 feet.

- **No more than three 90° elbows may be used per run. (Two 45° elbows = one 90° elbow)**
- **A minimum 1 foot section must be installed between 90° elbows.**
- **Every additional 90° elbow (in addition to that shown above) reduces total allowed horizontal run by 2 feet.**
- **Every additional 45° elbow reduces total allowed horizontal run by 1 foot.**

HIGH ALTITUDE INSTALLATION INFORMATION: Prior to installing at altitudes higher than 7500, please contact the Mendota technical service department for specific venting requirements and venting restrictions.

VERTICAL FLUE VENTING REQUIREMENTS

Y-VERTICAL RISE (pipe length from top of fireplace)	X-HORIZONTAL RUN (pipe length from elbow)
1 FT MINIMUM (NAT GAS)	0 TO 1 FT.
2 FT MINIMUM (LP GAS)	0 TO 2 FT.
3 FT.	0 TO 4 FT.
4 FT.	0 TO 8 FT.
5 FT.	0 TO 12 FT.
28 FT.	0 TO 10 FT.
30 FT.	0 TO 8 FT.
32 FT.	0 TO 6 FT.
34 FT.	0 TO 4 FT.
36 FT.	0 TO 2 FT.
38 FT.	0 TO 1 FT.
40 FT.	0 FT.



NATURAL GAS REQUIREMENT: A minimum 1 foot vertical section is required directly on top of fireplace.

L.P. GAS REQUIREMENT: A minimum 2 foot vertical section is required directly on top of fireplace.

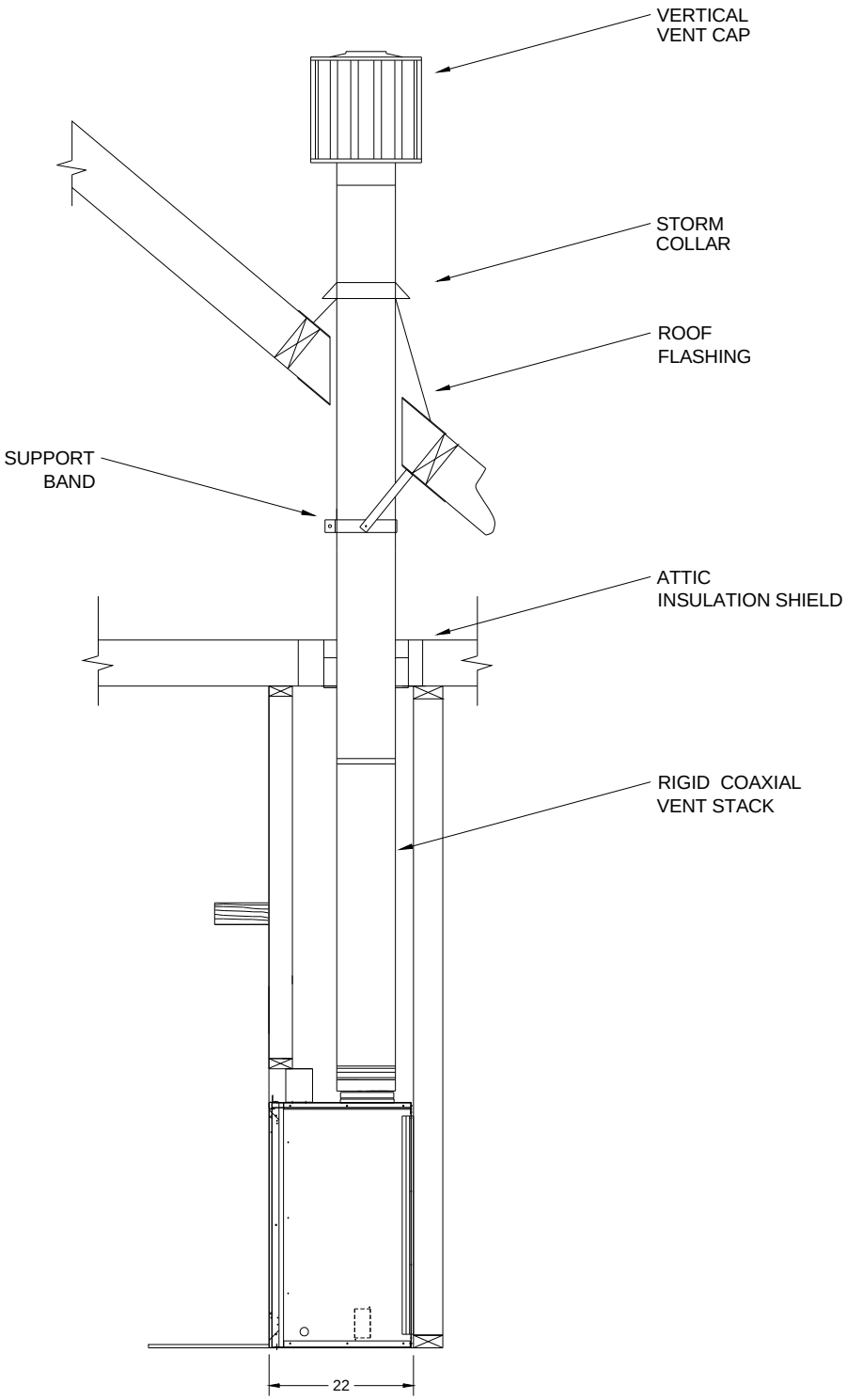
TOTAL VENT RUN: (X+Y+Z) must not exceed 40 feet.

TOTAL HORIZONTAL VENT RUN (X) must not exceed 12 feet.

- **No more than three 90° elbows may be used per run. (Two 45° elbows = one 90° elbow)**
- **A minimum 1 foot section must be installed between 90° elbows.**
- **Every additional 90° elbow (after the 1st elbow) reduces total allowed horizontal run by 2 feet.**
- **Every additional 45° elbow reduces total allowed horizontal run by 1 foot.**

HIGH ALTITUDE INSTALLATION INFORMATION: Prior to installing at altitudes higher than 7500, please contact the Mendota technical service department for specific venting requirements and venting restrictions.

ROOF TERMINATION ASSEMBLY



A-1 MINIMUM RISE THROUGH-THE-WALL VENTING

The minimum vertical rise for vent installation through the wall is 21-3/4"(32-1/4" LPG)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, especially for LP gas installations and for installations at higher altitudes.** ALWAYS MAINTAIN 1" CLEARANCES FROM VENT PIPE TO COMBUSTIBLES, 2" ABOVE PIPE ON HORIZONTAL RUNS. 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 (Dura Vent only). Do not fill air spaces with insulation or other material.

IMPORTANT: REFER TO DRAWINGS ON PAGE 11 WHILE FOLLOWING THESE INSTRUCTIONS.

The DXV-60 Fireplace must be installed by a qualified Mendota approved service person.

1. Position fireplace in desired location. See PAGE 8 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 21-3/4"(32-1/4" LPG) from top of fireplace to centerline of 90° elbow (See FIGURE 1. PAGE 4) and mark wall directly at the center of where the vent pipe will penetrate the wall.
3. Cut and frame an opening in the outside wall properly sized for the wall thimble you will be using (See Wall Thimble manufacturer's instructions). The hole must be positioned so the vent system will run level or have a ¼ " rise per foot of run 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. The wall thimble opening in the wall must be framed to provide a minimum of either two horizontal or two vertical framed supports. If wall being penetrated is non-combustible material, i.e. masonry block, brick, etc., a 8 ½" diameter hole is acceptable.
4. Be sure all 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 (Dura Vent only).

***NOTE: DO NOT SEPARATE TELESCOPING SECTIONS USE AS COMPLETE ASSEMBLIES**

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. 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.
7. **If the Horizontal Vent Cap is installed on a wall covered with Vinyl, Wood or a Combustible siding material, always install the Mendota Heat Shield #AA-11-00458.**

NOTE: Venting terminal should not be recessed into the wall or siding. Always use the Mendota Heat Shield #AA-11-00458 when installing a horizontal vent cap over Vinyl, Wood or a Combustible materials.

A-2 ELEVATED RISE THROUGH-THE-WALL VENTING

The minimum vertical rise from top of fireplace, is 60 in. when used with a maximum horizontal run of 12 ft. For other venting configurations within these maximum limits see figure 6 PAGE 11.

NOTE: The horizontal run of vent pipe must have a ¼" 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 th allowable maximum 12' horizontal run. Each additional 90° elbow reduces the maximum horizontal distance by 3'. A maximum of two 90° or four 45° elbows can be used. 45° elbows reduce the maximum horizontal distance by 1½ '.

SUPPORT: Horizontal runs of pipe will require one vent support for every 3 ft. of pipe.
CAUTION: Be sure to maintain 1" air space clearances to any combustibles (2" above horizontal runs).

IMPORTANT: REFER TO DRAWINGS ON PAGE 11 WHILE FOLLOWING THESE INSTRUCTIONS.

The DXV-60 Fireplace must be installed by a qualified Mendota service person.

1. Position fireplace in desired location. See PAGE 8 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 pre-assembling 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 3: Exterior Vent Locations, PAGE 8). Be sure all vent components are properly twist locked and leak-proof. Be sure 2000° sealant is used in the inner joints of all adjustable pipe sections (Dura Vent only).

***NOTE: DO NOT SEPARATE TELESCOPING SECTIONS USE AS COMPLETE ASSEMBLIES.**

3. Cut and frame an opening in the outside wall and in any ceiling openings properly sized for the wall thimble or ceiling firestop spacer you will be using (See component manufacturer's instructions). The outside wall hole must be positioned so the vent system will have a ¼ " per foot 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 is required at any floor (ceiling) opening.
4. Connect a 45° elbow 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 # 45-01-00234) 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. 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 the wall or siding. If the Horizontal Vent Cap is installed on a wall covered with Vinyl, Wood or a Combustible siding material, always install the Mendota Heat Shield #AA-11-00458.

B - 1 VERTICAL THROUGH-THE-ROOF VENTING

The maximum vertical run of vent pipe is 40 ft. from the top of the fireplace. The fireplace will support a run of a maximum of 40 ft. Maintain 1" air space clearances on all sides of vents (2" above horizontal vents).

IMPORTANT: REFER TO DRAWINGS ON PAGES 10 & 11 WHILE FOLLOWING THESE INSTRUCTIONS.

The DXV-60 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 12" x 12" 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 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). Be sure 2000° sealant is used on the inner pipe joints of all adjustable (telescoping) pipe sections.
5. Cut a 12" x 12" 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 a one foot pipe section rise from the 90° elbow to the vent cap or to the next offset. A maximum of three (3) 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.

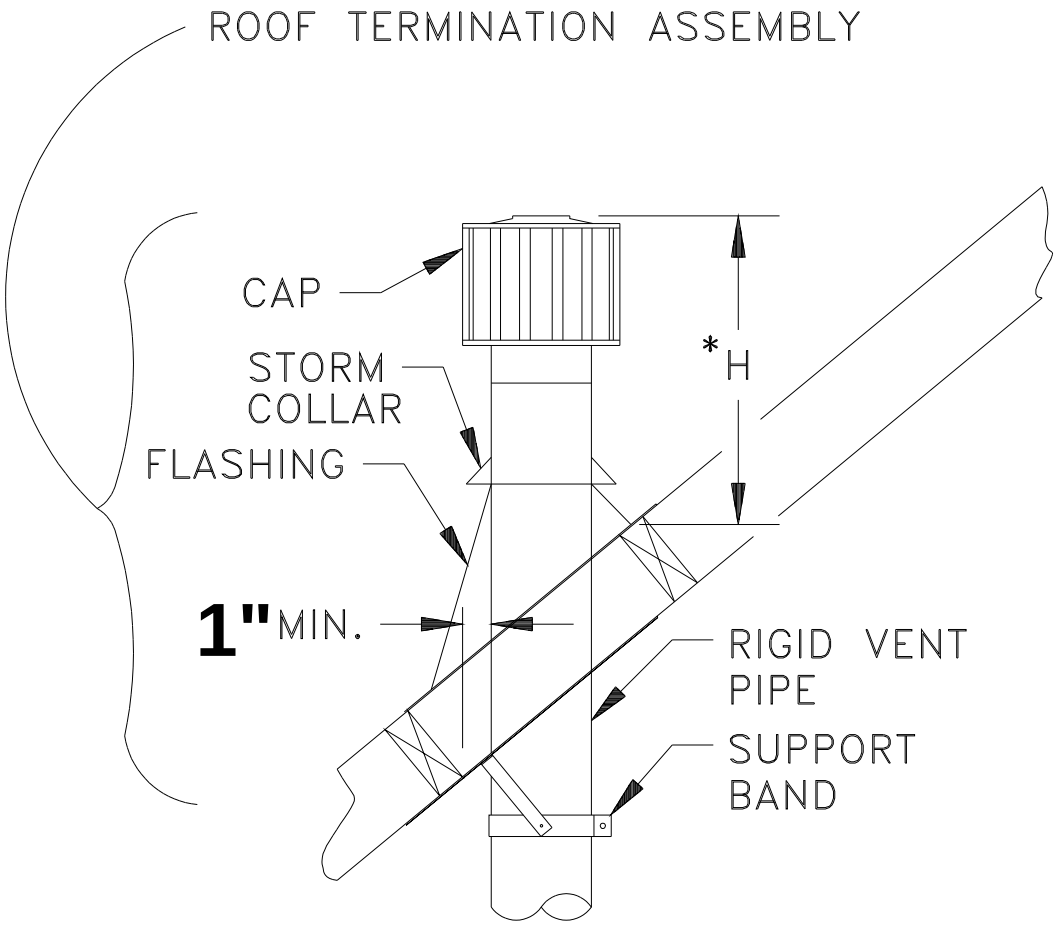
   a) For multi-story vertical installation, a ceiling firestop is required at the second floor and any subsequent floors. The opening should be framed to 10" x 10" inside dimensions as described in step No. 5.

   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:

	"H" DIMENSION	
ROOF PITCH	**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 and vent cap.



MENDOTA DESIGNER FRONTS INSTALLATION INFORMATION

The following Designer Fronts are available for the DXV-60 Fireplace:

1. Andover, Bentley Arched Door Kit or Prairie Rectangular Door kit with Fire screen with optional Overlays as listed below:
    a. Black Overlay
    b. Pewter Overlay
    c. Antique Copper Overlay
    d. 24K Gold
2. Deerfield Cast Scrolls Front
3. Wellington Firescreen Front
4. Black or 24K Gold Victoria Filigree
5. Black or 24K Gold Tuscany Filigree
6. Millenia Flat Grills in two optional color schemes as listed below:
    a. Black Millenia Flat Grills
    b. Full Brass Millenia Flat Grills

Information specific to the installation of the Andover, Bentley and Prairie Fronts

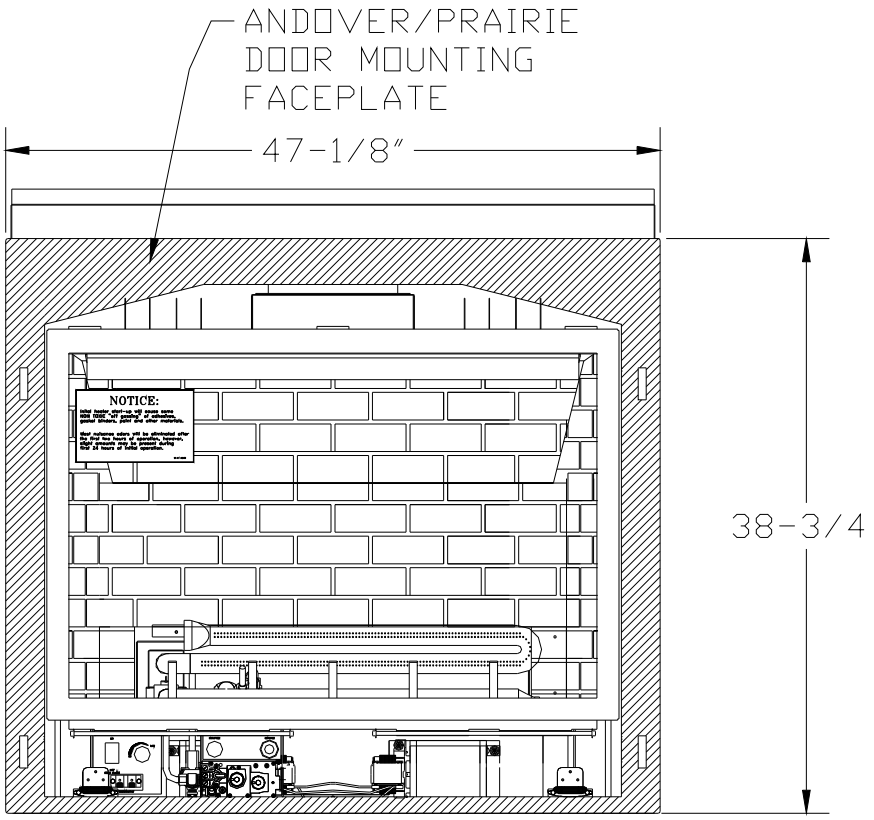
The Andover Door, Bentley Door and Prairie Door Fronts are designed to be "Full-Face" trim kits. These two Fronts cover an area equivalent to that shown in the diagram below. Any material that protrudes into this area on the sides, top or bottom edges can only be flush with the front surface of the fireplace faceplate.

If planning to install either the Andover Door or the Prairie Door Front, **DO NOT COVER THE FACEPLATE OF THE FIREPLACE WITH ANY MATERIALS**. Furthermore, any drywall or wall covering material that is adjacent to the sides, top or bottom of the Fireplace's faceplate may not protrude out past the front surface of the Fireplace Faceplate's front surface.

The Andover, Bentley and Prairie Doors Mounting Faceplate (required for installation of the Andover, Bentley and Prairie Doors) may be covered over with noncombustible facing materials. See Figure below.

To install Tile, Marble, Slate, Stone, Rocks or other noncombustible facings to enhance the arch shape of the Andover Doors or the Rectangular shape of the Prairie Doors, do so only after the Andover or Prairie Door Kits have been installed on the DXV-60 Fireplace.

WARNING: COMBUSTIBLE MATERIALS MUST NOT COVER THE FRONT SURFACE OF THE FIREPLACE'S FACEPLATE.

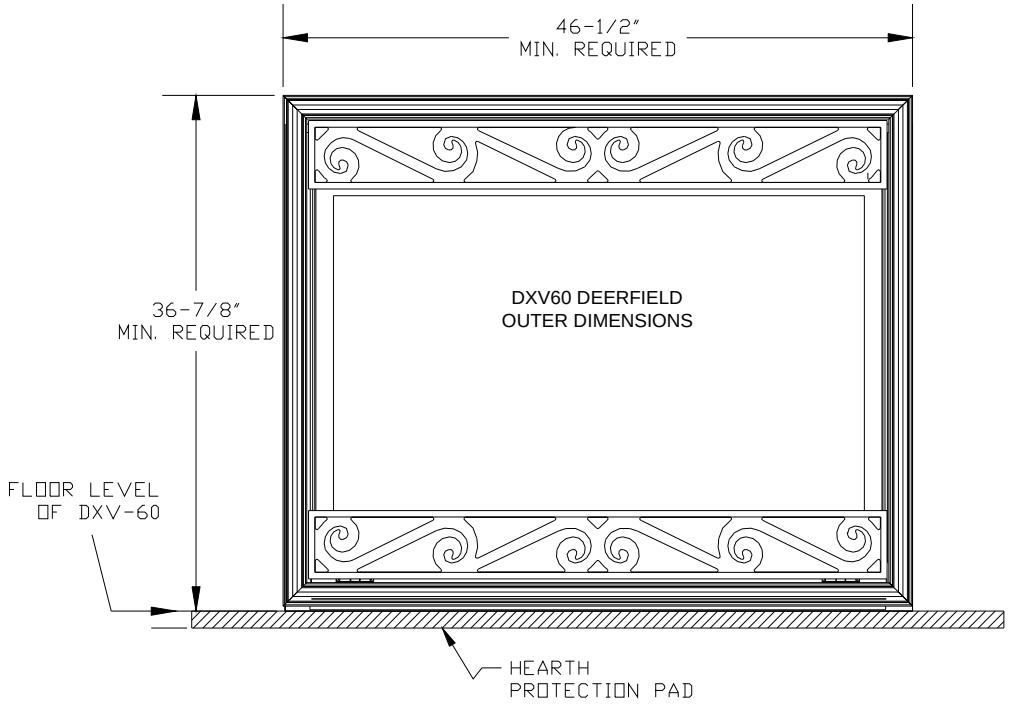


Deerfield Front Specific Information

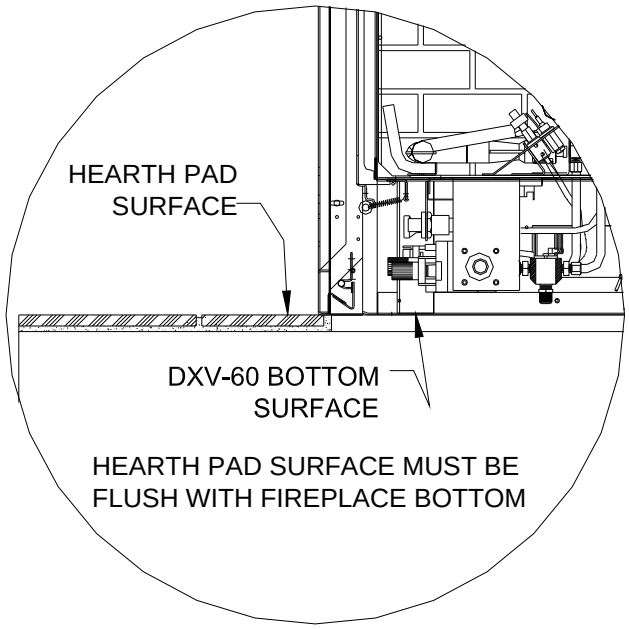
The Deerfield is a full face front. DO NOT COVER THE FACEPLATE OF THE FIREPLACE WITH ANY MATERIALS. Furthermore, any drywall or wall covering material that is adjacent to the sides, top or bottom of the Fireplace's faceplate may not protrude out past the front surface of the Fireplace Faceplate. The Minimum Required dimensions shown, in the diagram below, must be left bare and uncovered.

Hearth Protection Pad Installation Information when planning to Install the Deerfield Front

If planning to install the Deerfield Front, the hearth protection pad installed in front of the DXV-60 Fireplace must be designed, built and installed so that the hearth protection pad's top surface is flush with the bottom-most surface of the DXV60 Fireplace.



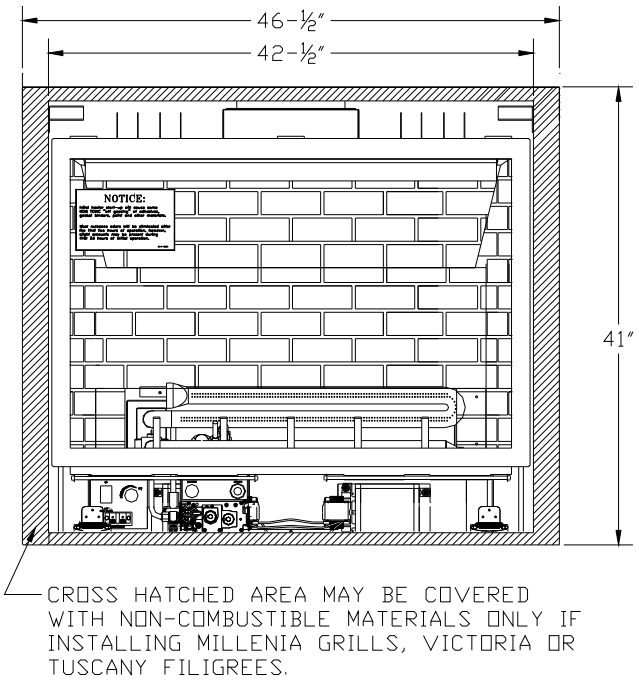
WARNING: COMBUSTIBLE MATERIALS MUST NOT COVER THE FRONT SURFACE OF THE FIREPLACE'S FACEPLATE.



Information specific to the installation of Millenia Flat Grills, Victoria Filigrees and Tuscany Filigrees

The Millenia Flat Grills, Victoria Filigree and Tuscany Filigree are designed to be "inside-fit" trim kits. All of these trim kits fit within the inner perimeter of the Fireplace's Faceplate and remain flush within the Faceplate's front surface, see Figure at right-side. This fitting method allows flexibility in covering the black visible surface of the Faceplate with non-combustible materials, only, such as Tile, Marble, Slate, Stone and Brick; as long as enough room is allowed for the removal of these Mendota Designer Fronts and the glass door for servicing.

WARNING: COMBUSTIBLE MATERIALS MUST NOT COVER THE FRONT SURFACE OF THE FIREPLACE'S FACEPLATE.

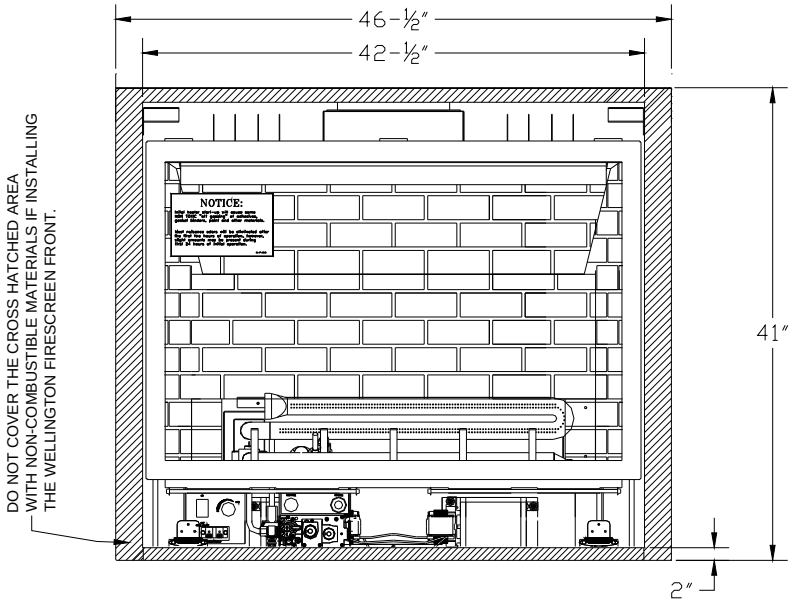


Information specific to the installation of the WELLINGTON FIRESCREEN FRONT:

The Wellington Firescreen Front is designed to be a "full face" trim. The top and sides of these trim kits cover the perimeter of the Fireplace's Faceplate. Therefore, DO NOT COVER THE BLACK BORDER OF THE FIREPLACE FACEPLATE WHEN INSTALLING THE WELLINGTON FIRESCREEN TRIM.

Hearth Protection Pad Installation Information when planning to Install the Wellington Front

If planning to install the Wellington Front, the hearth protection pad installed in front of the DXV-60 Fireplace must be designed, built and installed so that the hearth protection pad's top surface is flush with the bottom-most surface of the DXV60 Fireplace.



DXV DOOR OPERATION

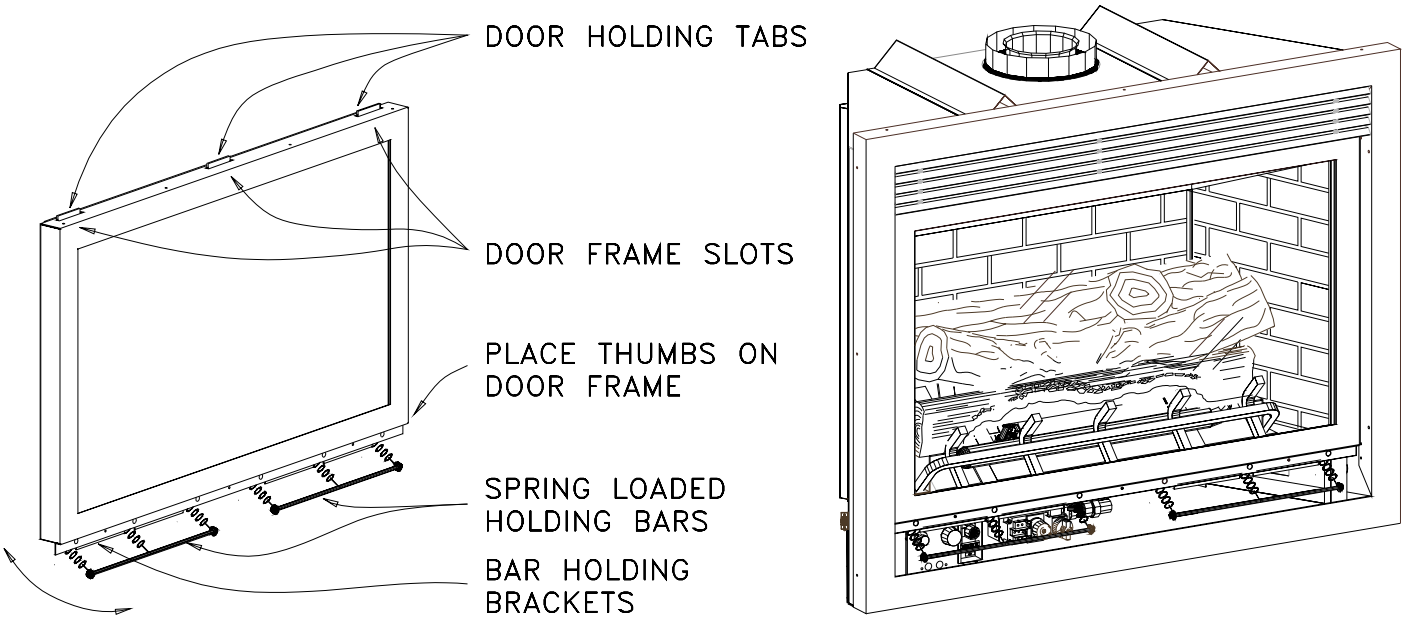
TO REMOVE DOOR

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 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. The spring-loaded door is a pressure relief safety system and must be positioned as shown.



WARNING: DO NOT SEPARATE THIS APPLIANCE WITH THE GLASS REMOVED, CRACKED OR BROKEN. REPLACEMENT OF GLASS SHOULD BE DONE BY A LISCENSED OR QUALIFIED SERVICE PERSON.

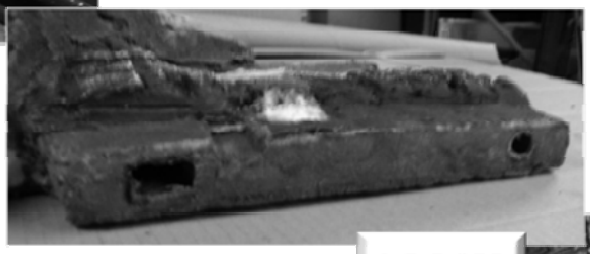
COAL BED AND LOGS INSTALLATION

Carefully unpack the shipping boxes containing the coal bed sections and logs and remove them gently from the foam packing.

Note: Each coal bed and log is ”lettered” on its underside.

DXV45/60 Log Placement

1. **Burn fireplace for 1 minute to cure burners. Turn off gas to fireplace.**
2. **Paint front burner tube with high temperature black paint.**



LOG “C”

3. **Locate Log "C". Back left log.**
4. **Locate holes on bottom of log.**

5. **Place log "C" onto the 2 left pins behind the rear burner as shown.**
6. **Do not push down at this time**

KNOB on LOG “C”

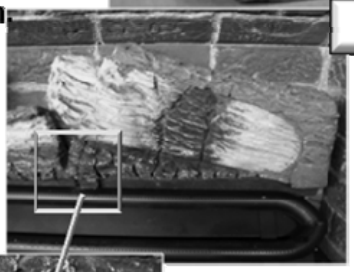
7. **Locate KNOB on Log "C" as shown.**
8. **If knob interferes with log "C" sitting directly on the air box. trim off knob with utility knife. This will allow log to push down onto the pins and set directly on the airbox. Make sure there is no air space directly under this log.**

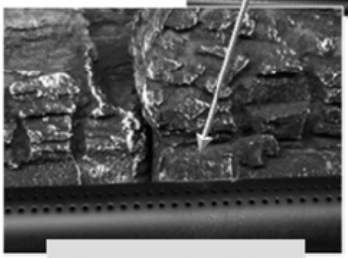
9. **While pushing log "C" down. put your fingers behind the top of log "C" to get a slight angle forward of about 10 degrees.**

10. **Log "C" installed correctly as shown.**

11. Locate Log "B". Back right log.
12. Locate holes on bottom of log.
13. Place log "B" onto the 2 left pins behind the rear burner as shown.
14. Do not push down at this time

LOG "B"



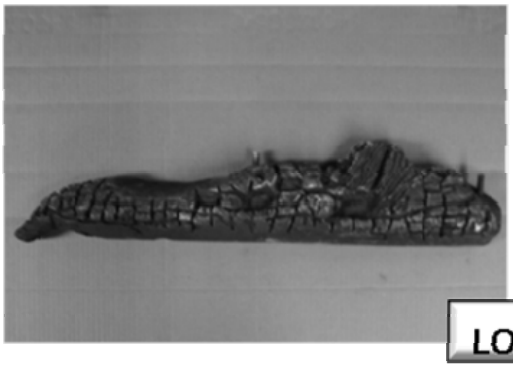


KNOB on LOG "B"

15. Locate KNOB on Log "B" as shown.
16. If knob interferes with log "B" sitting directly on the air box. trim off knob with utility knife. This will allow log to push down onto the pins and set directly on the airbox. Make sure there is no air space directly under this log.

17. While pushing log "B" down. put your fingers behind the top of log "B" to get a slight angle forward of about 10 degrees.

Log "B" installed correctly

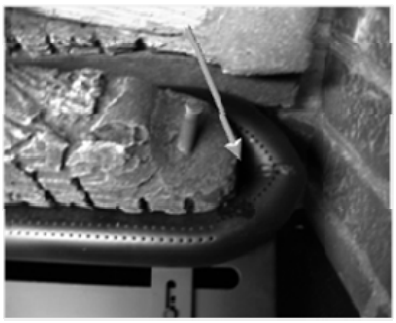


18. Locate Log "D". This log will be installed between the front and back of the rear burner tube as shown below.
19. Locate bottom of log "D".

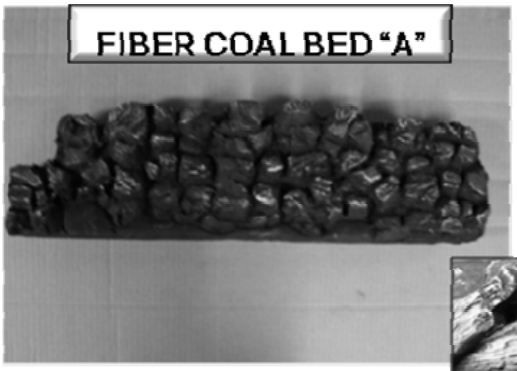
LOG "D"

20. Log "D" will push up to the right side so it will but up against the inside curve of the rear burner tube.

Push log "D" up to inside curve or burner.

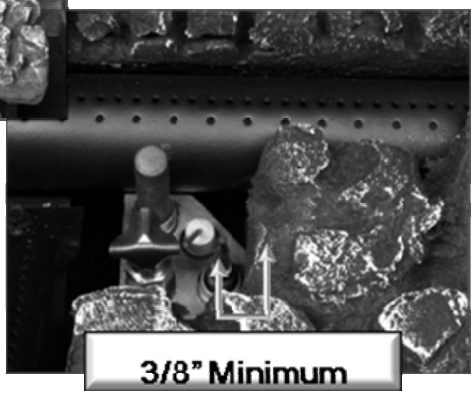


21. Log "D" will be tipped slightly forward to a maximum of a 10 degree angle. Log "E & F" will hold log "D" in place in later steps.



22. Locate Fiber Coal Bed "A". This Fiber Coal Bed will be installed between the front burner and the front of the rear burner tube as shown below.

23. The Fiber Coal Bed "A" is placed directly behind the front burner. The Coal Bed should be level with the top and but right up against the backside of the front burner tube.

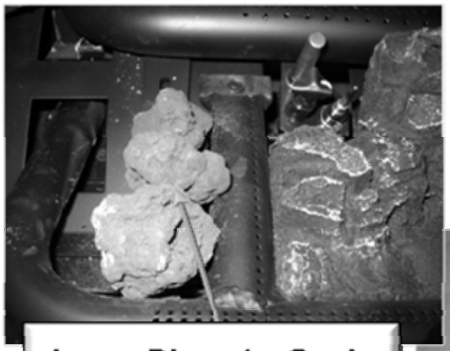


24. Slide Fiber Coal Bed "A" to the left as far as possible. Make sure you have a minimum of 3/8" between thermocouple and coal bed. If not slide coal bed to right.

25. Locate Log "F". Then locate the hole in the bottom of the log.

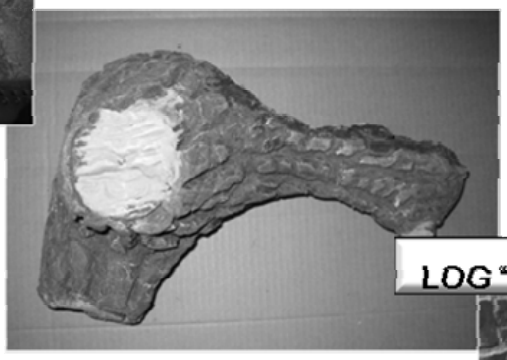
26. Log "F" will be installed on the right side of the fireplace. with the hole on the bottom of the log setting on the right pin in log "D".

27. The front end of log "F" will be resting to the right end of the front burner tube as shown.



Large Diameter Coals

28. Locate large diameter coals. Place several large coals to the left side of the burner tube coming from the pilot light to the front burner.



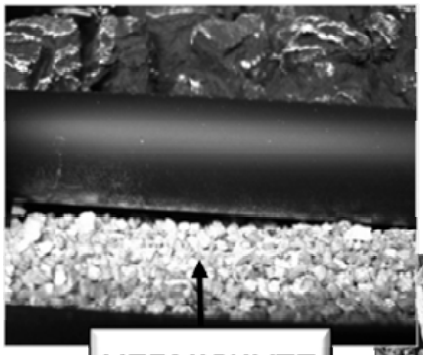
LOG "E"

29. Locate Log "E". Then locate the hole in the bottom of the log.

30. Log "E" will be installed on the left side of the fireplace. with the hole on the bottom of the log setting on the left pin in log "D".

31. The front end of log "E" is notched. The notch will be resting on the left end grate bar.

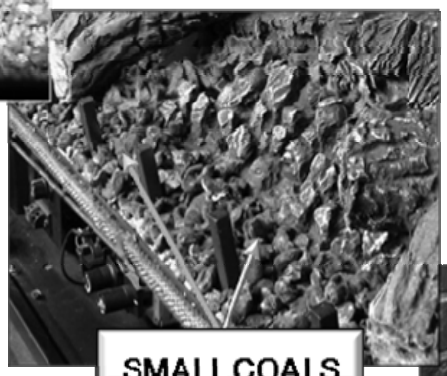
Log "E" position on front grate



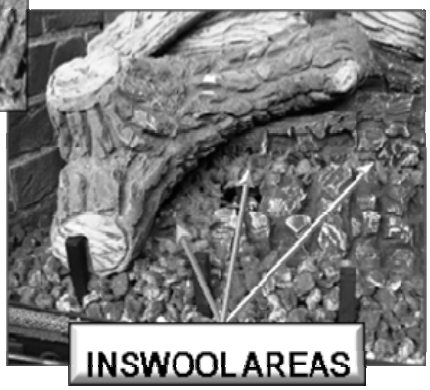
VERMICULITE

32. Place vermiculite in front of front burner. Only bring vermiculite level to BOTTOM of front burner. Save a little vermiculite for final cosmetics.

33. Place small coals over vermiculite. Bring small coals above and over top of front burner tube and gas ports in a single layer. Small coals should not extend back more than 1" behind front burner tube. DO NOT cover gas ports on top side of burner with vermiculite.

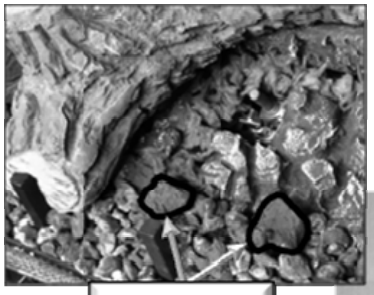


SMALL COALS



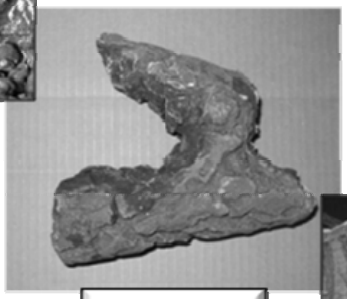
INSWOOL AREAS

34. Put Inswool on burner tube that comes straight down from the pilot. Bridge Inswool over large coals to burner ports. Also. bridge Inswool over middle burner tube. between Coal Bed "A" and Log "D". Make sure Inswool is torn in small thin pieces. the size of a dime or smaller and put in a single layer.



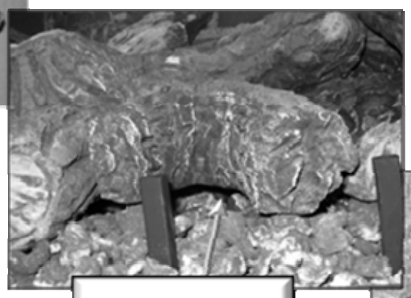
COALS

35. Place TWO large diameter coals on Fiber Coal Bed "A" as shown in the picture. These coals are placed in this specific location to support log "H".



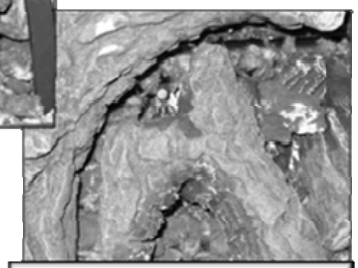
LOG "H"

36. Locate Log "H". Log "H" will sit directly onto the two large coals just installed. The "Y" ends of the log sit on the two large coals.

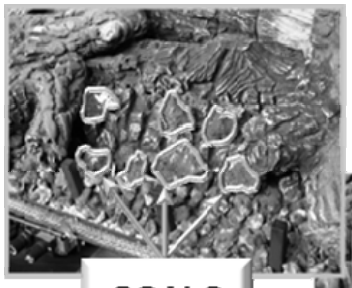


AIR SPACE

37. The back of the log "H" is notched to display pilot light as shown. Log "H" is raised up on the two large coals to allow air and gas to flow freely. This results in more flames and glowing in this area while concealing the pilot light.



LOG "H" POSITION



COALS

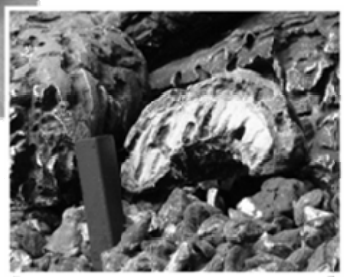
38. Place large diameter coals on Fiber Coal Bed "A" as shown in the picture. Coals are placed with a 3/8" minimum space between coals. Leave area as shown with no coals, as back of log "I" will sit there.

TWO COALS

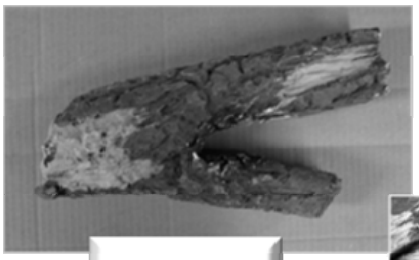
39. Place TWO large diameter coals on Fiber Coal Bed "A" as shown in the picture. These coals are placed in this specific location to support log "I".

LOG "I"

40. Locate Log "I". Log "I" will sit directly onto the two large coals just installed. The front end of the log will sit on the two large coals as shown. The back of log "I" will sit directly on Fiber Coal Bed "A". Having log "I" raised up on the two large coals, allows air and gas to flow freely. This results in a cave affect that glows and flames that will come out front of log "I".

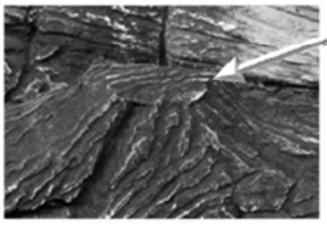


LOG "I" POSITION



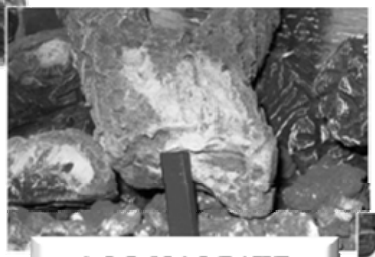
LOG "G"

41. Locate Log "G". The top of log "G" is the "Y" portion of the log.



KNOT ON LOG "D"

42. The right branch of the "Y" log will sit on the knot on log "D".



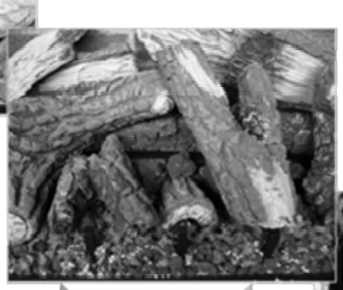
LOG "G" GRATE POSITION

43. The bottom of log "G" will sit on the 2nd grate bar from the right side as shown. The grate bar will hold the log up allowing gas and air to circulate.

LOG "G" POSITION

Left Side Coals

44. Place remaining small and large coals on right and left side of fireplace floor. This is for cosmetics only.



INSWOOL

45. Bridge burner tube area in a thin layer of inswool as shown. Make sure inswool is torn in small thin pieces. the size of a dime or smaller. DO NOT pack inswool in place. Inswool should be dropped in place as this will keep the inswool fluffy and let air and gas circulate thru creating a realistic fire.

Right Side Coals

46. Place a small amount of inswool and vermiculite over the small coals for cosmetics. NEVER install vermiculite behind the front burner tube or on Fiber Coal Bed "A".

FINAL LOG PATTERN

COMPLETED LOGS AND COAL BED ASSEMBLY EVALUATION

See the picture, shown below. This picture shows the recommended log positions. Slight variations in the position of each log is allowed. However, if any log position is significantly out of position in comparison to the diagram below and if any flames are floating off the burner surface after 10 minutes of starting the fireplace, turn off the fireplace and contact your installer or fireplace dealer. Have the Installer/Dealer adjust the log positions and also conduct a thorough evaluation of the venting configuration to make certain that the venting configuration conforms to Mendota's venting requirements, listed in this Installation and Operations Manual.

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° sealant must be used on the inner pipe joints of all adjustable pipe sections (Dura Vent only).
- ❑ 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 PAGEs 8-18.)
- ❑ Carefully check for correct gas pressure, proper size gas lines (see PAGEs. 6 & 7) and for gas leaks.
- ❑ 120 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 gas valve's TH and THTP terminals. See PAGE 37.
- Perform Leak Test on **ALL** gas fittings on gas train using soap-water solution or a calibrated combustible gas detector.
- ❑ System millivolt readings (see PAGE 37) 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" LP gas (see PAGE 35).
- ❑ 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 vent pipes are twist-locked and leak proof and vent cap is "right side up".
  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 PAGE 22).

LIGHTING INSTRUCTIONS

IMPORTANT: Be sure all items on "INSTALLATION CHECK OFF LIST" (PAGE 30) 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. Remove glass door (see PAGE 22) - ALWAYS LIGHT PILOT WITH GLASS REMOVED!
2. Make sure any gas supply shut-off cocks are open and Thermostat is "OFF".
3. Push in Gas Valve Control Dial Slightly and turn clockwise to "OFF". NOTE: Dial cannot be turned from "PILOT" to "OFF" unless dial is pushed slightly. DO NOT FORCE!
5. 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 Valve Control Dial Counterclockwise to "PILOT" position (see Figure 6).
6. Depress Gas Valve Control Dial and push in red Piezo igniter button. Once pilot ignites, continue depressing dial for about ½ minute. If pilot does not remain ignited, repeat operation allowing a longer period before releasing Gas Valve Control Dial.

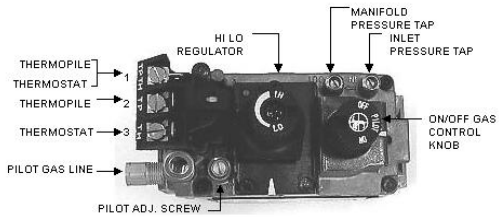
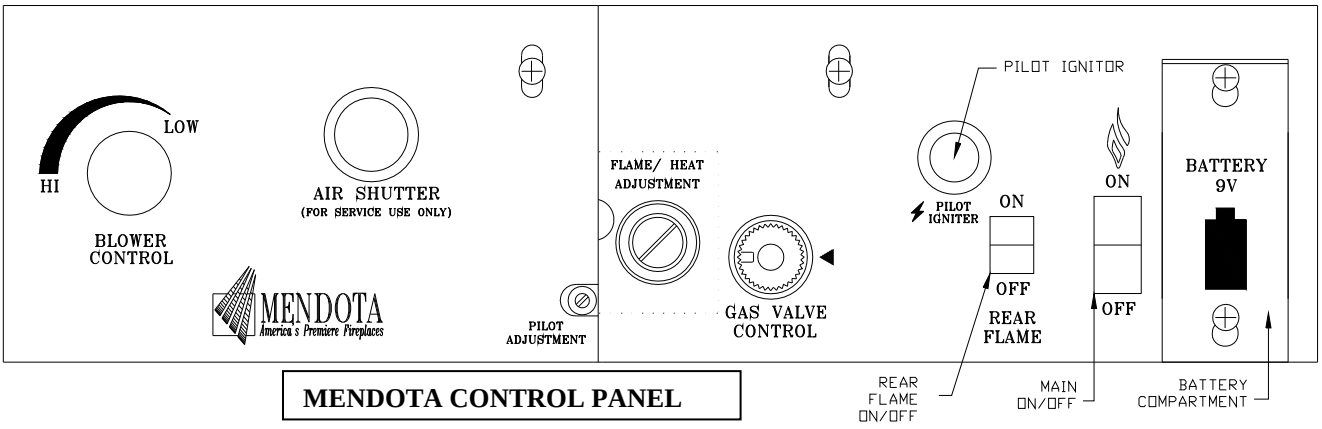


FIGURE 5: Gas Valve



MENDOTA CONTROL PANEL

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 PAGE 37)

7. Push Rear Flame ON/OFF switch to “on”. See diagram above.
8. After pilot is lit and before installing logs, turn Gas Valve Control 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.
9. With pilot operating, install log module and coals (see PAGEs **Error! Bookmark not defined.**-28). 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.

NOTE: Logs will produce a strong, acrid odor on initial contact with flames. The odor will dissipate after 3 hours of initial burn.

10. Reinstall glass front 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 doorframe. Raise Bars and fit Bars firmly into Bar Holding Brackets on door frame (see instructions PAGE 22).
11. NOTE: Be sure doorframe 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.
12. Turn Gas Valve Control Dial counterclockwise to "ON" and push Main ON/OFF switch to ON position then set Thermostat or push Remote Control to turn on burner.

13. 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!
14. To reduce heat output, turn Hi/Lo Knob counterclockwise to desired temperature (see PAGE 31).
    Heat output can be reduced to 29,000 BTUH using the Hi-Lo Control. NEVER "over fire" by increasing BTUH above nameplate specifications. NEVER turn down (reduce) pilot flame below the minimum 250 millivolts.
15. To reduce the flame and heat down to 9,500 BTUH., use the rocker switch (see step 7) to turn off rear burner.

NOTE: The rear burner is controlled by a 9 Volt DC solenoid valve. One 9 volt cell battery (located behind the control panel) provides power for this unique feature. Replace with a new high quality battery annually.

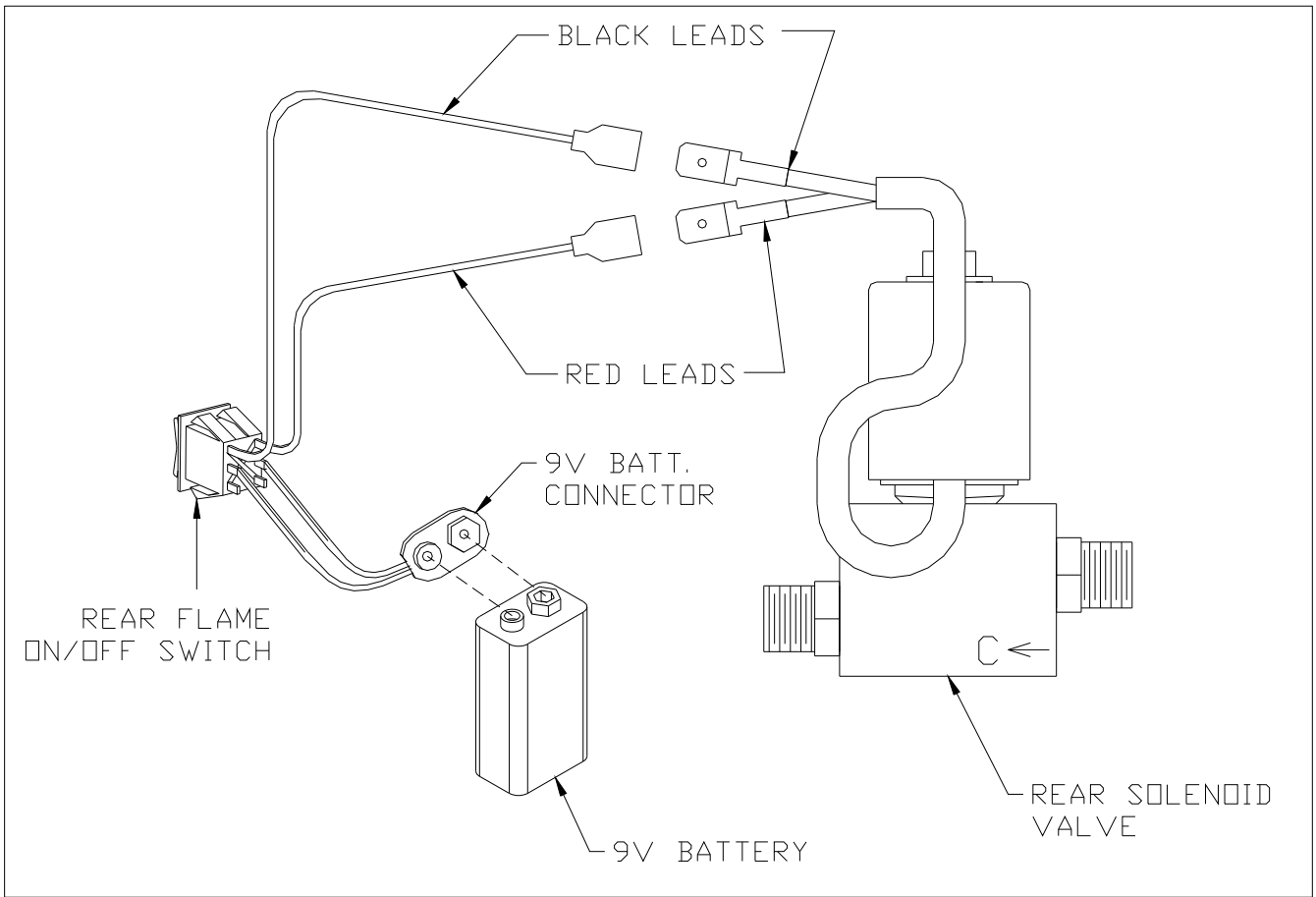
16. Open windows for first two hours of operation.

NOTICE: Initial heater start-up will cause some NON TOXIC "off gassing" of adhesives, gasket binders, paint and other materials. Most nuisance odors will be eliminated after the first two hours of operation; however, slight amounts may be present during first 24 hours of initial operation. To eliminate all nuisance odors, continuously operate this fireplace on the HIGH setting for 8 to 12 hours.

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 PAGE 30) to "OFF".

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



REAR BURNER FLAME CONTROL VALVE, SWITCH AND BATTERY CONNECTION WIRING DIAGRAM

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.

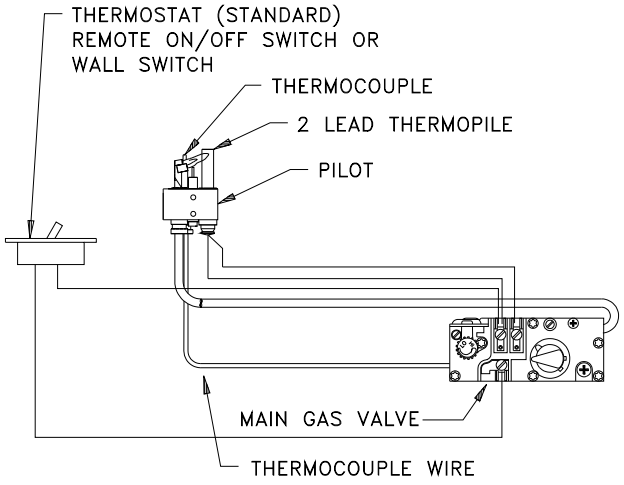
NOTE: If thermostat is located over 25 ft. from fireplace the pilot flame may need to be increased up to 450 millivolts.

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.



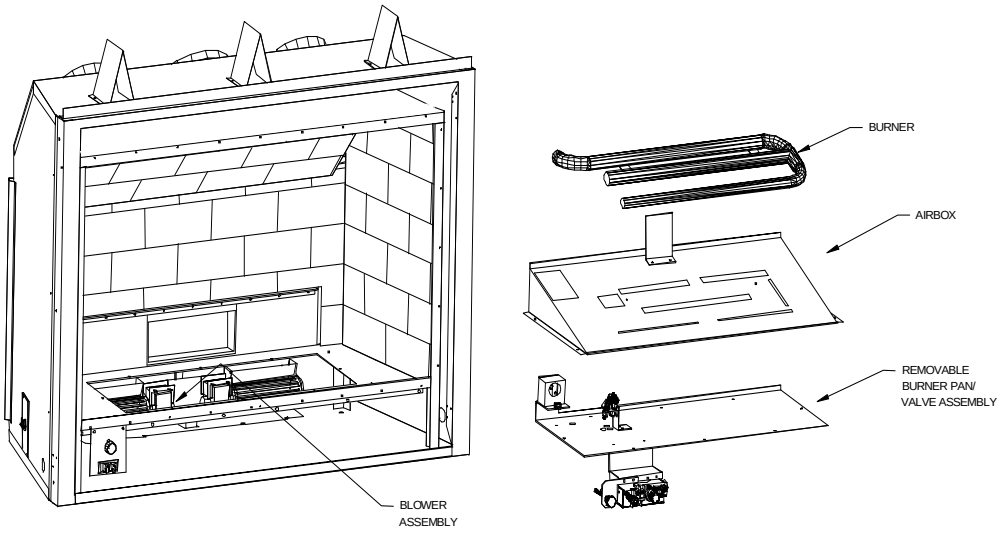
THERMOSTAT WIRING DIAGRAM

85-03-514

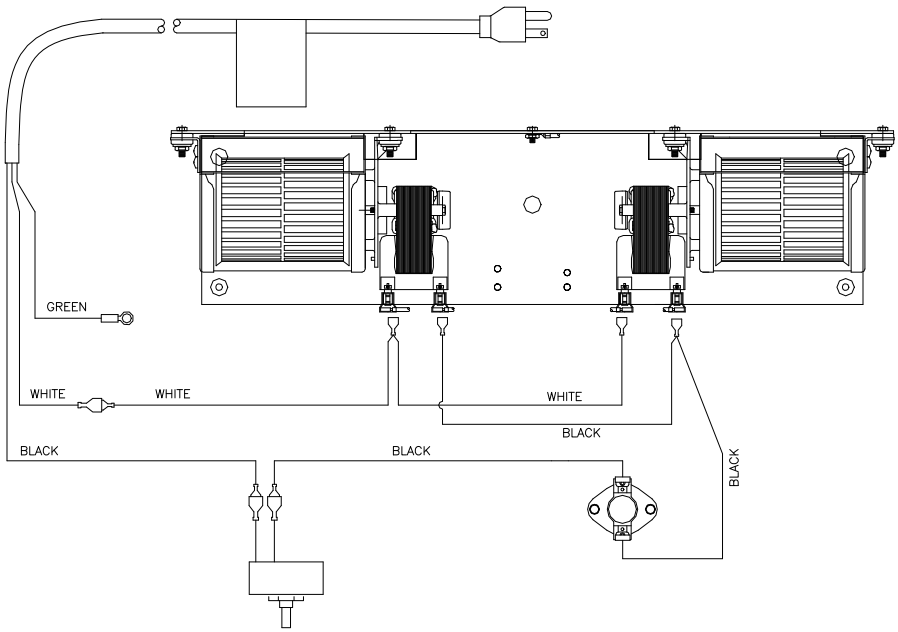
Figure 6: Thermostat Wiring
NOTE: Thermostat must be 250-750 millivolt rated.

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

MENDOTA BLOWER & BURNER REMOVAL & 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.

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. MAX Nat. Gas; 11" W.C. MAX 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 a soft cotton cloth or a dry paper towel.
2. Humming or whistling coming from Fireplace.	A. Normal operating noise.	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.

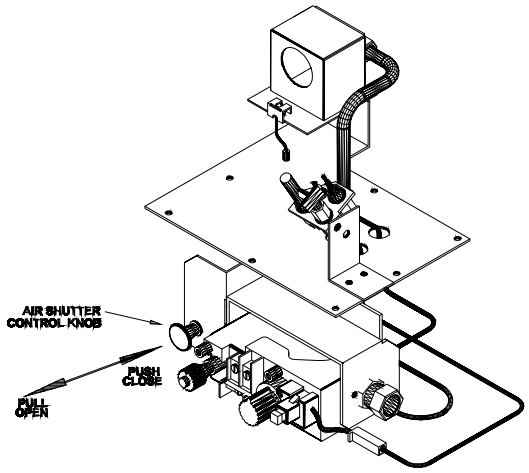


FIGURE 7: Air Shutter Control

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 PAGEs **Error! Bookmark not defined.**-28). After burner has been properly installed and operated for two to three 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 knob is behind the lower grill.
2. If flame is too "blue" slowly push air shutter control knob in small 1/16" increments until flame turns desired realistic "orange."
3. If flame is too "orange" or is causing sooting on viewing glass pull air shutter control knob 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 PAGEs **Error! Bookmark not defined.**-28)
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 far below these safety limits.

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 PAGE 37.)
If pilot goes out, be sure and wait a minimum of 5 minutes before re-lighting. Always remove glass door before 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, Kel Kem Glass Cleaner or equivalent. 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 think 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. Hot air convection may be improved by removing upper grill. During a power outage, hot air convection must be improved by removing upper grill of the Millennia Fronts, opening the doors on the Andover and Prairie Fronts and opening the screen on the Wellington Front. Remove any inner grills that may cause air flow restriction. Replace these parts for operation after the unit has cooled completely and power is restored.

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 built-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 PAGEs **Error! Bookmark not defined.**-28.
   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 PAGE 31). Pilot must read a minimum of 250 millivolts. Be sure all items in LIGHTING and INSTALLATION "check off " lists are completed (see PAGE 30).
   F. Before re-installing glass, have qualified service person check for door gasket condition and proper seal. If gasket is deteriorated or does not seal properly, replace door gasket.
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, Thermo-stat turned "OFF" and Main Burner "OFF". To increase or decrease millivolts, (and pilot flame) adjust pilot screw on control (see Figure 11, below).
   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, below).

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	THERMO-PILE 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

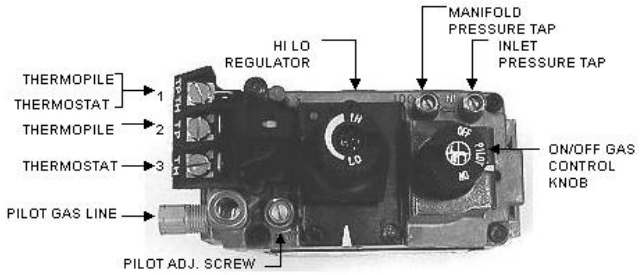


Figure 8: Millivolt Readings

2. **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. Do Not use oven cleaner or abrasive cleaners to clean glass. DO NOT CLEAN WHEN GLASS IS HOT.
3. **ANNUAL 9V BATTERY REPLACEMENT**: Replace the 9Volt Battery required for rear burner flame on/off operation once a year. The battery is located behind the Battery Compartment Lid on the Control Panel (see page 30). Loosen the two Phillips head screws one turn each and lift the Battery Compartment Lid up and out. The battery is held in place with a spring clip. Disconnect the battery lead wires and replace the battery with a high quality 9Volt battery. Make certain the Battery Connection terminals are at the bottom when mounted in place.
4. **PERIODIC VISUAL CHECK OF BURNER AND PILOT FLAMES IS REQUIRED**.

NATURAL TO LP GAS CONVERSION

HA-40-00127

This conversion must be made by a qualified service technician.

A Natural Gas to LPG conversion kit #HA-40-00127 can be purchased separately for the DXV60 Fireplace. This conversion kit is available through your local Mendota Dealer.

LP Conversion Kit #HA-40-00127 contains the following parts: One LP Pressure Regulator, One LP Pilot Orifice Thimble, One Cap Orifice drill #48 (for rear burner) and One Cap Orifice drill #55 (for front burner). Specifically, identify the Rear and Front Burner Cap Orifices. Use proper sized drill bits' shaft ends to verify orifice sizes.

WARNING: IT IS OF THE UTMOST IMPORTANCE THAT THE CORRECT BURNER ORIFICE BE INSTALLED FOR BOTH THE REAR AND FRONT BURNERS.

1. Turn off gas supply at the appliance service valve. Identify the Pressure Regulator on the Valve Body, see Figure 11 on PAGE 38.
2. Using a ¼" flat blad screwdriver, remove 3 screws that secure the NG Pressure Regulator to the gas valve body and remove NG Pressure Regulaor as shown on PAGE 38. Identify the pressure regulator spring that is located in the center of the black rubber gasket. Discard both the black rubber gasket and spring.
3. Install the new LP Pressure Regular onto the gas valve body in the same position and orientation as the NG Pressure Regulator you removed in Step 2, above. The LP Pressure Regulator can only be mounted in one positon. Secure the LP Pressure Regulator in place using the 3 screws you removed in Step 2. Tighten down using a ¼" flat blade screw driver.
4. Remove both Rear and Front Burners. Locate and Identify the Rear Burner Orifice Spud and the Front Burner Orifice Spud. Both Front and Rear Orifice Spuds are removed and installed using a ½" deep well socket and ratchet.
5. Install Rear Burner Orifice #HA-39-00151 (#48 drill) for the Rear Burner. Tighten down securely.
6. Install Front Burner Orifice #HA-39-00152 (#55 drill) for the Front Burner. Tighten down securely.
7. Install pilot orifice thimble #05-04-00036 (.014") see Figure 9 for location. Remove and install pilot hood with 7/16" open-end wrench. (pilot orifice thimble is located inside pilot hood base).
8. Air Shutter Adjustments:
   Rear Burner Flame: Air shutter adjustment can be made using the Air Shutter Control Knob located on the Control Panel. Normally, for LPG application, pull the Air Shutter control Knob outward ½ inches. Depending on venting configuration, the Air Shutter Knob may need to be pulled further outward to provide more primary air.
   Front Burner Flame: Air shutter adjustment must be made before installing the front burner inside the firebox. Locate the rotary shutter and the set screw. Using a Phillips Screw Driver, loosen the set screw and rotate the air shutter open 1/8 inches. Further adjustment to this shutter opening may be necessary depending on the venting configuration and the flame color and glow effect desired.
   NOTE: IF SOOT DEPOSITS LARGER THAN 1/2 INCHES DIAMETER ARE OBSERVED ON ANY OF THE LOGS, THE FRONT AND/OR REAR AIR SHUTTER OPENINGS MUST BE ENLARGED.

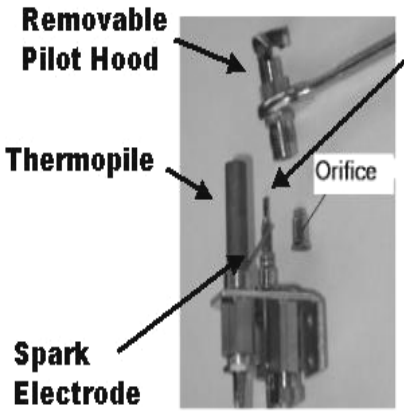


Figure 9

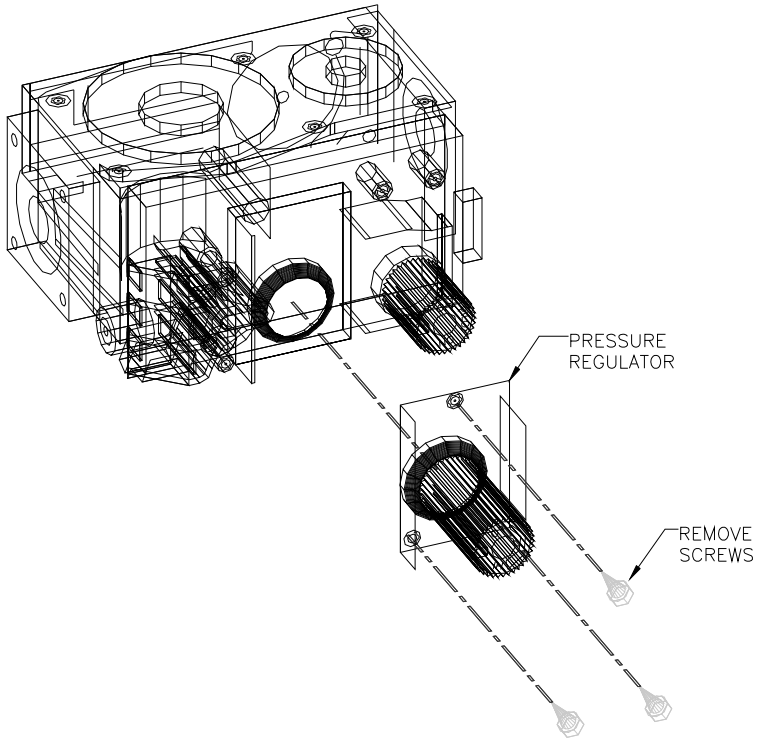
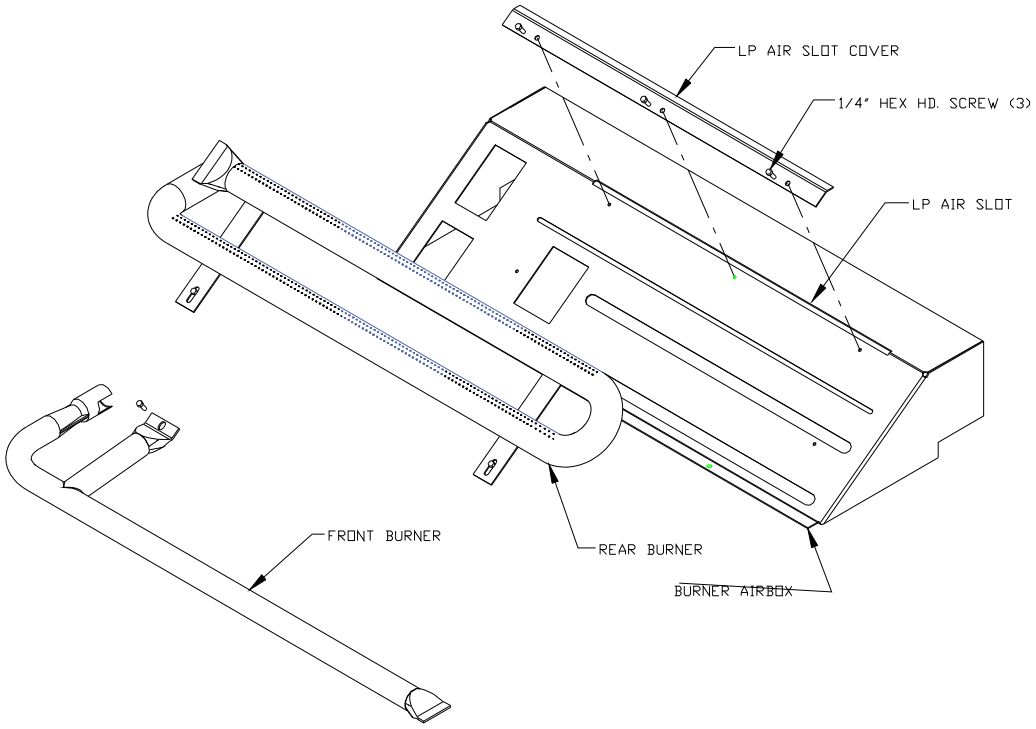


Figure 10



During the LP conversion process, also remove the LP Air Slot Cover shown in the diagram above and discard.

WARNING: Failure to remove and discard the LP Air Slot Cover will result in rapid soot buildup on the rear logs.

REPLACEMENT PARTS LIST

MENDOTA GAS DXV-60 FIREPLACE

PART NO	DESCRIPTION		PART NO	DESCRIPTION
HA-39-00049	DOOR TADPOLE GASKET		05-04-00035	PILOT ASS'Y. NAT.
65-02-00098	VALVE ASSEMBLY GASKET		05-04-00036	LP PILOT ORIFICE
65-06-00614	GLASS - FLAT		05-07-00067	THERMOCOUPLE
HA-40-00006	DOOR FRAME ASS'Y. – FLAT		HA-40-00127	LP KIT-SIT VALVE
			65-14-00030	REAR ORIFICE (Nat. Gas) # 30”
35-01-00320	LOG SET-DEEP TIMBER 8 PIECES		65-14-00043	FRONT ORIFICE (NAT. Gas) # 43
			65-14-00048	REAR ORIFICE (LP Gas) # 48
35-01-00239	GLOWING INSWOOL		65-14-00055	FRONT ORIFICE (LP Gas) # 55
AA-11-00711	CLINKER FIREBRICK KIT -2003		65-06-00149	PIEZO IGNITER
35-01-00311	LARGE CHUNK COALS		05-07-00061	THERMOPILE
			05-01-00118	THERMOSTAT (Wall Mount)
HA-40-00122	REAR BURNER WELDMENT		05-01-00157	SNAP-DISC (FAN TEMP SENSOR)
70-01-00079	FRONT BURNER		10-01-00003	RHEOSTAT
05-02-00281	SIT VALVE - NATURAL GAS			
05-02-00293	VALVE NAT. GAS		15-02-00059	RIGHT HAND BLOWER - ONLY
			15-02-00060	LEFT HAND BLOWER - ONLY
10-03-00068	REAR FLAME WIRING W/ SWITCH			
05-02-00308	REAR FLAME ON/OFF VALVE			
			65-06-00602	BLACK PAINT - 12 OZ. SPRAY CAN
			65-06-00455	KEL-KEM GLASS POLISH

FLAT DOOR ASSEMBLY REPLACEMENT PARTS
HA-40-00006

ITEM NO.	QTY	PART NUMBER	DESCRIPTION
1	2	HA-39-00014	GLASS CLIP
2	1	HA-39-00013	DOOR FRAME
3	2	HA-39-00091	HORIZONTAL GLASS GASKET
4	2	HA-39-00092	VERTICAL GLASS GASKET
5	1	65-06-00614	GLASS
6	6	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.

"CERTIFICATION LABEL REPRESENTATION"

DXV60

Also for use in mobile (manufactured) homes after first sale of home.
Tested to ANSI Z21.88-2002 – CSA 2.33-2002

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	60,000	59,000
Orifice (DMS) 0-610 m	#43 & 30	#48 & #55
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 (Mfg.) home installations must adhere to Title 24 CFR, Part 3280.

MINIMUM CLEARANCES FROM COMBUSTIBLE CONSTRUCTION

Unit to floor	1/8 in.
Unit to enclosure sidewalls	0 in.
Unit top to ceiling	4 in.
Vent to enclosed	2 in.
Wall Pass-Through to framing	1 in.
Vent to adjacent sidewall	6 in.
Mantle above discharge air opening	18 in.

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

Electrical Rating: 120 volts 60 Hz Less than 1 Ampere; Less than 120 Watts

---

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

WH# _____

NOTES

NOTES

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. Optionally, please register at our website at: WWW.JOHNSONGAS.COM/MENDOTA-REGISTRATION.ASP

HOME OWNER: _____ DEALER: _____

ADDRESS: _____ ADDRESS: _____

CITY/STATE/ZIP: _____ CITY/STATE/ZIP: _____

SIGNATURE: _____ PHONE: _____

MODEL #: DXV-60 _____ 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.
- ❑ 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
- ❑ Perform a thorough leak test on all gas supply and gas delivery tubing and connectors in this appliance.
- ❑ TAKE COMBUSTION SYSTEM MILLIVOLT READINGS [Per Manual]
  a. Pilot only - [Minimum Millivolts 325] Reading: _____
  b. Main burner operating - [Minimum Millivolts 100] Reading: _____
- ❑ CYCLE BURNERS ON/OFF FOR PROMPT IGNITION - Per "LIGHTING INSTRUCTIONS"
  Burners must light IMMEDIATELY - Flame must travel promptly around "curve" & light burners.
- ❑ INSTALL LOGS AND ADJUST FLAME - Per Manual
  Proper pilot flame impingement on thermopile & burner - Air shutter opening: 1/8" - 1/4" Nat. Gas - 1" 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-60 DIRECT VENT FIREPLACE

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

Optionally, please register at our website at: WWW.JOHNSONGAS.COM/MENDOTA-REGISTRATION.ASP

TAPE SHUT

POSTAGE
NEEDED

JOHNSON GAS APPLIANCE COMPANY
520 E AVENUE N.W.
CEDAR RAPIDS, IA 52405

MENDOTA EXTENDED LIFETIME PROTECTION AND LIMITED WARRANTY

MENDOTA DXV-60 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, LOGS AND OUTER SHIELD OF THE MENDOTA DXV FIREPLACE IS 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 Mendota, 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 are warranted 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.

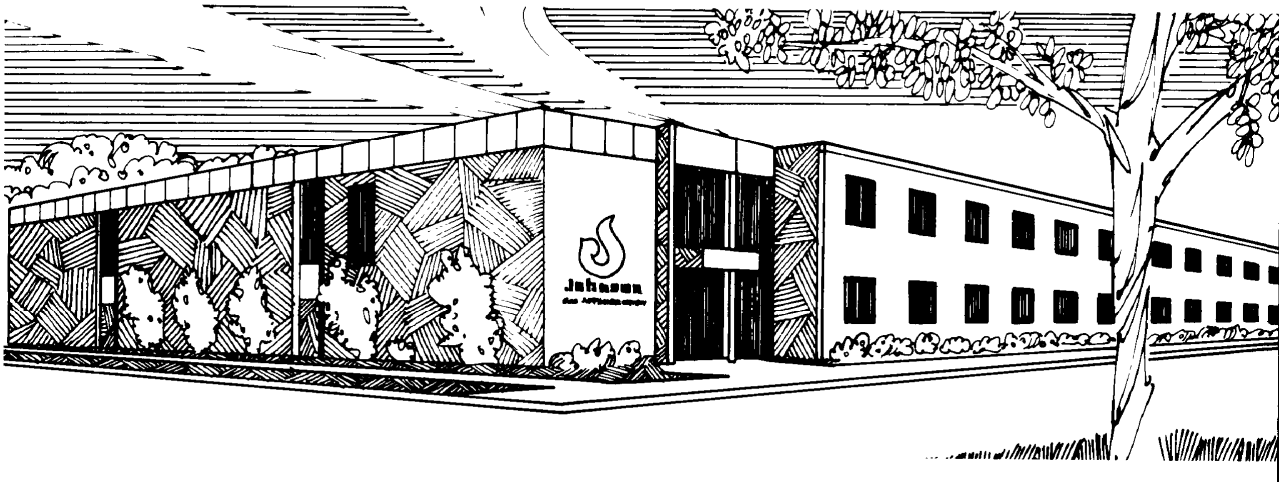
   This warranty may not be extended by our representatives or any third party in any manner. The company neither assumes, nor authorizes any third party to assume, on its behalf, any other liabilities with respect to the sale of this Mendota product.

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
Website: www.johnsongas.com or www.mendotahearth.com

0308
Part #85-03-00681