

Owner's Manual

Installation and Operation

Model(s):

NDV3630, NDV3933, NDV4236, NDV4842,
NDV3630I, NDV3933I, NDV4236I, NDV4842I,
NDV3630L, NDV3933L, NDV4236L, NDV4842L,
NDV3036IL, NDV3933IL, NDV4236IL, NDV4842IL

GAS-FIRED



**DO NOT
DISCARD**

NOTICE



DO NOT DISCARD THIS MANUAL

- Important operating and maintenance instructions included.
- Read, understand and follow these instructions for safe installation and operation.
- Leave this manual with party responsible for use and operation.

⚠ WARNING: If the information in these instructions is not followed exactly, a fire or explosion may result causing property damage, personal injury, or death.

- **DO NOT** store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- **What to do if you smell gas**
 - **DO NOT** try to light any appliance.
 - **DO NOT** touch any electrical switch. **DO NOT** use any phone in your building.
 - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
 - If you cannot reach your gas supplier, call the fire department.
- Installation and service must be performed by a qualified installer, service agency, or the gas supplier.

This appliance may be installed as an OEM installation in manufactured home (USA only) or mobile home and must be installed in accordance with the manufacturer's instructions and the manufactured home construction and safety standard, *Title 24 CFR, Part 3280 or Standard for Installation in Mobile Homes, CAN/CSA Z240MH, in Canada*.

This appliance is only for use with the type(s) of gas indicated on the rating plate.

⚠ WARNING



HOT SURFACES!

Glass and other surfaces are hot during operation AND cool down.

Hot glass will cause burns.

- **DO NOT** touch glass until it is cooled
 - NEVER allow children to touch glass
 - Keep children away
 - CAREFULLY SUPERVISE children in same room as fireplace.
 - Alert children and adults to hazards of high temperatures.
- High temperatures may ignite clothing or other flammable materials.**
- Keep clothing, furniture, draperies and other flammable materials away.

This appliance has been supplied with an integral barrier to prevent direct contact with the fixed glass panel. DO NOT operate the appliance with the barrier removed.

Contact your dealer or Hearth & Home Technologies if the barrier is not present or help is needed to properly install one.

In the Commonwealth of Massachusetts installation must be performed by a licensed plumber or gas fitter.

See Table of Contents for location of additional Commonwealth of Massachusetts requirements.



Installation and service of this appliance should be performed by qualified personnel. Hearth & Home Technologies suggests NFI certified or factory trained professionals, or technicians supervised by an NFI certified professional.

Read this manual before installing or operating this appliance.
Please retain this owner's manual for future reference.

A. Congratulations

Congratulations on selecting a Heatilator gas fireplace, an elegant and clean alternative to wood burning fireplaces. The Heatilator gas fireplace you have selected is designed to provide the utmost in safety, reliability, and efficiency.

As the owner of a new fireplace, you'll want to read and carefully follow all of the instructions contained in this *Owner's Manual*. Pay special attention to all cautions and warnings.

This *Owner's Manual* should be retained for future reference. We suggest that you keep it with your other important documents and product manuals.

The information contained in this *Owner's Manual*, unless noted otherwise, applies to all models and gas control systems.

Your new Heatilator gas fireplace will give you years of durable use and trouble-free enjoyment. Welcome to the Heatilator family of fireplace products!

Homeowner Reference Information

We recommend that you record the following pertinent information about your fireplace.

Model Name: _____ Date purchased/installed: _____

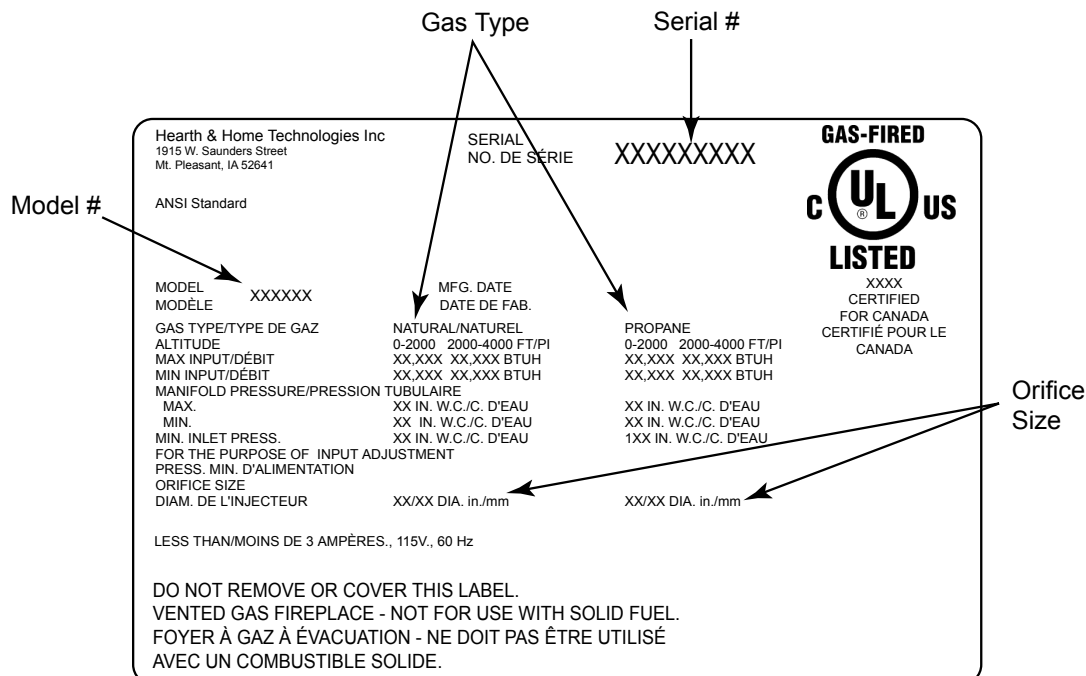
Serial Number: _____ Location on fireplace: _____

Dealership purchased from: _____ Dealer Phone: _____

Notes: _____

Listing Label Information/Location

The model information regarding your specific fireplace can be found on the rating plate usually located in the control area of the fireplace.



▲ Safety Alert Key:

- **DANGER!** Indicates a hazardous situation which, if not avoided will result in death or serious injury.
- **WARNING!** Indicates a hazardous situation which, if not avoided could result in death or serious injury.
- **CAUTION!** Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
- **NOTICE:** Used to address practices not related to personal injury.

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➔ = Contains updated information.

B. Limited Lifetime Warranty



Gas Appliance (Fireplace) Limited Lifetime Warranty

HEARTH & HOME TECHNOLOGIES INC. ("HHT") extends the following warranty for HEATILATOR® gas appliances installed in the United States of America or Canada (the "Appliance"). Dealers and employees of HHT have no authority to make any warranty or authorize any remedies in addition to or inconsistent with the terms of this warranty.

Limited Lifetime Warranty

HHT warrants the Appliance for component failure due to a manufacturing defect of any of the following components: combustion chamber, burner pan, and logs. The Limited Lifetime Warranty specified above is subject to the conditions, exclusions and limitations listed below, is for the period the Appliance is owned by the original homeowner only, and is nontransferable.

1 Year Limited Warranty

HHT warrants the Appliance to be free from failure of any of the following components for a period of one year after installation: valve, flexible gas line connector, glass panel, fan, direct vent chimney components, factory paint, gasket, piezo ignitor, thermopile, thermocouple, junction box, pilot assembly, shutoff valve, high limit switch, refractory liners, transformer, and control box. If the Heatilator Appliance is found to be defective in either material or workmanship within one year of the date of original installation, HHT will provide replacement parts at no charge and pay reasonable labor and freight costs, and is for the period of one year following the date of original installation of the Appliance.

Conditions, Exclusions, & Limitations of Liability

- A.** Both the Limited Lifetime and 1 Year Limited Warranties supplied by HHT apply only while the Appliance is in its location of original installation. HHT's obligation under this warranty does not extend to damages resulting from (1) installation, operation or maintenance of the Appliance not in accordance with the Installation Instructions, Operating Instructions, and the Listing Agent Identification Label furnished with the Appliance; (2) installation which does not comply with local building codes; (3) shipping, improper handling, improper operation, abuse, misuse, accident or unworkmanlike repairs; (4) environmental conditions, inadequate ventilation or drafting caused by tight sealing construction of the structure, air handling devices such as exhaust fans or forced air furnaces, or other causes; (5) use of fuels other than those specified in the Operating Instructions; (6) installation or use of components not supplied with the Appliance or any other components not expressly authorized and approved by HHT; and/or (7) modification of the Appliance not expressly authorized and approved by HHT in writing. This warranty is limited to only the component parts manufactured or supplied by HHT.
- B.** HHT's liability under both the Limited Lifetime Warranty and the 1 Year Limited Warranty is limited to the replacement and repair of defective components or workmanship during the applicable period. HHT may fully discharge all of its obligations under such warranties by repairing the defective component(s) or at HHT's discretion, providing replacement parts at no charge and paying reasonable labor and freight costs.
- C. EXCEPT TO THE EXTENT PROVIDED BY LAW, HHT MAKES NO EXPRESS WARRANTIES OTHER THAN THE WARRANTY SPECIFIED HEREIN. THE DURATION OF ANY IMPLIED WARRANTY IS LIMITED TO DURATION OF THE WARRANTY SPECIFIED ABOVE.**
- D.** Some states do not allow exclusions or limitations of incidental or consequential damages, so those limitations may not apply to you. This warranty gives you specific rights; you may also have other rights which vary from state to state.

How to Obtain Service

To obtain service under this warranty you must:

- 1. Send written notice of the claimed condition to Heatilator Technical Service Department, Hearth & Home Technologies, 1915 W. Saunders Street, Mt. Pleasant, Iowa 52641-1563. You may also register your claim online at www.heatilator.com.
- 2. Provide proof of purchase, model number, serial number, and manufacturing date code to HHT.
- 3. Provide HHT reasonable opportunity to investigate the claim, including reasonable opportunity to inspect the Appliance prior to any repair or replacement work and before the Appliance or any component of the Appliance has been removed from the place of original installation.
- 4. Obtain HHT's consent to any warranty work before the work is done.

ADDITIONAL INFORMATION:

If you would like information on current HEATILATOR products or want to locate a dealer in your area, call 1-800-927-6841.

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1 Listing and Code Approvals

A. Appliance Certification

MODELS: NDV3630, NDV3933, NDV4236, NDV4842, NDV3630I, NDV3933I, NDV4236I, NDV4842I, NDV3630L, NDV3933L, NDV4236L, NDV4842L, NDV3630IL, NDV3933IL, NDV4236IL, NDV4842IL

LABORATORY: Underwriters Laboratories, Inc. (UL)

TYPE: Direct Vent Gas Appliance

STANDARD: ANSI Z21.88a-2007/CSA 2.33a-2007, CGA 2.17-M91, UL 307B

This product is listed to ANSI standards for “Vented Gas Appliance Heaters” and applicable sections of “Gas Burning Heating Appliances for Manufactured Homes and Recreational Vehicles”, and “Gas Fired Appliances for Use at High Altitudes”.

NOTICE: This installation must conform with local codes. In the absence of local codes you must comply with the National Fuel Gas Code, ANSI Z223.1-latest edition in the U.S.A. and the CAN/CGA B149 Installation Codes in Canada.

NOT INTENDED FOR USE AS A PRIMARY HEAT SOURCE.

This appliance is tested and approved as either supplemental room heat or as a decorative appliance. It should not be factored as primary heat in residential heating calculations.

B. Tempered Glass Specifications

Hearth & Home Technologies appliances manufactured with tempered glass may be installed in hazardous locations such as bathtub enclosures as defined by the Consumer Product Safety Commission (CPSC). The tempered glass has been tested and certified to the requirements of **ANSI Z97.1** and **CPSC 16 CFR 1202** (Safety Glazing Certification Council **SGCC# 1595** and **1597**. Architectural Testing, Inc. Reports **02-31919.01** and **02-31917.01**).

This statement is in compliance with **CPSC 16 CFR Section 1201.5** “Certification and labeling requirements” which refers to **15 U.S. Code (USC) 2063** stating “...Such certificate shall accompany the product or shall otherwise be furnished to any distributor or retailer to whom the product is delivered.”

Some local building codes require the use of tempered glass with permanent marking in such locations. Glass meeting this requirement is available from the factory. Please contact your dealer or distributor to order.

C. BTU Specifications

Novus NDV	NDV3630	NDV3933
Standing Pilot or IPI		
Max/Min Input Rate (NG)	20,000/14,000	22,000/15,000
Orifice Size (NG)	0.083	0.089/#43
Max/Min Input Rate (LP)	20,000/15,000	22,000/15,000
Orifice Size (LP)	0.053	0.055/#54

Novus NDV	NDV4236	NDV4842
Standing Pilot or IPI		
Max/Min Input Rate (NG)	25,000/17,000	30,000/20,500
Orifice Size (NG)	0.093/#42	0.104/#37
Max/Min Input Rate (LP)	25,000/17,000	30,000/20,500
Orifice Size (LP)	0.058	0.063/#52

D. High Altitude Installations

NOTICE: If the heating value of the gas has been reduced, these rules do not apply. Check with your local gas utility or authorities having jurisdiction.

When installing above 2000 feet elevation:

- In the USA: Reduce burner orifice 4% for each 1000 feet above 2000 feet.
- In CANADA: Reduce burner orifice 10% for elevations between 2000 feet and 4500 feet. Above 4500 feet, consult local gas utility.

E. Non-Combustible Materials Specification

Material which will not ignite and burn. Such materials are those consisting entirely of steel, iron, brick, tile, concrete, slate, glass or plasters, or any combination thereof.

Materials that are reported as passing **ASTM E 136, Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750 °C** and **UL763** shall be considered non-combustible materials.

F. Combustible Materials Specification

Materials made of or surfaced with wood, compressed paper, plant fibers, plastics, or other material that can ignite and burn, whether flame proofed or not, or plastered or unplastered shall be considered combustible materials.

Note: The following requirements reference various Massachusetts and national codes not contained in this document.

G. Requirements for the Commonwealth of Massachusetts

For all side wall horizontally vented gas fueled equipment installed in every dwelling, building or structure used in whole or in part for residential purposes, including those owned or operated by the Commonwealth and where the side wall exhaust vent termination is less than seven (7) feet above finished grade in the area of the venting, including but not limited to decks and porches, the following requirements shall be satisfied:

Installation of Carbon Monoxide Detectors

At the time of installation of the side wall horizontal vented gas fueled equipment, the installing plumber or gas fitter shall observe that a hard wired carbon monoxide detector with an alarm and battery back-up is installed on the floor level where the gas equipment is to be installed. In addition, the installing plumber or gas fitter shall observe that a battery operated or hard wired carbon monoxide detector with an alarm is installed on each additional level of the dwelling, building or structure served by the side wall horizontal vented gas fueled equipment. It shall be the responsibility of the property owner to secure the services of qualified licensed professionals for the installation of hard wired carbon monoxide detectors.

In the event that the side wall horizontally vented gas fueled equipment is installed in a crawl space or an attic, the hard wired carbon monoxide detector with alarm and battery back-up may be installed on the next adjacent floor level.

In the event that the requirements of this subdivision can not be met at the time of completion of installation, the owner shall have a period of thirty (30) days to comply with the above requirements; provided, however, that during said thirty (30) day period, a battery operated carbon monoxide detector with an alarm shall be installed.

Approved Carbon Monoxide Detectors

Each carbon monoxide detector as required in accordance with the above provisions shall comply with NFPA 720 and be ANSI/UL 2034 listed and IAS certified.

Signage

A metal or plastic identification plate shall be permanently mounted to the exterior of the building at a minimum height of eight (8) feet above grade directly in line with the exhaust vent terminal for the horizontally vented gas fueled heating appliance or equipment. The sign shall read, in print size no less than one-half (1/2) inch in size, **"GAS VENT DIRECTLY BELOW. KEEP CLEAR OF ALL OBSTRUCTIONS"**.

Inspection

The state or local gas inspector of the side wall horizontally vented gas fueled equipment shall not approve the installation unless, upon inspection, the inspector ob-

serves carbon monoxide detectors and signage installed in accordance with the provisions of 248 CMR 5.08(2)(a)1 through 4.

Exemptions

The following equipment is exempt from 248 CMR 5.08(2)(a)1 through 4:

- The equipment listed in Chapter 10 entitled "Equipment Not Required To Be Vented" in the most current edition of NFPA 54 as adopted by the Board; and
- Product Approved side wall horizontally vented gas fueled equipment installed in a room or structure separate from the dwelling, building or structure used in whole or in part for residential purposes.

MANUFACTURER REQUIREMENTS

Gas Equipment Venting System Provided

When the manufacturer of Product Approved side wall horizontally vented gas equipment provides a venting system design or venting system components with the equipment, the instructions provided by the manufacturer for installation of the equipment and the venting system shall include:

- Detailed instructions for the installation of the venting system design or the venting system components; and
- A complete parts list for the venting system design or venting system.

Gas Equipment Venting System NOT Provided

When the manufacturer of a Product Approved side wall horizontally vented gas fueled equipment does not provide the parts for venting the flue gases, but identifies "special venting systems", the following requirements shall be satisfied by the manufacturer:

- The referenced "special venting system" instructions shall be included with the appliance or equipment installation instructions; and
- The "special venting systems" shall be Product Approved by the Board, and the instructions for that system shall include a parts list and detailed installation instructions.

A copy of all installation instructions for all Product Approved side wall horizontally vented gas fueled equipment, all venting instructions, all parts lists for venting instructions, and/or all venting design instructions shall remain with the appliance or equipment at the completion of the installation.

See Gas Connection section for additional Commonwealth of Massachusetts requirements.

User Guide

2 Operating Instructions

A. Gas Fireplace Safety

⚠ WARNING



HOT SURFACES!

Glass and other surfaces are hot during operation AND cool down.

Hot glass will cause burns.

- **DO NOT** touch glass until it is cooled
- NEVER allow children to touch glass
- Keep children away

- CAREFULLY SUPERVISE children in same room as fireplace.
- Alert children and adults to hazards of high temperatures.

High temperatures may ignite clothing or other flammable materials.

- Keep clothing, furniture, draperies and other flammable materials away.

This appliance has been supplied with an integral barrier to prevent direct contact with the fixed glass panel. DO NOT operate the appliance with the barrier removed.

Contact your dealer or Hearth & Home Technologies if the barrier is not present or help is needed to properly install one.

If you expect that small children or vulnerable adults may come into contact with this fireplace, the following precautions are recommended:

- Install a physical barrier such as:
 - A decorative screen.
 - Adjustable safety gate.

- Install a switch lock or a wall/remote control with child protection lockout feature.
- Keep remote controls out of reach of children.
- Never leave children alone near a hot fireplace, whether operating or cooling down.
- Teach children to NEVER touch the fireplace.
- Consider not using the fireplace when children will be present.

Contact your dealer for more information, or visit: www.hpba.org/staysafe.

To prevent unintended operation when not using your fireplace for an extended period of time (summer months, vacations/trips, etc):

- Remove batteries from remote controls.
- Turn off wall controls.
- Unplug 3 volt adapter plug and remove batteries on IPI models.
- Turn off gas controls valve on standing pilot models.

When lighting the pilot light on fireplaces with a standing pilot, remove the fixed glass assembly so you can detect presence of residual gas build-up. See Standing Pilot Lighting instructions and Maintenance Tasks.

B. Your Fireplace

WARNING! DO NOT operate fireplace before reading and understanding operating instructions. Failure to operate fireplace according to operating instructions could cause fire or injury.

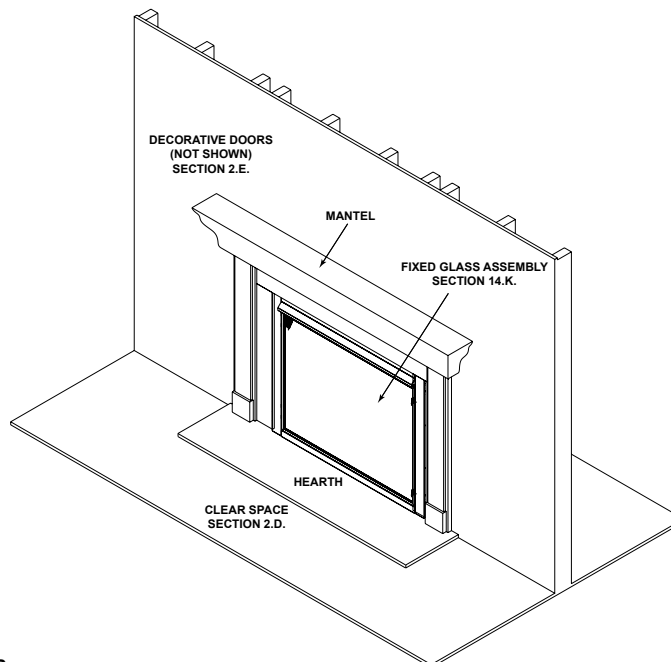


Figure 2.1 General Operating Parts

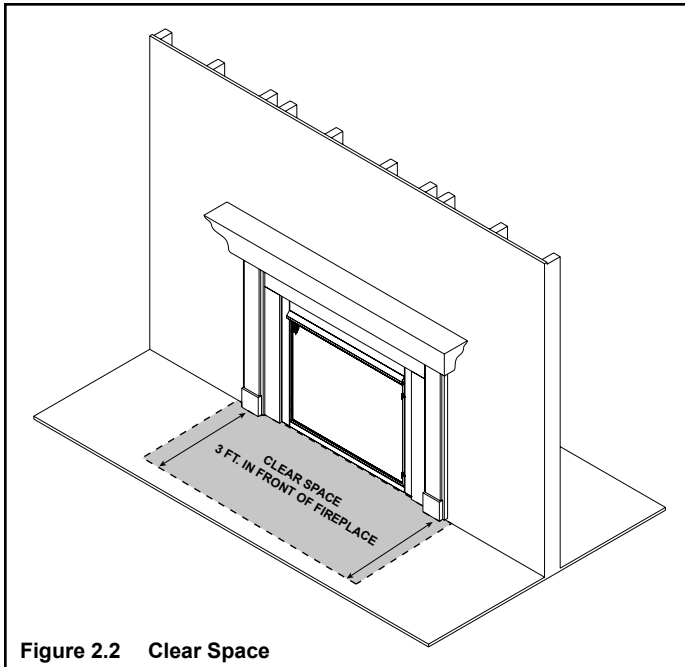
C. Fan Kit (optional)

- Refer to Figure 2.1 for location of control.

D. Clear Space

WARNING! DO NOT place combustible objects in front of the fireplace or block louvers. High temperatures may start a fire. See Figure 2.2.

Avoid placing candles and other heat-sensitive objects on mantel or hearth. Heat may damage these objects.



E. Decorative Doors and Fronts

WARNING! Risk of Fire! Install **ONLY** doors or fronts approved by Hearth & Home Technologies. Unapproved doors or fronts may cause appliance to overheat.

This appliance has been supplied with an integral barrier to prevent direct contact with the fixed glass panel. DO NOT operate the appliance with the barrier removed.

Contact your dealer or Hearth & Home Technologies if the barrier is not present or help is needed to properly install one.

For more information refer to the instructions supplied with your decorative door or front.

F. Fixed Glass Assembly

See Section 14.K.

G. Remote Controls, Wall Controls and Wall Switches

Follow the instructions supplied with the control installed to operate your fireplace:

For safety:

- Install a switch lock or a wall/remote control with child protection lockout feature.
- Keep remote controls out of reach of children.

See your dealer if you have questions.

H. Before Lighting Fireplace

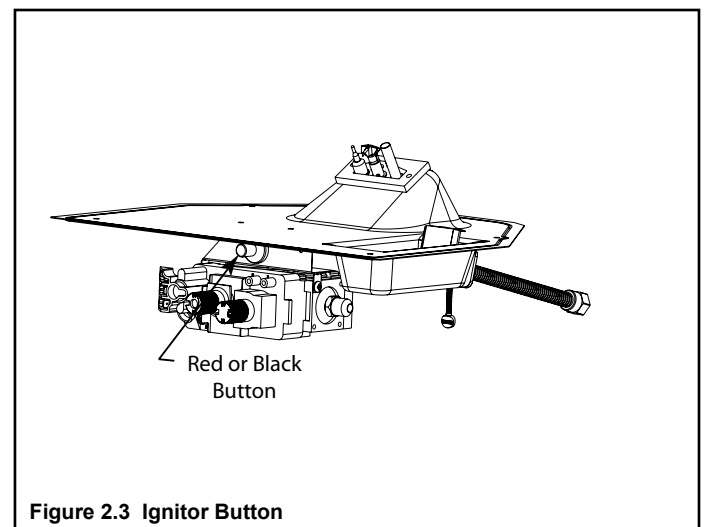
Before operating this fireplace for the first time, **have a qualified technician**:

- Verify all shipping materials have been removed from inside and/or underneath the firebox.
- Review proper placement of logs, ember material and/or other decorative materials.
- Check the wiring.
- Check the air shutter adjustment.
- Ensure that there are no gas leaks.
- Ensure that the glass is sealed and in the proper position and that the integral barrier is in place.

WARNING! Risk of Fire/Asphyxiation! DO NOT operate fireplace with fixed glass assembly removed.

Determine if this fireplace has a standing pilot or an Intellifire ignition system. Ask your dealer or open control access panel, look at valve assembly.

- A standing pilot ignition will have a red or black ignitor button (refer to Figure 2.3).
- An Intellifire ignition system will not have a button.



I. Intermittent Pilot Ignition (IPI)

The IPI system may be operated with two D-cell batteries. When using batteries, unplug the transformer. To prolong battery life, remove them when using the transformer.

○

FOR YOUR SAFETY READ BEFORE LIGHTING

WARNING:

If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

A.

This appliance is equipped with an ignition device which automatically lights the pilot. Do not try to light the pilot by hand.

B.

BEFORE LIGHTING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

WHAT TO DO IF YOU SMELL GAS

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

C.

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

D.

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

LIGHTING INSTRUCTIONS

1.

STOP! Read the safety information above on this label.

2.

Turn wall switch to the "OFF" position or thermostat to the lowest setting.

3.

Turn off all electric power to the appliance.

4.

This appliance is equipped with an ignition device which automatically lights the pilot. Do NOT try to light the pilot by hand.

5.

Wait five minutes to clear out any gas. If you then smell gas, STOP! Follow "B" in the safety information above on this label. If you don't smell gas, go to the next step.

6.

To turn on the burner, turn on all electric power to this appliance and turn on the wall switch or set the thermostat to the desired setting.

7.

If the appliance will not operate, follow the instructions "TO TURN OFF GAS TO APPLIANCE" and call your service technician or gas supplier.

TO TURN OFF GAS TO APPLIANCE

1.

Turn off wall switch or set thermostat to lowest setting.

2.

Turn off all electric power to the appliance if service is to be performed.

3.

Push the gas control lever in and move to the "OFF" position. Do not or push the gas control lever to the "OFF" position. Do not force.

4.

Replace the control access panel.

Due to high surface temperatures, keep children, clothing and furniture away. Keep burner and control compartment clean. See installation and operating instructions accompanying the appliance.

33631D

This appliance needs fresh air for safe operation and must be installed so there are provisions for adequate combustion and ventilation air.

This appliance must be installed in accordance with local codes, if any; if not, follow ANSI Z223.1 or, in Canada, current CAN/CGA-B149.

This appliance must be properly connected to a venting system in accordance with the manufacturer's installation instructions.

WARNING:

Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to the owner's information manual provided with the appliance. For assistance or additional information consult a qualified installer, service agency or the gas supplier.

CAUTION:

Hot while in operation. Do not touch. Keep children, clothing, furniture, gasoline and other liquids having flammable vapors away.

WARNING RISK OF FIRE

This appliance is intended to burn a specified gas fuel only. Do not attempt to use with solid wood fuel or another type of fuel. Do not attempt to modify or use any other type of gas burner system.

WARNING:

Disconnect the electric power before servicing. If for any reason the original wire supplied with the appliance must be replaced, it must be replaced with 105° C or its equivalent.

For use with natural gas or propane. A conversion kit as supplied by the manufacturer shall be used to convert this appliance to the alternative fuel.

* Also certified for installation in a bedroom or a bed-sitting room.
* For U.S. only!

NATURAL GAS

<div><div>○</div><div>FOR YOUR SAFETY READ BEFORE LIGHTING</div></div> <div><div><div>WARNING: If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.</div><div><div>A. This appliance has a pilot which must be lighted by hand. When lighting the pilot, follow these instructions exactly.</div><div>B. BEFORE LIGHTING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.</div><div>WHAT TO DO IF YOU SMELL GAS</div><div><div><div>• Do not try to light any appliance.</div><div>• Do not touch any electric switch; do not use any phone in your building.</div><div>• Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.</div></div><div><div>C. Use only your hand to push in or turn knob. Never use tools. If the manual gas valve will not push in or turn by hand, don't try to repair it; call a qualified service technician. Force or attempted repair may result in a fire or explosion.</div><div>D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.</div></div></div></div><div><div>Lighting Instructions</div><div><div><div>1. Turn wall switch to the "OFF" position or thermostat to the lowest setting.</div><div>2. Remove control access panel.</div><div>3. Turn manual gas valve to CLOSED. Wait five [5] minutes to clear out any gas. If you then smell gas, STOP! Follow "B" in the safety information above on this label. If you don't smell gas, go to next step.</div><div>4. Turn gas line to "OPEN".</div><div>5. Turn pilot knob clockwise to "OFF". (Knob may have to be depressed to pass "PILOT" position.)</div><div>6. Locate pilot assembly inside appliance.</div><div>7. Locate red ignitor button.</div><div>8. Turn pilot knob to "PILOT" and push in.</div><div>9. Continue to hold in pilot knob and push the red ignitor button 12-15 times until small blue pilot flame appears.</div><div>10. Continue to hold in pilot knob for approximately one minute. Pilot should remain lit. If pilot goes out, wait 5 minutes and repeat Steps 3-9.</div><div>11. Release and turn knob counterclockwise to "ON".</div><div>12. If appliance will not operate, follow the instructions "TO TURN OFF GAS TO APPLIANCE" and call your service technician or gas supplier.</div></div><div><div>NOTE: To light main burner, turn wall switch to "ON". Do not light by hand.</div><div><div>TO TURN OFF GAS TO APPLIANCE</div><div><div>1. Turn off wall switch or set thermostat to lowest setting.</div><div>2. Remove control access panel.</div><div>3. Turn manual gas valve to "CLOSED" position. Do not force.</div><div>4. Replace control access panel.</div></div><div>Due to high surface temperatures, keep children, clothing and furniture away. Keep burner and control compartment clean. See installation and operating instructions accompanying the appliance.</div></div></div></div></div></div></div>	
<div>This appliance needs fresh air for safe operation and must be installed so there are provisions for adequate combustion and ventilation air.</div>	<div>This appliance must be installed in accordance with local codes, if any; if not, follow ANSI Z223.1 or, in Canada, current CAN/CGA-B149.</div>
<div>This appliance must be properly connected to a venting system in accordance with the manufacturer's installation instructions.</div>	<div><div>WARNING:</div><div>Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to the owner's information manual provided with the appliance. For assistance or additional information consult a qualified installer, service agency or the gas supplier.</div></div>
<div><div>CAUTION:</div><div>Hot while in operation. Do not touch. Keep children, clothing, furniture, gasoline and other liquids having flammable vapors away.</div></div>	<div><div>WARNING RISK OF FIRE</div><div>This appliance is intended to burn a specified gas fuel only. Do not attempt to use with solid wood fuel or another type of fuel. Do not attempt to modify or use any other type of gas burner system.</div></div>
<div><div>WARNING:</div><div>Disconnect the electric power before servicing. If for any reason the original wire supplied with the appliance must be replaced, it must be replaced with 105° C or its equivalent.</div></div>	<div>For use with natural gas or propane. A conversion kit as supplied by the manufacturer shall be used to convert this appliance to the alternative fuel.</div>
<div><div>* Also certified for installation in a bedroom or a bed-sitting room.</div><div>* For U.S. only!</div></div>	<div>NATURAL GAS</div>

K. After Appliance is Lit

Initial Break-in Procedure

- The appliance should be run three to four hours continuously on high.
- Turn the appliance off and allow it to completely cool.
- Remove and clean fixed glass assembly. See Section 3.
- Replace the fixed glass assembly and run continuously on high an additional 12 hours.

This cures the materials used to manufacture the fire-place.

NOTICE! Open windows for air circulation during appliance break-in.

- *Some people may be sensitive to smoke and odors.*
- *Smoke detectors may activate.*

L. Frequently Asked Questions

ISSUE	SOLUTIONS
Condensation on the glass	This is a result of gas combustion and temperature variations. As the appliance warms, this condensation will disappear.
Blue flames	This is a result of normal operation and the flames will begin to yellow as the appliance is allowed to burn for 20 to 40 minutes.
Odor from appliance	When first operated, this appliance may release an odor for the first several hours. This is caused by the curing of materials from manufacturing. Odor may also be released from finishing materials and adhesives used near the appliance. These circumstances may require additional curing related to the installation environment.
Film on the glass	This is a normal result of the curing process of the paint and logs. Glass should be cleaned within 3 to 4 hours of initial burning. A non-abrasive cleaner such as gas appliance glass cleaner may be necessary. See your dealer.
Metallic noise	Noise is caused by metal expanding and contracting as it heats up and cools down, similar to the sound produced by a furnace or heating duct. This noise does not affect the operation or longevity of the appliance.

3 Maintenance and Service

Any safety screen or guard removed for servicing must be replaced prior to operating the appliance.

When properly maintained, your appliance will give you many years of trouble-free service. We recommend annual service by a qualified technician.

A. Maintenance Tasks-Homeowner

Installation and repair should be done by a qualified technician only. The appliance should be inspected before use and at least annually by a professional service person.

The following tasks may be performed annually by the homeowner. If you are uncomfortable performing any of the listed tasks, please call your dealer for a service appointment.

More frequent cleaning may be required due to lint from carpeting or other factors. Control compartment, burner and circulating air passageway of the appliance must be kept clean.

CAUTION! Risk of Burns! The appliance should be turned off and cooled before servicing.

Glass Cleaning

Frequency: Seasonally

By: Homeowner

Tools Needed: Protective gloves, glass cleaner, drop cloth and a stable work surface.

CAUTION! Handle fixed glass assembly with care.

Glass is breakable.

- Avoid striking, scratching or slamming glass
- Avoid abrasive cleaners
- **DO NOT** clean glass while it is hot
- Prepare a work area large enough to accommodate fixed glass assembly and door frame by placing a drop cloth on a flat, stable surface.

Note: Fixed glass assembly and gasketing may have residue that can stain carpeting or floor surfaces.

- Remove door or decorative front from appliance and set aside on work surface.
- See Section 14.K for instructions to remove fixed glass assembly.
- Clean glass with a non-abrasive commercially available cleaner.
 - Light deposits: Use a soft cloth with soap and water
 - Heavy deposits: Use commercial fireplace glass cleaner (consult with your dealer)
- Carefully set fixed glass assembly in place on appliance. Hold glass in place with one hand and secure glass latches with the other hand.
- Reinstall door or decorative front.

Doors, Surrounds, Fronts

Frequency: Annually

By: Homeowner

Tools needed: Protective gloves, stable work surface

- Assess condition of screen and replace as necessary.
- Inspect for scratches, dents or other damage and repair as necessary.
- Check that louvers are not blocked.
- Vacuum or dust surfaces.

Remote Control

Frequency: Seasonally

By: Homeowner

Tools needed: Replacement batteries and remote control instructions.

- Locate remote control transmitter and receiver.
- Verify operation of remote. Refer to remote control operation instructions for proper calibration and setup procedure.
- Place batteries as needed in remote transmitters and battery-powered receivers.
- Place remote control out of reach of children.

If not using your fireplace for an extended period of time (summer months, vacations/trips, etc), to prevent unintended operation:

- Remove batteries from remote controls.
- Unplug 3 volt adapter plug on IPI models.

Venting

Frequency: Seasonally

By: Homeowner

Tools needed: Protective gloves and safety glasses.

- Inspect venting and termination cap for blockage or obstruction such plants, bird nests, leaves, snow, debris, etc.
- Verify termination cap clearance to subsequent construction (building additions, decks, fences, or sheds). See Section 6.
- Inspect for corrosion or separation.
- Verify weather stripping, sealing and flashing remains intact.
- Inspect draft shield to verify it is not damaged or missing.

B. Maintenance Tasks-Service Technician

The following tasks must be performed by a qualified technician.

Gasket Seal and Glass Assembly Inspection

Frequency: Annually

By: Service Technician

Tools needed: Protective gloves, drop cloth and a stable work surface.

- Inspect gasket seal and its condition.
- Inspect fixed glass assembly for scratches and nicks that can lead to breakage when exposed to heat.
- Confirm there is no damage to glass or glass frame. Replace as necessary.
- Verify that fixed glass assembly is properly retained and attachment components are intact and not damaged. Replace as necessary.

Logs

Frequency: Annually

By: Service Technician

Tools needed: Protective gloves.

- Inspect for damaged or missing logs. Replace as necessary. Refer to Section 14 for log placement instructions.
- Verify correct log placement and no flame impingement causing sooting. Correct as necessary.

Firebox

Frequency: Annually

By: Service Technician

Tools needed: Protective gloves, sandpaper, steel wool, cloths, mineral spirits, primer and touch-up paint.

- Inspect for paint condition, warped surfaces, corrosion or perforation. Sand and repaint as necessary.
- Replace appliance if firebox has been perforated.

Control Compartment and Firebox Top

Frequency: Annually

By: Service Technician

Tools needed: Protective gloves, vacuum cleaner, dust cloths

- Vacuum and wipe out dust, cobwebs, debris or pet hair. Use caution when cleaning these areas. Screw tips that have penetrated the sheet metal are sharp and should be avoided.
- Remove all foreign objects.
- Verify unobstructed air circulation.

Burner Ignition and Operation

Frequency: Annually

By: Service Technician

Tools needed: Protective gloves, vacuum cleaner, whisk broom, flashlight, voltmeter, indexed drill bit set, and a manometer.

- Verify burner is properly secured and aligned with pilot or igniter.
- Clean off burner top, inspect for plugged ports, corrosion or deterioration. Replace burner if necessary.
- Replace ember materials with new dime-size pieces. **DO NOT** block ports or obstruct lighting paths. Refer to Section 14 for proper ember placement.
- Verify batteries have been removed from battery back-up IPI systems to prevent premature battery failure or leaking.
- Check for smooth lighting and ignition carryover to all ports. Verify that there is no ignition delay.
- Inspect for lifting or other flame problems.
- Verify air shutter setting is correct. See Section 14.N. for required air shutter setting. Verify air shutter is clear of dust and debris.
- Inspect orifice for soot, dirt and corrosion. Verify orifice size is correct. See Service Parts List for proper orifice sizing.
- Verify manifold and inlet pressures. Adjust regulator as required.
- Inspect pilot flame pattern and strength. See Figures 3.1 and 3.2 for proper pilot flame pattern. Clean or replace orifice spud as necessary.
- Inspect thermocouple/thermopile or IPI flame sensing rod for soot, corrosion and deterioration. Clean with emery cloth or replace as required.
- Verify thermocouple/thermopile or IPI millivolt output. Replace as necessary.

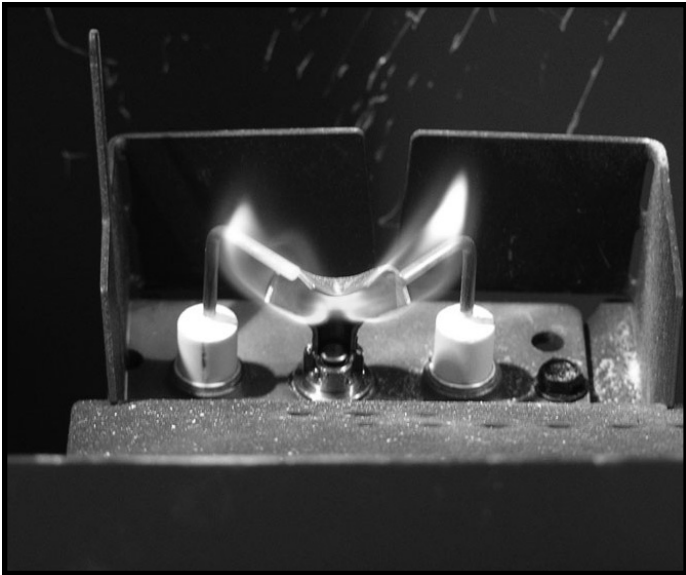


Figure 3.1 IPI Flame Patterns

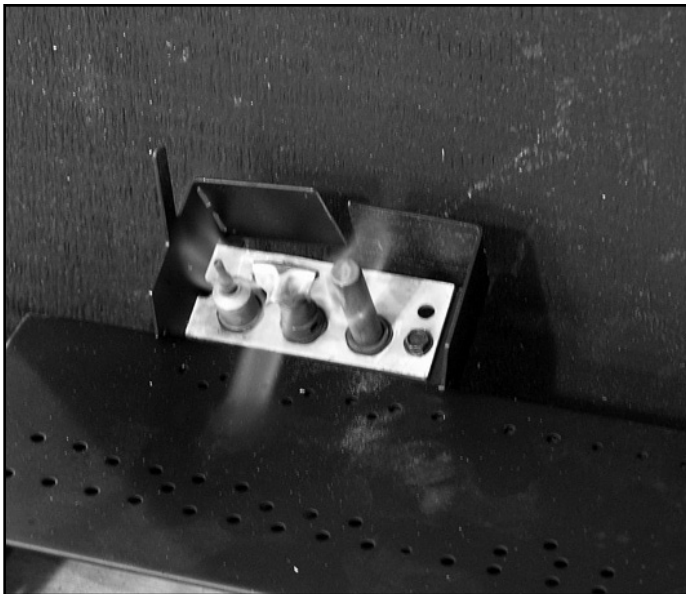


Figure 3.2 Standing Pilot Flame Patterns

4 Getting Started

Installer Guide

A. Typical Appliance System

NOTICE: Illustrations and photos reflect typical installations and are for design purposes only. Illustrations/diagrams are not drawn to scale. Actual product may vary from pictures in manual

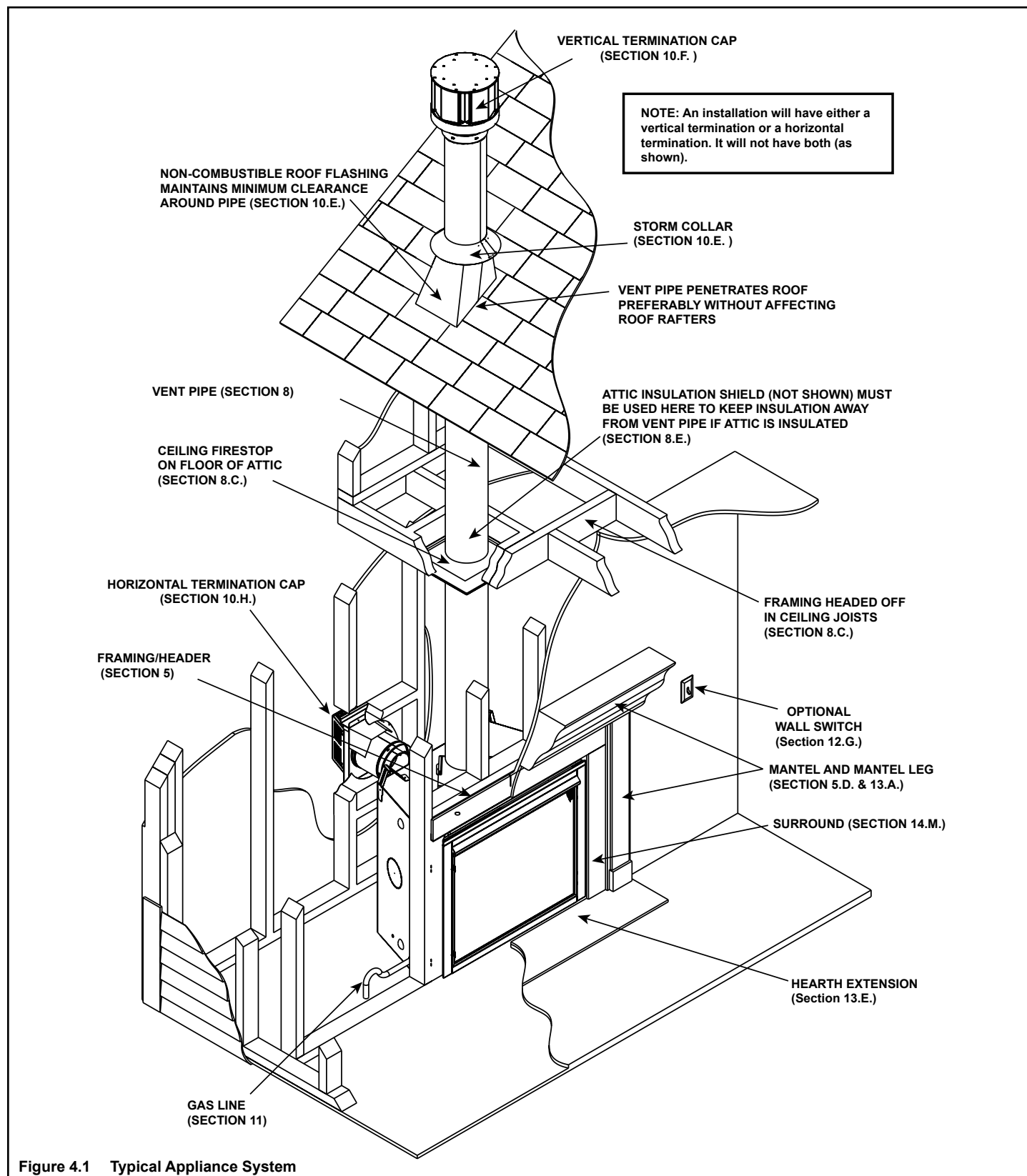


Figure 4.1 Typical Appliance System

B. Design and Installation Considerations

Heatilator direct vent gas appliances are designed to operate with all combustion air siphoned from outside of the building and all exhaust gases expelled to the outside. No additional outside air source is required.

Installation **MUST** comply with local, regional, state and national codes and regulations. Consult insurance carrier, local building inspector, fire officials or authorities having jurisdiction over restrictions, installation inspection and permits.

Before installing, determine the following:

- Where the appliance is to be installed.
- The vent system configuration to be used.
- Gas supply piping.
- Electrical wiring requirements.
- Framing and finishing details.
- Whether optional accessories—devices such as a fan, wall switch, or remote control—are desired.

Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. For assistance or additional information, consult a qualified technician, service agency or your dealer.

C. Tools and Supplies Needed

Before beginning the installation be sure that the following tools and building supplies are available.

Tape measure	Framing material
Pliers	High temperature caulking material
Hammer	Phillips screwdriver
Gloves	Framing square
Voltmeter	Electric drill and bits (1/4 in.)
Plumb line	Safety glasses
Level	Reciprocating saw
Manometer	Flat blade screwdriver

Noncorrosive leak check solution
1/2 - 3/4 inch length, #6 or #8 Self-drilling screws
One 1/4 inch female connection (for optional fan).

D. Inspect Appliance and Components

- Carefully remove the appliance and components from the packaging.
- The vent system components and decorative doors and fronts may be shipped in separate packages.
- If packaged separately, the log set and appliance grate must be installed.
- Report to your dealer any parts damaged in shipment, particularly the condition of the glass.
- **Read all of the instructions before starting the installation. Follow these instructions carefully during the installation to ensure maximum safety and benefit.**

WARNING! Risk of Fire or Explosion! Damaged parts could impair safe operation. DO NOT install damaged, incomplete or substitute components. Keep appliance dry.

Hearth & Home Technologies disclaims any responsibility for, and the warranty will be voided by, the following actions:

- Installation and use of any damaged appliance or vent system component.
- Modification of the appliance or vent system.
- Installation other than as instructed by Hearth & Home Technologies.
- Improper positioning of the gas logs or the glass door.
- Installation and/or use of any component part not approved by Hearth & Home Technologies.

Any such action may cause a fire hazard.

WARNING! Risk of Fire,/Explosion/Electric Shock! DO NOT use this appliance if any part has been under water. Call a qualified technician to inspect the appliance and to replace any part of the control system and/or gas control which has been under water.

5 Framing and Clearances

A. Select Appliance Location

When selecting a location for your appliance it is important to consider the required clearances to walls (see Figure 5.1).

WARNING! Risk of Fire or Burns! Provide adequate clearance around air openings and for service access. Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies.

NOTICE: Illustrations reflect typical installations and are FOR DESIGN PURPOSES ONLY. Illustrations/diagrams are not drawn to scale. Actual installation may vary due to individual design preference.

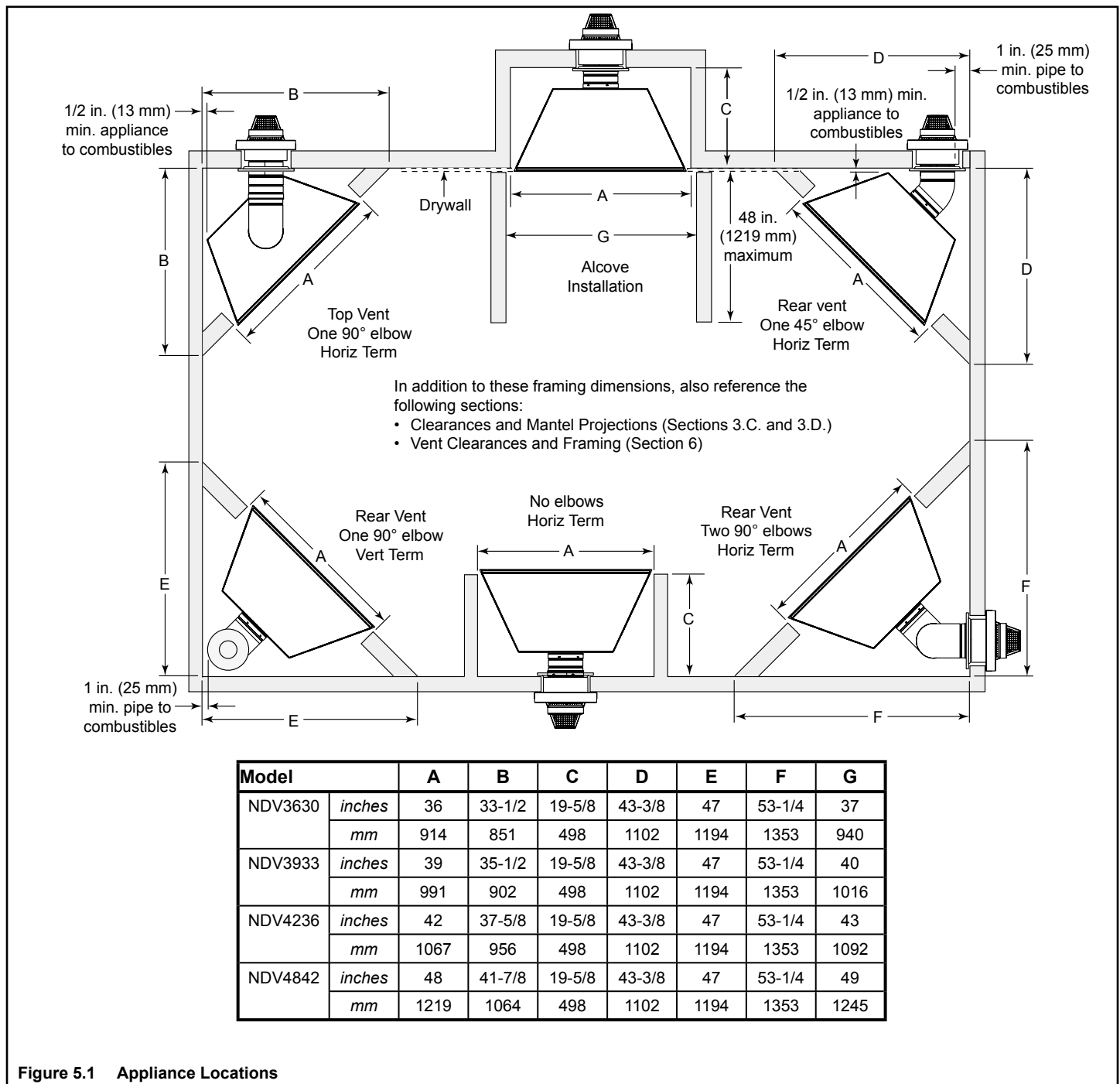


Figure 5.1 Appliance Locations

B. Constructing the Appliance Chase

A chase is a vertical box-like structure built to enclose the gas appliance and/or its vent system. In cooler climates the vent should be enclosed inside the chase.

NOTICE: Treatment of ceiling firestops and wall shield firestops and construction of the chase may vary with the type of building. These instructions are not substitutes for the requirements of local building codes. Therefore, you **MUST** check local building codes to determine the requirements to these steps.

Chases should be constructed in the manner of all outside walls of the home to prevent cold air drafting problems. The chase should not break the outside building envelope in any manner.

Walls, ceiling, base plate and cantilever floor of the chase should be insulated. Vapor and air infiltration barriers should be installed in the chase as per regional codes for the rest of the home. Additionally, in regions where cold air infiltration may be an issue, the inside surfaces may be sheetrocked and taped for maximum air tightness.

To further prevent drafts, the wall shield and ceiling firestops should be caulked with high temperature caulk to seal gaps. Gas line holes and other openings should be caulked with high temp caulk or stuffed with unfaced insulation. If the appliance is being installed on a cement slab, a layer of plywood may be placed underneath to prevent conducting cold up into the room.

C. Clearances

NOTICE: Install appliance on hard metal or wood surfaces extending full width and depth. **DO NOT** install directly on carpeting, vinyl, tile or any combustible material other than wood.

WARNING! Risk of Fire! Maintain specified air space clearances to appliance and vent pipe:

- Insulation and other materials must be secured to prevent accidental contact.
- Failure to maintain airspace may cause overheating and a fire.

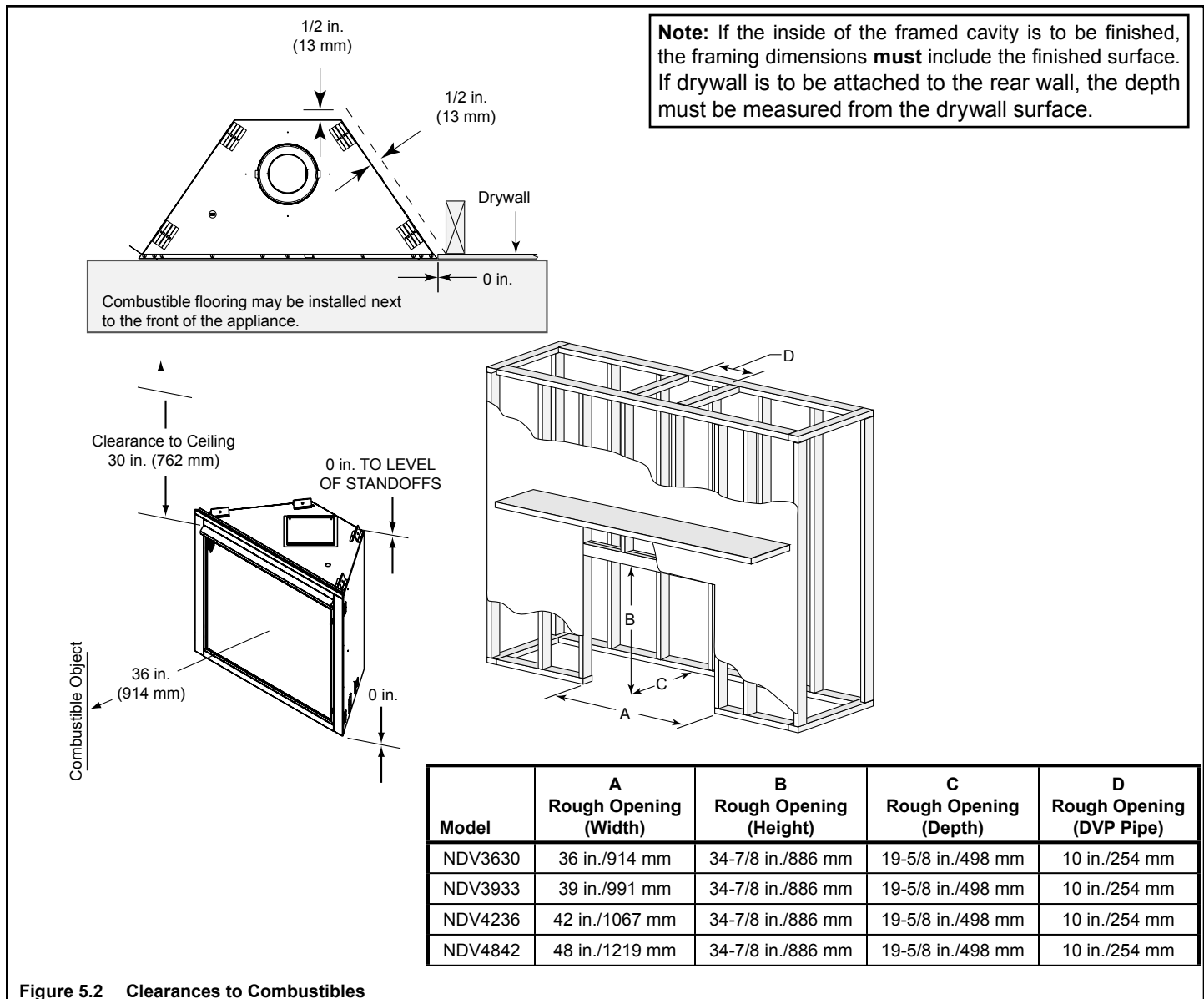


Figure 5.2 Clearances to Combustibles

D. Mantel and Wall Projections

WARNING! Risk of Fire! *Comply with all minimum clearances to combustibles as specified. Framing or finishing material closer than the minimums listed must be constructed entirely of noncombustible materials (i.e., steel studs, concrete board, etc).*

Mantels

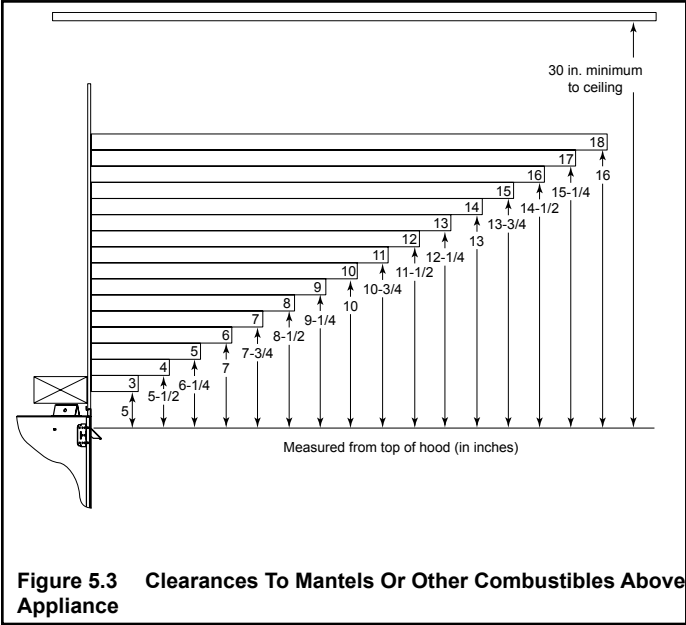


Figure 5.3 Clearances To Mantels Or Other Combustibles Above Appliance

Mantel Legs or Wall Projections

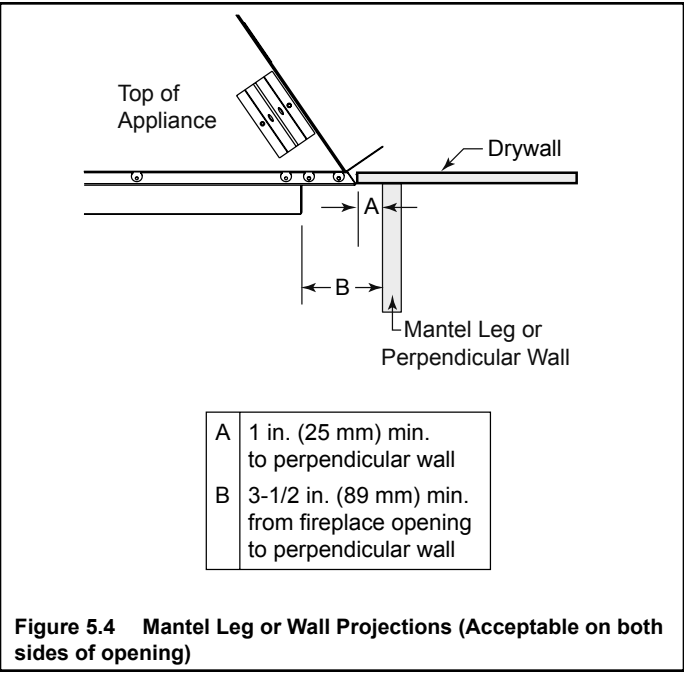


Figure 5.4 Mantel Leg or Wall Projections (Acceptable on both sides of opening)

6 Termination Locations

A. Vent Termination Minimum Clearances



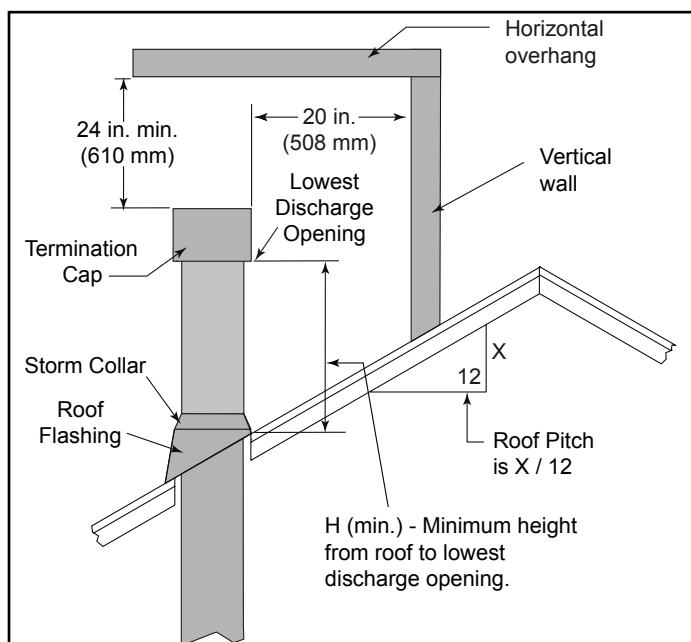
⚠ WARNING

Fire Risk.

Maintain vent clearance to combustibles as specified.

- **DO NOT** pack air space with insulation or other materials.

Failure to keep insulation or other materials away from vent pipe may cause fire.



Roof Pitch	H (Min.) Ft.	Roof Pitch	H (Min.) Ft.
Flat to 6/12	1.0*	Over 11/12 to 12/12	4.0
Over 6/12 to 7/12	1.25*	Over 12/12 to 14/12	5.0
Over 7/12 to 8/12	1.5*	Over 14/12 to 16/12	6.0
Over 8/12 to 9/12	2.0*	Over 16/12 to 18/12	7.0
Over 9/12 to 10/12	2.5	Over 18/12 to 20/12	7.5
Over 10/12 to 11/12	3.25	Over 20/12 to 21/12	8.0

* 3 ft. minimum in snow regions

Figure 6.1 Minimum Height From Roof To Lowest Discharge Opening

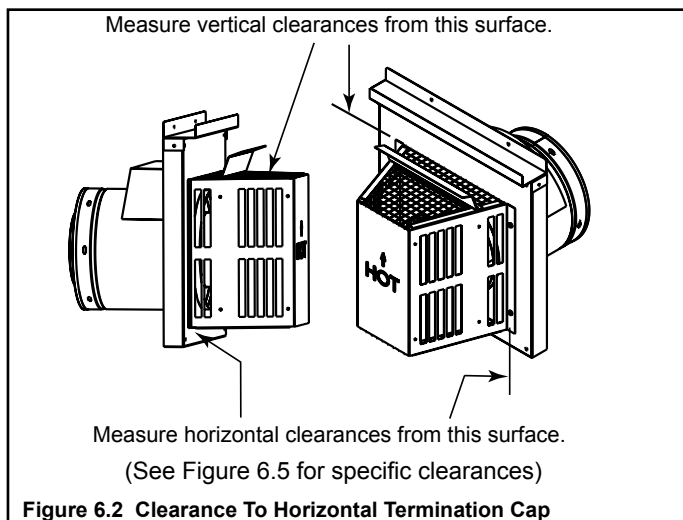


Figure 6.2 Clearance To Horizontal Termination Cap

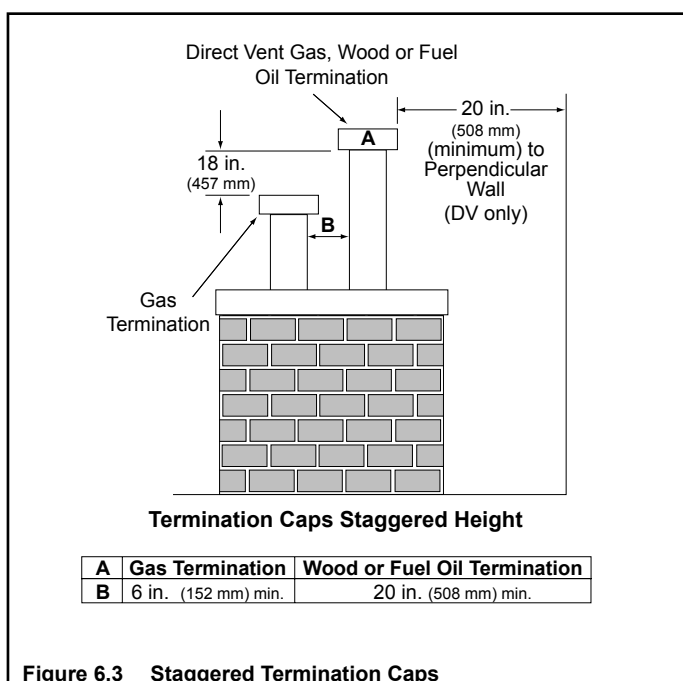


Figure 6.3 Staggered Termination Caps

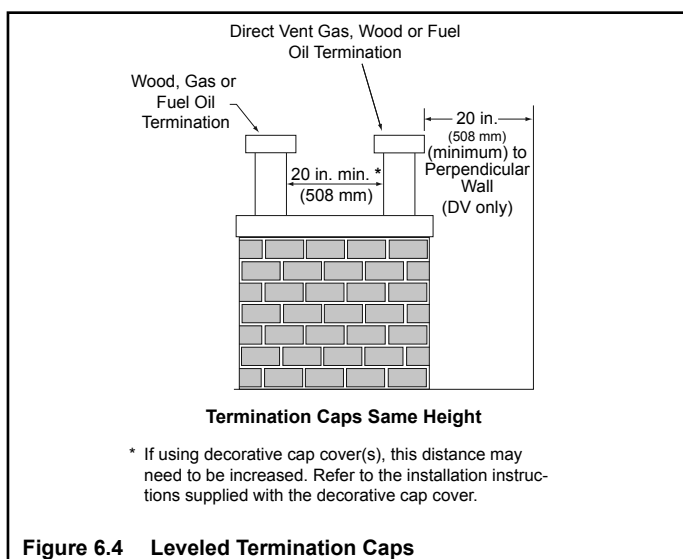
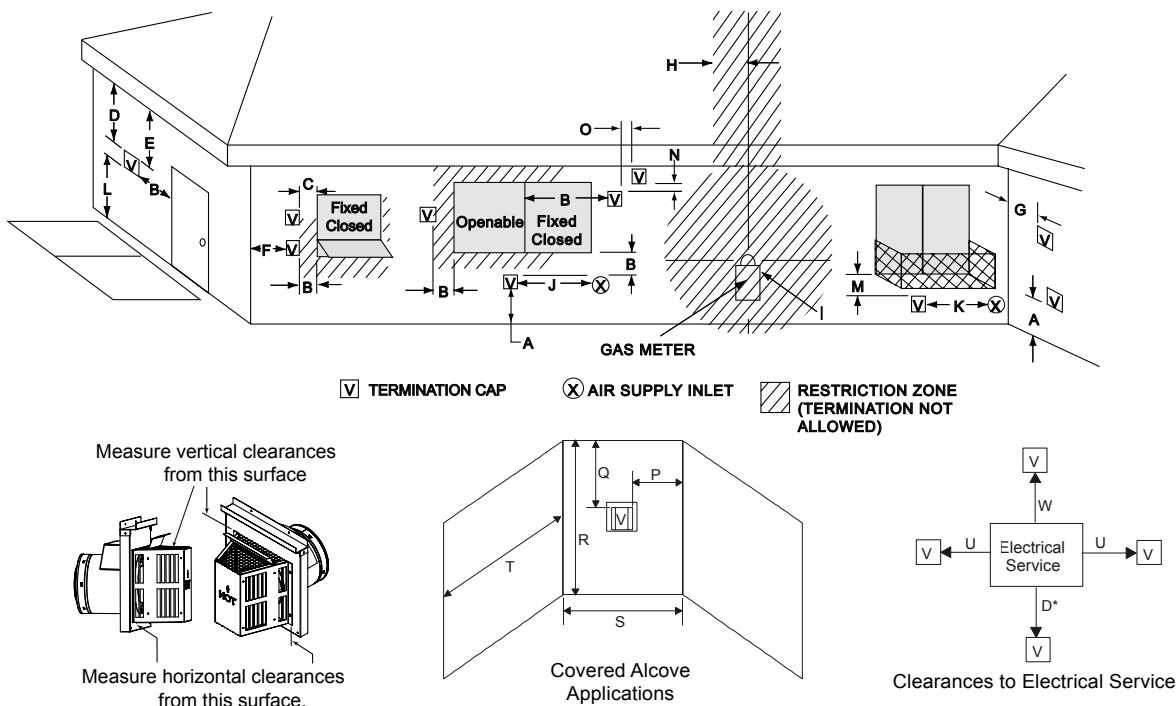


Figure 6.4 Leveled Termination Caps



Dimension Descriptions

- A** Clearance above the ground, a veranda, porch, deck or balcony - 12 in. (30 cm) minimum. *
- B** Clearance to window or door that may be opened - 10,000 BTUs or less, 6 in. (15 cm) minimum; 10,000-50,000 BTUs, 9 in. (23 cm) minimum; over 50,000 BTUs, 12 in. (30 cm) minimum. *
- C** Clearance to permanently closed window - 12 in. (30 cm) minimum - recommended to prevent condensation on window.
- D** Vertical clearance to ventilated soffit located above the termination within a horizontal distance of 2 ft (60 cm) from the centerline of the termination - 18 in. (46 cm) minimum. **
- E** Vertical clearance to unventilated soffit - 12 in. (30 cm) minimum. **
- F** Clearance to outside corner - 6 in. (15 cm) minimum.
- G** Clearance to inside corner - 6 in. (15 cm) minimum.
- H** Not to be installed above a meter/regulator assembly within 3 ft (90 cm) horizontally* from the center line of the regulator (Canada only)
Clearance to service regulator vent outlet - 3 ft (.91 m) U.S. minimum and 3 ft (.91 m) Canada minimum. *
- J** Clearance to non-mechanical air supply inlet into building or the combustion air inlet to any other appliance - 9" (23 cm) U.S. minimum and 12 in. (30 cm) Canada minimum. *
- K** Clearance to mechanical air supply inlet - 3 ft (.91 m) U.S. minimum and 6 ft (1.8 m) Canada minimum. *
- L** Clearance above a paved sidewalk or paved driveway located on public property - 7 ft (2.1 m) minimum.
A vent may not terminate directly above a sidewalk or paved driveway which is located between two single family dwellings and serves both dwellings.
- M** Clearance under veranda, porch, deck or balcony - 12 in. (30 cm) minimum. * Recommended 30 in. (76 cm) for vinyl or plastic.
Only permitted if veranda, porch, deck or balcony is fully open on a minimum of 2 sides beneath the floor. *
- N** Vertical clearance between two horizontal termination caps - 12 in. (30 cm) minimum.

O Horizontal clearance between two horizontal termination caps - 12 in. (30 cm) minimum.

P 6" - Non-vinyl sidewalls

12" - Vinyl sidewalls

Q 18" - Non-vinyl soffit and overhang

42" - Vinyl soffit and overhang

	S_{min}	T_{max}
1 cap	3 ft	2 x S actual
2 caps	6 ft	1 x S actual
3 caps	9 ft	2/3 x S actual
4 caps	12 ft	1/2 x S actual
S_{min} = # term caps x 3		T_{max} = (2/# term caps) x S (actual)

R 8 ft.

U 6" min. - Clearance from sides of electrical service.

W 12" min. - Clearance above electrical service.

* As specified in CGA B149 Installation Codes

Note: Local codes or regulations may require different clearances.

** Clearance required to vinyl soffit material - 30 in. (76 cm) minimum.

Note: Location of the vent termination must not interfere with access to the electrical service.

WARNING!

In the U.S.: Vent system termination is NOT permitted in screened porches. You must follow side wall, overhang and ground clearances as stated in the instructions.

In Canada: Vent system termination is NOT permitted in screened porches. Vent system termination is permitted in porch areas with two or more sides open. You must follow all side wall, overhang and ground clearances as stated in the instructions.

Hearth & Home Technologies assumes no responsibility for the improper performance of the appliance when the venting system does not meet these requirements.

Figure 6.5 Minimum Clearances for Terminations

CAUTION: IF EXTERIOR WALLS ARE FINISHED WITH VINYL SIDING, IT IS SUGGESTED THAT A VINYL PROTECTOR KIT BE INSTALLED.

7 Vent Information and Diagrams

A. Approved Pipe

→ This appliance is approved for use with Hearth & Home Technologies DVP and SLP venting systems. Refer to Section 16B for vent component information.

DO NOT mix pipe, fittings or joining methods from different manufacturers.

The pipe is tested to be run inside an enclosed wall. There is no requirement for inspection openings at each joint within the wall.

WARNING! Risk of Fire or Asphyxiation. This appliance requires a separate vent. **DO NOT** vent to a pipe serving a separate solid fuel burning appliance.

B. Vent Table Key

The abbreviations listed in this vent table key are used in the vent diagrams.

Symbol	Description
V₁	First section (closest to appliance) of vertical length
V₂	Second section of vertical length
H₁	First section (closest to appliance) of horizontal length
H₂	Subsequent sections of horizontal length

C. Use of Elbows

Diagonal runs have both vertical and horizontal vent aspects when calculating the effects. Use the rise for the vertical aspect and the run for the horizontal aspect (see Figure 7.1).

Two 45° elbows may be used in place of one 90° elbow. On 45° runs, one foot of diagonal is equal to 8-1/2 (216 mm) inches horizontal run and 8-1/2 (216 mm) inches vertical run. A length of straight pipe is allowed between two 45° elbows (see Figure 7.1).

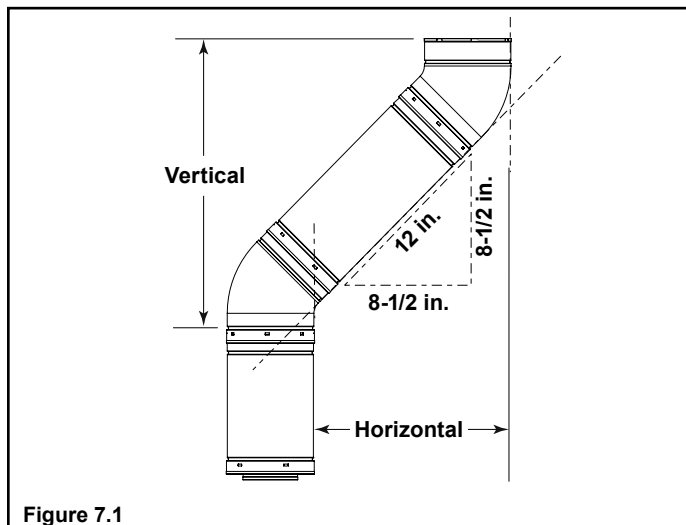
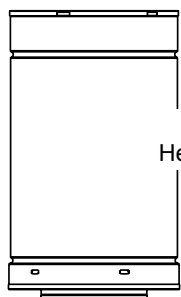
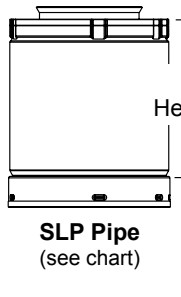


Figure 7.1

D. Measuring Standards

Vertical and horizontal measurements listed in the vent diagrams were made using the following standards.

- Pipe measurements are shown using the effective length of pipe (see Figure 7.2).
- Measurements are made from the appliance outer wrap, not from the standoffs.
- Horizontal terminations are measured to the outside mounting surface (flange of termination cap) (see Figure 6.5).
- Vertical terminations are measured to bottom of termination cap.
- Horizontal pipe installed level with no rise.

	Effective Height/Length		
	Pipe	inches	mm
 DVP Pipe (see chart)	DVP4	4	102
	DVP6	6	152
	DVP12	12	305
	DVP24	24	610
	DVP36	36	914
	DVP48	48	1219
	DVP6A	3 - 6	76 - 152
	DVP12A	3 - 12	76 - 305
	DVP12MI	3 - 12	76 - 305
	DVP24MI	3 - 24	76 - 610
 SLP Pipe (see chart)	SLP4	4	102
	SLP6	6	152
	SLP12	12	305
	SLP24	24	610
	SLP36	36	914
	SLP48	48	1219
	SLP6A	2 - 6	51 - 152
	SLP12A	2 - 12	51 - 305

→ Figure 7.2 Pipe Effective Length

E. Vent Diagrams

To replace the first starter elbow with two 45° elbows, refer to Figure 7.4. All other 90° elbows can be replaced with two 45° elbows.

General Rules:

- SUBTRACT 3 ft. from the total H measurement for each 90° elbow installed horizontally.
- SUBTRACT 1-1/2 ft. from the total H measurement for each 45° elbow installed horizontally.
- A maximum of three 90° elbows (or six 45° elbows) may be used in any vent configuration. Some elbows may be installed horizontally.
- Elbows may be placed back to back anywhere in the system as long as the first 90° elbow is a starter elbow except as shown in Figure 7.3.
- When penetrating a combustible wall, a wall shield firestop must be installed.
- When penetrating a combustible ceiling, a ceiling firestop must be installed.
- Horizontal runs of vent do not require vertical rise; horizontal runs may be level.

1. Top Vent - Horizontal Termination

Two 45° Elbows

Installation requirements to replace the first 90° elbow with two 45° elbows:

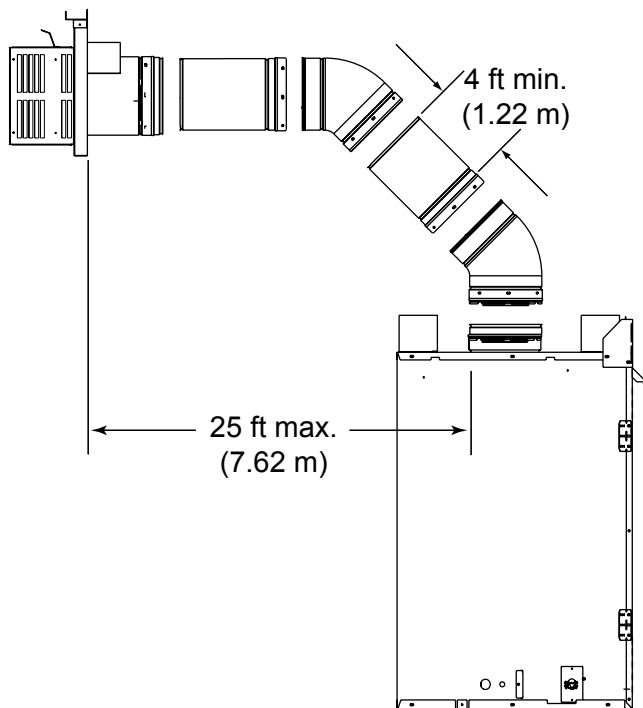


Figure 7.3 Minimum Installation Requirements for Two 45° Elbows-Top Vent-Horizontal Termination

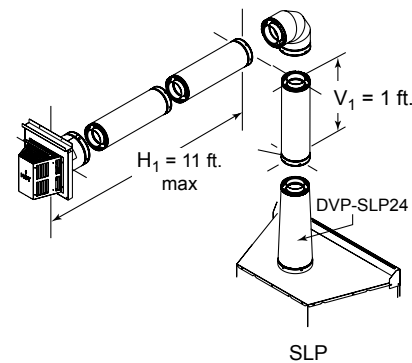
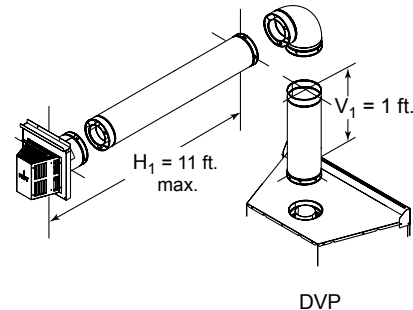
→ **Note:** The NDV series appliances can adapt to SLP series vent pipe when venting off the top of the appliance. You must use a DVP-SLP24 adapter which can only be attached to the appliance starting collar.

When looking at horizontal termination diagrams, the adapter is not counted as part of the minimum vertical (V_1 min.) requirements.

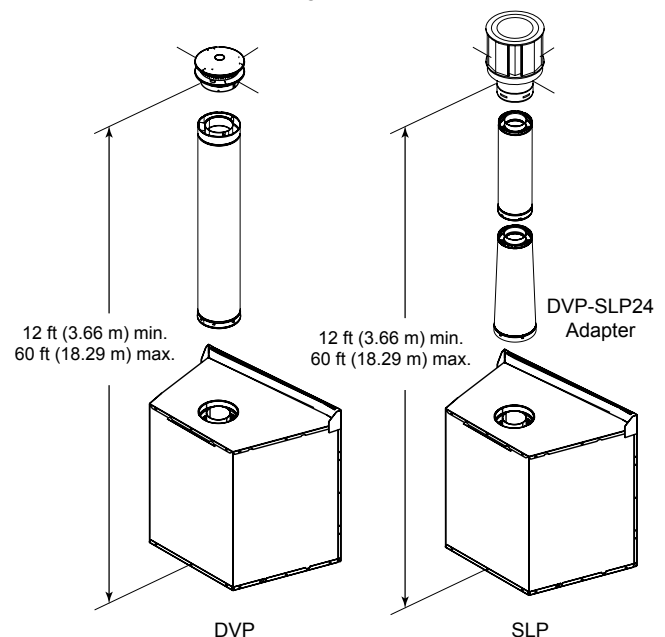
Whether horizontal or vertical termination, the adapter is counted as part of the maximum vertical limitations.

All venting rules for the vent run must still be followed.

HORIZONTAL EXAMPLE

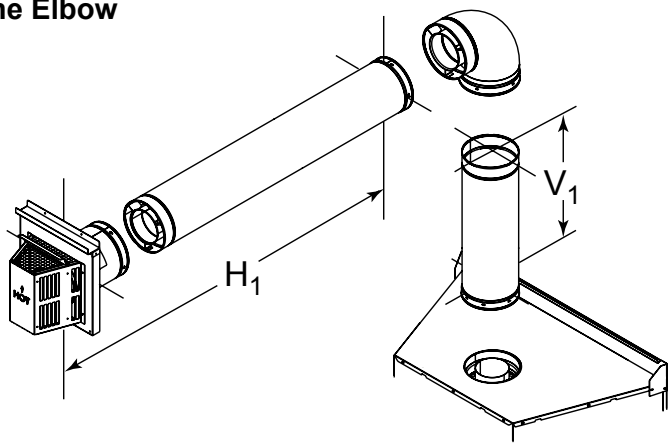


VERTICAL EXAMPLE



1. Top Vent - Horizontal Termination - (continued)

→ One Elbow



V ₁ Min	V ₁ Max	H ₁ Max.
0*	-	24 in./635 mm
4 in./102 mm	-	4 ft/1.22 m
6 in./152 mm	-	6 ft/1.83 m
12 in./305 mm	-	11 ft/3.35 m
18 in./457 mm	-	18 ft/5.49 m
24 in./610 mm	-	25 ft/7.62 m
-	25 ft/7.62 m (DVP)	25 ft/7.62 m
-	23 ft/7.62 m (SLP)	25 ft/7.62 m

* You may install the elbow directly on top of the appliance (DVP only).

Figure 7.4

→ Two Elbows

Note: Subtract 3 ft (914 mm) from the total horizontal measurement for each 90° elbow installed horizontally. Subtract 1-1/2 ft (457 mm) from the total horizontal measurement for each 45° elbow installed horizontally.

V ₁ min.	V ₁ max.	H ₁ +H ₂ max.	H ₁ +H ₂ +H ₃ max.
6 in./152 mm	-	6 ft/1.83 m	-
12 in./305 mm	-	11 ft/3.35 m	11 ft/3.35m
18 in./457 mm	-	18 ft/5.49 m	18 ft/5.49m
24 in./610 mm	-	25 ft/7.62m	25 ft/7.62m
-	25 ft/7.62 m (DVP)	25 ft/7.62m	25 ft/7.62m
-	23 ft/7.01 m (SLP)	25 ft/7.62m	25 ft/7.62m

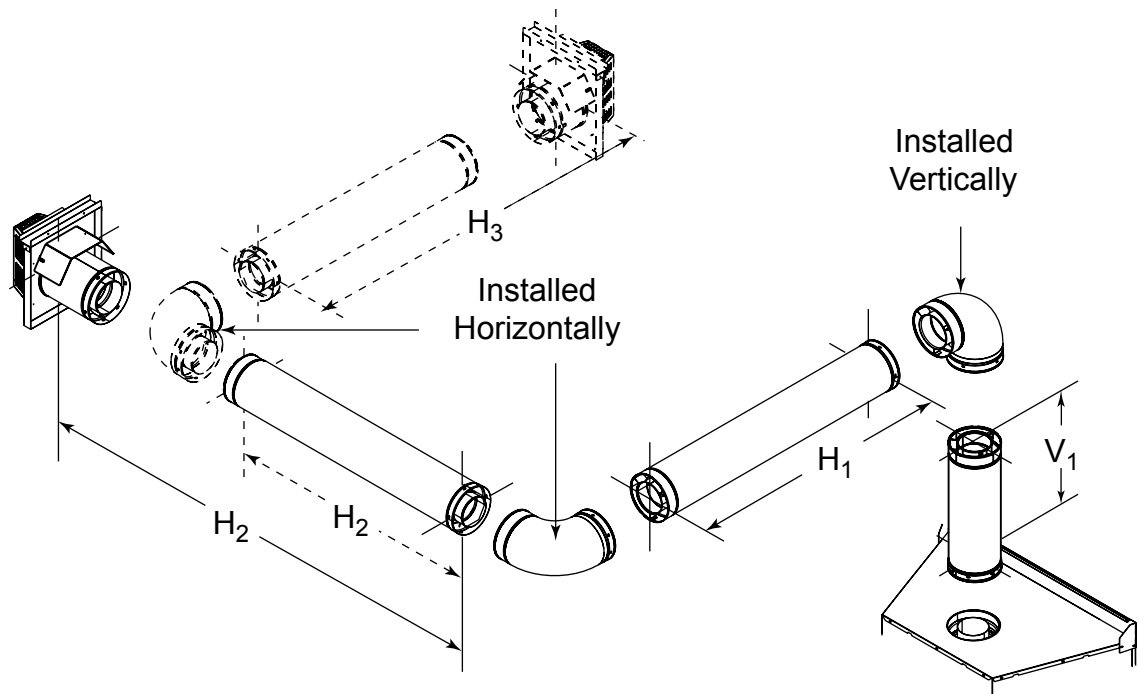


Figure 7.5

1. Top Vent - Horizontal Termination - (continued)

→ Three Elbows

V_1 min.	V_1+V_2 max.	H_1+H_2 max.
12 in./305 mm	24 ft/7.32 m (DVP)	19 ft/5.79 m
12 in./305 mm	22 ft/6.71 m (SLP)	19 ft/5.79 m

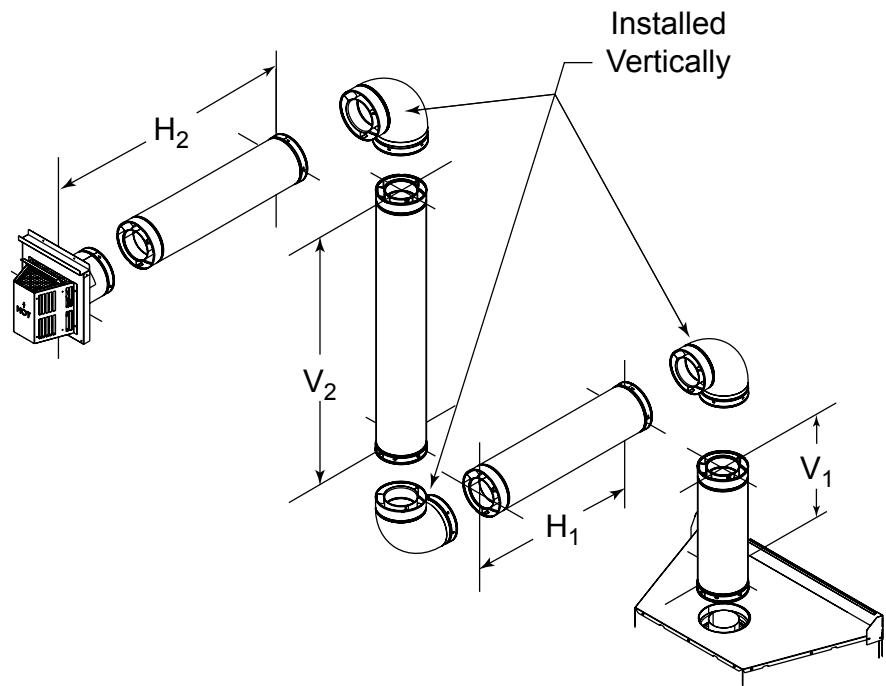


Figure 7.6

2. Top Vent - Vertical Termination

No Elbow

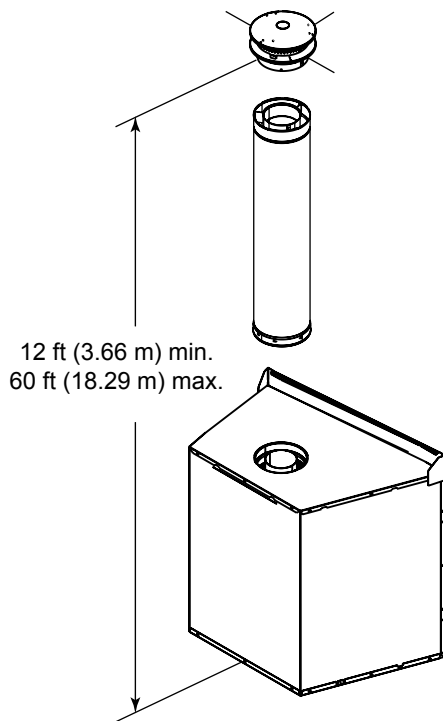


Figure 7.7a

Two Elbows

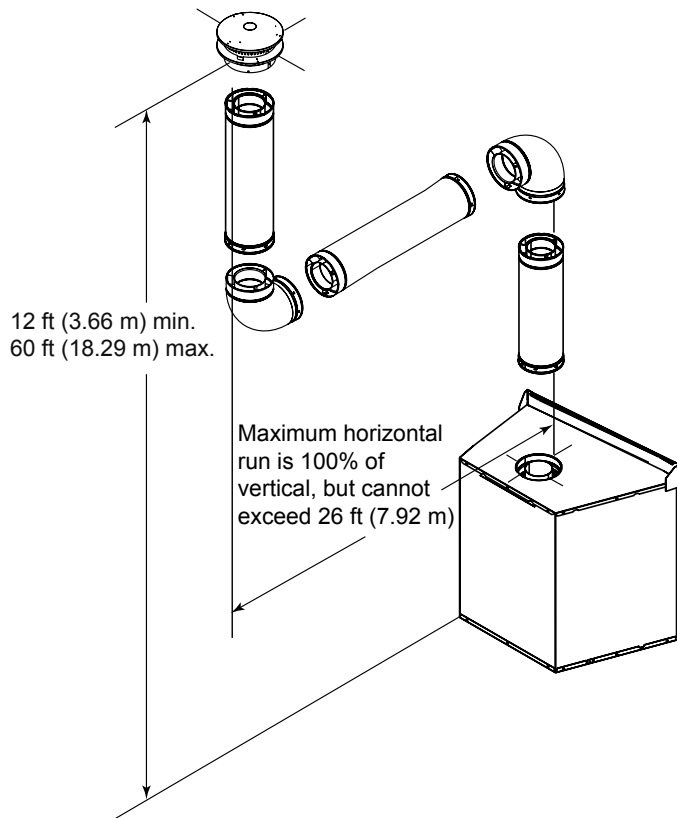


Figure 7.8

→ Install Top Vent Flue Visor - No Elbow Configurations

- Remove screws holding flue visor to firebox top. See Figure 7.7b.
- Remove the flue visor.
- Using the screws removed and the same holes, install the top vent flue baffle and flue visor.
 - The flue visor will be turned to install below the level of the firebox top for 12-30 ft vertical runs of vent. See Figure 7.7c.
 - The flue visor will be turned to install inside the flue for vertical vent runs of 31-60 ft. See Figure 7.7d.



Figure 7.7b Remove Flue Visor



Figure 7.7c 12 to 30 ft Vertical Run

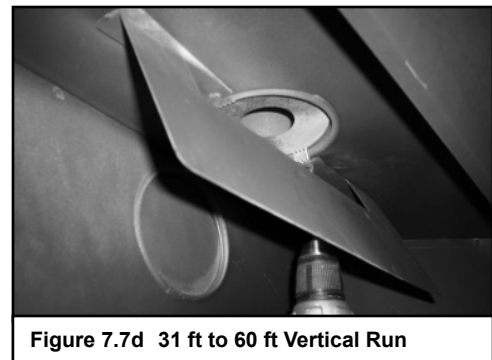


Figure 7.7d 31 ft to 60 ft Vertical Run

2. Top Vent - Vertical Termination - (continued)

Three Elbows

Note: Subtract 3 ft (914 mm) from the total horizontal measurement for each 90° elbow installed horizontally. Subtract 1-1/2 ft (457 mm) from the total horizontal measurement for each 45° elbow installed horizontally.

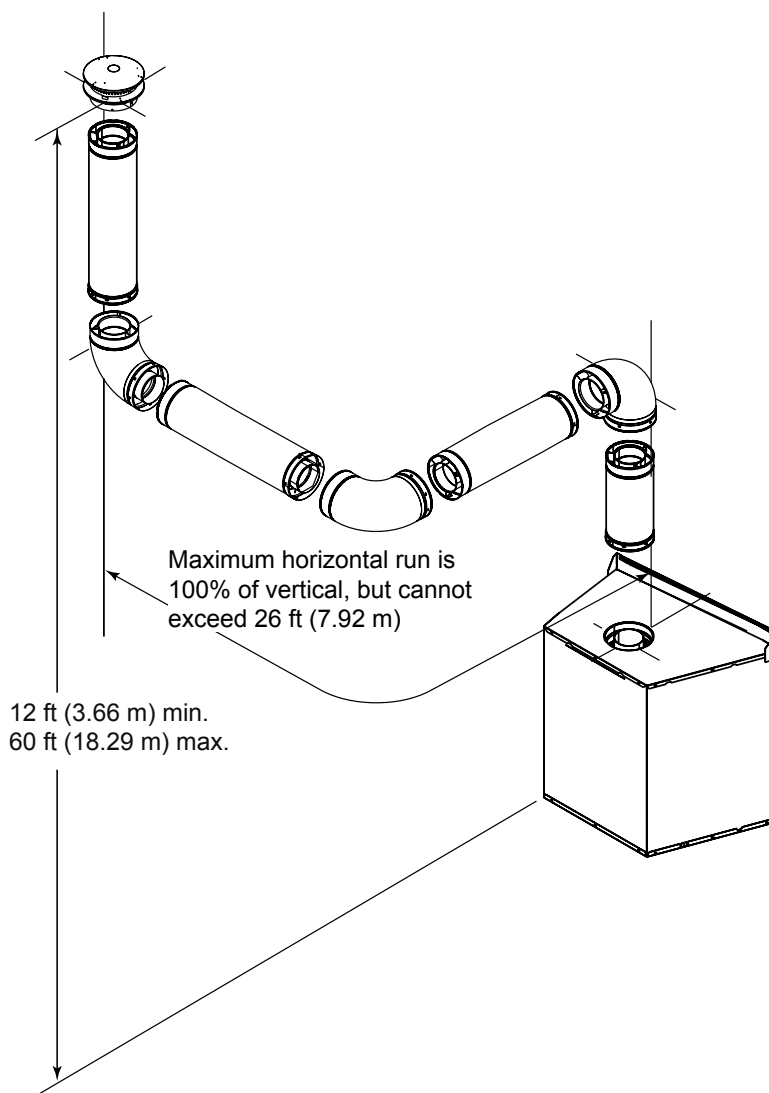


Figure 7.9

3. Rear Vent - Horizontal Termination (DVP only)

No Elbow

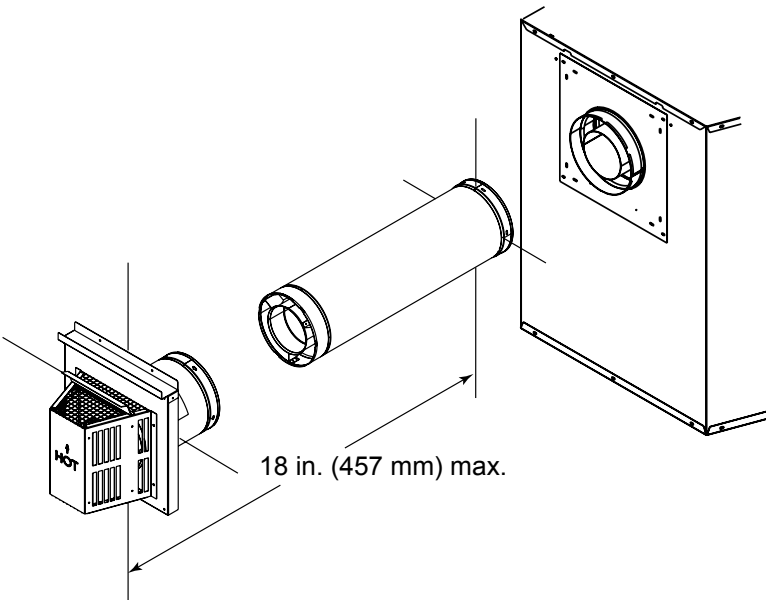


Figure 7.10

One 45° Elbow

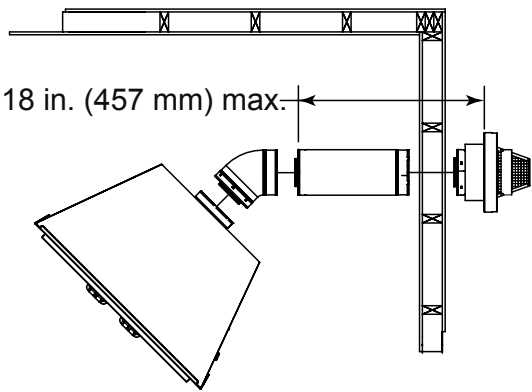
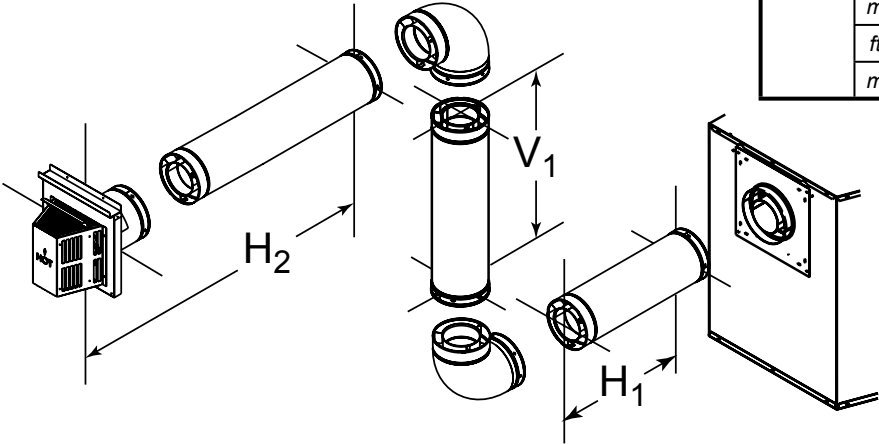


Figure 7.11

3. Rear Vent - Horizontal Termination (DVP only) - (continued)

Two Elbows

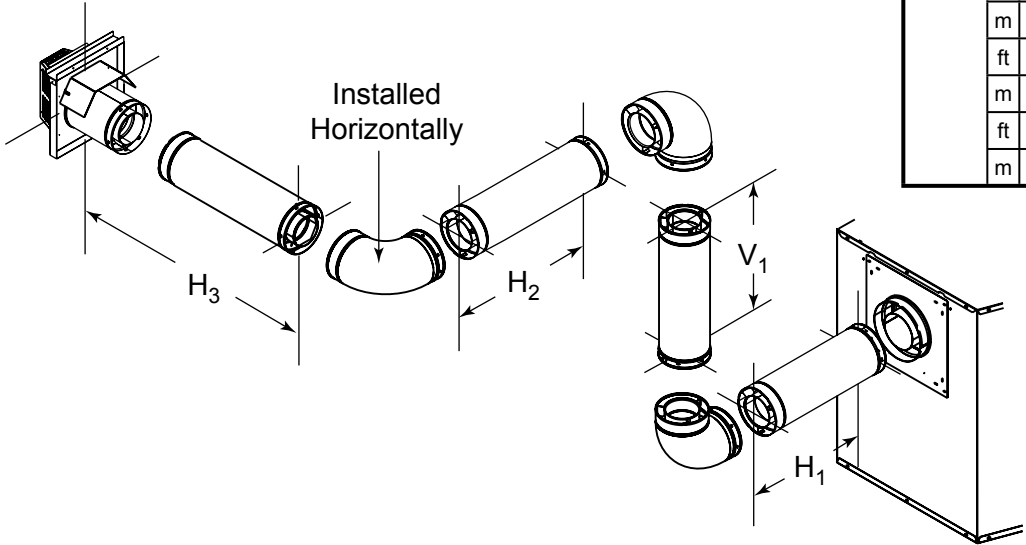


Model		H1 Max	Total Vert V Min.	Total Horiz H1 + H2 + H3
NDV Series	ft	0-2	1	3
	m	0-.61	0.31	0.91
	ft	4	2	6
	m	1.22	0.61	1.83
	ft	6	3	9
	m	1.83	0.91	2.74
	ft	8	4	12
	m	2.44	1.22	3.66
	ft	8	5	15
	m	2.44	1.52	4.57
	ft	8	6	18
	m	2.44	1.83	5.49

Figure 7.12

Three Elbows

Note: Subtract 3 ft (914 mm) from the total horizontal measurement for each 90° elbow installed horizontally. Subtract 1-1/2 ft (457 mm) from the total horizontal measurement for each 45° elbow installed horizontally.



Model		H1 Max	Total Vert V Min.	Total Horiz H1 + H2 + H3
NDV Series	ft	0-2	1	3
	m	0-.61	0.31	0.91
	ft	4	2	6
	m	1.22	0.61	1.83
	ft	6	3	9
	m	1.83	0.91	2.74
	ft	8	4	12
	m	2.44	1.22	3.66
	ft	8	5	15
	m	2.44	1.52	4.57
	ft	8	6	18
	m	2.44	1.83	5.49

Figure 7.13

4. Rear Vent - Vertical Termination (DVP only)

One Elbow

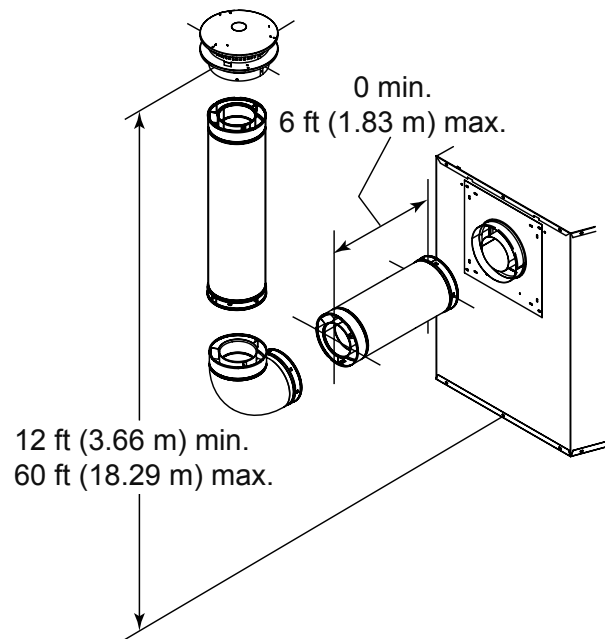
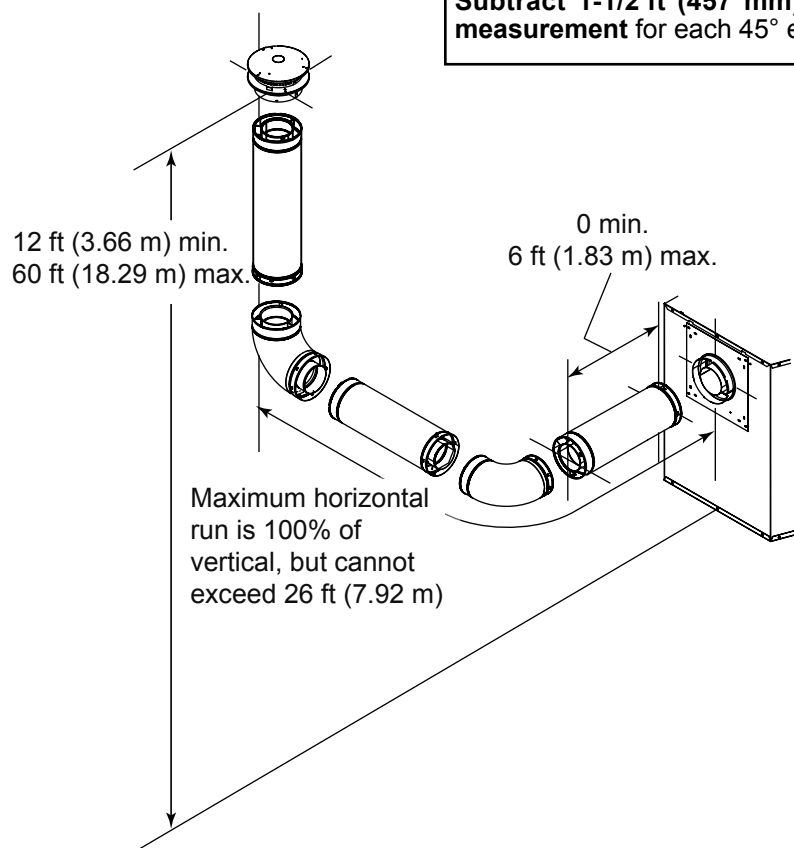


Figure 7.14

Two Elbows



Note: Subtract 3 ft (914 mm) from the total horizontal measurement for each 90° elbow installed horizontally. Subtract 1-1/2 ft (457 mm) from the total horizontal measurement for each 45° elbow installed horizontally.

Figure 7.15

4. Rear Vent - Vertical Termination (DVP only) - (continued)

Three Elbows

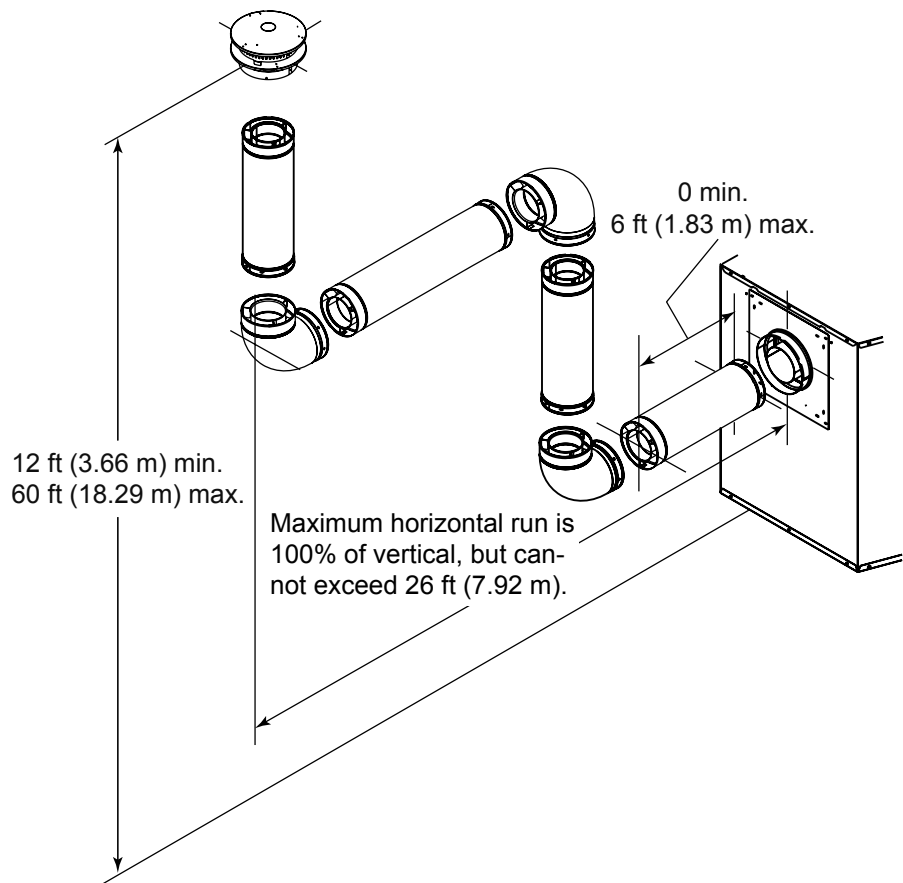


Figure 7.16

8 Vent Clearances and Framing

A. Pipe Clearances to Combustibles

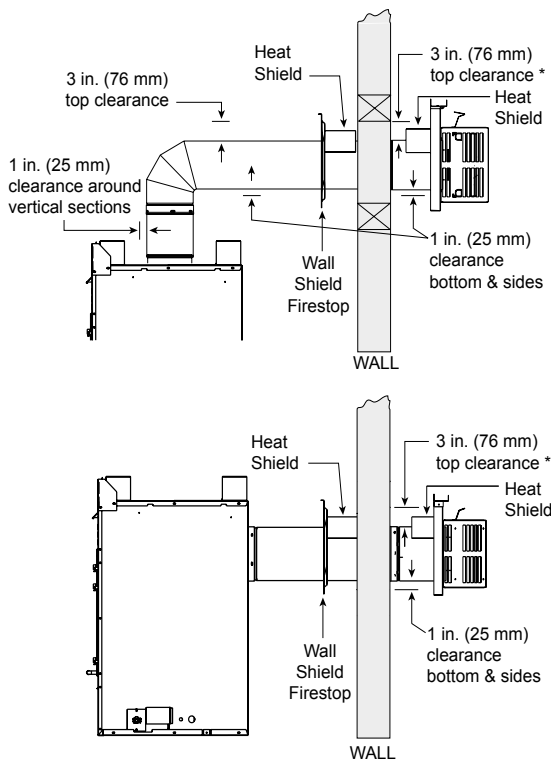
WARNING! Risk of Fire! Maintain air space clearance to vent. DO NOT pack insulation or other combustibles:

- Between ceiling firestops
 - Between wall shield firestops
 - Around vent system
- Failure to keep insulation or other material away from vent pipe may cause over heating and fire.

Note: Heat shields MUST overlap by a minimum of 1-1/2 in. (38 mm).

- **DVP heat shield** - designed to be used on a wall 4 in. to 7-1/4 in. (102 mm to 184 mm) thick.
- If wall thickness is less than 4 in. the existing heat shields must be field trimmed. If wall thickness is greater than 7-1/4 in. a DVP-HSM-B will be required.
- **SLP heat shield** - designed to be used on a wall 4-3/8 in. to 7-5/8 in. (111 mm to 194 mm) thick.
- If wall thickness is less than 4-3/8 the existing heat shields must be field trimmed. If wall thickness is greater than 7-5/8 in. a DVP-HSM-B will be required.

(DVP-SLP Pipe Shown)



* When using SLP pipe, minimum clearances from the vent pipe to combustible materials at inside wall firestops are:
 Top: 2-1/2 in. (64 mm)
 Bottom: 1/2 in. (13 mm)
 Sides: 1 in. (25 mm)

Figure 8.1 Pipe Clearances

B. Wall Penetration Framing

Combustible Wall Penetration

Frame a hole in a combustible wall for an interior wall shield firestop, (Figure 8.2) whenever a wall is penetrated.

The opening must be framed on all four sides using the same size framing materials as those used in the wall construction. The wall shield firestop maintains minimum clearances and prevents cold air infiltration.

Non-Combustible Wall Penetration

If the hole being penetrated is surrounded by noncombustible materials such as concrete, a hole with diameter 1 in. greater than the pipe is acceptable.

Whenever a non-combustible wall is penetrated, the wall shield firestop is only required on one side and no heat shield is necessary.

If your local inspector requires the wall shield firestop on both sides, then both wall shield firestops must have a heat shield attached to them.

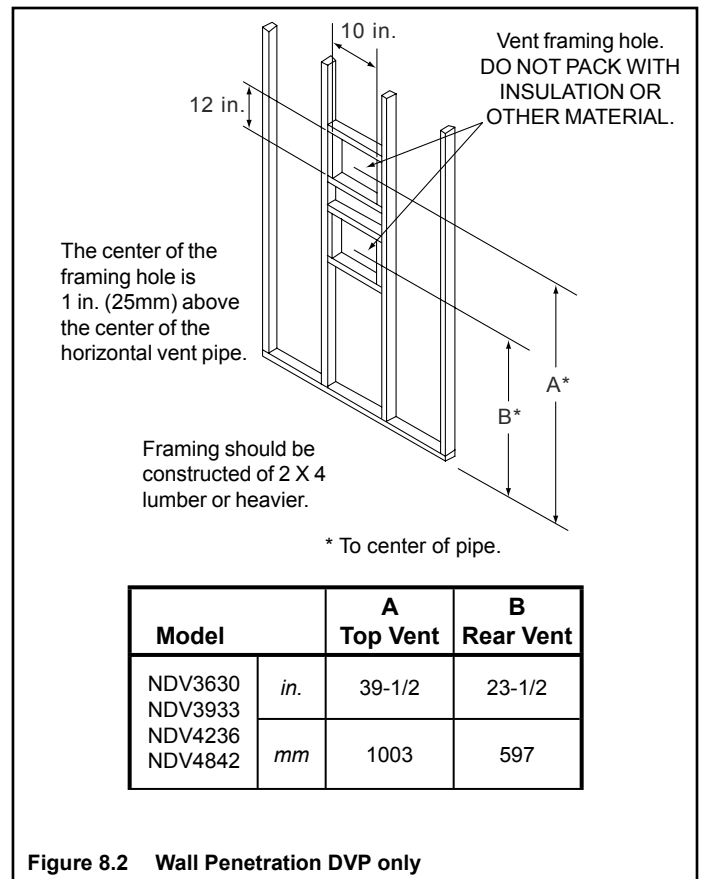


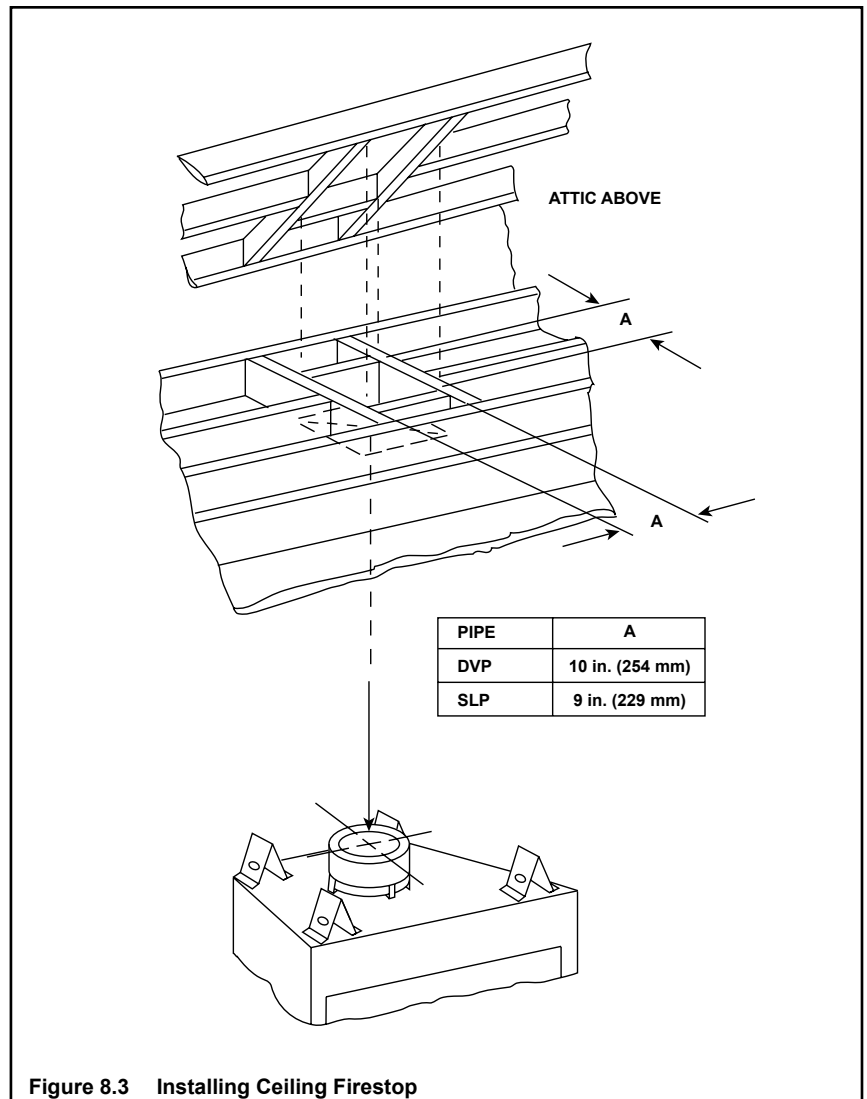
Figure 8.2 Wall Penetration DVP only

C. Install the Ceiling Firestop

A ceiling firestop **MUST** be used between floors and attics.

- ➔ • DVP Pipe only - Frame an opening 10 in. by 10 in. (254 mm by 254 mm) whenever the vent penetrates a ceiling/floor (see Figure 8.3).
- ➔ • SLP Pipe only - Frame an opening 9 in. by 9 in. (229 mm x 229 mm) whenever the vent penetrates a ceiling/floor (see Figure 8.3).
- Frame the area with the same sized lumber as used in ceiling/floor joist.
- The ceiling firestop may be installed above or below the ceiling joists when installed with a attic insulation shield. It must be under joists between floors that are not insulated. Refer to Figure 8.4.
- Secure with three fasteners on each side.

WARNING! Risk of Fire. DO NOT pack insulation around the vent. Insulation must be kept back from the pipe to prevent overheating.



➔ Figure 8.3 Installing Ceiling Firestop

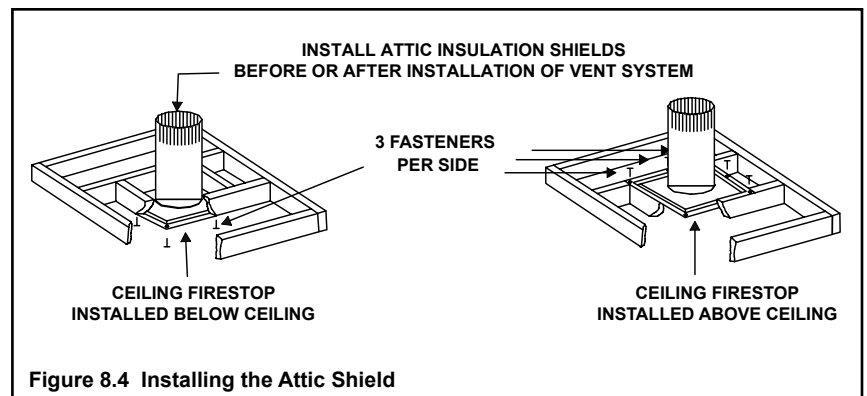


Figure 8.4 Installing the Attic Shield

D. Install Attic Insulation Shield

WARNING! Fire Risk. DO NOT allow loose materials or insulation to touch vent. *Hearth & Home Technologies Inc. requires the use of an attic shield.*

The National Fuel Gas Code ANSI Z223.1 requires an attic shield constructed of 26 gauge minimum metal that extends at least 2 in. (51 mm) above insulation.

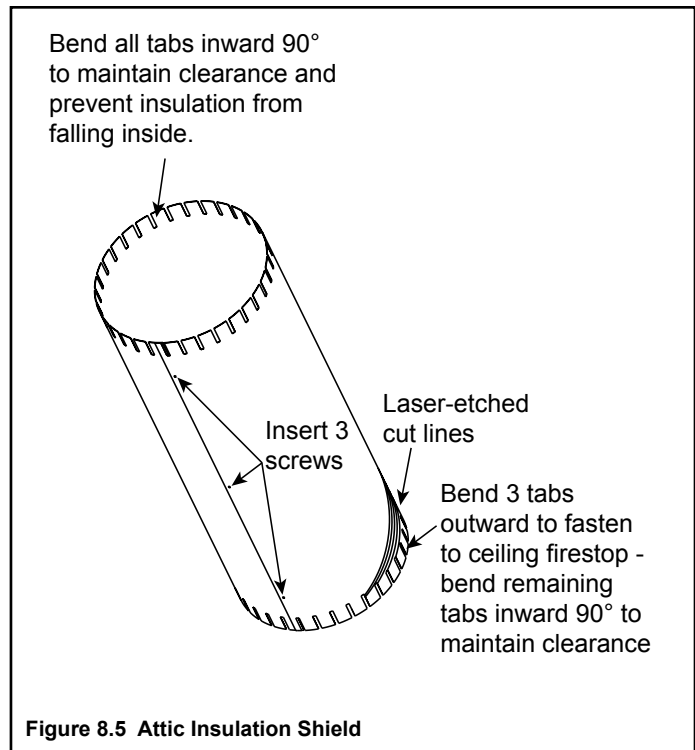
Attic shields must meet specified clearance and be secured in place.

Flat Ceiling Installation

- Remove one shield from box.

Note: Cut previously installed batt insulation to make room for the attic insulation shield.

- Wrap shield around pipe if pipe is already installed in area to be insulated.
- Match the three holes in each side and fasten with three screws to form a tube.
- Bend three tabs on the bottom of the shield outward to allow attachment to the ceiling firestop.
- Bend the remaining tabs inward 90° to maintain the air space between the pipe and the shield. Set the shield on the ceiling firestop and attach to the firestop.
- Bend all tabs inward 90° around the top of the shield. These tabs must be used to prevent blown insulation from getting between the shield and vent pipe, and to maintain air space clearance.



Vaulted Ceiling Installation

- The attic insulation shield has been laser-etched with cut lines and ceiling pitches to make field trimming easier.
- Remove one shield from box.

NOTICE: Cut previously installed batt insulation to make room for the attic insulation shield.

- ➔ Cut the attic insulation shield (if application is for vaulted ceiling) using a laser-etched cut line, to fit your ceiling pitch. Snip cut edge to create 1 in. bend tabs.
- Wrap shield around pipe if pipe is already installed in area to be insulated.
- Match the three holes in each side and fasten with three screws to form a tube.
- Bend three tabs on the bottom of the shield outward to allow attachment to the ceiling firestop.
- Bend the remaining tabs inward 90° to maintain the air space between the pipe and the shield. Set the shield on the ceiling firestop and attach to the firestop.
- Bend all tabs inward 90° around the top of the shield. These tabs must be used to prevent blown insulation from getting between the shield and vent pipe, and to maintain air space clearance.

9 Appliance Preparation

A. Top Vent

CAUTION! Risk of Cuts/Abrasions/Flying Debris. Wear protective gloves and safety glasses during installation. Sheet metal edges are sharp.

NOTICE: Once appliance is set up for top or rear venting, it CANNOT be changed at a later time.

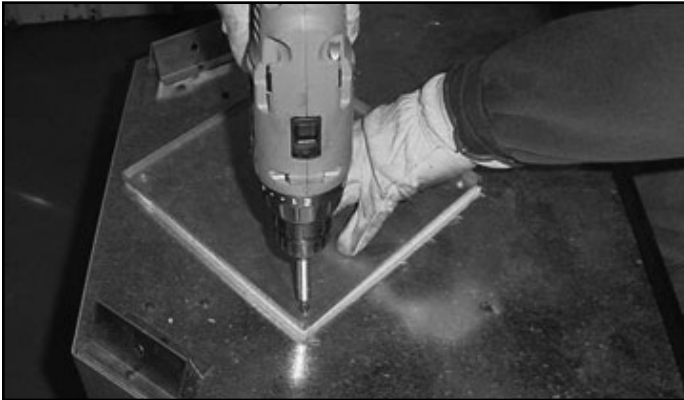


Figure 9.1

- Remove the cover plate by removing the four screws holding it to the top of the appliance. Remove and discard the cover plate.

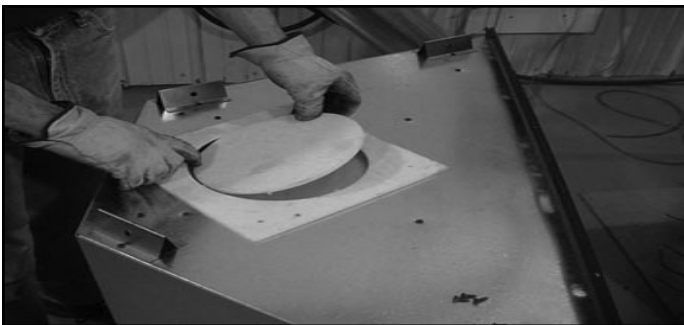


Figure 9.2

- Remove the center insulation plug.

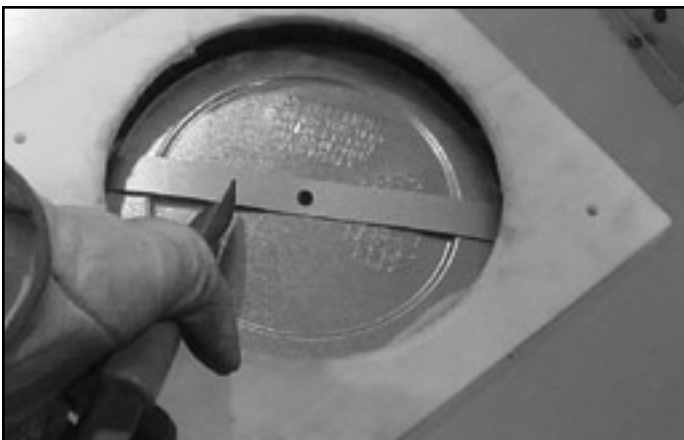


Figure 9.3

- Cut the metal retaining band and fold the sides out.



Figure 9.4

- Fold the center parts of the retaining band up and use to remove the vent cap.



Figure 9.5

- Discard the vent cap, remove and discard the insulation basket. Note: Once the vent cap has been removed it cannot be reattached.

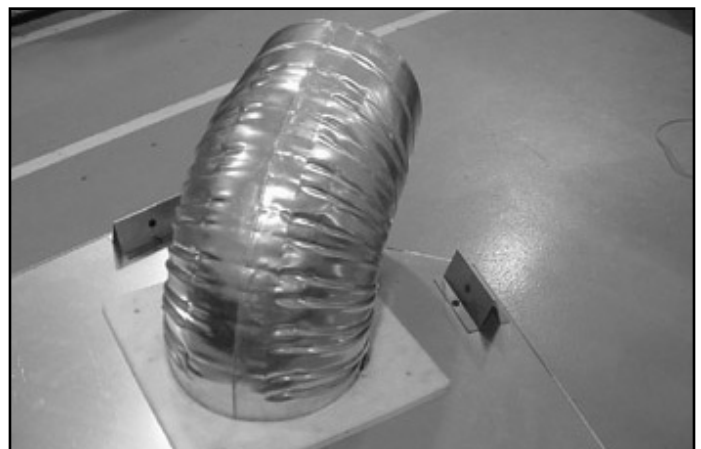


Figure 9.6

- Attach the first vent section. It will snap into place.

Proceed to Section 10. C.

B. Rear Vent

NOTICE: Once appliance is set up for top or rear venting, it CANNOT be changed at a later time.



Figure 9.7

- Fold the tabs toward the center of the fire plug (90°) and remove the insulation gasket.



Figure 9.8

- Cut the metal retaining band and fold the sides out.



Figure 9.9

- Fold the center parts of the retaining band out and use to remove the vent cap.

NOTICE: Once the vent cap has been removed it CANNOT be reattached.



Figure 9.10

- Discard the vent cap, remove and discard the insulation basket.

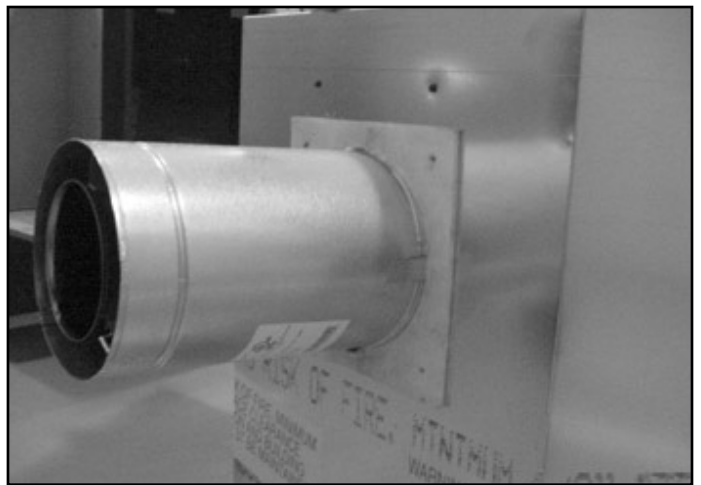


Figure 9.11

- Attach the first vent section (it will snap into place). Slide the insulation gasket onto the vent section, up against the appliance and over the tabs.

C. Secure and Level the Appliance

WARNING! Risk of Fire! Prevent contact with:

- Sagging or loose insulation
- Insulation backing or plastic
- Framing and other combustible materials

Block openings into the chase to prevent entry of blown-in insulation. Make sure insulation and other materials are secured.

DO NOT notch the framing around the appliance standoffs.

Failure to maintain air space clearance may cause overheating and fire.

The diagram shows how to properly position, level, and secure the appliance (see Figure 9.12). Nailing tabs are provided to secure the appliance to the framing members.

- Bend out nailing tabs on each side.
- Place the appliance into position.
- Keep nailing tabs flush with the framing.
- Level the appliance from side to side and front to back.
- Shim the appliance as necessary. It is acceptable to use wood shims underneath the appliance.
- Secure the appliance to the framing by using nails or screws through the nailing tabs.
- Secure the appliance to the floor by inserting two screws through the pilot holes at the bottom of the appliance.

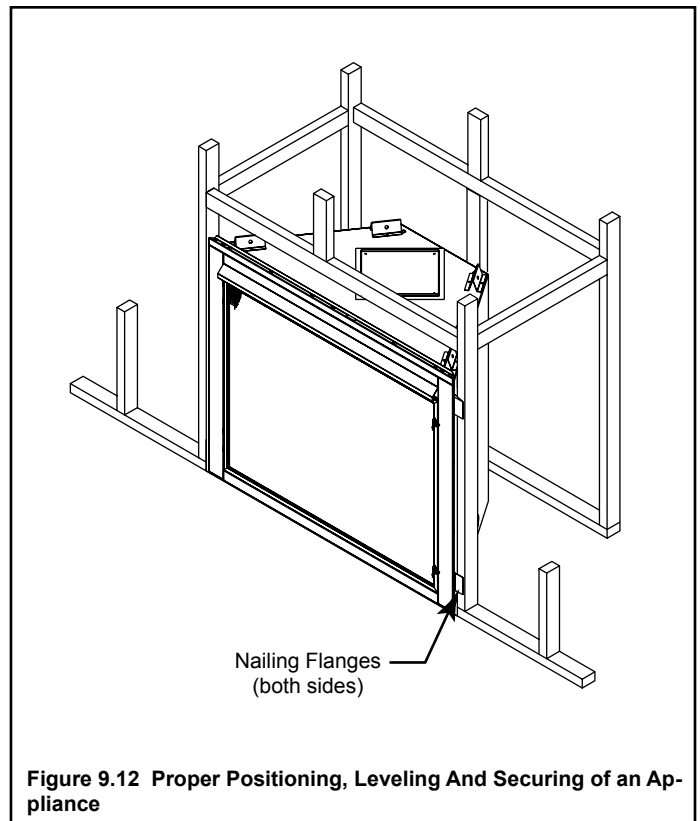


Figure 9.12 Proper Positioning, Leveling And Securing of an Appliance

10 Installing Vent Pipe

→ A. Assemble Vent Sections (DVP only)

Attach Vent to the Firebox Assembly

Note: The end of the pipe sections with the lanced tabs will face toward the appliance.

Attach the first pipe section to the starting collar:

- Lanced pipe end of the starting collar
- Inner pipe over inner collar
- Push the pipe section until all lanced tabs snap in place
- Lightly tug on pipe to confirm it has locked.

Commercial, Multi-family (Multi-level exceeding two stories), or High-Rise Applications

All outer pipe joints must be sealed with high temperature silicone, including the slip section that connects directly to the horizontal termination cap.

- Apply a bead of silicone sealant inside the female outer pipe joint prior to joining sections. See Figure 10.1
- Only outer pipes must be sealed. All unit collar, pipe, slip section, elbow and cap outer flues shall be sealed in this manner, unless otherwise stated.

WARNING! Risk of Fire/Explosion! DO NOT break silicone seals on slip sections. Use care when removing termination cap from slip pipe. If slip section seals are broken during removal of the termination cap, vent will leak and a fire or explosion could occur.

Assemble Pipe Sections

- See Figure 10.2.
 - Start the inner pipe on the lanced end of section A into the flared end of section B.
 - Start the outer pipe of section A over the outer pipe of section B.
 - Once both vents sections are started, push firmly until all lanced tabs lock into place.
 - Lightly tug on the pipe to confirm the tabs have locked.
- It is acceptable to use screws no longer than 1/2 in. (13 mm) to hold outer pipe sections together. If predrilling holes, **DO NOT** penetrate inner pipe.

For 90° and 45° elbows that are changing the vent direction from horizontal to vertical, one screw minimum should be put in the outer flue at the horizontal elbow joint to prevent the elbow from rotating. Use screws no longer than 1/2 in. (13 mm). If predrilling screw holes, **DO NOT** penetrate inner pipe.



Figure 10.1 High Temperature Silicone Sealant

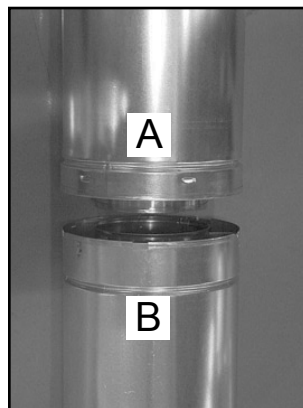


Figure 10.2

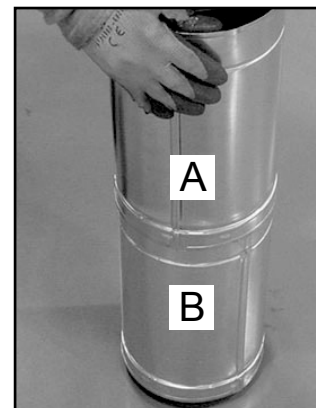
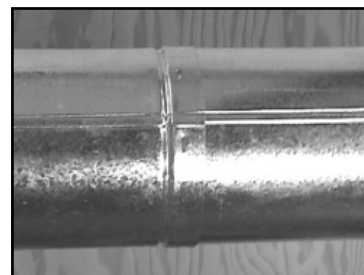


Figure 10.3

Note: Make sure that the seams are not aligned to prevent unintentional disconnection.



CORRECT



INCORRECT

Figure 10.4 Seams

→ B. Assemble Vent Sections (SLP Pipe Only)

To attach the first vent component to the starting collars of the appliance

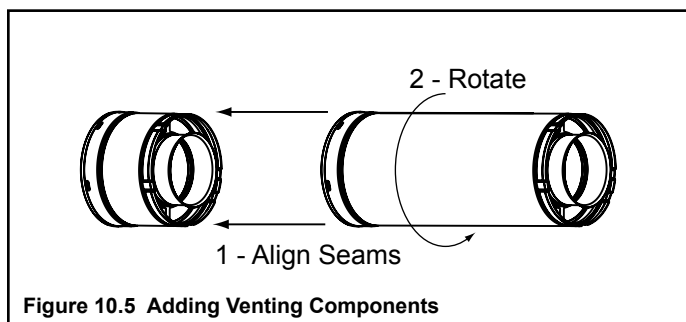
- Attach an SLP-DVP24 adapter to the starting collar of the appliance.
- Lock the vent components into place by sliding the pipe section onto the collar.
- Align the seam of the pipe and seam of collar to allow engagement. Rotate the vent component to lock into place. Use this procedure for all vent components. See Figure 10.5.
- Slide the gasket over the first vent section and place it flush to the appliance. This will prevent cold air infiltration. High temperature caulk may be used to hold the part in place.
- Continue adding vent components, locking each succeeding component into place.
- Ensure that each succeeding vent component is securely fitted and locked into the preceding component.

Commercial, Multi-family (Multi-level exceeding two stories), or High-Rise Applications

For Installation into a commercial, multi-family (multi-level exceeding two stories) or high-rise applications: All outer pipe joints must be sealed with high temperature silicone, including the slip section that connects directly to the horizontal termination cap.

- Apply a bead of silicone sealant inside the female outer pipe joint prior to joining sections. See Figure 10.1
- Only outer pipes need to be sealed. All unit collar, pipe, slip section, elbow and cap outer flues shall be sealed in this manner, unless otherwise stated.

WARNING! Risk of Fire or Explosion! DO NOT break silicone seals on slip sections. Use care when removing termination cap from slip pipe. If slip section seals are broken during removal of the termination cap, vent may leak.



→ C. Assemble MI Sections (DVP only)

WARNING! Risk of Fire or Asphyxiation! Overlap pipe sections at least 1 1/2 in. (38 mm). Secure MI sections with three screws which must not exceed 1/2 in. (13 mm) in length. Pipe could separate if not properly joined.

MI (Minimum Installation) sections are non-unitized so that they can be cut to a specific length.

- Cut sections to length from the non-expanded end (see Figure 10.6). Maintain 1-1/2 in. (38 mm) overlap.
- Connect the expanded end of the MI inner flue with the inner flue of the adjacent pipe section and secure with three screws.

CAUTION! Risk of Fire! The expanded portion of the MI inner flue must overlap completely with the unexpanded end of the adjacent pipe section.

- Connect the cut end of the MI outer flue with the expanded end of the outer flue of the adjacent pipe section and secure with three screws.
- It is acceptable to use screws no longer than 1/2 in. (13 mm) to hold outer pipe sections together. If predrilling holes, DO NOT penetrate inner pipe.
- Continue adding pipe sections as necessary following instructions in "Assemble Pipe Sections."

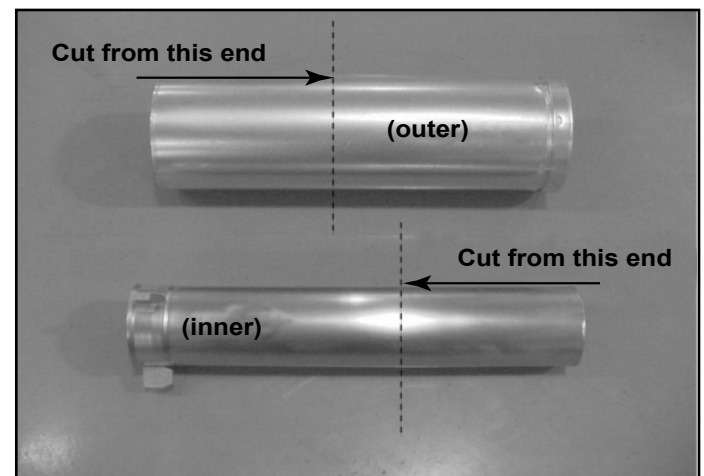


Figure 10.6 MI Sections

→ D. Assemble Slip Sections

WARNING! Risk of Fire or Asphyxiation! Overlap pipe sections at least 1 1/2 in. (38 mm). Secure slip sections with two screws which must not exceed 1/2 in. (13 mm) in length. Use the pilot holes. Pipe could separate if not properly joined.

- Slide the inner flue of the slip section into the inner flue of the pipe section and the outer flue of the slip section over the outer flue of the pipe section. See Figure 11.7.
- Slide together to the desired length.

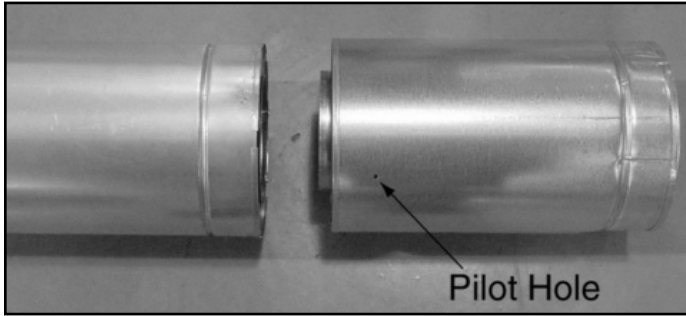


Figure 10.7 Slip Section Pilot Holes

- Maintain a 1-1/2 in. (38 mm) overlap between the slip section and the pipe section.
- Secure the pipe and slip section with two screws no longer than 1/2 in. (13 mm), using the pilot holes in the slip section. See Figure 10.8.

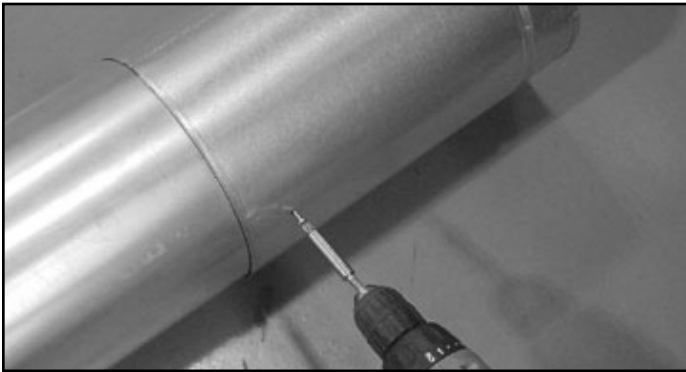


Figure 10.8 Screws into Slip Section

- Continue adding pipe as necessary following instructions in “Assembling Pipe Sections.”

NOTICE: If slip section is too long, the inner and outer flues of the slip section can be cut to the desired length.

NOTICE: When installing a vent system with an HRC termination cap, all pipe system joints shall be sealed using a high temperature silicone sealant.

- Apply a bead of silicone sealant inside the female outer pipe joint prior to joining sections.
- Only outer pipes are sealed, sealing the inner flue is not required.
- All unit collar, pipe, slip section, elbow and cap outer flues shall be sealed.

→ E. Secure the Vent Sections

- Vertical runs of DVP pipe must be supported every 8 ft. (2.44 m) after the 25 ft. (7.62 m) maximum unsupported rise.
- Vertical runs of SLP pipe must be supported every 8 ft. (2.44 m).
- Horizontal sections of vent must be supported every 5 ft. (1.52 m) with a vent support or plumber's strap.
- Wall shield firestops may be used to provide horizontal support.
- Vent support or plumber's strap (spaced 120° apart) may be used for support. See Figures 10.9 and 10.10.
- SLP ceiling firestops have tabs that may be used to provide vertical support.

WARNING! Risk of Fire, Explosion or Asphyxiation! Improper support may allow vent to sag and separate. Use vent run supports and connect vent sections per installation instructions. **DO NOT** allow vent to sag below connection point to appliance.

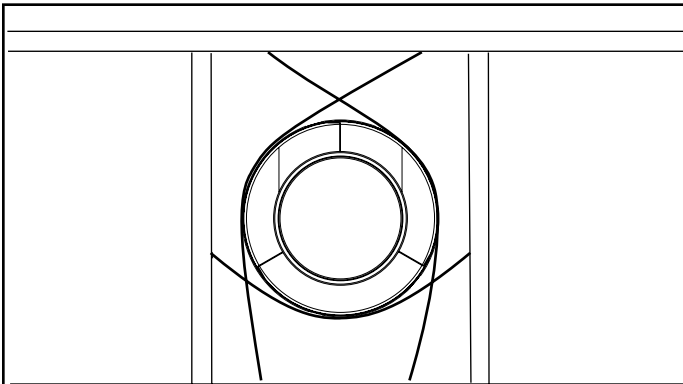


Figure 10.9 Securing Vertical Pipe Sections

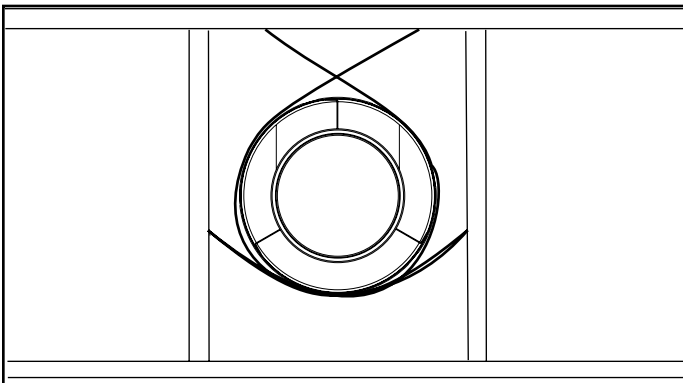


Figure 10.10 Securing Horizontal Pipe Sections

→ F. Disassemble Vent Sections

- Rotate either section (see Figure 10.11) so the seams on both pipe sections are aligned as shown in Figure 10.12.
- Pull carefully to separate the pieces of pipe.

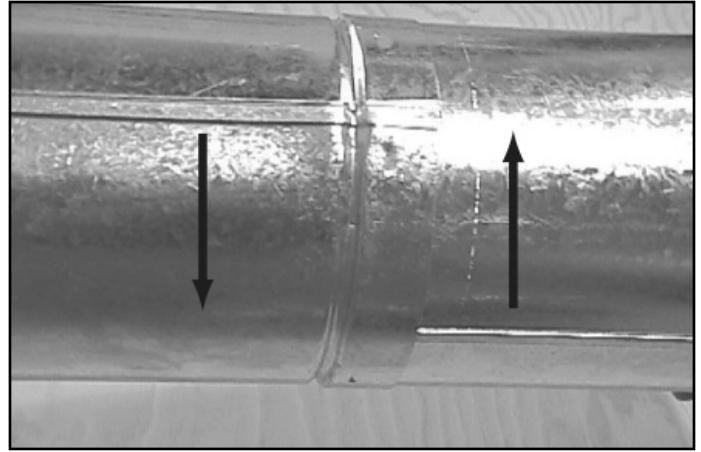


Figure 10.11 Rotate Seams for Disassembly

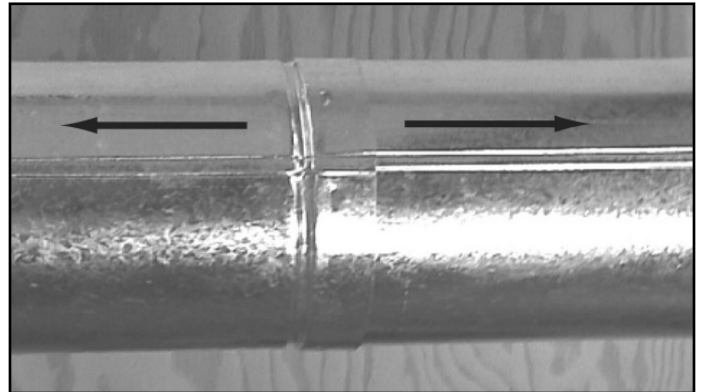


Figure 10.12 Align and Disassemble Vent Sections

→ G. Install Decorative Ceiling Components (SLP only)

A black painted decorative ceiling thimble can be installed on a flat ceiling through which the vent passes. The ceiling thimble is used to cover the firestop, which is installed according to section 8.C.

- Seal the gap between the vent pipe and firestop using high temperature silicone to prevent cold air infiltration.
- Install the decorative ceiling thimble by sliding it up to the ceiling and attaching it using the provided screws.

A decorative black cathedral ceiling support box can be used where vertical vent runs pass through a cathedral ceiling.

- Use a plumb-bob to mark the center line of the venting system on the ceiling and drill a small hole through the ceiling and roof at this point. Locate the hole and mark the outline of the cathedral ceiling support box on the outside roof.
- Remove shingles or other roof covering as necessary to cut the rectangular hole for the support box. Cut the hole 1/8 in. (3 mm) larger than the support box outline.
- Lower the support box through the hole in the roof until its bottom is at least 2 in. (51 mm) below the ceiling (Figure 10.13).
- Level the support box both vertically and horizontally and temporarily tack it in place through the inside walls into the roof sheathing.
- Use tin snips to cut the support box from the top corners down to the roof line and fold the resulting flaps to the roof. See Figure 10.14.
- Nail the flaps to the roof AFTER running a bead of non hardening sealant between the flaps and the roof.

WARNING! Risk of Fire! Clean out ALL materials from inside the support box and complete the vertical vent run and termination.

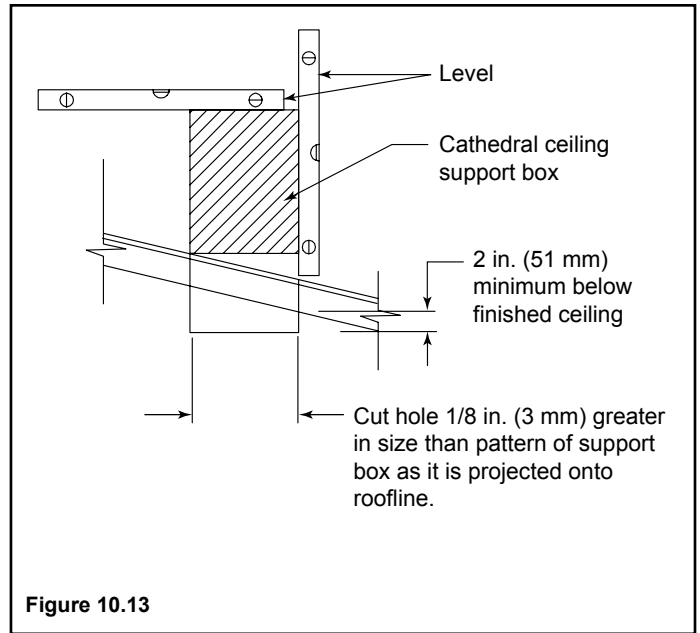


Figure 10.13

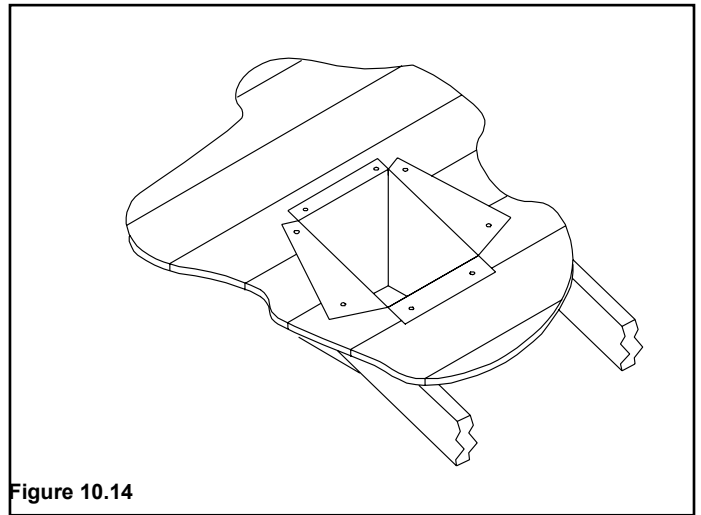
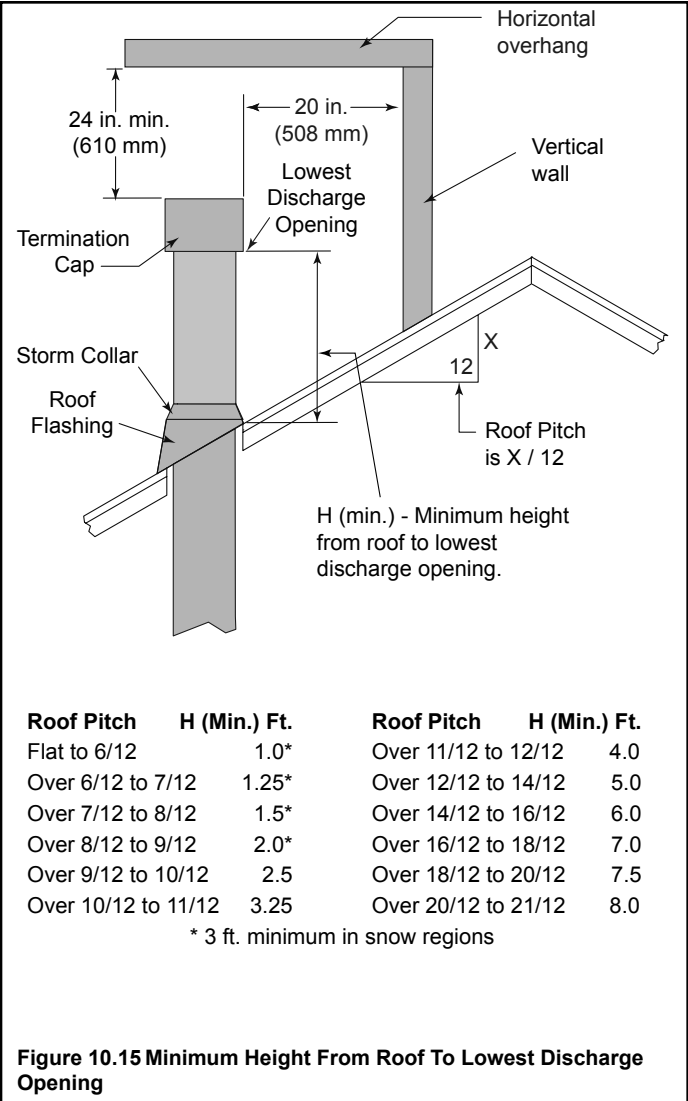


Figure 10.14

→ **H. Install Metal Roof Flashing**

Note: Skip this section if using the RF4-8.

- See minimum vent heights for various pitched roofs (Figure 10.15) to determine the length of pipe to extend through the roof.
- Slide the roof flashing over the pipe sections extending through the roof as shown in Figure 10.16.



NOTICE: Failure to properly caulk the roof flashing could cause water entry.

- Caulk the gap between the roof flashing and the outside diameter of the pipe.
- Caulk the perimeter of the flashing where it contacts the roof surface. See Figure 10.16.

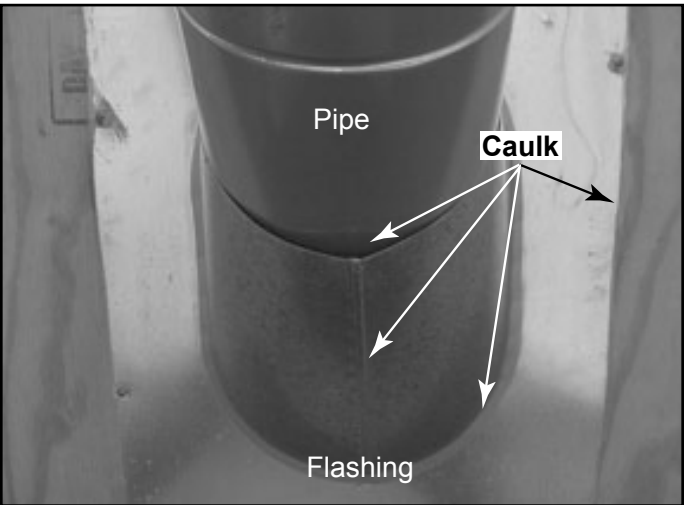


Figure 10.16

→ I. Install RF4-8

The RF4-8 may be used in place of the roof flashing and storm collar (Sections 10.F. and 10.I.)

Pipe must be supported within 12 in. (305 mm) of the roofline using plumbers strapping or an SLP-FS when using the RF4-8 Flashing. Refer to Sect. 8.C. Securing Vent Sections.

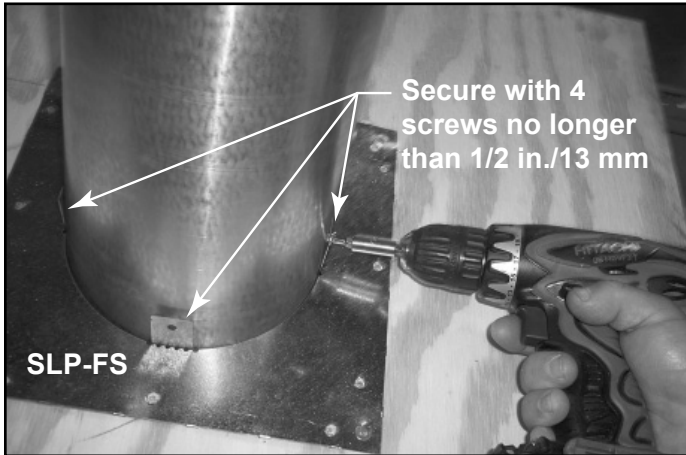


Figure 10.17 Secure Pipe with SLP-FS

- Trim the rubber boot (using scissors or a utility knife), cutting along the marked measurement lines. See Figure 10.18. Use the 150 mm line for SLP, 210 mm for DVP.
- Lubricate pipe or flue with water and slide the flashing down. It may be necessary to trim the top shingles around the base of the rubber boot to ensure a good fit.
- Draw around flashing, remove.
- Apply silicone sealant to roof inside the lines (Figure 10.19)
- Lubricate pipe or flue with water and slide flashing down. Seat firmly in sealant. Nail roof flashing to the roof.
- Apply silicone sealant on the top outside of the base plate on the sides and on top edge. See Figure 10.20. Install shingles, Apply sealant at the top edge of the rubber boot. See Figure 10.21.
- We recommend that you top coat with conventional acrylic house paint to improve the appearance of your galvanized base flashing.

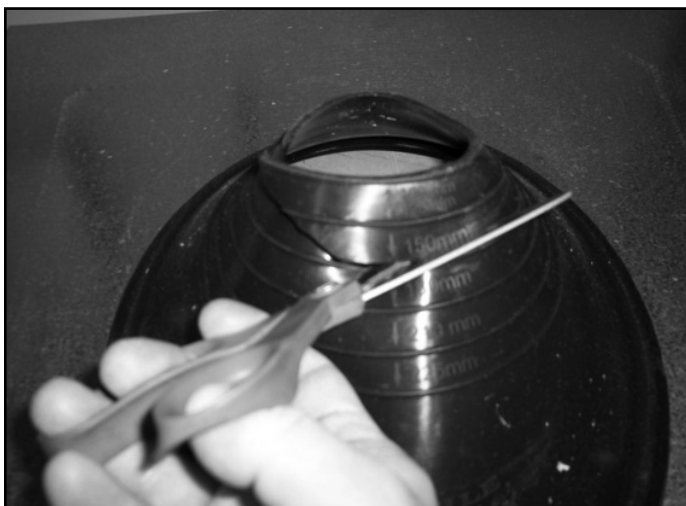


Figure 10.18 Trim Rubber Boot

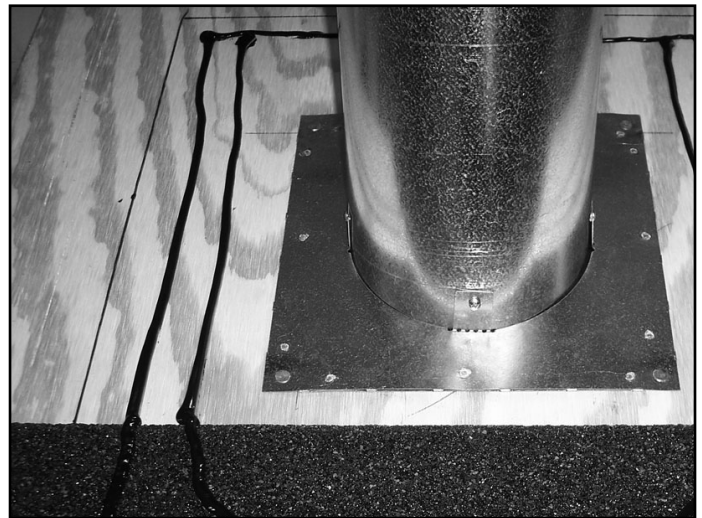


Figure 10.19 Apply Sealant



Figure 10.20 Slide Flashing Down, Secure & Apply Sealant



Figure 10.21 Installation Complete

J. Install Vertical Termination Cap

- Attach the vertical termination cap by sliding the inner collar of the cap into the inner flue of the pipe section while placing the outer collar of the cap over the outer flue of the pipe section.
- Secure the cap by driving three self-tapping screws (supplied) through the pilot holes in the outer collar of the cap into the outer flue of the pipe (see Figure 10.22).



Figure 10.22

K. Assemble and Install Storm Collar

CAUTION! Risk of Cuts/Abrasions/Flying Debris. Wear protective gloves and safety glasses during installation. Sheet metal edges are sharp.

- Connect both halves of the storm collar with two screws (see Figure 10.23).
- Wrap the storm collar around the exposed pipe section closest to the roof and align brackets. Insert a bolt (provided) through the brackets and tighten the nut to complete the storm collar assembly. Make sure the collar is tight against the pipe section.
- Slide the assembled storm collar down the pipe section until it rests on the roof flashing (see Figure 10.24).
- Caulk around the top of the storm collar (see Figure 10.22).

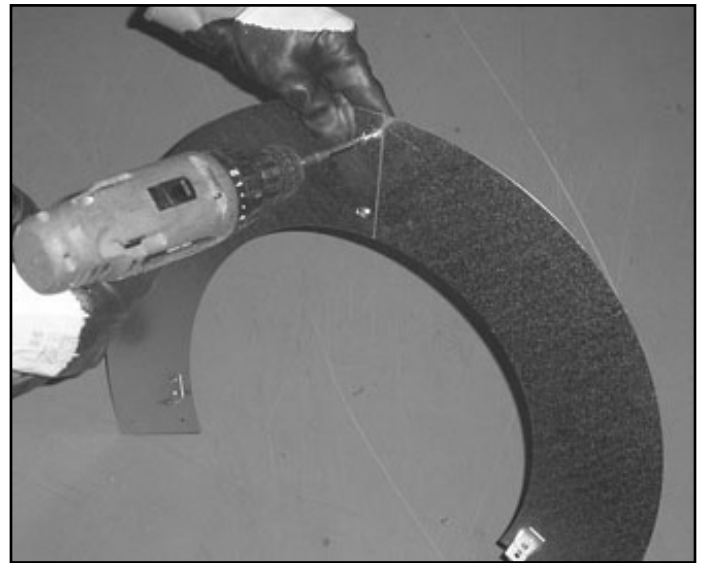


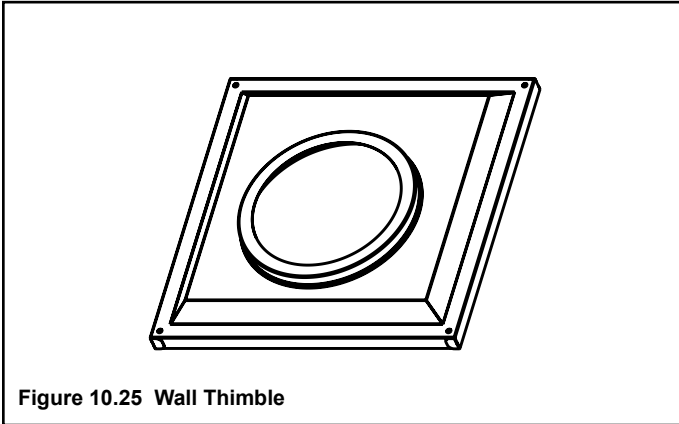
Figure 10.23 Assembling the Storm Collar



Figure 10.24 Assembling the Storm Collar Around the Pipe

→ L. Install Heat Shields and Horizontal Termination Cap

Note: For installations using black pipe, slide the decorative wall thimble over the last vent pipe before connecting the termination cap to the pipe. When this connection has been made, slide the wall thimble up to the interior wall surface and attach with screws provided. See figure 10.25



- Use an extended heat shield if the finished wall thickness is greater than 7-1/4 in. (184 mm).
- The extended heat shield may need to be cut to length maintaining sufficient length for a 1-1/2 in. (38 mm) overlap between heat shields.
- Attach the extended heat shield to either of the existing heat shields using the screws supplied with the extended heat shield.
- Rest the small leg on the extended heat shield on top of the pipe section to properly space it from the pipe section.

Important Notice: Heat shields may not be field constructed.

Heat Shield Requirements for Horizontal Termination

For all horizontally vented appliances, a heat shield **MUST** be placed one in. above the top of the vent between the wall shield firestop and the base of the termination cap.

There are two sections of the heat shield. One section is factory-attached to the wall shield firestop. The other section is factory-attached to the cap. See Figure 10.26.

If the wall thickness does not allow the required 1-1/2 in. (38 mm) heat shield overlap when installed, an extended heat shield must be used.

WARNING! Risk of Fire! To prevent overheating and fire, heat shields must extend through the entire wall thickness. Heat shields must overlap 1-1/2 in. (38 mm) minimum.

- **DO NOT** remove the heat shields attached to the wall shield firestop and the horizontal termination cap (shown in Figure 10.26).
- If the wall thickness is less than 4 in./102 mm (DVP) or 4-3/8 in./ 111 mm (SLP), the heat shields on the cap and wall shield firestop must be trimmed. A minimum 1-1/2 in. (38 mm) overlap **MUST** be maintained.

Install Horizontal Termination Cap

WARNING! Risk of Fire! The telescoping flue section of the termination cap **MUST** be used when connecting vent.

- 1-1/2 (38 mm) minimum overlap of flue telescoping section is required.

Failure to maintain overlap may cause overheating and fire.

- Vent termination must not be recessed in the wall. Siding may be brought to the edge of the cap base.
- Flash and seal as appropriate for siding material at outside edges of cap.

- When installing a horizontal termination cap, follow the cap location guidelines as prescribed by current **ANSI Z223.1** and **CAN/CGA-B149** installation codes and refer to Section 6 of this manual.

CAUTION! Risk of Burns! Local codes may require installation of a cap shield to prevent anything or anyone from touching the hot cap.

NOTICE: For certain exposures which require superior resistance to wind-driven rain penetration, a flashing kit and HRC caps are available. When penetrating a brick wall, a brick extension kit is available for framing the brick.

Note: When using termination caps with factory-supplied heat shield attached, no additional wall shield firestop is required on the exterior side of a combustible wall.

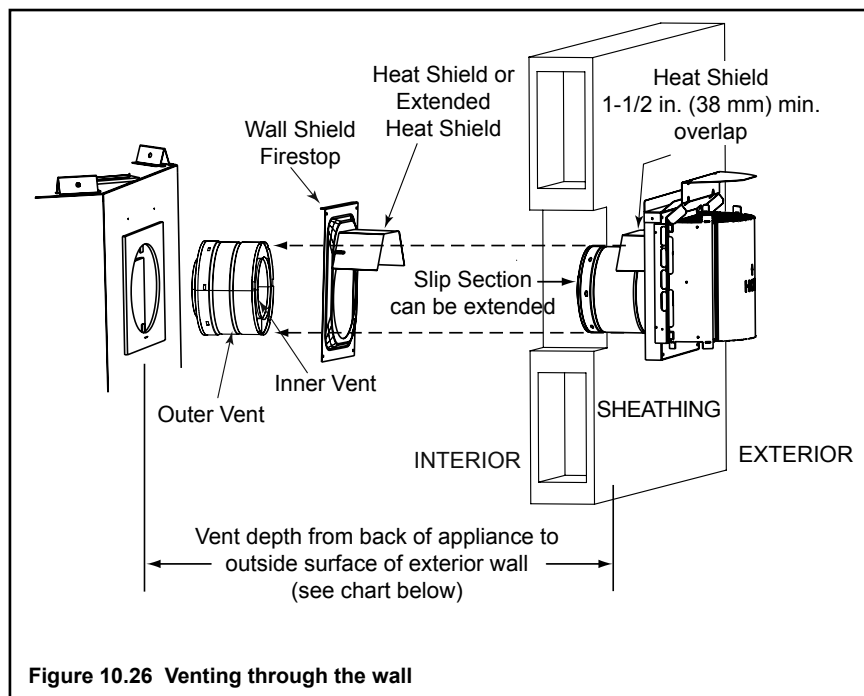


Figure 10.26 Venting through the wall

Cap Specification Chart (depth without using additional pipe sections)

→	NDV Series	DVP-TRAPK1 Top Vent <u>Depth</u>	DVP-TRAP1 Rear Vent <u>Depth</u>	DVP-TRAPK2 Top Vent <u>Depth</u>	DVP-TRAP2 Rear Vent <u>Depth</u>	SLP-TRAP1 Top Vent <u>Depth</u>
		4 1/2 to 6 3/8 in.	3 to 4 7/8 in.	6 7/8 to 10 7/8 in.	5 3/8 to 9 3/8 in.	2 to 3 7/8 in.
		DVP-HPC1 Top Vent <u>Depth</u>	DVP-HPC1 Rear Vent <u>Depth</u>	DVP-HPC2 Top Vent <u>Depth</u>	DVP-HPC2 Rear Vent <u>Depth</u>	SLP-TRAP2 Top Vent <u>Depth</u>
		4 1/2 to 6 5/8 in.	3 to 5 1/8 in.	6 5/8 to 10 3/4 in.	5 1/8 to 9 1/4 in.	4 3/8 to 8 3/8 in.

DVP-TRAP1 can adjust 1 1/2 in. (3 1/8 to 4 5/8)

DVP-TRAP2 can adjust 4 in. (5 3/8 to 9 3/8)

SLP-TRAP1 can adjust 1 5/8 in. (3 1/8 to 4 3/4)

SLP-TRAP2 can adjust 4 in. (5 1/4 to 9 1/4)

DVP-HPC1 can adjust 2 1/8 in. (4 1/4 to 6 3/8)

DVP-HPC2 can adjust 4 1/8 in. (6 3/8 to 10 1/2)

11 Gas Information

A. Fuel Conversion

- Make sure the appliance is compatible with available gas types.
- Conversions must be made by a qualified technician using Hearth & Home Technologies specified and approved parts.




B. Gas Pressure

- Optimum appliance performance requires proper input pressures.
- Gas line sizing requirements will be determined in ANSI Z221.3 National Fuel Gas Code in the USA and CAN/CGA B149 in Canada.
- Pressure requirements are:

Gas Pressure	Natural Gas	Propane
Minimum inlet pressure	5.0 in. w.c.	11.0 in. w.c.
Maximum inlet pressure	14.0 in. w.c.	14.0 in. w.c.
Manifold pressure	3.5 in. w.c.	10.0 in. w.c.

WARNING! Risk of Fire/Explosion! High pressure will damage valve. Low pressure may cause explosion.

- Verify inlet pressures. Verify minimum pressures when other household gas appliances are operating.
- Install regulator upstream of valve if line pressure is greater than 1/2 psig.

 WARNING	
	Fire Risk. Explosion Hazard. High pressure will damage valve.
	<ul style="list-style-type: none">• Disconnect gas supply piping BEFORE pressure testing gas line at test pressures above 1/2 psig.• Close the manual shutoff valve BEFORE pressure testing gas line at test pressures equal to or less than 1/2 psig.

Note: Have the gas supply line installed in accordance with local codes, if any. If not, follow ANSI Z221.1. Installation should be done by a qualified installer approved and/or licensed as required by the locality. (In the Commonwealth of Massachusetts installation must be performed by a licensed plumber or gas fitter).

Note: A listed (and Commonwealth of Massachusetts approved) 1/2 inch (13 mm) T-handle manual shut-off valve and flexible gas connector are connected to the 1/2 inch (13 mm) control valve inlet.

- **If substituting for these components, please consult local codes for compliance.**

C. Gas Connection

- Refer to Reference Section 16 for location of gas line access in appliance.
- Gas line may be run through knockout(s) provided.
- The gap between supply piping and gas access hole may be caulked with high temperature caulk or stuffed with non-combustible, unfaced insulation to prevent cold air infiltration.
- Ensure that gas line does not come in contact with outer wrap of the appliance. Follow local codes.
- Pipe incoming gas line into valve compartment.
- Connect incoming gas line to the 1/2 in. (13 mm) connection on manual shutoff valve.

WARNING! Risk of Fire/Explosion! Support control when attaching pipe to prevent bending gas line.

- A small amount of air will be in the gas supply lines.

WARNING! Risk of Fire/Explosion! Gas build-up during line purge could ignite.

- Purge should be performed by a qualified technician.
- Ensure adequate ventilation.
- Ensure there are no ignition sources such as sparks or open flames.

Light the appliance. It will take a short time for air to purge from lines. When purging is complete the appliance will light and operate normally.

WARNING! Risk of Fire, Explosion or Asphyxiation!

Check all fittings and connections with a non-corrosive commercially available leak-check solution. **DO NOT** use open flame. Fittings and connections could have loosened during shipping and handling.

WARNING! Risk of Fire! DO NOT change valve settings. This valve has been preset at the factory.

D. High Altitude Installations

NOTICE: If the heating value of the gas has been reduced, these rules do not apply. Check with your local gas utility or authorities having jurisdiction.

When installing above 2000 feet elevation:

- In the USA: Reduce burner orifice 4% for each 1000 feet above 2000 feet.
- In the CANADA: Reduce burner orifice 10% for elevations between 2000 feet and 4500 feet. Above 4500 feet, consult local gas utility.

12 Electrical Information

A. Wiring Requirements

NOTICE: This appliance must be electrically wired and grounded in accordance with local codes or, in the absence of local codes, with **National Electric Code ANSI/NFPA 70-latest edition or the Canadian Electric Code CSA C22.1.**

- Wire the appliance junction box to 110-120 VAC. This is required for use of optional accessories (standing pilot ignition) or proper operation of the appliance (Intellifire ignition).
- Low voltage and 110 VAC voltage cannot be shared within the same wall box.

WARNING! Risk of Shock or Explosion! DO NOT wire 110V to the valve or to the appliance wall switch. Incorrect wiring will damage controls.

- Determine if the appliance uses an Intellifire ignition system or standing pilot ignition system.
- Open the control access panel.
- A red or black ignitor button (as shown in Figure 12.1) indicates this appliance is standing pilot ignition.

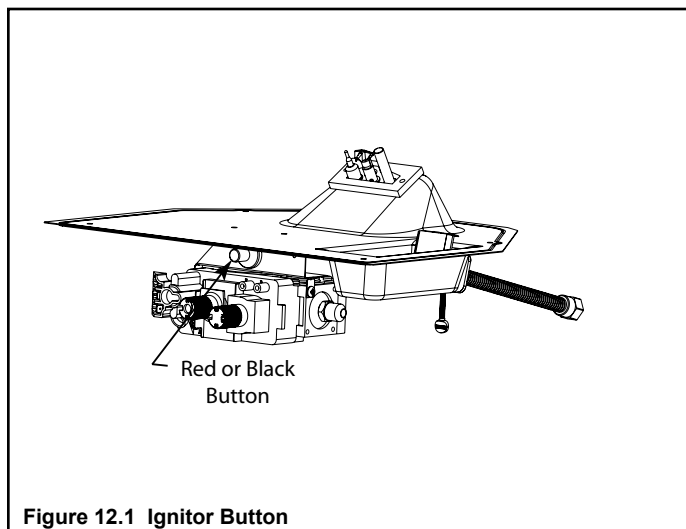


Figure 12.1 Ignitor Button

B. Standing Pilot Ignition System Wiring

- The standing pilot ignition system wiring does not require a 110 VAC supply to operate.
- A 110 VAC junction box **MUST** be installed for use with a fan or remote control. See Figure 12.3 for junction box wiring. Keep wire lengths short as possible.

NOTICE: DO NOT wire 110 VAC to the millivolt valve! This will damage the valve.

- If using a thermostat use one compatible with a millivolt gas valve system:
 - Install the thermostat in the location as indicated in the thermostat instructions to ensure proper operation of appliance.
 - Use low resistance thermostat wire for wiring from ignition system to the wall switch and thermostat.
 - Keep wire lengths short as possible.

C. Intellifire Ignition System Wiring

- Wire the appliance junction box to 110 VAC for proper operation of the appliance.

WARNING! Risk of Shock or Explosion! DO NOT wire IPI controlled appliance junction box to a switched circuit. Incorrect wiring will override IPI safety lockout.

- Refer to Figure 12.2, Intellifire Pilot Ignition (IPI) Wiring Diagram.
- This appliance is equipped with an Intellifire control valve which operates on a 3 volt system.
- Plug the 3-volt AC transformer into the appliance junction box to supply power to the unit OR install two D cell batteries (not included) into the battery pack before use.

NOTICE: Batteries should not be placed in the battery pack while using the transformer. Remove batteries before using the transformer, and unplug the transformer before installing the batteries. Battery polarity must be correct or module damage will occur.

D. Optional Accessories Requirements

- This appliance may be used with a wall switch, wall mounted thermostat and/or a remote control.

Wiring for optional Hearth & Home Technologies approved accessories should be done now to avoid reconstruction. Follow instructions that come with those accessories.

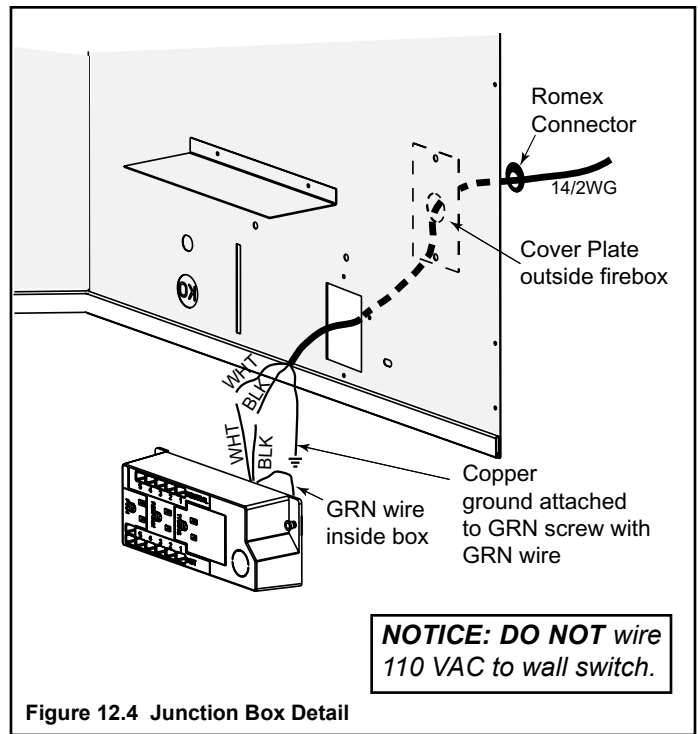
F. Junction Box Installation

If the box is being wired from the **OUTSIDE** of the appliance:

- Remove the cover plate located on the outer shell - right side (see Figure 12.4).
- Install the supplied Romex™ connector in the cover plate.

If the box is being wired from the **INSIDE** of the appliance:

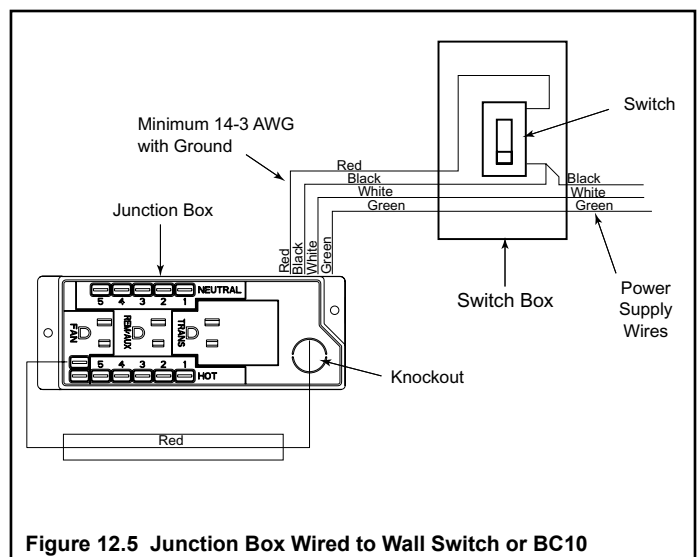
- Remove the screw attaching the junction box/receptacle to the outer shell, rotate the junction box inward to disengage it from the outer shell (see Figure 12.4).
- Pull the electrical wires from outside the appliance through this opening into the valve compartment. See Figure 12.4.



G. Wall Switch Installation for Fan (Optional)

If the box is being wired to a wall mounted switch for use with a fan (See Figure 12.5):

- The power supply for the appliance must be brought into a switch box.
- The power can then be supplied from the switch box to the appliance using a minimum of 14-3 with ground wire.
- At the switch box connect the black (hot) wire and red (switch leg) wire to the wall switch as shown.
- At the appliance connect the black (hot), white (neutral) and green (ground) wires to the junction box as shown.
- Add a 1/4 in. insulated female connector to the red (switch leg) wire, route it through the knockout in the face of the junction box, and connect to the top fan switch connector (1/4 in. male) as shown.



13 Finishing

A. Mantel and Wall Projections

WARNING! Risk of Fire! Comply with all minimum clearances to combustibles as specified. Framing closer than the minimums listed must be constructed entirely of noncombustible materials (i.e., steel studs, concrete board, etc.) Failure to comply could cause fire.

Mantels

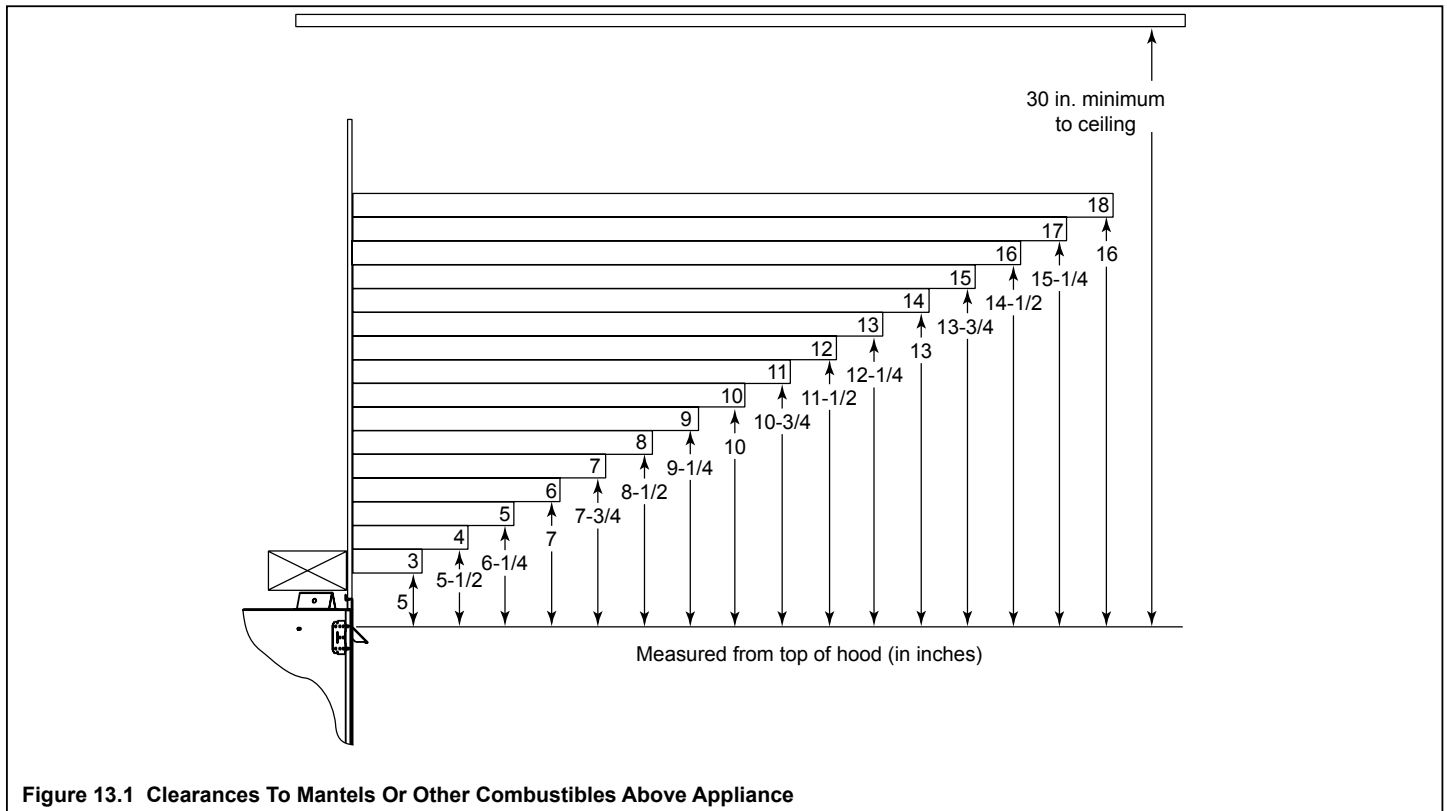


Figure 13.1 Clearances To Mantels Or Other Combustibles Above Appliance

Mantel Legs or Wall Projections

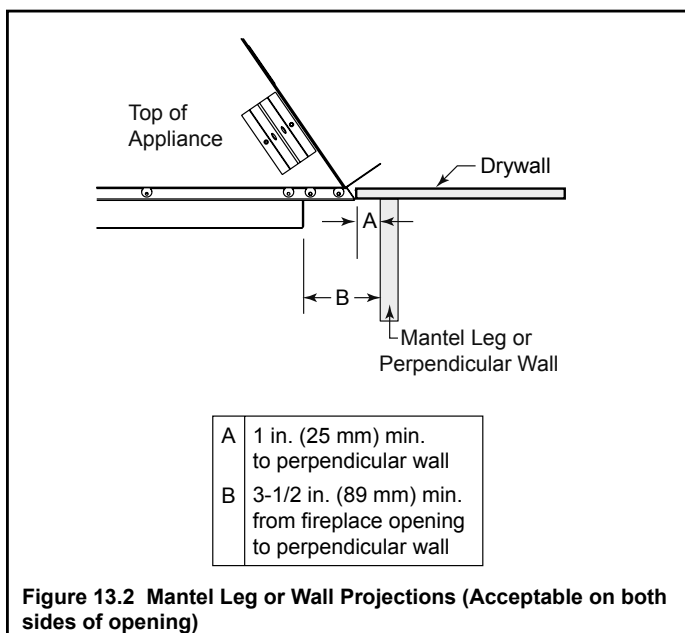
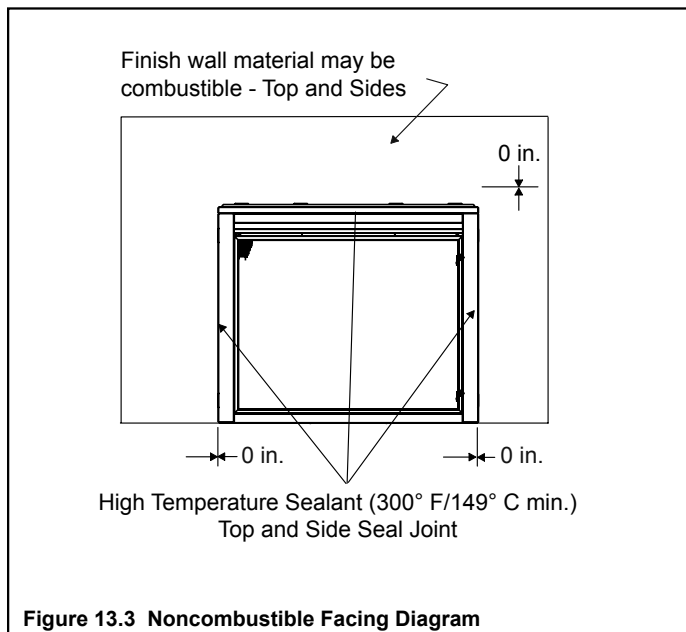


Figure 13.2 Mantel Leg or Wall Projections (Acceptable on both sides of opening)

B. Facing Material

- Cover the metal front faces with non-combustible materials only.
- Facing and/or finishing materials must not interfere with air flow through louvers, operation of louvers or doors, or access for service.
- Facing and/or finishing materials must never overhang into the glass opening.
- Observe all clearances when applying combustible materials.
- Seal joints between the finished wall and appliance top and sides using a 300 °F minimum sealant. Refer to Figure 13.3.

WARNING! Risk of Fire! DO NOT apply combustible materials beyond the minimum clearances. Comply with all minimum clearances to combustibles as specified in this manual. Overlapping materials could ignite and will interfere with proper operation of doors and louvers.



14 Appliance Setup

A. Remove the Packaging

Remove the shrink film, corrugated top cap, bottom cap and column protectors from the appliance. The appliance should look as shown in Figure 14.1.

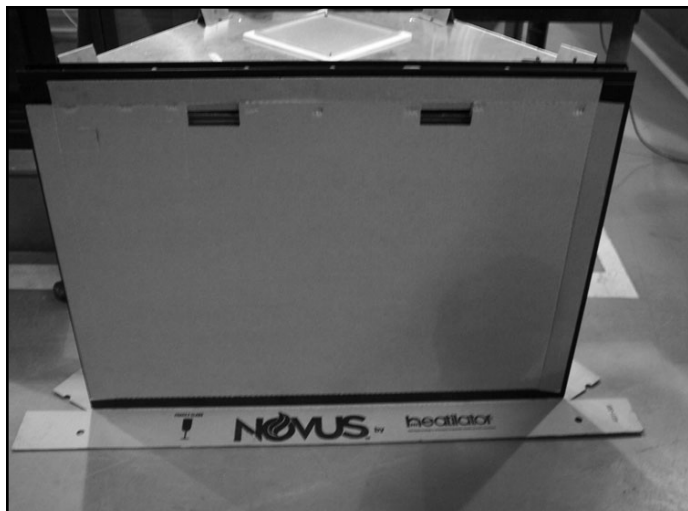


Figure 14.1 Appliance Unwrapped



Figure 14.2 Open Access Flap

B. Open Front Screen Assembly

- Open the flap in the upper left hand corner of the screen protector (Figure 14.2)
- Pick up on the screen to release the screen from the shoulder screws in the fireplace columns. See Figure 14.3.
- Rotate the screen open as shown in Figure 14.4.



Figure 14.3 Lift up on Screen

C. Remove the Shipping Materials

Remove the shipping materials from inside or underneath the firebox.

D. Remove Fixed Glass Assembly

See Section 14.K.

E. Clean the Appliance

Clean/vacuum any sawdust that may have accumulated inside the firebox or underneath in the control cavity.

F. Accessories

Install approved accessories per instructions included with the accessories. Refer to Section 16.

WARNING! Rick of Fire and Electric Shock! Use ONLY Hearth & Home Technologies-approved optional accessories with this appliance. Using non-listed accessories could result in a safety hazard and will void the warranty.



Figure 14.4 Rotate Screen Open

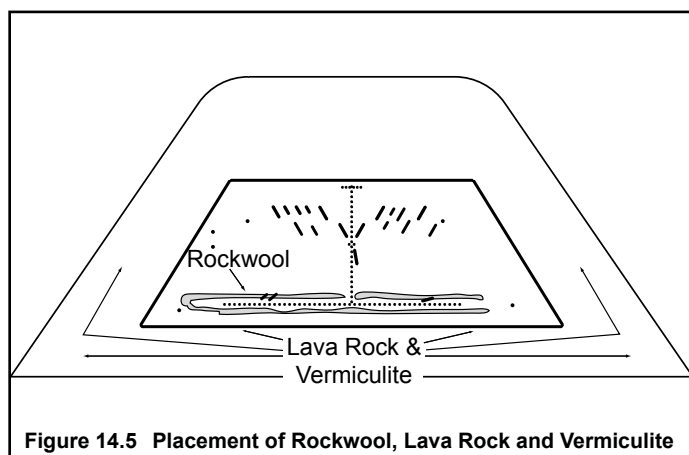
G. Place the Rockwool

WARNING! Risk of Explosion! Follow rockwool placement instructions. DO NOT place rockwool directly over burner ports. Replace rockwool material annually. Improperly placed rockwool interferes with proper burner operation.

- Rockwool is shipped with this gas appliance.
- Place a small amount of 1/2 in. diameter pieces (dime-size) rockwool on the burner pan so that the rockwool touches, but does not cover, the holes in the burner pan (refer to Figure 14.5). This will provide the “glowing embers” look.
- It is not necessary to use the entire bag. Save the remaining rockwool for future use.

H. Place the Lava Rock

See Figure 14.5.



I. Place the Vermiculite

Sprinkle on top of lava rock.

J. Remove Screen Protector

- Tear the corrugated as shown in Figure 14.6. The corrugated must be separated along the entire top edge of the protector.
- Slide the screen protector off the screen as shown in Figure 14.7.



K. Unpackage the Hood & Floor Cover

Remove the hood, floor cover and protective cardboard from the back side of the screen as shown in Figure 14.8.



Figure 14.8 Removing Parts Package

L. Install Hood

- Locate the four screws just inside the upper section of the appliance.
- Slide the hood into position under the screw heads.
- Tighten the four screws. See Figure 14.9.



Figure 14.9 Installing Hood

M. Install Floor Cover

Install the floor cover as shown in Figure 14.10.



Figure 14.10 Installing Floor Cover

Note: The floor cover in the bottom front of the fireplace may be covering the UL labels. It is loose and can be removed/replaced.

N. Fixed Glass Assembly

Removing Fixed Glass Assembly

WARNING! Risk of Asphyxiation! Handle fixed glass assembly with care. Inspect the gasket to ensure it is undamaged and inspect the glass for cracks, chips or scratches.

DO NOT:

- Strike, slam or scratch glass
- Operate fireplace with glass removed, cracked, broken or scratched.

Replace fixed glass assembly as a complete assembly.

- Remove screen.
- Pull the four (30/33/36 in. appliances) or seven (42 in. appliance) glass assembly latches out of the groove on the glass frame. Refer to Figure 14.11.
- Remove the glass assembly from the appliance.

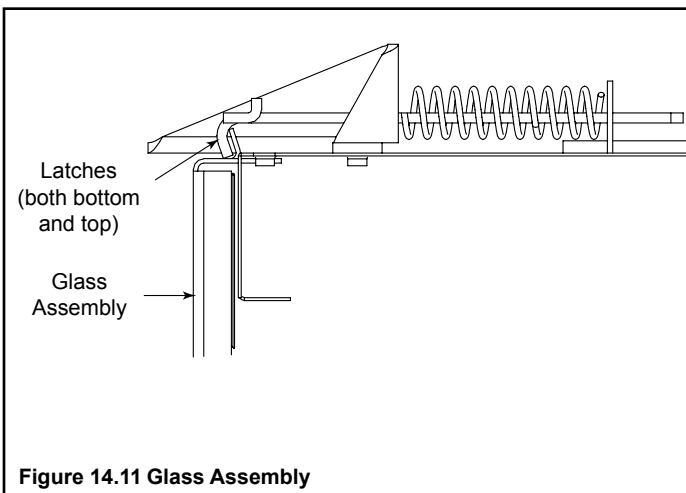


Figure 14.11 Glass Assembly

Replacing Fixed Glass Assembly

- Set the glass panel on the lower two or four glass assembly latches, ensuring the glass panel is centered in the opening.
- Replace screen.

O. Close the Screen Assembly

Rotate the screen closed. See Figures 14.12 and 14.13.



Figure 14.12 Closing Screen



Figure 14.13 Closing Screen

P. Air Shutter Setting

Air shutter setting should be adjusted by a qualified installer at the time of installation.

- The air shutter is set at the factory for minimum vertical vent run.
- Adjust air shutter for longer vertical runs. See Figure 14.14.
- Turn the thumbscrew to open and close.

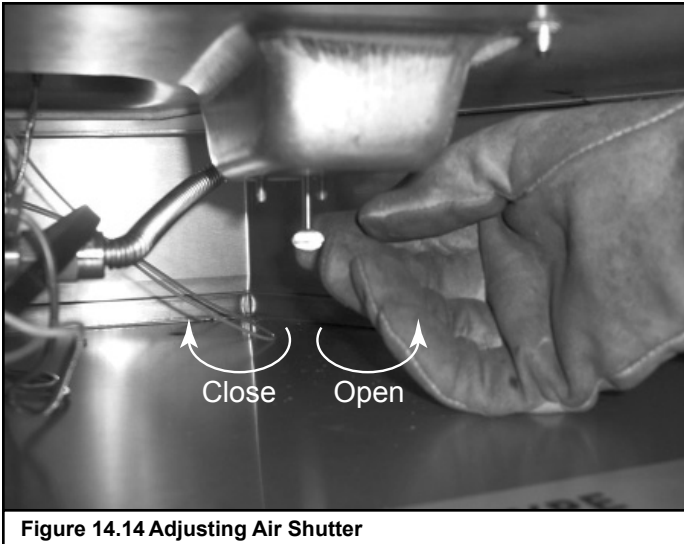


Figure 14.14 Adjusting Air Shutter

15 Troubleshooting

With proper installation, operation, and maintenance your gas appliance will provide years of trouble-free service. If you do experience a problem, this troubleshooting guide will assist a qualified technician in the diagnosis of a problem and the corrective action to be taken. This troubleshooting guide can only be used by a qualified technician. Contact your dealer to arrange a service call by a qualified technician.

A. Standing Pilot Ignition System

Symptom	Possible Causes	Corrective Action
1. After repeated triggering of the red or black piezo ignitor button, the spark ignitor will not light the pilot. Check for spark.	A. No gas or low gas pressure.	Check the remote shut-off valves from the appliance. Usually, there is a valve near the gas main. There can be more than one valve between the appliance and the main.
	B. No lp in tank.	Check the LP (propane) tank. You may be out of fuel.
	C. Ignitor.	Check the spark at the electrode and pilot. If no spark and electrode wire is properly connected, replace the ignitor. Verify that there is no short in electrode wire.
	D. Pilot or misaligned electrode (spark at electrode).	Using match, light the pilot. If the pilot lights, turn off the pilot and trigger the piezo ignitor button again. If the pilot lights, an improper gas/air mixture caused the bad lighting and a longer purge period is recommended. If the pilot will not light, ensure the gap at the electrode and pilot is one-eighth inch to have a strong spark. If the gap is OK, replace the pilot.
2. The pilot will not stay lit after carefully following the lighting instructions.	A. Thermocouple.	Check that the pilot flame impinges on the thermocouple. Adjust the pilot for proper flame impingement.
		Ensure that the thermocouple connection at the gas valve is fully inserted and tight (hand tighten plus 1/4 turn).
		Verify proper voltage output from the thermocouple to the valve. Place one millivolt meter lead wire on the thermocouple copper lead. Place the second lead wire on the solder button on the back of the valve (blue wire). Start the pilot and hold the valve knob in. The millivolt reading should read 8-16 millivolts. If millivolt reading is less than 8 millivolts, replace thermocouple.
3. The pilot is burning, there is no burner flame, the valve knob is in the ON position, and the ON/OFF switch is in the ON position.	B. Improper gas inlet pressure.	Natural gas should be 5-14 in. w.c. LP should be 10-14 in. w.c. Verify pressure with manometer.
	C. Control valve.	If the thermocouple is producing 8-16 millivolts, replace control valve.
	A. On/off switch or wires defective.	Check the ON/OFF switch and wires for proper connections. Place the jumper wires across the terminals at the switch. If the burner comes on, replace the defective switch. If the switch is OK, place the jumper wires across the switch wires at the gas valve. If the burner comes on, the wires are faulty or connections are bad.
	B. Thermopile may not be generating sufficient millivoltage.	Check that the pilot flame impinges thermopile properly.
		Be sure the wire connections from the thermopile at the gas valve terminals are tight and that the thermopile is fully inserted into the pilot bracket.
		Check the thermopile with a millivolt meter. Take the reading at TH-TP&TP terminals of the gas valve. The meter should read 350 millivolts minimum, while holding the valve knob depressed in the pilot position, with the pilot lit, and the ON/OFF switch in the OFF position. Replace the thermopile if the reading is below the specified minimum.
		With the pilot in the ON position, disconnect the thermopile leads from the valve. Take a reading at the thermopile leads. The reading should be 350 millivolts minimum. Replace the thermopile if the reading is below the minimum.

Troubleshooting (continued)

Symptom	Possible Cause	Corrective Action
3. (Continued)	C. Failed valve.	Turn the valve knob to the ON position. Place the ON/OFF switch in the ON position. Check the millivolt meter at the thermopile terminals. The millivolt meter should read greater than 125mV. If the reading is acceptable, and if the burner does not come on, replace the gas valve.
	D. Plugged burner orifice.	Check the burner orifice for stoppage. Remove stoppage.
	E. Wall switch or wires.	Follow the corrective action in Symptom and Possible Cause 1.a above. Check the switch and wiring.
4. Frequent pilot outage problem.	A. Pilot flame may be too high or too low, or blowing out (high pressure), causing pilot safety to drop out.	Clean thermocouple and adjust the pilot flame for proper flame impingement. Follow lighting instructions carefully.
5. The pilot and main burner extinguish while in operation.	A. No LP in tank.	Check the LP (propane) tank. Refill the fuel tank.
	B. Improper gas inlet pressure.	Verify with manometer. NG should read 5-14 inches w.c. LP should read 10-14 inches w.c.
	C. Inner vent pipe leaking exhaust gases back into the system.	Check venting system for damage. Replace/repair improperly assembled pipe sections.
	D. Glass installed improperly.	Check to ensure glass is installed properly. Replace glass panel assembly.
	E. Failed thermopile or thermocouple.	Replace pilot if necessary.
	F. Improper vent cap installation.	Check for proper installation and freedom from debris or blockage.
6. Glass soots.	A. Flame impingement.	Adjust the log set so that the flame does not excessively impinge on it. Refer to log instructions.
	B. Improper air shutter setting.	Refer to manual for shutter set points. Ensure that set point is correct for appliance/gas type. If unit has adjustable shutter, it may be necessary to increase shutter opening.
	C. Debris around air shutter.	Inspect the opening at the base of the burner. NO MATERIAL SHOULD BE PLACED IN THIS OPENING.
7. Flame burns blue and lifts off burner.	A. Insufficient oxygen being supplied.	Ensure that the vent cap is installed properly and free of debris. Ensure that the vent system joints are tight and have no leaks.
		Ensure that no debris has been placed at the base of, or in the area of the air holes in the center of the base pan beneath the burner.
		Ensure that the glass is tightened properly on the unit, particularly on top corners.

B. Intellifire Ignition System

Symptom	Possible Cause	Corrective Action
1. Pilot won't light. The ignitor/module makes noise, but no spark.	A. Incorrect wiring.	Verify "S" wire (white) for sensor and "I" wire (orange) for ignitor are connected to correct terminals on module and pilot assembly.
	B. Loose connections or electrical shorts in the wiring.	Verify no loose connections or electrical shorts in wiring from module to pilot assembly. Verify connections underneath pilot assembly are tight; also verify connections are not grounding out to metal chassis, pilot burner, pilot enclosure, mesh screen if present, or any other metal object.
	C. Ignitor gap is too large.	Verify gap of ignitor to right side of pilot hood. The gap should be approximately .17 inch or 1/8 in. (3 mm).
	D. Module.	Turn ON/OFF rocker switch or wall switch to OFF position. Remove ignitor wire "I" from module. Place a grounded wire about 3/16 in. (5 mm) away from "I" terminal on module. Place ON/OFF rocker switch or wall switch in ON position. If there is no spark at "I" terminal module must be replaced. If there is a spark at "I" terminal, module is fine. Inspect pilot assembly for shorted sparker wire or cracked insulator around electrode. Replace pilot if necessary.
2. Pilot won't light, there is no noise or spark.	A. No power or transformer installed incorrectly.	Verify that transformer is installed and plugged into module. Check voltage of transformer under load at spade connection on module with ON/OFF switch in ON position. Acceptable readings of a good transformer are between 3.2 and 2.8 volts AC.
	B. A shorted or loose connection in wiring configuration or wiring harness.	Remove and reinstall the wiring harness that plugs into module. Verify there is a tight fit. Verify pilot assembly wiring to module. Remove and verify continuity of each wire in wiring harness. Replace any damaged components.
	C. Improper wall switch wiring.	Verify that 110/VAC power is "ON" to junction box.
	D. Module not grounded.	Verify black ground wire from module wire harness is grounded to metal chassis of appliance.
	E. Module.	Turn ON/OFF rocker switch or wall switch to OFF position. Remove ignitor wire "I" from module. Place ON/OFF rocker switch or wall switch in ON position. If there is no spark at "I" terminal module must be replaced. If there is a spark at "I" terminal, module is fine. Inspect pilot assembly for shorted sparker wire or cracked insulator around electrode.
3. Pilot sparks, but Pilot will not light.	A. Gas supply.	Verify that incoming gas line ball valve is "open". Verify that inlet pressure reading is within acceptable limits, inlet pressure must not exceed 14 in. W.C.
	B. Ignitor gap is incorrect.	Verify that spark gap from ignitor to pilot hood is .17 in. or 1/8 in (3 mm).
	C. Module is not grounded.	Verify module is securely grounded to metal chassis of appliance.
	D. Module voltage output / Valve/ Pilot solenoid ohms readings.	Verify battery voltage is at least 2.7 volts. Replace batteries if voltage is below 2.7.

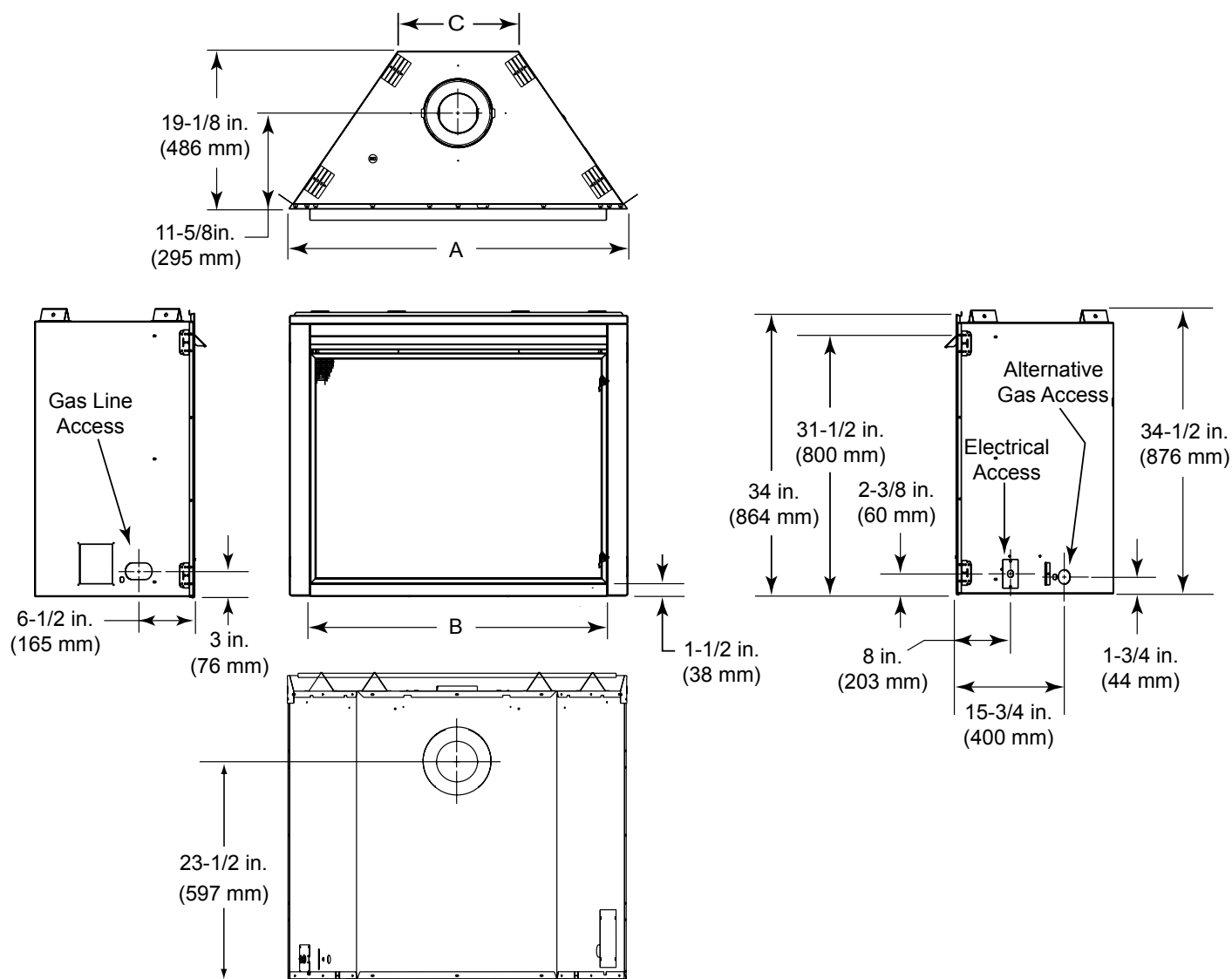
Intellifire Ignition System - (continued)

Symptom	Possible Cause	Corrective Action
4. Pilot lights but continues to spark, and main burner will not ignite. (If the pilot continues to spark after the pilot flame has been lit, flame rectification has not occurred.)	A. A shorted or loose connection in flame sensing rod.	Verify all connections to wiring diagram in manual. Verify connections underneath pilot assembly are tight. Verify connections are not grounding out to metal chassis, pilot burner, pilot enclosure or screen if present, or any other metal object.
	B. Poor flame rectification or contaminated flame sensing rod.	With fixed glass assembly in place, verify that flame is engulfing flame sensing rod on left side of pilot hood. Flame sensing rod should glow shortly after ignition. Verify correct pilot orifice is installed and gas inlet is set to pressure specifications.
	C. Module is not grounded.	Verify module is securely grounded to metal chassis of appliance. Verify that wire harness is firmly connected to the module.
	D. Damaged pilot assembly or contaminated flame sensing rod.	Verify that ceramic insulator around the flame sensing rod is not cracked, damaged, or loose. Verify connection from flame sensing rod to white sensor wire. Clean flame sensing rod with emery cloth to remove any contaminants that may have accumulated on flame sensing rod. Verify continuity with a multimeter with ohms set at lowest range. Replace pilot if any damage is detected.
	E. Module.	Turn ON/OFF rocker switch or wall switch to OFF position. Remove ignitor wire "I" from module. Place ON/OFF rocker switch or wall switch in ON position. If there is no spark at "I" terminal module must be replaced. If there is a spark at "I" terminal, module is fine.

16 Reference Materials

A. Appliance Dimension Diagram

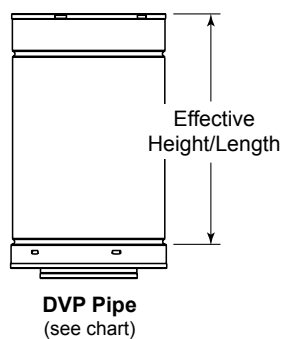
Dimensions are actual appliance dimensions. Use for reference only. For framing dimensions and clearances refer to Section 3.



Model		A	B	C
NDV3630	in.	35	30	8 5/8
	mm	889	762	219
NDV3933	in.	38	33	11 5/8
	mm	965	838	295
NDV4236	in.	41	36	14 5/8
	mm	1041	916	371
NDV4842	in.	47	42	20 5/8
	mm	1194	1067	524

Figure 16.1 Appliance Dimensions

B. Vent Components Diagrams



Effective Height/Length		
Pipe	inches	mm
DVP4	4	102
DVP6	6	152
DVP12	12	305
DVP24	24	610
DVP36	36	914
DVP48	48	1219
DVP6A	3 - 6	76 - 152
DVP12A	3 - 12	76 - 305
DVP12MI	3 - 12	76 - 305
DVP24MI	3 - 24	76 - 610

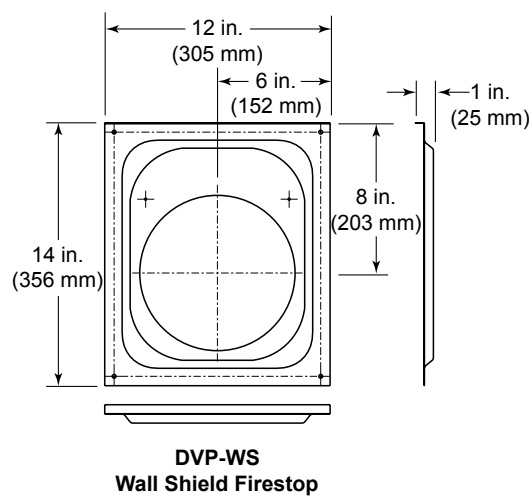
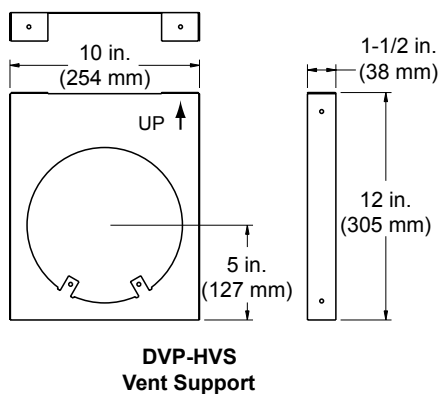
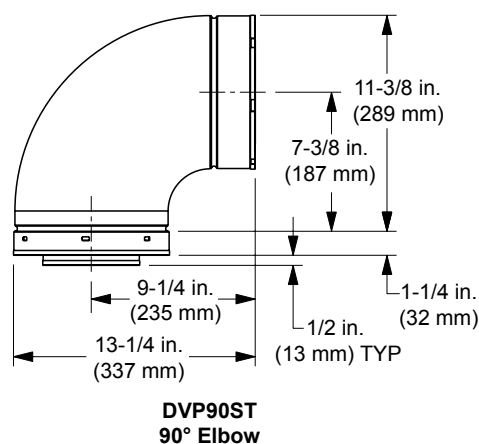
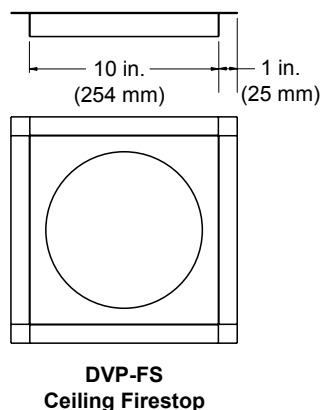
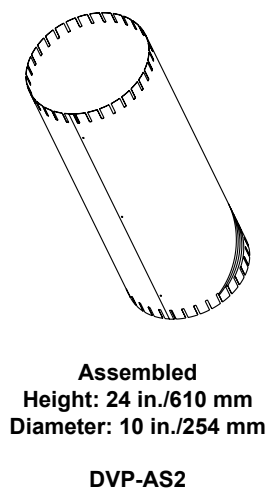
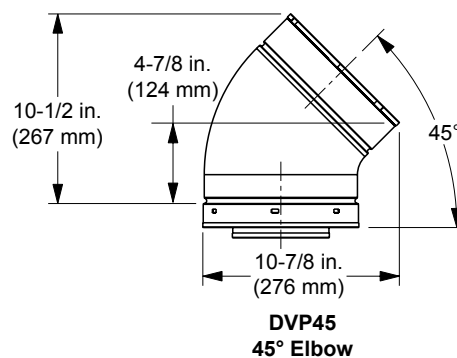
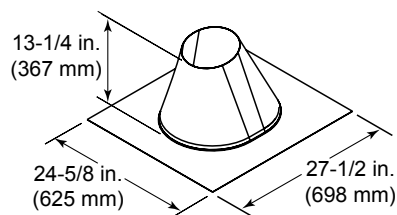
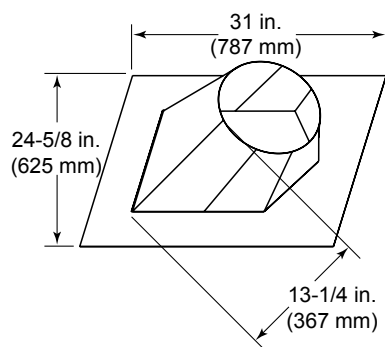


Figure 16.2 DVP Vent Components

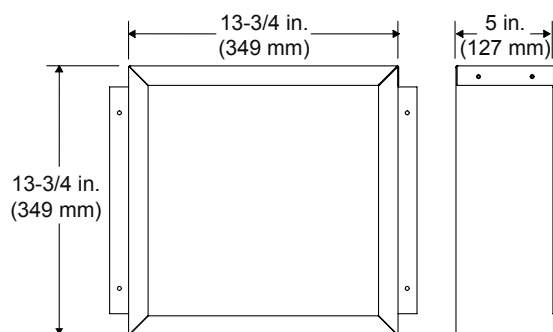
B. Vent Components Diagrams (*continued*)



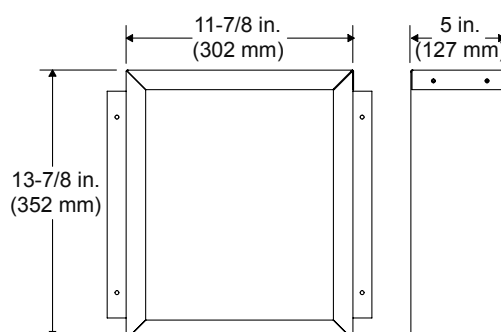
RF6M
Roof Flashing Multi-pak



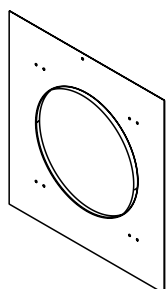
RF12M
Roof Flashing Multi-pak



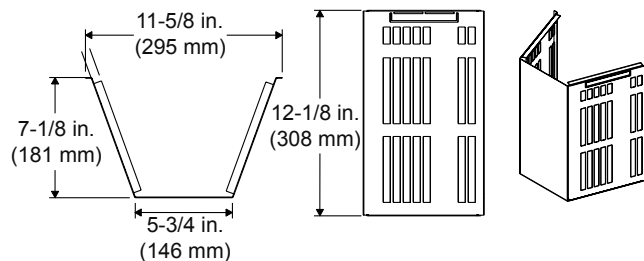
BEK
Trap Cap Brick Extension



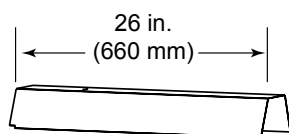
DVP-BE2
DVP-HPC Cap Brick Extension



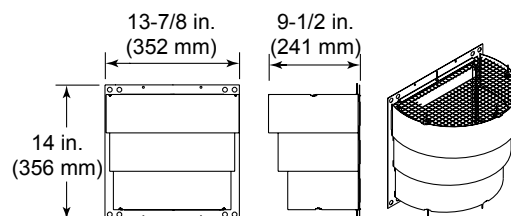
DVP-TRAPFL
Flashing



COOL-ADD
Cap Shield



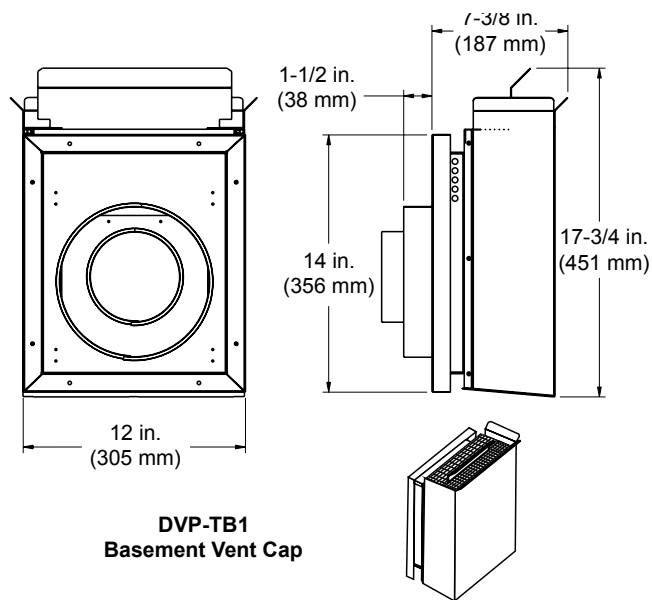
DVP-HSM-B
Extended Heat Shield



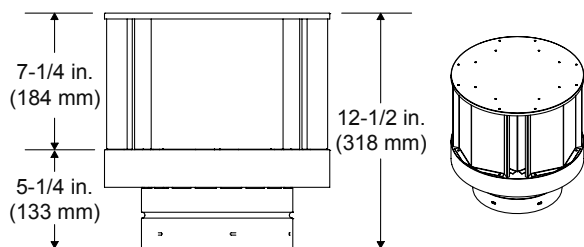
DRC-RADIUS
Cap Shield

Figure 16.3 DVP Vent Components

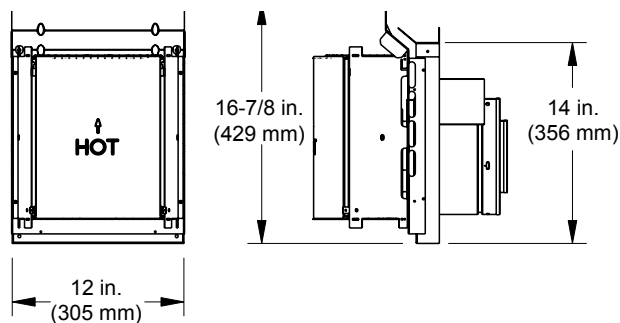
B. Vent Components Diagrams (*continued*)



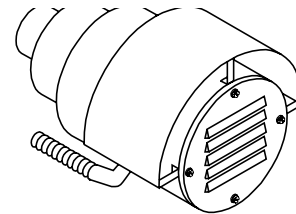
DVP-TB1
Basement Vent Cap



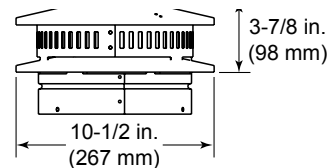
DVP-TVHW
Vertical Termination Cap (High wind)



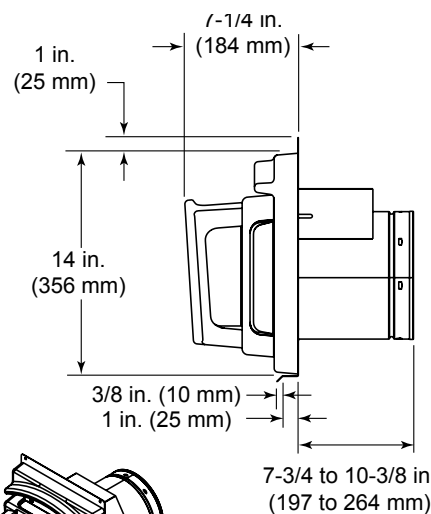
DVP-HPC
High Performance Cap



PVK-80
(For use with IPI and DSI appliances only.)



DVP-TV
Vertical Termination Cap

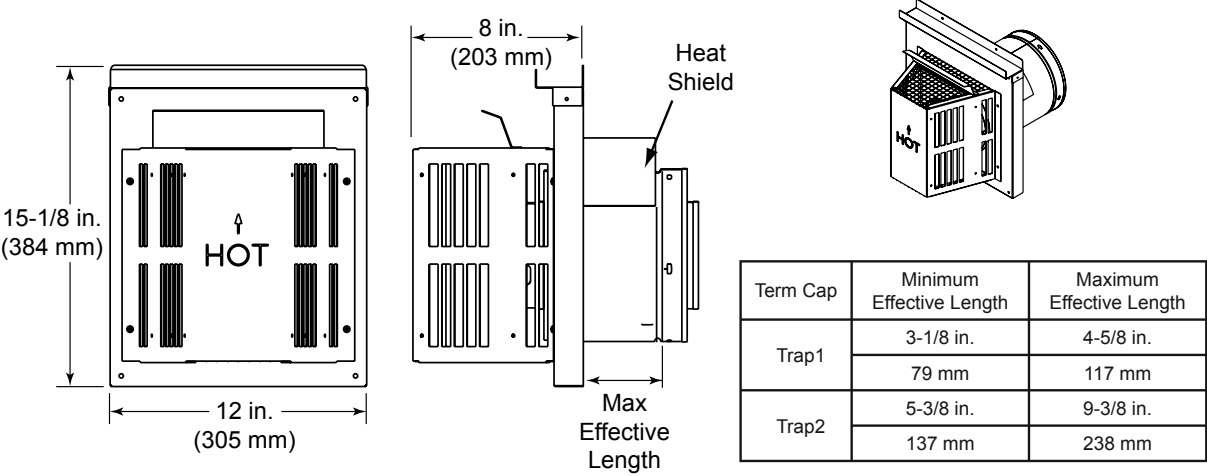


DVP-FBHT
Fire Brick Termination Cap

Figure 16.4 DVP Vent Components

B. Vent Components Diagrams (continued)

Note: Heat shields MUST overlap by a minimum of 1-1/2 in. (38 mm). **The heat shield is designed to be used on a wall 4 in. to 7-1/4 in. (102 mm to 184 mm) thick.** If wall thickness is less than 4 in. (102 mm) the existing heat shields must be field trimmed. If wall thickness is greater than 7-1/4 in. (184 mm) a DVP-HSM-B will be required.



DVP-TRAP
Horizontal Termination Cap

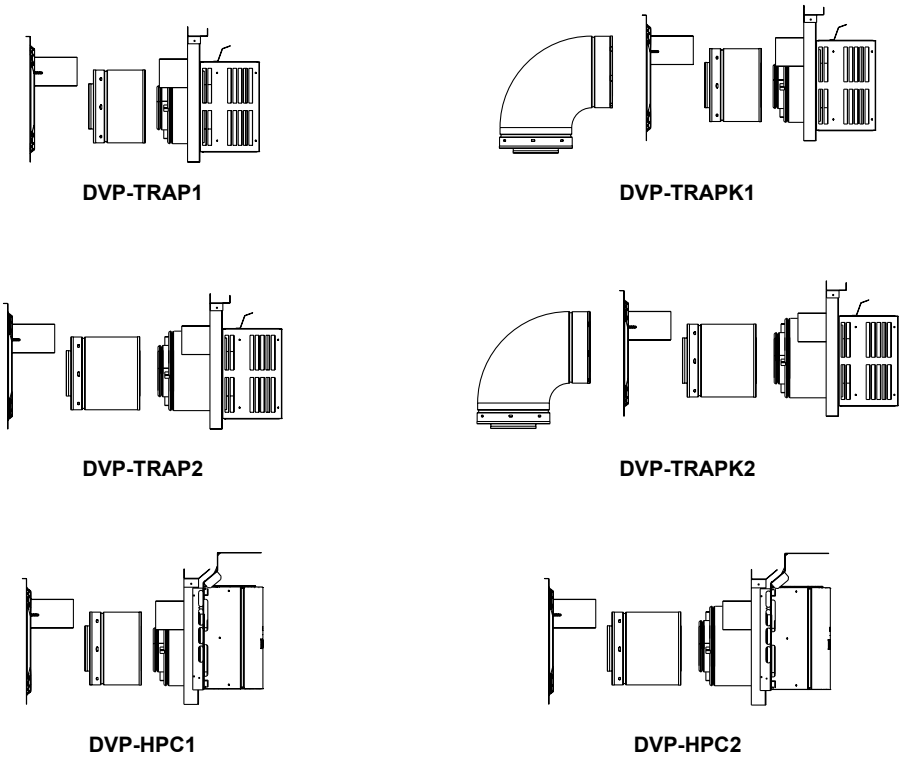
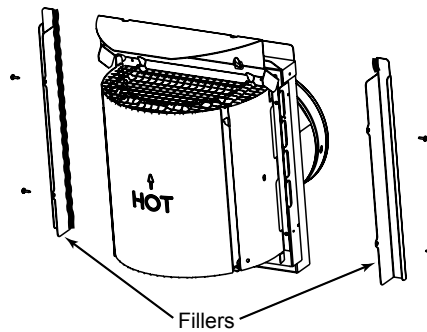
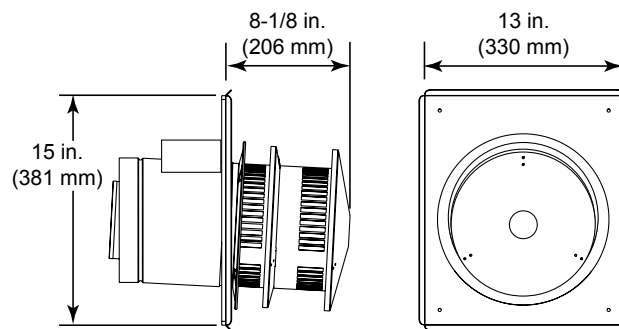


Figure 16.5 DVP Vent Components

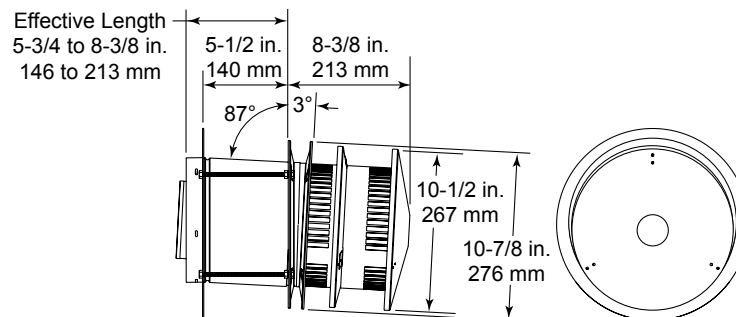
B. Vent Components Diagrams (*continued*)



➔ **DVP-TRAP to DVP-HPC Side Filler Kit**



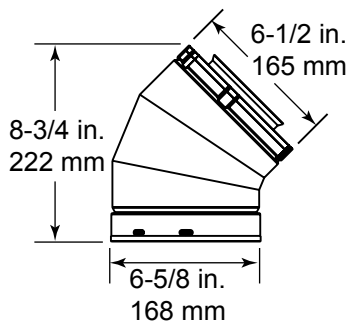
DVP-HRC-SS
(Not approved for NDV4842)



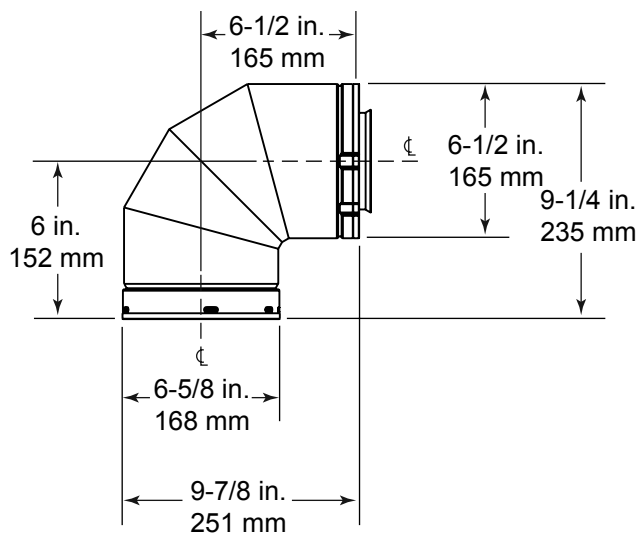
DVP-HRC-ZC-SS
(Not approved for NDV4842)

Figure 16.6 DVP Vent Components

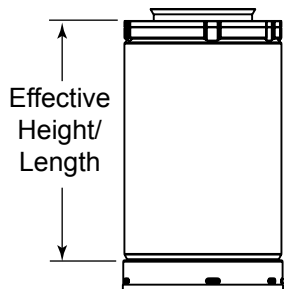
B. Vent Components Diagrams (*continued*)



SLP-45 - 45° Elbow



SLP-90ST - 90° Elbow

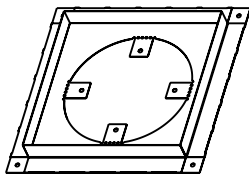


SLP-Pipe

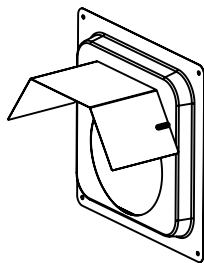
Effective Height/Length		
Pipe	inches	mm
SLP4	4	102
SLP6	6	152
SLP12	12	305
SLP24	24	610
SLP36	36	914
SLP48	48	1219
SLP6A	2 - 6	51 - 152
SLP12A	2 - 12	51 - 305



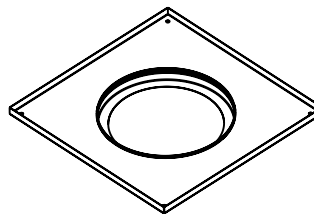
**DVP-SLP24
Adapter**



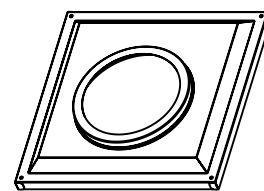
**SLP-FS
Ceiling Firestop**



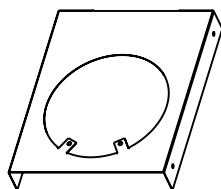
**SLP-WS
Wall Shield Firestop**



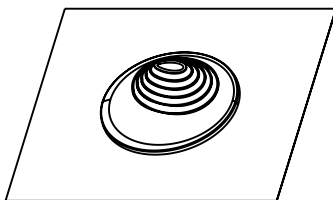
**SLP-DCF-BK
Ceiling Firestop-Black**



**SLP-WT-BK
Wall Thimble-Black**



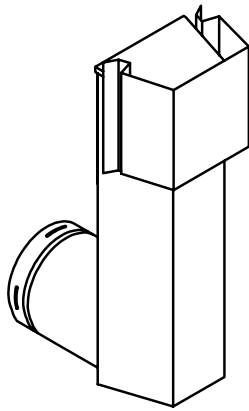
**SLP-HVS
Horizontal Pipe
Support**



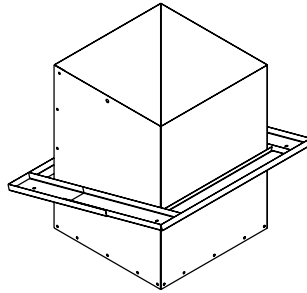
**RF4-8
Roof Flashing**

➔ **Figure 16.7 SLP Series Vent Components**

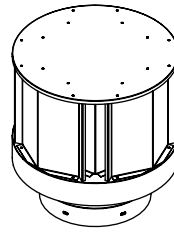
B. Vent Components Diagrams (*continued*)



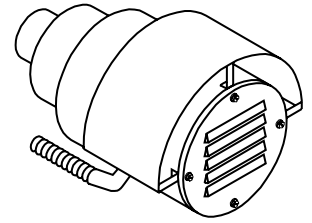
→ **SLK-SNKD**
Snorkel
Termination Cap



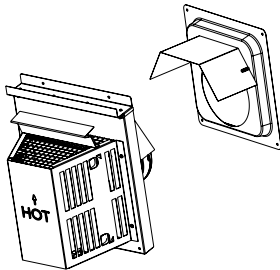
SLP-CCS-BK
Cathedral Ceiling Sup-
port Box-Black



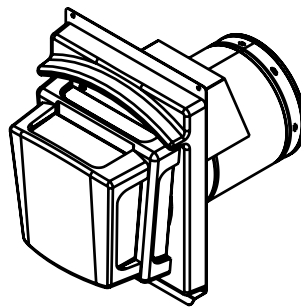
SLP-TVHW
Vertical
Termination Cap



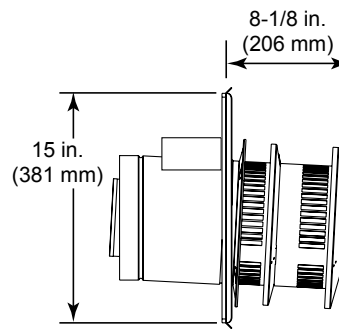
PVK-80
Power Vent



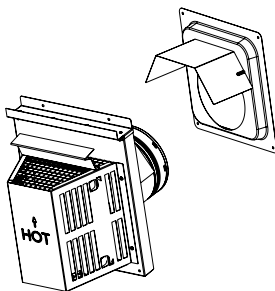
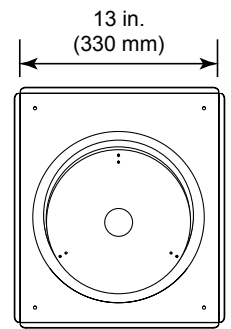
SLP-TRAP1
Horizontal
Termination Cap



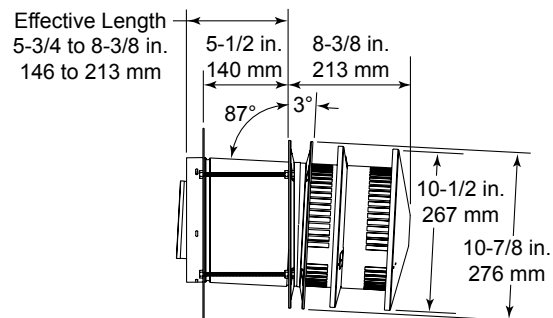
DVP-FBHT
Horizontal
Termination Cap



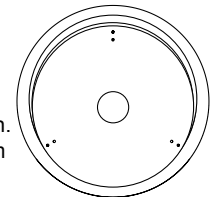
SLP-HRC-SS
(Not approved for NDV4842)



SLP-TRAP2
Horizontal
Termination Cap



SLP-HRC-ZC-SS
(Not approved for NDV4842)



→ **Figure 16.8 SLP Series Vent Components**

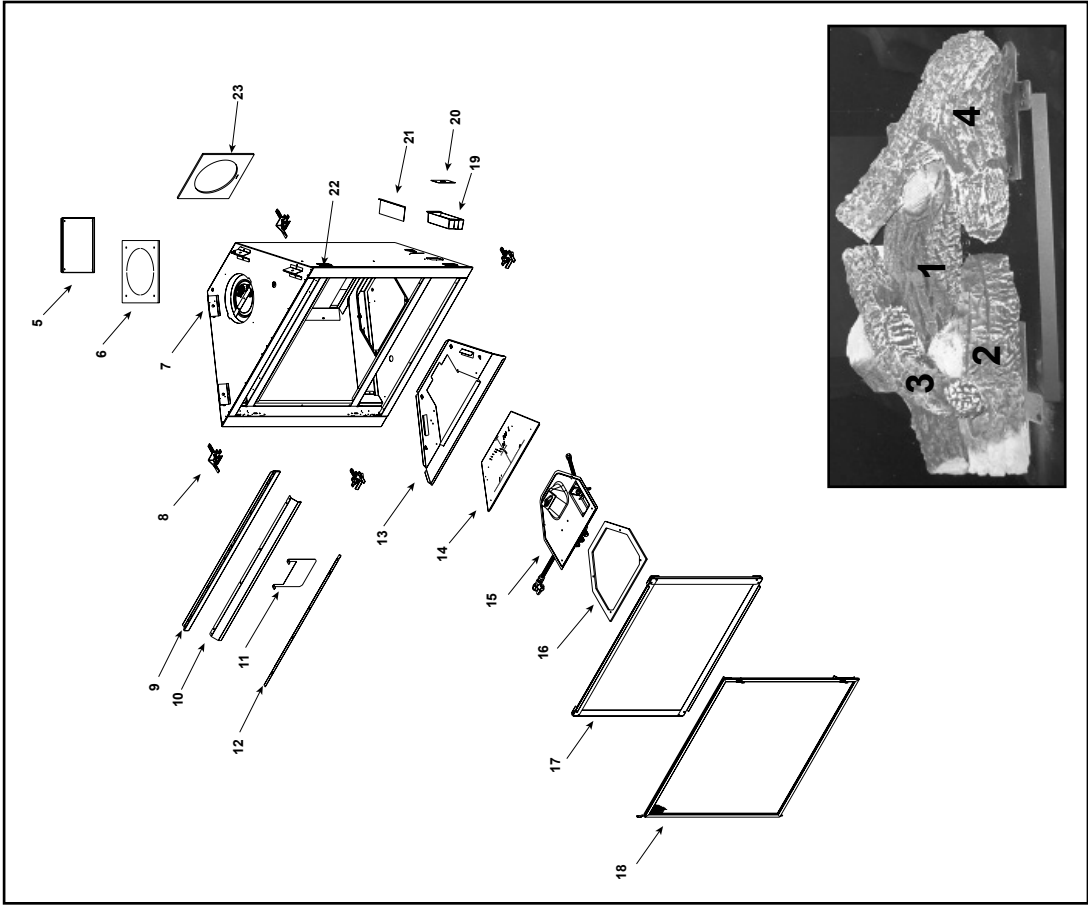
Service Parts

NDV3630 & NDV3630I

IMPORTANT: THIS IS DATED INFORMATION. When requesting service or replacement parts for your appliance please provide model number and serial number. All parts listed in this manual may be ordered from an authorized dealer.

ITEM	DESCRIPTION	SERIAL #	PART NUMBER	Stocked at Depot
	Log Set Assembly			
1	Log 1 (Back Log)		4055-080	N
2	Log 2 (Left Log)		4055-084	N
3	Log 3 (Top Log)		4055-083	N
4	Log 4 (Right Log)		4055-087	N
5	Intake Cover Plate		25844	N
6	Intake Cover Gasket		4031-239	N
7	Top Standoff	Qty 4	31179	N
8	Not replaceable must order overlay		4055-194	N
9			4055-133	n
10	Glass Latch Assembly	Qty 4	33858	Y
11	Dry Wall Lip		4031-205	N
12	Hood		4055-213	N
13	Flue Visor		4031-119	N
14	Glass Shield		4031-217	N
15	Hearth Pan		4055-109	N
16	Burner Assembly		4055-046	Y
	Valve Assembly NG	Standing Pilot	4055-025	N
17		IPI	4055-027	N
	Valve Assembly LP	IPI	4055-028	N
18			4055-135	N
19	Gasket, Valve Plate		4031-539	Y
20	Glass Frame Assembly		4055-060	Y
	Screen Assembly		4055-614	Y
21			4021-013	Y
22	Screen Rod		4031-222	N
23	Cover Plate		4055-194	N
24			4055-133	n
	Not replaceable must order overlay		4031-193	N
25			4044-161	N
26	Shield Junction Box	Qty 4	4031-252	N
27	Nailing Flange		4031-252	N
	Back Gasket		4031-252	N
28			4055-272	N
	Floor Cover			
STANDING PILOT CONVERSION KITS				
	Conversion Kit NG		SOCKVN-B	Y
	Conversion Kit LP		SOCKVP-B	Y
	Pilot Orifice NG		29476	Y
	Pilot Orifice LP		29477	Y
	Regulator NG		230-1570	Y
	Regulator LP		230-1520	Y
IPI CONVERSION KITS				
	Conversion Kit NG		DOCKVN	Y
	Conversion Kit LP		DOCKVP	Y
	Pilot Orifice NG		593-528	Y
	Pilot Orifice LP		593-527	Y
	Regulator NG		NGK-DXV	Y
	Regulator LP		LPK-DXV	Y

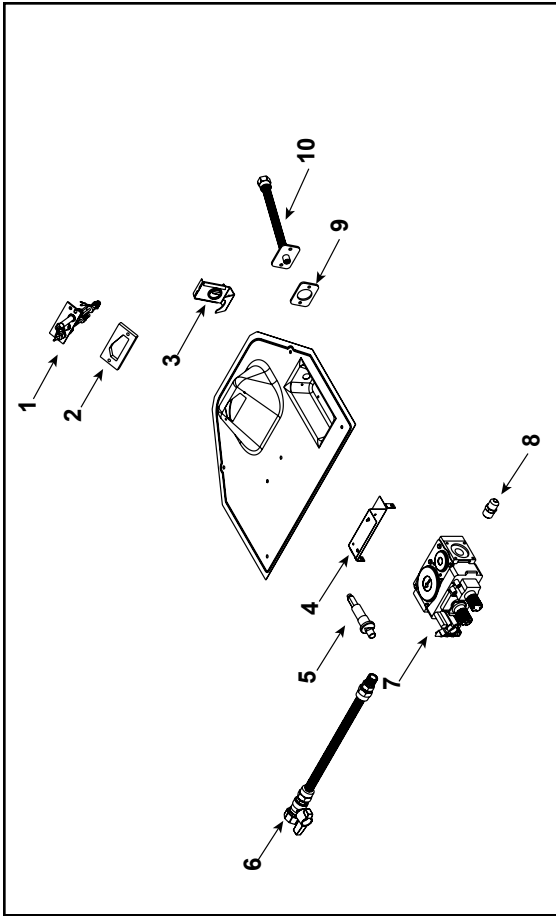
Additional service part numbers appear on following page.



Service Parts

NDV3630 & NDV3630I

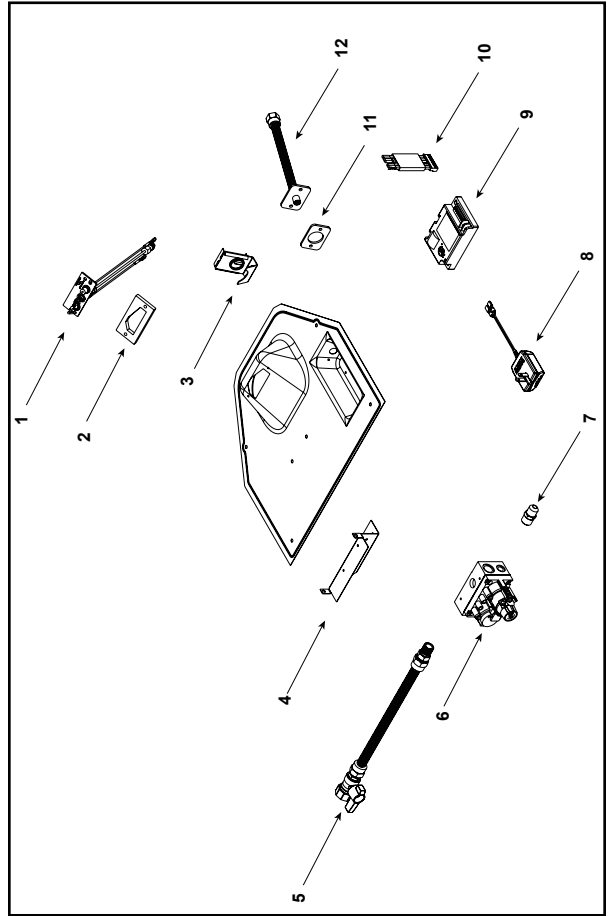
Standing Pilot Valve



IMPORTANT: THIS IS DATED INFORMATION. When requesting service or replacement parts for your appliance please provide model number and serial number. All parts listed in this manual may be ordered from an authorized dealer.

ITEM	DESCRIPTION	SERIAL #	PART NUMBER	Stocked at Depot
1	Pilot Assembly NG		2103-010	Y
2	Pilot Assembly LP		2103-011	Y
3	Gasket, Pilot		4021-042	N
4	Air Shutter Assembly		4055-202	Y
5	Bracket, Valve		4055-205	N
6	Piezo Ignitor		291-513	Y
7	Flex Ball Valve Assembly		302-320A	Y
8	Valve NG		230-0710	Y
9	Valve LP		230-0720	Y
10	Brass Fitting		4021-045	N
11	Gasket, Bulkhead		4021-429	N
12	Bulkhead, Flexible		4021-512	Y
	Wire Assembly, Wall Switch		28602	Y
	Orifice NG (.083)		4021-435	Y
	Orifice LP (#.52C)		4021-426	Y

IPI Valve

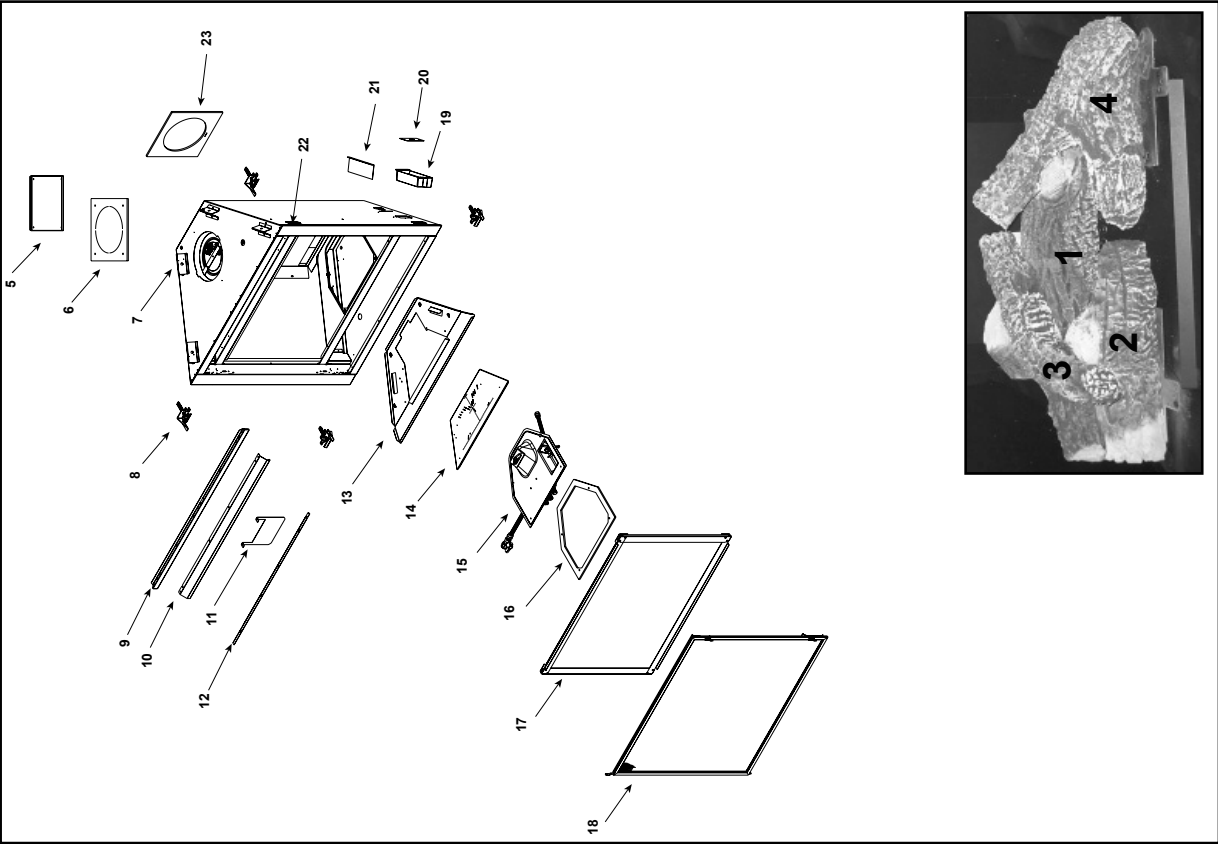


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ITEM	DESCRIPTION	SERIAL #	PART NUMBER	Stocked at Depot
1	Pilot Assembly NG		2090-012	Y
2	Pilot Assembly LP		2090-013	Y
3	Gasket, Pilot Assembly		4021-042	N
4	Air Shutter Assembly		4055-202	Y
5	Valve Bracket		4055-205	N
6	Flex Ball Valve Assembly		302-320A	Y
7	Valve NG		750-500	Y
8	Valve LP		750-501	Y
9	Brass Fitting		4021-045	N
10	3 Volt Transformer		583-593A	Y
11	Module		593-592	Y
12	Module Wire Assembly		593-590A	Y
	Gasket, Bulkhead		4021-049	N
	Bulkhead, Flexible		4021-512	Y
	Wire Assembly, Wall Switch		4018-018	Y
	Orifice NG (.083)		4021-435	Y
	Orifice LP (#.52C)		4021-426	Y

Service Parts

NDV3933 & NDV3933I



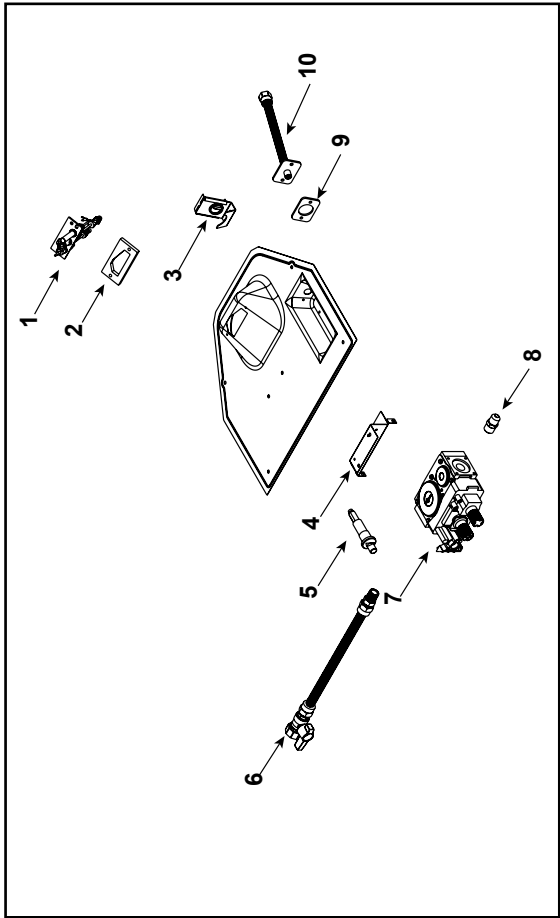
IMPORTANT: THIS IS DATED INFORMATION. When requesting service or replacement parts for your appliance please provide model number and serial number. All parts listed in this manual may be ordered from an authorized dealer.				Stocked at Depot
ITEM	DESCRIPTION	SERIAL #	PART NUMBER	
	Log Set Assembly			
1	Log 1 (Back Log)		4055-081	N
2	Log 2 (Left Log)		4055-085	N
3	Log 3 (Top Log)		4055-083	N
4	Log 4 (Right Log)		4055-088	N
5	Intake Cover Plate		25844	N
6	Intake Cover Gasket		4031-239	N
7	Top Standoff	Qty 4	31179	N
8	Not replaceable must orver overlay		4055-195	N
9			4055-133	N
10	Glass Latch Assembly	Qty 4	33858	N
11	Dry Wall Lip		4031-206	N
12	Hood		4055-214	N
13	Flue Visor		4031-119	N
14	Glass Shield		4031-218	N
15	Hearth Pan		4055-110	N
16	Burner Assembly		4055-047	Y
17	Valve Assembly NG	Standing Pilot	4055-025	N
		IPI	4055-027	N
	Valve Assembly LP	IPI	4055-028	N
18	Gasket, Valve Plate		4055-135	N
19	Glass Frame Assembly		4031-540	Y
20	Screen Assembly		4055-061	Y
	Screen Rod		4055-614	Y
21	Not replaceable must orver overlay		4055-195	N
22			4055-133	N
23	Junction box		4021-013	Y
24	Cover Plate		4031-222	N
25	Shield Junction Box		4031-193	N
26	Nailing Flange	Qty 4	4044-161	N
27	Back Gasket		4031-252	N
	Floor cover		4055-273	N
STANDING PILOT CONVERSION KITS				
	Conversion Kit NG		SCKVN-B	Y
	Conversion Kit LP		SCKNP-B	Y
	Pilot Orifice NG		29476	Y
	Pilot Orifice LP		29477	Y
	Regulator NG		230-1570	Y
	Regulator LP		230-1520	Y
IPI CONVERSION KITS				
	Conversion Kit NG		DKVN	Y
	Conversion Kit LP		DKVP	Y
	Pilot Orifice NG		593-528	Y
	Pilot Orifice LP		593-527	Y
	Regulator NG		NGK-DXV	Y
	Regulator LP		LPK-DXV	Y

Additional service part numbers appear on following page.

Service Parts

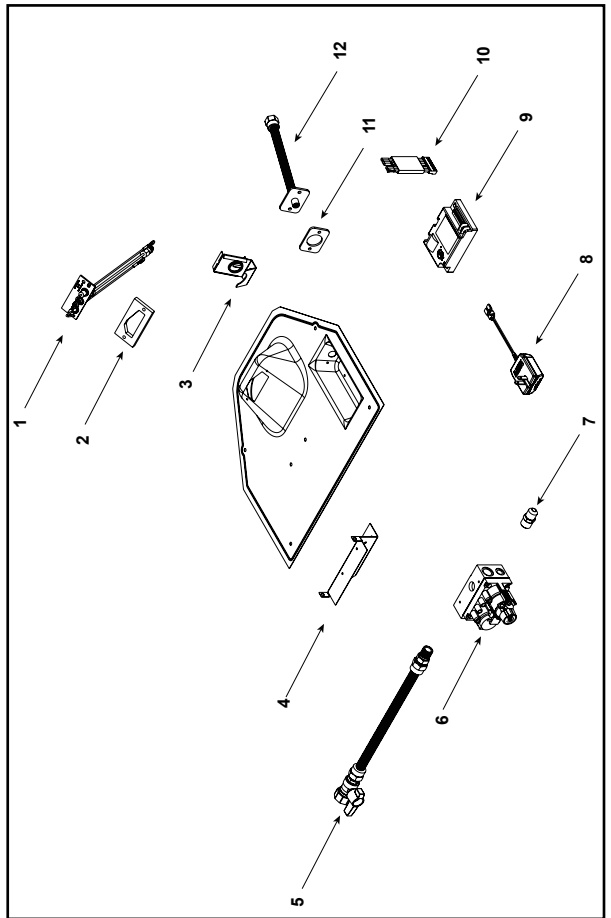
NDV3933 & NDV3933I

Standing Pilot Valve



ITEM	DESCRIPTION	SERIAL #	PART NUMBER	Stocked at Depot
1	Pilot Assembly NG		2103-010	Y
2	Pilot Assembly LP		2103-011	Y
3	Gasket, Pilot		4021-042	N
4	Air Shutter Assembly		4055-202	Y
5	Bracket, Valve		4055-205	N
6	Piezo Ignitor		291-513	Y
7	Flex Ball Valve Assembly		302-320A	Y
8	Valve NG		230-0710	Y
9	Valve LP		230-0720	Y
10	Brass Fitting		4021-045	N
11	Gasket, Bulkhead		4021-429	N
12	Bulkhead, Flexible		4021-512	N
	Wire Assembly, Wall Switch		28602	Y
	Orifice NG (#43C)		582-843	Y
	Orifice LP (#54C)		582-854	Y

IPI Valve



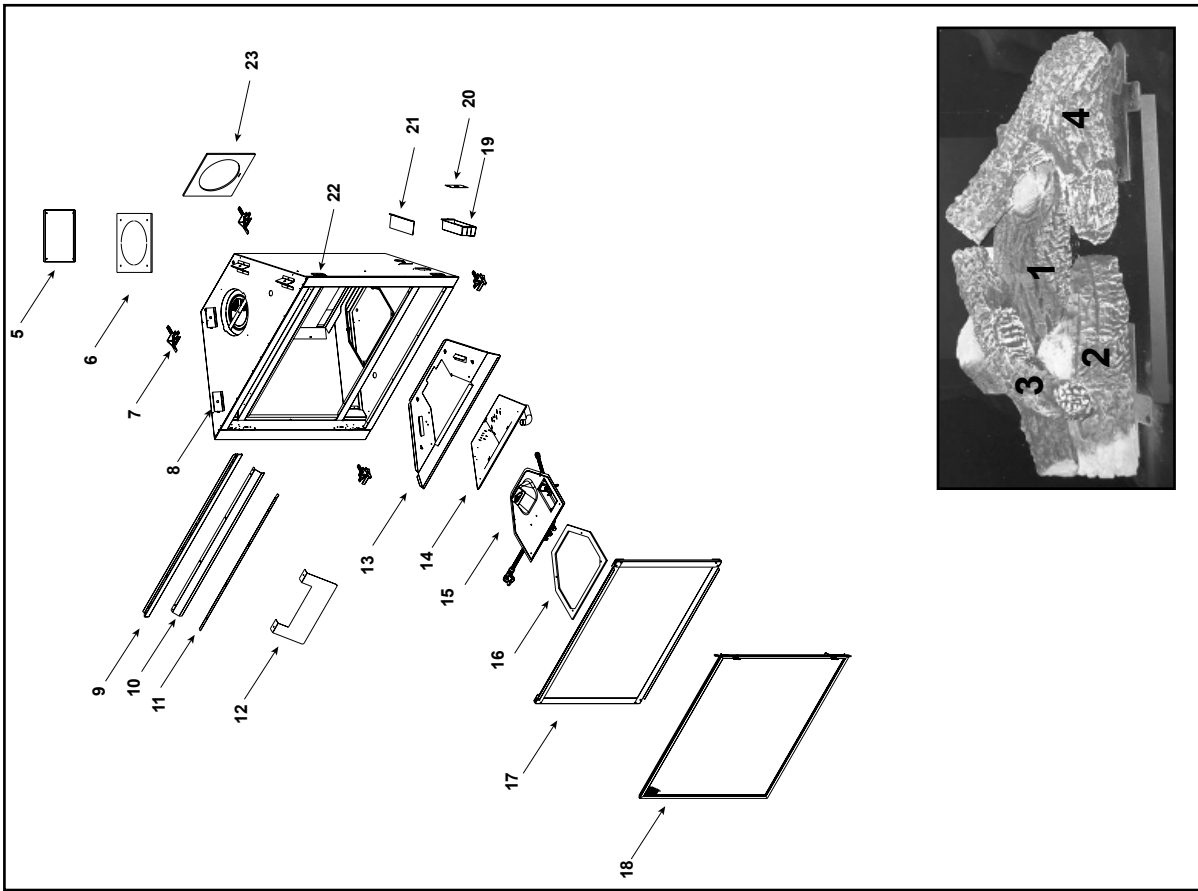
ITEM	DESCRIPTION	SERIAL #	PART NUMBER	Stocked at Depot
1	Pilot Assembly NG		2090-012	Y
2	Pilot Assembly LP		2090-013	Y
3	Gasket, Pilot Assembly		4021-042	N
4	Air Shutter Assembly		4055-202	N
5	Valve Bracket		4055-205	N
6	Flex Ball Valve Assembly		302-320A	Y
7	Valve NG		750-500	Y
8	Valve LP		750-501	Y
9	Brass Fitting		4021-045	N
10	3 Volt Transformer		583-593A	Y
11	Module		593-592	Y
12	Module Wire Assembly		593-590A	Y
13	Gasket, Bulkhead		4021-049	N
14	Bulkhead, Flexible		4021-512	Y
	Wire Assembly, Wall Switch		4018-018	Y
	Orifice NG (#43C)		582-843	Y
	Orifice LP (#54C)		582-854	Y

Service Parts NDV4236 & NDV4236I

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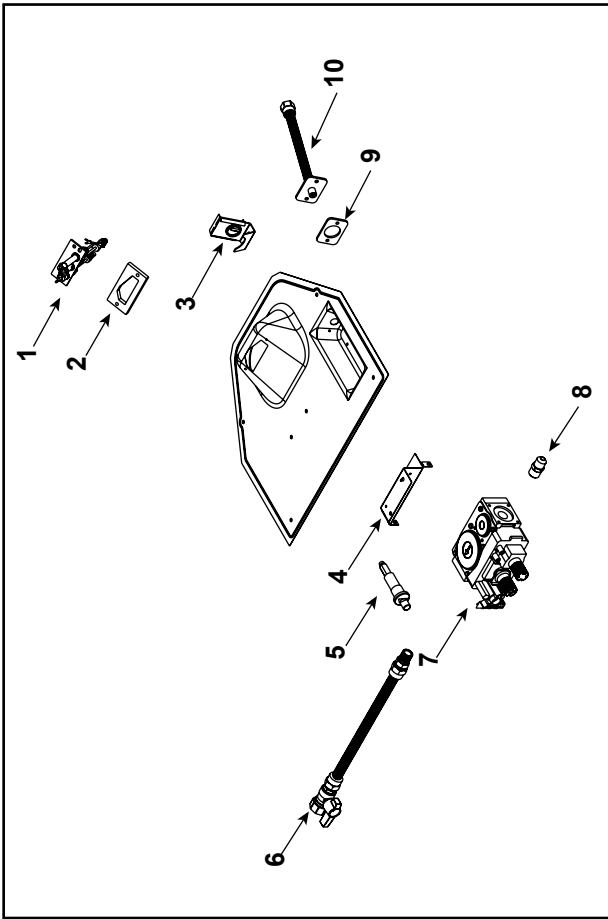
ITEM	DESCRIPTION	SERIAL #	PART NUMBER	Stocked at Depot
	Log Set Assembly			
1	Log 1 (Back Log)		4055-081	N
2	Log 2 (Left Log)		4055-085	N
3	Log 3 (Top Log)		4055-083	N
4	Log 4 (Right Log)		4055-088	N
5	Intake Cover Plate		25844	N
6	Intake Cover Gasket		4031-239	N
7	Glass Latch Assembly	Qty 4	33858	Y
8	Top Standoff	Qty 4	31179	N
9			4055-196	N
10	Not replaceable must order overlay		4055-133	N
11	Dry Wall Lip		4031-207	N
12	Hood		4055-215	N
13	Glass Shield		4031-219	N
14	Flue Visor		4055-148	N
15	Hearth Pan		4055-111	N
16	Burner Assembly		4055-047	Y
17	Valve Assembly NG	Standing Pilot	4055-025	N
		IPI	4055-027	N
		IPI	4055-028	N
18	Valve Assembly LP		4055-135	N
19	Gasket, Valve Plate		4000-052	Y
20	Glass Frame Assembly		4055-062	Y
	Screen Assembly		4055-614	Y
	Screen Rod		4055-196	N
21	Not replaceable must order overlay		4055-133	N
22			4021-013	Y
23	Junction Box		4031-222	N
24	Cover Plate		4031-193	N
25	Shield Junction Box		4044-161	N
26	Nailing Flange	Qty 4	4031-252	N
27	Back Gasket		4055-274	N
	Floor Cover			
STANDING PILOT CONVERSION KITS				
	Conversion Kit NG		SCKVN-B	Y
	Conversion Kit LP		SCKVP-B	Y
	Pilot Office NG		29476	Y
	Pilot Office LP		29477	Y
	Regulator NG		230-1570	Y
	Regulator LP		230-1520	Y
IPI CONVERSION KITS				
	Conversion Kit NG		DKCVN	Y
	Conversion Kit LP		DKCVP	Y
	Pilot Office NG		593-528	Y
	Pilot Office LP		593-527	Y
	Regulator NG		NGK-DXV	Y
	Regulator LP		LPK-DXV	Y

Additional service part numbers appear on following page.



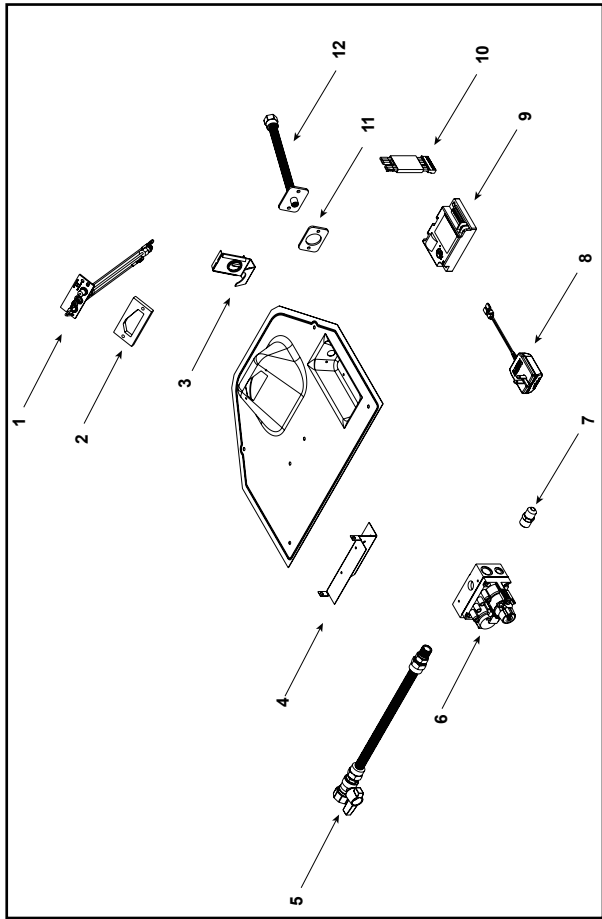
Service Parts NDV4236 & NDV4236I

Standing Pilot Valve



ITEM	DESCRIPTION	SERIAL #	PART NUMBER	Stocked at Depot
1	Pilot Assembly NG		2103-010	Y
2	Pilot Assembly LP		2103-011	Y
3	Gasket, Pilot		4021-042	N
4	Air Shutter Assembly		4055-202	Y
5	Bracket, Valve		4055-205	N
6	Piezo Ignitor		291-513	Y
7	Flex Ball Valve Assembly		302-320A	Y
8	Valve NG		230-0710	Y
9	Valve LP		230-0720	Y
10	Brass Fitting		4021-045	N
11	Gasket, Bulkhead		4021-429	N
12	Bulkhead, Flexible		4021-512	Y
	Wire Assembly, Wall Switch		28802	Y
	Orifice NG (#42C)		582-842	Y
	Orifice LP (0.058)		4021-602	Y

IPI Valve



ITEM	DESCRIPTION	SERIAL #	PART NUMBER	Stocked at Depot
1	Pilot Assembly NG		2090-012	Y
2	Pilot Assembly LP		2090-013	Y
3	Gasket, Pilot Assembly		4021-042	N
4	Air Shutter Assembly		4055-202	N
5	Valve Bracket		4055-205	N
6	Flex Ball Valve Assembly		302-320A	Y
7	Valve NG		750-500	Y
8	Valve LP		750-501	Y
9	Brass Fitting		4021-045	N
10	3 Volt Transformer		583-593A	Y
11	Module		593-592	Y
12	Module Wire Assembly		593-590A	Y
	Gasket, Bulkhead		4021-049	N
	Bulkhead, Flexible		4021-512	Y
	Wire Assembly, Wall Switch		4018-018	Y
	Orifice NG (#42C)		582-842	Y
	Orifice LP (0.058)		4021-602	Y

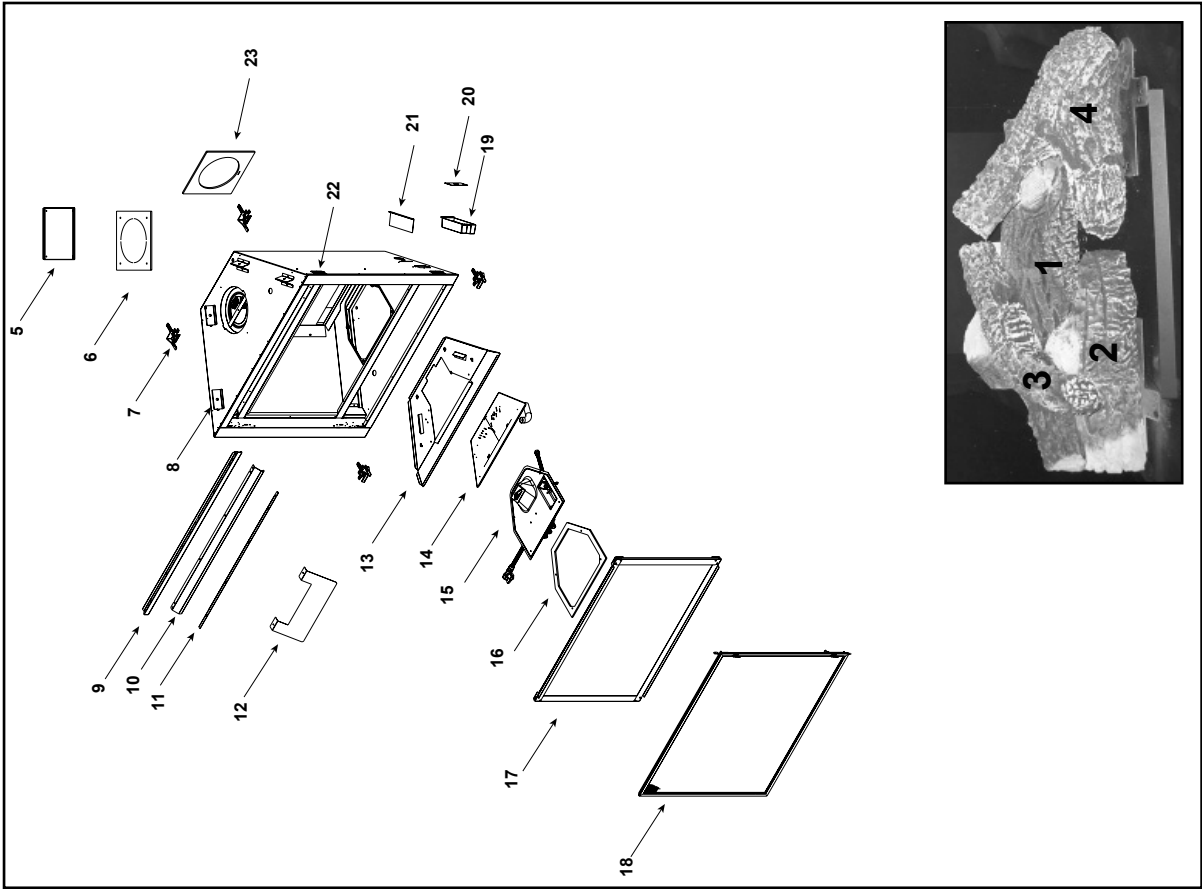
Service Parts

NDV4842 & NDV4842I

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ITEM	DESCRIPTION	SERIAL #	PART NUMBER	Stocked at Depot
	Log Set Assembly			
1	Log 1 (Back Log)		4055-082	N
2	Log 2 (Left Log)		4055-086	N
3	Log 3 (Top Log)		4055-083	N
4	Log 4 (Right Log)		4055-089	N
5	Intake Cover Plate		25844	N
6	Intake Cover Gasket		4031-239	N
7	Glass Latch Assembly	Qty 4	33858	Y
8	Top Standoff	Qty 4	31179	N
9	Not replaceable must order overlay		4055-197	N
10			4055-133	N
11	Dry Wall Lip		4031-208	N
12	Hood		4055-216	N
13	Glass Shield		4031-220	N
14	Flue Visor		4055-148	N
15	Hearth Pan		4055-112	N
16	Burner Assembly		4055-049	Y
17	Valve Assembly NG	Standing Pilot	4055-025	N
		IPI	4055-027	N
18	Valve Assembly LP	IPI	4055-028	N
			4055-135	N
19	Gasket, Valve Plate		4000-053	Y
20	Glass Frame Assembly		4055-063	Y
			4055-614	Y
21	Screen Assembly		4055-197	N
			4055-133	N
22	Not replaceable must order overlay		4021-013	Y
23			4031-222	N
24	Junction box		4031-193	N
25	Cover Plate		4044-161	N
26	Shield Junction Box	Qty 4	4031-252	N
27	Nailing Flange		4055-275	N
	Back Gasket			
	Floor cover			
STANDING PILOT CONVERSION KITS				
	Conversion Kit NG		SCKVN-B	Y
	Conversion Kit LP		SCKVP-B	Y
	Pilot Orifice NG		29476	Y
	Pilot Orifice LP		29477	Y
	Regulator NG		230-1570	Y
	Regulator LP		230-1520	Y
IPI CONVERSION KITS				
	Conversion Kit NG		DKCVN	Y
	Conversion Kit LP		DKCVP	Y
	Pilot Orifice NG		593-528	Y
	Pilot Orifice LP		593-527	Y
	Regulator NG		NGK-DXV	Y
	Regulator LP		LPK-DXV	Y

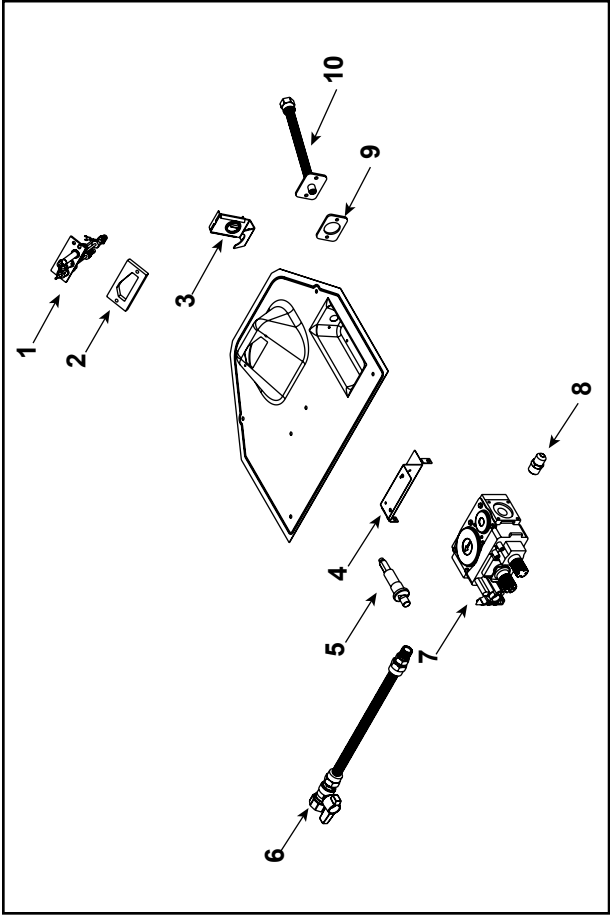
Additional service part numbers appear on following page.



Service Parts

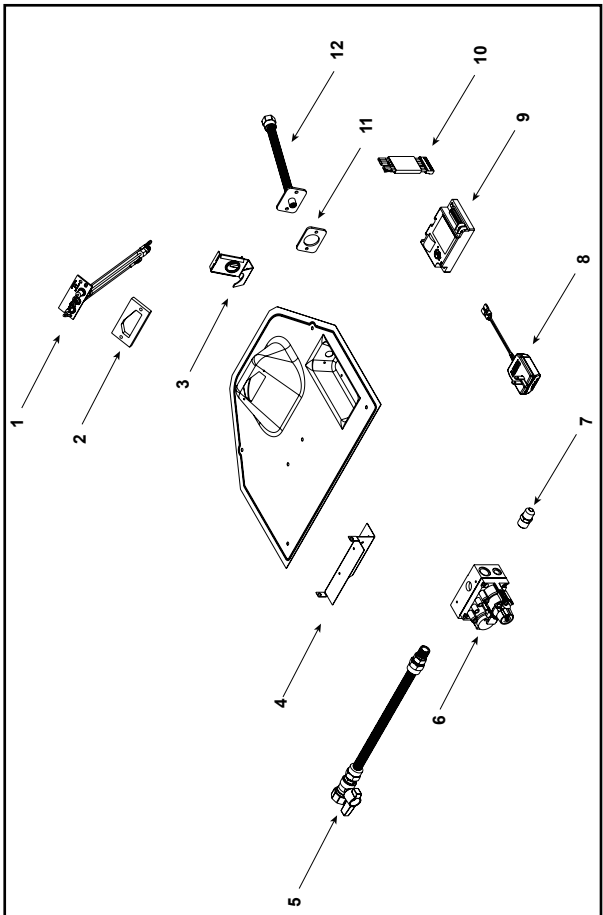
NDV4842 & NDV4842I

Standing Pilot Valve



ITEM	DESCRIPTION	SERIAL #	PART NUMBER	Stocked at Depot
1	Pilot Assembly NG		2103-010	Y
2	Pilot Assembly LP		2103-011	Y
3	Gasket, Pilot		4021-042	N
4	Air Shutter Assembly		4055-202	Y
5	Bracket, Valve		4055-205	N
6	Piezo Ignitor		291-513	Y
7	Flex Ball Valve Assembly		302-320A	Y
8	Valve NG		230-0710	Y
9	Valve LP		230-0720	Y
10	Brass Fitting		4021-045	N
11	Gasket, Bulkhead		4021-429	N
12	Bulkhead, Flexible		4021-512	Y
	Wire Assembly, Wall Switch		28602	Y
	Office NG (#37C)		582-837	Y
	Office LP (#52C)		582-852	Y

IPI Valve



ITEM	DESCRIPTION	SERIAL #	PART NUMBER	Stocked at Depot
1	Pilot Assembly NG		2090-012	Y
2	Pilot Assembly LP		2090-013	Y
3	Gasket, Pilot Assembly		4021-042	N
4	Air Shutter Assembly		4055-202	N
5	Valve Bracket		4055-205	N
6	Flex Ball Valve Assembly		302-320A	Y
7	Valve NG		750-500	Y
8	Valve LP		750-501	Y
9	Brass Fitting		4021-045	N
10	3 Volt Transformer		583-593A	Y
11	Module		593-592	Y
12	Module Wire Assembly		593-590A	Y
	Gasket, Bulkhead		4021-049	N
	Bulkhead, Flexible		4021-512	Y
	Wire Assembly, Wall Switch		4018-018	Y
	Office NG (#37C)		582-837	Y
	Office LP (#52C)		582-852	Y

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D. Optional Components

Model #	Description
NDV3630	Top/rear direct vent standing pilot, natural gas, 36" framing width, 30" viewing glass
NDV3630L	Top/rear direct vent standing pilot, L.P. gas, 36" framing width, 30" viewing glass
NDV3630I	Top/rear direct vent, natural gas, Intellifire ignition system, 36" framing width, 30" viewing glass
NDV3630IL	Top/rear direct vent, LP gas, Intellifire ignition system, 36" framing width, 30" viewing glass
Optional Accessories (shipped separately)	
WTB30	Traditional brick pattern refractory
WHB30	Herringbone brick pattern refractory
BC10	Fan motor rheostat control, wall mounted
GFK21B	Transaxial fan kit
GFK21MB	Multi-pak of 12 GFK21B transaxial fan kits
RCTS-MLT-HTL	Remote Control Kit (SIT valve only)
WSK-MLT-HTL	Multi-function wall switch (standing pilot or Intellifire ignition, Robertshaw valve only)
RC-BATT-HTL	Battery operated remote control (standing pilot or Intellifire ignition)
RC-SMART-HTL	Remote control (requires 110v or prewiring)
RCT-MLT-HTL	Multi-functional remote: On/Off, high/low flame, room temp., fan speed (standing pilot or Intellifire ignition, Robertshaw valve only)
SMART-STAT-HTL	Multi-functional remote: On/Off, room temp., thermostat temp., timer (standing pilot or Intellifire ignition)
SMART-BATT-HTL	Multi-functional remote: On/Off, thermostat temp., timer (standing pilot or Intellifire ignition)
WSK300	Wall Switch Control Kit
DCKVP	L.P. gas conversion kit for Intellifire ignition system
DCKVN	Natural gas conversion kit of Intellifire ignition system
SCKVP-B	LP Gas Conversion Kit
SCKVN-B	Natural Gas Conversion Kit
DF-DEMI30	Operable Square Decorative Front
DF-TRES30	Operable Arch Decorative Front
FFDEMI30	Non-operable Decorative Front

Model #	Description
NDV3933	Top/rear direct vent standing pilot, natural gas, 39" framing width, 33" viewing glass
NDV3933L	Top/rear direct vent standing pilot, L.P. gas, 39" framing width, 33" viewing glass
NDV3933I	Top/rear direct vent, natural gas, Intellifire ignition system, 39" framing width, 33" viewing glass
NDV3933IL	Top/rear direct vent, LP gas, Intellifire ignition system, 39" framing width, 33" viewing glass
Optional Accessories (shipped separately)	
WTB33	Traditional brick pattern refractory
WHB33	Herringbone brick pattern refractory
BC10	Fan motor rheostat control, wall mounted
GFK4B	Transaxial fan kit
GFK4MB	Multi-pak of 12 GFK4B transaxial fan kits
RCTS-MLT-HTL	Remote Control Kit (SIT valve only)
WSK-MLT-HTL	Multi-function wall switch (standing pilot or Intellifire ignition, Robertshaw valve only)
RC-BATT-HTL	Battery operated remote control (standing pilot or Intellifire ignition)
RC-SMART-HTL	Remote control (requires 110v or prewiring)
RCT-MLT-HTL	Multi-functional remote: On/Off, high/low flame, room temp., fan speed (standing pilot or Intellifire ignition, Robertshaw valve only)
SMART-STAT-HTL	Multi-functional remote: On/Off, room temp., thermostat temp., timer (standing pilot or Intellifire ignition)
SMART-BATT-HTL	Multi-functional remote: On/Off, thermostat temp., timer (standing pilot or Intellifire ignition)
WSK300	Wall Switch Control Kit
DCKVP	L.P. gas conversion kit for Intellifire ignition system
DCKVN	Natural gas conversion kit of Intellifire ignition system
SCKVP-B	LP Gas Conversion Kit
SCKVN-B	Natural Gas Conversion Kit
DF-DEMI33	Operable Square Decorative Front
DF-TRES33	Operable Arch Decorative Front
FFDEMI33	Non-operable Decorative Front

Model #	Description
NDV4236	Top/rear direct vent standing pilot, natural gas, 42" framing width, 36" viewing glass
NDV4236L	Top/rear direct vent standing pilot, L.P. gas, 42" framing width, 36" viewing glass
NDV4236I	Top/rear direct vent, natural gas, Intellifire ignition system, 42" framing width, 36" viewing glass
NDV4236IL	Top/rear direct vent, LP gas, Intellifire ignition system, 42" framing width, 36" viewing glass
Optional Accessories (shipped separately)	
WTB36	Traditional brick pattern refractory
WHB36	Herringbone brick pattern refractory
BC10	Fan motor rheostat control, wall mounted
GFK4B	Transaxial fan kit
GFK4MB	Multi-pak of 12 GFK4B transaxial fan kits
RCTS-MLT-HTL	Remote Control Kit (SIT valve only)
WSK-MLT-HTL	Multi-function wall switch (standing pilot or Intellifire ignition, Robertshaw valve only)
RC-BATT-HTL	Battery operated remote control (standing pilot or Intellifire ignition)
RC-SMART-HTL	Remote control (requires 110v or prewiring)
RCT-MLT-HTL	Multi-functional remote: On/Off, high/low flame, room temp., fan speed (standing pilot or Intellifire ignition, Robertshaw valve only)
SMART-STAT-HTL	Multi-functional remote: On/Off, room temp., thermostat temp., timer (standing pilot or Intellifire ignition)
SMART-BATT-HTL	Multi-functional remote: On/Off, thermostat temp., timer (standing pilot or Intellifire ignition)
WSK300	Wall Switch Control Kit
DCKVP	L.P. gas conversion kit for Intellifire ignition system
DCKVN	Natural gas conversion kit of Intellifire ignition system
SCKVP-B	LP Gas Conversion Kit
SCKVN-B	Natural Gas Conversion Kit
DF-DEMI36	Operable Square Decorative Front
DF-TRES36	Operable Arch Decorative Front
FFDEMI36	Non-operable Decorative Front

Model #	Description
NDV4842	Top/rear direct vent standing pilot, natural gas, 48" framing width, 42" viewing glass
NDV4842L	Top/rear direct vent standing pilot, L.P. gas, 48" framing width, 42" viewing glass
NDV4842I	Top/rear direct vent, natural gas, Intellifire ignition system, 48" framing width, 42" viewing glass
NDV4842IL	Top/rear direct vent, LP gas, Intellifire ignition system, 48" framing width, 42" viewing glass
Optional Accessories (shipped separately)	
WTB42	Traditional brick pattern refractory
WHB42	Herringbone brick pattern refractory
BC10	Fan motor rheostat control, wall mounted
GFK4B	Transaxial fan kit
GFK4MB	Multi-pak of 12 GFK4B transaxial fan kits
RCTS-MLT-HTL	Remote Control Kit (SIT valve only)
WSK-MLT-HTL	Multi-function wall switch (standing pilot or Intellifire ignition, Robertshaw valve only)
RC-BATT-HTL	Battery operated remote control (standing pilot or Intellifire ignition)
RC-SMART-HTL	Remote control (requires 110v or prewiring)
RCT-MLT-HTL	Multi-functional remote: On/Off, high/low flame, room temp., fan speed (standing pilot or Intellifire ignition, Robertshaw valve only)
SMART-STAT-HTL	Multi-functional remote: On/Off, room temp., thermostat temp., timer (standing pilot or Intellifire ignition)
SMART-BATT-HTL	Multi-functional remote: On/Off, thermostat temp., timer (standing pilot or Intellifire ignition)
WSK300	Wall Switch Control Kit
DCKVP	L.P. gas conversion kit for Intellifire ignition system
DCKVN	Natural gas conversion kit of Intellifire ignition system
SCKVP-B	LP Gas Conversion Kit
SCKVN-B	Natural Gas Conversion Kit
DF-DEMI42	Operable Square Decorative Front
DF-TRES42	Operable Arch Decorative Front
FFDEMI42	Non-operable Decorative Front

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E. Contact Information



Heatilator, a brand of Hearth & Home Technologies Inc.
1915 W. Saunders St., Mt. Pleasant, IA 52641

Please contact your Heatilator dealer with any questions or concerns.
For the location of your nearest Heatilator dealer,
please visit www.heatilator.com.

- NOTES -

NOTICE



DO NOT DISCARD THIS MANUAL

- Important operating and maintenance instructions included.
- Read, understand and follow these instructions for safe installation and operation.
- Leave this manual with party responsible for use and operation.



This product may be covered by one or more of the following patents: (United States) 4593510, 4686807, 4766876, 4793322, 4811534, 5000162, 5016609, 5076254, 5113843, 5191877, 5218953, 5263471, 5328356, 5341794, 5347983, 5429495, 5452708, 5542407, 5601073, 5613487, 5647340, 5688568, 5762062, 5775408, 5890485, 5931661, 5941237, 5947112, 5996575, 6006743, 6019099, 6048195, 6053165, 6145502, 6170481, 6237588, 6296474, 6374822, 6413079, 6439226, 6484712, 6543698, 6550687, 6601579, 6672860, 6688302B2, 6715724B2, 6729551, 6736133, 6748940, 6748942, 6769426, 6774802, 6796302, 6840261, 6848441, 6863064, 6866205, 6869278, 6875012, 6880275, 6908039, 6919884, D320652, D445174, D462436; (Canada) 1297749, 2195264, 2225408, 2313972; (Australia) 780250, 780403, 1418504 or other U.S. and foreign patents pending.

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