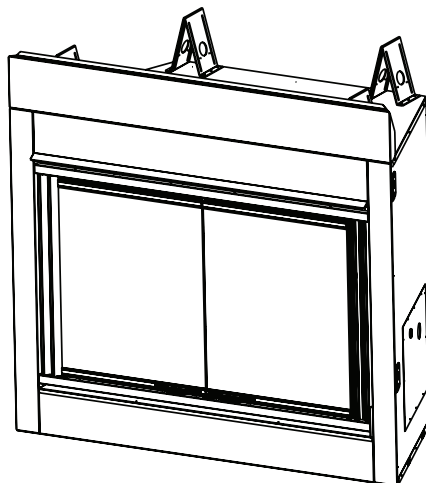


Models:
Dakota 42-B
Dakota 42H-B



This appliance has been retired.
Service parts pages within have been removed.
For replacement parts, please refer to the individual
service parts list located on the brand websites.

Owner's Manual

Installation and Operation

GAS-FIRED



INSTALLER: Leave this manual with party responsible for use and operation.
OWNER: Retain this manual for future reference.

WARNING

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

An LP-cylinder not connected for use shall not be stored in the vicinity of this or any other appliance.

DANGER

If you smell gas:

1. Shut off gas to the appliance.
2. Extinguish any open flame.
3. If odor continues, keep away from the appliance and immediately call your gas supplier or fire department.

WARNING: Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Read the installation, operating and maintenance instructions thoroughly before installing or servicing this equipment.

DANGER



WARNING: For Outdoor Use Only.

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 appliance.
 - Alert children and adults to hazards of high temperatures. High temperatures may ignite clothing or other flammable materials.
 - Keep clothing, furniture, draperies and other combustibles away.

Note: An arrow (➡) found in the text signifies change in content.

CARBON MONOXIDE HAZARD

This appliance can produce carbon monoxide which has no odor.

Using it in an enclosed space can kill you.

Never use this appliance in an enclosed space such as a camper, tent or home.

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

Congratulations

Congratulations on selecting a Outdoor LifeStyles Collection gas appliance—an elegant and clean alternative to wood burning appliances. The Outdoor LifeStyles Collection gas appliance you have selected is designed to provide the utmost in safety, reliability, and efficiency.

As the owner of a new appliance, 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 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 Outdoor LifeStyle Collection gas appliance will give you years of durable use and trouble-free enjoyment. Welcome to the Outdoor LifeStyle Collection family of appliance products!

Homeowner Reference Information

We recommend that you record the following pertinent information about your appliance:

Model Name: _____ Date purchased/installed: _____

Serial Number: _____ Location on appliance: _____

Dealership purchased from: _____ Dealer phone: _____

Notes: _____

Listing Label Information/Location

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

Type of Gas Serial Number

outdoor lifestyles
by hearth & home technologies
Outdoor Lifestyles by
Hearth & Home Technologies
7571-215th St. West, Lakeville, MN 55044

This appliance must be installed in accordance with local codes, if any; if not, follow ANSI Z223.1 in the USA installation codes.

GAS-FIRED
UL
LISTED
29LD
US

ANSI Z21.97-2014
CSA 2.41-2014
Outdoor Decorative
Gas Appliances

Serial (Serie):
OD *
Mfg. Date:

Minimum Permissible Gas Supply for Purposes of Input Adjustment

	Natural Gas	Propane Gas
Approved Minimum (De Gaz) Acceptable	7.0 in. w.c. (Po. Col. d'eau)	11.0 in. w.c. (Po. Col. d'eau)
Maximum Pressure (Pression)	10.0 in. w.c. (Po. Col. d'eau)	14.0 in. w.c. (Po. Col. d'eau)
Maximum Input BTUH:	60,000	53,000
Orifice Size:	#25DMS	#44DMS

Model (Modele): ☐ **DAKOTA42-B**
☐ **DAKOTA42L-B**

MADE IN USA

4036-994H

Gas and Electric Information Model Number

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1 Listing and Code Approvals

A. Appliance Certification

MODELS: Dakota 42-B, Dakota 42H-B
LABORATORY: Underwriters Laboratories, Inc. (UL)
TYPE: Vented Gas Appliance
STANDARD: **ANSI Z21.97-2014—CSA2.41-2014**

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

B. 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.

Note: 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.

Installation and service of this appliance should be performed by qualified personnel. Hearth & Home Technologies recommends HHT Factory Trained or NFI certified professionals.



C. BTU Specifications

Models	Maximum Input BTUH	Orifice Size (DMS)
Dakota 42-B (NG)	60,000	25
Dakota 42-B (LP)	53,000	44

D. High Altitude Installations

U.L. Listed gas appliances are tested and approved without requiring changes for elevations from 0 to 2000 feet in the U.S.A. and Canada.

When installing this appliance at an elevation above 2000 ft, it may be necessary to decrease the input rating by changing the existing burner orifice to a smaller size. Input rate should be reduced by 4% for each 1000 ft above a 2000 ft elevation in the U.S.A., or 10% for elevations between 2000 and 4500 ft in Canada. If the heating value of the gas has been reduced, these rules do not apply. To identify the proper orifice size, check with the local gas utility.

If installing this appliance at an elevation above 4500 ft (in Canada), check with local authorities.

WARNING

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.

2 Getting Started

A. Design and Installation Considerations

These appliances must be installed outdoors.

The Dakota 42-B Series outdoor gas fireplace is designed for outdoor use. It may also be installed in screened porches and lanais that meet these minimum requirements:

- Minimum porch area - 96 square feet
- Minimum ceiling height - 84 in.

A minimum of two walls can be screened but must be open to outside ventilation.

- Minimum screen area - 64 square feet
- Minimum screen top height - 80 in.

Refer to Section 3.B. for clearances.

CAUTION

Check building codes prior to installation.

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

When planning an appliance installation, it's necessary to determine the following information before installing:

- Where the appliance is to be installed.
- Gas supply piping.
- Electrical wiring.
- Framing and finishing details.

Moisture Resistance:

This outdoor fireplace will shed moderate amounts of water, but is not waterproof. Water and condensing water vapor may enter the chase under certain conditions.

The fireplace will not perform as an exterior wall. Moisture penetration must be considered for construction that places the fireplace in structure walls or on moisture sensitive surfaces.

When installed on exterior walls: Hearth & Home Technologies recommends that the fireplace chase be constructed outside the structure's weather envelope. Where the platform meets the wall, use a flashing detail similar to that required for attached decks. Chase platforms, including hearths should slope away from the structure at 1/8 in. to 1/4 in. per foot. The fireplace can be shimmed level.

When installed on surfaces where water may collect or cause damage: Hearth & Home Technologies recommends that a drainage pan be placed under the unit. This can be constructed of metal, adhesive polymer membrane (such as ice and water shield) or other suitable materials. A means of drainage out of the pan such as tubes or weep holes should be provided. A slope of 1/8 in. to 1/4 in. per foot towards the drain port is suggested. The fireplace can be shimmed level.



Hearths should slope away from the front of the fireplace and chase at 1/8 in. to 1/4 in. per foot. Spark strips must be on top of any combustible hearth materials used for moisture management.

B. Tools and Supplies Needed


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

Reciprocating saw	Framing material
Pliers	Hi temp caulking material
Hammer	Gloves
Phillips screwdriver	Framing square
Flat blade screwdriver	Electric drill and bits (1/4 in.)
Plumb line	Safety glasses
Manometer	Voltmeter
Tape measure	Level
Non-corrosive leak check solution	
1/2 - 3/4 inch length, #6 or #8 Self-drilling screws	
2-"D" Cell Batteries	

C. Inspect Appliance and Components

	WARNING Inspect appliance and components for damage. Damaged parts may impair safe operation.
	<ul style="list-style-type: none">• Do NOT install damaged components.• Do NOT install incomplete components.• Do NOT install substitute components. Report damaged parts to dealer.

- Carefully remove the appliance and components from the packaging.
- The gas logs may be packaged separately and must be field 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 Hearth & Home Technologies disclaims any responsibility for, and the warranty will be voided by, the following actions:
	<ul style="list-style-type: none">• 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.	

3 Framing and Clearances

Note:

- 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.

A. Select Appliance Location

When selecting a location for your appliance it is important to consider the required clearances to walls (See Figure 3.1).



WARNING



Fire Risk

Provide adequate clearance:

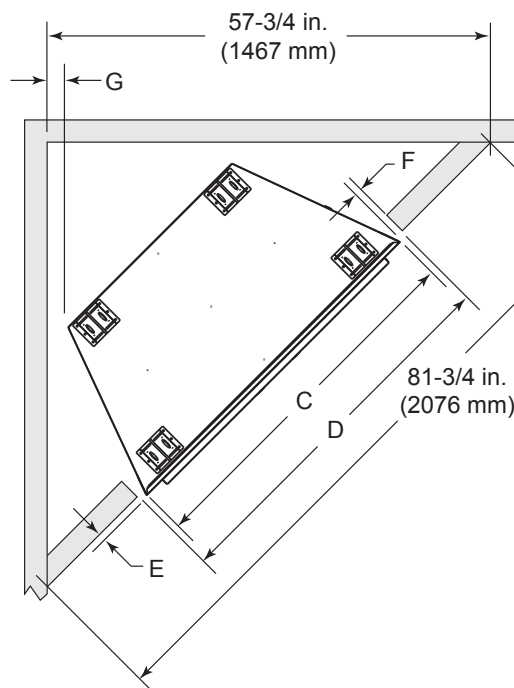
- Around air openings.
- To combustibles.
- For service access.

Locate appliance away from traffic areas.

Note: For actual appliance dimensions refer to Section 13.

Note: If this surface is inside the building's warm air envelope...

...then this surface must be an exterior wall system.



	A	B	C	D	E	F	G
in.	24-3/4	24-1/8	48	49	5/8	1/2	1-1/2
mm	629	613	1219	1245	16	13	38

Figure 3.1 Appliance Locations



WARNING



Fire Risk Odor Risk

- Install appliance on hard metal or wood surfaces extending full width and depth of appliance.
- Do NOT install appliance directly on carpeting, vinyl, tile or any combustible material other than wood.



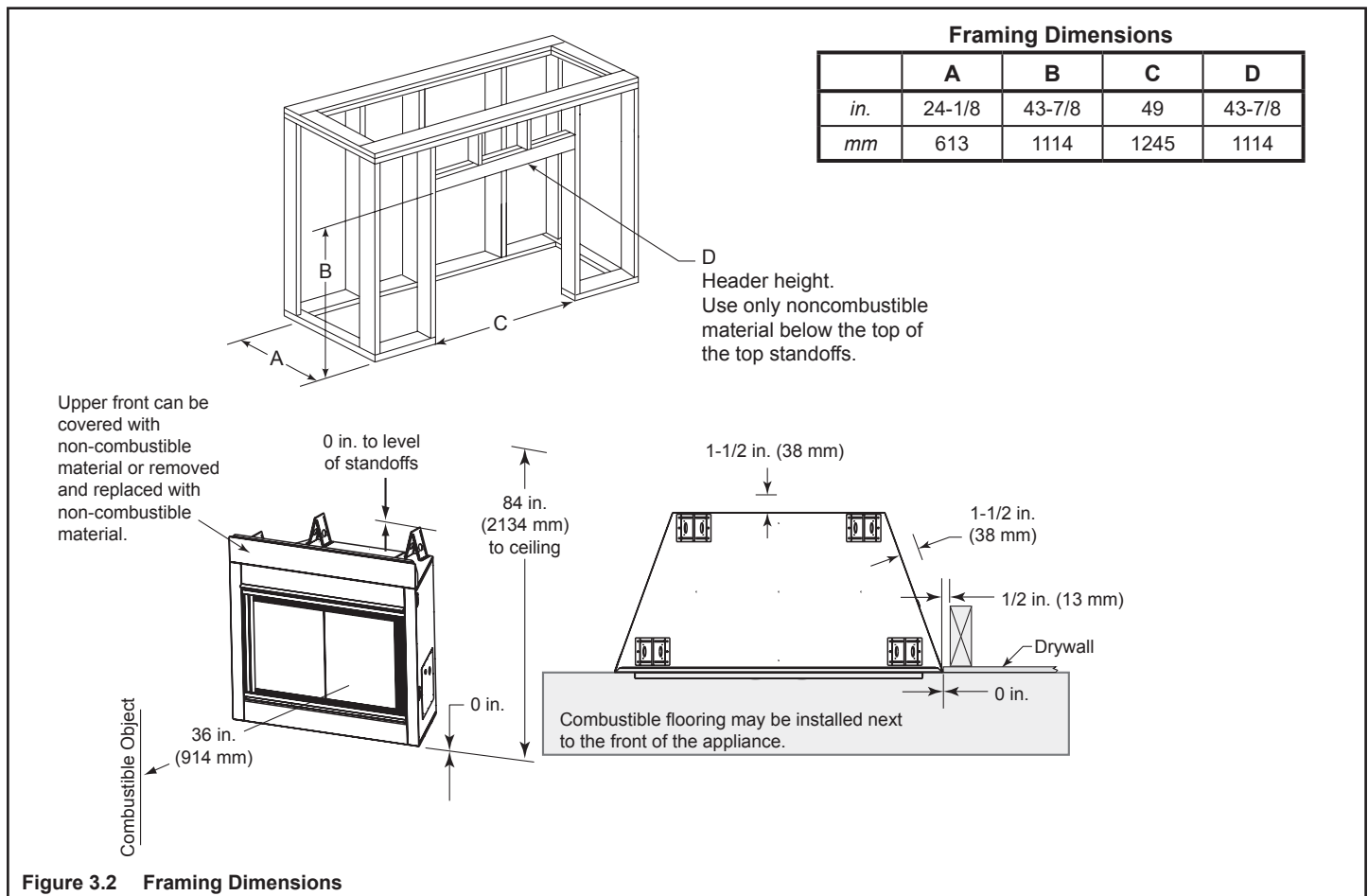
WARNING



Fire Risk

- Locate and install appliance to all clearance specifications in manual.

B. Clearances



C. Mantel Projections



⚠ WARNING

Fire Risk

- Comply with all minimum clearances to combustibles as specified.
- Framing or finishing material used on the front of, or in front of, the appliance closer than the minimums listed, must be constructed entirely of noncombustible materials (i.e., steel studs, concrete board, etc.).

Failure to comply may cause fire.

	If A is:	Then B must be at least:
<i>in.</i>	6 - 36	26
<i>mm</i>	152 - 914	660
<i>in.</i>	36 or more	18
<i>mm</i>	914 or more	457

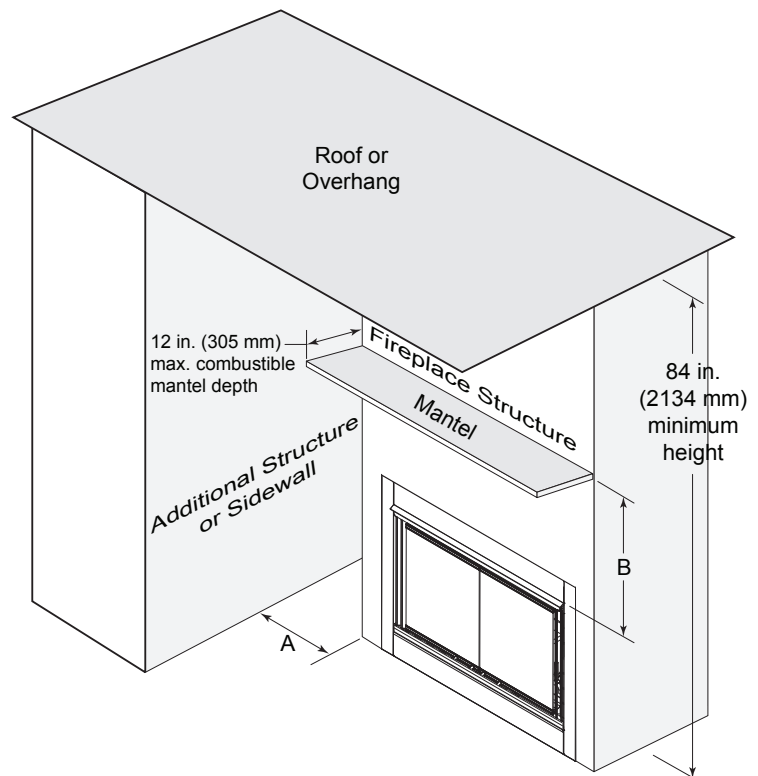
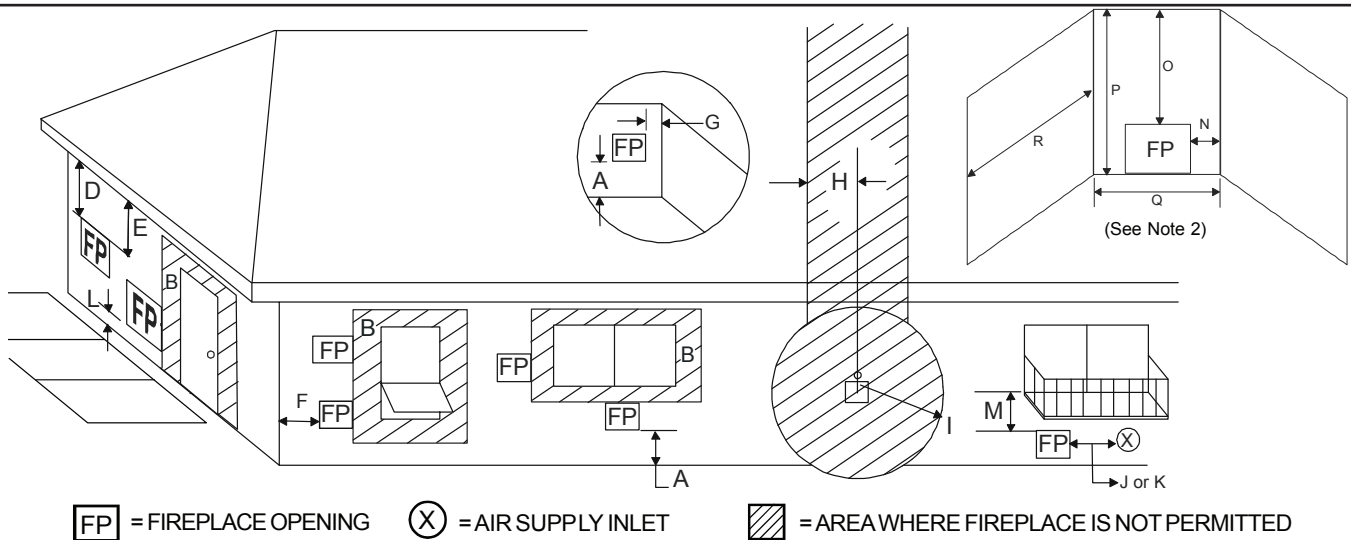


Figure 3.3 Clearances to Mantels or Other Combustibles Above Appliance

4 Termination Locations

A. Vent Termination Minimum Clearances



- A = 0 in. clearances above grade, veranda, porch, deck or balcony.
- B = 12 in. clearances to window or door that may be opened, or to permanently closed window.
- D** = 36 in. vinyl windows or siding.
47 in. vertical clearance to unventilated soffit or to ventilated soffit located above the terminal.
- F = 60 in. vinyl clad soffits.
- F = 9 in. clearance to outside corner.
- G* = 6 in. clearance to inside corner.
- H = 48 in. vinyl windows or siding.
3 ft. (Canada) not to be installed above a gas meter/regulator assembly within 3 ft (914 mm) horizontally from the center line of the regulator.
- I = 3 ft. (USA)
6 ft. (Canada) clearance to service regulator vent outlet and electric service.

- J = 9 in. (USA)
12 in. (Canada) clearance to non-mechanical air supply inlet to building or the combustion air inlet to any other appliance.
- K = 3 ft. (USA)
6 ft. (Canada) clearance to a mechanical air supply inlet.
- L*** = 54 in. clearance above paved sidewalk or a paved driveway located on public property.
(See note 1)
- M**** = 47 in. clearance under veranda, porch, deck, balcony or overhang.
- Not allowed: vinyl
- N = 6 in. non-vinyl siding.
- P = 84 in.

	Q _{MIN}	R _{MAX}
Dakota	10 feet	2 x Q _{ACTUAL}
1 additional termination cap	Q + 3 feet	1 x Q _{ACTUAL}
2 additional termination caps	Q + 6 feet	2/3 x Q _{ACTUAL}
3 additional termination caps	Q + 9 feet	1/2 x Q _{ACTUAL}
$R_{MAX} = (2 / \# \text{ caps plus fireplace }) \times Q_{ACTUAL}$		

- * 48 in. minimum for vinyl windows or vinyl siding.
- ** Not allowed for vinyl clad soffits.
- *** a fireplace shall not open directly above a sidewalk or paved driveway which is located between two single family dwellings and services both dwellings.
- **** only permitted if veranda, porch, deck or balcony is fully open on a minimum of 2 sides beneath the floor, or if the screened porch guidelines are followed.
- Note 1:** Local codes or regulations may require different clearances.
- Note 2:** Termination in an alcove space (spaces open only on one side and with an overhang) are permitted with the dimensions specified for vinyl or non-vinyl siding and soffits. **1)** There must be a 3 ft minimum between terminations or between the fireplace and termination. **2)** All mechanical air intakes within 10 ft of a termination must be a minimum of 3 ft below the fireplace hood. **3)** All gravity air intakes within 3 ft of the fireplace hood must be a minimum of 1 ft below the termination.

This fireplace is approved for installation onto screen porches with the following guidelines:

- Minimum porch area: 96 sq ft
- Minimum ceiling height: 84 in.
- Minimum of two walls must be screened
- Minimum top of screen height, side walls: 6 ft 8 in.
- Minimum screen area: 64 sq ft

Note 2: There may be some odor and small amounts of soot associated with burning the Dakota on a screened porch. Ensuring good cross draft ventilation and routine maintenance of the fireplace will maximize comfort and cleanliness.

Figure 4.1 Minimum Clearances

5 Appliance Preparation

CAUTION



Sharp Edges

- Wear protective gloves and safety glasses during installation.



A. Remove Logs and Shipping Cover

Remove locking screw at the top of the doors (shown in Figure 5.1).

Open the doors by sliding the handles toward the outside edges of the doors. Remove the cartons of logs from their shipping location in the appliance.

Set the logs and door lock bracket screw aside for later re-installation.

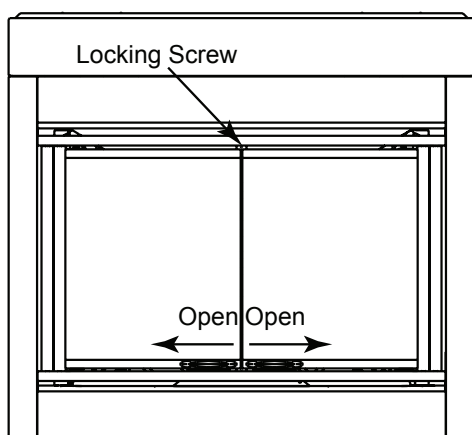


Figure 5.1 Door Operation

B. Securing and Leveling Appliance



WARNING



Fire Risk

- Prevent contact with sagging, loose insulation.
- Do NOT install against vapor barriers or exposed insulation.

The diagram shows how to properly position, level, and secure the appliance (see Figure 5.2). Nailing tabs are provided to secure the appliance to the framing members.

- Place the appliance into position on either a combustible or non-combustible continuous flat surface.
- **Note:** Remove the top standoffs before sliding appliance into position if using an FPS prefab enclosure.
- Level the appliance from side to side and front to back.
- Shim the appliance with non-combustible material, such as sheet metal, as necessary.
- Bend out nailing tabs on each side.
- Keep nailing tabs flush with the framing.
- Secure the appliance to the framing by using nails or screws through the nailing tabs.

Upper front can be covered with non-combustible material or removed and replaced with non-combustible material.

NAILING TABS

Figure 5.2 Proper Positioning, Leveling and Securing of an Appliance

CAUTION

Do NOT notch into the framing around the appliance spacers.

6 Gas Information



A. Fuel Conversion

Before making gas connections ensure appliance being installed is compatible with the available gas type.

Any natural or propane gas conversions necessary to meet the appliance and locality needs must be made by a qualified technician using Hearth & Home Technologies specified and approved parts.

B. Gas Pressure

Proper input pressures are required for optimum appliance performance. Gas line sizing requirements need to be made following **NFPA51**.





WARNING

Fire Risk
Explosion Risk

High pressure will damage valve.

- 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.



WARNING

Fire Risk
Explosion Risk

Verify inlet pressures.

- High pressure may cause overfire condition.
- Low pressure may cause explosion.

Install regulator upstream of valve if line pressure is greater than 1/2 psig.

Pressure requirements for appliance are shown in table below.

Pressure	Natural Gas	Propane
Minimum Inlet Pressure	5.0 inches w.c.	11.0 inches w.c.
Maximum Inlet Pressure	7.0 inches w.c.	14.0 inches w.c.
Manifold Pressure	3.5 inches w.c.	10.5 inches w.c.

These pressures can be verified through the internal valve access panels as shown in Section E. Valve Access.

C. Gas Connection

Note: Have the gas supply line installed in accordance with local building codes, if any. If not, follow **ANSI 223.1**. 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 in. (13 mm) T-handle manual shut-off valve and flexible gas connector are connected to the 1/2 in. (13 mm) control valve inlet.

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

Optional: A 5 ft flexible gas line is available to those regions which do not require black pipe to be used. See Service Parts List (Section 13).

Note: Gas line **MUST** be run from right side of appliance.

- Remove the two factory-installed screws holding the outer shell valve cover to the right side of the appliance.
- Lift the cover off and set it and the two screws aside.
- Install the gas line.
- Replace the valve cover using the two screws removed and six more from the fastener pack.






WARNING

Gas Leak Risk





- Support control when attaching pipe to prevent bending gas line.




Note: The gap between supply piping and gas access hole may be plugged with non-combustible unfaced insulation to prevent cold air infiltration.

- Ensure that gas line does not come in contact with outer wrap of appliance. Follow local codes.
- Incoming gas line should be piped into the valve compartment and connected to the 1/2 in. connection on the manual shutoff valve.

 WARNING	
	Fire Risk
	Explosion Risk
	<ul style="list-style-type: none"> • Gas build-up during line purge may ignite. • Purge should be performed by qualified technician. • Ensure adequate ventilation. • Ensure there are no ignition sources such as sparks or open flames.

- A small amount of air will be in the gas supply lines. When first lighting 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	
	CHECK FOR GAS LEAKS
	Fire Risk
	Explosion Risk
	Asphyxiation Risk
	<ul style="list-style-type: none"> • Check all fittings and connections. • Do not use open flame. • After the gas line installation is complete, all connections must be tightened and checked for leaks with a commercially available, non-corrosive leak check solution. Be sure to rinse off all leak check solution following testing.
	Fittings and connections may have loosened during shipping and handling.

 WARNING	
	Fire Risk
	Explosion Risk
	Do NOT change the valve settings.
	<ul style="list-style-type: none"> • This valve has been preset at the factory. • Changing valve settings may result in fire hazard or bodily injury.

D. High Altitude Installations

U.L. listed gas appliances are tested and approved without requiring changes for elevations from 0 to 2000 ft in the USA and Canada.

When installing this appliance at an elevation above 2000 ft, it may be necessary to decrease the input rating by changing the existing burner orifice to a smaller size. Input rate should be reduced by 4% for each 1000 ft above a 2000 ft elevation in the U.S.A., or 10% for elevations between 2000 and 4500 ft in Canada. If the heating value of the gas has been reduced, these rules do not apply. To identify the proper orifice size, check with the local gas utility.

If installing this appliance at an elevation above 4500 ft (in Canada), check with local authorities.

E. Valve Access After Installation

- The gas valve can be accessed after installation from behind the cement refractory panel on the right side of the fireplace.
- Lift doors out and set aside. There is a washer under each door. Be careful not to lose those washers.

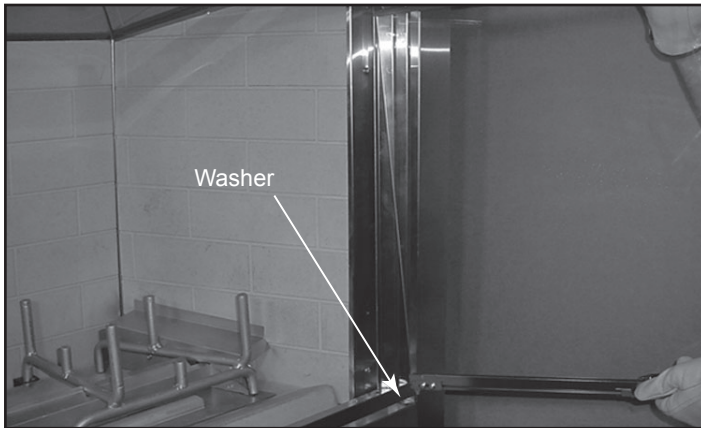


Figure 6.1 Lift Out Doors

- Remove logs if access is necessary after installation is complete. See Section 9.C. Remove logs in reverse order of set up.
- Remove grate if access is necessary after installation is complete. (Refer to Section 9.B.)
- Remove two screws on side of pilot shield and remove shield.



Figure 6.2 Remove Pilot Shield

- Use a Phillips screwdriver to remove the two screws securing the refractory retaining strip. Remove the refractory side panel and set aside.



Figure 6.3 Loosen Refractory Retaining Strip

- Remove the inside valve access panel by lifting it up and out.



Figure 6.4 Remove Valve Access Panel

- Use a Phillips screwdriver to remove the exterior valve access panel (remove four screws).

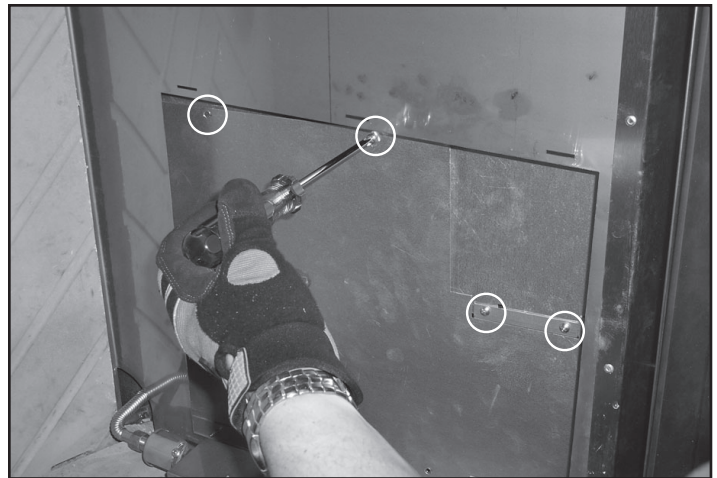


Figure 6.5 Remove Exterior Valve Access Panel

- Use a manometer on the lower out pressure tap. Start up the fireplace to verify the pressure and adjust as necessary. Reverse these steps to reassemble before log positioning.

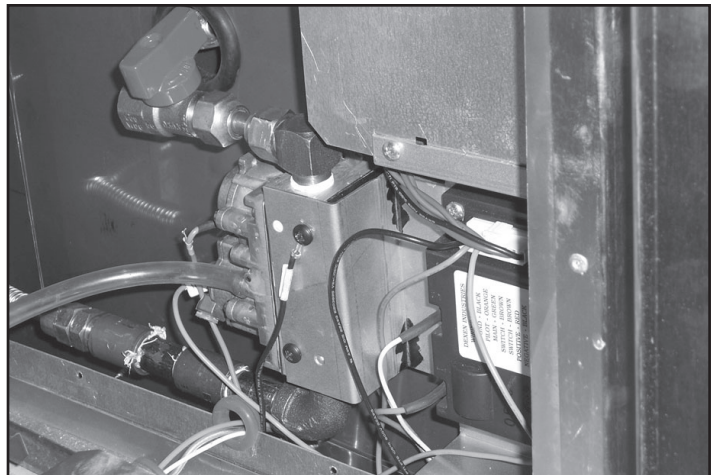


Figure 6.6 Connect Manometer

7 Electrical Information

A. Intellifire Ignition System Wiring

- This appliance is equipped with an Intellifire control valve which operates on a 3 volt system.
- This appliance is supplied with a battery pack which is located in the ON/OFF switch terminal box. A wiring diagram is shown in Figure 7.1.
- The battery pack requires two D cell batteries (not included). See Section 12.B. for battery replacement.

CAUTION

Battery polarity must be correct or module damage will occur.

WARNING

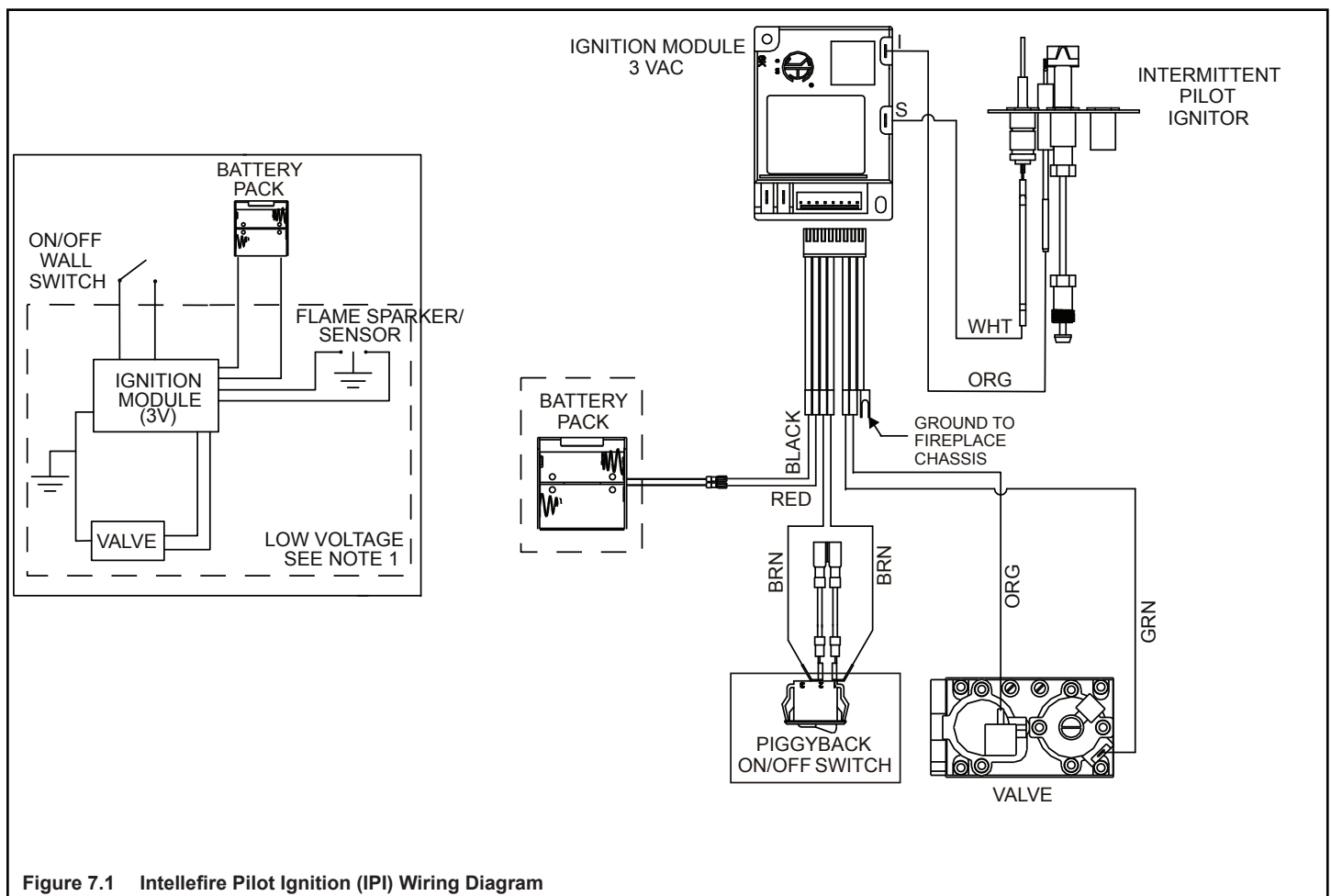


Shock Risk

- Replace damaged wire with type 105° C rated wire.
- Wire must have high temperature insulation.

CAUTION

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



8 Finishing

A. Mantel Projections

Figure 8.1 shows the minimum vertical dimension of appliance mantels or other combustible projections above the top front edge of the appliance.

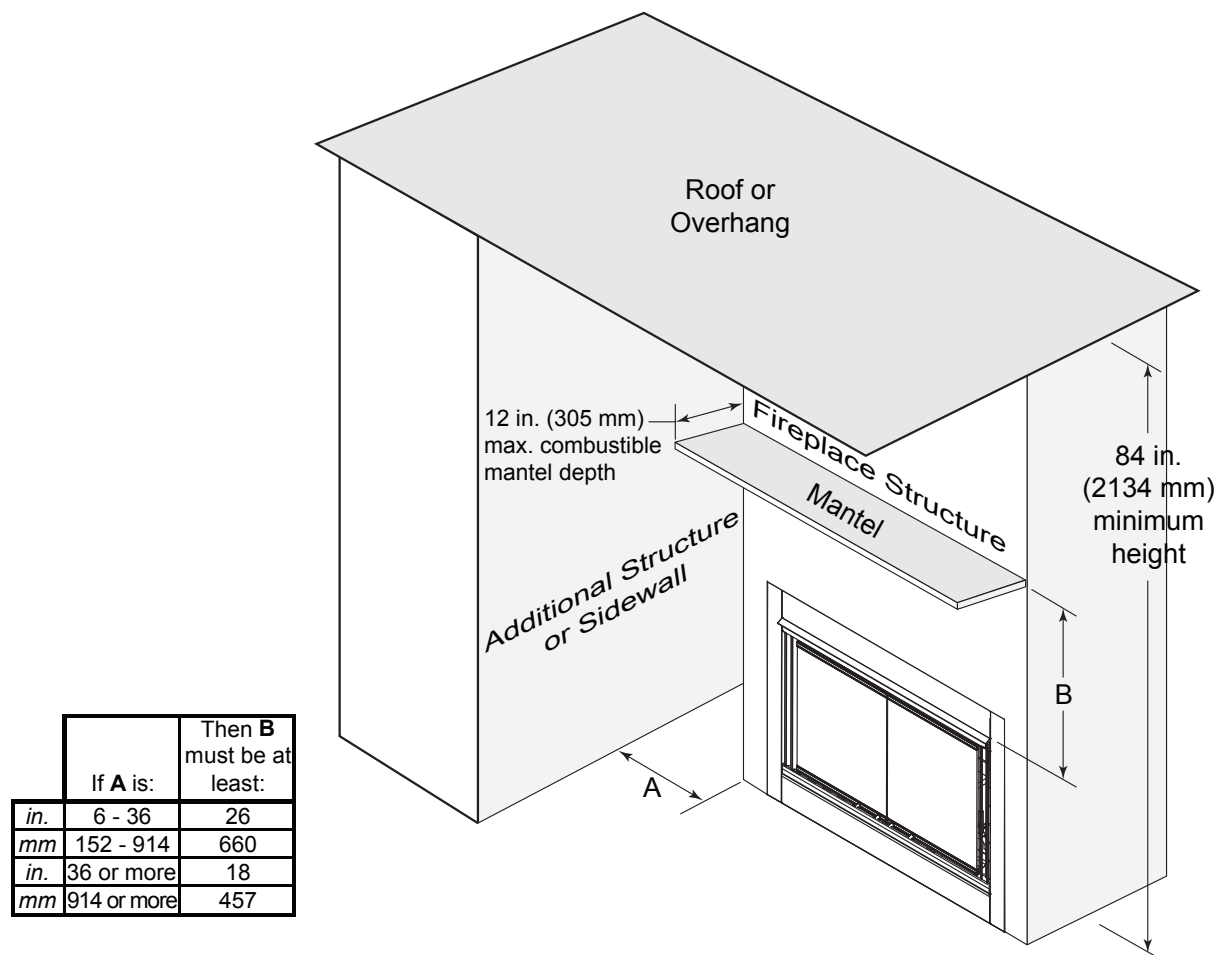


Figure 8.1 Clearances to Mantels or other Combustibles above Appliance.

B. Facing Material



WARNING

Fire Risk

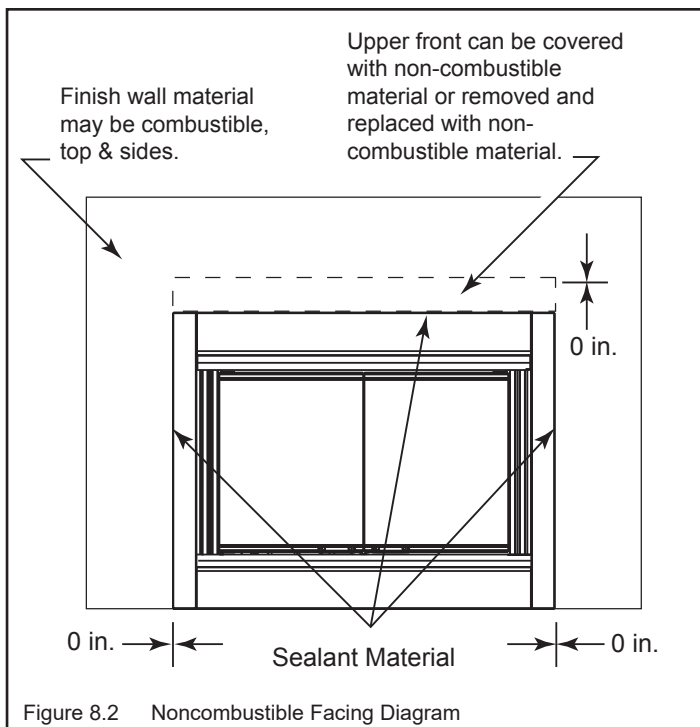
Do NOT obstruct air inlet or outlet grilles.

Do NOT modify grilles.

- Modifying or covering grilles could cause temperature rise and fire hazard.

Finishing materials must not interfere with:

- Air flow through grilles or louvers.
- Operation of louvers or doors.
- Access for service.



WARNING

Fire Risk

Finish all edges and fronts to clearances and specifications listed in manual.

- Metal appliance front may be covered with non-combustible material only.
- Do NOT overlap combustible materials onto appliance front.
- Install combustible materials up to specified clearances on top front and side edges.
- Seal joints between the finished wall and appliance top and sides using only a 300° F minimum sealant.

9 Appliance Setup

A. Clean the Appliance

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



⚠ WARNING

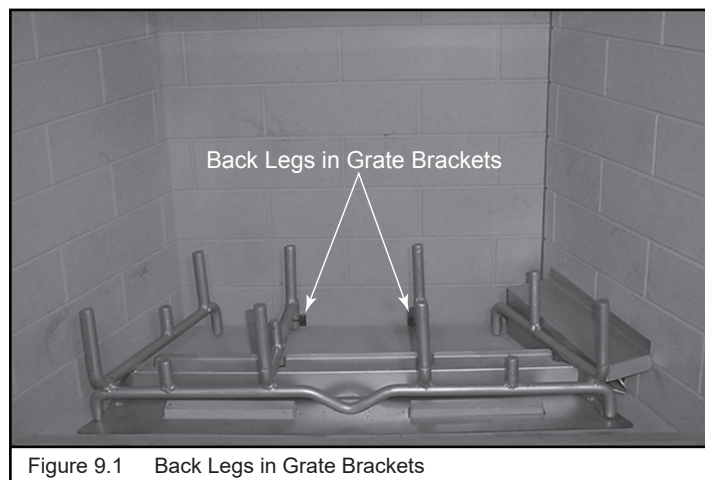
Shock Risk
Fire Risk

Use **ONLY** optional accessories approved for this appliance.

- Using non-listed accessories voids warranty.
- Using non-listed accessories may result in a safety hazard.
- Only Hearth & Home Technologies approved accessories may be used safely.

B. Grate Assembly Placement

- Ensure grate assembly is over burner assembly, centered from left to right, and back legs are in grate brackets (see Figure 9.1)

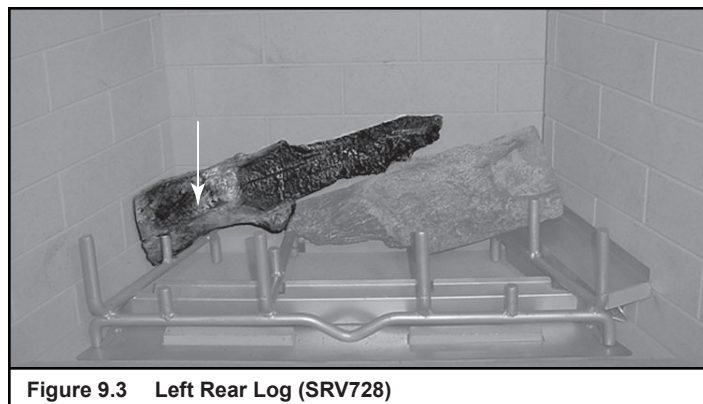


C. Positioning the Logs

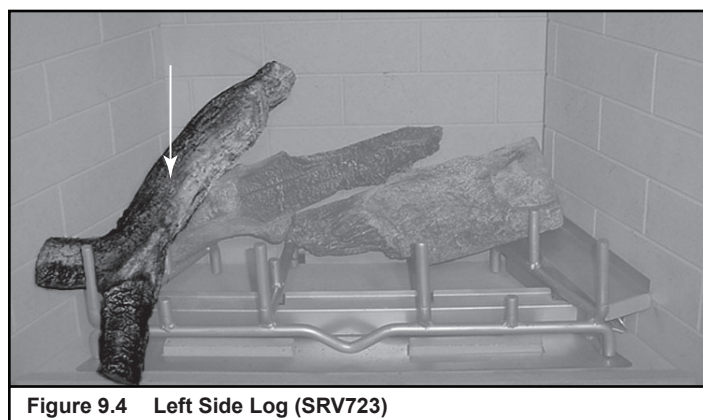
- See Section 13.B. for log descriptions and illustrations.
- Place right rear log on the grate against the appliance right side wall.



- Place the left rear log on the grate against the left wall and rest it on log.



- Place the fork of log onto the left front bar and rest its back on right rear log.



- Place front log in front of the main grate with its left end resting on left rear log as shown.



Figure 9.5 Front Log (SRV727)

- Place right log against the rightmost front grate bar and rest its rear on right rear log, angled towards the corner as shown.



Figure 9.8 Right Side Log (SRV740)

- Place front left log between locating bars so it rests against log left side log and on top of front log.

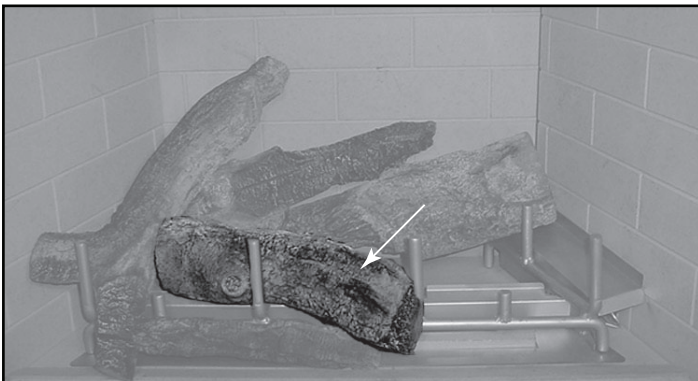


Figure 9.6 Front Left Log (SRV722)

- Place right front corner log between the right hand side wall and right hand side grate bar as shown.



Figure 9.9 Right Front Corner Log (SRV742)

- Place right center log between the 4th and 5th vertical bars on the log grate, resting the back on right rear log.



Figure 9.7 Front Right Log (SRV724)

D. Glass Assembly



WARNING

Handle glass with care.

- Inspect the glass for cracks, chips or scratches.
- Do NOT strike, slam or scratch glass.
- Do NOT operate appliance with glass door removed, cracked, broken or scratched.
- Replace glass door assembly as a complete assembly.

- The glass doors are included with and pre-installed in the appliance.
- To adjust doors, open them and loosen screws on top and bottom pivot pins. Slide each door as necessary and tighten screws.
- To adjust handle, loosen screws to move handles as necessary and tighten screws.

Glass Specifications

Dakota42-B: Tempered
Dakota42L-B: Tempered
Dakota42H-B: Tempered
Dakota42HL-B: Tempered

E. Placing Lava Rock

- After logs have been placed spread part of the lava rock (included) between the rock pan and ashlip (see Figure 9.10).

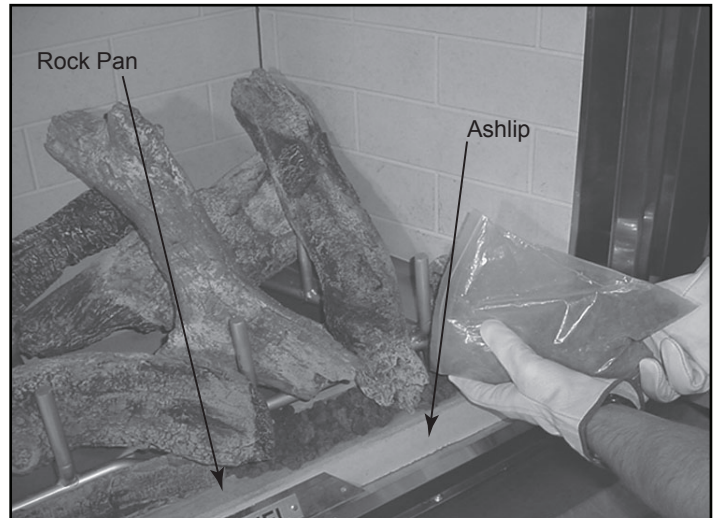


Figure 9.10 Placement of Lava Rocks

F. Reinstall Door Lock

When logs and lava rock have been installed, or if the glass assembly has been adjusted, reinstall the door lock by inserting the screw at the top of the door. Tighten screw. You may refer to Section 5.A. if needed.

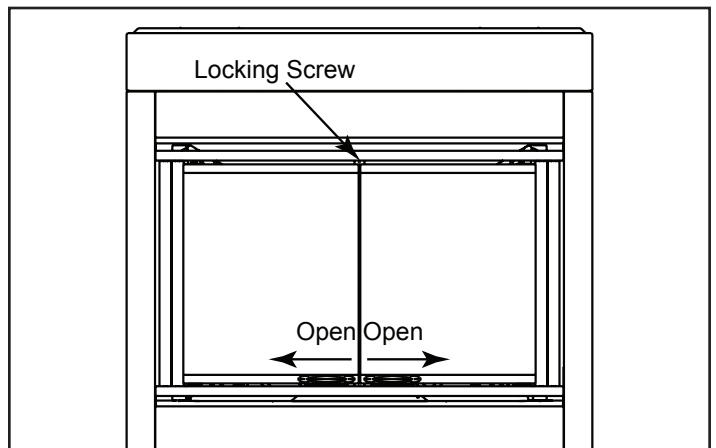


Figure 9.11 Reinstall Door Lock

10 Operating Instructions

A. Before Lighting Appliance

Before operating this appliance, have a qualified technician:

- Remove all shipping materials from inside and/or underneath the firebox.
- Review proper placement of logs, rockwool, lava rock and vermiculite.
- Check the wiring.
- Check the air shutter adjustment.
Shutter should be closed for natural; mostly open for LP.
- Ensure that there are no gas leaks.
- Ensure that the flow of combustion and ventilation air is not obstructed (front grilles).

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 appliance.
- Alert children and adults to hazards of high temperatures.

High temperatures may ignite clothing or other flammable materials.

- Keep clothing, furniture, draperies and other combustibles away.

WARNING

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

WARNING

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.

B. Lighting the Appliance

Intellifire Ignition

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 intermittent pilot ignition (IPI) device which automatically lights the burner. Do not try to light the burner 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.
 - If you cannot reach your gas supplier, call the fire department.
 - C.** 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.

WARNING:

DO NOT CONNECT 110 VAC TO THE CONTROL VALVE.

Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to the owner's information manual provided with this appliance.

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

If not installed, operated, and maintained in accordance with the manufacturer's instructions, this product could expose you to substances in fuel or fuel combustion which are known to the State of California to cause cancer, birth defects, or other reproductive harm.

Keep burner and control compartment clean. See installation and operating instructions accompanying appliance.

CAUTION:

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

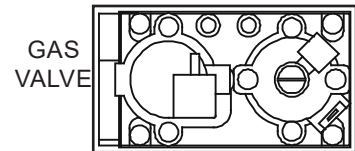
Do not operate the appliance with panel(s) removed, cracked or broken. Replacement of the panel(s) should be done by a licensed or qualified service person.

NOT FOR USE WITH SOLID FUEL

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

LIGHTING INSTRUCTIONS

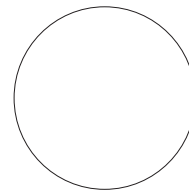
1. Turn off wall switch.
2. This appliance is equipped with an ignition device which automatically lights the burner. Do not try to light the burner by hand.



3. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the Safety Information located on the left side of this label. If you don't smell gas, go to next step.
4. Turn on wall switch.
5. To light the burner, flip the ON/OFF switch to the "ON" position. (The ON/OFF switch may include a wall switch if so equipped).
6. If the appliance will not operate, check battery then 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 all electric power to the appliance if service is to be performed.
2. Flip ON/OFF switch to the "OFF" position.



Final Inspection by _____

C. After the Appliance is Lit

Initial Break-in Procedure

When you light the appliance, you may notice that it produces heat which does have an associated odor or smell. If you feel this odor is excessive it may require the initial three to four hour continuous burn on high followed by a second burn up to 12 hours to fully drive off any odor from paint and lubricants used in the manufacturing process. Condensation of the glass is normal

Note: This appliance should be run three to four hours on the initial start-up. Turn it off and let it cool completely. Remove and clean the glass. Replace the glass and run the appliance for an additional 12 hours. This will help cure the products used in the paint and logs.

CAUTION

- Prevent accidental appliance operation when not attended.
- Unplug or remove batteries from remote switch if absent or if appliance will not be used for an extended period of time.
- Property damage possible from elevated temperatures.

CAUTION

Smoke and odors are released during initial operation.
Smoke and odors may be irritating to sensitive individuals.



WARNING

Fire Risk

High Temperatures

Keep combustible household items away from appliance.

Do NOT obstruct combustion and ventilation air.

- Do NOT place combustible items on top of or in front of appliance.
- Keep furniture, draperies away from appliance.



WARNING

Fire Risk

Keep combustible materials, gasoline and other flammable vapors and liquids clear of appliance.

- Do NOT store flammable materials in the vicinity of the appliance.
- Do NOT use gasoline, lantern fuel, kerosene, charcoal lighter fluid or similar liquids in this appliance.

Combustible materials may ignite.

D. 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 the paint and the burning off of any oils remaining from manufacturing.
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 to remove deposits left by oils from the manufacturing process. A non-abrasive cleaner such as gas fireplace 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 fireplace.
Is it normal to see the pilot flame burn continually?	In an Intellifire ignition system it is normal to see the pilot flame, but it should turn off when ON/OFF is turned off. In a standing pilot system the pilot will always stay on.

11 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 service person in the diagnosis of a problem and the corrective action to be taken. This troubleshooting guide can only be used by a qualified service technician.

A. Intellifire Ignition System

Symptom	Possible Causes	Corrective Actions
1. 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 the correct terminals on the module and the pilot assembly. Reversed wires at the module may cause the system to make a sparking noise, but the spark may not be present at pilot hood.
	B. Loose connections or electrical shorts in the wiring.	Verify there are no loose connections or electrical shorts in wiring from module to pilot assembly. The rod closest to the pilot hood should be ignitor. Verify connections underneath pilot assembly are tight; also verify the connections are not grounding out to the 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 pilot hood. The gap should be approximately .17 in. or 1/8 in.
	D. Faulty 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. Hold ground wire about 3/16 in. away from "I" terminal on module. 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.
2. Pilots won't light, there is no noise or spark.	A. Dead Batteries	Check or replace D cell batteries.
	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.
	C. Improper wall switch wiring.	Verify wall switch is wired correctly.
	D. Module not grounded.	Verify black ground wire from module wire harness is grounded to metal chassis of appliance.
	E. Faulty 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. Hold ground wire about 3/16 in. away from "I" terminal on module. 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 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 sensor 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 sensor rod.	Verify flame is engulfing sensor rod. If the pilot assembly does not have a ground strap, consider installing one to increase flame rectification. Verify correct pilot orifice is installed and inlet gas specifications are met. Flame carries rectification current, not the gas. If flame lifts from pilot hood, the circuit is broken. A wrong orifice or too high an inlet pressure can cause pilot flame to lift. The sensor rod may be contaminated. Clean sensor rod with emery cloth.
	C. Module is not grounded.	Verify that module is securely grounded to metal chassis of appliance. Verify that the wire harness is firmly connected to module.
	D. Damaged pilot assembly or dirty sensor rod.	Verify that ceramic insulator around the sensor rod is not cracked, damaged, or loose. Verify connection from sensor rod to white sensor wire. Clean sensor rod with emery cloth to remove any contaminants that may have accumulated on sensor rod. Verify continuity with a multimeter with ohms set at lowest range.
	E. Faulty 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. Hold ground wire about 3/16 in. away from "I" terminal on module. 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.
4. Pilot sparks, but pilot will not light.	A. Correct 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 too large.	Verify that spark gap from ignitor to pilot hood is .17 in. or 1/8 in.
	C. Module is not grounded.	Verify module is securely grounded to metal chassis of appliance.
	D. Module voltage output/ valve/pilot solenoid ohms readings.	Replace module.

12 Maintaining and Servicing the Appliance

Although the frequency of appliance servicing and maintenance will depend on use and the type of installation, a qualified service technician should perform an appliance check-up at the beginning of each heating season.

WARNING

Risk of injury or property damage

Before servicing:

- Turn off gas.
- Turn off electricity to appliance.
- Disable remote control, if one is present.
- Ensure appliance is completely cooled.

After Servicing:

- Replace any screen or barrier that was removed.
- Reseal and reinstall any venting removed for servicing.

WARNING



Annual inspection by qualified technician recommended.

Check:

- Condition of doors, surrounds and fronts.
- Condition of glass, glass assembly and glass seal.
- Obstructions of combustion and ventilation air.
- Condition of logs.
- Condition of firebox.
- Burner ignition and operation.
- Burner air shutter adjustment.
- Gas connections and fittings.
- Obstructions of termination cap.

Clean:

- Glass.
- Air passageways, grilles, control compartment.
- Burner, burner ports.

Risk of:

- Fire
- Delayed ignition or explosion
- Exposure to combustion fumes
- Odors

CAUTION



Handle glass assembly with care.

Note: Clean glass after initial 3-4 hours operation. **Longer operation without cleaning glass may cause a permanent white film on glass.**

When cleaning glass door:

- Avoid striking, scratching or slamming doors.
- Do NOT use abrasive cleaners.
- Use a hard water deposit glass cleaner on white film.
- Do NOT clean glass when it is hot.
- Turn off appliance after 3-4 hours of operation and ALLOW TO COOL.
- Remove and clean glass assembly.
- Replace glass assembly and operate appliance for an additional 12 hours.

Refer to maintenance instructions.

WARNING



Fire Risk

Explosion Risk

Inspect external vent cap regularly.



- Ensure no debris blocks cap.
- Combustible materials blocking cap may ignite.
- Restricted air flow affects burner operation.

A. Valve Service and Replacement

Tools Required

Phillips screwdriver

7/16 in., 5/8 in., 13/16 in., 15/16 in. wrenches



Figure 12.1 Tools Required

- The valve can be accessed through the valve access panel on the right side of the fireplace.
- Lift doors out and set aside.
- Remove grate and pilot shield (see Figure 6.2).

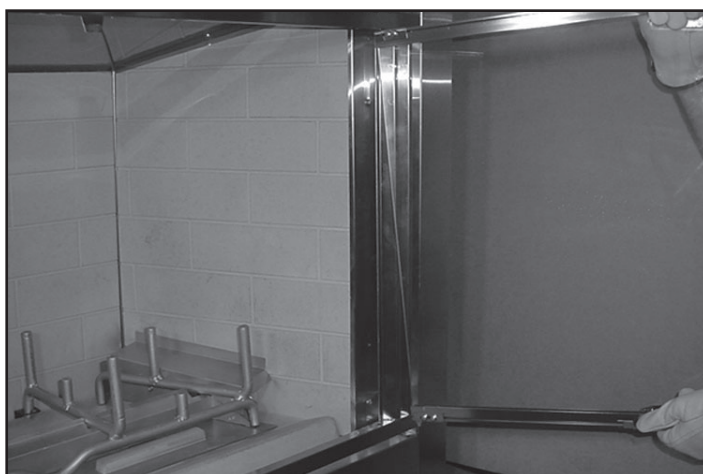


Figure 12.2 Lift Out Doors

- Use a phillips screwdriver to remove the right refractory by removing the two screws securing the refractory retaining strip. Remove the refractory side panel and set aside.



Figure 12.3 Loosen Refractory Retaining Strip

- Remove the inside valve access panel by lifting it up and out.



Figure 12.4 Remove Valve Access Panel

- Using a phillips screwdriver remove the exterior valve access panel.

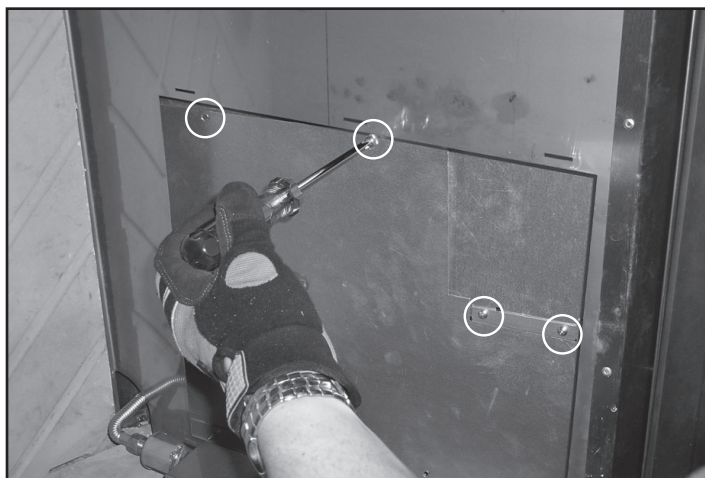


Figure 12.5 Remove Exterior Valve Access Panel

- Turn the gas ball valve off and disconnect the gas line after the ball valve by loosening the flare nut using a 13/16 in. and a 15/16 in. wrench.



Figure 12.6 Turn off Gas Valve

- Using two 3/4 in. wrenches, disconnect the burner supply tube.

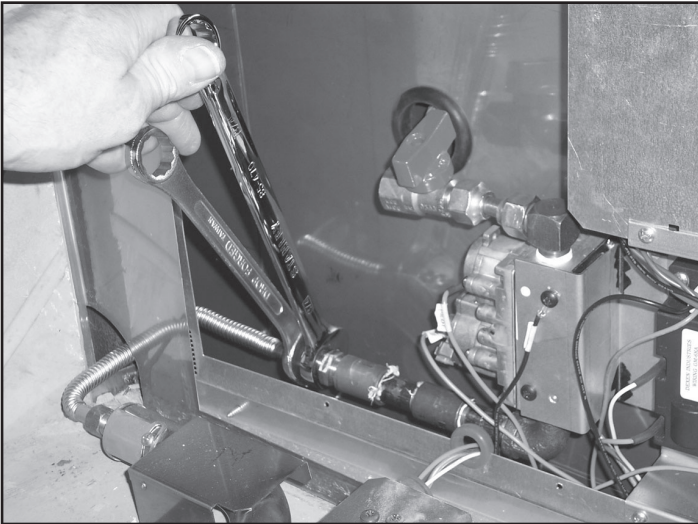


Figure 12.7 Disconnect Burner Supply Tube

- Remove the two screws securing the valve to the valve bracket.

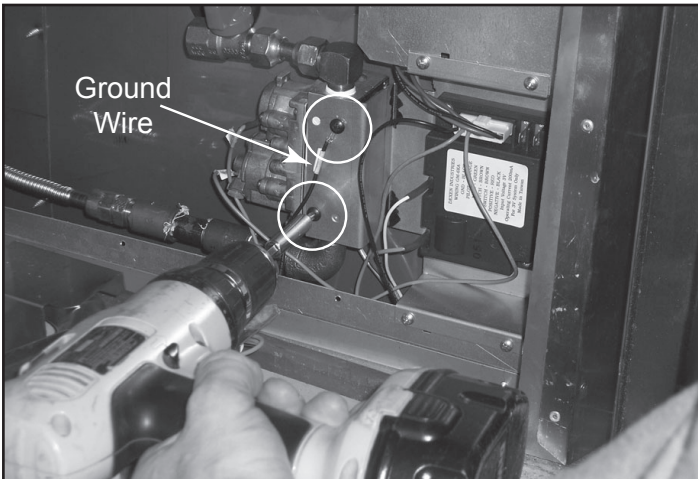


Figure 12.8 Remove Valve from Valve Bracket

- Disconnect the pilot and orifice tubes using a 7/16 in. and a 5/8 in. wrench.
- Reverse these steps to replace the gas valve and covers. Make sure the ground wire is reattached as shown in Figure 12.8.

B. Battery Replacement

- Remove switch cover plate from the wall.

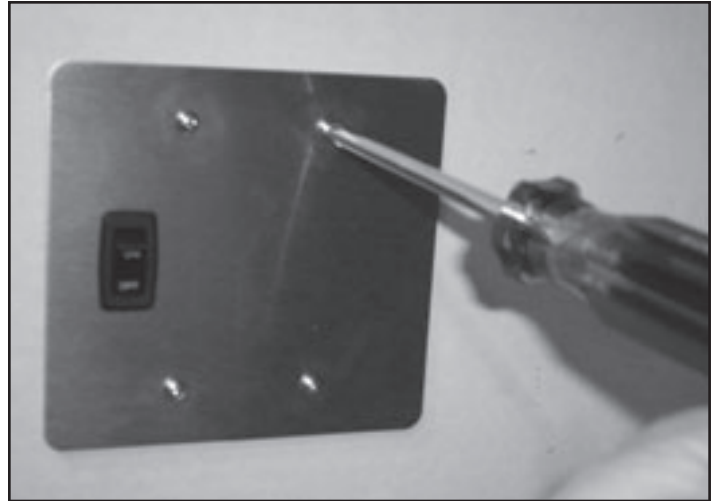


Figure 12.9 Switch Cover Plate

- Replace two D-cell batteries.



Figure 12.10 Batteries

- Replace switch cover plate.

B. Maintenance and Service Tasks:

Inspect	Maintenance Tasks
Doors, surrounds and fronts	1 Inspect for scratches and nicks that can lead to breakage when exposed to heat.
	2 Verify no obstructions to airflow through the louvers.
	3 Verify proper clearance to combustible household objects is maintained.
Glass assembly and glass	1 Inspect glass panels for scratches and nicks that can lead to breakage when exposed to heat.
	2 Confirm there is no damage to glass or glass frame. Replace as necessary.
	3 Verify that latches engage properly, clip studs are not stripped, and glass attachment components are intact and operating properly. Replace as necessary.
	4 Clean glass using a nonabrasive cleaner such as Brasso®. Replace glass assembly if severely coated with silicate deposits that cannot be removed.
Valve compartment and firebox top	1 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.
	2 Remove any foreign objects.
	3 Verify unobstructed air circulation.
Logs	1 Inspect for broken, damaged or missing logs. Replace as necessary.
	2 Verify correct log placement and no flame impingement causing sooting. Correct as necessary.
Firebox	1 Inspect for paint condition, warpage, corrosion or perforation. Sand and repaint as necessary.
	2 Replace appliance if firebox has been perforated.
Burner ignition and operation	1 Verify burner is properly secured and aligned with pilot or igniter.
	2 Clean off burner top, inspect for plugged ports, corrosion or deterioration. Replace burner if necessary.
	3 Replace rockwool with new dime-sized and shaped pieces. Do not block ports or obstruct lighting paths.
	4 Check for smooth lighting and ignition carryover to all ports. Verify there is no ignition delay.
	5 Inspect for lifting or other flame problems.
	6 Verify air shutter is clear of dust and debris.
	7 Inspect orifice for soot, dirt or corrosion.
	8 Verify manifold and inlet pressures. Adjust regulator as required.
	9 Inspect pilot flame strength. Clean or replace orifice as necessary.
	10 Inspect thermocouple/thermopile or IPI sensor rod for soot, corrosion and deterioration. Clean with emery cloth or replace as required.
	11 Verify millivolt output. Replace as necessary.
Batteries	1 Verify operation of batteries.
	2 Replace batteries if needed.

13 Reference Materials

A. Appliance Dimension Diagram

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

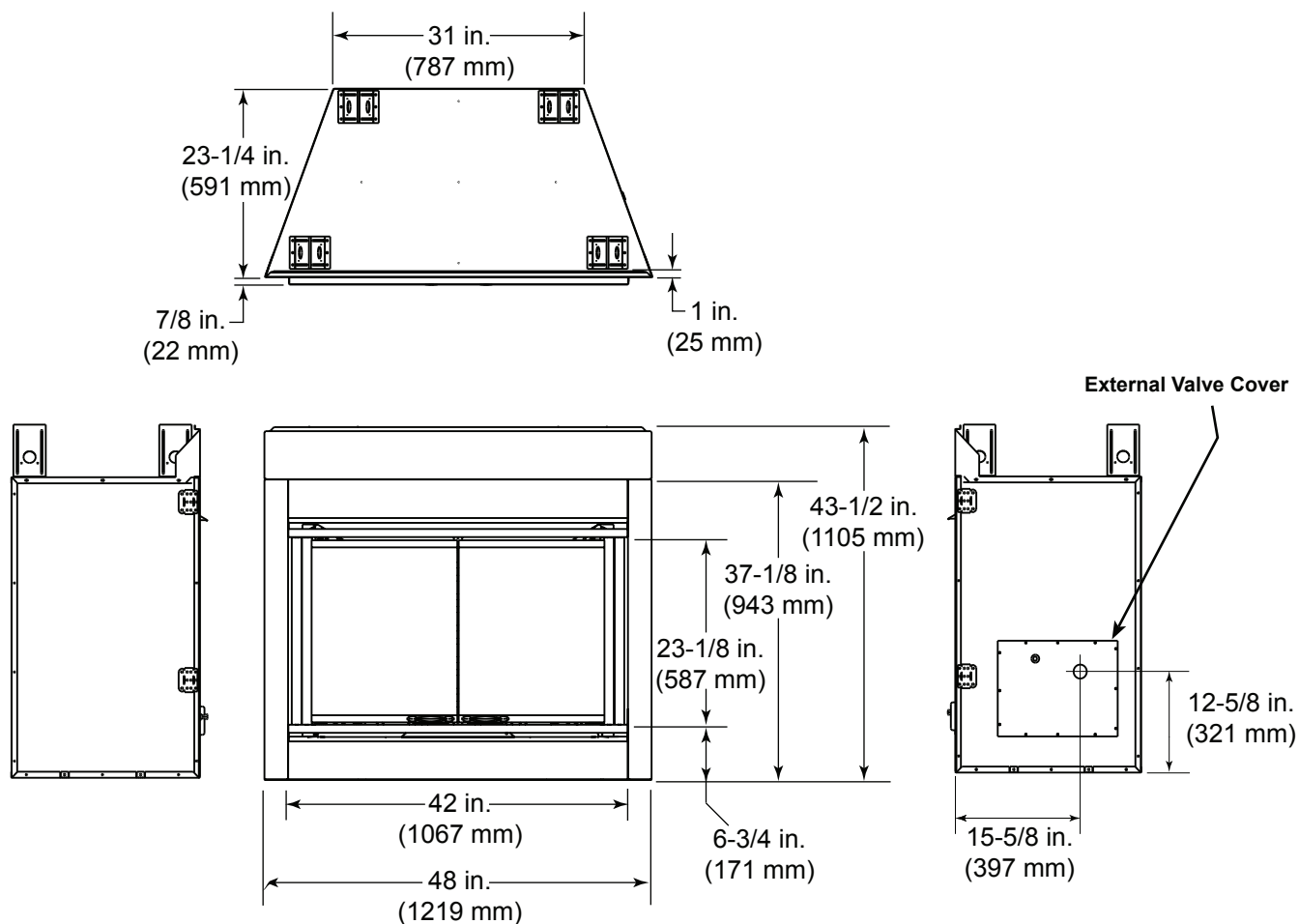


Figure 13.1 Appliance Dimensions

B. Accessories

1. ELEC-DAKOTA - Provides 110V power to unit instead of batteries.

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D. Warranty

Outdoor Lifestyles by Hearth & Home Technologies™ Warranty

Hearth & Home Technologies ("HHT") extends the following warranty for all Outdoor Lifestyles by HHT™ brand products ("Products") that are purchased from an HHT authorized dealer.

WARRANTY COVERAGE:

HHT warrants to the original owner of the Product at the site of installation, and to any transferee taking ownership of the Product at the site of installation within one year following the date of original purchase, that the Product will be free from defects in materials and workmanship at the time of manufacture. After installation, if covered components manufactured by HHT are found to be defective in materials or workmanship during the applicable warranty period, HHT will, at its option, repair or replace the covered components. This warranty is subject to conditions, exclusions and limitations as described below.

WARRANTY PERIOD:

The warranty period runs for one year, beginning on the earlier of: (i) the date of invoice for the Product; (ii) in the case of new home construction, the date of first occupancy of the residence or six months after the date of sale of the Product by an HHT authorized dealer, whichever occurs first; or (iii) the date 24 months following the date of Product shipment from HHT, regardless of the invoice or occupancy date.

WARRANTY CONDITIONS:

- This warranty only covers Products that are purchased through an HHT authorized dealer or distributor. A list of HHT authorized dealers is available on the HHT branded websites.
- This warranty is only valid while the Product remains at the site of original installation.
- Contact your installing dealer for warranty service. If the installing dealer is unable to provide necessary parts, contact the nearest HHT authorized dealer or supplier. Additional service fees may apply if you are seeking warranty service from a dealer other than the dealer from whom you originally purchased the Product.
- Check with your dealer in advance for any costs to you when arranging a warranty call. Travel and shipping charges for parts are not covered by this warranty.

WARRANTY EXCLUSIONS:

This warranty does not cover the following:

- Changes in surface finishes as a result of normal use. As a heating appliance, some changes in color of interior and exterior surface finishes may occur; this is not a flaw and not covered under warranty.
- Damage to printed, plated, or enameled surfaces caused by fingerprints, accidents, misuse, scratches, melted items, or other external sources and residues left on surfaces from the use of abrasive cleaners or polishes.
- Repair or replacement of parts that are subject to normal wear and tear during the warranty period. These parts include: paint, firebricks, grates, flame guides and the discoloration of glass.
- Minor expansion, contraction, or movement of certain parts causing noise. These conditions are normal and complaints related to this noise are not covered by this warranty.

D. Warranty (*continued*)

- Damages resulting from: (1) failure to install, operate, or maintain the Product in accordance with the installation instructions, operating instructions, and listing agent identification label furnished with the Product; (2) failure to install the Product in accordance with local building codes; (3) shipping or improper handling; (4) improper operation, abuse, misuse, continued operation with damaged, corroded or failed components, accident, or incorrectly performed repairs; (5) inadequate ventilation, negative pressure or environmental conditions, including, without limitation: hail, snow, ice, fallen branches, flooding, water damage and fading of color; (6) use of fuels other than those specified in the operating instructions; (7) installation or use of components not supplied with the Product or any other components not expressly authorized and approved by HHT; (8) modification of the Product not expressly authorized and approved by HHT in writing; and/or (9) interruptions or fluctuations of electrical power supply to the Product.
- Non-HHT venting components, hearth components or other accessories used in conjunction with the Product.
- Any part of a pre-existing fireplace system in which an insert or a decorative gas appliance is installed.
- The Product's capability to heat the desired space. Information is provided to assist the consumer and the dealer in selecting the proper appliance for the application. Consideration must be given to the Product's location and configuration and environmental conditions.

This warranty is void if:

- The Product has been over-fired or operated in atmospheres contaminated by chlorine, fluorine, or other damaging chemicals. Over-firing can be identified by, but not limited to, warped plates or tubes, rust colored cast iron, bubbling, cracking and discoloration of steel or enamel finishes and cracking or spalling of refractory or cementitious materials.
- The Product is subjected to prolonged periods of dampness, condensation, ice or snow.
- There is any damage to the Product or other components due to water or weather damage which is the result of, but not limited to, improper chimney or venting installation.

LIMITATIONS OF LIABILITY:

Repair or replacement in accordance with the provisions of this warranty will be the owner's exclusive remedy for and will constitute HHT's sole obligation under this warranty, under any other warranty (express or implied), or in contract, tort or otherwise; provided, however, that if HHT is unable to provide repair or replacement in an expedient and cost effective manner, HHT may discharge all such obligations by refunding the purchase price of the Product. No employee, agent, dealer, or other person is authorized to give any warranty on behalf of HHT. TO THE EXTENT ALLOWED BY LAW, HHT MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. HHT WILL NOT BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES ARISING OUT OF DEFECTS IN OR USE OF THE PRODUCTS. Some states do not allow exclusions or limitation of incidental or consequential damages, so these limitations may not apply to you. This warranty gives you specific rights; you also may have other rights, which vary from state to state. The duration of any implied warranty is limited to the duration of the warranty period specified herein.



E. Contact Information



Please contact your Outdoor Lifestyles dealer with any questions or concerns.

For the number of your nearest Outdoor Lifestyles dealer, please visit www.hearthnhome.com.

- NOTES -

CAUTION		
	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) 5601073, 5613487, 5647340, 5890485, 5941237, 6006743, 6019099, 6053165, 6145502, 6374822, 6484712, 6601579, 6769426, 6863064, 7077122, 7098269, 7258116, 7470729, 8147240 or other U.S. and foreign patents pending.