Installation/Owner's Manual

Installation and Appliance Setup, Care and Operation

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

***NOTICE: DO NOT** discard this manual!*

HEARTH & HOME technologies

Duzy Series
Vented Gas Log Set

Model(s):

RB-18-24NI

RB-18-24PI

RB-30NI

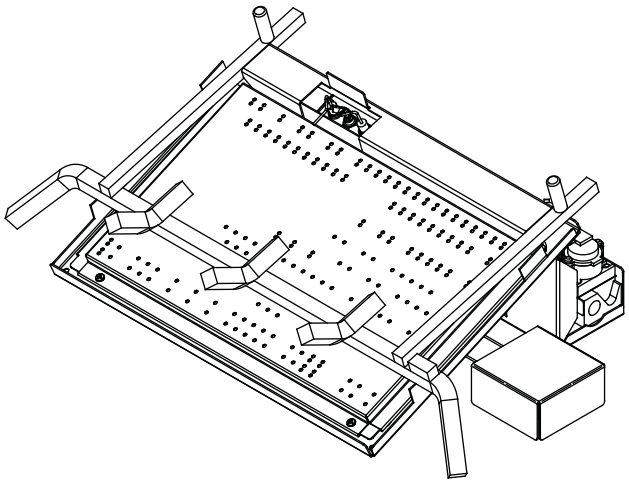
RB-30PI

GAS-FIRED

c UL us

LISTED

MH62954



⚠ WARNING

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

- **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.

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

See appliance installation manual for additional Commonwealth of Massachusetts requirements.

⚠ 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.*

Table of Contents

1 Welcome

A. Congratulations 3
B. Limited Lifetime Warranty 4
C. Installation Standard Work Checklist 6

2 Product Specific Information

A. Appliance Certification 7
B. BTU Specifications and Weight 7
C. Gas Pressures 7
D. High Altitude Installations 7
E. Non-Combustible Materials Specification 7
F. Combustible Materials Specification 7
G. California 7
H. Requirements for the Commonwealth of Massachusetts . . 8

3 Getting Started

A. Design and Installation Considerations 9
B. Tools and Supplies Needed 9
C. Inspect Appliance and Components 9
D. Check Parts 9
E. Minimum Hearth Dimensions 10
F. Restrictive Barriers 10
G. Adequate Combustion Ventilation Air 11
H. Negative Pressure 11

4 Important Safety Information

A. Appliance Safety 12
B. General Operating Parts 12

5 Fireplace Preparation

A. Installation Information 14
B. Vented Installations 14

6 Gas Information

A. Fuel Type 16
B. Gas Pressure 16
C. Gas Connection and Gas Line Purging 16
D. Verify Gas Pressure 17
E. Air Shutter Setting 17

7 Electrical Information

A. General Information 18
B. Intellifire™ (IPI) Models 18

8 Appliance Installation and Set-up

A. Position and Secure Appliance 20
B. Remote Control 20
C. Install Grate Assembly 20
D. Install Component Covers 21
E. Log and Media Placement 21
F. Flame Appearance 22
G. Operating Instructions 22
H. Initial Use 22

9 Lighting Instructions

A. Intellifire™ (IPI) 23

10 Maintenance and Service

A. Maintenance: Frequency and Tasks 24
B. Maintenance Tasks: Homeowner 24
C. Maintenance Tasks: Service Technician 24

11 Troubleshooting

A. Frequently Asked Questions 26
B. IntelliFire™ Control System 26

12 Service Parts

A. Service Parts 28

13 Reference Materials

► A. Accessories 32
B. Contact Information 33

► = Contains updated information

1 Welcome

A. Congratulations

Congratulations and thank you for selecting a Hearth & Home Technologies vented gas log set, an elegant and clean alternative to wood burning fireplaces. The gas log set you have selected is designed to provide the utmost in safety, efficiency, and style.

As the owner of a new vented gas log set, 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 noted on the cover page.

Your new gas log set will give you years of durable use and trouble-free enjoyment. Welcome to the Hearth & Home family.

Local Dealer Information

Dealer: Fill in your name, address, phone number and email information in the space provided.

Dealer Name: _____

Address: _____

_____

Phone Number: _____

Email: _____

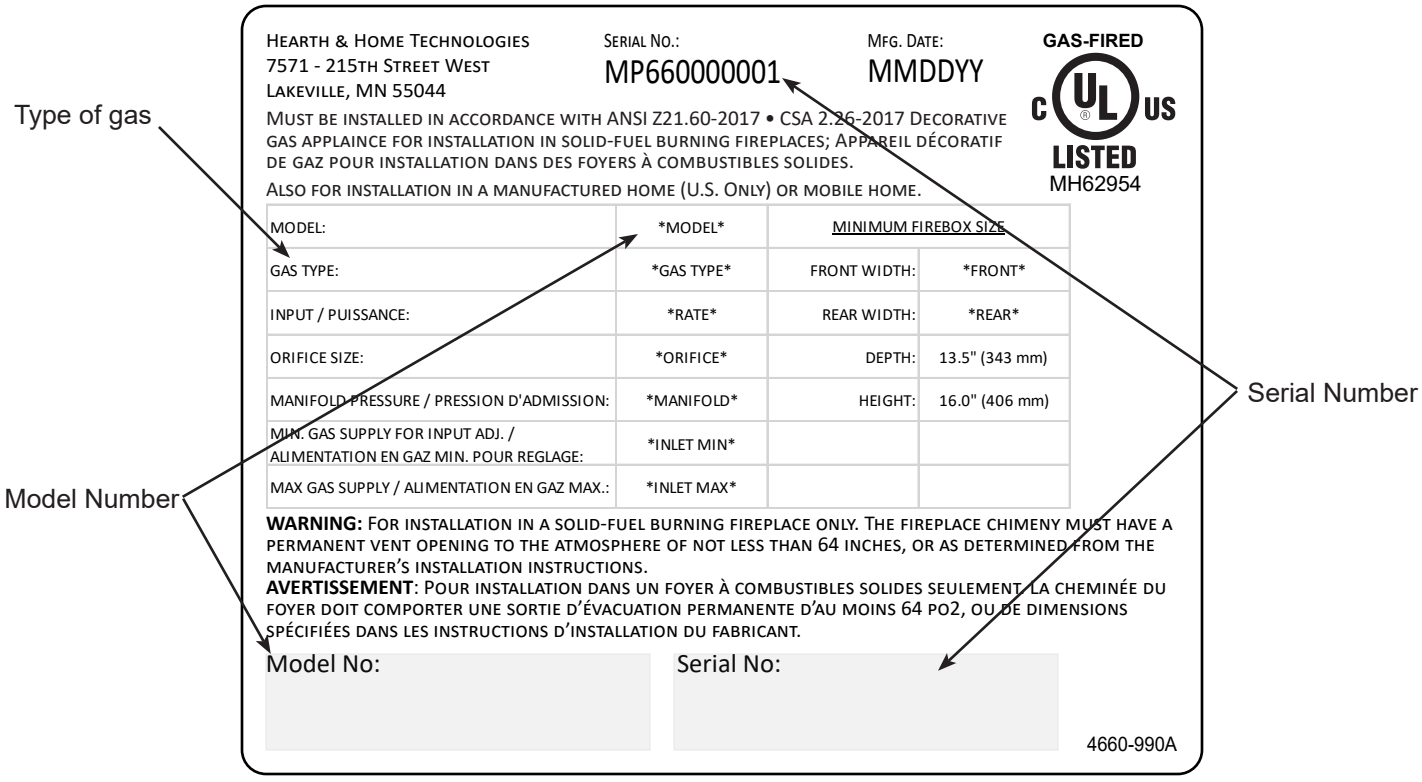
Appliance Information:

Brand: _____ Model Name: _____

Serial Number: _____ Date Installed: _____

Listing Label Information/Location

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



B. Limited Lifetime Warranty

Hearth & Home Technologies LLC

LIMITED WARRANTY

Hearth & Home Technologies LLC ("HHT") extends the following warranty for HHT gas, wood, pellet and electric hearth appliances (each a "Product" and collectively, the "Product(s)") and certain component parts set forth in the table below ("Component Part(s)") that are purchased from a HHT authorized dealer or distributor.

WARRANTY COVERAGE:

HHT warrants that the Products and their Component Parts will be free from defects in materials and workmanship for the applicable period of Warranty coverage set forth in the table below ("Warranty Period"). If a Product or Component Parts are found to be defective in materials or workmanship during the applicable Warranty Period, HHT will, at our discretion, repair the applicable Component Part(s), replace the applicable Component Part(s), or refund the purchase price of the applicable Product(s). The maximum amount recoverable under this Warranty is limited to the purchase price of the Product. This Warranty is transferable from the original purchaser to subsequent owners, but the Warranty Period will not be extended in duration or expanded in coverage for any such transfer. This Warranty is subject to conditions, exclusions, and limitations as described below.

WARRANTY PERIOD:

Warranty coverage begins at the date of installation. In the case of new home constructions, Warranty coverage begins six months after invoice of the final sale of the Product(s) by an independent, authorized HHT dealer or distributor. However, the Warranty coverage shall commence no later than 24 months following the date of Product shipment from HHT, regardless of the installation or purchase date.

Warranty Period		**HHT Manufactured Appliances and Venting**				
Component Parts	Labor	Gas	Pellet	Wood	Electric	Component Parts Covered by this Warranty
1 Year		X	X	X		All parts including handles, external enameled components and other material except as covered by Warranty Conditions, Warranty Exclusions, and Warranty Limitations listed
2 Years					X	All parts except as covered by Warranty Conditions, Warranty Exclusions, and Warranty Limitations listed
			X	X		Glass, Electrical components limited to heating element/igniters, Top feed auger assembly, Blowers, Junction Box, Remotes/Wall switches, linear actuator, power cord, vacuum switch, snap disc, wire harnesses and thermocouple
		X				Electrical components limited to modules, remotes/wall switches, valves, pilots, blowers, junction boxes, wire harnesses, transformers and lights (excluding light bulbs)
		X		X		Cement Refractory Panels, Glass Liner Panels
3 years			X			Firepots, burnpots, Harman mechanical feeders
5 years		X		X		Catalysts, Vented and Vent Free burners and logs
10 years	1 year	X				Burners, logs and metal/fiber refractory components of HHT manufactured fireplaces or stoves, venting due to poor workmanship
10 years	3 years		X	X		Castings, Medallions & Baffles, FlexBurn® System (engine, inner cover, access cover and fireback), Firebox and heat exchanger, HHT Chimney & Terminations, Manifolds
20 years	3 years	X				Firebox and heat exchanger
All purchased replacement parts and optional accessories						
1 Year	None	X	X	X	X	All purchased replacement parts and optional accessories

B. Limited Lifetime Warranty *(continued)*

WARRANTY CONDITIONS:

- Because HHT cannot control the quality of any Products sold by unauthorized sellers, this Warranty only covers Products that are purchased through an HHT authorized dealer or distributor unless otherwise prohibited by law; a list of HHT authorized dealers is available on the HHT branded websites.
- This Warranty is only valid while the applicable Product remains at the site of original installation.
- This Warranty is only valid in the country in which the HHT authorized dealer or distributor that sold the applicable Product is authorized to sell applicable Product.
- Contact your installing distributor or dealer for Warranty service. If the installing dealer or distributor 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 applicable Product.
- No HHT consumer should bear cost of warranty service or costs incurred while servicing warranty claims (i.e., travel, gas, or mileage) when the service is performed within the terms of this Warranty. Check with your dealer or distributor 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 is not covered under the Warranty.
- Damage to printed, plated, or enameled surfaces caused by fingerprints, accidents, misuse, scratches, melted items or other external sources and residues left on the plated 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 are not covered. These parts include: paint, wood and pellet gaskets, firebricks, wood grates, flame guides, batteries 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.
- Damages resulting from: (1) failure to install, operate, or maintain the applicable Product in accordance with the installation instructions, operating instructions, and listing agent identification label furnished with the applicable Product; (2) failure to install the applicable 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 improperly/incorrectly performed repairs; (5) environmental conditions, inadequate ventilation, negative pressure, or drafting caused by tightly sealed constructions, insufficient make-up air supply, or handling devices such as exhaust fans or forced air furnaces or other such causes; (6) use of fuels other than those specified in the operation instructions; (7) installation or use of components not supplied with the applicable Product or any other components not expressly authorized and approved by HHT; (8) modification of the appliance not expressly authorized and approved by HHT in writing; and/or (9) interruptions or fluctuations of electrical power supply to the applicable Product.
- Non-HHT venting components, hearth connections or other accessories used in conjunction with the applicable Product.
- Any part of a pre-existing fireplace system in which an insert or a decorative gas applicable Product is installed.
- HHT's obligation under this Warranty does not extend to the Product's capability to heat the desired space. Information is provided to assist the consumer and the dealer in selecting the proper Product for the application. Consideration must be given to the Product location and configuration, environmental conditions, insulation and air tightness of the structure.

This warranty is void if:

- The applicable Product has been over-fired, 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, deformation/warping of interior cast iron structure or components, rust colored cast iron, bubbling, cracking and discoloration of steel or enamel finishes.
- The applicable Product is subjected to prolonged periods of dampness or condensation.
- There is any damage to the applicable Product due to water or weather damage which is the result of, but not limited to, improper chimney or venting installation.

LIMITATIONS OF REMEDIES AND LIABILITY:

- **EXCEPT TO THE EXTENT PROVIDED BY LAW, HHT MAKES NO EXPRESS WARRANTIES OTHER THAN THE WARRANTY SPECIFIED HEREIN. The owner's exclusive remedy and HHT's sole obligation under this Warranty or in contract, tort or otherwise, shall be limited to, at HHT's sole option, replacement of the Component Part(s), repair of the Component Part(s), or refund of the original purchase price of the applicable Product(s). In no event will HHT be liable for any incidental or consequential damages caused by defects in the applicable Product. Some States do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This Warranty gives you specific legal rights and you may also have other rights which vary from State to State. THE DURATION OF ANY IMPLIED WARRANTY IS LIMITED TO DURATION OF THE EXPRESSED WARRANTY SPECIFIED ABOVE FOR THE APPLICABLE PRODUCT. Some States do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.**

C. Installation Standard Work Checklist

ATTENTION INSTALLER:

Follow this Standard Work Checklist

This standard work checklist is to be used by the installer in conjunction with, not instead of, the instructions contained in this installation manual.

Customer: _____ **Date Installed:** _____

Lot/Address: _____ **Location of Appliance:** _____

Model: RB-18-24NI **Installer:** _____
(circle one) RB-18-24PI **Dealer/Distributor Ph. #:** _____
RB-30NI
RB-30PI **Serial #:** _____

WARNING! Risk of Fire or Explosion! *Failure to install appliance according to these instructions could lead to a fire or explosion.*

	YES	IF NO, WHY?
Fireplace/Firebox Preparation Sections 3 - 5		
• Minimum firebox dimensions met?	☐	_____
• Adequate combustion ventilation air verified?	☐	_____
• Verified clearances to combustibles?	☐	_____
• Fireplace chimney has been cleaned?	☐	_____
• Damper stop properly installed?	☐	_____
Gas Section 6		
• Proper appliance selected for fuel type?	☐	_____
• Proper air shutter setting for fuel type verified?	☐	_____
• Inlet and oulet pressures verified?	☐	_____
• Leak check performed?	☐	_____
Electrical Section 7		
• Verified switch wires or remote control properly installed?	☐	_____
Appliance Installation and Set-up Section 8		
• Appliance properly positioned and secured?	☐	_____
• Media and logs installed correctly?	☐	_____
• Verified flame appearance?	☐	_____
• Verified packaging and protective materials removed?	☐	_____
• Manual bag and contents given to party responsible for use and operation?	☐	_____

Hearth & Home Technologies recommends the following:

- Photographing the installation and copying this checklist for your file.
- That this checklist remain visible at all times on the appliance until the installation is complete.

Comments: Further description of the issues, who is responsible (Installer/ Builder/ Other Trades, etc) and corrective action needed: _____

Comments communicated to party responsible: _____ By: _____ On: _____
(Builder / General Contractor) (Installer) (Date)

2 Product Specific Information

A. Appliance Certification

MODEL(S):	RB-18-24NI RB-18-24PI RB-30NI RB-30PI
LABORATORY:	Underwriters Laboratories (UL)
TYPE:	Vented Gas Log Set
STANDARD:	ANSI Z21.60-2017 • CSA 2.26-2017 Decorative gas appliance for installation in solid-fuel burning fireplaces.

This product is listed to ANSI standards for "Vented Gas Log Sets" and applicable sections of "Gas Burning Heating Appliances for Manufactured Homes" and "Gas Fired Appliances for Use at High Altitude."

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.*

NOT INTENDED FOR USE AS A PRIMARY HEAT SOURCE. This appliance is tested and approved as either supplemental room heater or as a decorative appliance. It should not be factored as primary heat in residential heating calculations.

This appliance must not be used to burn solid fuel.

This appliance must NOT be operated with glass doors in the closed position.

Thermostat control is NOT allowed in vented installations.

B. BTU Specifications and Weight

Models	Max. Input (BTU/hr)	Min. Input (BTU/hr)	Main Burner Orifice	Weight (lbs.)
RB-18-24NI	50,000	NA	.144 in. (3.7mm)	31
RB-18-24PI	50,000	NA	.086 in. (2.2 mm)	31
RB-30NI	65,000	NA	.161 in. (4.1 mm)	36
RB-30PI	65,000	NA	.098 in. (2.5 mm)	36

C. Gas Pressures

	Natural	Propane (LP)
Inlet Minimum	5.0” W.C.	11.0” W.C.
Inlet Maximum	10.0” W.C.	13.0” W.C.
Manifold Pressure	3.5” W.C.	10.0” W.C.

Natural Gas: An external regulator is required to reduce supply pressure to a maximum of 10.0” W.C. for natural gas systems operating at higher pressure.

Propane/LP: An external regulator is required to reduce supply pressure to a maximum of 13.0” W.C.

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 input rate 4% for each 1000 feet above 2000 feet.
- In CANADA: Input ratings are certified without a reduction of input rate for elevations up to 4500 feet (1370 m) above sea level. Please consult provincial and/ or local authorities having jurisdiction for installations at elevations above 4500 feet (1370 m).Check with your local gas utility to determine proper orifice size.

Check with your local gas utility to determine proper orifice size

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 750ºC** 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.

G. California

⚠ **WARNING!** This product and the fuels used to operate this product (liquid propane or natural gas), and the products of combustion of such fuels, can expose you to chemicals including benzene, which is known to the State of California to cause cancer and reproductive harm. For more information go to: www.P65Warnings.ca.gov.

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

H. 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 observes 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.

3 Getting Started

A. Design and Installation Considerations

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 burner assembly and log set are to be installed.
- Gas Supply piping.
- Whether optional accessories, devices such as a wall switch or remote control are desired.
- Approved wood burning masonry fireplace.

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

hearthED FACTORY TRAINING Fuel Your Fire

NFI NATIONAL FIREPLACE INSTITUTE A CERTIFICATION AGENCY

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

B. Tools and Supplies Needed

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

- Tape measure
- Gloves
- Pipe wrench
- Phillips screwdriver
- Safety glasses
- Flat blade screwdriver
- Manual shutoff valve
- Sediment trap
- Tee joint
- Voltmeter
- Manometer
- Soapy water solution for gas leak testing
- Electric drill and bits (1/4 in. magnetic)
- External regulator (for propane/LP only & 1/2 psi Natural gas system)
- Piping which complies with local codes
- Pipe sealant approved for use with propane/LP (Resistant to sulfur compounds)

⚠ CAUTION

Gloves are recommended when handling refractory and logs to prevent skin irritation from loose fibers. Logs are fragile; handle with care.

C. Inspect Appliance and Components

- Carefully remove the appliance and components from the packaging.
- Attached to the appliance are tags identifying the manufacturer, serial number, model number. Including log set size, BTU/hr ratings and gas type.
- Review the attached tags before proceeding. Ensure that all minimum fireplace dimension requirements are achieved using Figure 3.1.
- Ensure the gas type provided in the fireplace coincide with the gas type marked on the tag.
- Logs are packaged and sold separately.
- Report to your dealer any parts damaged in shipment.
- Read all of the instructions before starting the installation. Follow these instructions carefully during the installation process 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.
- Modification of the appliance.
- Installation other than as instructed by Hearth & Home Technologies.
- 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 or Electric Shock! DO NOT*** *use this appliance if any part has been under water. Call a qualified service technician to inspect the appliance and to replace any part of the control system and/or gas control which has been under water.*

D. Check Parts

Verify contents to ensure you have received all parts. You should have the following:

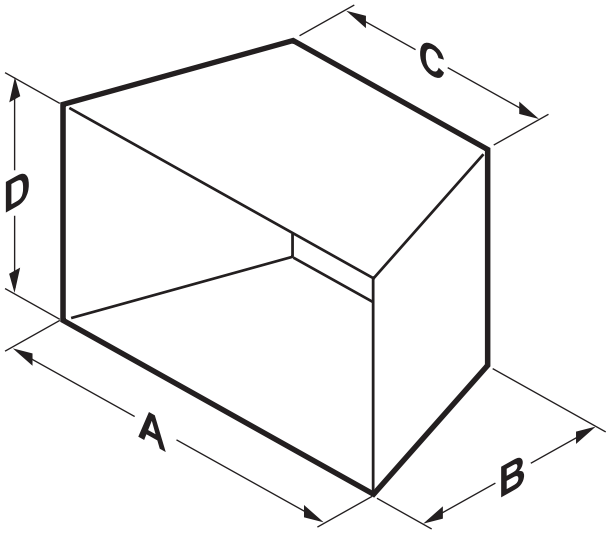
- Gas Log Burner Assembly
- Grate Assembly
- RCB Remote Control
- RCB Remote Control Cover (Flat)
- (2) Bags of Lava Rock & (1) Bag Rock Wool
- Installation / Owner's Manual
- Valve and Ignition Covers (Flat)
- Fastener Pack w/ (2) Anchor Screws
- Flex Line & Pipe Fittings
- Damper Clamp

⚠ WARNING

Do not install the appliance:

- **Where curtains, furniture, clothing, or other flammable objects are less the 36 inches from the front of the appliance.**
- **In high traffic areas.**
- **In windy or drafty areas.**

E. Minimum Hearth Dimensions



Model	A	B	C	D
RB-18-24NI RB-18-24PI	28.00” (711 mm)	13.50” (343 mm)	18.50” (470 mm)	16.00” (406 mm)
RB-30NI RB-30PI	34.00” (864 mm)	13.50” (343 mm)	24.50” (622 mm)	16.00” (406 mm)

Figure 3.1 Minimum Hearth Dimensions

F. Restrictive Barriers

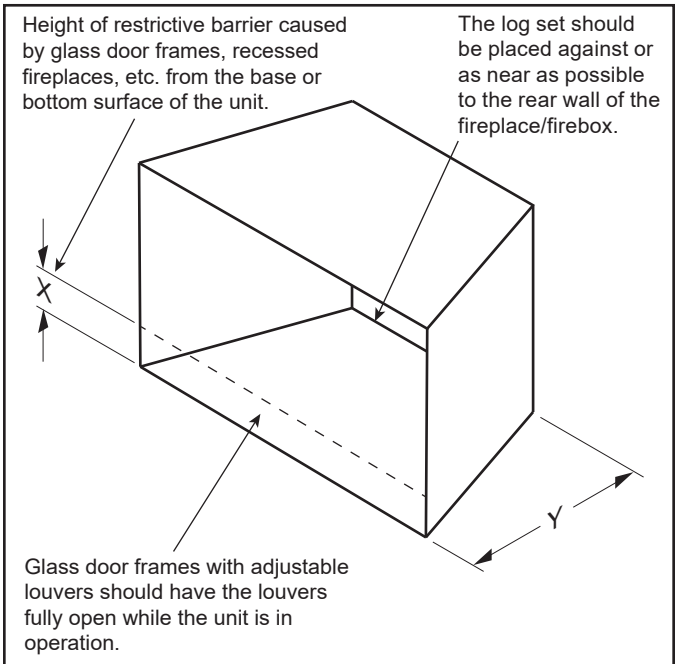
⚠ WARNING

Barriers such as the bottom of a glass door frame placed in front of a gas log set can change the air flow characteristics of the fireplace, which in turn can cause the appliance to overheat and malfunction.

The following are guidelines for placing a gas log set in a fireplace that has a restrictive barrier. See Figure 3.2.

NOTE: Non-combustible material such as refractory brick may be used to line the floor of the fireplace in order to raise the height of the gas log set in relation to a restrictive barrier. If the appliance is raised, the minimum height dimension shown in Figure 3.1 must be met or exceeded.

NOTE: This gas log set is supplied with a remote receiver, a restrictive barrier may reduce the battery life by increasing the ambient temperature inside the fireplace.



Height of Restriction (X)	Minimum Depth of Fireplace (Y)
No Restriction	13.50”
0” to 3” Restriction	15.00”
Greater than 3” Restriction	*

Figure 3.2 Restrictive Barriers

**Any barrier greater than 3” placed in front of the gas log set is not recommended by the manufacturer.*

G. Adequate Combustion Ventilation Air

This appliance shall not be installed in a confined space or unusually tight construction unless provisions are provided for adequate combustion and ventilation air.

The National Fuel Gas Code, (ANSI Z223.1/NFPA54), defines a confined space as a space whose volume is less than 50 cubic feet per 1,000 BTU per hour (4.8m^3 per kw) of the aggregate input rating of all appliances installed in that space. Rooms communicating directly with the space in which the appliances are installed, through openings not furnished with doors, are considered a part of a confined space. See Figure 3.3

Unusually tight construction is defined as construction where:

- Walls and ceilings exposed to the outside atmosphere have a continuous water vapor retarder with a rating of 1 perm (6 x 1011 kg per pa/sec-m2) or less with openings gasketed or sealed, and
- Weather stripping has been added to windows and doors, and
- Caulking or sealants are applied to areas such as joints around window and door frames, between sole plates and floors, between wall-ceiling joints, between wall panels, at penetrations for plumbing, electrical and gas lines and other openings.

⚠ WARNING

If the area in which the appliance may be operated is smaller than that defined as an unconfined space or if the building is of unusually tight construction, provide adequate combustion and ventilation air by one of the methods described in the National Fuel Gas Code, ANSI Z223.1/NFPA 54, Air for Combustion and Ventilation, or applicable local codes.

Formula:
Appliance BTU rating / 1,000 x 50 = Min. Required Ft^3

Example:
40,000 / 1,000 x 50 = 2,000 Ft^3

Room Size Calculation:
(L1 + L2) x W x H = Ft^3

Example:
(15.5 + 12) x 12 x 8 = 2,640 Ft^3

2,640 Ft^3 Available > 2,000 Ft^3 Minimum Required

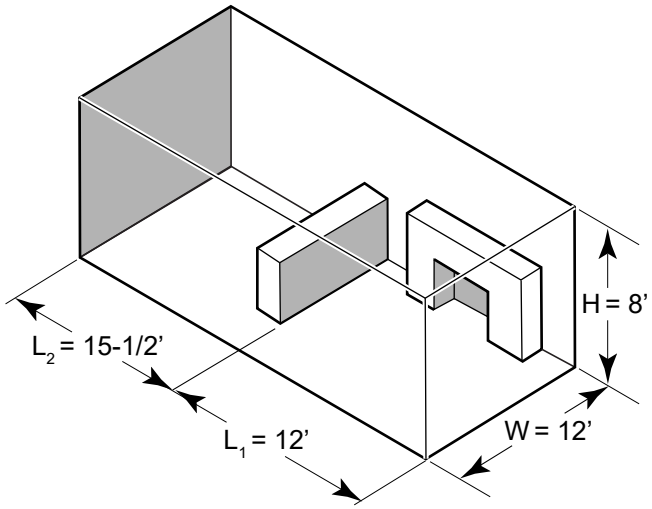


Figure 3.3 Confined Space Example

H. Negative Pressure

Negative pressure results from the imbalance of air available for the fireplace to operate properly. Possible causes for this imbalance include:

- Exhaust fans (kitchen, bath, etc.)
- Range hoods
- Combustion air requirements for furnaces, water heaters and other combustion appliances
- Clothes dryers
- Location of return-air vents to furnace or air conditioning
- Imbalances of the HVAC air handling system
- Upper level air leaks: recessed lighting, attic hatch opening, duct leaks.

4 Important Safety Information

A. Appliance Safety

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

DANGER



- 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.

- Clothing, furniture, draperies, and other flammable materials must not be placed on or near the appliance.

Young children should be carefully supervised when they are in the same room as the appliance. Toddlers, young children and others may be susceptible to accidental contact burns.

- A physical barrier is recommended if there are at risk individuals in the house.
- To restrict access to a appliance, install an adjustable safety gate to keep toddlers, young children and other at risk individuals out of the room and away from hot surfaces.
- 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 appliance, whether operating or cooling down.
- Teach children to NEVER touch the appliance.
- Consider not using the appliance when children will be present.

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

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

- Remove batteries from remote controls.
- Turn off gas shutoff valve.

Clear Space

WARNING! DO NOT *place combustible objects in front of the appliance. High temperatures may start a fire. See Figure 4.1.*

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

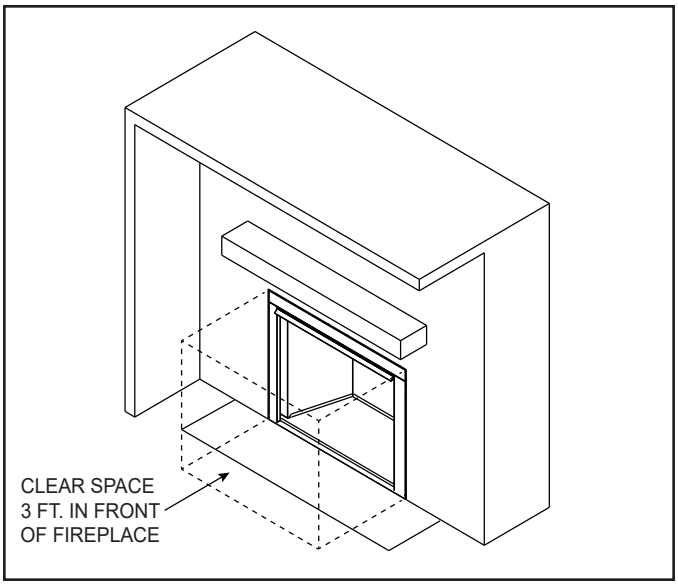


Figure 4.1 Clear Space Requirements

Over Firing

The appliance is considered to be over firing if the flames are contacting the top of the firebox. Call a qualified service technician to service the appliance.

B. General Operating Parts

Figure 4.2 references the general operating parts of a typical installation.

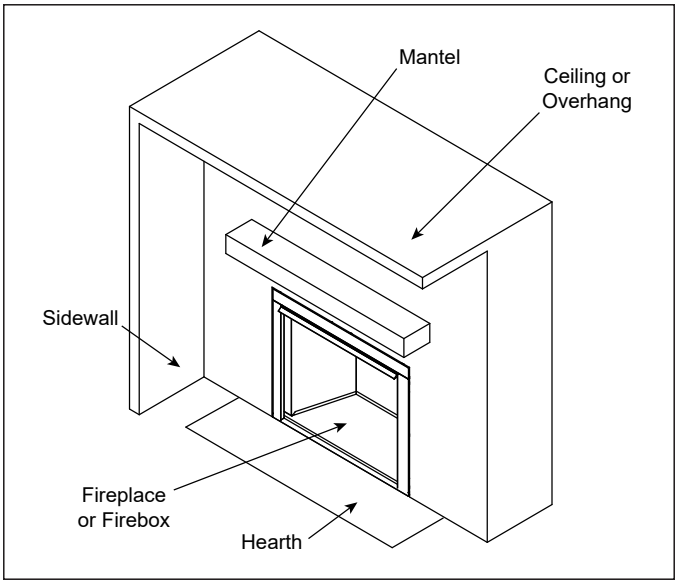


Figure 4.2 General Operating Parts

⚠ WARNING

- **Any change to this appliance or its controls can be dangerous.**
- **Improper installation or use of the appliance can cause serious injury or death from fire, burns, explosion or carbon monoxide poisoning.**
- **Do not allow fans to blow directly into the fireplace. Avoid any drafts that alter burner flame patterns.**
- **Do not use a blower insert, heat exchanger insert or other accessory, not approved for use with this appliance.**

Additional Safety information:

- WARNING: Any change to this appliance or its controls can be dangerous.
- NEVER burn solid fuels in a fireplace where a gas appliance is installed.
- Correct installation of the logs, proper location of the appliance, and annual cleaning are necessary to avoid potential problems with sooting. Sooting, resulting from improper installation or operation, can settle on surfaces outside the fireplace. Refer to log placement instructions for proper installation.
- Cleaning: To prevent malfunction and/or sooting, appliance should be cleaned before use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding materials, etc. It is imperative that control compartments, burners and circulating air passageways be kept clean.
- Any safety screen removed for servicing an appliance, MUST be replaced prior to operating.
- Avoid any drafts that alter burner flame patterns. Do NOT allow fans to blow directly into fireplace. Do NOT place a blower inside burn area of firebox. Ceiling fans may create drafts that alter burner flame patterns. Sooting and improper burning will occur.
- Keep room area clear and free from combustible materials, gasoline and other flammable vapors and liquids.
- Avoid the use of candles, incense, oil lamps, etc. while the appliance is in operation. These products produce a residue in the air that creates a soot like substance. Burning candles while the appliance is operating magnifies the problem. It should be noted that candles, in general, produce soot. The amount of time burned and the quantity of candles burned will determine the amount of soot produced and deposited.

5 Fireplace Preparation

A. Installation Information

BEFORE INSTALLING THE APPLIANCE:

- Turn off gas supply to masonry fireplace or factory-built fireplace.
- Have the fireplace floor and chimney professionally cleaned to remove ash, soot, creosote or other obstructions. Have this cleaning performed annually after installation.
- Seal any fresh air vents or ash clean-out doors located on floor or wall of fireplace. If not, drafting may cause pilot outage or sooting. Use a heat-resistant sealant.

B. Vented Installations

⚠ WARNING

This appliance is for installation only in a solid-fuel burning masonry or UL127 factory-built fireplace. It has been design certified for these installations.

Damper Stop Installation

A damper stop is provided with this appliance. The damper stop MUST be installed to prevent full closure of the fireplace damper blade and provide a minimum flue opening. See Figures 5.1 and 5.3; Tables 5.2 and 5.4.

Note: Should the stop not fit, or provide the required permanent opening from the table have the damper blade cut to provide minimum permanent opening or a permanent stop installed.

Factory-Built Fireplace: Position damper stop on the top half of the damper blade, slide stop towards the center of the damper blade to create an interference with the bead on the flue collar and tighten bolt. Either side of the damper blade is acceptable. See Figure 5.1.

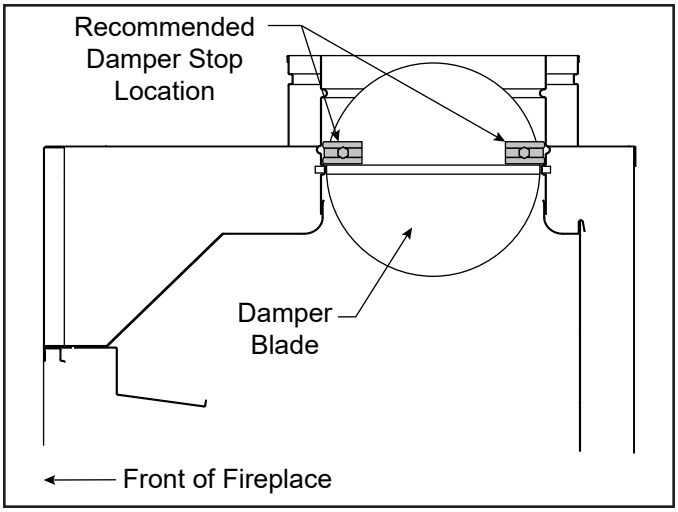


Figure 5.1 Factory-Built Fireplace

Free opening area of chimney damper for venting combustion products (factory-built fireplaces)

Chimney Height	RB-18-24NI RB-18-24PI	RB-30NI RB-30PI
10 Ft.	28.3 in^2	44.2 in^2
15 Ft.	21.2 in^2	32.2 in^2
20 Ft.	18.1 in^2	26.4 in^2
25 Ft.	15.9 in^2	22.9 in^2
30 Ft.	14.5 in^2	20.4 in^2
35 Ft.	13.2 in^2	18.9 in^2
40 Ft.	12.6 in^2	18.1 in^2

Table 5.2 Minimum Open Area Factory-Built Fireplaces

Masonry-Built Fireplace: Position damper stop over the lip of the damper, and tighten bolt until the clamp is securely attached to the damper. See Figure 5.3.

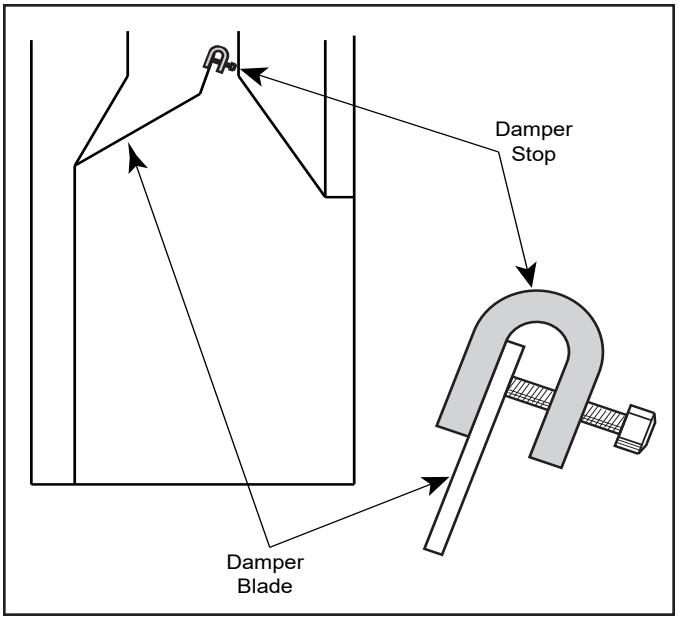


Figure 5.3 Masonry-Built Fireplace

Free opening area of chimney damper for venting combustion products (masonry-built fireplaces)

Chimney Height	RB-18-24NI RB-18-24PI	RB-30NI RB-30PI
6 Ft.	41.7 in^2	56.6 in^2
8 Ft.	38.7 in^2	52.4 in^2
10 Ft.	35.2 in^2	48.2 in^2
15 Ft.	32.0 in^2	43.2 in^2
20 Ft.	28.8 in^2	39.8 in^2
30 Ft.	26.5 in^2	35.9 in^2

Table 5.4 Minimum Open Area Masonry-Built Fireplaces

⚠ WARNING

Improper installation or use of the appliance can cause serious injury or death from fire, burns, explosion or carbon monoxide poisoning.

For Massachusetts Residents Only:
Installation of this vented gas log set in the Commonwealth of Massachusetts requires the damper be permanently removed or welded in the fully open position. In addition, a naturally vented gas log may not be installed in a bedroom or bathroom in the Commonwealth of Massachusetts.

⚠ WARNING

The fireplace and gas logs function as a system. If the fireplace is spilling into the room (check with a match or smoke stick), reposition the damper clamp until a positive draft is obtained, by opening the damper. If negative pressure in the home prevents having a positive draft contact your dealer.

6 Gas Information

⚠WARNING



Risk of Fire! Risk of Explosion! Risk of Asphyxiation!

Follow all instructions and warnings for installing and servicing gas line.

- **Gas line installation and service must be performed by a qualified installer or licensed plumber in accordance with all applicable codes for the installation location (NFPA 54 / ANSI Z223.1, the current International Fuel Gas Code, or CAN/CSA B149 in Canada) (In the Commonwealth of Massachusetts installation must be performed by a licensed plumber or gas fitter).**



- **Check all fittings and connections by means of a listed combustible gas detector, a noncorrosive leak detection fluid, or other approved leak detection method. DO NOT use open flame.**

⚠WARNING



Risk of Fire! Risk of Explosion!

Pressure exceeding 1/2 PSIG (14 in. w.c. / 3.5 kPa) will damage gas valve control.

- **Disconnect appliance and its manual shutoff valve BEFORE line pressure testing.**



- **Cap outlet on piping system at appliance connection BEFORE line pressure testing.**
- **Connect appliance AFTER confirming piping system pressure is equal or less than 1/2 PSIG (14 in. w.c. / 3.5 kPa).**

A. Fuel Type

- Make sure the appliance is compatible with available gas types.
- Field conversion is **NOT** permitted.

B. Gas Pressure

- Install pressure regulator upstream of gas valve if line inlet pressure exceeds 1/2 PSIG.
- Recommended inlet pressure for optimal appliance performance: 7.0 in. w.c. (NG) 12.0 in. w.c. (Propane).
- Verify inlet pressure is within specified range, including when other household gas appliances are operating.
- Pressure requirements when in operation are:

	Natural Gas	Propane (LP)
Inlet Minimum	5.0” W.C.	11.0” W.C.
Inlet Maximum	10.0” W.C.	13.0” W.C.
Manifold Pressure	3.5” W.C.	10.0” W.C.

Table 6.1 Gas Pressures

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.**

C. Gas Connection and Gas Line Purging

⚠WARNING



Risk of Fire! Risk of Explosion!

Gas buildup during line connection and purging could ignite.

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



- **Gas line installation and purging of the gas fuel line MUST be preformed by a qualified service technician or a licensed plumber in accordance with the applicable gas code for the installation location (NFPA 54 / ANSI Z223.1, the current International Fuel Gas Code, or CAN/CSA B149 in Canada).**
- **Use a listed combustible gas detector, a noncorrosive leak detection fluid, or other approved leak detection method to check all fittings and connections for gas leaks before lighting the appliance.**
- **Ensure Ventilation**
- **Eliminate ignition sources, such as sparks or open flames**

- The gas inlet connection is on the right rear side of the appliance. To connect from the opposite side, route the appliance gas connector around the back of the appliance.
- Pipe incoming gas line into firebox. See Figure 6.1.
- The gap between supply piping and gas access hole may be caulked with caulk with a minimum of 300ºF continuous exposure rating or stuffed with non-combustible, unfaced insulation to help prevent cold air infiltration.
- Ensure that gas line does not come in contact with outer wrap of the firebox/fireplace. Follow local codes.
- A small amount of air will be in the gas supply line and must be purged. Light the appliance to allow air to purge through the pilot assembly.

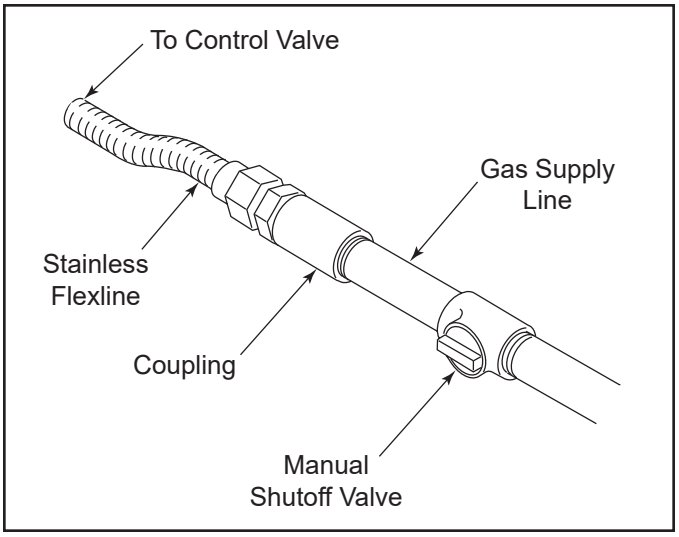


Figure 6.1 Gas Connection

D. Verify Gas Pressure

The valve regulator controls the burner pressure. Gas pressure must be verified at both the inlet and outlet pressure taps.

1. Turn captured screw counterclockwise two or three turns. See Figure 6.2.
2. Place tubing from pressure gauge over test port.
3. After taking pressure readings, be sure and turn captured screw clockwise firmly to re-seal. Do not over torque.
4. Check for gas leaks.

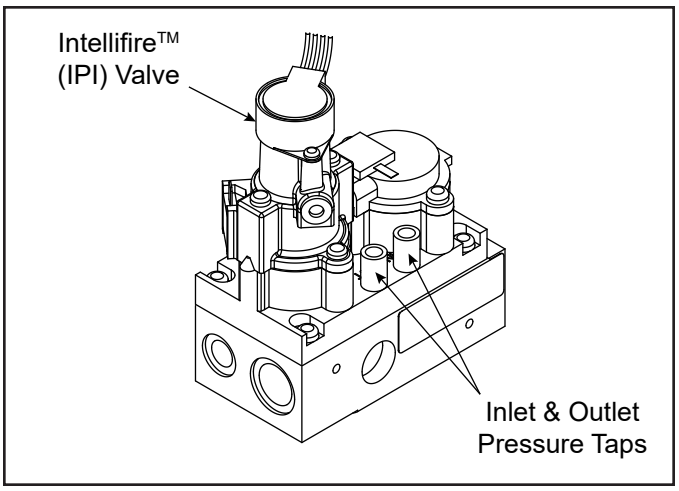


Figure 6.2 Pressure Taps

E. Air Shutter Setting

⚠ ***WARNING!*** *Risk of Explosion or Delayed Ignition! Improperly adjusted air shutter may cause excessive soot buildup.*

NOTICE: *If excessive sooting occurs, provide more air by opening the air shutter.*

The air shutter is preset at the factory. Settings should be verified/adjusted by a qualified service technician at the time of installation. See Figure 6.3.

To adjust air shutter settings:

1. Carefully stand the Burner Assembly to gain access to the burner bottom.
2. Loosen air shutter adjustment screw.
3. Rotate air shutter to appropriate postion.
4. Tighten air shutter set adjustment screw.

Model	Fuel Type	Air Shutter
RB-18-24NI	Natural Gas	5/16”
RB-18-24PI	Propane	Fully Open
RB-30NI	Natural Gas	5/16”
RB-30PI	Propane	Fully Open

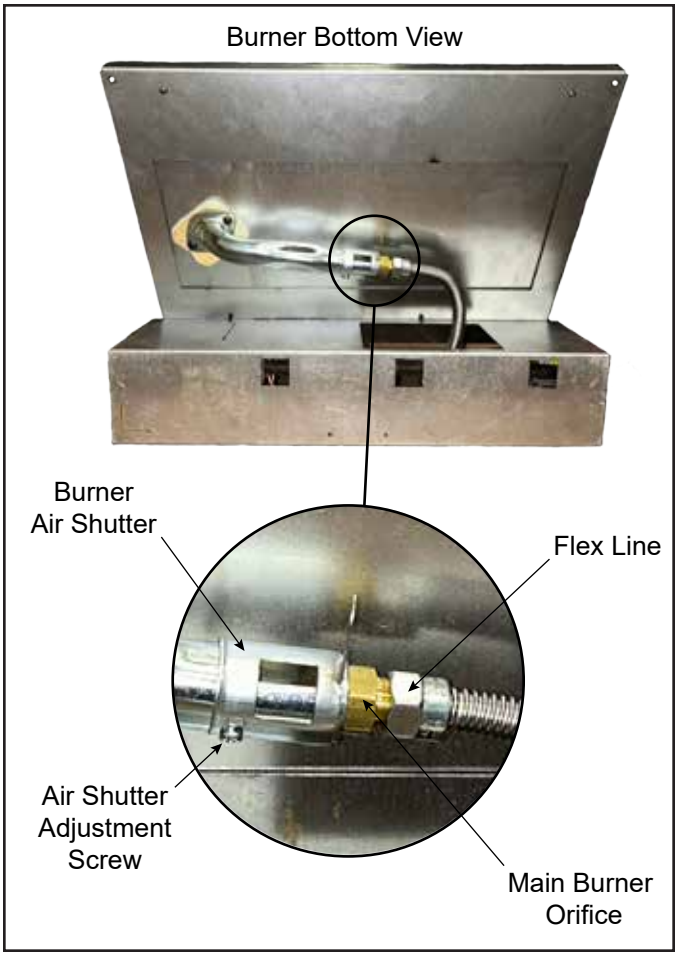


Figure 6.3 Air Shutter Adjustment

7 Electrical Information

A. General Information

⚠ WARNING

Risk of Shock or Explosion! DO NOT wire 110-120 VAC to the control valve. Incorrect wiring will damage the controls.

This appliance does NOT require 110-120 VAC for operation. If the fireplace the appliance is installed into is electrically wired, it MUST be wired and grounded in accordance with local codes or, in the absence of local codes, with **National Electric Code ANSI/NFPA 70-latest edition.**
This appliance may be operated with the supplied battery powered remote control.
Note: The use of a thermostat is prohibited in vented installations.

⚠ ***WARNING! Risk of Shock!*** *Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.*

⚠ ***WARNING! Risk of Shock!*** *Replace damaged wire with type 105ºC rated wire. Wire must have high temperature insulation.*

⚠ ***WARNING!*** *Do NOT allow uninsulated remote connectors to touch the grate, burner or other metal surfaces.*

B. Intellifire™ (IPI) Models

Battery Power

- The Intellifire™ intermittent pilot system comes standard with a integrated battery pack that holds (2) D-size batteries and does NOT require 110-120 VAC to operate. See Figure 7.1.

Appliance Controls

- The Duzy series vented log set comes standard with a battery powered Remote Control with built in ON/OFF switch. See Figure 7.2.
- A Remote Control Cover is also included. Carefully bend the cover as shown in Figure 7.3, and place cover over the top of the Remote Control.
- For proper electrical connections see Figure 7.4.

Appliance Operation

Remote Control:

- ON Position = Appliance main burner ON
- RS Position = Appliance function will be controlled by the handheld transmitter.
- OFF Position = Appliance main burner OFF

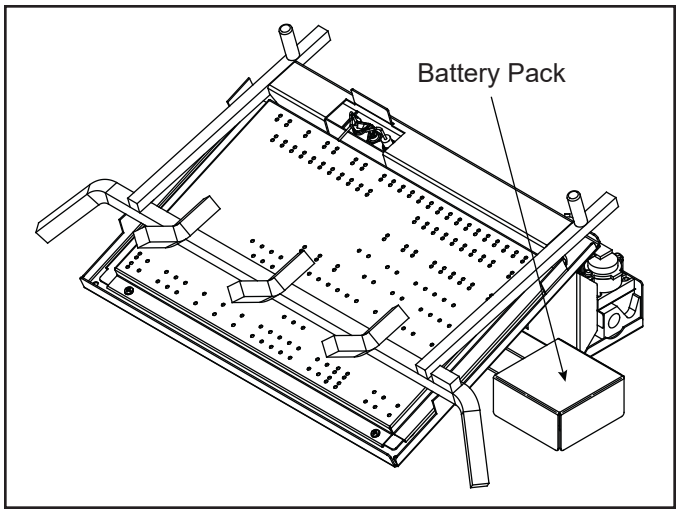


Figure 7.1 Battery Pack Location

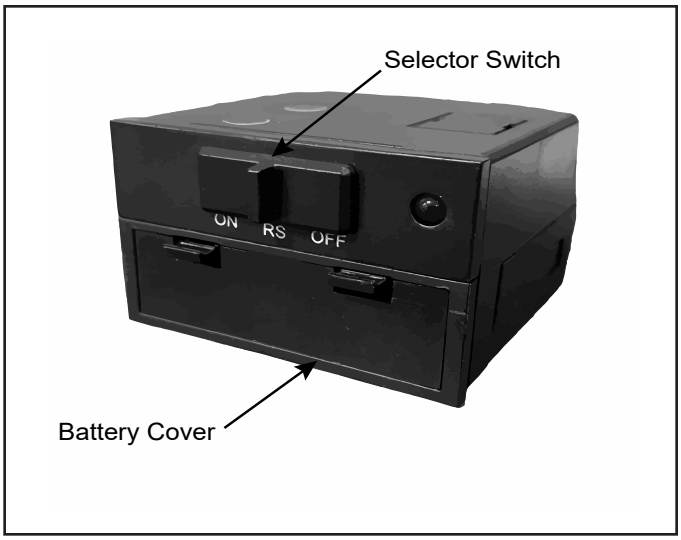


Figure 7.2 Remote Control Receiver

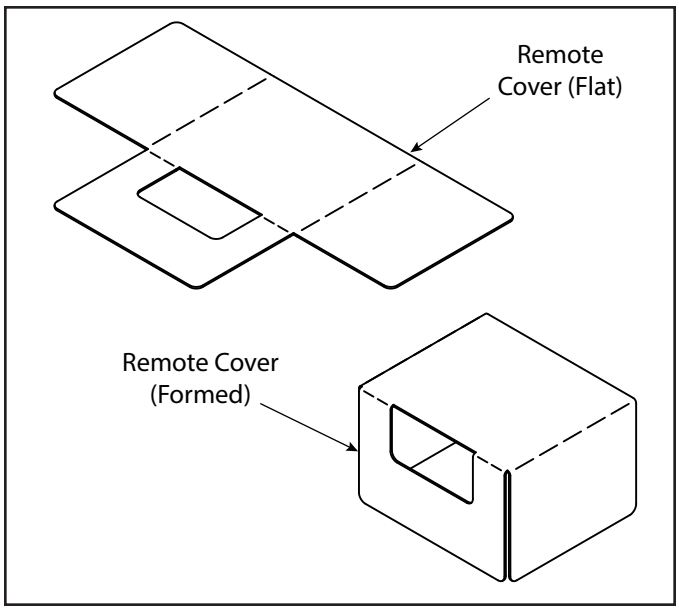


Figure 7.3 Remote Control Cover

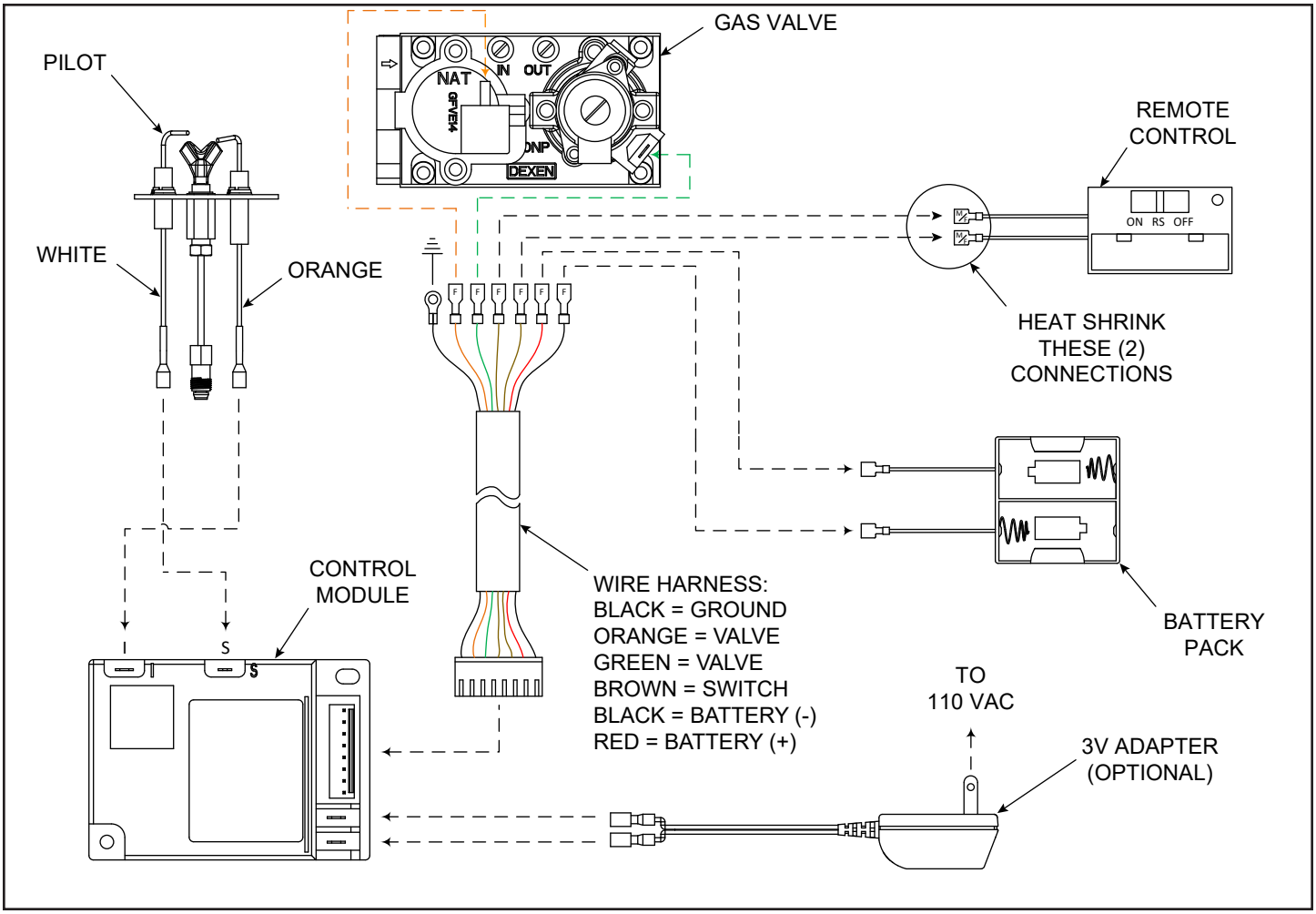


Figure 7.4 IPI Wiring Diagram

8 Appliance Installation and Set-up

⚠WARNING

You must secure the appliance to the fireplace floor. If not, the entire appliance may move when adjusting the controls. Movement of appliance may cause shifting of the logs which can lead to sooting and improper burning.

A. Position and Secure Appliance

The appliance is assembled with the gas controls installed at the factory, and is designed to connect the 3/8" supply line before making final placement inside the fireplace.

1. Place the appliance towards the rear and center of the fireplace and connect the gas line.
2. Tighten incoming gas connection. Follow instructions in section 6.C Gas Connection to check for gas leaks.
3. Center the appliance in the fireplace. Make certain the front feet of the grate sit inside the front edge of the fireplace.
4. Once the appliance is positioned correctly, side to side and front to back, mark the mounting hole positions on the fireplace floor. See Figure 8.1 for mounting hole locations.
5. Drill (2) 5/32" diameter holes approximately 1-1/2" deep.
6. Anchor the appliance to the fireplace floor using the screws provided.

Note: Preventing unintended movement of the appliance is essential to proper operation of the appliance.

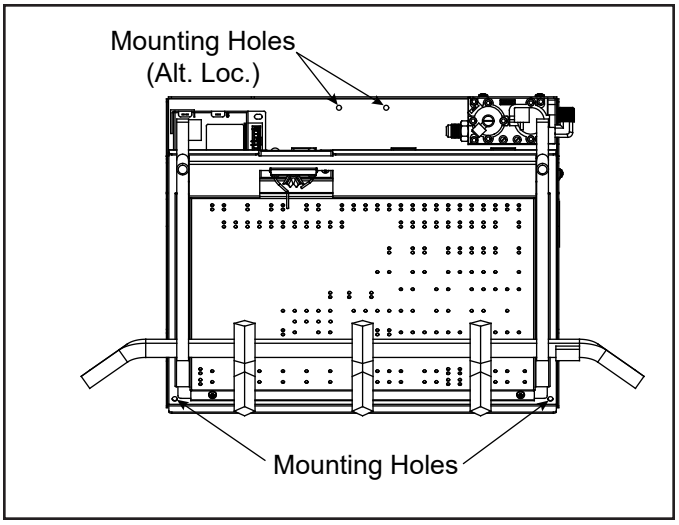


Figure 8.1 Mounting Holes

B. Remote Control

The Duzy series vented log set comes supplied with a battery powered remote control kit.

1. Connect the remote control receiver to appliance brown switch wires using the included wire harness as shown in Figure 7.4.

Note: Heat shrink tubing has been supplied and should be used to isolate remote control receiver connectors from accidental contact with conductive surfaces, which may result in unintended appliance ignition.

2. Position the remote control receiver with cover in a convenient location that allows for safe operation of the appliance and battery replacement.

Note: The remote control receiver should be located away from excessive heat. The front left or front right corner of the firebox is preferred. Due to high temperatures, DO NOT position the remote receiver or battery pack under the burner pan.

C. Install Grate Assembly

This appliance is shipped with an integral Grate Assembly that has been designed to correctly position and support the gas logs.

1. To properly position the Grate Assembly, align the three tabs located at the rear of the grate with the three slots in the rear of the burner base assembly.
2. The front grate bar should rest on the two support tabs located on the side of the burner base assembly. This will position the grate front to back, and side to side.. See Figure 8.2.

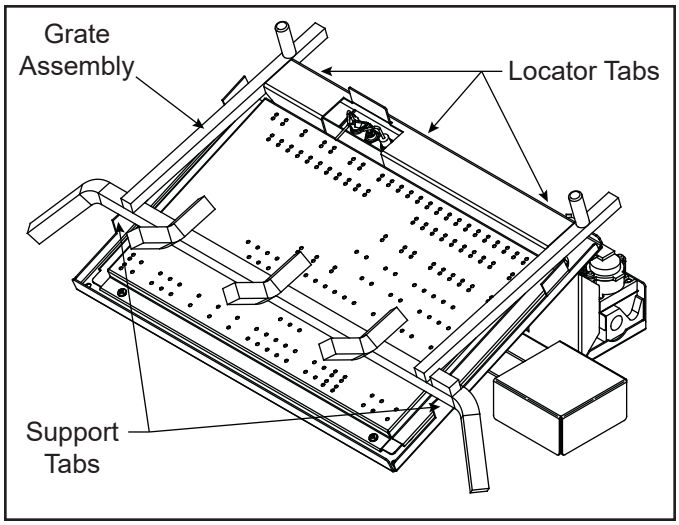


Figure 8.2 Grate Placement

D. Install Component Covers

This appliance is shipped with component covers. These covers are designed to provide additional temperature protection for the appliance gas valve and ignition control module.

Note: Covers are shipped flat and must be formed prior to installation.

1. Form Covers as shown. See Figure 8.3

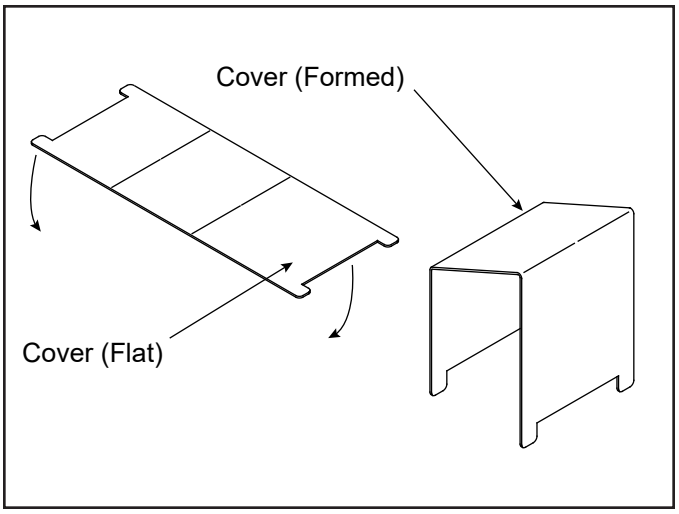


Figure 8.3 Component Covers

2. Install Covers so that they completely cover the appliance gas valve and ignition control module. See Figure 8.4

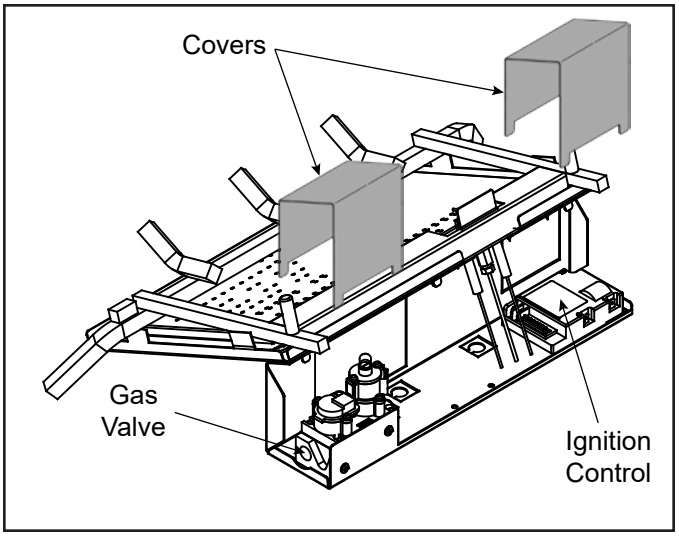


Figure 8.4 Component Cover Installation

E. Log and Media Placement

Glowing Embers:

Cover the entire top surface of the burner pan with glowing embers (rock wool) provided. Tear pieces into approximately 1/2" diameter pieces, roughly nickel size, and cover the burner evenly.

Log Options:

This appliance has multiple log options to choose from. Logs are sold separately and are listed in Section 14.A of this manual.

For log and media placement instructions refer to the installation instructions supplied with the selected log set.

DO NOT:

- Add additional glowing embers (rock wool), use only the rock wool provided with the appliance.
- Pile the glowing embers too heavily on the pan.
- Cover the pilot with glowing embers.

Note: This appliance is designed to be operated with one of the optional log sets installed. Do NOT operate this appliance without a log set installed.

Decorative Volcanic Rock:

The volcanic rock may be placed evenly around the appliance, on the floor of the firebox. Be sure to avoid any areas on the burner itself.

DO NOT:

- Place decorative volcanic rock on the burner, pilot or logs.

⚠ WARNING

The positioning of the grate and logs is critical to the safe and clean operation of this appliance. Sooting and other problems may result if the logs are not properly and firmly positioned in the appliance.
Never add additional logs or embellishments such as pine cones, vermiculite or rock wool to the appliance. Only use the logs and rock wool supplied with the unit.
Failure to position the parts in accordance with diagrams on the following pages or failure to use only parts specifically approved for this appliance may result in property damage or personal injury.

F. Flame Appearance

Flames from the pilot and burner should be visually checked as soon as the appliance is installed. In addition, periodically check the flames visually during operation.

Check the Pilot Flame:

The IPI pilot flame must always be present when the appliance is in operation. Pilot flame should engulf the flame sensor rod. See Figure 8.5.

If the pilot flame does not touch the flame sensor, the main burner cannot function reliably.



Figure 8.5 Pilot Flame

Main Burner Flame:

Operate the appliance at full rate for 45 minutes, the following flame appearances should be observed.

- Burner will have a random pattern of yellow flames, with glowing embers covering the main burner.

Note: This appliance is a vented gas log set, therefore some flame impingement and soot is normal.

Observe flames for excessive impingement with any of the logs. If excessive impingement is present, turn off log set and allow to cool. Remove all logs and carefully reinstall following log placement instructions precisely. Relight burner and check again for excessive impingement. If flame impingement cannot be eliminated, contact your installer or dealer for assistance.

G. Operating Instructions

Before operating this appliance for the first time, have a qualified service technician:

- Verify all shipping material have been removed from inside and/or underneath the gas log set.
- Review proper placement of logs.
- Ensure there are no gas leaks.

Caution: This appliance must NOT be operated with glass doors in the closed position.

Avoid any drafts that may alter burner flame patterns.

- Do NOT allow fans to blow directly into the fireplace.
- Do NOT place a blower inside the burn area of the firebox.
- Ceiling fans may create air currents that alter flame patterns. Sooting and improper burning may result.

To light your appliance, follow the instructions that match your ignition type (IPI). See Section 9 Lighting Instructions.

Appliances equipped with an Intellifire™ (IPI) ignition system utilize battery power for normal operation and come standard with an integrated battery pack that holds (2) D-size batteries.

To replace batteries:

1. Locate Battery Pack

Note: Battery pack should be located in a convenient location, which allows for safe operation of the appliance and replacement of batteries, as necessary.

2. Replace (2) D batteries
3. Replace battery pack back to the original location.

Note: Battery pack should be located away from excessive heat. The front left or front right corner of the firebox is preferred. Due to high temperatures, DO NOT position the battery pack under the burner pan.

H. Initial Use

When first operated, this appliance may release an odor for the first several hours. This is caused by the curing of the paint and burning off of any oils remaining from manufacturing.

Initial Break-in Procedure:

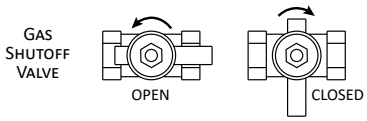
- The appliance should be run three to four hours continuously on high.
- Provide maximum ventilation by opening windows or doors to allow odors to dissipate.
- Turn the appliance off and allow to cool completely.

9 Lighting Instructions

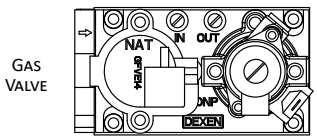
A. Intellifire™ (IPI)

OPERATING INSTRUCTIONS (INTERMITTENT PILOT)

1. **STOP!** Read the safety information label.
2. Set the On/Off Switch, remote control or thermostat to the "OFF" position.
3. This appliance is equipped with an intermittent pilot ignition (IPI) device which automatically lights the pilot. **DO NOT** attempt to light the pilot by hand.
4. Make sure manual gas shutoff valve is in the fully CLOSED position.



5. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" on the safety instructions. If you do not smell gas, go to the next step.



6. Turn manual gas shutoff valve to the fully OPEN position.
7. To light the main burner turn the On/Off Switch, remote control or thermostat to the "ON" position.
8. 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 On/Off Switch, remote control or thermostat to the "OFF" position.
2. Make sure manual gas shutoff valve is in the fully CLOSED position.
3. If applicable, turn off all electrical power to the appliance.

4665-972 Rev A

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.

Standing Pilot Models:

A. This appliance has a pilot which must be lighted by hand. When lighting the pilot, follow these instructions exactly.

Intermittent Pilot Models:

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 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. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, do not 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.

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

FOR YOUR SAFETY READ BEFORE LIGHTING

4665-974 Rev A

10 Maintenance and Service

When properly maintained, your appliance will give you many years of trouble-free service. Contact your dealer to answer questions regarding proper operation, trouble-shooting and service for your appliance.

Visit www.hearthnhome.com to locate a dealer.

We recommend annual service by a qualified service technician.

⚠ CAUTION

Before cleaning make sure the appliance is cool and the power to the unit is turned OFF.

A. Maintenance: Frequency and Tasks

The matrix below is an overview of maintenance tasks to be performed on the appliance. Sections B and C give details and instructions needed to assist the appropriate person in performing the tasks.

Task	Frequency	To be completed by
Clean Firebox/Logs	Seasonally	Homeowner
Remote Control	Seasonally	
Pilot Inspection & Cleaning	Annually	Qualified Service Technician
Log Inspection	Annually	
Firebox Inspection	Annually	
Burner Ignition & Operation	Annually	

B. Maintenance Tasks: Homeowner

Clean Firebox/Logs

Tools Needed: Protective gloves, vacuum cleaner, small soft brush.

- Remove logs carefully, by holding gently at each end. Refer to installation manual for correct log placement.
- Brush logs with soft bristle brush or vacuum with brush attachment.
- Do NOT use cleaning fluid to clean logs or any part of the appliance.
- Vacuum loose particles and dust from the burner, controls and grate.

Note: During normal operation it is common that some sooting may occur on the logs as well as internal panels. This can be more prevalent with propane (LP). Clean soot from the appliance as frequently as necessary to eliminate a build up of soot or permanent discoloration.

Remote Control (If equipped)

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.
- Replace batteries as needed in remote transmitters and battery-powered receivers.
- Place remote control out of reach of children.

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

- Remove batteries from remote controls.

C. Maintenance Tasks: Service Technician

The following tasks must be performed by a qualified service technician.

Pilot Inspection & Cleaning

Tools Needed: Small soft brush, pipe cleaner

- Inspect and remove dust, spider webs and lint.
- Gently run pipe cleaner through air intake port.
- Inspect IPI flame sensing rod for soot, corrosion and deterioration. Polish with a 320 grit Emery Cloth or 3M™ Scotch-Brite Abrasive Hand Pad.

Log Inspection

Tools Needed: Small soft brush

- Inspect for broken, cracked or misplaced logs.
- Gently remove any dust and/or soot build up.

Firebox Inspection

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

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

Burner Ignition and Operation

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

- Verify burner is properly secured.
- Verify pilot assembly is properly aligned with burner.
- Clean off burner top; Inspect burner for plugged ports, corrosion or deterioration. Replace burner if necessary.
- Inspect and clean burner air shutter. Remove lint or particles with vacuum, brush, or pipe cleaners.
- Verify smooth and responsive ignition of main burner.
- Inspect burner for lifting or other flame problems.
- Verify manifold and inlet pressures. Adjust regulator as required.
- Verify correct main burner orifice size; See Section 2.B for proper orifice sizing.
- Inspect orifice for soot, dirt and corrosion. Clean or replace orifice as necessary.
- Inspect pilot flame pattern and strength. See Section 8.F for proper pilot flame pattern. Replace pilot orifice spud as necessary.

11 Troubleshooting

A. Frequently Asked Questions

SYMPTOM	SOLUTION
Odor from appliance	When first operated, this appliance may release an odor for the first several hours. This is caused by the burning off of any oils remaining from manufacturing. Odor may also be released from finishing materials and adhesives used around the appliance.
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.
Wall above appliance feels hot to the touch	The area around, specifically above the firebox opening will become hot to the touch during operation. This is normal, no action is necessary.

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

Contact a dealer to arrange a service call by a qualified service technician.

B. IntelliFire™ Control System

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
Pilot won't light. The igniter/module makes noise, but no spark.	Incorrect wiring	Verify "S" wire (white) for sensor and "I" wire (orange) for igniter are connected to correct terminals on module.
	Loose connection or electrical short in the wiring.	Verify no loose connections or electrical short in wiring from module to pilot assembly. Verify igniter and flame sense wires are not grounding out to chassis, or any other metal object.
	Igniter gap is too large	Verify gap of igniter to side of pilot hood. The gap should be approximately .125 in. or 1/8 in. (3 mm).
Pilot won't light, there is no noise or spark.	Depleted batteries or batteries installed incorrectly.	Replace (2) D-size batteries, located on the right or left side of appliance.
	No power, transformer installed incorrectly. (If applicable)	Verify that transformer is installed and plugged into module. Check voltage of transformer at connection to module. Acceptable readings of a good transformer are between 3.2 and 2.8 VAC.
	A shorted or loose connection in wiring or wiring harness.	Verify wiring harness securely connected to control module. Verify pilot assembly wiring to control module. Verify continuity of each wire in wiring harness. Replace any damaged components.
	Junction box Wiring (If applicable)	Verify that 110-120 VAC power is supplied to junction box.
	Control Module not grounded	Verify black ground wire from control module wire harness is grounded to metal chassis of appliance.

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
Pilot sparks, but pilot will not light.	Pilot covered with media	Verify that the pilot is clear of all media. If covered, remove media and restart.
	Gas supply is off or lacking pressure	Verify that incoming gas line ball valve is open. Verify that inlet pressure reading is within acceptable limits.
	Igniter gap is too large	Verify gap of igniter to side of pilot hood. The gap should be approximately .125 in. or 1/8 in. (3 mm).
	Control Module not grounded	Verify black ground wire from control module wire harness is grounded to metal chassis of appliance.
	Pilot solenoid (orange) voltage is out of spec.	Verify that 1.5 to 1.8 VDC is supplied to pilot solenoid (orange) from control module. If below 1.5 volts, replace module. If 1.5 volts or greater, replace valve.
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 shorted or loose connection from thermocouple or thermocouple module.	Verify no loose connections or electrical short in wiring from module to pilot assembly. Verify igniter and flame sense wires are not grounding out to chassis, or any other metal object.
	Poor flame rectification or contaminated flame sensing rod.	Verify correct pilot orifice is installed and gas inlet is set to pressure specifications. Check pilot for soot. Clean if necessary. Polish flame sensing rod with fine steel wool to remove any contaminants that may have accumulated on flame sensing rod.
	Control Module not grounded	Verify black ground wire from control module wire harness is grounded to metal chassis of appliance.
	Damaged pilot assembly or contaminated flame sensor.	Verify connection from thermocouple to thermocouple module, check thermocouple for contaminants. Clean if necessary. Replace pilot if any damage is detected.
	Control Module	Turn switch to the “OFF” position. Remove ignitor wire “I” from control module. Turn switch to the “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.

Contact your dealer for additional information regarding operating and troubleshooting.

Visit www.hearthnhome.com to locate a dealer

12 Service Parts

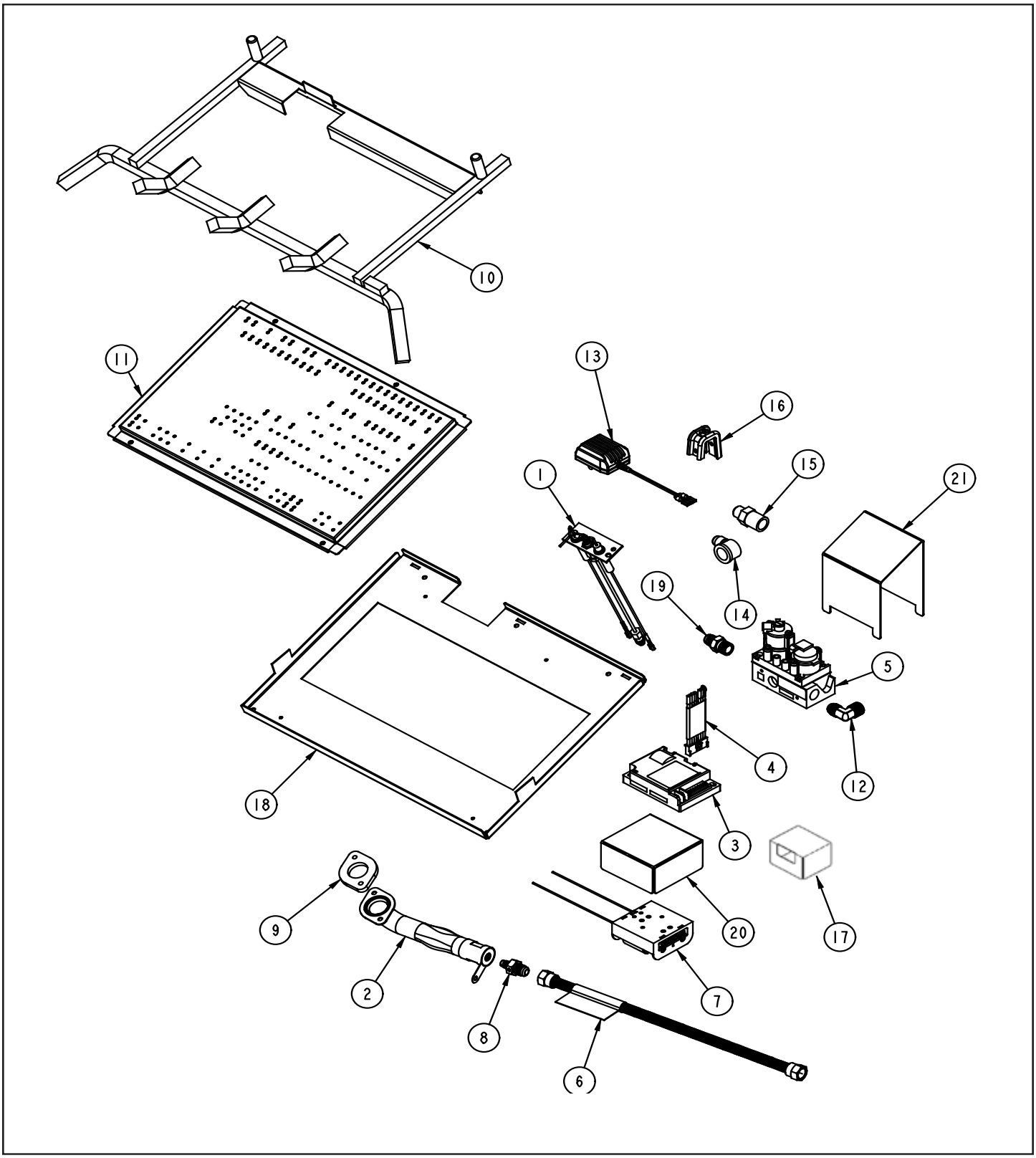
A. Service Parts

HEARTH & HOME technologies

Service Parts **RB-18-24NI - RB-18-24PI**

Radiant 24-18” Hearth Kit

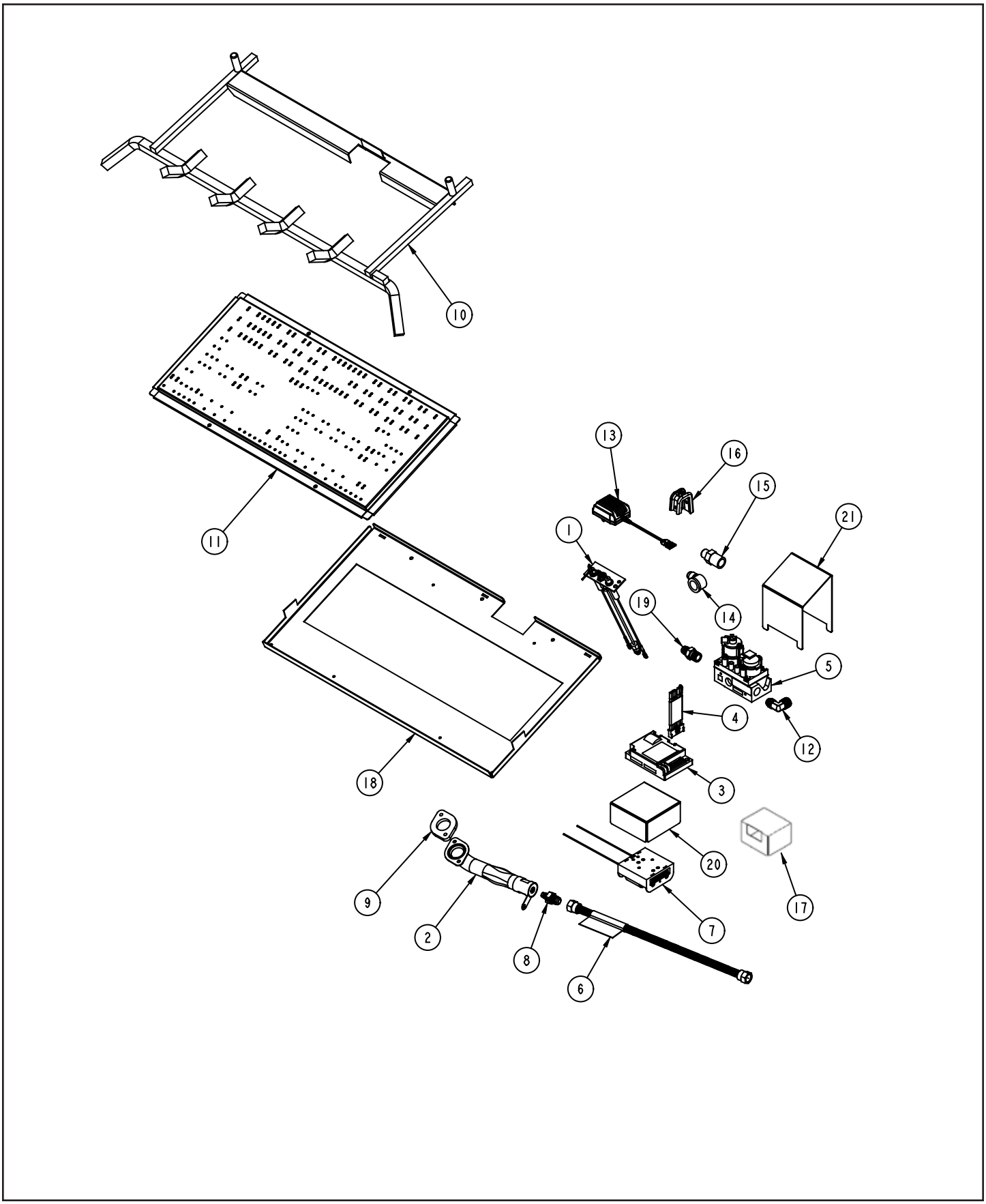
Beginning Manufacturing Date: May 2024
Ending Manufacturing Date: Active



Beginning Manufacturing Date: May 2024
Ending Manufacturing Date: Active

IMPORTANT: THIS IS DATED INFORMATION. Parts must be ordered from a dealer or distributor. **Hearth and Home Technologies does not sell directly to consumers**. Provide model number and serial number when requesting service parts from your dealer or distributor.

ITEM	DESCRIPTION	COMMENTS	PART NUMBER	Stocked at Depot
1	Pilot Assembly	NG	SRV2106-169	**Y**
		LP	SRV2106-170	**Y**
2	Venturi Assembly (Includes gasket and screws)	NG	SRV4018-073	
		LP	SRV4099-033	
3	Control Module		SRV593-592	**Y**
4	Wire Assembly		SRV593-590	**Y**
5	Fixed Dexen Valve	NG	SRV593-500	**Y**
		LP	SRV593-501	**Y**
6	Flex Gas Line SS 16 NW		SRV4121-006	
7	Battery Pack		SRV593-594	**Y**
8	Orifice Flare	NG	SRV4018-401	
		LP	SRV4018-381	
9	Venturi Gasket		SRV4099-191	
10	Grate Assembly		SRV4660-036	
11	Burner Pan Weldment		SRV4660-005	
12	SAE 90 MLE Elbow 3/8TX 3/8		SRV27D7307	
13	3V Transformer	Accessory	SRV593-593	**Y**
14	3/8 Flare to 1/2 Female		SRV27D5134	
15	Fitting 1/2 MPT to 3/8 Flare		SRV27D7306	
16	Beam Clamp		SRV00F0545	
17	Remote Control Cover		SRV4660-120	
18	Chassis		SRV4660-107	
19	Male Connector		SRV303-315	
20	D Batt Shield		SRV4660-118	
21	Shield	Req Qty 2	SRV4660-114	
	Dual Lock Pair 2” Velcro (Not Shown)		SRV4121-200	
	RCB Remote (Not Shown)		RCB	
	Conversion Kits			
	LP Conversion Kit (Not Shown)		SRV4660-051	
	NG Conversion Kit (Not Shown)		SRV4660-050	


10
11
18
13
16
15
21
1
19
14
5
4
12
3
20
17
9
2
8
7
6

Beginning Manufacturing Date: May 2024
Ending Manufacturing Date: Active

IMPORTANT: THIS IS DATED INFORMATION. Parts must be ordered from a dealer or distributor. **Hearth and Home Technologies does not sell directly to consumers**. Provide model number and serial number when requesting service parts from your dealer or distributor.

ITEM	DESCRIPTION	COMMENTS	PART NUMBER	Stocked at Depot
1	Pilot Assembly	NG	SRV2106-169	**Y**
		LP	SRV2106-170	**Y**
2	Venturi Assembly (Includes gasket and screws)	NG	SRV4018-073	
		LP	SRV4099-033	
3	Control Module		SRV593-592	**Y**
4	Wire Assembly		SRV593-590	**Y**
5	Fixed Dexen Valve	NG	SRV593-500	**Y**
		LP	SRV593-501	**Y**
6	Flex Gas Line SS 16 NW		SRV4121-006	
7	Battery Pack		SRV593-594	**Y**
8	Orifice Flare	NG	SRV4095-346	**Y**
		LP	SRV4095-345	**Y**
9	Venturi Gasket		SRV4099-191	
10	Grate Assembly		SRV4661-036	
11	Burner Pan Weldement		SRV4661-005	
12	SAE 90 MLE Elbow 3/8TX 3/8		SRV27D7307	
13	3V Transformer	Accessory	SRV593-593	**Y**
14	3/8 Flare to 1/2 Female		SRV27D5134	
15	Fitting 1/2 MPT to 3/8 Flare		SRV27D7306	
16	Beam Clamp		SRV00F0545	
17	Remote Control Cover		SRV4660-120	
18	Chassis		SRV4661-107	
19	Male Connector		SRV303-315	
20	D Batt Shield		SRV4660-118	
21	Shield	Req Qty 2	SRV4660-114	
	Dual Lock Pair 2” Velcro (Not Shown)		SRV4121-200	
	RCB Remote (Not Shown)		RCB	
	Conversion Kits			
	LP Conversion Kit (Not Shown)		SRV4660-051	
	NG Conversion Kit (Not Shown)		SRV4660-050	

13 Reference Materials

A. Accessories

Note: This appliance REQUIRES the use of one of the decorative logs sets listed below.

Decorative Log Sets for use with RB-18-24 Burner

- DUZY2LS-18-24 Ceramic Fiber Log Set for RB-18-24 Burners (4 Piece)
- DUZY3LS-18-24 Refractory Cement Log Set for RB-18-24 Burners (6 Piece)
- DUZY5LS-18-24 Ceramic Fiber Log Set for RB-18-24 Burners (8 Piece)

Decorative Log Sets for use with RB-30 Burner

- DUZY2LS-30 Ceramic Fiber Log Set for RB-30 Burners (4 Piece)
- DUZY3LS-30 Refractory Cement Log Set for RB-30 Burners (6 Piece)
- DUZY5LS-30 Ceramic Fiber Log Set for RB-30 Burners (8 Piece)

Media

- DV-RWA Rock Wool, Carton of 12-4 oz. Bags
- VR1000A Volcanic Rock - Carton of 12 - 2 lb. Bags

Power Supply

- ACCK-IPIGM 3V Transformer

Remote Protective Cover

- RRCM Remote Receiver Insulated Cover

Conversion Kits

- SRV4660-050 Natural Gas Conversion Kit for Duzy Series Appliance
- SRV4660-051 Propane Gas Conversion Kit for Duzy Series Appliance

B. Contact Information

Hearth & Home Technologies
7571 215th Street West, Lakeville, MN 55044
www.hearthnhome.com

Please contact your dealer with any questions or concerns.
For the location of your nearest dealer,
please visit www.hearthnhome.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) 7077122, 7074035, 7234932, 7322819, 7422011, 7726300, 8147240, 9625149 or other U.S. and foreign patents pending.

2000-945F

Printed in U.S.A. - Copyright 2016