



TOPAZ DIRECT VENT ROOM HEATER



DISCAR



Owner's Manual Installation and Operation

Model:

839-1290 839-1320 839-1340 844-4120

CAUTION DO NOT DISCARD THIS MANUAL



Solitaire Front



Important operating and • maintenance instructions included.

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

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

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



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

WARNING

HOT! DO NOT TOUCH. SEVERE BURNS MAY RESULT. **CLOTHING IGNITION MAY RESULT.**

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

- Keep children away.
 - CAREFULLY SUPERVISE children in same room as appliance.
- Alert children and adults to hazards of high temperatures.
- Do NOT operate with protective barriers open or removed.
- Keep clothing, furniture, draperies and other combustibles away.

In the Commonwealth of Massachusetts:

installation must be performed by a licensed plumber or gas • fitter.

See Table of Contents for additional Commonwealth of Massachusetts requirements.

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

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

Congratulations

and Welcome to the Quadra-Fire Family!

With warm regards

Hearth & Home Technologies welcomes you to our tradition of excellence! In choosing a Quadra-Fire appliance, you have our assurance of commitment to quality, durability, and performance.

This commitment begins with our research of the market, including 'Voice of the Customer' contacts, ensuring we make products that will satisfy your needs. Our Research and Development facility then employs the world's most advanced technology to achieve the optimum operation of our stoves, inserts and fireplaces. And yet we are old-fashioned when it comes to craftsmanship. Each appliance is meticulously fabricated and gold and nickel surfaces are hand-finished for lasting beauty and enjoyment. Our pledge to quality is completed as each model undergoes a quality control inspection. From design, to fabrication, to shipping: Our guarantee of quality is more than a word, it's Quadra-Fire tradition, and we proudly back this tradition with a Limited Lifetime Warranty.

We wish you and your family many years of enjoyment in the warmth and comfort of your hearth appliance. Thank you for choosing Quadra-Fire.

Alan Trusler Alan Trusler Alae President bealer Channel	Daniel & Henry Dan Henry Vice President Advanced Technolgies	Jason Olmstead Vice President & General Manager	Steve Tate Quadra-Fire Brand Manager
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A. Appliance Certification

MODEL:	Тораz
LABORATORY: OMNI Test Laboratories, Inc.	
	061-S-24-5
TYPE:	Direct Vent Gas Heater
STANDARD:	ANSI Z21.88a-2000 · CSA 2.33a-M00 · UL307b · CAN/CBA 2.17-M91

The product is listed to ANSI standards for "Vented Gas Appliance Heaters" and applicable sections of "Gas Burning Heating Appliances for Manufactured Homes and Recreational Vehicles" and "Gas Fired Appliances for use at High Altitudes".

Manufactured Home or Mobile Home installation may occur only after the home is site located and must conform with the Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280, or, when such a standard is not applicable, the Standard for Manufactured Home Installations, ANSI/NCSBCS A225.1, or Standard for Gas Equipped Recreational Vehicles and Mobile Housing, CSA Z240.4.

When installed, the appliance must be electrically grounded in accordance with local codes or, in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70, or the Canadian Electrical Code, CSA C22.1.

B. Glass Specifications

This appliance is equipped with 5mm ceramic glass. Replace glass only with 5mm ceramic glass. Please contact your dealer for replacement glass.

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.



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

C. BTU Specifications

Model (US or Canada)	Maximum Input BTU	Minimum Input BTU	Orifice Size	*Efficiency Up To	**P.4 %
Topaz (NG)	39,500	26,500	.125	85	63
Topaz (LP)	38,000	30,500	.073	85	64

Thermal efficiency maximum pipe with blower on.

** Canada minimum pipe.

D. High Altitude Installations

Omni-Test Laboratories listed gas appliances are tested and approved without requiring changes for elevations from 0 to 2000 feet in the U.S.A. and 0 to 4500 feet in Canada.

When installing this appliance at an elevation above 2000 feet, 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 feet above a 2000 foot elevation in the U.S.A. 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 feet (in Canada), check with local authorities.

E. Non-Combustible Materials

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

F. Combustible Materials

Materials made of or surfaced with wood, compressed paper, plant fibers, plastics, or other materials that can ignite and burn, whether flame proofed or not, or whether plastered or unplastered shall be considered combustible materials. **NOTE:** The following requirements reference various Massachusetts and national codes not contained in this document.

G. Requirements for the Commonwealth of Massachusetts

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

Installation of Carbon Monoxide Detectors

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

In the event that the side wall horizontally vented gas fueled equipment is installed in a crawl space or an attic, the hard wired carbon monoxide detector with alarm and battery backup 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 separated 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 fueled 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 system" 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.



A. Design & Installation Considerations

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

CAUTION

Check building codes prior to installation.

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

When planning an installation, it is necessary to determine the following information before installing:

- Where the appliance is to be installed.
- The vent system configuration to be used.
- · Gas supply piping.
- · Electrical wiring.
- Whether optional accessories devices such as a blower, thermostat or remote control are desired.



🔒 WARNING

Keep appliance dry.Mold or rust may cause odors.Water may damage controls.



Before beginning the installation be sure that the following tools and building supplies are available. Note: Not all tools will apply to every installation.

Reciprocating saw	Variable Speed Drill/Driver
Pliers	Wrench Set
Hammer	Framing Square
Phillips Screwdriver	Framing Material
Flat Blade Screwdriver	Hi temp caulking material
Plumb Line	Voltmeter
Level	Gloves
Manometer	Safety Glasses
Tape Measure	Non-corrosive Leak Check Solution or combustible gas detector

C. Inspect Appliance & Components



Inspect appliance and components for damage. Damaged parts may impair safe operation.

- 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.
- Remove cast door and glass door, and set aside on protective surface. See page 34.
- Remove log set and component pack from firebox.
- 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:

- 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.



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. Selecting Appliance Location

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



A WARNING

Fire Risk Provide adequate clearance:

- Around air openings
- To combustibles
- For service access
- Locate appliance away from traffic areas.



Locate and install appliance to all clearance specifications in manual.

B. Clearances



It is permissable to place the appliance on carpet.

CAUTION

Some carpet materials may be sensitive to radiant heat from the appliance causing discoloration or odor.

NOTE: Flooring beneath appliance may reach 90 degrees plus room ambient temperature. Check with flooring manufacturer for maximum temperature allowed on flooring surfaces.



🕰 WARNING

Fire Risk. Odor Risk.

Tipping Risk

- Install appliance on a stable, level platform/ floor strong enough to support appliance without tipping.
- USE wood flooring, ceramic tile, brick hearth or high pressure laminate flooring applied directly over the sub-flooring material.



A. Vent Termination Minimum Clearances



Figure 4.2 Multiple Vertical Termination

	HORIZONTAL OVERHANG	
2 FT. MIN. TERMINATION CAP	2 FT. LOWEST DISCHARGE OPENING VERTICAL WALL VALL IS X12 H (MIN.) - MINIMUM HEIGHT FROM ROOF TO LOWEST DISCHARGE OPENING	
Roof Pitch	<u>H (Min.) Ft.</u>	
Flat to 6/12		
	1.2	
Over 7/12 to 8/	12 1.5*	
Over 8/12 to 9/12 2.0*		
Over 9/12 to 10/12 2.5*		
Over 10/12 to 11/12 3.25		
Over 11/12 to 12/12 4.0		
Over 12/12 to 14/12		
	16/12	
	20/12	
	21/12	
	minimum in snow regions	
Figure 4.3 Minimum Height from Roof to Lowest Discharge Opening		

Figure 4.3 specifies minimum vent heights for various pitched roofs.



5 Vent Information

A. Venting Components

In order to comply with applicable codes and product warranties, use only following venting components:

- Hearth & Home Technologies (HHT)
- Security Chimney's Secure Vent Chimney System
- Selkirk Metalbestos
- AmeriVent
- Simpson Dura-Vent (SDV)

DO NOT USE FIELD-FABRICATED VENTING COMPONENTS. Refer to the venting manufacturer's instructions.

This product is approved to be vented either horizontally, through the side wall or vertically through the roof. You may vent through a Class A or masonry chimney if an approved adapter is used.

This appliance is a direct vent heater. All combustion air must come directly from the outside of the building. The vent pipe for this unit consists of an inner and an outer pipe. The inner pipe carries the appliance exhaust out of the system, and the outer pipe brings fresh combustion air into the appliance.

- A round support box/wall thimble or heat shield is required when the venting passes through a combustible wall.
- A support box or ceiling firestop is required when the venting passes through a ceiling.
- Roof flashing and a storm collar are required when venting passes through the roof.
- Follow instructions provided with the venting for installation of these items.



Fire Hazard. Explosion Risk.

Asphyxiation Risk.

Do NOT connect this gas appliance to a chimney flue serving a separate solid-fuel or gas burning appliance.

- Vent this appliance directly outside.
- Use separate vent system for this appliance.

May impair safe operation of this appliance or other appliances connected to the flue.

B. Use of Elbows

CAUTION

ALL vent configuration specifications MUST be followed.

- This product is tested and listed to these specifications.
- Appliance performance will suffer if specifications are not followed.

Diagonal runs have both vertical and horizontal vent aspects when calculating the effects. Use the rise for the vertical aspect and the run for the horizontal aspect. (See **Figure 5.1**.)

Two 45° elbows may be used in place of one 90° elbow. On 45° runs, one foot of diagonal is equal to 8-1/2 in. (216mm) horizontal run and 8-1/2 in. (216mm) vertical run. A length of straight pipe is allowed between two elbows. (See **Figure 5.1**.)



C. Measuring Standards

Vertical and horizontal measurements were made using the following standards.

- Pipe measurements are from center line to center line.
- Horizontal terminations are measured to the outside of the mounting surface (flange of termination cap). See **Figure 4.1** on page 8.
- Vertical terminations are measured to the top of the last pipe before termination cap.
- Horizontal pipe installed level with 1/4 in. rise.

D. How to Use the Vent Graph

- 1. Measure the vertical distance from the center line of the flue pipe to the center of the 90° elbow. On the graph below, draw a horizontal line from that measurement on the vertical axis across until it intersects with the slanted line.
- 2. From the point of this intersection, draw a vertical line to the bottom of the graph.
- 3. The point at which this line meets the bottom line of the graph is the maximum length of the horizontal run.

EXAMPLE 1: If the vertical dimension from the center line of the flue vent to the center of the 90° elbow is 7 ft. (2m), the horizontal run to the outer wall flange must not exceed 16 ft. (5m).

EXAMPLE 2: If the vertical dimension from the center line of the flue vent is 21ft. (6m), the horizontal run to the outer wall flange must not exceed 12 ft. 10 in. (4m).

4. Each 90° elbow is equivalent to 3 ft. (914mm) of vent pipe and each 45° elbow is equivalent to 1ft. (305mm) of vent pipe, and must be subtracted from the vent pipe run. A single horizontal to vertical 90° elbow is already calculated into the allowable 20 ft. (6m) run. Each additional 90° elbow reduces the maximum horizontal distance by 3 ft. (914mm).

EXAMPLE: The use of 3 elbows would reduce the allowable horizontal run to 9 ft. (3 - 1 = 2 elbows x 3 ft. = 6 ft.; 20 ft. max. - 6 ft. = 14 ft. max.).

E. Venting Guidelines

<u>NOTES</u>

The maximum horizontal vent run is 20 ft. (6m) when the vertical vent rise is 10 ft. (3m).

The minimum horizontal vent run is 6 in. (152mm)

Horizontal sections require a 1/4 in. (6mm) rise for every 12 in. (305mm) of horizontal travel.

Exterior Vent Diameter = 6-5/8 in. (168mm); Inner Vent Diameter = 4 in. (102mm).

Horizontal sections require noncombustible support every 3 ft. (914mm), e.g. wall straps.

For any vertical termination a minimum of 6 ft. (2m) vertical must be used.

EXCEPTIONS FOR HORIZONTAL INSTALLATIONS:

*When installing the Topaz in a rear vent configuration with no vertical rise, a Snorkel Kit must be used.

*The maximum horizontal vent run is 3 ft. (914mm).

*The maximum horizontal vent run with a 45° elbow is 2 ft. (609mm).

*The minimum horizontal vent run is 6 in. (152mm).

INDIVIDUAL INSTALLATIONS MAY VARY. PERCENTAGE CLOSED BASED ON FULL RANGE OF DAMPER TRAVEL.

NOTE: If your installation falls within the gray-shaded area on graph, see information on VERTICAL DAMPER ADJUSTMENT in Section 8.



*In the Commonwealth of Massachusetts, the word damper shall be replaced with the words flue restrictor.



On horizontal terminations use Hearth & Home Technologies Part #HHW2, or like components.

Type B - Rear Installations for Use with Rear Vent Kit



(See Section 12 for conversion kit and venting components.) This is the only venting configuration that requires the use of the rear vent derating orifice that comes with the rear vent kit. **NOTE: A Snorkel Kit is required.**

Figure 5.3

Step 1.

Determine the desired location of the appliance. Check to ensure that wall studs or roof rafters are not in the way when the venting system is attached. If this is the case, you may want to adjust the location of the appliance.

Fire Hazard. Exhaust Fume Risk. Impaired Performance of Appliance.

- Ensure vent components are locked together correctly.
- Pipe may separate if not properly joined.

Step 2.

Direct vent pipe is designed with a locking connection. To connect the venting system to the appliance flue outlet, a twist-lock adapter is built into the appliance at the factory. Wall thickness may vary. Remember to include wall thickness in minimum clearances when figuring venting lengths for your installation needs.

Note: Female ends of direct vent pipe/elbows are designed to slide straight onto the male ends of adjacent pipes by orienting the pipe indentations so they match and slide into the entry slots on the male ends, see **Figure 5.4**. Push the pipe sections completely together, then twist-lock one section clockwise approximately one-quarter turn, until the two sections are fully locked. The female locking lugs may not be visible from the outside. They may be located by examining the inside of the female ends.





Step 3.

For installations using a round support box/wall thimble (check pipe manufacturer's instructions), mark the wall for a 10 in. x 10 in. (254mm x 254mm) square hole. The center of the square hole should line up with the center line of the horizontal pipe, as shown in **Figure 5.5**. Cut and frame the hole in the exterior wall where the vent will be terminated. If the wall being penetrated is constructed of noncombustible material, i.e. masonry block or concrete, a 7 in. (178mm) diameter hole is acceptable.



When installing the Sapphire in a rear vent configuration with **no vertical rise**: a Snorkel Kit must be used, and a derating orifice must be installed. The appropriate orifice is supplied with the Rear Vent Kit.

Figure 5.5

NOTE:

- (1) Installation requires a minimum of 6 in. (152mm) horizontal run of vent with a 1/4 in. (6mm) rise run towards the termination. Each 1 ft. (305mm) of horizontal venting must include a 1/4 in. (6mm) rise. Never allow the vent to run downward. This could cause high temperatures and may present the possibility of a house or structure fire.
- (2) The location of the horizontal vent termination on an exterior wall must meet all local and national building codes, and must not be easily blocked or obstructed, see **Figure 4.4** on page 9.
- (3) For installations requiring a vertical rise on the exterior of the building, the HHT RHVK snorkel kit (Part #844-8921) is available with a 14 in. (356mm) and a 36 in. (914mm) tall snorkel termination cap. Follow the same installation procedures as used for standard horizontal terminations. If the snorkel termination must be installed below grade (i.e. basement application), proper drainage must be provided to prevent water from entering the snorkel termination. Do not backfill around snorkel termination.

Step 4.

Position the horizontal termination cap in the center of the 10 in. x 10 in. (254mm x 254mm) square hole and run a bead of non-hardening mastic around its outside edges, so as to make a seal between it and the wall, attach termination cap to the exterior wall with the four wood screws provided. The arrow on the vent cap should be pointing up (**Figure 5.6**).



NOTES:

- (1) The four wood screws provided should be replaced with appropriate fasteners for stucco, brick, concrete, or other types of sidings.
- (2) Termination cap HHW2 (Part #841-0670) is highly recommended on a building with vinyl siding, as the vinyl siding standoff is built in. The pilot hole will be 2 in. (51mm) closer to the bottom of the square than the top. Using a framing square, draw a 14 in. x 14 in. (356mm x 356mm) square around the pilot hole in the siding. See Figure 5.7 on the next page.



(**NOTE:** If you are installing termination cap HHW2, the pipe will be off center on flashing). Ensure that proper clearances to combustible materials are maintained. If you are using an approved termination cap other than HHW2 (part #841-0670) on a building with vinyl siding, a vinyl siding standoff should be installed between the termination cap and the exterior wall (**Figure 5.8**). Follow manufacturer's instructions for attaching the vinyl siding standoff to the horizontal termination cap. The vinyl siding standoff prevents excessive heat from possibly melting the vinyl siding material. The vent terminal cap shall not be recessed into a wall or siding. Remove siding from the area where the standoff will be located.



Step 5.

Place the wall thimble cover over the pipe assembly and slide the appliance and vent assembly towards the wall, carefully inserting the vent pipe into the vent termination cap assembly. It is important that the vent pipe extend into the vent termination cap a sufficient distance so as to result in a minimum pipe overlap of 1-1/4 in. (32mm). Secure the connection between the vent pipe and the vent termination cap by attaching the two sheet metal strips extending from the vent termination cap assembly into the outer wall of

the vent pipe. Use the two sheet metal screws provided to connect the strips to the pipe section (**Figure 5.9**).



Note: The attachment from the vent pipe to the vent termination cap must be sealed with silicone. Termination caps shall not be recessed into a wall or siding.



• Pipe may separate if not properly joined.

Do NOT connect a pipe section to a termination cap without using the telescoping flue section found on the termination cap.

Burn Risk.

autin

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

G. Vertical Termination

1. Direct Vent Pipe



Step 1.

Check the installation instructions for required 1 in. (25mm) clearances (air space) to combustibles when passing through ceilings, walls, roofs, enclosures, attic rafters, or other nearby combustible surfaces. See page 16, **Figure 5.16.** Check the instructions below for maximum vertical rise of the venting system, and any maximum horizontal offset limitations. All offsets must fall within the set parameters of the vent graph (**Figure 5.2**) located on page 11.

NOTE: Maximum vertical rise allowable is 40 ft. (12m) Figure 5.11).

NOTE: Maximum number of 45° elbows permitted for a vertical installation is eight, provided their installation does not decrease maximum allowable horizontal run (as specified by vent graph, on page 11).





Step 2.

Set the gas appliance in its desired location. Drop a plumb bob down from the ceiling to the position of the appliance flue exit, and mark the location where the vent will penetrate the ceiling. Drill a small hole at this point. Next, drop a plumb bob from the roof to the hole previously drilled in the ceiling, and mark the spot where the vent will penetrate the roof. Determine if ceiling joists, roof rafters, or other framing will obstruct the venting system. You may wish to relocate the appliance, or to offset, as shown in **Figure 5.12** to avoid cutting loadbearing members. When location is determined, drill small hole.



Step 3.

To install the round support box/wall thimble cover in a flat ceiling, cut a 10 in. (254mm) square hole in the ceiling, centered on the hole drilled in Step 2. Frame the hole as shown in **Figure 5.13**.



Step 4.

Assemble the desired lengths of pipe and elbows necessary to reach from the appliance up through the round support box. Ensure that all pipe and elbow connections are in their fully twist-locked position. Assemble as instructed.

Step 5.

Cut a hole in the roof centered on the small drill hole placed in the roof in Step 2. The hole should be of sufficient size to meet the minimum requirements for clearance to combustibles, as specified. Continue to assemble lengths of pipe and elbows necessary to reach from the ceiling support box/wall thimble up through the roof line. Galvanized pipe and elbows may be utilized in the attic, as well as above the roofline. The galvanized finish is desirable above the roofline, due to its higher corrosion resistance.

NOTE:

- If an offset is necessary in the attic to avoid obstructions, it is important to support the vent pipe every 3 ft. (914mm) to avoid excessive stress on the elbows, and possible separation. Wall straps are available for this purpose, Figure 5.12, page 15.
- (2) Whenever possible, use 45° elbows, instead of 90° elbows. The 45° elbow offers less restriction to the flow of flue gases and intake air.

Step 6.

Slip the flashing over the pipe section(s) protruding through the roof. Secure the base of the flashing to the roof with roofing nails. Ensure the roofing material overlaps the top edge of the flashing as shown in **Figure 5.14**. Verify that the chimney is the required height above the roof. See roof pitch table, **Figure 4.3**, on page 8.



Step 7.

Continue to assemble pipe sections until the height of the vent (before adding the termination cap) meets the minimum code requirements as outlined in the current CAN/CGA-B149 Installation Codes (in Canada), the National Fuel Gas Code NFPA 54/ANSI Z223.1 (in USA), or local codes. Note that for steep roof pitches, the vent height must be increased. See Roof Pitch Table (**Figure 4.3**, on page 8). In high wind conditions, nearby trees adjoining rooflines, steep pitched roofs, and other similar factors can result in poor draft, or down drafting. In these cases increasing the vent height or switching to the high wind termination cap may solve this problem.

Step 8.

Slip the storm collar over the pipe, and push it down to the top of the flashing (**Figure 5.15**). Use non-hardening sealant above and below the joint between the storm collar and the pipe.



Step 9.

Twist-lock the vent cap and seal.

Note: For multi-story vertical installations, a ceiling firestop is required at the second floor, and any subsequent floors (**Figure 5.16**). The opening should be framed to 10 in. x 10 in. (254mm x 254mm) inside dimensions, in the same manner as shown in **Figure 5.13**.







Fire Risk. Explosion Risk.

Any occupied areas above the first floor, including closets and storage spaces, which the vertical vent passed through must be enclosed. The enclosure may be framed and sheetrocked with standard construction materials; however, refer to these installation instructions for the minimum allowable clearance between the outside of the vent pipe and the combustible surfaces of the enclosure. Do not fill any of the required air space with insulation.

2. Cathedral Ceiling

Step 1.

Follow installation Steps 1 and 2 under vertical installation section, page 15.

Step 2.

Using the plumb-bob, mark the center line of the venting system on the ceiling, and drill a small hole through the ceiling and roof at this point. From the roof, locate the drill hole and mark the outline of the cathedral ceiling support box.

Step 3.

Remove shingles or other roof covering as necessary to cut the rectangular hole for the support box. Cut the hole 1/8 in. (3mm) larger than the support box outline.

Step 4.

Lower the support box through the hole in the roof until the bottom of the support box protrudes at least 2 in. (51mm) below the ceiling (**Figure 5.17**). Align the support box both vertically and horizontally with a level. Temporarily tack the support box in place through the inside walls and into the roof sheathing.



Step 5.

Using tin snips, cut the support box from the top corners down to the roofline, and fold the resulting flaps over the roof sheathing (**Figure 5.18**). Before nailing it to the roof, run a bead of non-hardening mastic around the top edges of the support box to make a seal between it and the roof. Clean out any combustible material from inside the support box.



Step 6.

Complete the cathedral ceiling installation by following the same procedures outlined in steps 7 through 9 for vertical installations, pages 16-17.

Step 7.

Place the support clamp (provided with the support box) inside the support box (at the bottom), and secure to the pipe section. The clamp allows the support box to support the weight of the pipe sections. Continue to add pipe sections until you are above the roofline.

Step 8.

Install the black trim collar around the outside of the cathedral ceiling support box (**Figure 5.19**). The two pieces of the trim collar slide over one another to allow for easy adjustment around the support box. Using the six screws provided, secure the four corners and the overlapping sections of the trim collar to the ceiling. You may want to predrill the holes for the overlapped sections for ease of installation.



3. Class A Metal Chimney



CAUTION

Ensure that existing chimney is functionally sound and clean.

 Have inspection done by qualified chimney sweep or professional installer BEFORE converting to direct vent appliance.

Step 1.

Remove existing chimney cap.

Step 2.

Measure the distance from the top of the chimney to the bottom of the ceiling support box, add 3 in. (76mm) to this measurement, and cut a section of 4 in. (101mm) flex pipe to that length (the flex should be fully extended).

Step 3.

Connect the end of the flex pipe section to the underside of the top adapter, using four sheet metal screws (Figure 5.21).



Step 4.

Pass the flex pipe down through the center of the chimney system, and center the top adapter on the top of the chimney pipe. Drill four 1/8 in. (3mm) diameter holes through the top adapter, and into the chimney top. Ensure that you are drilling into the metal on the chimney. Twist lock the high wind termination cap onto the top adapter (Figures 5.22 and 5.23).





Step 5.

Pull the flex pipe down through the ceiling support box, until it protrudes approximately 3 in. (76mm). Connect the flex pipe to the retro connector, and attach with sheet metal screws.

Step 6.

Push the flex pipe back up into the ceiling support box, center the retro connector, and attach it to the support box with sheet metal screws.

Step 7.

The connection between the appliance and the retro connector may be completed with sections of direct vent pipe.



CAUTION

Ensure that existing chimney is functionally sound and clean.

 Have inspection done by qualified chimney sweep or professional installer BEFORE converting to direct vent appliance.

Step 1.

Before cutting any holes, assemble the desired sections of direct vent pipe to determine the center of the masonry penetration.

Step 2.

Once the center point of the penetration has been determined, cut a 6 in. (152mm) diameter hole in the masonry. If the hole is too large, the retro connector might not mount properly; if the hole is too small, the appliance might starve for intake air. If there is a frame wall in front of the masonry wall, cut and frame a 10 in. (254mm) square opening in the wall (centered around the 6 in. (152mm) masonry opening). If there is sheet rock only (no studs) in front of the masonry the 10 in. (254mm) opening is still needed, but does not need to be framed. If the hole is framed a round support box/wall thimble is required. This allows the retro connector to mount directly on the masonry and provide the correct clearances to combustibles **(Figure 5.25)**.



Step 3.

Secure the flashing to the top of the masonry chimney using a bead of non-hardening sealant-adhesive. If the flashing is larger than the top of the chimney, cut and fold flashing as needed to fit chimney (**Figure 5.26**).



Step 4.

To determine the length of flex needed, measure from 3 in. (76mm) above the top of the flashing down to the level of the opening. Add the distance from the center of the chimney out through the wall. Cut a piece of 4 in. (102mm) flex to this length (extended to its nominal length). Be sure to leave 2-3 in. (51-76mm) of flex above the existing chimney to allow for connection to the termination kit.

Step 5.

Connect the flex liner to the top adapter using three sheet metal screws (**Figure 5.21** page 19).

Step 6.

Feed the flex liner through the flashing into the chimney. Carefully feed the flex liner down the chimney to the bottom and out the opening in the masonry wall, forming an angle to line up the flex liner with the vent opening on the appliance.



Step 7.

If additional lengths of flex liner are needed to span the chimney height, use a flex coupler to connect the pieces of flex liner together. Connect the flex to the coupler by using four sheet metal screws for each side (**Figure 5.27**, on the next page).



Step 8.

Secure the top adapter to the flashing. Use three sheet metal screws through the side of the top adapter into the flange on the flashing (**Figure 5.28**). Twist lock the high wind termination cap on to the top adapter.



Step 9.

Attach the flex to the retro connector. Use three sheet metal screws to attach the flex liner to the connector (**Figure 5.29**). Mount the retro connector to the masonry wall using masonry bolts. Redrill larger holes on connector as needed. Be careful to ensure that the connector is centered in the opening and the mounting holes line up with the masonry wall.



Step 10.

Slide wall thimble cover over retro connector and secure with masonry bolts (**Figure 5.30**). If you have a framed wall in front of the masonry, use wood screws to mount wall thimble cover to framed wall, over retro connector and 10 in. (254mm) square framed opening (**Figure 5.25**, on page 21). If needed, add a section of direct vent pipe to the retro connector in order to extend through the opening in the wall thimble cover.



Step 11.

The connection between the appliance and the retro connector may be completed with sections of direct vent pipe.



A. Fuel Conversions

Before making gas connections ensure that the 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.

1. Converting to LP Gas

NOTE: Gas conversions should only be performed by a qualified service person, and/or where required by state and local codes, licensed installer/service technician. In the Commonwealth of Massachusetts, installation must be performed by a licensed plumber or gas fitter.

<u>KIT CONTENTS</u>: Replacement orifice; replacement pilot injector; and valve regulator.

TOOLS REQUIRED: Power drill (a 90° handle is helpful); #2 Phillips bit; 5/32 in. Allen wrench; 5/8 in. open end wrench.



Figure 6.1 Disconnect power and turn off gas supply if installed. Remove front, glass, and logs if installed. Loosen the shutter adjustment nut (located underneath the appliance) with a 7/16 in. wrench. Slide the shutter to the left (open position).



Figure 6.2 <u>Burner removal:</u> Remove burner by first removing the two screws indicated and lifting the burner out.



Figure 6.3 Remove the three screws on the front of the burner support. Set screws aside.



Figure 6.4 Slide the burner suport to the left to access the orifice.



Figure 6.5 Remove the main burner orifice using a 5/8 in. wrench and replace the orifice with the proper size as indicated below for your gas type and venting.



Figure 6.6 Pull off pilot hood and set it aside.

NOTE: Do not remove the retaining clip from the hood.



Figure 6.7 Use a 5/32 in. Allen wrench to remove the pilot injector.

Replace pilot injector with the one supplied with the appliance (#35 for Propane, #62 for Natural Gas).

Replace pilot hood, snapping it into position, making sure notch and tab line up.

Reinstall burner by placing it into the firebox. Make sure to reinstall all the screws previously removed.

Reinstall logs, glass and front.

PROPANE	NATURAL GAS
.073 (49 DMS)	.0125 (1/8 in.)

2. Valve Regulator Replacement



Remove upper and lower back shield. Loosen the set collars on the extension rods with the 3/32 in. Allen wrench. Remove the rods and adapter cap.



Figure 6.8 Turn control knob to the OFF position, ensure that gas supply to the valve has been turned off. Using a Torx TH20, or slotted screwdriver, remove the three pressure regulator mounting screws (A), pressure regulator tower (B), and diaphragm (C).



Figure 6.9 Ensure that the rubber gasket (**D**) is properly positioned and install the new HI/LO pressure regulator assembly to the valve using the new screws (**E**) supplied with the kit. Tighten screws securely. (Reference torque = 25 in./lb.) Install the enclosed identification label (**F**) to the valve body where it can be seen.

Fill out the conversion label and attach it to the valve cover.



• Do no install a valve or regulator that has been dropped.



Fire Risk. Explosion Risk.

 If the information in these instructions is not followed exactly, a fire, explosion or production of carbon monoxide may result causing property damage, personal injury or loss of life.



The qualified service agency is responsible for the proper installation of this conversion kit. The installation is not proper and complete until the operation of the converted appliance is checked as specified in the manufacturer's instructions supplied with the kit.

B. Gas Pressures

Proper input pressures required for optimum appliance performance, gas line sizing requirements need to be followed from NFPA51.



A WARNING

Fire Risk. Explosion Hazard.

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.

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 the table below.

PRESSURE	NG	LP
Minimum Inlet Pressure	4.5 inches w.c.	11.0 inches w.c.
Maximum Inlet Pressure	7.0 inches w.c.	14.0 inches w.c.
Manifold Pressure on "HI"	3.5 inches w.c.	10.0 inches w.c.

If the pressure is not sufficient, ensure:

- 1) the piping used is large enough.
- 2) the supply regulator is adequately adjusted.

3) that the total gas load for the residence does not exceed the amount supplied.

The supply regulator (the regulator that attaches directly to the residence inlet or to the propane tank) should supply gas at the suggested input pressure listed above. Contact the local gas supplier if the regulator is at an improper pressure.

C. Gas Connection

NOTE: Have the gas supply line installed in accordance with local building codes, if any. If not, follow ANSI Z223.1. Installation should be done by a qualified installer approved and/or licensed as required by the locality. (In the Commonwealth of Massachusetts, installation must be performed by a licensed plumber or gas fitter.)

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

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



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

Leak test all gas line joints and the gas control valve prior to and after starting the fireplace.

Before making the gas connection, ensure that the appliance you are installing is designed for the type of gas being supplied. This information can be found on the Ratings Label under the appliance. If the appliance has been converted to propane (LP), the valve cover should have a label stating that the unit has been converted to propane.

Connect the gas line at the 3/8 in. (9.5mm) pipe connector on the valve at the back of appliance. We recommend connecting the appliance with an approved flex gas line. If flex gas lines are not approved in your area, you must connect a hard pipe to the gas hookup.

You must supply a manual shut-off valve in a visible location within 3 feet (914mm) of the appliance.



 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.

Air only needs to be purged again if gas valve has been turned to the OFF position.

CHECK FOR GAS LEAKS Explosion Risk Fire Risk Asphyxiation Risk

- 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.



Fire hazard.

- Do NOT change the valve settings.
- This valve has been preset at the factory.Changing valve settings may result in fire
- hazard or bodily injury.

Omni-Test Laboratories listed gas appliances are tested and approved without requiring changes for elevations from 0 to 2000 feet in the U.S.A. and 0 to 4500 feet in Canada.

When installing this appliance at an elevation above 2000 feet, 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 feet above a 2000 foot elevation in the U.S.A. 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 feet (in Canada), check with local authorities.

Electrical Information

A. Recommendation for Wire

See B5 below for recommended maximum lead length (two wire) when using wall thermostat/switch.

NOTE: This appliance must be electrically wired and grounded in accordance with local codes or, in the absence of local codes, with **National Electric Code ANSI/NFPA70-latest edition** or the **Canadian Electric Code, CSAC221.1**.

B. Connecting to the Appliance



Wire 110v to electrical junction box. Do NOT wire 110v to the valve. Do NOT wire 110V to wall switch.

A WARNING

- Incorrect wiring will damage millivolt systems.
- 1. This appliance may be used with a wall switch, wall mounted thermostat and / or a remote control.
- 2. If using thermostat, use one compatible with a millivolt gas valve system.
- 3. Follow parameters for locating thermostat (see individual thermostat instructions) to ensure proper operation of appliance.
- 4. Use low resistance thermostat wire for wiring from ignition system to the wall switch and thermostat.
- 5. Use the following chart for wire sizing.

Wire Size	Max. Length	
16 gauge	65 feet	
18 gauge	40 feet	
20 gauge	25 feet	
22 gauge	18 feet	

- 6. Keep wire lengths as short as possible by removing any excess wire length.
- 7. Low voltage and 110 VAC voltage cannot be shared within the same wall box.

- 8. Ensure the thermostat is mounted level for accurate readings.
- 9. The thermostat should be mounted on an inside wall and not in direct line with the appliance convection air.
- 10. If the thermostat is located too close to the appliance, you may need to set the temperature setting slightly higher to maintain the desired temperature in your home.

Do not connect this appliance to a thermostat serving any other appliance.

Bedroom installation in Canada <u>requires</u> this appliance to be connected to a thermostat.



Shock hazard.
This appliance is equipped with a three pronged (grounding) plug for your protection against shock hazard and should be plugged directly into a properly grounded three prong receptacle. Do not cut or remove the grounding prong from this plug.

C. Standing Pilot Ignition System Wiring

This appliance **DOES NOT** require 110 VAC supply for operation. A wiring diagram is shown in **Figure 7.1** on the next page.

This appliance is equipped with a millivolt control valve.



CAUTION

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



• Wire must have high temperature insulation.



A. Remove Shipping Materials

Remove shipping materials from inside or underneath the firebox.

B. Top to Rear Vent Conversion

KIT CONTENTS: Rear vent grille.

TOOLS REQUIRED: Power drill; #2 Phillips bit; high-temp silicone sealant (optional.)



Figure 8.1 Remove top trivet, if installed. Remove vent pipe adapter and gasket. If gasket breaks, apply high-temperature silicone to the bottom of the adapter before installing as indicated in **Figure 8.6**.





Figure 8.2 Remove inner collar adapter



Figure 8.3 Remove rear valve cover shield. Remove rear access plate and gasket. Save the screws.



Figure 8.4 Place cover plate and gasket over top vent and attach with the eight screws previously removed.



Figure 8.5 Insert inner collar adapter to rear vent flue.



Figure 8.6 Install vent pipe adapter with gasket or high-temp silicone to rear vent opening.



Figure 8.7 Place grille gently into the opening on top of the appliance.

C. Leg Leveling System



Figure 8.8 Thread Allen bolts through nuts until flush. The Allen bolts and nuts are included in the component pack inside the appliance firebox.



Figure 8.9 Slide assembled nuts and bolts into the slots on the legs with the nuts on the bottom.



Figure 8.10 Use a 5/32 in. 4mm) Allen wrench to adjust legs up and down to desired level.

D. Accessories

Install approved accessories per instructions included with accessories. Refer to Section 12 for appropriate accessories.



Fronts shipped attached to face

INSTALLATION AND REMOVAL INSTRUCTIONS FOR QUARTET AND SOLITAIRE FACE OPTIONS.



For BOTH Quartet and Solitaire Fronts:



Figure 8.12 To remove the face, loosen the thumb bolt beneath the ashlip.



Figure 8.13 Lift up on the top of the Front, gently pulling out on the bottom. Set aside in a safe location.



Figure 8.14 The quartet door requires the use of a spacer for installation. The spacer is shipped in place and should be put back if removed.

F. Brick Installation

NOTE: The brick supplied with the Topaz is not an optional accessory. The brick must be installed for safe and proper operation.



Figure 8.15 Install rear panel by placing it behind the log pins, flush and centered against the back of the firebox.

NOTE: Rear panel and top panel/baffle are the same size.



Figure 8.16 Install left or right side panel. Place in lower channel and rotate into place.

NOTE: Side brick panels will fit only if installed at an angle. Do not attempt to push the brick flat against the outer wall of the firebox. Brick should rest against spacer on inside of firebox.



Figure 8.17 Bend over tabs to hold panel in place.

Install the top panel/baffle. If rear venting, set damper prior to installing the top panel/baffle. (In the Commonwealth of Massachusetts, the word damper shall be replaced with the word damper shall be replaced with the words flue restrictor.) The back edge will slide in front of the rear brick panel. Rest one end of the top panel/baffle on the installed side panel and support the other end with one hand.

Install the remaining side panel and bend over the tabs to hold it in place. Rest top panel/baffle on sides and slide top panel/baffle left or right until centered.



Figure 8.18 Fully installed brick set. Note that with the brick installed the firebox is narrower at the back than in the front.

G. Positioning the Logs

While still breakable, the logs do not become fragile until after the appliance is burned and they have cured. After curing, any handling must be done with care as breakage can easily occur.

PLEASE NOTE: Logs have been designed to work specifically with the burner of this appliance. Exact placement will ensure proper operation of your gas appliance and reduce sooting.



Figure 8.19 The log set is packed in the components box and consists of the following:

Qty.	Description	#
1	Rear Log	1
1	Left Front Log	2
1	Right Front Log	3
1	Left Twig	4
1	Right Twig	5



Figure 8.20 Insert locator pin into right front log. Insert rear log onto log pan over stud.



Figure 8.21 Insert locator pin into left front log. Place left front log on burner in the grooved provided on the burner surface.



Figure 8.22 Insert locator pin into right front log. Place right front log on burner in the grooves provided on the burner surface.



Figure 8.23 Place right twig over the locator pins on the rear log and the right front log.



Figure 8.24 Place left twig over locator pins on the rear log and the left front log. To complete your log set application reinstall the glass and the front of the unit.

H. Mineral Wool





Figure 8.25 Place individual pieces of embers in front of and around the gas log where they can be seen. Space them so that gas can contact them on all sides. Avoid stacking the embers on top of each other.

NOTE: Do not block gas ports.

I. Glass Door Assembly Replacement

Remove the glass door assembly by opening latches at the bottom front of the appliance, on both the left and right sides. Lift out and away from the appliance.

Replace with a new glass door assembly.



J. Blower Installation

FROM THE KIT YOU WILL NEED: Blower motor; snap disc bracket with wire harness; rheostat, rheostat nut; knob; screws; 1 zip-tie.

TOOLS REQUIRED: #2 Phillips head bit; hand drill; 11/16 in. wrench; and a 5/16 in. wrench.



Figure 8.26 Turn off gas supply, (if gas is connected,) and remove rear shield. Remove blower from packaging. Place blower under appliance. Attach blower from front with 4 screws to blower bracket.



Figure 8.27 Install snap disc in bracket. Attach bracket to firebox with 5/16 in. wrench.



Figure 8.28 Connect electrical connector to snap disc.



Figure 8.29 Install speed control to switch panel. Attach knob to speed control.



Figure 8.30 Reinstall rear shield. Connect blower to power supply and turn on gas supply.

NOTE: This blower utilizes a snap disc to control ON and OFF operation. When the correct temperature is reached, the blower will automatically turn ON. Use the rheostat knob to adjust the fan to High or Low to suit your preferences.



K. Damper Adjustment

FOR TOP OR REAR VENT INSTALLATIONS

See Vent Graph for Recommendations on page 11 before you begin your adjustment. If your installation falls within the range of the gray shaded area of graph, it may be necessary to make an adjustment to the vertical damper to improve the flame appearance in your appliance.



Figure 8.32 TOP VENT INSTALLATIONS:

Locate the damper adjustment on the intake plenum. Access through the appliance front. Adjustor is centered at the top of the appliance.

Make adjustment:

Let appliance warm up before adjusting.

Loosen screw using a Phillips head screwdriver.

Pivot the vertical damper adjustor in 1/4 in. (6mm) increments while observing the flame activity.

Turning clockwise to open damper = less flame height and more blue in flame color.

Turning counterclockwise to close damper = increased flame height and more yellow in flame color.

Make adjustment until flame size and activity suits your personal preference, and then retighten screws on adjustment control.



Figure 8.33 REAR VENT INSTALLATIONS: The rear vent damper is located in the back of the firebox behind the rear brick panel. It is recommended to make adjustment prior to installation.

Remove front/glass/logs and brick if installed. Loosen screws and slide up to suggested settings. Reinstall accordingly... Tighten screws.

L. Shutter Adjustment



Figure 8.34 The shutter is located on the underside of the appliance, on the right side. To adjust the shutter, loosen the wingnut..

Moving the shutter bolt to the right closes the shutter. Moving the shutter bolt to the left, will open the shutter. Opening the shutter causes flames to become shorter and blue. Closing the shutter creates taller orange/yellow flames.

NOTE: Do not close so much as to cause a sooty flame. Improper adjustment can cause sooting in the firebox and/or on the outside of a house with a horizontal termination.

After adjustment, tighten wingnut to lock in place.


Operating Instructions

A. Before Lighting Appliance

Read this entire manual prior to using the appliance. Failure to follow the instructions may result in property damage, bodily injury, or even death.

- Remove all shipping materials from inside and/or underneath the firebox.
- Review proper placement of logs, mineral wool.
- Check the wiring.
- Check the baffle adjustment.
- Ensure that there are no gas leaks.
- Ensure that the glass is sealed and in the proper position.
- Ensure that the flow of combustion and ventilation air is not obstructed (front grilles and vent caps).



Glass door must be in place when appliance is operating.

Risk of: • Combustion Fumes

- Fire
- Do NOT operate appliance with glass door removed.
- Open viewing glass for servicing only.
- Glass door MUST be in place and sealed before operating appliance.
- Only use glass door certified for use with appliance.
- Glass replacement should be done by qualified technician.



A WARNING

HOT! DO NOT TOUCH. SEVERE BURNS MAY RESULT. CLOTHING IGNITION MAY RESULT.

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

- Keep children away.
- CAREFULLY SUPERVISE children in same room as appliance.
- Alert children and adults to hazards of high temperatures.
- Do NOT operate with protective barriers open or removed.
 Keep clothing, furniture, draperies and other combustibles
- away.

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.



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. Controls

FAN SPEED: This knob controls the speed of the blower that pushes the heated air into the room.

MAIN BURNER: This control is used to turn the appliance on and off.

PILOT IGNITOR: The pilot ignitor is used only to start the pilot. When the valve control knob is turned to the pilot position and fully depressed press the piezo ignitor repeatedly creating a blue spark directly next to the pilot, igniting the pilot flame.

VALVE CONTROL: This knob is used to control gas to the appliance and for starting the pilot. There are three positions, **ON, OFF, & PILOT**. The indicator on the valve indicates the position of the knob.

COMFORT CONTROL: This knob controls the flame height from low ("LO") to high ("HI").

NOTE: If using a remote control wall switch, or thermostat, the On/Off Switch must be left "OFF". Turning the On/Off Switch to "ON" will keep the appliance on continually.

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 has a pilot that must be lit manually. When lighting the pilot, follow these instructions exactly.
- 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, don't try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or explosion.
- D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

LIGHTING INSTRUCTIONS

- 1. STOP! Read the safety information above on this label.
- 2. Set the thermostat to the lowest setting (if applicable) and turn off the switch at the control panel.
- 3. Disconnect the power from the appliance.
- 4. Open the door of the appliance. May need to remove face/front first.
- 6. Wait five (5) minutes to clear out any gas. Smell for gas, including near the floor. If you smell gas, STOP! Follow "B" of the safety information above. If you don't smell gas go to the next step.
- 7. Push gas control knob in and turn counterclockwise 🦟 to the pilot position. NOTE: Knob cannot be turned unless knob is pushed in slightly. Do not force.
- 8. PIEZO IGNITER: Press down on the gas control knob in pilot position and simultaneously press the piezo igniter. (This may take many repetitions for lighting.)

ELECTRONIC IGNITER: If the unit is equipped with an electronic igniter it should begin sparking right away.

- 9. The pilot should be visible through the door opening.
- After the pilot is lit, continue holding control knob down for approximately 30 seconds. Release the knob and it will pop back up. Pilot should remain lit. If it goes out, repeat steps 7 through 9.
 - * If the knob does not pop up when released, stop and immediately call your service technician or gas supplier.
- 11. Reinstall door and face. Wait five minutes to allow pilot flame to stabilize and establish proper draft.
- 12. Push down and turn gas control knob counterclockwise \checkmark to "ON".
- 13. Push burner rocker switch on the control panel to "ON". If thermostat is to be used, leave switch in "OFF" position and set the thermostat to desired setting.
- 14. Reconnect electrical power to appliance.

TO TURN OFF GAS TO APPLIANCE

- 1. Set the thermostat to lowest setting.
- 2. Turn off all electric power to the appliance if service is to be performed.
- 3. Push in gas control knob slightly and turn clockwise \frown to "OFF" position.



D. After Appliance is Lit

Initial Break-in Procedure

When you light your 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 on the glass is normal.

NOTE: The 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 to cure the products used in the paint and logs.

During this break-in period it is recommended that some windows in the house be opened for air circulation. This will help avoid setting off smoke detectors, and help eliminate any odors associated with the appliance's initial burning.



- appliance.
- Keep furniture, draperies away from appliance.

CAUTION

- Prevent accidental appliance operation when not attended.
- Unplug or remove batteries from remote control 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 released during initial operation.

- Open windows for air circulation.
- Leave room during initial operation.Smoke may set off smoke detectors.
- Smoke and odors may be irritating to sensitive individuals.



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

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

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. If appliance has not been used for some time, dust can build up and cause an odor.
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 appliance cleaner may be necessary. See your dealer.
Metallic noise	Noise is caused by metal expanding and contracting as it heats up and cools down, similar to the sound produced by a furnace or heating duct. This noise does not affect the operation or longevity of the appliance.

E. Frequently Asked Questions

10 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.

Symptom	Possible Cause	Corrective Action
1. After repeated trig- gering of the piezo	a. Defective ignitor.	Check the spark at the electrode and pilot. If no spark and electrode wire is properly connected, replace the ignitor.
button, the spark ignitor will not light the pilot.	 b. Defective pilot or misaligned electrode (spark at electrode). 	Using a match, light the pilot. If the pilot lights, turn off the pilot and trigger the piezo button again. If the pilot lights, an improper gas/air mixture caused the bad lighting and a longer purge period is recommended. If the pilot will not light, ensure the gap at the electrode and pilot is one-eighth (1/8) inch to have a strong spark. If the gas is OK, replace the pilot.
	c. No gas or low gas pressure.	Check the remote shut-off valve from the appliance. Usually, there is a valve near the gas main. There can be more that one (1) valve from the appliance and the main.
	d. No LP in tank.	Check the LP (propane) tank. You may be out of fuel.
2. The pilot will not stay lit after carefully follow- ing the lighting instruc-	a. Defective thermo- couple.	Check that the pilot flame impinges on the thermocouple. Clean and /or adjust the pilot for maximum flame impingement.
tions.		Ensure that the thermocouple connection at the gas valve is fully inserted and tight (hand tighten plus 1/4 turn).
		Disconnect the thermocouple from the valve, place one millivolt lead wire on the tip of the thermocouple and the other meter wire on the thermocouple copper lead. Start the pilot and hold the valve knob in. If the millivolt reading is less than 15mV, replace the thermocouple.
	b. Defective valve.	If the thermocouple is producing more than 15 millivolts, replace faulty valve.
3. The pilot is burning, there is no gas to the burner, the valve knob is in the ON position, and the ON/OFF switch is in	a. ON/OFF switch or wires defective.	Check the ON/OFF switch and wires for proper connections. Place the jumper wires across the terminals at the switch. If the burner comes on, replace the defective switch. If the switch is OK, place the jumper wires across the switch wires at the gas valve. IF the burner comes on, the wires are faulty or connections are bad.
the ON position.	b. Thermopile may not be generating sufficient millivoltage.	If the pilot flame is not close enough physically to the thermopile, adjust the pilot flame.
	Sumolent minivertage.	Be sure the wire connections from the thermopile at the gas valve ter- minals are tight and that the thermopile is fully inserted into the pilot bracket.
		Check the thermopile with a millivolt meter. Take the reading at TH- TP&TP terminals of the gas valve. The meter should read 325 millivolts minimum, while holding the valve knob depressed in the pilot position, with the pilot lit, and the ON/OFF switch in the OFF position. Replace the faulty thermopile if the reading is below the specified minimum.
		With the pilot in the ON position, disconnect the thermopile leads from the valve. Take a reading at the thermopile leads. The reading should be 325 millivolts minimum. Replace the thermopile if the reading is below the minimum.

Symptom	Possible Cause	Corrective Action	
3. (Continued)	c. Defective valve.	Turn the valve knob to the ON position. Place the ON/OFF switch in the ON position. Check the millivolt meter at the thermopile terminals. The millivolt meter should read greater than 125mV. If the reading is acceptable, and if the burner does not come on, replace the gas valve.	
	d. Plugged burner orifice.	Check the burner orifice for stoppage. Remove stoppage.	
	e. Wall switch or wires are defective.	Follow the corrective action in Symptom and Possible Cause 1.a. Check the switch and wiring. Replace where defective.	
4. Frequent pilot outage problem.	a. Pilot flame may be too high or too low, or blowing (high), causing safety pilot to drop out.	Clean and adjust the pilot flame for maximum flame impingement on thermocouple. Follow lighting instructions carefully.	
5. The pilot and main	a. No LP in tank.	Check the LP (propane) tank. Refill the fuel tank.	
burner extinguish while in operation.	b. Inner vent pipe leaking exhaust gases back into the system.	Check for proper vent connection at flue collar and all vent joints.	
	c. Horizontal vent improperly pitched.	The horizontal vent cap should slope down only enough to prevent any water from entering the appliance.	
	d. Bad thermopile or thermocouple.	Replace if necessary.	
	e. Improper vent cap installation.	Check for proper installation and freedom from debris or blockage.	
6. Glass soots.	a. Flame impinge- ment.	Adjust the log set so that the flame does not excessively impinge on it. Check that logs are placed according to installation instructions.	
	b. Improper shutter setting.	Adjust the air shutter at the base of the burner.	
	c. Debris around opening at base of burner.	Inspect the opening at the base of the burner. NO MATERIAL SHOULD BE PLACED IN THIS OPENING.	
7. Flame burns blue and lifts off burner.	a. Insufficient oxygen being sup- plied.	Ensure that the vent cap is installed properly and free of debris. Ensure that the vent system joints are tight and have no leaks.	
		Ensure that no debris has been placed at the base of, or in the area of the air holes in the center of the base pan beneath the burner.	
		Ensure that the glass is tightened properly on the appliance, particu- larly on top corners.	

Maintaining and Servicing Your Appliance

Although the frequency of your 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.

Risk of injury or property damage.

- Before servicing:
- Turn off gas.
- Turn off electricity to appliance.
- Ensure appliance is completely cooled.
- After servicing:
- Replace front and glass, if removed.
- · Reseal and reinstall any venting removed for servicing.

A WARNING

Annual inspection by qualified technician recommended.

Check:

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

Clean:

- Glass
 Air passage
- Air passageways, grilles, control compartment
- Burner, burner ports. USE CAUTION WHEN CLEANING/ HANDLING CERAMIC BURNER.

Risk of:

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



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



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 glass.
- Do NOT use abrasive cleaners.
- Use a hard water deposit glass cleaner on white film.
- Do NOT clean glass when 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 additional 12 hours.
- Refer to maintenance instructions.



A. Maintenance Tasks

Inspect	Maintenance Tasks		
Doors	1. Inspect for scratches, dents or other damage and repair as necessary.		
	2. Verify no obstructions to air flow.		
	3. Verify maintenance of proper clearance to combustible household objects.		
Gasket Seal, Glass	1. Inspect gasket seal and its condition.		
Assembly and Glass	2. Inspect glass for scratches and nicks that can lead to breakage when exposed to heat.		
	3. Confirm there is no damage to glass or glass frame, Replace as necessary.		
	4. Verify that latches engage properly and glass attachment components are intact and operat- ing properly. Replace as necessary.		
	5. Clean glass. 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 neces- sary.		
	2. Replace appliance if firebox has been perforated.		
Burner Ignition and	1. Verify burner is properly secured and aligned with pilot or igniter.		
Operation	2. Clean off burner top, inspect for plugged ports, corrosion or deterioration. Replace burner if necessary. USE CAUTION WHEN CLEANING/HANDLING CERAMIC BURNER.		
	3. Replace ember material with new dime-size and shape 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 and other flame problems.		
	6. Inspect orifice for soot, dirt or corrosion.		
	7. Verify manifold and inlet pressures. Adjust regulator as required.		
	8. Inspect pilot flame strength. Clean or replace orifice as necessary.		
	9. Inspect thermocouple/thermopile sensor rod for soot, corrosion and deterioration. Clean with emery cloth or replace as required.		
	10. Verify millivolt output. Replace as necessary.		
Venting	1. Inspect venting for blockage or obstruction such as bird nests, leaves, etc.		
	2. Confirm that termination cap remains clear and unobstructed by plants, etc.		
	3. Verify that termination cap clearance to subsequent construction (building additions, decks, fences or sheds) has been maintained.		
	4. Inspect for corrosion or separation.		
	5. Verify weather stripping, sealing and flashing remains intact.		
Remote Controls	1. Verify operation of remote.		
	2. Replace batteries in remote transmitters and battery-powered receivers.		



A. Appliance Dimension Diagram

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



B. Vent Components Diagram



COMPONENTS			
930D	Ceiling Support / Wall Thimble, Black		
941	Cathedral Ceiling Support, Black		
942	Wall Thimble		
908B	6 inch Pipe Length, Black		
907B	9 inch Pipe Length, Black		
906B	12 inch Pipe Length, Black		
904B	24 inch Pipe Length, Black		
903B	36 inch Pipe Length, Black		
902B	48 inch Pipe Length, Black		
911B	11 inch - 14-5/8 inch Pipe Length, Black		
912B	12 inch - 17 inch Pipe, Adjustable, Black		
945B	45 degree Elbow, Black		
990B	90 degree Elbow, Black		
SL-06D	6 inch Pipe		
SL-09D	9 inch Pipe		
SL-12D	12 inch Pipe		
SL-24D	24 inch Pipe		
SL-36D	36 inch Pipe		
SL-48D	48 inch Pipe		
SL-45D	45 degree Elbow		
SL-90D	90 degree Elbow		
SL-F6D	0/12 - 6/12 Roof Flashing		
SL-F12D	7/12 - 12/12 Roof Flashing		
SL-SCD	Storm Collar		
SL-FCD	Ceiling Firestop		
SL-FWD	Wall Firestop		
SL-PSD	Pipe Support Hanger		
950	Vinyl Protector Kit - SL Pipe		
DRC-RADIUS	Decorative Radius Cover		
HTI-DV-WT	Wall Thimble		

TERMINATION KITS			
SLK-01TRD	Trapezoid Termination Kit 7-3/4 inch - 11 inch, 2 Firestops		
SLK-991DA	Vertical Termination Cap - High Wind		
970D	Horizontal Termination Kit (includes 904B, 930D, SLK-01TRD)		
SLK-SNKD	Snorkel Kit		
LINK-STOVE	Adapter Kit (includes 30 ft. of 4 inch flex, apapters, wall thimble, masonry & ZC flashing, 991DA cap and hardware package		
VPK-DV	Vinyl Siding Protector Kit		
841-0670	HHW2 Horizontal High Wind Cap (recommended for optimal performance)		
899-4491	HHW2K Horizontal Kit (one 90 degree black wall thimble, 24 inch black pipe, 11 inch - 14-5/8 inch adjustable vent, HHW2 termination cap)		
844-8921	RHVK Snorkel Kit (with Dura-Vent parts 911B and 940)		
	MISCELLANEOUS		
953	Storm Collar		
963	Ceiling Firestop		
988	Wall Strap		
9456	Attic Insulation Shield		
923GK	Chimney Liner Termination Kit		
923GCL	Co-axial / Co-lineal Appliance Connector		
909B	Retrofit Adj. Chimney Connector Retrofit Chimney Connector Plate		

D. Service Parts List

(NG, LP) Exploded Parts Diagram

Beginning Manufacturing Date: 12-8-03 Ending Manufacturing Date: _____

TOPAZ



Item #	Description	Item #	Description	Item #	Description
1	Face Assembly, Quartet	10	Bulkhead	19	Switch, Rocker, ON/OFF
2	Face Assembly, Solitaire	11	Door Retainer Assembly	20	Igniter, Piezo
3	Door Assembly	12	Side Kit	21	Switch Bracket
4	Burner Assembly	13	Valve Bracket	22	Grille, Rear Vent
5	Pilot Assembly	14	Back Shield, Lower	23	Grille, Top Vent
6	Refractory Assembly	15	Valve, S.I.T. (NG or LP)	24	Тор
7	Log Set	16	Back Shield, Upper	25	Cast Mounting Bracket, Top
8	Air Shutter Assembly	17	Knob, Extension, ON/OFF	26	Cast Mounting Bracket, Bottom
9	Bulkhead Stop	18	Knob, Extension, HI/LO	27	Brick Retainer

D. Service Parts List (cont'd.)



(NG, LP) Exploded Parts Diagram

Beginning Manufacturing Date: 12-8-03 Ending Manufacturing Date: -

Item #	Part Description Alphabetical Order	Part #
	Adapter, DV (4 in.)	200-2470
	Adapter, DV (6-5/8 in.)	7000-162
	Air Deflector	7011-139
8	Air Shutter Assembly	468-5060
	Ash Lip, Matte Black	466-0060MBK
	Ash Lip, Porcelain (specify color - see chart on page 50)	See chart on page 50
	Ash Lip, Powder Coat (specify color - see chart on page 50)	See chart on page 50
14	Back Shield, Lower	7009-107
16	Back Shield, Upper	7009-106
	Blower Bracket	7010-146
27	Brick Retainer	479-0190
10	Bulkhead	26457
9	Bulkhead Stop	474-0090
4	Burner Assembly	BRNR-TOPAZ
	Burner Pan, Left Side	7011-128
	Burner Pan, Rear	7011-126
	Burner Pan, Right Side	7011-127
26	Cast Mounting Bracket, Bottom	7009-102
25	Cast Mounting Bracket, Top	7009-101
	Component Pack (Includes ON/OFF Valve; Mineral Wool; Pilot Injector, EZ, LP, 35; Conversion Regulator, S.I.T., LP; LP Orifice (.073); Conversion Label; Leveling Assembly; Snap Disc Bracket; Owner's Manual; Warranty Card; Consumer Care Card; Touch-up Paint and Fasteners.)	MBK: 7009-003 PMH: 7009-016 CCR: 7009-017 CLG: 7009-012
	Conversion Kit, LP, EZ	844-9230
	Cover Plate	7010-159
	Damper Plate	468-0360
	Dashboard Label	250-7170
3	Door Assembly	7011-003
	Door Assembly, Left, Matte Black	466-5030MBK
	Door Assembly, Left, Porcelain (specify color - see chart on page 50)	See chart on page 50
	Door Assembly, Left, Powder Coat (specify color - see chart on page 50)	See chart on page 50
	Door Assembly, Right, Matte Black	466-5020MBK
	Door Assembly, Right, Porcelain (specify color - see chart on page 50)	See chart on page 50
	Door Assembly, Right, Powder Coat (specify color - see chart on page 50)	See chart on page 50
11	Door Retainer Assembly	7009-008
	Elbow, .375 ML Flare x .375	200-0720
	Elbow, Brass, 3/8 COMP x 3/8 MPT	17524A
	Electrode, S.I.T., EZ, Flush	842-4580
2	Face Assembly, Solitaire, Matte Black	7009-007MBK
2	Face Assembly, Solitaire, Porcelain (specify color - see chart on page 50)	See page 50

DUADRA-FIRE D. Service Parts List (cont'd.)



(NG, LP) Exploded Parts Diagram

Beginning Manufacturing Date: 12-8-03 Ending Manufacturing Date: -

Item #	Part Description Alphabetical Order	Part #
2	Face Assembly, Solitaire, Powder Coat (specify color - see chart on page 50)	See chart on page 50
1	Face Assembly, Quartet, Matte Black	844-9380
1	Face Assembly, Quartet, Porcelain (Must specify color - Mahogany or Crème)	844-4120
1	Face Assembly, Quartet, Powder Coat Creme	466-5000CCR
1	Face Assembly, Quartet, Powder Coat Linden Green	466-5000CLG
	Face, Matte Black	466-0010
	Face, Porcelain (specify color - see chart on page 50)	See chart on page 50
	Face, Powder Coat (specify color - see chart on page 50)	See chart on page 50
	Flex Line 3/8 COMP x 30 in.	200-2940
	Flex Line 3/8 Flare x 22L	7000-197
	Gasket, Cover Plate	7010-160
	Gasket, Elbow	460-0610
	Glass Assembly	7011-015
22	Grille, Rear Vent, Matte Black	844-9830
22	Grille, Rear Vent, Porcelain Crème	844-9840
22	Grille, Rear Vent, Porcelain Mahogany	844-9860
22	Grille, Rear Vent, Porcelain Midnite Blue	844-9870
22	Grille, Rear Vent, Powder Coat Crème	RV-TPZ-CCR
22	Grille, Rear Vent, Powder Coat Linden Green	RV-TPZ-CLG
22	Grille, Rear Vent, Powder Coat Sienna Bronze	RV-TPZ-CSB
22	Grille, Rear Vent, Powder Coat Willow	RV-TPZ-CWL
23	Grille, Top Vent, Matte Black	468-0040MBK
23	Grille, Top Vent, Porcelain	See chart on page 50
23	Grille, Top Vent, Powder Coat	See chart on page 50
	Hinge Assembly	454-5030
	Hinge Pin, Gold	844-5750
	Hinge Pin, Nickel	433-1590
20	Igniter, Piezo	230-0612
	Injector, Pilot, EZ, LP, 35	200-2630
18	Knob, Extension, Valve, HI/LO	842-4020
17	Knob, Extension, Valve, ON/OFF	842-4030
	Latch, Draw	229-0640
	Leveling Assembly	7000-000
7	Log Set	468-5070
	Magnet, Round	7000-140
	Mineral Wool	200-2550
	ON/OFF Valve	15697A
	Orifice, LP, (.073)	24220
	Orifice, NG	24691

D. Service Parts List (cont'd.)



(NG, LP) Exploded Parts Diagram

Beginning Manufacturing Date: 12-8-03 Ending Manufacturing Date: -

Item #	Part Description Alphabetical Order	Part #
	Orifice, Pilot, NG, EZ, #62	842-4440
	Paint, Touch-up, Matte Black	7000-304
	Paint, Touch-up, Porcelain Mahogany	855-1450
	Paint, Touch-up, Powder Coat Crème	TOUCHUP-CCR
	Paint, Touch-up, Powder Coat Linden Green	TOUCHUP-CLG
5	Pilot Assembly, NG	842-4940
6	Refractory Assembly	BRICK-TOPAZ
	Regulator, Conversion, S.I.T., LP	230-1520
	Regulator, Conversion, S.I.T., NG	230-1570
	Relief Door Assembly	7011-011
12	Side Kit, Matte Black	SIDE-TPZ-MBK
12	Side Kit, Porcelain (Must specify color)	SIDE-TPZ-POR
	Snap Disc Bracket	7009-108
	Snap Disc, Ceramic, 125	230-0960
	Speed Control	842-0370
21	Switch Bracket	7009-105
19	Switch, Rocker, ON/OFF	230-0730
	Thermocouple, 34 in.	200-2950
	Thermopile/Generator, Millivolt	842-0250
	Top Mount	468-0420
24	Top, Matte Black	468-0010MBK
24	Top, Porcelain	See chart below.
24	Top, Powder Coat	See chart below.
	Topaz Shipping Kit	842-5140
13	Valve Bracket	7009-104
15	Valve, S.I.T, LP	842-0230
15	Valve, S.I.T, NG	842-0240
	Wire Harness	7009-114

	CAST PARTS - INDIVIDUAL PIECES Add color code to SKU. Example 466-0060MBK						
Item #	Part Description Alphabetical Order	Part #	Color Code				
	Ash Lip	466-0060	MBK - Matte Black	CCR - Powder Coat Cream			
	Door Assembly, Left	466-5030	PBK - Porcelain Black	CLG - Powder Coat Linden Green			
	Door Assembly, Right	466-5020	PBL - Porcelain Blue	CSB - Powder Coat Sienna Bronze			
2	Face Assembly, Solitaire	7009-007	PCR - Porcelain Creme	CWL - Powder Coat Willow			
	Face	466-0010	PGR - Porcelain Green				
23	Grille, Top Vent	468-0040	PMH - Porcelain Mahogany				
24	Тор	468-0010	PMB - Porcelain Midnight Blue				

QUADRA-FIRE E. <u>Accessories</u> (NG, LP) Exploded Parts Diagram

TOPAZ

Beginning Manufacturing Date: 12-8-03 Ending Manufacturing Date: -

Part Description Alphabetical Order	Part #
Blower Assembly with Speed Control (Rheostat)	BK-GAS
Decorative Glass Accent for Solitaire Front, Gold	844-0140
Warming Shelves, Matte Black	844-9780
Warming Shelves, Porcelain Mahogany	844-9810
Warming Shelves, Porcelain Midnite Blue	844-9821
Warming Shelves, Powder Coat Creme	WSLG-CCR
Warming Shelves, Powder Coat Linden Green	WSLG-CLG





LIMITED LIFETIME WARRANTY

The Hearth & Home Technologies limited Lifetime Warranty guarantees that the following components will work as designed for the lifetime of the stove or Hearth & Home Technologies will repair or replace them. These items include but are not limited to steel and cast iron components, all gas burners, gas logs, combustion chambers, heat exchanger systems, stainless steel firebox components, plating, doors, glass damaged by thermal breakage, steel baffle supports, steel and ceramic baffles and manifold tubes. Labor is for the first five years.

THREE YEAR WARRANTY

Our EZ Clean firepots are covered under Hearth & Home Technologies three-year warranty program. Labor is for 3 years.

TWO YEAR WARRANTY

All electrical components such as but not limited to blowers, wiring, vacuum switches, speed controls, control boxes, thermodisc switches, pilot assembly, gas valves, thermostats and remotes are covered under Hearth & Home Technologies two-year warranty program. Effective April, 2005 igniters are also covered under the two year warranty. Labor is for two years.

ONE YEAR WARRANTY

Porcelain and powdercoat finishes are warranted against manufacturer defects for one year. Labor to repair or replace these parts is covered for one year, reimbursed per our warranty service fee schedule.

CONDITIONS

This warranty is non-transferable and is made to the original retail purchaser only provided that the purchase was made through an authorized dealer of Hearth & Home Technologies. It must be installed and operated at all times in accordance with the Installation and Operating Instructions furnished with this product, as well as any applicable local and national codes. Any alteration, willful abuse, accident, or misuse of the product shall nullify this warranty.

Labor to repair or replace items covered under the limited Lifetime Warranty will be covered for the first five years per our warranty service fee reimbursement schedule. Parts covered under the limited Lifetime Warranty will be covered for the lifetime of the appliance up to a maximum of ten (10) years after Hearth & Home Technologies discontinues the model and two (2) years for optional accessories. Adjustments, regular maintenance, cleaning and temporary repairs do not qualify for a service call fee and will not be covered. The replacement of consumer replaceable items and installation of upgraded component parts do not quality for a service call fee, and will not be covered.

This limited Lifetime Warranty does not extend to or include surface finish on the appliance, door gasketing, glass gasketing, glass, firebrick, pellet logs, kaowool or other ceramic insulating materials. It does not cover installation or operationalrelated problems such as overfiring, use of corrosive driftwood, downdrafts or spillage caused by environmental conditions, nearby trees, buildings, hilltops, mountains, inadequate venting or ventilation, excessive offsets, or negative air pressures caused by mechanical systems such as furnaces, fans, clothes dryers, etc.

Any installation, construction, transportation, or other related costs or expenses arising from defective part(s), repair, replacement, etc., will not be covered by this warranty, nor will Hearth & Home Technologies assume responsibility for them. Further, Hearth & Home Technologies will not be responsible for any incidental, indirect, or consequential damages, except as results in damage to the interior or exterior of the building in which this appliance is installed. This limited Lifetime Warranty does not apply to the venting components, hearth components or other accessories used in conjunction with the installation of this product not manufactured by Hearth & Home Technologies

This warranty is void if the stove has been overfired or operated in atmospheres contaminated by chlorine, fluorine, or other damaging chemicals, the stove is subjected to prolonged periods of dampness or condensation, or there is any damage to the stove or other components due to water or weather damage which is the result of, but not limited to, improper chimney or venting installation. Hearth & Home Technologies may, at its discretion, fully discharge all obligations with respect to this warranty by either repairing or replacing the unit, or refunding the wholesale price of the defective part(s).

This limited Lifetime Warranty is effective on all appliances sold after May 1, 2002 and supersedes any and all warranties currently in existence.

Policy 250-8620 Rev J

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G. Contact Information



CONTACT INFORMATION:

Hearth & Home Technologies 1445 North Highway Colville, WA 99114 Division of HHT INDUSTRIES

Please contact your Quadra-Fire dealer with any questions or concerns. For the number of your nearest Quadra-Fire dealer please visit our web site at <u>www.quadrafire.com</u>



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.

	Your Records for Model: Topaz
SERIAL NUMBER:	DEALERSHIP WHERE PURCHASED:
DATE PURCHASED:	
DATE INSTALLED:	
	DEALER TELEPHONE:

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

