

1200-I PELLET INSERT

Owner's Manual Installation and Operation Model:

CB1200MI-MBK





NOTICE

DO NOT DISCARD THIS MANUAL

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



WARNING

Please read this entire manual before installation and use of this pellet fuel-burning room heater. Failure to follow these instructions could result in property damage, bodily injury or even death.

- · Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- · Do not overfire If any external part starts to glow, you are overfiring. Reduce feed rate. Overfiring will void your warranty.
- · Comply with all minimum clearances to combustibles as specified. Failure to comply may cause house fire.

CAUTION

Tested and approved for wood pellets and shelled field corn fuel only. Burning of any other type of fuel voids your warranty.

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 jurisdic-• tion about restrictions, installation inspection, and permits.

WARNING



HOT SURFACES!

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

Hot glass will cause burns.

- Do not touch glass until it is cooled
- NEVER allow children to touch glass
- Keep children away
- CAREFULLY SUPERVISE children in same room as • fireplace.
- Alert children and adults to hazards of high temperatures.

High temperatures may ignite clothing or other flammable materials.

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

NOTE

To obtain a French translation of this manual, please contact your dealer or visit www.guadrafire.com

Pour obtenir une traduction française de ce manuel, s'il vous plaît contacter votre revendeur ou visitez www.quadrafire.com

Ouadra-Fire

Congratulations

and Welcome to the Quadra-Fire Family!

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 unit is meticulously fabricated and 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:

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.

NOTE: Consult insurance carrier, local building inspector, fire officials or authorities having jurisdiction over restrictions, installation inspection and permits.

CLEARANCE TO COMBUSTIBLES LABEL LOCATED INSIDE HOPPER LID SERIAL NUMBER & MANUFACTURE DATE LABEL LOCATED UNDER TOP ON INSIDE OF HOPPER BODY



Safety Alert Key:

- **DANGER!** Indicates a hazardous situation which, if not avoided <u>will</u> result in death or serious injury.
- WARNING! Indicates a hazardous situation which, if not avoided <u>could</u> result in death or serious injury.
- CAUTION! Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
- NOTICE: Indicates practices which may cause damage to the fireplace or to property.

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Listing and Code Approvals

A. Appliance Certification

MODEL:	1200-I Pellet Insert
LABORATORY:	OMNI Test Laboratories, Inc
REPORT NO.	061-S-13-83
TYPE:	Solid Fuel Room Heater/Pellet Fuel Burning Type Insert
STANDARD:	ASTM E1509-95, ULC S628-93, ULC S610-M87, ULC S628-M93 and ULC/ ORD-C1482-M1990 Room Heater Pellet Fuel Burning Type and (UM) 84-HUD, Mobile Home Approved
FCC	Complies with Part 15 of FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This installation must conform with local codes. In the absence of local codes you must comply with the **ASTM E1509-95**, **ULC S628-93**, **ULC S610-M87**, **ULC/ORD-C-1482-M1990**, **(UM) 84-HUD**.

The Quadra-Fire Classic Bay 1200 Pellet Insert meets the U.S. Environmental Protection Agency's emission limits for pellet inserts sold after May 15, 2015.

This pellet insert needs periodic inspection and repair for proper operation. It is against federal regulations to operate this pellet insert in a manner inconsistent with operating instructions in this manual.

B. BTU & Efficiency Specifications

EPA Certification #:	972-14	
EPA Certified Emissions:	1.3 grams per hour	
*LHV Tested Efficiency:	N/A	
**HHV Tested Efficiency:	N/A	
***EPA BTU Output: 11,500 to 34,600 / hr.		
****BTU Input: 15,500 to 46,400 / hr.		
Vent Size: 3 or 4 inches, "L" or "PL"		
Hopper Capacity: 75 lbs.		
Fuel Wood Pellets		
* Weighted average LHV efficiency using data collected during EPA emissions test.		
**Weighted average HHV efficiency using data collected during EPA emissions test.		
***A range of BTU outputs based on EPA Default Efficiency and the burn rates from the low and high EPA tests.		
****Based on the maximum feed rate per hour multiplied by approximately 8600 BTU's which is the average BTU's from a pound of pellets.		

C. Mobile Home Approved

This appliance is approved for mobile home installations when not installed in a sleeping room and when an outside combustion air inlet is provided. The structural integrity of the mobile home floor, ceiling, and walls must be maintained.

The appliance must be properly grounded to the frame of the mobile home and use only listed pellet vent, Class "L" or "PL" connector pipe. A Quadra-Fire Outside Air Kit must be installed in a mobile home installation.

Note: This appliance is also approved for installation into a shop.

D. Glass Specifications

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

E. Electrical Rating

115 VAC, 60 Hz, Start 4.1 Amps, Run 1.1 Amps

NOTE: Some generator or battery back-up systems may not be compatible with the micro-processor electronics on this appliance. Please consult the power supply manufacturer for compatible systems.

Quadra-Fire is a registered trademark of Hearth & Home Technologies.

WARNING! Risk of Fire! Hearth & Home Technologies disclaims any responsibility for, and the warranty and agency listing will be voided by the above actions.

DO NOT:

- Install or operate damaged appliance
- Modify appliance
- Install other than as instructed by Hearth & Home Technologies
- Operate the appliance without fully assembling all components
- Overfire
- Install any component not approved by Hearth & Home Technologies
- Install parts or components not Listed or approved.

Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage.

For assistance or additional information, consult a qualified installer, service agency or your dealer.

Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage.

For assistance or additional information, consult a qualified installer, service agency or your dealer.

NOTE: Hearth & Home Technologies, manufacturer of this appliance, reserves the right to alter its products, their specifications and/or price without notice.

Quadra-Fire

Getting Started

A. Design, Installation & Location Considerations

1. Appliance Location

NOTICE: Check building codes prior to installation.

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

It is a good idea to plan your installation on paper, using exact measurements for clearances and floor protection, before actually beginning the installation

Consideration must be given to:

- Safety, convenience, traffic flow
- Placement of the chimney and chimney connector.
- If you are not using an existing chimney, place the appliance where there will be a clear passage for a factorybuilt listed chimney through the ceiling and roof.
- Installing an optional outside air kit would affect the location of the vent termination.

Since pellet exhaust can contain ash, soot or sparks, you must consider the location of:

- Windows
- Air Intakes
- Air Conditioner
- Overhang, soffits, porch roofs, adjacent walls
- Landscaping, vegetation

When locating vent and venting termination, vent above roof line when possible.

Warning! Risk of Fire Damaged parts could impair safe operation. Do NOT install damaged, incomplete or substitute components.

CAUTION! If burning shelled field corn, you must use approved venting specifically designed for corn to prevent corrosion or degradation. Follow the instructions from the venting manufacturer.

NOTICE: Locating the appliance in a location of considerable air movement can cause intermittent smoke spillage from appliance. Do not locate appliance near:

- Frequently open doors
- Central heat outlets or returns

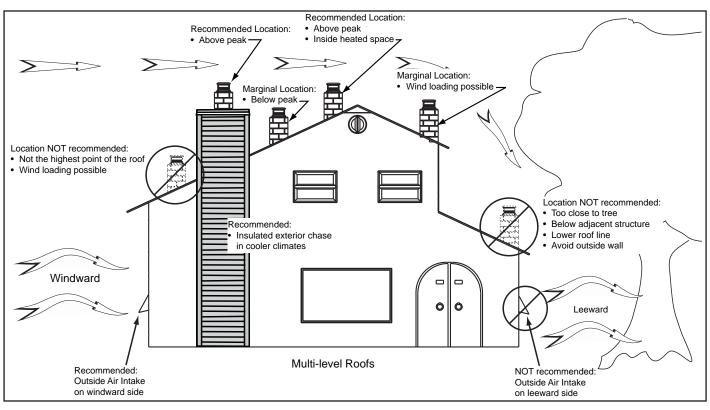


Figure 5.1

B. Locating Your Appliance & Chimney

Location of the appliance and chimney will affect performance.

- Install through the warm airspace enclosed by the building envelope. This helps to produce more draft, especially during lighting and die-down of the fire.
- Penetrate the highest part of the roof. This minimizes the effects of wind loading.
- Locate termination cap away from trees, adjacent structures, uneven roof lines and other obstructions.
- Minimize the use of chimney offsets.
- Consider the appliance location relative to floor and ceiling and attic joists.
- Take into consideration the termination requirements on **Page 14.**

- DO NOT CONNECT THIS UNIT TO A CHIMNEY FLUE SERVICING ANOTHER APPLIANCE.
- DO NOT CONNECT TO ANY AIR DISTRIBUTION DUCT OR SYSTEM.

C. Thermostat Location

The thermostat's location will have some effect on the appliance's operation. When the thermostat is located close to the appliance, it may require a slightly higher temperature setting to keep the rest of the house comfortable. If the thermostat location is in an adjacent room or on a different floor level, you will notice higher temperatures near the appliance.

D. Draft

Draft is the pressure difference needed to vent appliances successfully. When an appliance is drafting successfully, all combustion by-products are exiting the home through the chimney.

Considerations for successful draft include:

- Preventing negative pressure
- Location of appliance and chimney

NOTICE: Hearth & Home Technologies assumes no responsibility for the improper performance of the chimney system caused by:

- Inadequate draft due to environmental conditions
- Downdrafts
- Tight sealing construction of the structure
- Mechanical exhausting devices

E. Negative Pressure

WARNING! Risk of Asphyxiation! Negative pressure can cause spillage of combustion fumes and soot.

Negative pressure results from the imbalance of air available for the appliance to operate properly. It can be strongest in lower levels of the house.

Causes include:

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

To minimize the effects of negative air pressure:

- Install the outside air kit with the intake facing prevailing winds during the heating season
- Ensure adequate outdoor air for <u>all</u> combustion appliances and exhaust equipment
- Ensure furnace and air conditioning return vents are not located in the immediate vicinity of the appliance
- Avoid installing the appliance near doors, walkways or small isolated spaces
- Recessed lighting should be a "sealed can" design
- · Attic hatches weather stripped or sealed
- Attic mounted duct work and air handler joints and seams taped or sealed

A WARNING

Fire Hazard.

- Do not operate appliance before reading and understanding operating instructions.
- Failure to operate appliance properly may cause a house fire.

F. Fire Safety

To provide reasonable fire safety, the following should be given serious consideration:

- Install at least one smoke detector on each floor of your home.
- Locate smoke detector away from the heating appliance and close to the sleeping areas.
- Follow the smoke detector manufacturer's placement and installation instructions and maintain regularly.
- A CO detector should be installed in the room with the appliance.
- Conveniently locate a Class A fire extinguisher to contend with small fires.
- In the event of a hopper fire:
 - Evacuate the house immediately.
 - Notify fire department.



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.



A WARNING

Fire Risk.

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

- Installation and use of any damaged appliance.
- Modification of the appliance.
- Installation other than as instructed by Hearth & Home Technologies.
- Installation and/or use of any component part not approved by Hearth & Home Technologies.
- Operating appliance without fully assembling all components.
- Operating appliance without legs attached (if supplied with unit).
- Do NOT Overfire

Or any such action that may cause a fire hazard.

G. Tools And Supplies Needed

Tape Measure

Framing Material

Hi-temp Caulking Material

Plumb Line

Level

Gloves

Tools and building supplies normally required
for installation, unless installing into an existing
masonry fireplace:Reciprocating Saw
Channel LocksSafety Glasses
Framing Square
Electric Drill & Bits (1/4")Hammer
Phillips Screwdriver1/4" Self-Tapping Screws

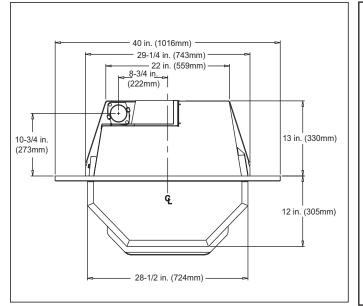
<u>May also need:</u> Vent Support Straps Venting Paint

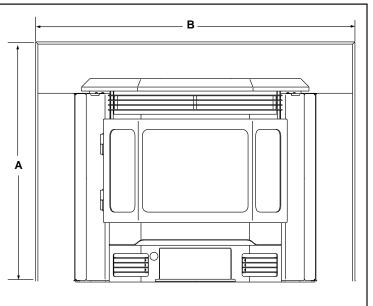
H. Inspect Appliance & Components and Pre-Use Check List

1.	Place the appliance in a location near the final installation area and follow the proce- dures below:	
2.	Open the appliance and remove all the parts and articles packed inside the Component Pack. Inspect all the parts and glass for ship- ping damage. Contact your dealer if any irregu- larities are noticed.	
3.	All safety warnings have been read and fol- lowed.	
4.	This Owner's Manual has been read.	
5.	Floor protection requirements have been met.	
6.	Venting is properly installed.	
7.	The proper clearances from the appliance and chimney to combustible materials have been met.	
8.	The masonry chimney is inspected by a profes- sional and is clean, or the factory built metal chimney is installed according to the manufac- turer's instructions and clearances.	
9.	The chimney meets the required minimum height.	
10.	All labels have been removed from the glass door.	
11.	Plated surfaces have been wiped clean, if applicable.	
12.	Thermostat or remote has been installed.	
13.	A power outlet is available nearby.	



A. Appliance Dimensions





QUADRA-FIRE

Figure 8.1 - Top View

Figure 8.2 - Front View

Panel	А	В
Standard	30 inches (762mm)	40 inches (1016mm)
Large	33 inches (838mm)	50 inches (1270mm)

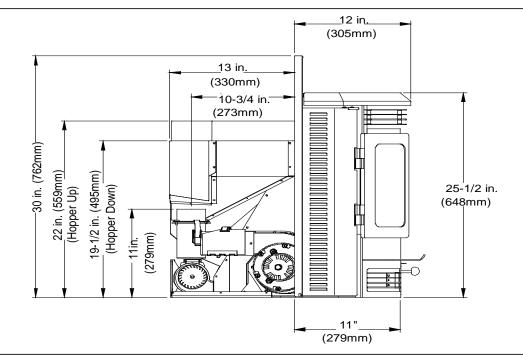
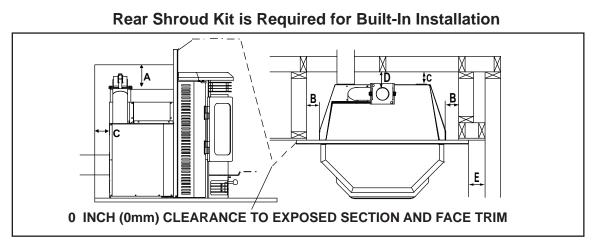


Figure 8.3 - Side View

B. Clearance To Combustibles, UL and ULC

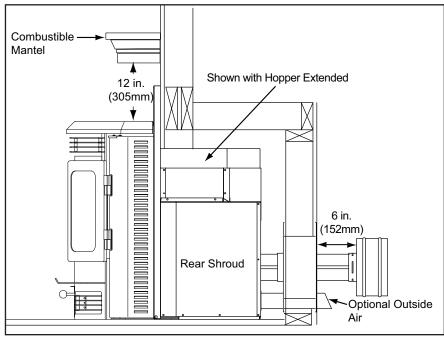


AS A BUILT-IN

Figure 9.1

			Inches	Millimeters
А	Top of Shroud	Top Vent	3.0	76
		Rear Vent	0	0
В	Sides of Inside Shroud	Top or Rear Vent	0	0
С	Back of Inside Shroud	Top Vent	2.5	64
		Rear Vent	0	0
D	Vent Pipe to Combustible	Top or Rear Vent	3.0	76
E	From Outside Edge of Panel Set to Combustibles		0	0

INSTALLED AS A BUILT-IN UNIT Shown with Rear Vent and Optional Outside Air



NOTICE:

Please note that while the minimum clearance for the termination cap is 6 inches (152mm) there is the possibly of soot buildup around the termination area. If this occurs we suggest to move the termination further away from the house to prevent it.

WARNING

Fire Risk.

Comply with all minimum clearances to combustibles as specified.

Failure to comply may cause house fire.

NOTE:

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

Figure 9.2

C. Minimum Clearances To Combustibles for Masonry and Zero Clearance Fireplaces

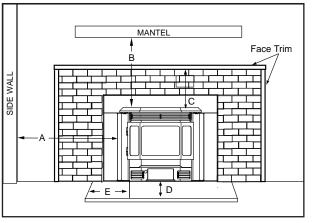


Figure 10.1

		Inches	Millimeters
A	Louvers to combustible side wall	6	153
В	Insert top to mantel	12	305
С	Top to Face Trim	3	76
D	Hearth Extension - Front	6	153
E	Hearth Extension - Sides	8	203

D. Minimum Opening for Masonry and Zero Clearance Fireplaces for Built-In Using Rear Shroud

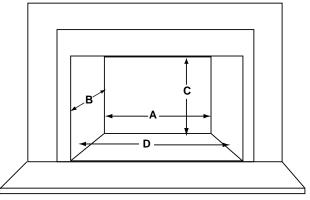
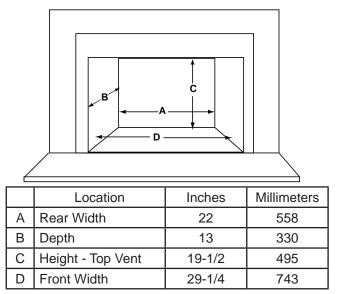


Figure 10.2

		Inches	Millimeters
Α	Rear Width	22	558
В	Depth	15-1/2	393
C*	Height - Top Vent	25-1/2	647
	Height - Rear Vent	22-1/2	571
D	Front Width	29-1/4	743

*The size of your floor protector choice must be added to this dimension. If using Quadra-Fire floor protector, Part 811-0730, allow 1-1/2 inches (38mm).

E. Masonry Minimum Opening



F. Floor Protection

1. Zero Clearance Installations*

It is necessary to install a floor protection of non-combustible material with a R value of 3.0 (1 inch [25mm] minimum thickness with a "k" value of 0.58) or a 1 inch (25mm) air space between insert base and hearth.

2. Non-Zero Clearance Installations*

A non-combustible floor protector is required with a minimum R value of 3.0 (1 inch [25mm] minimum thickness with a "k" value of 0.58) extending 6 inches (153mm) in front of the insert and 8 inches (203mm) to each side of the door opening.

* See alternate floor protection worksheet.

NOTE: A Quadra-Fire floor protector (Part 811-0730) is available through your dealer to be used as a floor protector for the section under the insert body only. Floor protection to front and sides of insert unit must be supplied in addition to this part.

G. Calculating Alternate Floor Protection Material

Thermal Conductivity: k value

The k value indicates the amount of heat (in BTU's) that will flow in 1 hour through 1 square foot of a uniform material 1 inch thick for each degree (F) of temperature difference from one side of the material to the other. The LOWER the k factor means less heat is being conducted through the non-combustible material to the combustible material beneath it. The k value of a material must be equal or smaller then the required k value to be acceptable.

> (BTU) (inch) (foot² (hour) (°F)

Thermal Resistance: R value

The R value is a measure of a material's resistance to heat transfer. R value is convenient when more than one material is used since you can add the R values together, whereas you can not do this for k value. The HIGHER the R factor means less heat is being conducted through the non-combustible material to the combustible material beneath it. The R value of a material must be equal or larger then the required R value to be acceptable.

Converting k to R:

Divide 1 by k and multiply the results times the thickness in inches of the material.

R = 1/k x inches of thickness

Converting R to k:

Divide the inches of thickness by R.

k = inches of thickness/R

Calculations:

Example: Floor protection requires k value of 0.84 and 3/4 inch thick.

Alternative material has a k value of 0.6 and is 3/4 inch thick.

Divide 0.6 by .75 = k value of 0.80. This k value is smaller than 0.84 and therefore is acceptable.

H. Installation into a Factory-Built Fireplace

The following modifications are permissible:

- Removal of damper or locked in open position
- Removal of smoke shelf or baffle
- Removal of ember catches
- Removel of fire grate
- Removal of view screen/curtain
- Removal of doors
- Removal of factory-built fireplace floor
- External trim pieces which do not affect the operation of the fireplace may be removed providing they can be stored on or within the fireplace for reassembly if the insert is removed.
- The permanent metal warning label provided must be attached to the back of the fireplace, with screws or nails, stating that the fireplace may have been altered to accommodate the insert, and must be returned to original condition for use as a conventional fireplace. Figure 12.1

WARNING

THIS FIREPLACE MAY HAVE BEEN ALTERED TO ACCOMMODATE AN INSERT. IT MUST BE RETURNED TO ITS ORIGINAL CONDITION BEFORE USE AS A SOLID FUEL BURNING FIREPLACE. 250-2061

Figure 12.1

- If the hearth extension is lower than the fireplace opening, the portion of the insert extending onto the hearth must be supported.
- Manufacturer designed adjustable support kit can be ordered from your dealer.

NOTE: Refer to chimney liner manufacturer for recommendations on supporting the liner. Installation into fireplaces without a permit will void the listing.•

- The firebrick (refractory), glass doors, screen rails, screen mesh and log grates can be removed from a factory-built firebox in order to gain minimum insert opening requirements.
- Any smoke shelves, shields and baffles may be removed from a factory-built firebox <u>if attached with mechanical</u> <u>fasteners.</u>
- The metal floor of the factory-built firebox may be removed to facilitate the installation of the insert only when a 1 inch (25mm) airspace is provided between the insert and the floor of outer wrap.

The following is only one example as there are many different models of factory-built fireplaces.

NOTE: This example is for reference only. Any modifications must not compromise the structural integrity or reduce the protection for combustible materials.

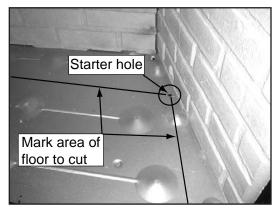


Figure 12.2. Measure and mark the metal floor for cutting. With a drill, make a starter hole in each corner.



Figure 12.3. Using a saws-all, cut out the floor.

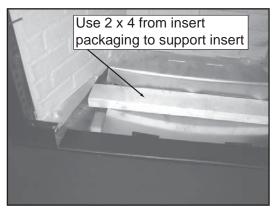


Figure 12.4. If the floor is made of thin metal, we recommend using the 2×4 from the insert packaging to support the insert. The 2×4 may need to be cut to the appropriate size.



Example Removal of Factory-Built Fireplace Cont.

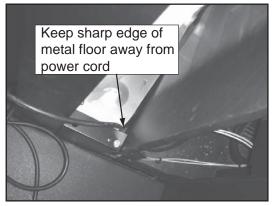


Figure 13.1. Place the insert into the factory-built firebox. Ensure that the power cord can not be damaged by the sharp metal edge. You may need to cut out a notch to accommodate the cord.



Figure 13.2. Ensure that the leveling leg is positioned over the 2×4 before leveling the insert. Minimum 1" clearance.

I. Installation into a Masonry Fireplace

All modifications that can be made to a Factory Built Fireplace can be made to a Masonry Fireplace.

In addition **DO NOT** remove any brick or mortar from the existing fireplace.



- Removing floor of fireplace must not weaken structure of firebox or reduce protection for combustible materials.
- Final approval of this installation type is contingent upon the appropriate local authority having jurisdiction.

J. Prefabricated Metal Chimney

The chimney can be new or existing, masonry or prefabricated and must meet the following minimum requirements:

- •Must be minimum 6 inch (152mm) inside diameter of high temperature chimney listed to UL 103 HT (2100°F) or ULC-S628.
- •Must use components required by the manufacturer for installation.
- •Must maintain clearances required by the manufacturer for installation.
- •Refer to manufacturers instructions for installation
- •This insert is listed to ASTM E 1509-12 Standard and is approved for installation into listed factory-built zero clearance fireplaces listed to UL 127 conforming to the following specifications and instructions:
- •The original factory-built clearance fireplace chimney cap must be re-installed after installing the approved chimney liner meeting type UL 103 HT requirements (2100°F) per UL 1777.
- •If the chimney is not listed as meeting HT requirements, or if the factory built fireplace was tested prior to 1998, a full height listed chimney liner must be installed from the appliance flue collar to the chimney top.
- •The liner must be securely attached to the insert flue collar and the chimney top.
- •The air flow of the factory-built zero-clearance fireplace system must not be altered. The flue liner top support attachment must not reduce the air flow for the existing air-cooled chimney system.

•No dilution air is allowed to enter the chimney.

- 1. Secure the fireplace damper in the open position. If this cannot be accomplished, it will be necessary to remove the damper
- 2. Seal damper area of chimney around chimney connector with a high temperature sealant or seal insert against the face of the fireplace.
- 3. Both methods must be removable and replaceable for cleaning and re-installation.

WARNING

Risk of Fire!



Follow venting manufacturer's clearances and instructions when installing venting system.

NOTICE: In Canada when using a factory-built chimney it must be safety listed, **Type UL103 HT (2100°F)** [1149°C] CLASS "A" or conforming to CAN/ULC-S629M, STANDARD FOR 650°C FACTORY-BUILT CHIMNEYS.

4 Vent Information

A. Venting Termination Minimum Requirements

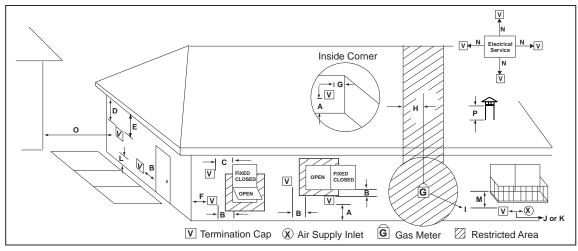


Figure 14.1

All minimum clearances are listed with an Outside Air Kit (OAK) installed, unless otherwise noted in table below.

A	12 in.	Above Finish Grade (the grade surface must be a non-combustible material
В	12 in. 48 in. no OAK	Open door or window: below or to the side
В	12 in.	Open door or window: above
С	6 in.	Permanently closed window: above, below or to the side
D	18 in. 36 in. no OAK	Vertical clearance to a ventilated soffit located above the terminal within a hori- zontal distance of 2 ft from the center-line of the terminal
E	12 in.	Clearance to unventilated soffit
F	12 in.	Clearance to outside corner
G	12 in.	Clearance to inside corner
н	36 in.	Above gas meter/regulator measured from horizontal center-line of regulator
I	36 in. USA 72 in. Canada	Clearance to service regulator vent outlet
J	12 in. 48 in. no OAK	Clearance to non-mechanical air supply inlet to the building or the combustions air inlet to any other appliance
к	10 ft horizontal 3 ft vertical	Clearance to mechanical air supply
L	7 ft.	Above paved sidewalk, paved driveway located on public property
м	12 in.	Under an open veranda, porch, deck or balcony
N	See Note below*	Electric service: above, below or to the side (location must not obstruct or interfere with access)
0	24 in.	Adjacent building, fences and protruding parts of the structure
Р	12 in.	Clearance above roof line for vertical terminations

***NOTE:** Consult local building, fire officials or authorities having jurisdiction. Local codes or regulations may require different clearances.

24 in.	Above grass, top of plants, wood or any other com- bustible
12 in. 36 in. no OAK	Clearance from any forced air intake of other appliance
12 in.	Clearance horizontally from combustible wall
15 in.	Vented directly through a wall, minimum length of horizontal pipe
6 in. horizontal 12 in. vertical	Minimum horizontal or vertical terminations must protrude from wall

NOTICE:

Do NOT Terminate Vent:

- In any location that will allow flue gases or soot from entering or staining the building
- In any location which could create a nuisance or hazard
- In any enclosed or semi-enclosed area such as a carport, garage, attic, crawl space, under a sun deck or porch, narrow walkway
- Closely fenced area, or any location that can build up a concentration of fumes such as a stairwell, covered breezeway, etc.

NOTICE:

Termination must exhaust above air inlet elevation.

- It is recommended that at least 60 inches (1.52m) of vertical pipe be installed when appliance is vented directly through a wall. This will create a natural draft, which will help prevent the possibility of smoke or odor venting into the home during a power outage.
- It will also keep exhaust from causing a nuisance or hazard by exposing people or shrubs to high temperatures.
- The safest and preferred venting method is to extend the vent vertically through the roof or above the roof.

B. Chimney and Exhaust Connection

- 1. <u>Chimney & Connector</u>: Use 3 or 4 inch (76-102mm) diameter type "L" or "PL" venting system. It can be vented vertically or horizontally.
- 2. <u>Mobile Home</u>: Approved for all Listed pellet vent. If using the 3 inch (76mm) vertical Top Vent Adapter Kit or the 3 to 6 inch (76-152mm) Top Vent Offset Adapter, use Listed double wall flue connector. A Quadra-Fire Outside Air Kit must be used with manufactured home installations.
- 3. <u>Residential:</u> The 3 inch (76mm) vertical Top Vent Adapter Kit and the 3 to 6 inch (76-152mm) Top Vent Offset Adapter are tested to use 24 gauge single wall flue connector or Listed double wall flue connector to Class A Listed metal chimneys, or masonry chimneys meeting International Conference of Building Officials (ICBO) standards for solid fuel appliances.
- 4. INSTALL VENT AT CLEARANCES SPECIFIED BY THE VENT MANUFACTURER.
- 5. Secure exhaust venting system to the appliance with at least 3 screws. Also secure all connector pipe joints with at least 3 screws through each joint.
- 6. DO NOT INSTALL A FLUE DAMPER IN THE EXHAUST VENTING SYSTEM OF THIS UNIT.
- 7. DO NOT CONNECT THIS UNIT TO A CHIMNEY FLUE SERVING ANOTHER APPLIANCE.

NOTE: All pipe must be welded seam pipe whenever possible. Seal pipe joints with high temperature silicone (500°F [260°C] minimum rated only). Do not put silicone inside of pipe.

NOTE: If burning shelled field corn, you must use approved venting specifically designed for corn. Follow the instructions from the venting manufacturer.



Fire Hazard.

- Only LISTED venting components may be used.
- NO OTHER vent components may be used. Substitute or damaged vent components may impair safe operation.

Vent surfaces get HOT, can cause burns if touched. Noncombustible shielding or guards may be required.

C. Venting Termination Requirements

CAUTION

Do not terminate vent in any enclosed or semi-enclosed area such as a carport, garage, attic, crawl space, under a sun deck or porch, narrow walkway or closely fenced area, or any location that can build up a concentration of fumes such as a stairwell, covered breezeway, etc.

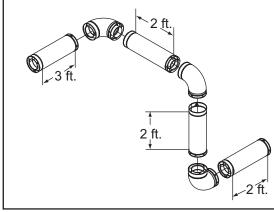
- 1. Termination must exhaust above air inlet elevation. It is recommended that at least 60 inches (1.5m) of vertical pipe be installed when appliance is vented directly through a wall. This will create a natural draft, which will help prevent the possibility of smoke or odor venting into the home during a power outage. It will also keep exhaust from causing a nuisance or hazard by exposing people or shrubs to high temperatures. The safest and preferred venting method is to extend the vent vertically through the roof.
- 2. Distance from doors and opening windows, or gravity or ventilation air inlets into building:
 - a. Not less than 48 inches (1.2m) below;
 - b. Not less than 48 inches (1.2m) horizontally from;
 - c. Not less than 12 inches (305mm) above.
- 3. Distance from permanently closed windows:
 - a. Not less than 12 inches (305mm) below, horizontally from or above.
- 4. Distance between bottom of termination and grade should be 12 inches (305mm) minimum. This is conditional upon plants in the area, and nature of grade surface. The grade surface must be a non-combustible material (i.e., rock, dirt). The grade surface must not be lawn. Distance between bottom of termination and public walkway should be 84 inches (2.1m) minimum.
- 5. Distance to combustible materials must be 24 inches (610mm) minimum. This includes adjacent buildings, fences, protruding parts of the structure, roof overhang, plants and shrubs, etc.
- 6. Termination Cap Location (Home Electrical Service)
 - Side-to-side clearance is to be the same as minimum clearance to vinyl inside corners.
 - Clearance of a termination cap below electrical service shall be the same as minimum clearance to vinyl soffits.
 - Clearance of a termination cap above electrical service will be 12 inches (305mm) minimum.
 - Location of the vent termination must not obstruct or interfere with access to the electrical service.



D. Equivalent Feet of Pipe

The table below can help you calculate the equivalent feet of pipe which is a method used to determine pellet vent size. **See Figure 16.1.**

Example of 3 Elbow-Rear Vent Termination Calculation



Pellet Venting Component	# of Elbows	Feet of Pipe	Multiplied By	Equivalent Feet	Components Equivalent Feet
90 ⁰ Elbow or Tee	3		Х	5	15
45 ^o Elbow			Х	3	
Horizontal Pipe		7	Х	1	7
Vertical Pipe		2	Х	0.5	1
			Total Equ	uivalent Feet	23

WARNING

Improper installation, adjustment, alteration, service or

ance. For assistance or additional information consult a qualified installer, service agency or your dealer.

maintenance can cause injury or property damage. Refer

to the owner's information manual provided with this appli-

Note: This is a generic example and is not intended to represent any specific fuel type.

Figure 16.1

E. Pipe Selection Chart

The chart will help you determine proper venting size according to the equivalent feet of pipe calculated above and the altitude above sea level of this installation. See Figure 16.2.

Locate the calculated equivalent feet of pipe on the vertical left side of the chart. Move to the right horizontally on the chart until you reach your altitude above sea level.

If you fall below the diagonal line, 3 or 4 inch (76 to 102mm) pipe may be used. If it is anywhere above the diagonal line, a 4 inch (102mm) diameter pipe is required.

The chart reveals that a 90° elbow is 5 times as restrictive to the flow of exhaust gases under positive pressure as 1 foot of horizontal pipe, and a foot of horizontal pipe is twice as restrictive as a foot of vertical pipe.

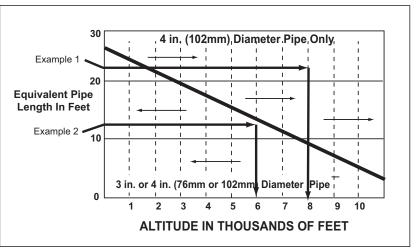
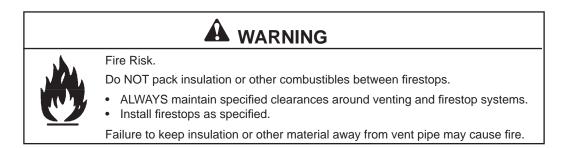


Figure 16.2

Example 1: If the equivalent length of pipe is 23 feet (7m)with altitude of 8,000 feet (2438m) you must use 4 inch (102mm) diameter type "L" or "PL" vent.

Example 2: If the equivalent length of pipe is 12 feet (3.7m) with altitude of 6,000 feet (1829m) you may use 3 or 4 inch (76 to 102mm) diameter type "L" or "PL" vent



Quadra-Fire



A. Full Reline With Outside Air - Horizontal

CAUTION

Never draw outside combustion air from:

- Wall, floor or ceiling cavity
- · Enclosed space such as an attic or garage

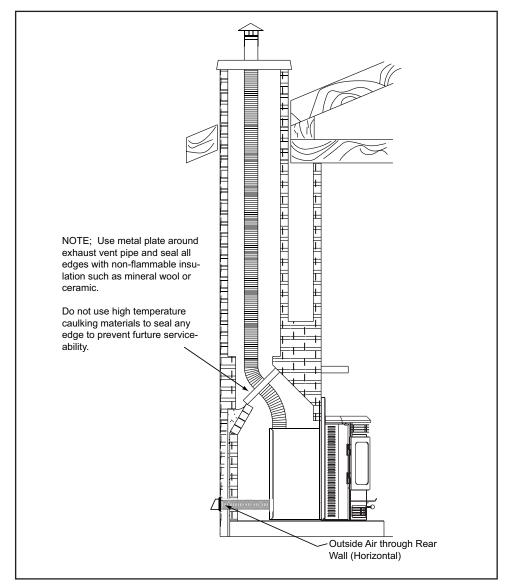
Fire Risk.

WARNING

Inspection of Chimney:

Δ

- Masonry chimney must be in good condition.
- Meets minimum standard of NFPA 211
- Factory-built chimney must be a minimum 6 inch (152mm) UL103 HT.





NOTE:

In Canada, where passage through a wall or partition of combustible construction is desired, the installation shall conform to CAN/CSA-B365.

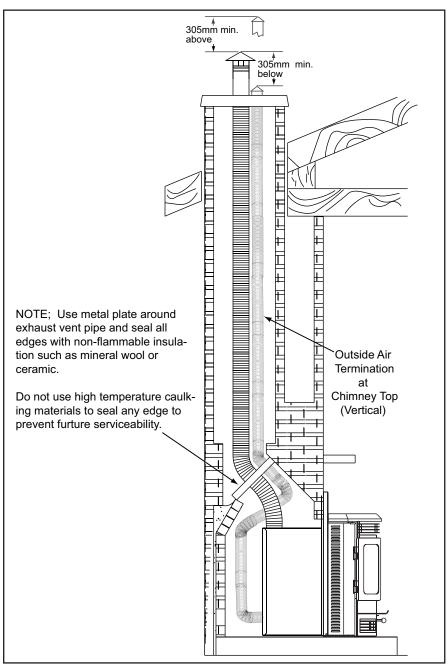
NOTE:

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

B. Full Reline With Outside Air - Vertical

NOTE: Check clearances carefully for this type of installation to ensure adequate room for outside air venting.

NOTE: In Canada only a full reline is allowed per ULC S628, ORD ULC C1482-M1990.





NOTE: In Canada this fireplace insert must be installed with a continuous chimney liner extending from the fireplace insert to the top of the chimney. The chimney liner must conform to the Class 3 requirements of CAN/ULC-S635, Standard for Lining Systems for Existing Masonry or Factory-Built Chimneys and Vents, or CAN/ULC-S640, Standard for Lining Systems for New Masonry Chimneys.

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.

QUADRA · FIRE®



A. Mobile Home Installation

You must use a Quadra-Fire Outside Air Kit for installation in a mobile home.

- 1. An outside air inlet must be provided for the combustion air and must remain clear of leaves, debris, ice and/or snow. It must be unrestricted while the appliance is in use to prevent room air starvation which causes smoke spillage. Smoke spillage can also set off smoke alarms.
- 2. The combustion air duct system must be made of metal. It must permit zero clearance to combustible construction and prevent material from dropping into the inlet or into the area beneath the dwelling and contain a rodent screen.
- 3. The appliance must be secured to the mobile home structure by bolting it to the floor (using lag bolts) in two places. Use the same holes that secured the appliance to the shipping pallet.
- 4. The appliance must be grounded with #8 solid copper grounding wire or equivalent, terminated at each end with an NEC approved grounding device.
- Refer to Clearances to Combustibles and floor protection requirements on pages 9 & 10 for listings to combustibles and appropriate chimney systems.
- 6. Use silicone to create an effective vapor barrier at the location where the chimney or other component penetrates to the exterior of the structure.
- 7. Follow the chimney manufacturer's instructions when installing the vent system for use in a mobile home.
- Installation shall be in accordance with the Manufacturers Home & Safety Standard (HUD) CFR 3280, Part 24.



Installation must comply with Manufactured Home and Safety Standard (HUD), CFR 3280, Part 24.

Asphyxiation Risk.

NEVER INSTALL IN A SLEEPING ROOM. Consumes oxygen in the room.

CAUTION

THE STRUCTURAL INTEGRITY OF THE MOBILE HOME FLOOR, WALL AND CEILING/ROOF MUST BE MAIN-TAINED

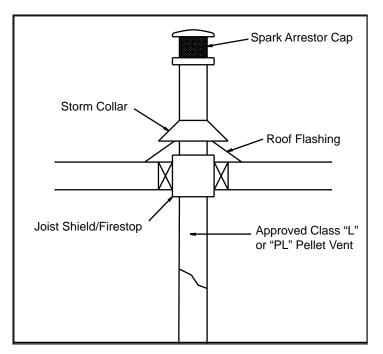
Do NOT cut through:

- Floor joist, wall, studs or ceiling trusses.
- Any supporting material that would affect the structural integrity.

CAUTION

Never draw outside combustion air from:

- Wall, floor or ceiling cavity
- Enclosed space such as an attic or garage





Appliance Set-Up

A. Rear Shroud Installation

1. Top Vent Installations

Parts Required:

Part 811-0680, Rear Shroud Kit. Includes: Six galvanized steel shroud pieces, two cover plates and fastener package.

Part 811-0650, Rear Shroud Top Vent Includes: Vent pipe and two 1/4 - 20 x 3/4 inch bolts with nuts.

Part 811-0660, 3 inch Top Vent Adapter <u>or</u> Part 811-0670, 4 inch Top Vent Adapter

2. <u>Rear vent installations</u>

Parts Required:

Part 811-0680, Rear Shroud Kit.

Part 811-0690, Rear Vent Kit

Includes: Rear Vent Adapter and fastener package.

Tools Required:

Electric drill, 1/8 inch drill bit, Phillips screw driver, 3/8 inch wrench & 7/16 inch wrench, (7/16 inch socket wrench & high temperature silicone adhesive are also required for rear vent installations).

Complete the following procedures, based on your venting installation, prior to installing

the rear shroud kit. (Note: All photos depict top vent installation).

Top Vent Installation Preparation

- 1. Remove the top vent adapter from the vertical exhaust transition pipe. **Figures 20.2 and 20.5.**
- 2. Use 2 screws to attach left corner filler piece of rear shroud to the insert hopper. **Figures 20.1 and 20.2.**
- 3. Use (2) 1/4 20 x 3/4 inch bolts with nuts to install rear shroud top vent to the exhaust transition. See boxed area in **Figure 20.3**. (Circled area, top vent adapter, will be installed later).
- Install the left shroud panel corner at 3 points, 2 screws into back of hopper and 1 down into the filler piece).
 Figure 20.4

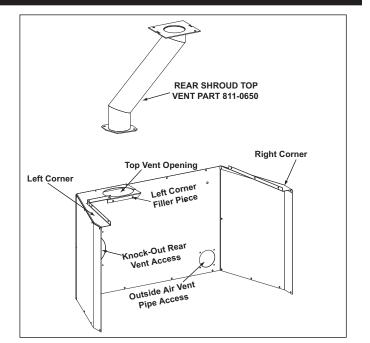


Figure 20.1





Ouadra-Fire

Figure 20.2



Figure 20.4



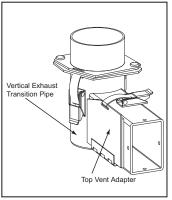
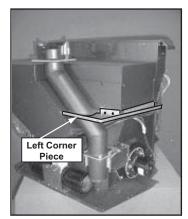


Figure 20.5

Quadra-Fire

Rear Vent Installation Preparation:

- 1. Remove the ENTIRE exhaust blower housing by removing the 4 nuts using a 7/16 inch socket wrench. Set the nuts aside for later use.
- 2. Remove the 4 screws and remove the vertical exhaust transition pipe exhaust blower housing.
- 3. Remove any silicone sealant remaining on the blower housing.
- 4. Attach the rear vent adapter to the exhaust blower housing with 4 screws. **Figure 21.2.**
- 5. Apply a bead of high temperature silicone adhesive around the juncture of the blower housing and rear vent adapter, smoothing it around the joint to ensure that a good seal is made.
- 6. Re-install the exhaust blower housing (now with rear vent adapter attached) with the 4 nuts previously removed in Step 1.
- 7. Use 2 screws to attach left corner filler piece of rear shroud to the insert hopper. **Figures 20.1 & 20.2 on page 20.**
- 8. Install the left shroud corner with 2 screws into the hopper body and 1 down into filler piece. **Figure 21.1.**
- 9. Install cover plate over top vent opening using 4 screws.



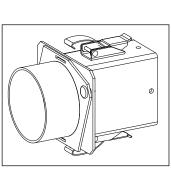


Figure 21.1

Figure 21.2

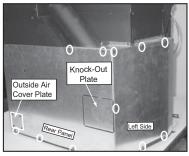
Installing Rear Shroud

<u>Top Vent Applications:</u> Leave knock-out plate in place. Figure 21.3

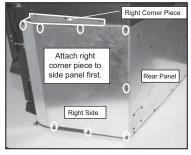
<u>Rear Vent Applications</u>: Clip corners of knock-out plate, remove and discard, prior to assembling rear shroud kit.

- 1. Install rear panel using 4 screws along bottom and 2 screws into the left shroud corner piece at the top. **Figure 21.3**.
- 2. If your installation does not include an outside air kit, attach cover plate with 4 screws.
- 3. Attach left shroud panel using seven screws, 3 on top and bottom and 1 along the side. **Figure 21.3**.

- 4. Assemble the right corner and right panel pieces using 4 screws prior to attaching to insert. **Figure 21.4.**
- 5. After assembly, attach the right shroud panel/corner piece assembly to the insert with 3 screws across the bottom and 1 on the side. **Figure 21.4.**









Attaching Shroud to Hopper Body:

- Beginning at the right shroud panel drill into hopper body through the 3 pre-drilled openings and the 2 pre-drilled openings on the rear shroud panel. Figure 21.5. Continue around to left shroud corner panel at the 2 pre-drilled openings. Figure 21.6. Secure with screws to insert.
- 7. For Top Vent Installation:

Install 3 inch or 4 inch (76 or 102mm) top vent adapter. See circled area in **Figure 20.3 on page 20**. NOTE: This adapter may be attached to outside venting prior to latching it on to the top vent pipe.

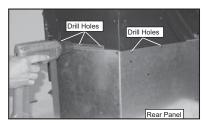


Figure 21.5



Figure 21.6

B. Outside Air Kit Instructions

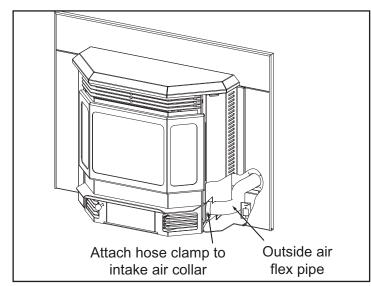
Parts Included in Kit: 1 piece of 2 inch x 3 ft. flex hose, 1 hose clamp and 1 rodent screen.

Tools Needed: Phillips head screw driver; wire cutters; hole saw or jig saw.

- 1. Measure distance from floor to air vent opening in appliance and mark location on wall.
- Use saw to cut opening in wall. Cut a 2-1/2 to 3 inches (64-76mm) opening on inside wall and a 3 to 3-1/2 inch (76-89mm) opening on outside of house.
- 3. Use hose clamp to secure flex pipe to collar assembly.
- 4. Slide trim ring over flex pipe and run pipe through wall.
- 5. Attach hose to outside termination cap with second hose clamp.
- 6. Secure termination cap to outside surface.
- 7. Secure trim ring to interior wall.

CAUTION

- Never draw outside combustion air from:
- Wall, floor or ceiling cavity
- Enclosed space such as an attic or garage





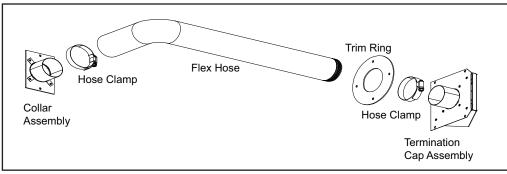


Figure 22.2

C. Adjustable Hopper Options

Depending on your installation, the hopper can be adjusted down 2-1/2 inches (64mm) and will decrease in capacity from 75lbs to 60lbs.

To adjust hopper:

- 1. Using a Phillips head screw drive, remove all the screws from the top of the hopper securing the top hopper piece to the bottom hopper piece and insert body.
- 2. Adjust downward 2-1/2 inches (64mm).
- 3. Mark location for new holes and drill new holes.
- 4. Secure hopper pieces together using screws removed in step one.
- 5. See drawing on page 8, Figure 8.3.

D. Grill Installation

- 1. Remove grill from packaging.
- 2. Lift top up.
- 3. Align the 3 holes in the insert with the holes in the grill.
- 4. Use a Phillips screw driver to secure in place. It will be necessary to go through the hole in the bag support shelf to gain access to the screw. **Figure 22.3.**
- 5. Lower the top into position.





E. Adjustable Hearth Support

Size: 9"D x 45"W, 2" to 10" Height Adjustment

Included in Kit: (1) trim top, (1) trim front, (2) trim sides, double-sided tape (already installed)

Tools Needed: Phillips head screw driver, sheet metal shears, measuring tape, gloves

- 1. The 10 screws on each set of scissors will already be loose when shipped. **Figure 23.1.**
- Expand scissors to desired height. Tighten screws to hold in place using Phillips head screw driver. Figure 23.2.
- Measure front and side trims to required height to cover scissors and mark pieces for cutting. Cut excess material from <u>top</u> of trim's edge, not bottom. This edge will be sharp; wear gloves to prevent injury to your hands. Figure 23.3.
- 4. Using sheet metal shears, cut trim along the marked edge. The cut edge fits under lip of top trim, so it allows for some variance in your straight edge.
- 5. The double-sided tape that holds front and side trims to scissors has a powerful bonding adhesive. Adjustments are extremely difficult once trim has adhered to tape. Do a dry run first without removing paper from tape.
- Place cut edge of trim under top lip and into position on scissors. Place side pieces on first and then front piece. The front piece overlaps side pieces.
- 7. Once you are satisfied with the positioning, remove trim and set aside.
- 8. Remove the paper from double-sided tape that is to accept trim side. Align side and then press hard against tape to secure side piece. Repeat for other side. Install front trim piece last.
- 9. There are 3 holes in the back flange of the top to secure it to the wall if necessary. Use the appropriate fastener for the type of wall material, i.e., brick, sheetrock, etc.

NOTE: 3/8 inch (9.5mm) thick tile or like material can be cut to size and fit under lip of top trim edge for a decorative touch. **Figure 23.3.**



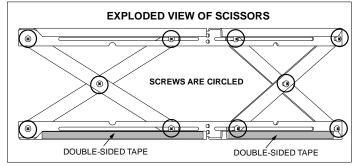


Figure 23.1

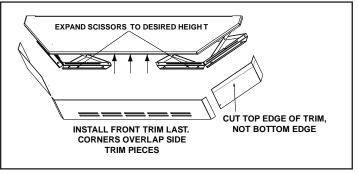


Figure 23.2

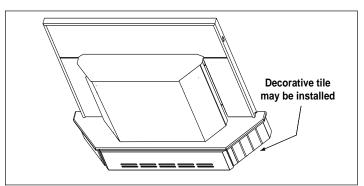


Figure 23.3



F. Panel and Trim Set

Standard Size: 30 inches H x 40 inches W (762mm x 1016mm) **Large Size:** 33 inches H x 50 inches W (838mm x 1270mm)

Included in Kit: 2 side panels, 1 top panel, 2 side trim, 1 top trim, 2 corner brackets and fastener package.

Tools Needed: Phillips and flat head screw drivers.

- Unpack and lay out parts face down (flanges up) on a nonabrasive surface as shown in Figure 24.1. Install (1) 8-32 x 3/8 inch screw into bottom tab of side panel.
- 2. Set the large hole at bottom of side curtain over screw installed in **Figure 24.3**.
- Stand assembly on end and attach and install (1) 8-32 x 3/8 inch screw through tab in side panel and curtain. Figure 24.4. Lay face down as shown in Figure 24.5.
- Align top panel to side panel setting clearance hole over screw head in side panel/curtain assembly. Install (2) 8-32 x 3/8 inch screws through holes in side panel into top panel. Figure 24.6. Complete for both sides.

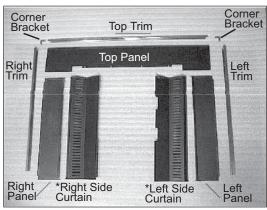


Figure 24.1

NOTE: *Right and left side curtains are shipped with the insert.

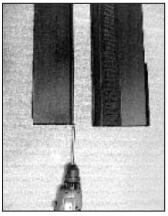


Figure 24.2



Figure 24.3

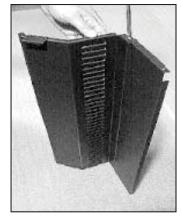


Figure 24.4

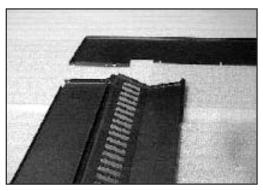


Figure 24.5

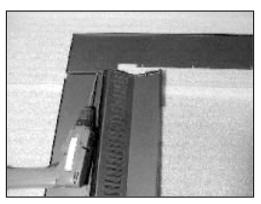


Figure 24.6

F. Panel and Trim Set (Cont'd)

- Hold side curtains in open position and lower panel set over insert setting lower edge of top panel in slot between hopper lid and panel support as shown in Figure 25.1. Place existing screw head (installed in Figure 25.2) into locator hole in floor of insert. Figure 25.2.
- 6. Lift hopper lid and press down on panel top while installing

 (4) 8-32 x 3/8 inch screws into holes in panel support. (If screws have been factory installed, tighten to secure panel to panel support.) Return hopper lid to closed position.
- 7. Install a corner bracket on each side trim piece. Slide brackets into top trim from each side and secure with flathead screwdriver. Attach trim assembly to panel set as follows:
 - a. Ensure that brackets face towards the back.
 - b. Align trim assembly to panel set sides and slide down.



Figure 25.1

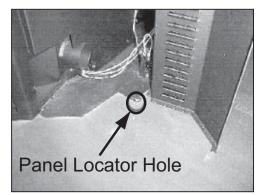


Figure 25.2



Figure 25.3

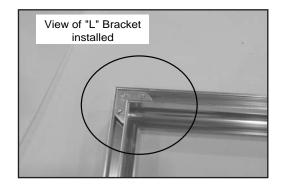


Figure 25.4



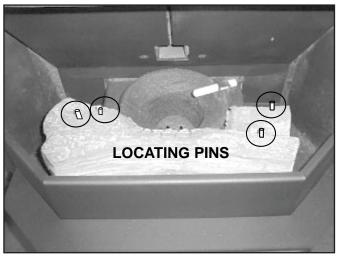
Figure 25.5- Completed View

G. Optional Log Set Placement Instructions

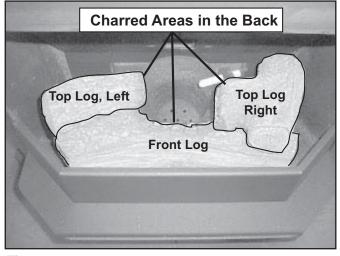
CAUTION

Logs are FRAGILE. Use extreme care when handling or cleaning logs.

- 1. Place the front log in first as shown in **Figure 26.1** charred area surrounding firepot.
- 2. Set the left and right logs onto the front log, placing the holes in the base of the left and right logs over the locating pins in the front log. See **Figure 26.2.** Ensure that the charred ends are facing the firepot.









NOTE:

Due to the abrasive nature of a pellet appliance fire, the logs are not covered under warranty. Any placement variation other than shown here can cause excessive heat and shall void the appliance warranty.

H. Thermostat Installation

Open right side plane to access a 4 screw terminal block located on the bottom right hand side next to the power cord inlet. The center 2 screws are for the thermostat wires. The outer 2 are the mounting screws for the terminal block. **Figure 26.3.**

Shock hazard. Do NOT remove grounding prong from plug. Plug directly into properly grounded 3 prong receptacle. Route cord away from appliance. Do NOT route cord under or in front of appli-

ance.

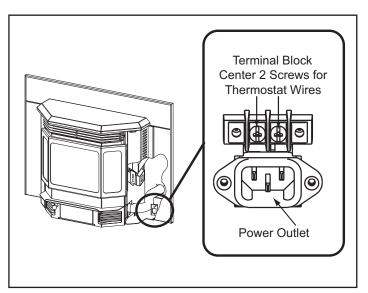


Figure 26.3

H. Thermostat Installation (continued)

The appliance comes standard with a wall thermostat and 25' of wire. If you need to run more than 25' make sure you use a continuous strand of 18 to 22 gauge thermostat wire. For optimum performance your thermostat should be located on an inside wall approximately 5' up from the floor.

How to Install Your Wall Thermostat

- 1. Separate the body of the thermostat from the mounting plate by gently pulling the two pieces apart
- 2. Connect your thermostat wire to the W and R terminals (see Figure 27.1)
- 3. Screw the backer plate to the wall using the hardware included
- 4. Snap the thermostat to the backer plate
- 5. Connect the wires to the 2 center screws on the terminal block on the back of the product

Battery Installation and Replacement

NOTE: 2 AA batteries are included with the thermostat and must be installed before the appliance can be operated.

Install fresh batteries immediately when the **REPLACE BATTERY** warning begins flashing. The warning flashes about two months before the batteries are depleted. Even if the warning does not appear, you should replace batteries once a year.

If batteries are inserted within two minutes, the time and day will not have to be reset. All other settings are permanently stored in memory.

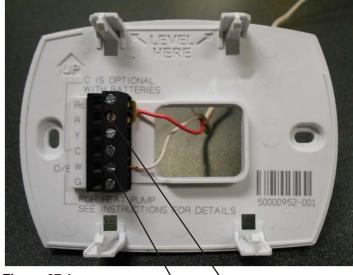


Figure 27.1

R

W



Figure 27.2

Operating Instructions

A. Fuel Size, Material and Storage

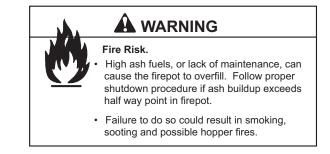
1. Wood Pellets

Fuel pellets are made from sawdust or wood by-products. If the source material is hardwood, they can have a higher mineral content, creating more ash. Fuels containing bark will also have higher ash content. Minerals and other noncombustible materials such as sand will turn into a hard, glass-like substance called a clinker when heated to the extreme temperatures our firepot reaches. This is what forms clinkers in the bottom of the firepot. Trees from different areas will vary in mineral content. That is why some fuels produce more clinkers than others. Pellets are manufactured in either 1/4 inch or 5/16 inch (6-8mm) diameter and should be no more than 1-1/2 inches (38mm) in length. Pellet lengths may even vary by lot from the same manufacturer which is why the feed rate may need to be adjusted occasionally. If you burn pellets longer than 1-1/2 inches (38mm) you may have an inconsistent fuel feed rate and/or missed ignitions.

Pellet fuel quality can greatly fluctuate. We recommend using premium grade fuel with ash content less than 1%. Even in some fuel labeled "premium" ash content can vary from bag to bag and possibly exceed 1%. High ash fuel, or lack of maintenance, can cause the firepot to fill up and thus create a potential for smoking, sooting and possible hopper fires.

Always burn dry fuel. Burning fuel with high moisture content takes heat from the fuel and tends to cool the appliance, robbing heat from your home. Damp pellet fuel can clog the feed system.

We recommend that you buy fuel in multi-ton lots whenever possible. Buying large quantities of fuel at once will greatly reduce the number of times the feed adjustments will need to be made. However, we do recommend trying various brands before purchasing multi-ton lots to ensure your satisfaction.



2. Shelled Field Corn

Extensive factory and field testing has demonstrated shelled field corn to be an efficient and very economical fuel. We recommend the use of a 50-50 blend of corn and wood pellets. The only change in operation is that the feed rate may require a slight adjustment. The BTU output of the appliance varies slightly compared to pellets, depending on the quality of the

2. Shelled Field Corn (Cont'd)

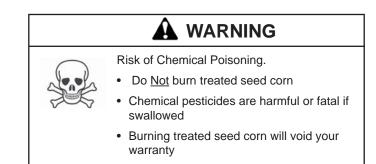
corn used. In cases where it is acceptable for the appliance to run full time, 100% corn will work after the fire has been started using wood pellets.

When purchasing corn to burn in your appliance, read the ingredient label very carefully. **Do NOT purchase fuel that contains any additives** such as oils (i.e. soybean oil) and meals as it will result in poor unit performance. If you are buying corn the only ingredient that should be listed is corn.

Shelled field corn must be 15% or less moisture content. The corn must be clean and free from debris. Never burn corn straight from the field. Stalk parts, excessive fines and cob remnants, etc. will clog the auger mechanism. Corn with excessive grain dust must be screened by sifting with 3/16 (4.76mm) inch mesh screening.

Do not burn treated seed corn in your appliance. Seed corn is treated with chemical pesticides that are harmful or fatal if swallowed; therefore, seed corn is dangerous to have in the house, especially where children can reach it. Burning treated seed corn in your appliance will void your warranty and will destroy the exhaust system on the unit.

When changing to a different fuel, be sure to empty the hopper of the previous fuel and vacuum the hopper before you fill it with the new fuel.



3. Storage

Wood pellets should be left in their original sealed bag until using. This will prevent moisture absorption.

Shelled corn should be stored in a tight container where it will not absorb moisture from damp or wet floors. This will also prevent rodents from becoming a problem.

Do not store any pellet fuel within the clearance requirements or in an area that would hinder routine cleaning and maintenance.

B. General Operating Information

1. Thermostat Calls For Heat

The appliance is like most modern furnaces; when the thermostat calls for heat, your appliance will automatically light and deliver heat. When the room is up to temperature and the thermostat is satisfied, the red call light will shut off and the appliance will shut down. **Figure 30.1.**

2. Heat Output Controls

This appliance is equipped with a heat output control switch that has three settings or burn rates; low, medium and high. The appliance will turn on and off as the thermostat demands. When the thermostat calls for heat, the appliance will always start up on High. After burning approximately 4 minutes, the appliance will then burn at the rate at which it was originally set. If the appliance is set at one of the lower settings, it will run quieter but takes longer to heat up an area than if it were set at a higher burn rate. Regardless of the burn rate, when the area is warm enough to satisfy the thermostat, the appliance will shut off.

Setting	Burn Rate (LBS/Hr)	BTU/Hr
Hi	5.95	40,877
Med	3.76	25,798
Lo	2.03	13,959

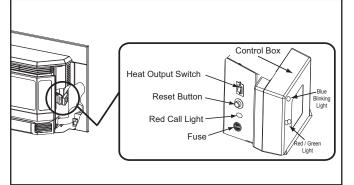


Figure 29.1



A WARNING

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 TO START OR "FRESHEN UP" A FIRE IN THIS HEATER.
- DO NOT BURN GARBAGE OR FLAMMABLE FLUIDS SUCH AS GASOLINE, NAPHTHA OR ENGINE OIL.
- DO NOT USE CHEMICALS OF FLUIDS TO START THE FIRE.
- Keep all such liquids well away from the heater while it is in use.
- Combustible materials may ignite.

C. Before Your First Fire

- First, make sure your appliance has been properly installed and that all safety requirements have been met. Pay particular attention to the fire protection, venting and thermostat installation instructions.
- 2. Double check that the ash pan and firebox are empty!
- 3. Check the position of the thermocouple, located above the firepot, and make sure that it protrudes approximately 3/4 inch (19mm) into the firepot.
- 4. Close the front door.

CAUTION

Tip of thermocouple must be in contact with the inside end of the thermocouple cover.

Missed ignitions can occur.

D. Starting Your First Fire

- 1. A thermostat is required for proper operation of this appliance, except for corn. At this time, fill the hopper with pellets, set the thermostat to its lowest setting. Plug the power cord into nearby outlet.
- 2. The exhaust blower will stay on for approximately 10 minutes even though the thermostat is not calling for heat. This is normal.
- 3. Locate the heat output control switch on the right side behind the right side panel. Set to the HIGH setting and then adjust the thermostat to its highest setting. The red call light will be on which is located on the right side behind the right side panel. This indicates the thermostat is calling for heat. **Figure 29.1**.
- 4. The fuel feed system and the igniter should now be on.
- 5. For your first fire it will be necessary to press the reset button approximately 2 minutes after start-up and again at 4 minutes. This will fill the feed system and allow the appliance to begin dropping pellets. Continue pushing the reset button until you detect that pellets are being delivered into the firepot. The appliance will continue to run as long as the thermostat is calling for heat.
- 6. Once the appliance has ignited, let the it burn for approximately 15 minutes, then set the thermostat to the desired room temperature. Adjust the heat output control switch to the desired setting.

CAUTION

Odors and vapors released during initial operation.

- Curing of high temperature paint.
- Open windows for air circulation.

Odors may be irritating to sensitive individuals.



E. Fire Characteristics

A properly adjusted fire with the heat output control switch set on "HIGH" has a short active flame pattern that extends out of the firepot approximately 4 to 6 inches (102-105mm). If the fire has tall flames with black tails and seems somewhat lazy, the feed rate will need to be reduced. If the fire is not 4 inches to 6 inches (102-105mm) tall, increase the feed rate. A medium and low setting will give a shorter flame. The flame will rise and fall somewhat. This is normal.

F. Feed Rate Adjustment Instructions

The feed adjustment control rod is factory set, and should be adequate for most fuels. The set screw is located at the bottom of the hopper and <u>set loose at the factory</u> so the fuel adjustment control rod will slide by only loosening the wing nut. Do not re-tighten bottom set screw.

However, if the flame height is too high or too low, you will need to adjust the feed rate. Wait until the appliance has been burning for 15 minutes before making your adjustments and allow 15 minutes for feed adjustment to take effect.

- 1. Open the hopper lid and locate the fuel adjustment control rod.
- 2. Loosen the wing nut on the rod.
- 3. Adjust the fuel adjustment control rod upwards to increase the feed rate and flame height or downwards to decrease the feed rate and flame height.
- 4. Re-tighten the wing nut.

G. Ignition Cycles

- 1. During each ignition cycle, it is normal to see some smoke in the firebox. The smoke will stop once the fire starts.
- 2. The convection blower will automatically turn on after your appliance has reached the set temperature. This blower transfers heat from your appliance into the room, and will continue to run after the thermostat has stopped calling for heat until the appliance has cooled down.
- 3. Occasionally the appliance may run out of fuel and shut itself down. When this happens, the red call light will be on. To restart it, fill the hopper and press the reset button. When you press the reset button the red call light will go out. Release the button and the light will come back on. You should see a fire shortly. If not, follow the instructions "Starting Your First Fire".on this page.



Fire Risk Do NOT operate appliance:

- With appliance door open.
- Firepot floor open.
- Cleaning slide plates open.
- Do NOT store fuel:
- Closer than required clearances to combustibles to appliance
- Within space required for loading or ash removal.

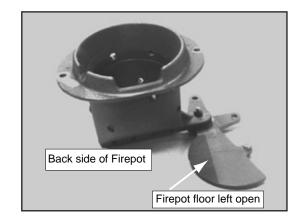


Figure 30.1 - DO NOT LEAVE FIREPOT FLOOR OPEN

H. Frequently Asked Questions

	ISSUES		SOLUTIONS
1.	Metallic noise.	1.	Noise is caused by metal expanding and contracting as it heats up and cools down, similar to the sound pro- duced by a furnace or heating duct. This noise does not affect the operation or longevity of your appliance.
2.	Ash buildup on glass.	2.	This is normal. Clean the glass.
3.	Glass has turned dirty.	3.	Excessive build up of ash. The lower burn settings will produce more ash, the higher burn settings produce less. The more it burns on low the more frequent cleaning of the glass is required.
4.	Fire has tall flames with black tails and is lazy.	4.	The feed rate needs to be reduced or the firepot needs cleaning. Heat exchanger or exhaust blower needs cleaning.
5.	Smokey start-up or puffs of smoke from the airwash.	5.	Either the firepot is dirty or there is too much fuel at start-up and not enough air. Close down feed rate 1/4 inch (6mm) at a time until this no longer happens.
6.	Large flame at start-up.	6.	This is normal. Flame will settle down once the fire is established.

CAUTION

Odors and vapors released during initial operation.

- Curing of high temperature paint.
- Open windows for air circulation.

Odors may be irritating to sensitive individuals.





With proper installation, operation, and maintenance your 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
Plug in appliance - No	No current to outlet.	Check circuit breaker at service panel.
response.	7 amp fuse defective.	Replace fuse.
	#3 snap disc tripped or defective.	Reset or replace snap disc.
	Control box defective.	Replace control box.
Call light on. No fire.	Out of fuel.	Check hopper. Fill with fuel.
No fuel in firepot.	#2 snap disc may be defective.	Replace snap disc.
	Vacuum switch not closing, no vacuum.	Check exhaust blower is plugged in and operating. Check vacuum switch is plugged in. Check vacuum hose is in good condition, clear and connected at both ends. Check thermocouple is in good condition and plugged in properly. Make sure venting system is clean. Make sure front door is closed.
	Control box defective.	Replace control box.
Call light on. No fire. Partially burned fuel in	Firepot clean-out plate not closed.	Check that firepot clean-out plate is fully closed.
firepot.	Firepot is dirty (missed ignition).	Clean firepot. Make sure there is no clinker in the firepot.
		Clinkers may have to be broken up with firepot scraper tool or other means.
Call light on. No fire. Unburned pellets in	Firepot clean-out plate not closed.	Check that firepot clean-out plate is fully closed.
firepot.	Firepot is dirty.	Clean firepot. Make sure there is not a clinker in the firepot. Clinkers may have to be pushed out of firepot with firepot scraper tool or other means.
	Ignition hole blocked.	Scrape with solid piece of wire.
	Igniter not working.	Remove ash pan to see if igniter is glowing red on start-up. Check igniter wires for good connection. Replace igniter using 1/4 inch male /female spade connectors.
	Control box defective.	Replace control box.
Slow or smoky start-up.	Firepot clean-out plate not closed.	Check that firepot clean-out is fully closed.
	Firepot is dirty.	Clean firepot. Make sure there is not a clinker in the firepot. Clinkers may have to pushed out of firepot with firepot scraper tool or other means.
	Excessive amount of fuel at start-up.	Reduce feed rate using feed rate adjust- ment control rod located inside hopper.

Troubleshooting (Cont'd)

Symptom	Possible Cause	Corrective Action
Slow or smoky start-up (Cont'd)	Dirty exhaust and/or venting system.	Check for ash build up in appliance, including behind rear panels, firebox, heat exchanger, exhaust blower and venting.
Feed system fails to	Out of fuel.	Check hopper, fill with fuel.
start.	#2 snap disc may be defective.	Replace snap disc. Firebox door must be closed securely.
	Vacuum switch not closing. No vacuum.	Check exhaust blower is plugged in and operating. Check vacuum switch is plugged in. Check vacuum hose is in good condition, clear and connected at both ends. Check thermocouple is in good condition and plugged in properly. Make sure venting system is clean. NOTE: High winds blowing into the vent- ing system can pressurize the firebox causing loss of vacuum.
	Feed system jammed or blocked.	Empty hopper of fuel. Use a wet/dry vacuum cleaner to remove remaining fuel, from hopper, including feed tube. Check feed chute for obstructions. Loosen 2 screws and jiggle feed assembly.
	Feed spring not turning with feed motor.	Check that set screw is tight on feed spring shaft at end of feed motor.
	Feed motor defective or not plugged in.	Check connections on feed motor, replace if defective.
No call light. Appliance does not begin start	Thermostat not set to a high enough tempera- ture.	Adjust thermostat above room tempera- ture.
sequence.	Snap Disc #3 tripped.	Reset snap disc.
	No power.	Connect to power.
	Fuse blown.	Replace fuse.
	Connections at thermostat and/or appliance not making proper contact.	Check connections at thermostat and appliance.
	Defective thermostat or thermostat wiring.	Replace thermostat or wiring. NOTE: To test thermostat and wiring, use a jumper wire at the thermostat block on the appliance to by-pass thermostat and wiring.
	Control box defective.	Replace control box.
Appliance fails to shut off.	Call light on.	Turn thermostat off. If call light does not go out, disconnect thermostat wires from appliance. If call light does go out, thermostat or wires are defective.

Troubleshooting (Cont'd)

Symptom	Possible Cause	Corrective Action			
Convection blower fails to	No call light.	Defective control box.			
start.	#1 snap disc defective.	Replace snap disc.			
	Blower not plugged in.	Check that blower is plugged into wire har- ness.			
	Blower is defective.	Replace blower.			
	Control box is defective.	Replace control box.			
Exhaust blower fails to start or does not shut off.	Blower not plugged in.	Check that blower is plugged into wire har- ness.			
	Blower is clogged with ash.	Clean exhaust system.			
	Blower is defective.	Replace blower.			
	Control box is defective.	Replace control box.			
Large, lazy flame, orange color. Black ash on glass.	Dirty appliance. Poor fuel quality, high ash content.	Clean appliance, including firepot, heat exchangers and venting system. Remove stainless steel baffle from firebox to clean ash from on top of baffle. Clean behind rear brick panels. Change fuel brand to pre- mium.			
	Firepot clean-out plate not completely closed.	Check that firepot clean-out plate is fully closed.			
	Excessive amount of fuel.	Reduce feed rate using feed rate adjustment control rod located inside hopper.			
Nuisance shutdowns.	Low flame.	Increase feed by opening feed rate adjust- ment control rod located inside hopper.			
	Sawdust buildup in hopper.	Clean hopper, see page 36.			
	Feed motor is reversing.	Check for good connections between feed motor and wire harness.			
	Defective thermocouple.	Replace thermocouple.			
	Defective control box.	Replace control box.			
	Firepot more than 1/2 full	See page 39 for detailed instructions for "High Ash Fuel Content Maintenance".			
Appliance calls for heat. Call light illuminates. Exhaust blower starts. No feed or igniter.	Thermocouple is defective or not properly plugged in.	Check connections on thermocouple or replace if defective. A flashing yellow light on the control box indicates a problem with the thermocouple.			
	Defective control box	Replace control box.			

QUADRA-FIRE

Maintaining & Servicing Your Appliance

A. Proper Shutdown Procedure

A CAUTION

Shock and Smoke Hazard

- Turn down thermostat, let appliance completely cool and exhaust blower must be off. Now you can unplug appliance before servicing.
- Smoke spillage into room can occur if appliance is not cool before unplugging.
- Risk of shock if appliance not unplugged before servicing appliance.

Follow the detailed instructions found in this section for each step listed as referenced in the chart below.

This pellet insert has a manufacturer-set minimum low burn rate that must not be altered. It is against federal regulations to alter this setting or otherwise operate this pellet insert in a manner inconsistent with operating instructions in this manual.

B. Quick Reference Maintenance Chart

C. General Maintenance

1. Types of Fuel

Depending on the type of fuel you are burning will dictate how often you have to clean your firepot.

If the fuel you are burning has a high dirt or ash content or you are burning shelled field corn, it may be necessary to clean the firepot more than once a day.

Dirty fuel will cause clinkers to form in the firepot. A clinker is formed when dirt, ash or a non-burnable substance is heated to 2000° F (1093°C) and becomes glass-like. See "**D**" **page 39** in this section for more details on fuels with

high ash content.



Figure 35.1 - Clinker

Cleaning or Inspection	Frequency		Daily	Weekly	Monthly	Yearly	
Ash Pan (Wood Pellets)	Every 5 bags of fuel	OR		Х			
Ash Pan (Corn)	Daily	OR	Х				
Ash Removal from Firebox	More frequently depending on the fuel type or ash build-up	OR		Х			
Beneath Heat Exchanger	Every 1 ton of fuel	OR			Х		
Blower, Combustion (Exhaust)	More frequently depending on the fuel type	OR				Х	
Blower, Convection	More frequently depending on operating environment	OR				Х	
Door Latch Inspection	Prior to heating season	OR			Х		
Exhaust Path	More frequently depending on ash build-up	OR				Х	
Firebox - Prepare for Non-Burn Season	At end of heating season	OR				Х	
Firepot - Burning pellets - hardwood	Every 3 bags	OR	Х				
Firepot - Burning pellets - softwood	Every 5 bags	OR	Х				
Firepot - Burning Corn	Every 1 bag	OR	Х				
Glass	When clear view of firepot becomes obscure	OR		Х			
Heat Exchanger & Drop Tube	Every 1 ton of fuel	OR			Х		
Hopper	Every 1 ton of fuel or when changing fuel types	OR			Х		
Top Vent Adapter	More frequently depending on the fuel type or ash build-up	OR				Х	
Venting System	More frequently depending on the fuel type	OR				Х	

NOTICE: These are recommendations. Clean more frequently if you encounter heavy build-up of ash at the recommended interval or you see soot coming from the vent. **Not properly cleaning your appliance on a regular basis will void your warranty.**

2. <u>Cleaning Firepot with Cleaning Rod & Firepot</u> <u>Clean-Out Tool</u>

- Frequency: Daily or more often as needed
- By: Homeowner
 - a. Be sure the appliance is allowed to cool, has been unplugged and the exhaust blower is off. If you are just cleaning the firepot, there is no need to unplug the appliance.
 - b. Pull firepot cleaning rod OUT and IN a couple of times to help shake debris loose. If rod is hard to pull, it may be necessary to use your firepot clean-out tool to chip away material that has built up on the bottom plate of the firepot and to push out any clinkers. Larger clinkers may have to be removed from the top of the firepot. Corn clinkers can be especially difficult to break up.
 - c. The firepot floor plate must be fully closed when finished. See Figure 30.1 on page 30.

Fire Risk.NEVER pull firepot cleaning rods or cleaning slide plates when appliance is operating.

Hot pellets may fall into ashpan and may start a fire or have mis-starts due to lack of vacuum.

3. Ash Removal from Firebox

- **Frequency:** Weekly or more frequently depending on ash build-up.
- By: Homeowner
 - a. There must not be any hot ashes in the firebox during cleaning so allow the appliance to completely cool. The firebox ash should be removed every time the firepot is cleaned. Frequent cleaning of the ash in the firebox will help slow down the build-up of ash in the exhaust blower and vent system.
 - b. Plug in your appliance, if unplugged, and turn the thermostat on and immediately shut it off to start the exhaust blower on its cycle time. It will pull fly ash out the exhaust instead of into the room.
 - c. This ash is deposited in the same ash pan as the firepot debris. The ash pan should be emptied every time you clean the firebox. Remember to place the ash and debris into a metal or noncombustible container.
 - d. The 2 cleaning slide plates must be fully closed when cleaning is complete. **See Disposal of Ashes.**

- 4. Cleaning Ash Pan
- Frequency: Weekly or every 5 bags of fuel
- By: Homeowner

Locate the ash pan underneath the firepot and using a slight pull up and out remove the ash pan. Empty into a non-combustible container and re-install ash pan. **See Disposal of Ashes.**

5. Disposal of Ashes

- Frequency: As needed
- By: Homeowner

Ashes should be placed in a metal container with a tight-fitting lid. The closed container of ashes should be placed on a non-combustible floor or on the ground, well away from all combustible materials, pending final disposal.

If the ashes are disposed of by burial in soil or otherwise locally dispersed, they should be retained in the closed container until all cinders have been thoroughly cooled.

Disposal of Ashes

- Ashes should be placed in metal container with tight fitting lid.
- Ashes should be retained in closed container until all cinders have thoroughly cooled.

6. Cleaning the Hopper

- Frequency: Monthly or after burning 1 ton of fuel
- By: Homeowner

After burning approximately 1 ton of fuel or changing fuels you will need to clean the hopper to prevent saw-dust build-up.

A combination of sawdust and pellets on the auger reduces the amount of fuel supply to the firepot. This can result in nuisance shutdowns and mis-starts.

- a. Be sure the appliance is allowed to cool, has been unplugged and the exhaust blower is off.
- b Empty the hopper of any remaining pellets.
- c. Vacuum the hopper and feed tube.







Heat exchanger cleaning rods may be warm to the touch. For safety purposes wear gloves.

Do not pull heat exchanger cleaning rods while appliance is operating.

Push cleaning rods IN when done, DO NOT leave cleaning rods OUT. Injury can occur.

7. Cleaning Heat Exchanger Chambers & Drop Tube

- Frequency: Weekly or every 1 ton of fuel
- By: Homeowner

The amount of ash buildup in the firepot will be a good guide to determine how often you should clean the heat exchangers.

- a. Allow the appliance to completely cool down before pulling the cleaning rods. Turn the thermostat on and then immediately off to start the exhaust blower on its cycle time. It will pull fly ash out the exhaust instead of into the room.
- b. To access the cleaning rods lift the hopper lid. Both black bent handle pull rods are located close to the face of the appliance to the left and right side.
- c. To clean, pull the rods straight out until it stops, approximately 20 inches (508mm). Slide the rods OUT and IN a couple of times.

8. Cleaning Beneath Heat Exchanger

- **Frequency:** Monthly or after burning 1 ton of fuel
- By: Homeowner
 - a. Be sure the appliance is allowed to cool, has been unplugged and the exhaust blower is off
 - b. A more thorough cleaning is needed to remove the excess ash that is left behind from the use of the cleaning rods for the heat exchanger tubes.
 - c. The ash will be resting on the back of the baffles. This will require removing the baffles. Please refer to page 38 for instructions on removing the baffles.

9. Cleaning Exhaust Path

- **Frequency:** Yearly or more frequently depending on ash build-up.
 - By: Homeowner
 - a. Be sure the appliance is allowed to cool, has been unplugged and the exhaust blower is off
 - b. Open the hinged access door on the left of the insert.
 - c. Reach in and unlatch the trap door that is connected to the rear of exhaust blower.
 - d. Use a small vacuum hose attachment to clean area.
 - e. Re-latch and close trap door.

NOTE: There are heavy duty vacuum cleaners specifically designed for solid fuel appliance cleaning.

10. Cleaning the Glass

- **Frequency:** When clear view of the firepot becomes obscure.
- By: Homeowner
 - a. Be sure the appliance is allowed to cool, has been unplugged and the exhaust blower is off.
 - b. Use a damp paper towel or any nonabrasive glass cleaner. Wipe off with dry towel.

CAUTION

Handle glass assembly with care.

When cleaning glass:

- Avoid striking, scratching or slamming glass.
- Do NOT clean glass when it is hot.
- Do NOT use abrasive cleaners.
- Use a hard water deposit glass cleaner on white film.
- Refer to maintenance instructions.

11. Door Latch Inspection

- Frequency: Prior to heating season
- **By:** Homeowner
 - a. Be sure the appliance is allowed to cool, has been unplugged and the exhaust blower is off
 - b. To adjust, open the latch and pivot the holding rod out. Loosen the jam nut on the rod.
 - c. With a Phillips head screw driver, turn the rod clockwise to tighten. The latch handle should snap securely in place when adjusted properly.
 - d. After adjusting the latch, be sure to tighten the jam nut on the rod to hold the adjustment.



12. Door Gasket Inspection

- **Frequency:** Prior to heating season
- By: Homeowner
 - a. Be sure the appliance is allowed to cool, has been unplugged and the exhaust blower is off
 - b. To inspect the door rope (gasket), open the door and see that the door rope extends approximately 1/8 inch (3mm) to 3/16 inch (9.5mm) from the door rope channel.
 - c. It should show signs of compaction all the way around the door where the rope contacts the face of the appliance. Confirm there are no air leaks.

13. Cleaning Exhaust Blower - Requires No Lubrication

- Frequency: Yearly or as needed
- **By:** Quality Service Technician/Homeowner
- Task:: Contact your local dealer.
- 14. <u>Cleaning Convection Blower Requires No</u> <u>Lubrication</u>
- Frequency: Yearly or as needed
- By: Qualified Service Technician
- Task: Contact your local dealer.

15. <u>Soot and Fly Ash: Formation & Need for Removal</u> in Exhaust Venting System.

- **Frequency:** Yearly or more frequently depending on ash build-up.
- By: Qualified Service Technician/Homeowner

Be sure the appliance is allowed to cool, has been unplugged and the exhaust blower is off.

The products of combustion will contain small particles of fly ash. The fly ash will collect in the exhaust venting system and restrict the flow of the flue gases.

At start-up if there is incomplete combustion, or if there is a shutdown or incorrect operation of the appliance it will lead to some soot formation. This will collect in the exhaust venting system.

The venting system may need to be cleaned at least once a year or more often depending upon the quality of your fuel or if there is a lot of horizontal pipe sections. Ash will build up more quickly in the horizontal sections.

16. Preparing Firebox for Non-Burn Season

- Frequency: Yearly
- By: Homeowner
 - a. Be sure the appliance is allowed to cool, has been unplugged and the exhaust blower is off.
 - b. Remove all ash from the firebox and vacuum thoroughly.
 - c. Paint all exposed steel, including cast-iron.
 - Use the Touch-Up paint supplied with the appliance; or,
 - Purchase paint from your local dealer.
 - Must use a high-temperature paint made specifically for heating appliances.

17. <u>Remove Baffle to Access Heat Exchanger Tubes</u> and Firebox Exhaust Exits

- 1. Open the right side access door and then open the glass door.
- 2. Grasp the bottom of the baffles and pull up to dislodge from hook attachment.
- 3. Use a standard screw driver to unlatch the covers beneath the baffles of each side.
- 4. Re-install in reverse order.

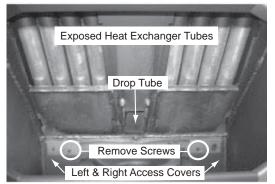
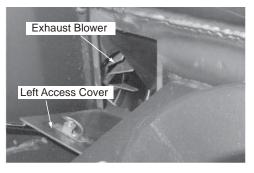


Figure 38.1 - Baffle Removed

18. <u>Vacuum Heat Exchanger Tubes, Firebox Area and</u> <u>Drop Tube</u>

- 1. Use a Shop Vac to vacuum any fly ash and soot from the heat exchanger tubes and firebox area. **Figure 38.1**
- 2. Remove any debris that may be in the drop tube.





19. Clean Firebox Exhaust Exits & Exhaust Blower

- 1. There are 2 exhaust exits at the back of the firebox on the left and right side. **Figure 39.1**.
- 2. Using a Phllips head screwdriver remove the screws and set aside the access covers.
- 3. Vacuum the 2 exhaust exits thoroughly.
- 4. Clean the exhaust blower blades while the access cover on the left side is still removed. **Figure 39.2.**

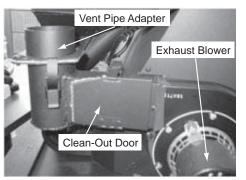
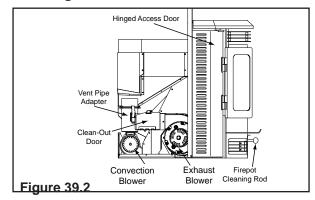


Figure 39.1



D. High Ash Fuel Content Maintenance

- **Frequency:** When the ash build-up exceeds more than half way up the firepot.
- By: Homeowner

Poor quality pellet fuel, or lack of maintenance, can create conditions that make the firepot fill quickly with ashes and clinkers.

This condition makes the appliance susceptible to overfilling the firepot with pellets which may result in smoking, sooting and possible hopper fires. **Figure 39.3** shows an example where the firepot overfills, pellets back up into the feed tube and ash has accumulated in the firebox.

An inefficient and non-economical method of burning of fuel caused by poor quality pellet fuel is shown in **Figure 39.4**.

The correct flame size when good quality, premium pellet fuel is burned is shown in **Figure 39.5**.

If the ash buildup exceeds the half way point in the firepot **IMMEDIATE ATTENTION AND CLEANING IS REQUIRED.**

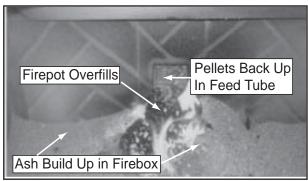


Figure 39.3

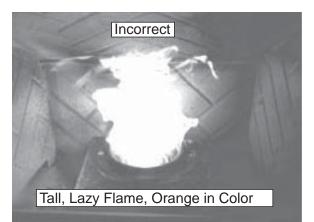
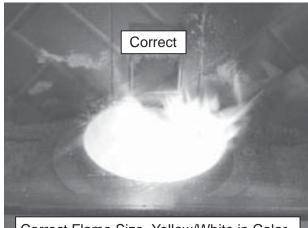


Figure 39.4



Correct Flame Size, Yellow/White in Color

Figure 39.5

Fire Risk. • High ash fuels, or lack of maintenance, can cause the firepot to overfill. Follow proper shutdown procedure if ash buildup exceeds half way point in firepot. • Failure to do so could result in smoking, sooting and possible hopper fires.

E. Glass Replacement



- - Glass is 5mm thick high temperature heatresistant ceramic glass.
 - DO NOT REPLACE with any other material.
 - Alternate material may shatter and cause injury
 - Remove door from appliance and place face down on a protected surface to avoid scratching the door.
 - Remove all door rope.

1. Replacing Center Glass

- NOTE: DO NOT LET Air Wash Spacers fall down from top frame when removing and replacing center glass.
 - a. Be sure the appliance is allowed to cool, has been unplugged and the exhaust blower is off.
 - b. Using a nut driver remove the (5) bottom nuts and remove the bottom glass frame. **Figure 40.2.**
 - c. Slightly bend up and out of the way the 2 center posts and slide the glass out the bottom.
 - d. Slide new glass in, reposition the 2 center posts and re-install bottom glass frame.
 - e. Re-rope the door.

2. <u>Replacing Side Glass</u>

- NOTE: When removing the side glass with the door latch, you must remove the door latch first before removing the side frame. Use a powered Phillips head screw driver to remove the 4 screws.
 - a. Be sure the appliance is allowed to cool, has been unplugged and the exhaust blower is off.
 - b. Remove side glass frame.
 - c. Loosen the top and bottom frame and slightly bend up and out of the way.
 - d. Slide glass out the side and slide new glass in.
 - e. Re-install the side glass frame and tighten the top and bottom frames.
 - f. Re-install the door latch, if applicable, and re-rope the door.

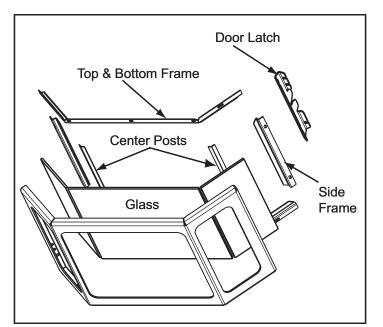


Figure 40.1

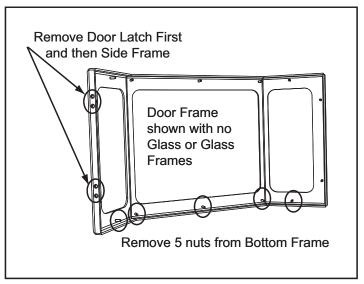


Figure 40.2



F. Igniter Replacement

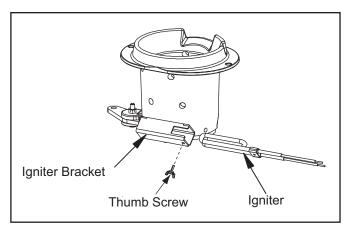


Figure 41.1

- a. Be sure the appliance is allowed to cool, has been unplugged and the exhaust blower is off. Remove the ash pan.
- b. The wire leads to the igniter are connected to the wire harness with 1/4 inch male / female spade connectors. These wires will pull forward approximately 4 to 5 inches (102mm to 127mm). Disconnect the spade connections and remove the igniter from the chamber. Loosen the thumb screw and slide igniter out.
- c. Install new igniter into the chamber and tighten the thumb screw. Re-connect the wires to the 2 leads with the spade connectors.
- d. Push excess wire leads to take-up the 4 to 5 inches (102mm to 107mm) previously pulled out. This will keep the wires out of the way of the ash pan. Double check that the igniter wires are clear of any movement, i.e. ash pan, firepot cleaning rod, etc.
- f. Re-install the ash pan and re-connect the power.

G. Baffle Removal

- a. Be sure the appliance is allowed to cool, has been unplugged and the exhaust blower is off.
- b. Open glass door.
- c. Grasp the bottom of the baffles and pull up to dislodge from hook attachment.
- d. Use a standard screw driver to unlatch the covers beneath the baffles of each side.
- e. Re-install in reverse order.



1. Control Box

Reference Materials

A. Component Function



- a. The control box is located on right side of appliance, behind the right side panel.
- b. There is a light located inside of the control box. The internal light will turn green when the appliance has reached a temperature of 200°F (93°C) in the firepot. and will turn red when it reaches 600°F (315°C).
- c. There is also an internal blue light located in the upper left corner of the control box. When you plug in the appliance the blue light will automatically start blinking 1 blink every 10 seconds for 60 seconds and then will stop.

NOTE:

Do **NOT** open the control box. This will void the warranty. If you need to plug in or remove the control box you must first **unplug the appliance.**

2. Convection Blower

The convection blower is mounted at the bottom rear of the appliance. There are 2 impellers, one on each side of the motor. The convection blower pushes heated air through the heat exchange system into the room.

3. Combustion (Exhaust) Blower

The combustion blower is mounted on the left side of the appliance behind the left side panel. It is accessible either when the insert is pulled out onto the hearth or from both hinged side openings. The blower is designed to pull the exhaust from the appliance and push it out through the venting system.

4. Feed System

The feed system is located behind the firebox and can be removed as an entire assembly. The assembly includes the feed motor, mounting bracket, bearing and feed spring (auger). The hollow feed spring (auger) pulls pellets up the feed tube from the hopper area and drops them down the feed chute into the firepot.

5. Firepot

The firepot is made of high quality ductile iron and has a cleaning pull-out rod. The floor of the firepot opens for cleaning when you pull out the rod. Be sure that the floor returns to a completely closed position or your appliance will not operate properly.

6. <u>Fuse</u>

The fuse is located on the right side of the appliance behind the side panel. The fuse will blow should a short occur and shut off power to the appliance. When describing the location of a component part it is always AS YOU FACE THE FRONT OF THE APPLIANCE.

7. <u>Heat Exchangers</u>

The heat exchangers transfer heat from the exhaust system into convection air. There are 2 clean out rods located under the heat exchangers.

8. Heat Output Switch

The heat output switch is located on the right side of firebox, behind right side panel. The function of the heat output switch is to regulate the burn rates; low, medium and high settings.

9. Hopper Switch

The hopper switch is located in the upper right hand corner of the hopper. This switch is designed to shut down the feed motor whenever the hopper lid is opened.

10. Igniter

The igniter is mounted on the base of the firepot. Combustion air travels over the red hot igniter creating super heated air that ignites the pellets.

11. Junction Box And Wiring Harness

The junction box is located on the right side of the appliance, behind the right front access panel. The junction box and wiring harness are replaced as one component.

12. Power Supply

The power outlet is located on the right side of the appliance. Check the wall receptacle for 120 volt, 60 Hz (standard current). Make sure the outlet is grounded and has the correct polarity. A good surge protector is recommended. When operating with a generator you need at least 600 watts of power, or with an inverter at least 800 watts of power, available for the appliance during the start cycle.

13. Red Call Light

The red call light is on the right side behind the right side panel. The function of the red call light is to indicate that the thermostat is calling for heat.

14. Reset Button

The reset button is located on the right side of firebox behind right side panel. The function of the reset button is to momentarily open the thermostat circuit, which restarts the system.

15. Thermocouple

The thermocouple is located on top of the firepot inside the thermocouple cover (ceramic protection tube). The thermocouple sends a millivolt signal to the control box indicating the preset temperatures of the green and red lights have been obtained.

16. Thermostat

The appliance is designed to run on a 12 volt AC thermostat. The heat anticipator, if present, should be set on the lowest setting available.

17. Snap Disc #1 (Convection Blower) 125°F

Snap disc #1 is located on the right side of the firebox. There are 2 purple wires connected to it. This snap disc turns the convection blower on and off as needed. Power is always present at snap disc #1.

18. Snap Disc #2 (Fuel Delivery Interrupt) 200°F

Snap disc #2 is located on the left side of the unit behind the access door. There are 2 yellow wires connected to it. This snap disc will interrupt the thermostat circuit, which will shut down the appliance if an over-fire condition should occur, or if the convection blower should fail to operate. If this occurs the snap disc with automatically reset itself and the unit will start up if the thermostat is still calling for heat.

19. Snap Disc #3 (Burn Back Protector) 250°F

Snap disc #3 is mounted on the right side of the auger tube just below feed motor and has a reset button. To access it remove the right side panel. If the fire tries to burn back into the feed system or push exhaust up the feed tube, this snap disc will shut the entire system off. This disc must be manually reset.

20. Vacuum Switch

The vacuum switch is located at the rear of the appliance. This switch turns the feed system on when vacuum is present in the firebox. The vacuum switch is a safety device to shut off the feed motor if the exhaust or the heat exchanger system is dirty or plugged or if the firebox door is open.

21. Wiring Harness

See Figure 43.1 below

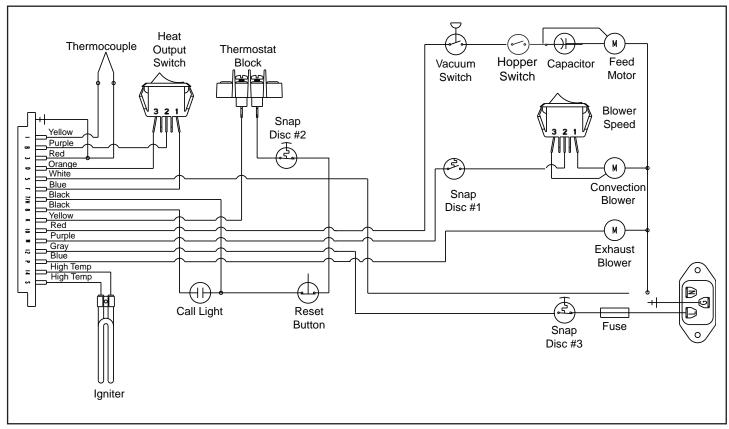
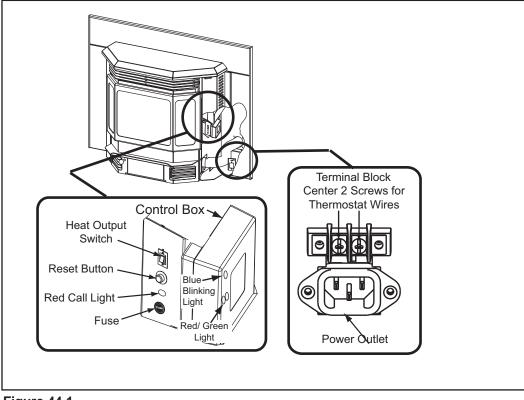
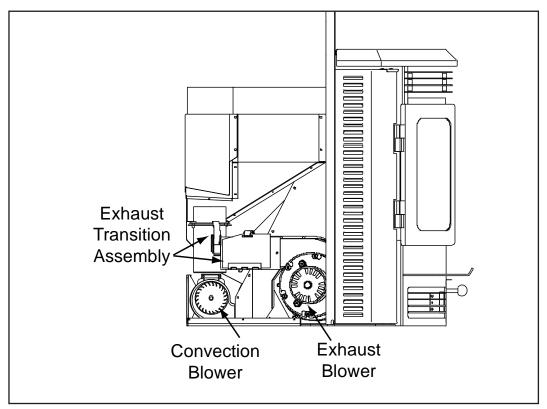


Figure 43.1

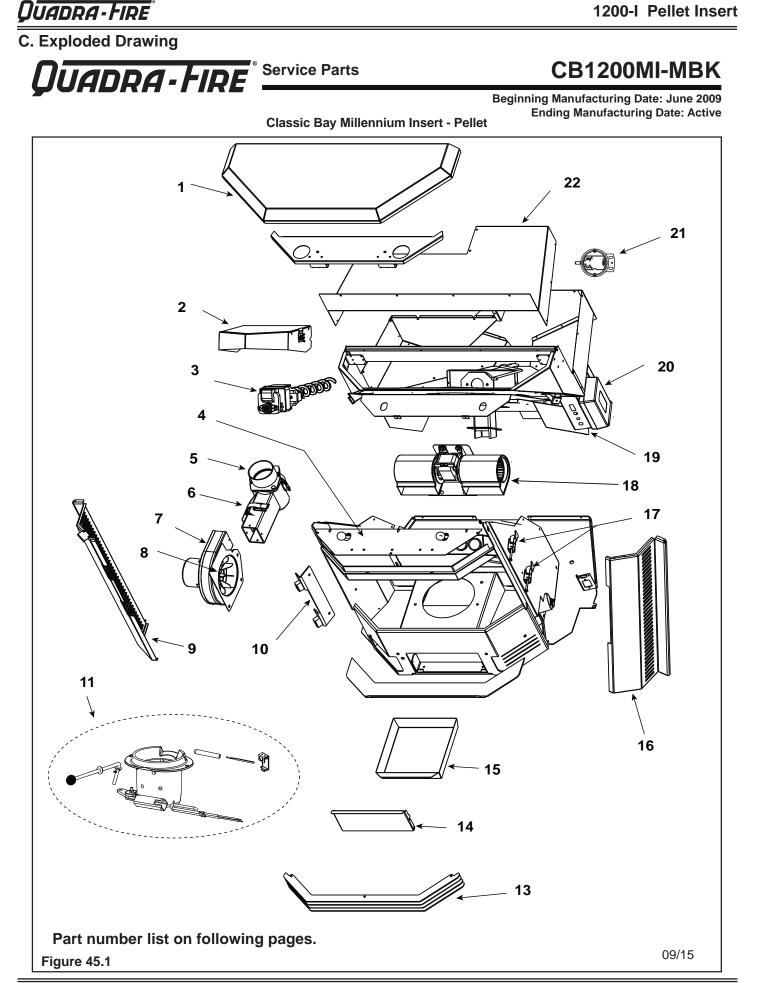
B. Component Locations











QUADRA - FIRE[®] Service Parts

D. Service Parts and Accessories

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

CB1200MI-MBK

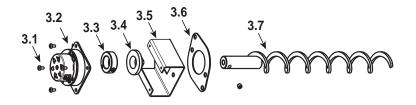
Ouadra-Fire

Stocked

Beginning Manufacturing Date: June 2009 Ending Manufacturing Date: Active

nodel number and serial number when requesting service parts from your dealer or distributor.					
ITEM	DESCRIPTION	PART NUMBER			
1	Тор		SRV7027-040		
	Hinge, Hopper Lid		812-4220		
	Mount, Hopper Lid Support, Left	No longer available	410-8200		
	Mount, Hopper Lid Support, Right		410-7410		
	Mount, Hopper Lid Support, Top		410-7560		
2	Cover, Feed Motor, Top		410-7920		

#3 Feed Motor Assembly



3	Feed Motor Assembly		812-3690	Y
3.1	Screw, 8-32 X 3/8 PH	Pkg of 40	225-0500/40	Y
3.2	Feed Motor		812-4421	Y
3.3	Collar, Set, 7/8		229-0520	
3.4	Feed Bearing		SRV7000-598	Y
3.5	Mount, Feed Motor		410-7172	
3.6	Gasket, Feed Motor		240-0731	Y
3.7	Feed Spring Assembly		SRV7027-024	Y
	Bearing, Feed System, Nylon		410-0552	Y
	Snap Disc, Manual Reset		SRV230-1290	Y
4	Extension, Heat Shield, Top		410-7860	
5	Exhaust Adapter Assembly		510-5330	
	Gasket, Flue Adapter		240-0850	Y
6	Exhaust Transition Assembly		510-5340	
	Gasket, Cleanout Door		240-0840	
	Latch, Draw		229-0230	
7	Combustion Exhaust Blower,80 CFM		812-3381	Y
0	Oralist Exhaust Orachustica Disusa hatusan	Motor & Housing	812-4710	Y
8	Gasket, Exhaust Combustion Blower, between	Housing & Stove	240-0812	Y
9	Curtain, Side, Left		812-4310	
10	Mount, Door Hinge		410-7290	
	7014-18			



CB1200MI-MBK

Beginning Manufacturing Date: June 2009 Ending Manufacturing Date: Active

IMPORTANT: THIS IS DATED INFORMATION. Parts must be ordered from a dealer or distributor. Hearth and Home Technologies does not sell directly to consumers. Provide model number and serial number when requesting service parts from your dealer or distributor.							
ITEM							
#11 Fir	repot Assembly and Assocciated Parts	#12 Door Asser	le la	- 12.4 2.3			
11.1	Rod/Linkage Ez Clean		812-4140				
	Knob, Ash Dump Control Rod		832-3020				
	Spring, Firepot		200-2050				
11.2	Firepot Assembly		812-3351	Y			
	Bushing, Firepot		410-8320	Y			
	Floor, Firepot		414-0290	Y			
	Gasket, Firepot		510-0530	Y			
44.0	The survey of the Occurrent	Pkg of 1	812-1322	Y			
11.3	Thermocouple Cover	Pkg of 10	812-4920	Y			
11.4	Thermocouple		812-0210	Y			
11.5	Thermocouple Bracket W/Set Screw		812-3171	Y			
44.0		Pkg of 1	SRV7000-462	Y			
11.6	Heating Element Assembly 18" (Loop Igniter)	Pkg of 10	SRV7000-462/10	Y			
	Wing Thumb Screw 8-32 X 1/2	Pkg of 24	7000-223/24	Y			
		Black	DR-CB12-MBK-B				
12	Door Assembly	Gold	DR-CB12-GD-B				
		No longer available	DR-CB12-NL				
12.1	Hinge, Female		450-2910				
12.2	Glass Assembly, Center, 13-7/8 in. W x 11 in. H		510-5400	Y			
12.3	Glass Assembly, Side, 5-1/8 in. W x 11 in. H	Qty: 1	510-5410	Y			
12.4	Glass Retainer Assembly		510-5460	Y			
	Bracket, Door Latch		410-4912				
	Door Rope, 7/8", Field Cut to Size	8 Ft	842-2350	Y			
	Gasket, Glass, Field Cut to Size	10 Ft	833-0660				
		Black	LVGRL-CB12-BK-B				
13	Grille, Louver	Gold	LVGRL-CB12-GD-B				
		Nickel	LVGRL-CB12-NL-B				
	Grille, Bar, Bottom		410-8330				
14	Panel, Front Access	Ash Pan Door	812-4290				
15	Ash Pan		812-4130				

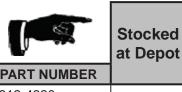


QUADRA-FIRE

CB1200MI-MBK

Beginning Manufacturing Date: June 2009 Ending Manufacturing Date: Active

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



ITEM	DESCRIPTION	COMMENTS	PART NUMBER	1		
16	Curtain, Side, Right		812-4320			
17	Latch, Draw		229-0640	Y		
18	Convection Blower, 150 CFM		812-4900	Y		
19	Wire Harness		SRV7000-155	Y		
	Block, Thermostat Term Dv		230-0690			
	Igniter Extension		7000-218			
20	Control Board 3 Speed		SRV7000-704	Y		
21	Vacuum Switch		SRV7000-531	Y		
22	Hopper Top		410-7730			
	Baffle, Left		812-4200	Y		
	Baffle, Right		812-4210	Y		
	Bracket, Magnet Mount		410-7760			
	Call Light Bulb		812-0760	Y		
	Call Light Lens Cover		812-0750	Y		
	Call Light, Fluorescent		SRV7000-122			
	Component Pack		812-4330			
	Cleanout Tool		414-1140	Y		
	Harness, Thermostat Wire		230-0810			
	Paint Touch-Up		812-0910			
	Power Cord		812-1180	Y		
	Door, Cleanout, Exhaust Plenum		410-7910			
	Feed Adjustment Assembly		510-5450			
	Thumbscrew, 1/4-20 X 3/4		844-5070			
	Fuse, 7 Amp, Junction Box	Pkg of 10	812-0380/10	Y		
	Fuse, 8 Amp, Control Box	Pkg of 10	812-3780/10	Y		
	Hinge, Door, Male		450-2810			
	Hopper Switch, Magnetic		7000-375	Y		
	Hose, Vacuum, 5/32 Id, Field Cut to Size	3 Ft	SRV240-0450	Y		
	Igniter Wire (5Ft) & (4) Ceramic Nuts		812-4520	Y		
	Latch, Magnet		229-0631			
	Reset Button Assembly		SRV7000-046			
	Snap Disc, #1, Convection Blower		SRV230-0470	Y		
	Snap Disc, #2, 200 Open/40 D		SRV230-0900	Y		
	Thermocouple Grounding Kit		812-4980			
	Wire Harness Hopper Switch		SRV414-1220	Y		

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CB1200MI-MBK

Beginning Manufacturing Date: June 2009 Ending Manufacturing Date: Active

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

Stocked



	mber and serial number when requesting service parts from your		_	at Depot				
TEM	DESCRIPTION	COMMENTS	PART NUMBER					
	OPTIONAL ACCESSORIES							
	Adjustable Hearth Support - 12 in. X 50 in., 2-10 in. H		ADJSPT-12					
	Damper, 3 Inch - Tall Vertical Installs Only		PEL-DAMP3	Y				
	Damper, 4 Inch - Tall Vertical Installs Only		PEL-DAMP4					
	Floor Protector		811-0730					
	Log Set Assembly		811-0592					
	Log, Rear Left		7050-144					
	Log, Rear Right		7050-143					
	Outside Air Kit		811-0700					
	Hose, Alum Flex, 2 Inch X 3 Ft	3 Ft	200-0860					
	Panel Set, Large, W/Gold Trim	33 in x 50 in.	SP-CB12I3350-GD					
	Bracket, -L-, Trim	Pkg of 2	832-0840					
	Logo, Quadra-Fire	Pkg of 10	7000-649/10					
	Trim, Panel Set, Gold		250-4660					
	Panel Set, Large, W/Nickel Trim	33 in x 50 in.	SP-CB12I3350-NL					
	Bracket, -L-, Trim	Pkg of 2	832-0840					
	Logo, Quadra-Fire	Pkg of 10	7000-649/10					
	Trim, Panel Set, Ots, Nickel		510-5220					
	Panel Set, Large, W/Black Nickel Trim	33 in x 50 in.	SP-CB12I3350-NB					
	Bracket, -L-, Trim	Pkg of 2	832-0840					
	Logo, Quadra-Fire	Pkg of 10	7000-649/10					
	Trim, Panel Set, Ots, Nickel		7019-027					
	Panel Set, Small, W/Gold Trim	30 in. x 40 in.	SP-CB12I3040-GD					
	Bracket, -L-, Trim	Pkg of 2	832-0840					
	Logo, Quadra-Fire	Pkg of 10	7000-649/10					
	Trim, Panel Set, Std, Gold		811-0710					
	Panel Set, Small, W/Nickel Trim	30 in. x 40 in.	SP-CB12I3040-NL					
	Bracket, -L-, Trim	Pkg of 2	832-0840					
	Logo, Quadra-Fire	Pkg of 10	7000-649/10					
	Trim, Panel Set, Std, Nickel	<u>_</u>	510-5210					
	Panel Set, Small, W/Black Nickel Trim	30 in. x 40 in.	SP-CB12I3040-NB					
	Bracket, -L-, Trim	Pkg of 2	832-0840					
	Logo, Quadra-Fire	Pkg of 10	7000-649/10					
	Trim, Panel Set, Std, Nickel	<u> </u>	7019-026					
	Shroud, Rear		811-0680					
	Smart-Batt II		841-0970					
	Smart-Stat II		841-0960					



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CB1200MI-MBK

Beginning Manufacturing Date: June 2009 Ending Manufacturing Date: Active

EM	DESCRIPTION	COMMENTS	PART NUMBER	at Depo	
	Thermostat		WALL-STAT	Y	
	Thermostat, Programmable		WALL-STAT-P		
	Top Vent Adapter, 3"		811-0660		
	Top Vent Adapter, 4"		811-0670	İ	
	Top Vent Kit, Rear Shroud		811-0650		
	Vent Adapter, 3-4"		811-0720		
	Vent Kit, Rear		811-0690		
	FASTENERS	5			
	Avk Rivnut Repair Kit - 1/4-20 & 3/8-16 Rivnut Tools		RIVNUT-REPAIR	Y	
	Bolt, Firepot, 1-1/4" Long	Pkg of 25	225-0120/25	Y	
	Bumper, Rubber	Pkg of 12	SRV224-0340/12	Y	
	Ceramic Nuts, (Igniter)	Pkg of 12	812-0730/12	Y	
	Nut, Keps Lock, 8-32	Pkg of 40	226-0060/40	Y	
	Nut, Lock 1/4-20	Pkg of 25	226-0090/25	Y	
	Nut, Ser Flange Small 1/4-20	Pkg of 24	226-0130/24	Y	
	Screw, Machine Screw 1/4-20X5/8	Pkg of 24	220-0440/24	Y	
	Screw, Pan Head Philips 10-32 X 3/8	Pkg of 40	21799A/40	Y	
	Screw, Sheet Metal #8 X 1/2 S-Grip	Pkg of 40	12460/40	Y	
	Washer, 1/4 Sae	Pkg of 24	28758/24	Y	

E. Service And Maintenance Log

Date of Service	Performed By	Description of Service



F. Warranty Policy

Hearth & Home Technologies Inc. LIMITED LIFETIME WARRANTY

Hearth & Home Technologies Inc., on behalf of its hearth brands ("HHT"), extends the following warranty for HHT gas, wood, pellet, coal and electric hearth appliances that are purchased from an HHT authorized dealer.

WARRANTY COVERAGE:

HHT warrants to the original owner of the HHT appliance at the site of installation, and to any transferee taking ownership of the appliance at the site of installation within two years following the date of original purchase, that the HHT appliance will be free from defects in materials and workmanship at the time of manufacture. After installation, if covered components manufactured by HHT are found to be defective in materials or workmanship during the applicable warranty period, HHT will, at its option, repair or replace the covered components. HHT, at its own discretion, may fully discharge all of its obligations under such warranties by replacing the product itself or refunding the verified purchase price of the product itself. The maximum amount recoverable under this warranty is limited to the purchase price of the product. This warranty is subject to conditions, exclusions and limitations as described below.

WARRANTY PERIOD:

Warranty coverage begins on the date of installation. In the case of new home construction, warranty coverage begins on the date of first occupancy of the dwelling or six months after the sale of the product by an independent, authorized HHT dealer/ distributor, whichever occurs earlier. The warranty shall commence no later than 24 months following the date of product shipment from HHT, regardless of the installation or occupancy date. The warranty period for parts and labor for covered components is produced in the following table.

The term "Limited Lifetime" in the table below is defined as: 20 years from the beginning date of warranty coverage for gas appliances, and 10 years from the beginning date of warranty coverage for wood, pellet, and coal appliances. These time periods reflect the minimum expected useful lives of the designated components under normal operating conditions.

Warranty Period			HHT Ma	nufactur	ed Applia	nces and	d Venting		
Parts	Labor	Gas	Wood	Pellet	EPA Wood	Coal	Electric	Venting	Components Covered
1 Year		х	x	х	х	х	x	x	All parts and material except as covered by Conditions, Exclusions, and Limitations listed
2 years				х	х	х			Igniters, electronic components, and glass
2 ye		Х	X X	Х	Х	Х			Factory-installed blowers Molded refractory panels
	-								
<u>3 y</u> e	ears			Х					Firepots and burnpots
5 years	1 year			Х	Х				Castings and baffles
7 years	3 years		х	х	х				Manifold tubes, HHT chimney and termination
10 years	1 year	Х							Burners, logs and refractory
Limited Lifetime	3 years	х	х	х	х	х			Firebox and heat exchanger
90 Days		х	х	х	х	Х	х	х	All replacement parts beyond warranty period

See conditions, exclusions, and limitations on next page.

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WARRANTY CONDITIONS:

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

WARRANTY EXCLUSIONS:

This warranty does not cover the following:

- Changes in surface finishes as a result of normal use. As a heating appliance, some changes in color of interior and exterior surface finishes may occur. This is not a flaw and is not covered under warranty.
- Damage to printed, plated, or enameled surfaces caused by fingerprints, accidents, misuse, scratches, melted items, or other external sources and residues left on the plated surfaces from the use of abrasive cleaners or polishes.
- Repair or replacement of parts that are subject to normal wear and tear during the warranty period. These parts include: paint, wood, pellet and coal gaskets; firebricks; grates; flame guides; and the discoloration of glass.
- Minor expansion, contraction, or movement of certain parts causing noise. These conditions are normal and complaints related to this noise are not covered by this warranty.
- Damages resulting from: (1) failure to install, operate, or maintain the appliance in accordance with the installation instructions, operating instructions, and listing agent identification label furnished with the appliance; (2) failure to install the appliance in accordance with local building codes; (3) shipping or improper handling; (4) improper operation, abuse, misuse, continued operation with damaged, corroded or failed components, accident, or improperly/ incorrectly performed repairs; (5) environmental conditions, inadequate ventilation, negative pressure, or drafting caused by tightly sealed constructions, insufficient make-up air supply, or handling devices such as exhaust fans or forced air furnaces or other such causes; (6) use of fuels other than those specified in the operating instructions; (7) installation or use of components not supplied with the appliance or any other components not expressly authorized and approved by HHT; (8) modification of the appliance not expressly authorized and approved by HHT in writing; and/or (9) interruptions or fluctuations of electrical power supply to the appliance.
- Non-HHT venting components, hearth components or other accessories used in conjunction with the appliance.
- Any part of a pre-existing fireplace system in which an insert or a decorative gas appliance is installed.
- HHT's obligation under this warranty does not extend to the appliance's capability to heat the desired space. Information is provided to assist the consumer and the dealer in selecting the proper appliance for the application. Consideration must be given to appliance location and configuration, environmental conditions, insulation and air tightness of the structure.

This warranty is void if:

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

LIMITATIONS OF LIABILITY:

 The owner's exclusive remedy and HHT's sole obligation under this warranty, under any other warranty, express or implied, or in contract, tort or otherwise, shall be limited to replacement, repair, or refund, as specified above. In no event will HHT be liable for any incidental or consequential damages caused by defects in the appliance. Some states do not allow exclusions or limitation of incidental or consequential damages, so these limitations may not apply to you. This warranty gives you specific rights; you may also have other rights, which vary from state to state. EXCEPT TO THE EXTENT PROVIDED BY LAW, HHT MAKES NO EXPRESS WARRANTIES OTHER THAN THE WARRANTY SPECIFIED HEREIN. THE DURATION OF ANY IMPLIED WARRANTY IS LIMITED TO DURATION OF THE EXPRESSED WARRANTY SPECIFIED ABOVE.



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Hearth & Home Technologies 1445 North Highway Colville, WA 99114 Division of HNI INDUSTRIES www.quadrafire.com

Please contact your Quadra-Fire dealer with any questions or concerns. For the number of your nearest Quadra-Fire dealer visit our website at www.guadrafire.com

NOTICE

DO NOT DISCARD THIS MANUAL



maintenance instructions included.

follow these instructions for safe installation and operation.

Important operating and • Read, understand and • Leave this manual with party responsible for use and operation.





We recommend that you record the following pertinent information for your CB1200-I PELLET INSERT

Date purchased/installed: _____

Dealership purchased from: _____ Dealer phone: _____

Notes:

Serial Number: _____ Location on appliance: _____

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.

