# **Owner's Manual**

## **Operation & Care**

INSTALLER: Leave this manual with party responsible for use and operation.

OWNER: Retain this manual for future reference.

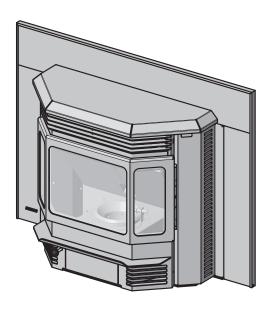
Contact your dealer with questions on installation, operation, or service.

NOTICE: DO NOT DISCARD THIS MANUAL



CB1200 PELLET INSERT APPLIANCE

MODEL: CB1200I-C









## **CAUTION**

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

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







### WARNING



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

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- <u>Do not over fire</u> If appliance or chimney connector glows, you are over firing. Over firing will void your warranty.
- Comply with all minimum clearances to combustibles as specified. Failure to comply may cause house fire.



## 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 SUPÉRVISE 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.



## **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.

**NOTE:** To obtain a French translation of this manual, please contact your dealer or visit <a href="https://www.quadrafire.com">www.quadrafire.com</a>

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

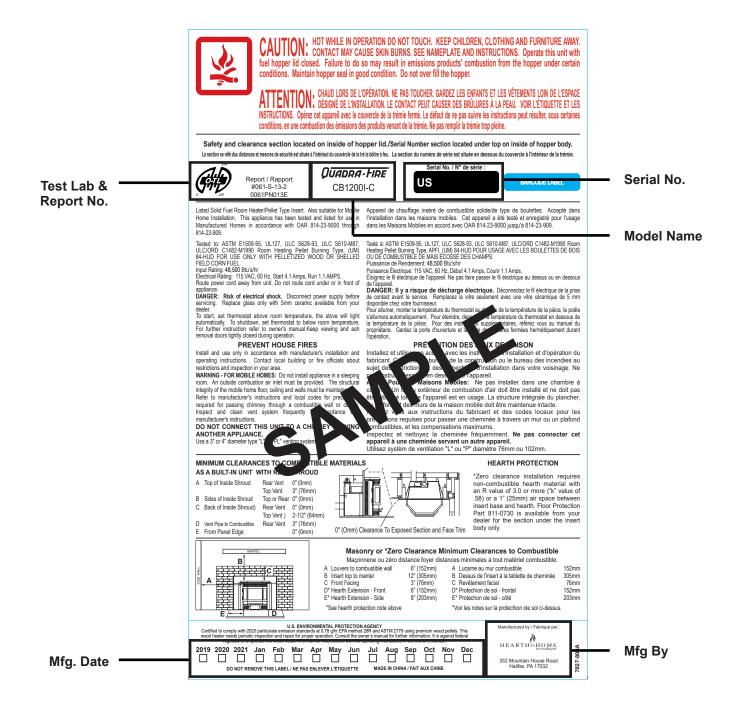


and Welcome to the Quadra-Fire Family!

**NOTE:** Clearances may only be reduced by means approved by the regulatory authority having jurisdiction

### A. Sample of Serial Number / Safety Label

LOCATION: On chain behind right access panel & Behind left access panel



3



- Safety Alert Key:

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

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## **B. Warranty Policy**

## Hearth & Home Technologies LIMITED LIFETIME WARRANTY

Hearth & Home Technologies, on behalf of its hearth brands ("HHT"), extends the following warranty for HHT gas, wood, pellet 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 for consumers begins at 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. However, 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 and pellet appliances. These time periods reflect the minimum expected useful lives of the designated components under normal operating conditions.

Warranty	Warranty Period		HHT Manufactured Appliances and Venting					
Parts	Labor	Gas	Pellet	Wood	Electric	Venting	Components Covered	
1 Ye	ear	х	х	х	х	х	All parts and material except as covered by Conditions, Exclusions, and Limitations listed	
			х	х			Igniters, auger motors, electronic components, and glass	
2 ye	ars	Х	Х	Х			Factory-installed blowers	
				Х			Molded refractory panels	
		X					Ignition Modules	
3 ye	ars		х				Firepots, burnpots, mechanical feeders/auger assemblies	
5 years	1 year	х					Vent Free burners, Vent Free ceramic fiber logs, Aluminized Burners	
. ,			X	Х			Castings and Baffles	
6 years	3 years			х			Catalyst - limitations listed	
7 years	3 years		х	х			Manifold tubes, HHT chimney and termination	
10 years	1 year	Х					Burners, logs and refractory	
Limited Lifetime	3 years	х	х	х			Firebox and heat exchanger, Grate and Stainless Steel Burners, FlexBurn® System (engine, inner cover,access cover and fireback)	
90 D	ays	х	х	х	х	х	All replacement parts beyond warranty period	

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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.
- This warranty is only valid in the country in which the HHT authorized dealer or distributor that sold the appliance resides.
- Contact your installing dealer for warranty service. If the installing dealer or distributor is unable to provide necessary parts, contact the nearest HHT authorized dealer or supplier. Additional service fees may apply if you are seeking warranty service from a dealer other than the dealer from whom you originally purchased the 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.
- Limited Catalyst Warranty
  - o For wood burning products containing a catalyst, the catalyst will be warranted for a six-year period as follows: if the original catalyst or a replacement catalyst proves defective or ceases to maintain 70% of its particulate emission reduction activity (as measured by an approved testing procedure) within 36 months from the purchase date, the catalyst will be replaced for free.
  - o From 37 to 72 months a pro-rated credit will be allowed against a replacement catalyst and labor credit necessary to install the replacement catalyst. The proration rate is as follows:

Amount of Time Since Purchase	Credit Towards Replacement Cost
0 - 36 Months	100%
37 - 48 Months	30%
49 - 60 Months	20%
61 - 72 Months	10%

o Any replacement catalyst will be warranted under the terms of the catalyst warranty for the remaining term of the original warranty. The purchaser must provide the name, address, and telephone number of the location where the product is installed, proof of original purchase date, date of failure, and any relevant information regarding the failure of the catalyst.

## **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 are not covered. These parts include: paint, wood and pellet gaskets, firebricks, grates, flame guides, batteries and the discoloration of glass.
- Minor expansion, contraction, or movement of certain parts causing noise. These conditions are normal and complaints related to this noise are not covered by this warranty.
- Damages resulting from: (1) failure to install, operate, or maintain the 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 operation 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 connections 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 the appliance location and configuration, environmental conditions, insulation and air tightness of the structure.

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#### This warranty is void if:

- The appliance has been over-fired, operated in atmospheres contaminated by chlorine, fluorine, or other damaging chemicals.

  Over-firing can be identified by, but not limited to, warped plates or tubes, deformation/warping of interior cast iron structure or components, rust colored cast iron, bubbling, cracking and discoloration of steel or enamel finishes.
- The 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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## **Listing and Code Approvals**

## A. Appliance Certification

Model	CB1200 Pellet Insert		
Laboratory	OMNI Test Laboratories, Inc.		
Safety Report No.	061-S-13-2		
Type Solid Fuel Room Appliance/Pellet Find Burning Type Insert			
Standard	ASTM E1509-95, UL127, ULC S628- 93, ULC S610-M87, and ULC/ORD- C1482-M1990 Room Appliance Pellet Fuel Burning Type, (UM) 84-HUD.For use only with palletized wood or shelled field corn fuel. Mobile Home Approved		

## **B. BTU & Efficiency Specifications**

Emissions Report #:	0061PN013E
EPA Certification #:	171-19
<b>EPA Certified Emissions:</b>	0.8 grams per hour
*LHV Tested Efficiency:	67.6%
**HHV Tested Efficiency:	63.6%
***EPA BTU Output:	10,200 to 33,900 / hr.
****BTU Input:	17,000 to 48,500 / hr.
Vent Size:	3, 4 "L" or "PL", or 6"
Hopper Capacity:	75 lbs.
Fuel	Premium Wood Pellets
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<sup>\*</sup>Weighted average LHV (Low Heating Value) efficiency using data collected during EPA emissions tests.

The Classic Bay 1200 insert is Certified to comply with 2020 particulate emission standards.



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.

NOTE: This installation must conform with local codes. In the absence of local codes you must comply with the ASTM E1509-95, UL127, ULC S628-93, ULC S610-M87, ULC/ORD-C-1482-M1990, (UM) 84-HUD

<sup>\*\*</sup>Weighted average HHV (High Heating Value) efficiency using data collected during EPA emissions tests.

<sup>\*\*\*</sup>A range of BTU outputs based on HHV and the burn rates from the low and high EPA tests.

<sup>\*\*\*\*</sup>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.

<sup>‡</sup> Grade of pellet fuel as certified by Pellet Fuels Institute (PFI), ENPlus or CANplus.

## 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.
- Outside Air Kit, part 811-0872 must be installed in a mobile home installation.

## 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 Amp

## F. Sleeping Room

When installed in a sleeping room it is recommended that 3ft of vertical be installed prior to horizontally exiting the room and a smoke/CO alarm be installed in the bedroom; The size of the room must be at least 50ft³ per 1,000 Btu/hr stove input, if the stove exceeds the room size, out air must be installed.

## G. California - Prop65



## **WARNING**

This product and the fuels used to operate this product (wood), and the products of combustion of such fuels, can expose you to chemicals including carbon black, which is known to the State of California to cause cancer, and carbon monoxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to: WWW.P65Warnings.ca.gov



## 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 appliance).
- <u>Do NOT Over fire</u> If appliance or chimney connector glows, you are over firing.

Any such action that may cause a fire hazard.

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.

## **User Guide**

# 2 Operating Instructions



#### WARNING



#### Fire Risk.

Do not operate appliance before reading and understanding operating instructions.



Failure to operate appliance properly may cause a house fire.

Visit www.quadrafire.com/shopping-tools/videos to view product and use & care videos.

#### A. Fire Safety

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

- Install at least one smoke detector and CO monitor on each floor of your home.
- Locate detectors away from the heating appliance and close to the sleeping areas.
- Follow the detector's manufacturer's placement and installation instructions and maintain regularly.
- 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.

#### B. Non-Combustible Materials

Material which will not ignite and burn, composed of any combination of the following:

- Steel - Brick - Concrete - Glass - Tile - Slate - Plaster - Iron

Materials reported as passing ASTM E 136, Standard Test Method for Behavior of Metals, in a Vertical Tube Furnace of 750°C.

#### C. Combustible Materials

Material made of/or surfaced with any of the following materials:

- Wood - Plastic

- Compressed Paper - Plywood/OSB

- Plant Fibers - Sheet Rock (drywall)

Any material that can ignite and burn: flame proofed or not, plastered or non-plastered.

#### D. Fuel Material and Fuel Storage

Pellet fuel quality can greatly fluctuate. This appliance has been designed to burn a wide variety of fuels, giving you the choice to use the fuel that is most economical in your region.

Hearth & Home Technologies strongly recommends only using Pellet Fuel Institute (PFI) certified fuel.

#### **Fuel Material**

- Made from sawdust or wood by-products
- Depending on the source material it may have a high or low ash content.

#### **Higher Ash Content Material**

- Hardwoods with a high mineral content
- Fuel that contains bark
- Standard grade pellets, high ash pellets, corn and other biomass fuels

#### **Lower Ash Content Material**

- Softwoods
- Fuels with low mineral content
- Premium grade pellets

#### Corn

- A 1:1 mix of pellets to corn is approved, but may require the fire pot to be cleaned more frequently.
- 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 corn used.
- Corn must be free of debris. Never burn corn straight from the field. It 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 use corn that contains additives such as oils or means or has been chemically treated with pesticides. It will void your warranty and destroy the exhaust system.



## **CAUTION**

Do not burn fuel that contains an additive; (such as soybean oil).

- May cause hopper fires
- Damage to product may result

Read the ingredients list on the package. If you are buying corn the only ingredient that should be listed is corn.



## WARNING

#### **Risk of Chemical Poisoning!**

Do NOT burn treated seed corn

- Chemical pesticides are harmful or fatal if swallowed
- Burning treated seed corn will void your warranty

Minerals and other non-combustible materials such as sand will turn into a hard, glass-like substance called a clinker when heated in the fire pot.

Trees from different areas will vary in mineral content. That is why some fuels produce more clinkers than others.

#### **Moisture**

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.

#### Size

- Pellets are either 1/4 inch or 5/16 inch (6-8mm) in diameter
- Length should be no more that 1-1/2 inches (38mm)
- Pellet lengths can vary from lot to lot from the same manufacturer
- Due to length variations, the flame height (feed rate) may need adjusting occasionally.

#### **Performance**

- Higher ash content requires the ash drawer to be emptied more frequently
- · Hardwoods require more air to burn properly
- Premium wood pellets produce the highest heat output.
- Burning pellets longer than 1-1/2 inches (38mm) can cause an inconsistent fuel feed rate and/or missed ignitions.

#### **Changing to Different Fuel Type**

- Empty the hopper of the previous fuel
- Thoroughly vacuum hopper before filling with the new fuel

The burn rate, BTU content and heat output will all vary depending on the fuel selected.

## **CAUTION**

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

#### **Storage**

- Wood pellets should be left in their original sealed bag until using to prevent moisture absorption.
- Do not store any pellet fuel within the clearance requirements or in an area that would hinder routine cleaning and maintenance.

## E. 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 drawer and firebox are empty!
- 3. Check the position of the thermocouple, located above the fire pot, and make sure that it protrudes approximately 3/4 inch (19mm) into the fire pot.
- 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.

#### F. Filling the Hopper

Open the hopper lid by lifting the handle. Fill the hopper with fuel. Close the hopper lid. The unit will not feed with the hopper lid open and the fire will go out.

NOTE: UNIT CAN USE 1:1 PELLET/CORN MIXTURE.

We recommend the use of a 1:1 pellet/corn
mixture. The only change in operation is that the
feed rate may require a slight adjustment.

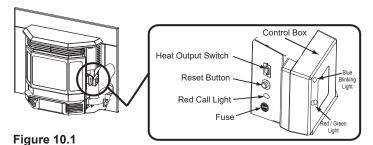
## G. General Operating Information

#### 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 10.1).

#### 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.



## H. Starting Your First Fire

- 1. A thermostat is required for proper operation of this appliance. At this time, fill the hopper with pellets, set the thermostat to its lowest setting. Plug the power cord into nearby outlet.
- The exhaust blower will stay on for approximately 18 minutes even though the thermostat is not calling for heat. This is normal.
- Locate the heat output control switch on the lower right side of the firebox in front of the right access 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 front of the junction box behind the left access panel. This indicates the thermostat is calling for heat (Figure 10.1 on page 10).
- The fuel feed system and the igniter should now be on.
- For your first fire it will be necessary to press the reset button once a minute until pellets start to drop into the fire pot, then press button 1 more time. This will fill the feed system and allow the appliance to begin dropping pellets. The appliance will continue to run as long as the thermostat is calling for heat.
- 6. Once the appliance has ignited, let 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.



## WARNING

#### Fire Risk

Do NOT operate appliance:



- With appliance door open. Fire pot 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.

#### I. 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 fire pot 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.

#### J. 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 set loose at the factory so the fuel adjustment control rod will slide by only loosening the wing nut (Figure 11.1). 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. Loosen the wing nut (Figure 11.1).
- 2. 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.
- 3. Re-tighten the wing nut.

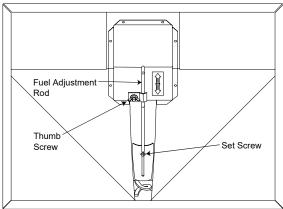


Figure 11.1 - Example



## **CAUTION**

Hot while in operation. Keep children, clothing and furniture away. Contact may cause skin burns.

#### K. Ignition Cycles

- During each ignition cycle, it is normal to see some smoke in the firebox. The smoke will stop once the fire starts.
- 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 (Figure 10.1 on page 10). 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 on page 11, "Starting Your First Fire".



#### WARNING

#### Fire Risk.



- High ask fuels, or lack of maintenance, can cause the fire pot to fill with ash and clinker. If the fire pot fills to the top, immediately shut down the appliance and clean.
- Failure to do so could result in smoking, sooting and possible hoper fires.

## **CAUTION**

HOT WHILE IN OPERATION. KEEP CHILDREN, CLOTHING AND FURNITURE AWAY. CONTACT MAY CAUSE SKIN BURNS.

#### L. Insert Removal

In the case that service or inspection is required the appliance may need to be removed from the wall.

- Appliance must be unplugged before removal of appliance is possible. Unplug the appliance from its power source.
- 2. Remove insert surround from appliance, to ease the process of removal.
- 3. Remove the clip from the exhaust transition from the exhaust outlet in the back of the appliance. This is what connects the venting to the appliance. Removal of the clips will allow you to remove the appliance from the wall without damaging or adjusting the venting.
- 4. Slide appliance from the wall and rotate either direction as needed.

## M. Restarting the Appliance

#### **Restart Process**

- 1. When the unit has run out of fuel, add pellet fuel to the hopper.
- 2. Dump the ashes and clinkers built up in the fire pot by pulling the ash dump removal handle out several times. Make sure clinkers have dropped into the ash pan then return the handle to fully closed position.
- 3. Press the reset button; the appliance will then being its startup sequence.

#### **Restarting After a Power Failure**

1. For an electrical disruption the appliance will start on its own without need for priming - providing the control system is asking for heat.

#### N. Clear Space

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

**NOTICE:** Clearances may only be reduced by means approved by the regulatory authority having jurisdiction.



## WARNING



## Fire Risk.

Do NOT place combustible objects in front of the appliance. High temperatures may ignite clothing, furniture or draperies. Maintain a minimum clearance of 3 feet (914mm) in front of appliance.



#### WARNING



## Fire Risk.

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 Appliance.
- DO NOT BURN GARBAGE OR FLAMMABLE FLUIDS SUCH AS GASOLINE, NAPHTHA OR ENGINE OIL.
- DO NOT USE CHEMICALS OR FLUIDS TO START THE FIRE.
- Keep all such liquids well away from the appliance while it is in use.
- · Combustible materials may ignite.

## O. Thermostat Controls TEMPERATURE (HEAT / OFF) SWITCH:

Set this switch to Heat to control your appliance. The off position will disable the appliance.

#### **SET (MULTI- FUNCTION) SLIDE SWITCH:**

This provides easy access to common settings, and should always remain in RUN unless items are being adjusted.

**NOTE:** When thermostat is set to "Manual" non-programmable mode, all positions of the SET slide switch will act like RUN.

#### **UP / DOWN BUTTONS:**

The up and down buttons are used to control the set temperature, or adjust any other on-screen items. An items flashing, is the item currently being adjusted.

#### **HOLD BUTTON:**

This button activates and deactivates the manual Temperature Hold feature, which maintains a fixed set temperature indefinitely without following a program routine.

#### **COPY BUTTON:**

This is used to copy temperature program items from one day to the next. Also used to access the menu setup.

#### **NEXT BUTTON:**

This is used when setting items such as software options, and temperature programs when they are flashing on the screen. Pressing the next button will cycle through which item is flashing.

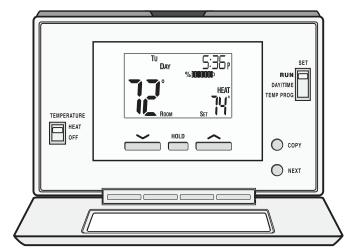


Figure 13.1

#### P. Thermostat Setup Options

Setup options for how the thermostat will function are performed using a menu on the display screen.

#### TO ACCESS THE SETUP MENU:

Move the System Mode Switch into the OFF position, and then hold down the COPY button for approximately 5 seconds until the screen changes. The menu will always start with item #01, and is advanced to each following item by a single press of the next button. The options for each item are changed using the Up or Down buttons.

#### ITEM #01 (CLK = CLOCK FORMAT):

- 12Hr, default: This displays the clock times using standard AM and PM values.
- <u>24Hr:</u> This displays the clock times using the militarytime format (example 22:00 hours, without using AM or PM).

#### ITEM #02 (TMP = TEMPERATURE SCALE):

- <u>F, default:</u> Shows all temperature values in Fahrenheit.
- <u>C:</u> Shows all temperature values Celsius.

#### ITEM #03 (PROGRAMMING STYLE):

- 7 Day, default: This style uses a separate program routine for each of the 7 days in the week.
- <u>5/2 Day:</u> This style uses a weekday program routine for Monday, Tuesday, Wednesday, Thursday, Friday, and a separate weekend program routine for Saturday and Sunday.
- Manual Non-Programmable: In this setting, there are no program routines for the thermostat to follow and the temperature control will be set only by the UP and DOWN buttons on the front panel.

#### ITEM #04 (PERD = EVENT OR PERIOD QUANTITY):

- 4P, default: Thermostat uses four Events per day (called morn, day, eve, and nite).
- <u>2P:</u> The thermostat uses two Events per day (called day and nite).

**NOTE:** Event or Period Quantity feature is not accessible during Manual Non-Programmable mode.

## ITEM #07 (DLAY = DELAY TIME):

- <u>5, default:</u> Thermostat waits 5 minutes before turning the system back on after it was last run. This internal delay prevents the appliance from turning on too quickly after shutting down. The 5 minute setting is fine for most applications.
- <u>2:</u> Same operation as above but reduced to 2 minutes between state changes.

**NOTE:** This delay does not happen when the thermostat is manually turned up and down.

#### ITEM #08 (TEMPERATURE DIFFERENTIAL):

- The thermostat works by turning your heating system on and off whenever the room temperature varies from the desired set-point temperature.
- Use the UP/DOWN buttons to change the number value between 1 and 9. Generally your system should cycle on about 3 to 6 times per hour. A smaller differential number makes the system cycle more frequently, so the room temperature is more precise and constant. A larger differential number will make the system remain on for a longer duration each time and decreases the number of cycles per hour.
- Default is set to 4.

# Q. Thermostat Operation Instructions SET DAY AND TIME:

Place the Set switch into the DAY/TIME position. With the day flashing press UP or DOWN to set the day or the week. Press NEXT and the clock time will start flashing. Use UP or DOWN to set the time; verify the AM/PM indicator is correct. Return the Set switch to RUN position when finished.

#### **HEATING:**

Basic operation of the thermostat can be obtained with the SET switch in the RUN position. The temperature can be adjusted using the UP and DOWN buttons. When the thermostat is first powered on, it will follow a default temperature routine that is preset from the factory (Figure 14.1).

Event	Time	Temperature
MORN	6:00 AM	70°F (21°C)
DAY	8:00 AM	62°F (17°C)
EVE	6:00 PM	70°F (21°C)
NITE	10:00 PM	62°F (17°C)

Figure 14.1

#### LCD DISPLAY BACK LIGHT:

The display screen is lighted to assist viewing at nighttime, or in locations with low light levels. Press any button on the front panel to activate the approximate 10 second back light.

#### **TEMPERATURE OVERRIDE:**

While thermostat is in RUN mode, the set temperature can be temporarily changed by pressing UP or DOWN. The temporarily changed set temperature will return to the programmed value stored in memory when start time of the next upcoming scheduled event is reached (MORN, DAY, EVE, OR NITE). While the temporary changed set temperature is in effect, the word OVERRIDE will be shown on the display screen. To cancel, move TEMPERATURE switch to OFF and back to HEAT again.

#### **TEMPERATURE HOLD:**

Temperature hold is used for maintaining a fixed set temperature; once a hold is initiated, the thermostat will maintain the set temperature indefinitely. To enter a HOLD state, press the HOLD button one time and the word HOLD will appear on the display. To cancel, press the HOLD button once again.

## STATIC NOTICE

Thermostat is protected against normal static electric discharges, however to minimize the risk of damaging the thermostat in extremely dry weather, please touch a grounded metal object before touching the thermostat.

## R. Thermostat Temperature Programs

The thermostat by default has 4 separate program events they are: MORN, DAY, EVE, and NITE. Each event ends at the start time of the following event.

**NOTE:** If the thermostat is set for 2 events a day instead of 4, the thermostat will only use the DAY and NITE events.

#### **SET TEMPERATURE PROGRAMS:**

- 1. Move Temperature switch to HEAT.
- 2. Move SET switch to TEMP PROG position.
- 3. Starting with Monday, use the UP or DOWN buttons to adjust the start time and set temperature for the MORN event, and then press NEXT button to advance.
- 4. Adjust the start time and set temperature of the DAY event then press NEXT button.
- Continue in this same manner to adjust the start time and set temperatures for the EVE and NITE events for Monday.

**NOTE:** When the last event is finished for each day or group of days, the thermostat will advance forward into the next day or group of days.

- 6. Use steps 3 through 5 to set up the events for the rest of the week or group of days.
- 7. Return the SET switch back to RUN.

#### **COPY PROGRAM FEATURE:**

Using similar instructions as set temperature programs the COPY button will allow a whole day of set program events to be copied to another day.

- Move Temperature switch to HEAT as well as move SET switch to TEMP PROG position.
- Starting with Monday, use the UP or DOWN buttons to adjust the start time and set temperature for the MORN, DAY, EVE, and NITE events. Press the COPY button and then press the NEXT button to advance to Tuesday.
- With Tuesday displayed press COPY button. As all programs events from Monday will be copied to Tuesday (this will advance automatically to the next day; Wednesday, as the word COPY will appear on the screen for one second).
- 4. Continue in this pressing COPY button to set desired days with original setting.

**NOTE:** The word COPY will not appear on the display for Monday, but will display each day afterwards for approximately one second and the day of the week will automatically advance forward to the next day.

#### S. Thermostat Other Features

**NOTE:** All other features need to be completed in a timely manner as the thermostat will time out after 10 seconds.

#### **TEMPERATURE CALIBRATION:**

The internal temperature sensor in this thermostat is accurately calibrated at the factory, and in most cases alterations to this setting should not be needed. The temperature calibration feature allows you to manually offset the measured temperature by as much as plus or minus 5°F (3°C) from its original value. If several thermostats are used in the same house, this feature can be used to synchronize this thermostat to the others.

#### Change the temperature calibration:

- 1. Move TEMPERATURE switch to OFF.
- 2. Move SET switch to RUN.
- Press and hold both UP and DOWN buttons together for at least 5 seconds; the words SET and CAL will appear on the display along with a single flashing temperature digit.
- 4. Use the UP or DOWN buttons to change the number of degrees desired for adjustment; 0° is the default value and also means no correction will be applied.
- 5. Press the NEXT button to accept the setting.

#### **KEYPAD LOCKOUT:**

There is the option to lock the front panel buttons to prevent unauthorized tampering of your thermostat settings.

#### To Lock the Keypad:

- 1. Move TEMPERATURE switch to HEAT.
- 2. Move SET switch to RUN.
- 3. Perform a single press of each button in the following sequence:
  - NEXT, NEXT, NEXT, HOLD

A padlock will appear on the display screen.

#### To Unlock the Keypad:

- 1. Move TEMPERATURE switch to HEAT.
- 2. Move SET switch to RUN.
- 3. Perform a single press of each button in the following sequence:
  - NEXT, NEXT, NEXT, HOLD

A padlock will no longer be present on the display screen.

#### **HARDWARE RESET:**

The hardware reset button; labeled HW RST, is a small round push button that is located in the middle of the circuit board, just below the battery holder (Figure 15.1). Pressing this button will:

- Cause the LCD display screen to become fully populated
- Thermostat to perform an internal system check of its components

If the thermostat appears to be acting in an erratic manner, pressing the HW RST button may remedy this behavior. The temperature programs are not erased when a hardware reset is performed, however the clock will have to be changed to match the current day and time.



HW RST

Figure 15.1

## **SOFTWARE RESET:**

Software reset is used to erase ALL temperature events, and to return all user-adjustable software settings back to their original factory default settings.

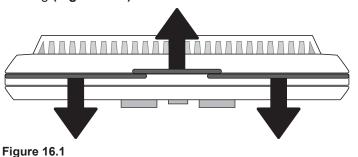
#### To Perform a Software Rest:

- 1. Verify the thermostat's keypad is not locked.
- 2. Move TEMPERATURE switch to OFF.
- 3. Press and hold the UP, DOWN, and NEXT buttons all at the same time for at least 5 seconds. When the LCD display screen will become fully populated let go of all buttons at that point the screen will return to normal.

The clock will have to be changed to match the current day and time.

## T. Thermostat Battery Replacement

This thermostat is powered by two "AA" Alkaline batteries. The batteries should be replaced AT LEAST once per year to ensure reliable operation or sooner if the LO BATT appears on the display screen. The batteries are located on the back of the thermostat's circuit board. The front portion of the thermostat can be removed from the back half by using the tabs on the top edge of the thermostat housing (Figure 16.1).



When installing new batteries, it is recommended using only brand new "AA" size alkaline batteries. Please verify the polarity markings shown in the battery compartment before adding batteries to the compartment. When finished, line up the front of the thermostat to the base, and firmly press together to securely latch the front and back halves together properly.

#### **BATTERY GRAPHIC:**

Anytime time the batteries are physically present in the thermostat, there will be a visual indicator showing the life of the battery. This will appear on the display screen (Figures 16.2 & 16.3).



Figure 16.2 - Full battery icon

# %IIIIIÞ

Figure 16.3 - Low battery icon

#### **CONNECT THERMOSTAT WIRES TO APPLIANCE:**

There is a 4 screw terminal block located on the back lower left corner of the stove directly above the power cord inlet. The center 2 screws are for the thermostat wires (Figure 16.4).

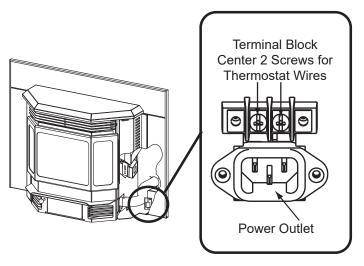
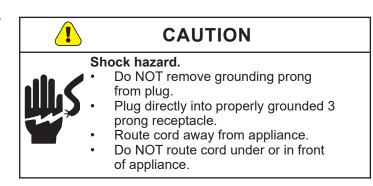


Figure 16.4



## **U. Frequently Asked Questions**

#### What causes my glass to become dirty?

If the glass has white ash build up it is normal and the glass should be cleaned. If it is a black soot build up airflow through the unit may be restricted. The most often cause is overdue maintenance and cleaning. See "Maintaining and Servicing Appliance" and/or make adjustments to the trim control.

### How can I get more heat out of the appliance?

The most often cause of diminished heat output is overdue maintenance and cleaning. See "Maintaining and Servicing Appliance".

#### What should I do if I smell smoke or there is ash/soot coming from the appliance?

While there will always be some smoke smell from wood burning appliances (including pellet) you should investigate all venting to make sure it is sealed properly. Most venting requires silicone to seal the seams.

In addition most homes are built very tight today and with exhaust systems can create negative pressure in the home. See "Negative Pressure" under "Getting Started" in the owner's manual if you have checked the venting but still have smoke coming from the appliance. For ash or soot check the above and the exhaust blower housing and seals.

#### Why would my appliance run fine last winter but not start this fall?

It is possible that the stove was not properly prepared for the Non-burn season (see troubleshooting section).

#### Is there a place to lubricate the blowers to quiet them down?

No. The most often cause of noisy blowers is from the impellers becoming dirty over time. See maintenance and service section for maintaining and servicing.

#### What is the metal object with the bend in it that came inside the plastic bag?

It is a clean-out tool used to help clean the fire pot and remove any jams in the rare event they occur in the feed tube.

#### Why is there a black residue building up on the outside of my home?

Wind can cause this to happen. If the appliance is operating correctly very little soot should ever exit the termination cap. Check to be sure the venting is installed per the owner's manual and local codes.

#### Do I need an outside air kit?

Outside air is required for mobile home installs and in some jurisdictions. Refer to "Listing & Code Approvals", "Mobile Home Installation" and "Appliance Set-up". Also refer to local building codes.

#### I am seeing sparks coming out of my pipe (termination cap) outside is this safe?

This is normal. As long as clearances to combustibles were followed this is safe.

#### I have no power to anything. Does this unit have a circuit breaker or fuse or a reset button?

This unit has one fuse on the control board and a resettable snap disc mounted to the feed tube. If the appliance overheats then the snap disc can be reset; if the fuse is blown the control board must be replaced.

#### Can I burn corn in my unit?

Yes, this appliance can burn corn type fuel at a 1:1 ratio.

#### Where is the serial # located on my unit?

Freestanding - the serial number is located on the back of the stove.

## No pellets are dropping in my fire pot.

See troubleshooting guide.

Contact your dealer for additional information regarding operation and troubleshooting.

Visit <a href="https://www.quadrafire.com">www.quadrafire.com</a> to locate a dealer.

3

## **Maintenance and Service**

When properly maintained, your fireplace will give you many years of trouble-free service. Contact your dealer to answer question regarding proper operation, troubleshooting and service for your appliance. Visit <a href="https://www.quadrafire.com/owner-resources">www.quadrafire.com/owner-resources</a> to view basic troubleshooting, FAQs, use & care videos. We recommend annual service by a qualified service technician.

## A. Proper Shutdown Procedure

Turn off the thermostat.

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.



## **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 in the chart below. B. Quick Reference Maintenance Chart

Cleaning or Inspection	Frequency		Daily	Weekly	Monthly	Yearly
Ash Pan (Wood Pellets)	Every 5 bags of fuel	OR		Х		
Ash Pan (Corn)	Daily		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			X	
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			X	
Exhaust Path	More frequently depending on ash build-up	OR				Х
Firebox - Prepare for Non-Burn Season	At end of heating season	OR				Х
Fire pot - Burning pellets - hardwood	Every 3 bags	OR	Х			
Fire pot - Burning pellets - softwood	Every 5 bags	OR	Х			
Fire pot - Burning Corn	Every 1 bag	OR	X			
Glass	When clear view of fire pot 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. <u>Not properly cleaning your appliance on a regular basis will void your warranty.</u>

## C. General Maintenance and Cleaning

#### 1. Types of Fuel

Type of fuel you are burning will dictate how often you have to clean your fire pot.

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 fire pot more than once a day.

Dirty fuel will cause clinkers to form in the fire pot (Figure 19.1). A clinker is formed when dirt, ash or a non-burnable substance is heated to 2000°F (1093°C) and becomes glass-like. See Section C. High Ash Fuel Content Maintenance on page 15 in this section for more details on fuels with high ash content.

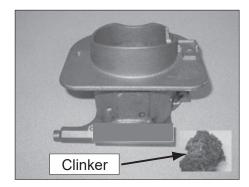


Figure 19.1

## 2. Cleaning Fire pot with Cleaning Rod & Fire pot Clean-Out Tool

- Frequency: Daily or more often as needed
- By: Homeowner
- a. The appliance must be in complete shutdown and cool and the exhaust blower off.

**NOTE:** If you are just cleaning the fire pot, there is no need to unplug the insert.

- b. Pull fire pot cleaning rod OUT and IN a couple of times to help shake debris loose.
- c. If rod is hard to pull, it may be necessary to use your fire pot clean-out tool to chip away material that has built up on the bottom plate of the fire pot and to push out any clinkers. Larger clinkers may have to be removed from the top of the fire pot. Corn clinkers can be especially difficult to break up.
- d. The fire pot floor plate must be fully closed when finished (Figure 19.2).

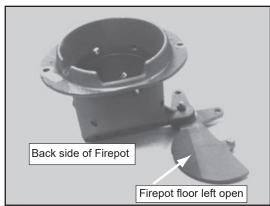


#### WARNING



### Fire Risk.

NEVER pull fire pot cleaning rods or cleaning slide plates when appliance is operating. Hot pellets may fall into ash pan and may start a fire or have mis-starts due to lack of vacuum.



**Figure 19.2** 

#### 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. 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. Open door. There are 2 cleaning slide plates to the left and right of the fire pot with finger holes. Pull both slide plates out and sweep the remaining ash from the firebox into the 2 open holes. A paint brush works well for this. Close slide plates.
- d. This ash is deposited in the same ash drawer as the fire pot debris. The ash drawer should be emptied every time you clean the firebox. Remember to place the ash and debris into a metal or non-combustible container.
- e. The 2 cleaning slide plates must be fully closed when cleaning is complete. **See Disposal of Ashes.**

#### 4. Cleaning Ash Drawer

- Frequency: Weekly or every 5 bags of fuel
- By: Homeowner

Empty into a non-combustible container and re-install ash drawer. **See Disposal of Ashes.** 



#### WARNING



#### Fire Risk

The cleaning slide plates must be fully CLOSED when appliance is operating. Hot pellets may fall into ash pan and start a fire.

#### 5. <u>Disposal of Ashes</u>

- Frequency: As needed
- By: Homeowner

Ashes should be placed in a metal container with a tight-fitting lid. The container of ashes should be moved outdoors immediately and 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.



## **WARNING**



### 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 every 1 ton of fuel
- By: Homeowner

After burning approximately 1 ton of fuel you will need to clean the hopper to prevent sawdust build-up. A combination of sawdust and pellets on the auger reduces the amount of fuel supply to the fire pot. This can result in nuisance shutdowns and mis-starts.

- a. The appliance must be in complete shutdown. Allow the appliance to completely cool down.
- b. Empty the hopper of any remaining pellets.
- c. Vacuum the hopper and feed tube.

**NOTE:** Hearth & Home Technologies recommends to use a heavy duty vacuum cleaners specifically designed for solid fuel appliance cleaning.

#### 7. Cleaning Heat Exchanger Chambers & Drop Tube

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

The amount of ash buildup in the firebox 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 bent handle pull rods are located close to the face of the appliance to the left and right side (**Figure 20.1**).
- c. To clean, pull the rods straight out until it stops, approximately 8 inches (203mm). Slide the rods OUT and IN a couple of times.

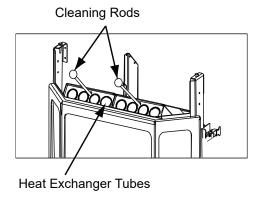


Figure 20.1

**WARNING** 



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.

#### 8. Cleaning Beneath Heat Exchanger

- Frequency: Monthly or every 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 baffle. This will require removing the baffle and cast brick set. Please refer to Remove Baffle to Access Heat Exchanger Tubes and Firebox Exhaust Exits on pages 14 for a detailed explanation of removing the baffle and brick set.

#### 9. Cleaning Exhaust Path

- **Frequency:** Yearly or more frequently depending on ash build-up.
- By: Homeowner
- 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 fire pot is obscure
- By: Homeowner
- Appliance must be completely cool before cleaning glass.
- b. Use a damp paper towel or any non-abrasive 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 hot.
- Do NOT use abrasive cleaners.
- Use a hard water deposit glass cleaner on white film.
- Refer to maintenance instructions.



## **WARNING**



Handle glass with care.

- Inspect the gasket to ensure it is undamaged.
- Do NOT strike, slam or scratch glass.
- Do NOT operate appliance with glass assembly removed.

#### 11. Door Latch Inspection

- Frequency: Prior to heating season
- By: Homeowner

The door latch is non-adjustable but the gasket between the glass and firebox should be inspected periodically to make sure there is a good seal.

**NOTE:** There is no gasket on the bottom of glass.

#### 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: Qualified Service Technician
- Task: Contact your local dealer.

#### 14. <u>Cleaning Convection Blower - Requires No</u> Lubrication

- Frequency: Yearly or as needed
- By: Qualified Service Technician
- Task: Contact your local dealer.

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

- Frequency: Yearly or more frequently depending on ash build-up
- **By:** Qualified Service Technician/Homeowner
  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. Incomplete
  combustion, such as occurs during startup, shutdown, or
  incorrect operation of the room appliance will lead to some
  soot formation which will collect in the exhaust venting
  system. The exhaust venting system should be inspected at
  least once every year to determine if cleaning is necessary.

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: At the end of the heating season
- By: Homeowner
- a. Be sure the appliance is allowed to cool, has been unplugged and the exhaust blower is off.
- o. 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. Remove Baffle to Access Heat Exchanger Tubes and Firebox Exhaust Exits

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

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

- Use a Shop Vac to vacuum any fly ash and soot from the heat exchanger tubes and firebox area (Figure 22.1).
- b. Remove any debris that may be in the drop tube.

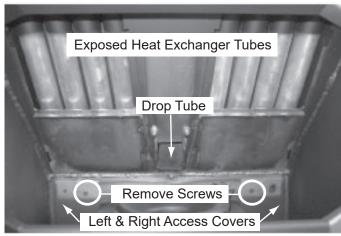


Figure 22.1 - Baffles Removed

#### 19. Clean Firebox Exhaust Exits & Exhaust Blower

- a. There are 2 exhaust exits at the back of the firebox on the left and right side (**Figure 22.1**).
- b. Using a Phillips head screwdriver remove the screws and set aside the access covers.
- c. Vacuum the 2 exhaust exits thoroughly.
- d. Clean the exhaust blower blades while the access cover on the left side is still removed (Figure 22.3 and Figure 23.4).

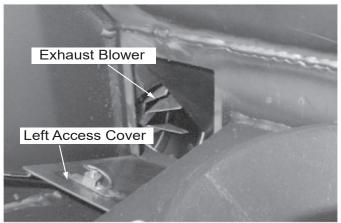


Figure 22.2

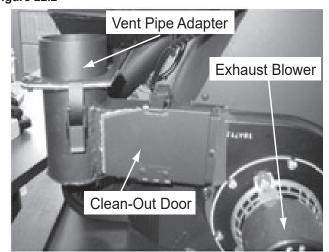
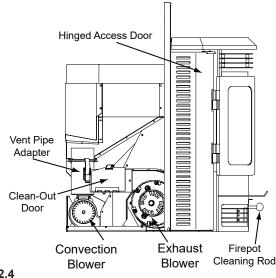


Figure 22.3



#### D. Soot or Creosote Fire Awareness

The chimney should be inspected periodically during the heating season to determine if a creosote build-up has occurred. If a significant layer of creosote has accumulated (1/8 inch [3mm] or more) it should be removed to reduce the risk of chimney fire.

Check daily for creosote build-up until experience shows how often you need to clean to be safe. Be aware that the hotter the fire the less creosote is deposited, and weekly cleaning may be necessary in the mild weather even though monthly cleaning may be enough in the coldest months. Contact your local municipal or provincial fire authority for information on how to handle a chimney fire.

In the event of a soot or creosote fire, close the firebox door, exit the building immediately and contact the proper fire authorities.

DO NOT under any circumstances re-enter the building.

#### E. High Ash Fuel Content Maintenance

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

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

This condition makes the appliance susceptible to overfilling the fire pot with pellets which may result in smoking, sooting and possible hopper fires. **Figure 23.1** shows an example where the fire pot 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 23.2**.

The correct flame size when good quality, premium pellet fuel is burned is shown in **Figure 23.3**.

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

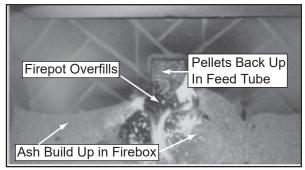


Figure 23.1

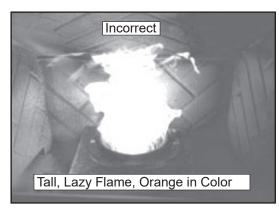


Figure 23.2

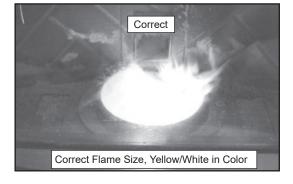


Figure 23.3



## **Troubleshooting Guide**

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 response.	No current to outlet. 7 amp fuse defective. #3 snap disc tripped or defective. Control box defective.	Check circuit breaker at service panel. Replace fuse. Reset or replace snap disc. Replace control box.
Call light on. No fire. No fuel in fire pot.	Out of fuel. #2 snap disc may be defective. Vacuum switch not closing, no vacuum.  Control box defective.	Check hopper. Fill with fuel. Replace snap disc. 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. Replace control box.
Call light on. No fire. Partially burned fuel in fire pot.	Fire pot clean-out plate not closed.  Fire pot is dirty (missed ignition).	Check that fire pot clean-out plate is fully closed. Clean fire pot. Make sure there is no clinker in the fire pot. See page 12. Clinkers may have to be broken up with fire pot clean-out tool or other means.
Call light on. No fire. Unburned pellets in fire pot.	Fire pot clean-out plate not closed.  Fire pot is dirty.  The ignition hole between the igniter bracket and fire pot is blocked.  Igniter not working.  Control box defective.	Check that fire pot clean-out plate is fully closed. Clean fire pot. Make sure there is not a clinker in the fire pot. Clinkers may have to be pushed out of fire pot with fire pot clean-out tool or other means. Scrape with solid piece of wire. Remove ash drawer to see if igniter is glowing red on start-up. Check igniter wires for good connection. Replace igniter using 1/4 inch (6mm) male / female spade connectors. Replace control box.
Slow or smoky start-up.	Fire pot clean-out plate not closed. Fire pot is dirty.  Excessive amount of fuel at start-up.  Dirty exhaust and/or venting system.	Check that fire pot clean-out is fully closed. Clean fire pot. Make sure there is not a clinker in the fire pot. Clinkers may have to pushed out of fire pot with fire pot clean-out tool or other means. Reduce feed rate using feed rate adjustment control rod located inside hopper. Check for ash build up in appliance, including behind rear panels, firebox, heat exchanger, exhaust blower and venting.
No call light. Appliance does not begin start sequence.	Thermostat not set to a high enough temperature. Snap Disc #3 tripped. No power. Fuse blown. Connections at thermostat and/or appliance not making proper contact. Defective thermostat or thermostat wiring.  Control box defective.	Adjust thermostat above room temperature. Reset snap disc. Connect to power. Replace fuse. Check connections at thermostat and appliance. 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. Replace control box.

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
Feed system fails to start.	Out of fuel. #2 snap disc may be defective.	Check hopper, fill with fuel. Replace snap disc. Firebox door must be closed securely.
	Vacuum switch not closing. No vacuum.  Feed system jammed or blocked.	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 venting system can pressurize the firebox causing loss of vacuum. Empty hopper of fuel. Use a wet/dry vacuum cleaner to
	Feed spring not turning with feed motor.  Feed motor defective or not plugged in.	remove remaining fuel, from hopper, including feed tube. Check feed chute for obstructions. Loosen 2 screws and jiggle feed assembly. Check that set screw is tight on feed spring shaft at end of feed motor. Check connections on feed motor, replace if defective.
Appliance fails to shut off.	Call light on.	Turn thermostat off.
Appliance fails to shat on.	Odii ligiit oli.	If call light does not go out, disconnect thermostat wires from appliance. If call light does go out, thermostat or wires are defective.
Convection blower fails	#1 snap disc defective.	Replace snap disc.
to start	Blower not plugged in.	Check that blower is plugged into wire harness.
	Blower is defective.	Replace blower.
	Control box is defective.	Replace control box.
Exhaust blower fails to	Blower not plugged in.	Check that blower is plugged into wire harness.
start or does not shut off.	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 fire pot, 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 premium.
	Fire pot clean-out plate not completely closed.	Check that fire pot 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 adjustment control rod located inside hopper.
	Sawdust buildup in hopper.	Clean hopper, see page 13.
	Feed motor is reversing.	Check for good connections between feed motor and wire harness.
	Defective thermocouple.	
	Defective control box.	Replace thermocouple. Replace control box. See page 15 for detailed instructions for "High Ash Fuel
	Fire pot more than 1/2 full.	Content Management"
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.
J	Defective control box	Replace control box.
Hopper lid not closed all the way	Switch or magnet is out of adjustment (auger will not function)	Close the lid. If that doesn't work, adjust or replace the switch or magnet

5

## **Service Parts Replacement**

## A. Blower Replacement

## 1. Combustion (Exhaust) Blower Replacement

**PART NUMBER: 812-3381** 

#### b. Prep appliance from the blower removal:

- iii. Disconnect the appliance from the electrical outlet.
- iv. Remove panel set and disconnect flue.
- v. Pull appliance out onto the hearth.
- vi. Remove the right-side access panel, then slide out the right-side panel of the appliance, held in place with 2 screws, to expose the exhaust blower.

#### b. Remove existing blower (Figure 26.1):

- i. Use the 11/32" wrench or nut driver to loosen and remove the (6) nuts holding the motor mount plate to the blower housing on your appliance.
- ii. Remove the washer from beneath the terminal ring on the grounding wire.
- iii. Pull motor/mounting plate from blower housing.
- iv. Scrape off the old gasket material from blower housing.

#### c. Install new blower:

- i. The blower and blower housing is shipped as a appliance in this kit. It is necessary to separate them at this point.
- ii. Use 11/32" wrench or nut driver to loosen and remove the (6) nuts holding the motor mount plate to the blower housing.
- iii. Remove the washer from beneath the terminal ring on the grounding wire.
- iv. Pull motor/mounting plate from blower housing and discard or set aside the blower housing.
- v. Carefully remove gasket from new housing and set onto the appliance blower housing.

## d. Reinstall blower to blower housing:

- Install blower on housing ensuring that wiring exits facing the 8 o'clock position for the CB1200 appliance and 12 o'clock for the 1200-I insert. Place washer and then grounding wire on nearest mounting plate stud.
- ii. Use nuts removed in step A1 to secure blower to housing.
- iii. Reconnect wiring. Use Jumper wire if necessary. Reconnect power supply.

#### d. Re-install appliance:

- i. Reassemble right side panel to appliance with 2 screws previously removed.
- ii. Push appliance back into the hearth.
- iii. Reconnect flue and re-install panel set; plug in appliance to electrical outlet.

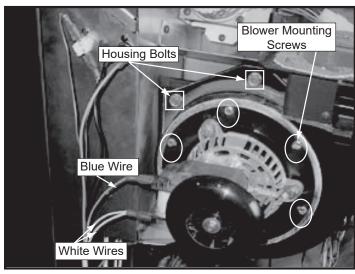


Figure 26.1

#### 2. Convection Blower Replacement

**PART NUMBER: 812-4900** 

- a. The blower is located at the bottom rear of the insert. If an outside air kit is also installed, you will first need to remove the outside air flange by removing the 2 screws using a Phillips head screwdriver. You do not need to remove the flex pipe from the flange.
- b. Remove panel set and disconnect flue.
- c. Pull appliance out onto the hearth.
- d. Remove left access panel and then slide out left side panel of appliance to expose the convection blower. Loosen wing nut on the vacuum switch and remove vacuum switch to allow room to remove the blower.
- e. Disconnect the wires from the blower. The wires coming from the wiring harness are purple & white and the wires from the blower are black.
- f. The blower is held in place with a magnet. A wing nut and plate are installed at the factory for shipping purposes only. This can be removed once the appliance is installed. Lift up blower from the magnet and remove.
- g. Re-install in reverse order.



## **CAUTION**

#### Shock Risk.



- 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 appliance.

## **B. Baffle Replacement**

#### PART NUMBERS: **LEFT BAFFLE:** 812-4200 **RIGHT BAFFLE: 812-4210**

- 1. Use proper shut down procedures to shut down the appliance and let it completely cool down.
- Open right side panel and then open the door.
- The 2 baffles are located at the top inside of firebox.
- 4. Place your hand on the baffle and slide it up and the bottom edge will fall down and then you can lift the baffle out. Repeat for the other side.

#### a. Remove Baffle to Access Heat Exchanger Tubes and Firebox Exhaust Exits

- Open the upper right side panel door and then open the glass door.
- The 2 baffles are located at the top inside of firebox.
- iii. Place your hand on the baffle and slide it up and the bottom edge will fall down and then you can lift the baffle out. Repeat for the other side.
- iv. Re-install in reverse order.

## C. Igniter Replacement

#### PART NUMBER: SRV7000-462

- Be sure the appliance is allowed to cool, has been unplugged and the exhaust blower is off. Remove the ash pan.
- 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 (Figure 27.1).
- 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, fire pot cleaning rod, etc.
- Re-install the ash pan and re-connect the power.

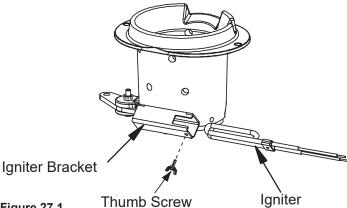


Figure 27.1



## **CAUTION**

#### Shock Risk.



- 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 appliance.

## D. Glass Replacement



#### WARNING



- Glass is 5mm thick high temperature heat-resistant ceramic glass.
- DO NOT REPLACE with any other material.
- Alternate material may shatter and cause

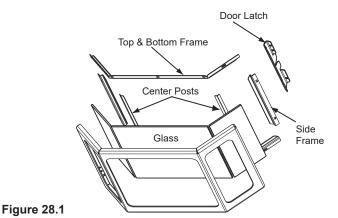
#### **PART NUMBERS: LEFT OR RIGHT SIDE GLASS: 510-5400 CENTER BAFFLE:** 510-5410

- Remove door from appliance and place face down on a protected surface to avoid scratching the door.
- Remove all door rope.

NOTE: DO NOT LET Air Wash Spacers fall down from top frame when removing and replacing center glass.

#### **Replacing Center Glass**

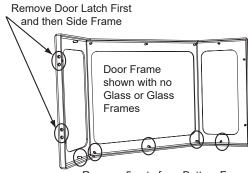
- Be sure the appliance is allowed to cool, has been unplugged and the exhaust blower is off.
- Using a nut driver remove the (5) bottom nuts and remove the bottom glass frame (Figure 28.1).
- d. Slightly bend up and out of the way the 2 center posts and slide the glass out the bottom.
- Slide new glass in, reposition the 2 center posts and re-install bottom glass frame.
- Re-rope the door.



#### 2. Replacing Side Glass

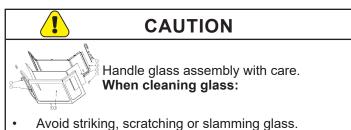
NOTE: When removing the side glass with the door latch, you must remove the door latch first before removing the side frame. Use a powered Phillips head screw driver to remove the 4 screws.

- Be sure the appliance is allowed to cool, has been unplugged and the exhaust blower is off.
- Remove side glass frame.
- 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.
- Re-install the door latch, if applicable, and re-rope the door.



Remove 5 nuts from Bottom Frame

Figure 28.2



- 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.



## **Reference Materials**

## A. Component Function



#### 1. Control Box

- 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 fire pot. and will turn red when it reaches 600°F (315°C).T
- c. here 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 fire pot.

#### 5. Fire por

The fire pot is made of high quality ductile iron and has a cleaning pull-out rod. The floor of the fire pot 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. Fuse

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, it is always AS YOU FACE THE FRONT OF THE APPLIANCE.

#### 7. Heat Exchangers

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 fire pot. 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 fire pot 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 appliance 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 appliance 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 30.1 below

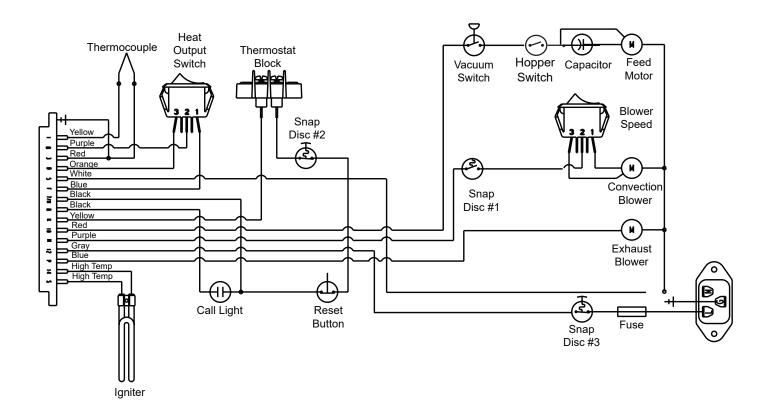


Figure 30.1

## **B.** Component Locations

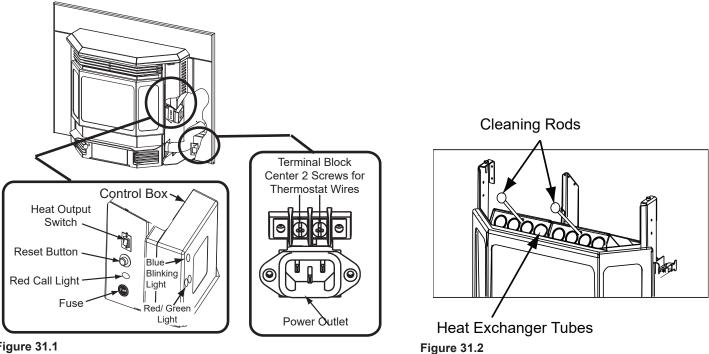


Figure 31.1

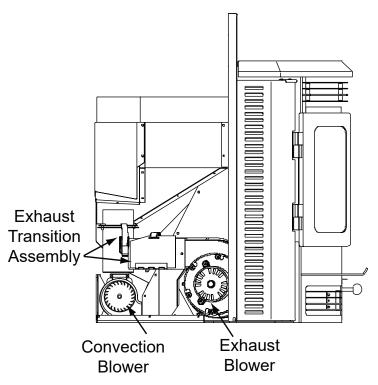


Figure 31.3

## C. Service & Maintenance List

Date of Service	Performed By	Description of Service

Date of Service	Performed By	Description of Service

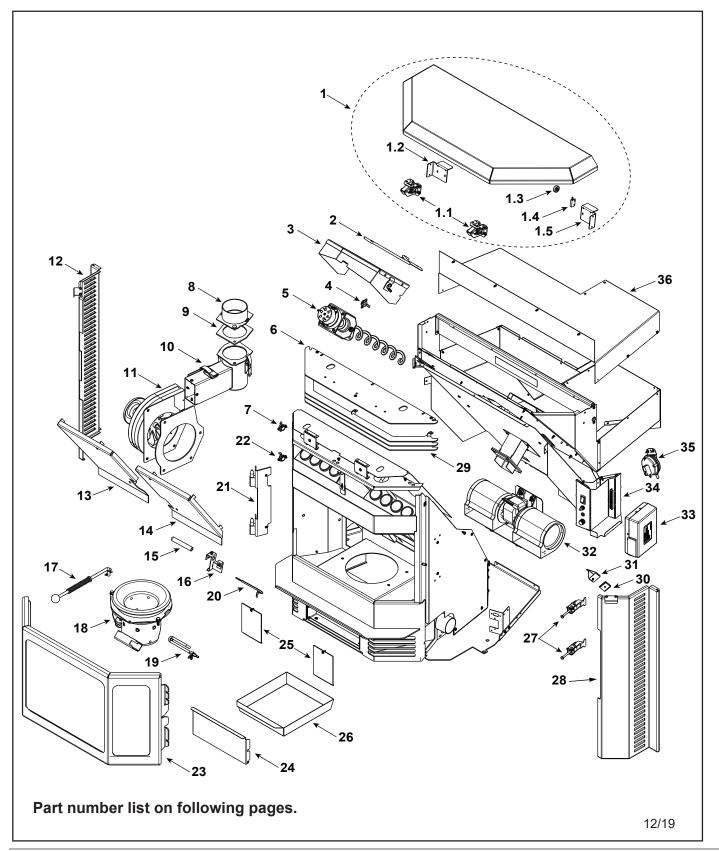
## D. Exploded Drawing



**CB1200I-C** 

Beginning Manufacturing Date: May 2019 Ending Manufacturing Date: Active

## **Classic Bay Pellet Insert**



Beginning Manufacturing Date: May 2019 Ending Manufacturing Date: Active

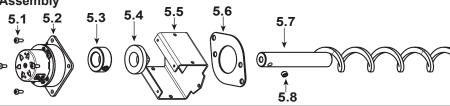
IMPORTANT: THIS IS DATED INFORMATION. Parts must be ordered from a dealer or distributor. **Hearth and Home Technologies does not sell directly to consumers**. Provide model number and serial number when requesting service parts from your dealer or distributor.



Stocked at Depot

				-
ITEM	DESCRIPTION	COMMENTS	PART NUMBER	
1	Hopper Lid Assembly		SRV7027-040	
1.1	Hinge, Hopper Lid		812-4220	
1.2	Mount, Hopper Lid Support, Right		410-7410	
1.3	Magnet Round		SRV7000-140	Υ
1.4	Hopper Switch		SRV7000-375	Υ
1.5	Lid Support Mount w/Sensor		7027-278	
	Screw Flat Head Philips, 8-32 x 1/2	Pkg of 12	220-0490/12	Υ
	Screw, 8-32 x 1/4	Pkg of 40	225-0240/40	Υ
	Wire Harness Hopper Switch		SRV414-1220	Υ
	Mount, Hopper Lid Support, Top		410-7560	
2	Feed Adjustment Assembly		510-5450	
	Thumbscrew, 1/4-20 X 3/4	Pkg of 10	844-5070	
3	Cover, Feed Motor, Top		410-7920	
4	Snap Disc, Manual Reset (#3)		SRV230-1290	Υ

## **#5 Feed Motor Assembly**



5	Feed Motor Assembly		812-3690	Υ
5.1	Screw, 8-32 X 3/8 PH	Pkg of 40	225-0500/40	Υ
5.2	Feed Motor		812-4421	Υ
5.3	Collar, Set, 7/8		229-0520	
5.4	Feed Bearing		SRV7000-598	Υ
5.5	Mount, Feed Motor		410-7172	
5.6	Gasket, Feed Motor		SRV240-0731	Υ
5.7	Feed Spring Assembly		SRV7027-024	Υ
5.8	Screw, Set 5/16-18 X 1/4	Pkg of 25	225-0550/25	Υ
6	Extension, Heat Shield, Top		410-7860	Υ
	Heat Exchange Repair Kit		SRV7014-172	
7	Snap Disc, 200 Open/40 D, <b>(#2)</b>		SRV230-0900	Υ
8	Exhaust Adapter Assembly		510-5330	
9	Gasket, Flue Adapter		SRV240-0850	Υ
10	Exhaust Transition Assembly		510-5340	
	Gasket, Cleanout Door		SRV240-0840	
	Latch, Draw	Qty 2 req	229-0230	
	Screw, Pan Head Philips 8-32 x 3/8	Pkg of 40	225-0500/40	Υ



**Beginning Manufacturing Date: May 2019 Ending Manufacturing Date: Active** 

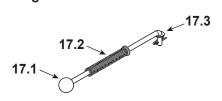
IMPORTANT: THIS IS DATED INFORMATION. Parts must be ordered from a dealer or distributor. Hearth and Home Technologies does not sell directly to consumers. Provide model number and serial number when requesting service parts from your dealer or distributor.



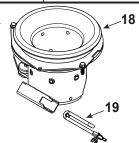
## **Stocked** at Depot

ITEM	DESCRIPTION	COMMENTS	PART NUMBER	
11	Combustion Exhaust Blower,80 CFM		812-3381	Υ
		Motor & Housing	812-4710	Υ
	Cookst Fuhaust Combustion Plants hatus a	Motor & Housing Pkg of 12	SRV240-0980M	Υ
	Gasket, Exhaust Combustion Blower, between	Housing & Stove	SRV240-0812	Υ
		Motor & Housing Pkg of 12	SRV240-0812/12	Υ
	Blower, Combustion		7000-537	Υ
	Silicone, Hi-Temp, 11 oz.		812-2020	Υ
12	Curtain, Side, Left		812-4310	
	Screw, 8-32 X 3/8 PH	Pkg of 40	225-0500/40	Υ
	Latch, Magnet		SRV229-0631	Υ
13	Baffle, Left		812-4200	Υ
14	Baffle, Right		812-4210	Υ
15	Thormogouple Cover	Pkg of 1	812-1322	Υ
15	Thermocouple Cover	Pkg of 10	812-4920	Υ
16	Thermocouple Bracket W/Set Screw		812-3171	Υ

## #17 Rod/Linkage EZ Clean



#18 Firepot Assembly & **#19 Heating Element** 



17	Rod/Linkage Ez Clean		812-4140	
17.1	Knob, Ash Dump Control Rod		832-3020	
17.2	Spring, Firepot		200-2050	
47.0	Mark	Pkg of 10	7000-579/10	Υ
17.3	Washer, 5/16	Pkg of 50	3-30-0205-50	Υ
18	Firepot Assembly		812-3351	Υ
	Nut Lock 4/4 20	Pkg of 25	226-0090/25	Υ
	Nut, Lock 1/4-20	Pkg of 50	3-30-8021-50	Υ
	Bushing, Firepot		410-8320	Υ
	Floor, Firepot		414-0290	Υ
	Gasket, Firepot		SRV510-0530	Υ
10	Heating Flament Assembly 40" /Lean Ignitar)	Pkg of 1	SRV7000-462	Υ
19	Heating Element Assembly 18" (Loop Igniter)	Pkg of 10	SRV7000-462/10	Υ
	Wing Thumb Screw 8-32 X 1/2	Pkg of 24	7000-223/24	Υ
	Igniter Wire (5Ft) & (4) Ceramic Nuts		812-4520	Υ
20	Thermocouple		812-0210	Υ



**Beginning Manufacturing Date: May 2019 Ending Manufacturing Date: Active** 

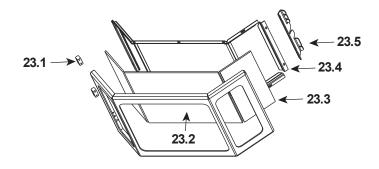
IMPORTANT: THIS IS DATED INFORMATION. Parts must be ordered from a dealer or distributor. Hearth and Home Technologies does not sell directly to consumers. Provide model number and serial number when requesting service parts from your dealer or distributor.

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**Stocked** at Depot

ITEM	DESCRIPTION	COMMENTS	PART NUMBER	
21	Mount, Door Hinge		410-7290	
	Hinge, Door, Male		SRV450-2810	
	Screw, Pan Head Philips 8-32 X 3/8	Pkg of 40	21799A/40	Υ
22	Snap Disc (#1) Convection Blower		SRV7000-829	Υ

## #23 Door Assembly



23	Door Assembly	Black	DR-CB12-MBK-B	
23.1	Hinge, Female		SRV450-2910	
23.2	Glass Assembly, Center, 13-7/8 in. W x 11 in. H		SRV510-5400	Υ
23.3	Glass Assembly, Side, 5-1/8 in. W x 11 in. H	Qty: 1	SRV510-5410	Υ
23.4	Glass Retainer Assembly		SRV510-5460	Υ
	Nut, Keps Lock, 8-32	Pkg of 40	226-0060/40	Υ
23.5	Bracket, Door Latch		SRV410-4912	
	Door Rope, 7/8", Field Cut to Size	8 Ft	842-2350	Υ
	Gasket, Glass, Field Cut to Size	10 Ft	833-0660	
	Silicone, Hi Temp, 11oz		812-2020	
24	Panel, Front Access	Ash Pan Door	812-4290	
25	Door, Cleanout, Exhaust Plenum		410-7910	
26	Ash Pan		812-4130	
27	Latch, Draw		229-0640	Υ
28	Curtain, Side, Right		812-4320	
	Screw, 8-32 X 3/8 PH	Pkg of 40	225-0500/40	Υ
	Latch, Magnet		SRV229-0631	
29	Grille, Louver	Black	LVGRL-CB12-BK-B	
	Grille, Bar, Bottom		410-8330	
	Screw, 8-32 X 3/8 PH	Pkg of 40	225-0500/40	Υ
30	Latch, Magnet	Qty 2 req	SRV229-0631	
31	Bracket, Magnet Mount	Qty 2 req	410-7760	

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Stocked at Depot

	umber and serial number when requesting service parts from yo			at Depot
ITEM	DESCRIPTION	COMMENTS	PART NUMBER	
32	Convection Blower, 150 CFM		812-4900	Y
	Nut, Keps Lock, 8-32	Pkg of 40	226-0060/40	Υ
	Screw, Pan Head Philips 8-32 X 3/4	Pkg of 24	229-1100/24	Υ
	Blower, Convection		7000-537	Υ
33	Control Board 3 Speed		SRV7000-704	Υ
	Fuse, 8 Amp, Control Box	Pkg of 10	812-3780/10	Υ
34	Wire Harness		SRV7000-155	Υ
	Fuse, 7 Amp, Junction Box	Pkg of 10	812-0380/10	Y
	Reset Button Assembly		SRV7000-040	
	Block, Thermostat Term Dv		SRV230-0690	
	Igniter Extension		7000-218	
	Call Light Bulb		812-0760	Υ
	Call Light Lens Cover		812-0750	Υ
	Call Light, Fluorescent		SRV7000-122	
	Fuse Holder		812-0401	Υ
35	Vacuum Switch		SRV7000-531	Υ
	Hose, Vacuum, 5/32 ld, Field Cut to Size	3 Ft	SRV240-0450	Υ
	Hose, Barb Assembly		SRV229-0920	
36	Hopper Top		410-7730	
	Component Pack		SRV7127-057	
	Cleanout Tool		414-1140	Υ
	Harness, Thermostat Wire		SRV230-0810	
	Paint Touch-Up		3-42-19905	
	Power Cord		812-1180	Y



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Stocked at Depot

	umber and serial number when requesting service parts from your	dealer of distributor.		at Depot
ITEM	DESCRIPTION	COMMENTS	PART NUMBER	
	OPTIONAL ACCES	SORIES		
	Adjustable Hearth Support - 12 in. X 50 in., 2-10 in. H		ADJSPT-12	
	Damper, 3 Inch - Tall Vertical Installs Only		PEL-DAMP3	Υ
	Damper, 4 Inch - Tall Vertical Installs Only		PEL-DAMP4	
	Floor Protector		811-0730	
	Log Set Assembly		811-0592	
	Hose, Alum Flex, 2 Inch X 3 Ft	3 Ft	SRV200-0860	
	Panel Set, Large, W/Nickel Trim	33 in x 50 in.	SP-CB12l3350-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/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		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		7019-026	
	Handle, Pullrod		PULLROD-HNDL	
	Shroud, Rear		811-0680	
	Smart-Batt II		841-0970	
	Smart-Stat II		841-0960	
	Thermostat, Programmable		PROG-STAT	
	Top Vent Adapter, 3"		811-0660	
	Top Vent Adapter, 4"		811-0670	
	Top Vent Kit, Rear Shroud		811-0650	
	Vent Adapter, 3-4"		811-0720	



## **CONTACT INFORMATION**

Hearth & Home Technologies 352 Mountain House Road Halifax, PA 17032 Division of HNI INDUSTRIES

Please contact your Quadra-Fire dealer with any questions or concerns. For the number of your nearest Quadra-Fire dealer log onto www.quadrafire.com

## CAUTION



DO NOT DISCARD THIS MANUAL Important operating and •

maintenance instructions included.

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

## We recommend that you record the following pertinent information for your heating appliance.

Serial Number:	Location on appliance:
Dealership purchased from:	Dealer phone:_1()
Notes:	

This product may be covered by one or more of the following patents: (United States) 5341794, 5263471, 6688302, 7216645, 7047962 or other U.S. and foreign patents pending.

