Owner's Manual

Care and Operation

Pour demander un exemplaire en français de ce Manuel du propriétaire, visitez www.quadra-fire.com/translations.

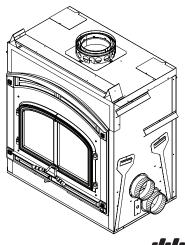
INSTALLER: Leave this manual with party responsible for use and operation.

OWNER: Retain this manual for future reference.

NOTICE: DO NOT discard this manual!

QUADRA-FIRE Model(s):

7100FP-BK-B 7100FP-GD-B 7100FP-NL-B





EPA CERTIFIED WOODBURNING FIREPLACE

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





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

- DO NOT store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- DO NOT overfire. Overfiring will void your warranty.
- Comply with all minimum clearances to combustibles as specified. Failure to comply may cause house fire.

A WARNING



HOT SURFACES!

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

Hot glass will cause burns.

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

High temperatures may ignite clothing or other flammable materials.

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



A WARNING

Fire Risk.

For use with solid wood fuel only. Other fuels may overfire and generate poisonous gases (i.e. carbon monoxide).

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 fireplace or to property.

Table of Contents

1	Welcome		4 Maintenance and Service	
	A. Congratulations	3	A. Maintenance Tasks-Homeowners	17
	B. LIMITED LIFETIME WARRANTY	4	Chimney Inspection	17
2	Product Specific Information		Creosote (Chimney) Cleaning	18
_	A. Fireplace Certification	7	Care and Cleaning of Plated Surfaces	19
	B. BTU & Efficiency Specifications	7	4. Glass Doors	19
	C. Glass Specifications	7	5. Glass Cleaning	19
_	·	•	6. Door Gasket	19
3	Important Safety and Operating Information	_	7. Ash Removal	19
	A. Fireplace Safety	8	8. Baffle and Blanket	19
	1. Clear Space	8	9. Firebrick	19
	2. Firebrick	9	B. Replacement Maintenance	20
	3. Baffle and Blanket	9	Glass Replacement	20
	4. Over-Firing Your Fireplace	9	Tighten or Adjust Door Latch	20
	5. Chimney Fire	9	3 Firebrick Replacement	21
	B. General Operating Parts	10	 Baffle Removal and Installation 	22
	Automatic Combustion Control (ACC)	11	Fan Replacement	22
	2. ACC Override	11	Timer Assembly Replacement	23
	Auxiliary Convection Air System	12	Timer Removal & Replacement	25
	4. Outside Air	12	5 Troubleshooting	
	5. Glass Doors	13	A. FAQs	27
	6. Convection Fan Operation	13	B. Troubleshooting Table	28
	C. Fuel	13	·	_`
	1. Hardwood vs. Softwood	13	6 Reference Materials	0.0
	2. Moisture content	14	A. Service Parts	30
	3. Seasoning	14	B. Contact Information	37
	4. Storing Wood	14		
	5. Burning Process	15		
	6. Dirty Glass	15		
	7. Creosote Formation	15		
	8. Opacity	15		
	D. First Fire	15		
	E. Lighting Instructions	16		
	F. Heat Management	16		

Welcome

Read this manual before installing or operating this fireplace. Please retain this owner's manual for future references.

A. Congratulations

Congratulations on selecting a Quadra-Fire wood burning fireplace. The Quadra-Fire fireplace you have selected is designed to provide the utmost in safety, reliability, and efficiency.

As the owner of a new fireplace, you'll want to read and carefully follow all of the instructions contained in this Owner's Manual. Pay special attention to all Cautions and Warnings.

This Owner's Manual should be retained for future reference. We suggest that you keep it with your other important documents and product manuals.

Your new Quadra-Fire wood burning fireplace will give you years of durable use and trouble-free enjoyment. Welcome to the Quadra-Fire family of fireplace products!

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

Local Dealer Information			
DEALER: Fill in your name, address, phone and email information here and fireplace information below.	Dealer Name: Address: Phone: Email:		
Fireplace Information: Brand:	Model Name:		
Serial Number:			

Listing Label Information/Location

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

The table and O-7 L Profit and Links by Company U.S. DUDRA-FIRE Moc OMM-Tate Laboratories, Inc. Report: 661-841-2 T.S. T. S. T	0FP 009	
LISTED FIREPLACE, SOLID FUEL TYPE, ALSO SUITABLE FOR MANUFACTURED HOME INSTALLATION. (UM) 84 HUD. "For Use with Solid Wood Fuel Only." Install and use only in accordance with manufacturer's installation, venting and operating instructions. Any area incorporating warm or cold air ducts shall be enclosed in accordance with the manufacturer's installation instructions. Contact Your Local Building Or Fire Officials Or Authority Having Jurisdiction About Restrictions, Installation Inspection And Permits Required In Your Area. WARNING - For Manufactured Homes: Do not install in a sleeping room. An outside combustion air	Minimum Clearances To Sembustible Material Chimney sections at any level require a 2 inches (51mm) minimum air space clearance between the framing and chimney section. WITHIN ENCLOSURE AREA Appliance to backwall Appliance to sidewall Duct boots to framing 0 "(0mm)	Serial Number
inlet must be provided and unrestricted while unit is in use. The structural integrity of the manufactured home floor, ceiting and walls must be maintained. The fireplace needs to be properly grounded to the frame of the manufactured home. Components required for installation: HTI SLSeries Pipe or Dura Plus System, Termination Cap, Hearth Extension and required accessory Chimney Air KII Part CAK4A. Do not connect this unit to a chimney serving another appliance. DAMGER: Risk of electrical shock. Disconnect power supply before servicing. Electrical Rating: 115 VAC <3.0 AMPS 60 Hz Do not use grate or elevate fire. Build wood fire directly on firebrick.	Top standoffs to header 0" (0mm") EXPOSED SURFACES Faceplate to sidewall Remote outlet air grills to ceiling 12" (305mm) MANTEL Mantel from base of fireplace Maximum mantel depth 12" (305mm)	➤ Model Number
Do not overfire. If heater or chimney connector glows, you are overfiring. Do not use a freelpace insert or other products not specified for use with his product. WARNING - THIS FIREPLACE HAS NOT BEEN TESTED WITH AN UNVENTED GAS LOG SET OR ANY LOG SET. TO REDUCE RISK OF FIRE OR INJURY, DO NOT INSTALL AN UNVENTED GAS LOG SET OR ANY LOG SET INTO FIREPLACE. Must provide a source of air to prevent air starvation from combustion which could result of high levels of carbon monoxide. Replace glass only with Smm ceramic available from your dealer. Optional Fire Steen, Part SCR-433, may be used ONLY in USA	FLOOR PROTECTION Combustible flooring 20 inches (508mm) in front of and 8 inches (203mm) to either side of the fuel opening must be insulated with non-combustible floor protection with a minimum thickness of 1 inch (25mm) and ("k" value = 0.43, minimum R value = 2.06). In Canada: The hearth extension must be installed according to the installation instructions.	
This wood heater needs periodic inspection and repair for proper operation. Consult owner's manuwood heater in a manner inconsistent with the operating instructions in the owner's manual. Mag by: MEARTHGHOME 1015	Apr May June July Aug Sept Oct. Nov. Dec.	

B. LIMITED LIFETIME WARRANTY

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 Period HHT Manufa			nufactured Appliances and Venting				
Parts	Labor	Gas	Pellet	Wood	Electric	Venting	Components Covered
1 Year		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
		Х					Ignition Modules
3 years			х				Firepots, burnpots, mechanical feeders/auger assemblies
5 years	1 year	х					Vent Free burners, Vent Free ceramic fiber logs, Aluminized Burners
	ĺ		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

B. LIMITED LIFETIME WARRANTY (continued)

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.

2 4021-645J • 08-03-17

B. LIMITED LIFETIME WARRANTY (continued)

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.

Listing and Code Approvals

A. Appliance Certification

Model:	7100FP	
Laboratory:	OMNI Test Laboratories, Inc.	
Report No:	061-S-41-2	
Type: Wood Fireplace		
Standard:	UL 127 - 2011 and ULC S610-M87	
	(A1998) and (UM) 84-HUD, Manu-	
	factured Home Approved.	

B. BTU & Efficiency Specifications

EPA Certification #:	571 4-1-03
EPA Certified Emissions:	3.1 grams per hour
*LHV Tested Efficiency:	77.6 %
**HHV Tested Efficiency:	71.8%
***EPA BTU Output:	12,100 to 58,800 / hr.
****Peak BTU/Hour Output:	92,400
Vent Size:	8 inches
Firebox Size:	3.4 cubic feet
Recommended Log Length:	24 inches
Fuel	Seasoned Cord Wood

^{* *} Weighted average LHV (Low Heating Value) efficiency using Douglas Fir dimensional lumber and data collected during EPA emission test. LHV assumes the moisture is already in a vapor state so there is no loss in energy to vaporize.

****Weighted average HHV (High Heating Value) efficiency using Douglas Fir dimensional lumber and data collected during EPA emission test. HHV includes the energy required to vaporize the water in the fuel.

***A range of BTU outputs based on EPA Default Efficiency and the burn rates from the low and high EPA tests, using Douglas Fir dimensional lumber.

****A peak BTU out of the appliance calculated using the maximum first hour burn rate from the High EPA Test and the BTU content of cordwood (8600) times the efficiency.

The Quadra-Fire 7100FP meets the 2015 US Enviornmental Protection Agency's crib wood emission limits for wood heaters sold after May 15, 2015.

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

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 with #8 copper ground wire.
- Outside Air Kit must be installed in a mobile home installation.

D. Glass Specifications

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



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.
- Do NOT Overfire If appliance or chimney connector glows, you are overfiring.

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.

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



Important Safety and Operating Information

A. Fireplace Safety

Most problems are caused by improper installation and operation of the fireplace. To provide reasonable fire safety, the following should be given serious consideration:

- The fire should be supervised whenever the fireplace is in use.
- An annual inspection should be performed on the fireplace system.
- Install at least one smoke detector on each floor of your home to ensure your safety.
- Install a CO detector in the room with the fireplace.
- Install a conveniently located Class A fire extinguisher near the fireplace.
- Devise a practiced evacuation plan, consisting of at least two escape routes.
- Devise a plan to deal with a chimney fire:
 - Close all openings into the fireplace.
 - Evacuate.
 - Notify the fire department.

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

DO NOT:

- · operate damaged fireplace
- modify fireplace
- overfire

8

- install any gas log set
- install any component not approved by Hearth & Home Technologies
- · install parts or components not Listed or approved
- operate the fireplace without fully assembling all components

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

WARNING: This product and the fuels used to operate this product (wood and wood pellets), 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.

1. Clear Space

Combustible materials must not be stored on the hearth extension. Room furnishings such as drapes, curtains, chairs or other combustibles must be at least 4 ft (1219 mm) from the open front of the fireplace.

Combustible materials are materials made of or surfaced with any of the following materials:

- Wood Compressed paper
- Plant fibersPlywood/OSBDrywall
- Any material that can ignite and burn, flame proofed or not, plastered or un-plastered.

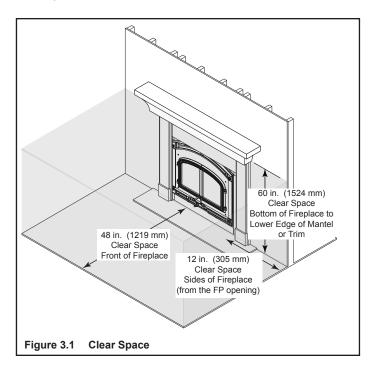
Non-combustible materials are materials which will not ignite and burn, composed of any combination of the following:

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

WARNING! Risk of Fire! Keep combustible materials, gasoline and other flammable vapors and liquids clear of the fireplace.

DO NOT:

- store flammable materials close to the fireplace
- use gasoline, lantern fuel, kerosene, charcoal lighter fluid or similar liquids to start or "freshen up" a fire in this fireplace.



2. Firebrick

Your fireplace is lined with high quality firebrick, which has exceptional insulating properties.

Do not operate the fireplace without bricks. Make sure bricks are installed as shown in Section 5.

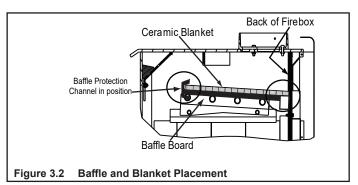
Do not use a grate; simply build a fire on the firebox floor.

3. Baffle and Blanket

Ensure correct baffle and baffle protection channel placement; replace baffle components if damaged or missing. (Please refer to Section 5.)

NOTICE: Firebox damage due to improper baffle placement is not covered by warranty. Operate the wood burning fireplace with the baffle in the correct position only. Not doing so could result in:

- reduced efficiency
- overheating the chimney
- overheating the rear of the firebox
- poor performance



The baffle board must be in contact with the manifold at the back of the firebox. The ceramic blanket should lay on top of the baffle board and manifold.

The baffle protection channel should be in position and cover the front of the blanket and baffle board.

4. Over-Firing Your Fireplace

DO NOT OVERFIRE THIS FIREPLACE UNIT

Attempts to achieve heat output rates that exceed design specifications can result in permanent damage to the fireplace.

To prevent over-firing your fireplace. DO NOT:

- use flammable liquids
- overload with wood
- burn trash or large amounts of scrap lumber
- · permit too much air to the fire

Symptoms of over-firing may include one or more of the following:

- · chimney connector or fireplace glowing
- roaring, rumbling noises
- · loud cracking or banging sounds
- · metal warping
- chimney fire

What to do if your fireplace is over-firing:

- Immediately <u>close the door and air controls</u> to reduce air supply to the fire.
- If you suspect a chimney fire, call the fire department and evacuate your house.
- Contact your local chimney professional and have your fireplace and chimney inspected for any damage.
- Do not use your fireplace until the chimney professional informs you it is safe to do so.
- Hearth & Home Technologies WILL NOT warranty fireplaces that exhibit evidence of over-firing. Evidence of over-firing includes, but is not limited to:
 - warped air tube
 - deteriorated refractory brick
 - deteriorated baffle and other interior components

5. Chimney Fire

In the event of a chimney fire

- Have the chimney and adjacent structure inspected by qualified professionals. Hearth & Home Technologies recommends that NFI or CSIA certified professionals, or technicians under the direction of certified professionals, conduct a minimum of an NFPA 211 Level 2 inspection of the chimney.
- Replace components of the chimney and fireplace as specified by the professionals.
- Ensure all joints are properly engaged and the chimney is properly secured.

WARNING! Risk of Fire! A chimney fire can permanently damage your chimney system. Failure to replace damaged components and make proper repairs can cause a structure fire.

A WARNING



HOT SURFACES!

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

Hot glass will cause burns.

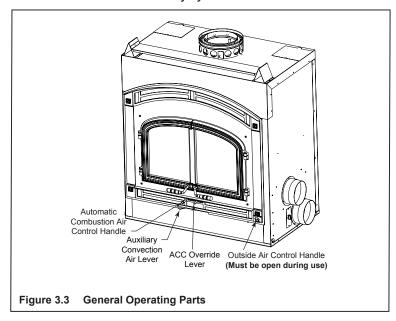
- · DO NOT touch glass until it is cooled
- NEVER allow children to touch glass
- · Keep children away
- · CAREFULLY SUPERVISE children in same room as fireplace.
- Alert children and adults to hazards of high temperatures.

High temperatures may ignite clothing or other flammable materials.

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

B. General Operating Parts

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



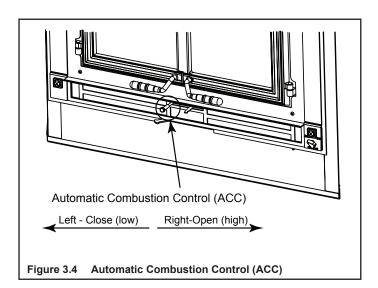
1. Automatic Combustion Control (ACC)

The automatic combustion control system allows you to set the fireplace to high (slide the combustion air control all the way to the right), start the fire, and then move the combustion air control to the desired burn level. The fire will automatically go to that level once it is fully established. This allows for less interaction with the fire by the homeowner and more efficient use of fuel while maintaining the desired heat output.

After the fireplace becomes hot, you may prefer to not activate the ACC when reloading fuel. If you do not slide the combustion air control all the way to the right, the ACC will not be activated.

NOTICE: To establish your settings, always begin with the air control all the way to the left to STOP and then move it to the right for your desired setting.

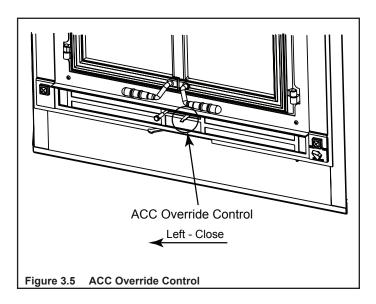
IMPORTANT! As you move the combustion air control to the RIGHT, you will feel resistance about three-fourths of the way. You must move past that resistance approximately 3/4 in. (19mm) to fully engage the automatic combustion control (ACC) system.



2. ACC Override

The lever located to the right of the combustion air control is the ACC OVERRIDE and may be used to override the setting of the automatic combustion air control. If the ACC has been activated and burn rate needs to be slowed, move the lever to the LEFT and position combustion air control at the preferred setting. To close the air supply for an over-fire situatution or to slow the burn rate down immediately, slide the lever to the LEFT and also slide the combustion air control all the way to the left.

NOTICE: If reloading a bright, hot coal bed for longer (low) burn time, setting the ACC may not be required. Burn dry, well seasoned wood.

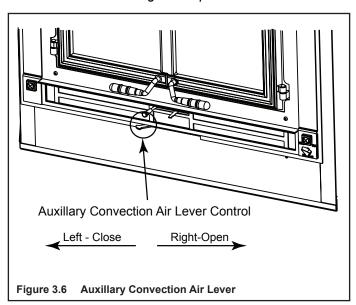


3. Auxiliary Convection Air System

If the auxiliary duct has been installed and the lever lock was removed, moving the lever to the RIGHT will bring air into the bottom of the fireplace from the duct and put it into the room as heated air.

Moving the lever all the way to the LEFT will cause the room air to be pulled into the bottom grille of the fireplace and re-circulated into the room as heated air.

NOTICE: If you live in an area with very cold winter months, you will want to use room air as opposed to bringing in extremely cold air from outside of the home. This will eliminate creating a draft of cold outside air infiltrating your home. Definitely keep the lever to the LEFT when not using the fireplace.



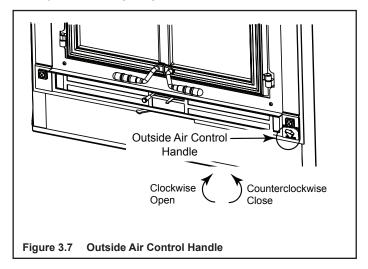
4. Outside Air

NOTICE: Use of outside air is required.

A source of air (oxygen) is required in order for combustion to take place.

Turning the outside air handle clockwise opens the outside air inlet; turning counterclockwise will close it. This may be closed only when the fireplace is not in use to prevent cold air infiltration.

CAUTION! Outside air control handle may be warm. Adjust before lighting fire.



5. Glass Doors

This fireplace has been tested and is intended for use with doors as supplied with this fireplace.

WARNING! Risk of Fire and Smoke! Fireplace should be operated only with doors fully open or doors fully closed. If doors are left partly open, gas and flame may be drawn out of the fireplace opening.

A firescreen (MESH-433) must be used to control sparks if the homeowner choses to operate the fire-place with the doors open.

WARNING! Fire Risk!

- Use firescreen when burning fireplace with doors open.
- Do not use firescreen or glass doors to hold burning material in fireplace.

Firescreen controls sparks.

Glass may break or burning material may roll out.

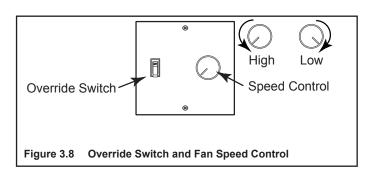
Only the screen specifically tested and listed for use with this fireplace model should be used.

WARNING! RISK OF Fire! Do NOT install and or use any component not approved by Hearth & Home Technologies.

Always wear gloves when installing or removing the screen as the screen may become extremely hot while in use.

6. Convection Fan Operation

The fireplace is equipped with a temperature-senitive snap disc that will turn the convection fan on and off automatically, depending on the temperature of the fireplace.



An override switch and fan speed control have been installed on the wall in close proximity to the fireplace.

The speed of the fan can be regulated by the speed control knob.

If the fan is not coming on at the desired time, flip the override switch to manual and operate the fan as described below:

Initial (cold) Startup

Leave fan off until your fireplace is hot and a good coal bed is established, approximately 30 minutes after fuel is lit.

High Burn Setting

The fan may be left on throughout the burn.

· Medium or Medium High Burn Setting

The fan should be left off until a good burn is established, then turned on medium or high rate.

Low Burn Setting

The fan tends to cool off the fireplace. Leave fan off until the burn is well established; then, if you wish, turn the fan on at a low rate.

C. Fuel

WARNING! For use with solid wood fuel only.

Other fuels may overfire and generate poisonous gases (i.e. carbon monoxide).

This fireplace is designed to burn natural wood only. Higher efficiencies and lower emissions generally result when burning air dried seasoned hardwoods, as compared to softwoods or to green or freshly cut hardwoods. DO NOT BURN:

- Garbage
- Lawn clippings or yard waste
- Materials containing rubber, including tires
- · Materials containing plastic
- Waste petroleum products, paints or paint thinners, or asphalt products
- Materials containing asbestos
- · Construction or demolition debris
- · Railroad ties or pressure-treated wood
- · Manure or animal remains
- Salt water driftwood or other previously salt water saturated materials
- Unseasoned wood
- Paper products, cardboard, plywood, or particleboard.
 The prohibition against burning these materials does
 not prohibit the use of fire starters made from paper,
 cardboard, saw dust, wax and similar substances
 for the purpose of starting a fire in an affected wood
 heater.

Burning these materials may result in release of toxic fumes or render the heater ineffective and cause smoke.

1. Hardwood vs. Softwood

Your fireplace's performance depends on the quality of the firewood you use. One species of wood varies very little to the other in terms of energy content. All seasoned wood contains about 8,000 BTU's per pound. Hardwoods have a greater density than softwoods; a piece of hardwood will contain about 60% more BTU's than an equal size piece of softwood. A cord of seasoned oak (hardwood) would contain about 60% more potential energy than a cord of seasoned pine (softwood).

Most softwoods are coniferous. These are trees with needle-like leaves that stay green all year and carry their seeds exposed in a cone. Examples of coniferous trees are Douglas fir, pine, spruce and cedar. Softwoods, being more porous, require less time to dry, burn faster and are easier to ignite than hardwoods. Hardwoods are deciduous trees, broadleaf trees that lose their leaves in the fall. Their seeds are usually found within a protective pod or enclosure. Some examples of deciduous trees are oak, maple, apple, and birch. However, it should be noted that there are some deciduous trees that are definitely not considered hardwoods such as poplar, aspen and alder. Hardwoods require more time to season, burn slower and are usually harder to ignite than softwoods. Obviously, you will use the type of wood that is most readily available in your area. However, if at all possible the best arrangement is to have a mix of softwood and hardwood. This way you can use the softwood for starting the fire, giving off quick heat to bring the fireplace up to operating temperature. Add the hardwood for slow, even heat and longer burn time.

WARNING! Risk of Fire!

- DO NOT burn wet or green wood.
- Wet, unseasoned wood can cause accumulation of creosote.

Soft woods	Hard woods	
Douglas Fir Div	• Oak	
PineSpruce	MapleApple	
Cedar	Apple Birch	
Poplar	2	
Aspen		
Alder		

2. Moisture content

The majority of the problems fireplace owners experience are caused by trying to burn wet, unseasoned wood. Freshly cut wood can be as much water as it is wood, having a moisture content of around 50%. Imagine a wooden bucket that weighs about 8 pounds. Fill it with a gallon of water, put it in the firebox and try to burn it. This sounds ridiculous but that is exactly what you are doing if you burn unseasoned wood. Dead wood lying on the forest floor should be considered wet, and requires full seasoning time. Standing dead wood can be considered to be about two-thirds seasoned, if cut at the dry time of the year.

Burning wet, unseasoned wood will produce less heat output because it requires energy in the form of heat to evaporate the water trapped inside. This is wasted energy that should be used for heating your home. This moisture evaporates in the form of steam which has a cooling effect in your firebox and chimney system. When combined with tar and other organic vapors from burning wood it will form creosote which condenses in the relatively cool firebox and chimney.

Even dry wood contains at least 15% moisture by weight, and should be burned hot enough to keep the chimney hot for as long as it takes to dry the wood out - about one hour. To tell if wood is dry enough to burn, check the ends of the logs. If there are cracks radiating in all directions from the center, it is dry. If your wood sizzles in the fire, even though the surface is dry, it may not be fully cured.

3. Seasoning

Seasoned firewood is nothing more than wood that is cut to size, split and air dried to a moisture content of around 20%. The time it takes to season wood varies from around nine months for soft woods to as long as eighteen months for hardwoods. The key to seasoning wood is to be sure it has been split, exposing the wet interior and increasing the surface area of each piece. A tree that was cut down a year ago and not split is likely to have almost as high a moisture content now as it did when it was cut.

To season wood:

- · Cut logs to size
- Split to 6 in. (152 mm) or less
- Air dry to a moisture content of around 20%
 - Soft wood about nine months
 - Hard wood about eighteen months

NOTICE: Seasoning time may vary depending on drying conditions.

4. Storing Wood

Splitting wood before it is stored reduces drying time. The following guideline will ensure properly seasoned wood:

- Stack the wood to allow air to circulate freely around and through the woodpile.
- Elevate the woodpile off the ground to allow air circulation underneath.
- The smaller the pieces, the faster the drying process.
 Any piece over 6 in. (152 mm) in diameter should be split.
- Wood should be stacked so that both ends of each piece are exposed to air, since more drying occurs through the cut ends than the sides. This is true even with wood that has been split.
- Store wood under cover, such as in a shed, or covered with a tarp, plastic, tar paper, sheets of scrap plywood, etc., as uncovered wood can absorb water from rain or snow, delaying the seasoning process. Avoid covering the sides and ends completely. Doing so may trap moisture from the ground and impede air circulation.

5. Burning Process

Fire requires fuel, air and heat. If heat is robbed from the fireplace during the drying stage, the new load of wood has reduced the chances for a good clean burn. Aways burn dry, seasoned firewood.

Kindling or 1st stage:

In this stage, the wood is heated to a temperature high enough to evaporate the moisture which is present in all wood. The wood will reach the boiling point of water (212°F) and will not get any hotter until the water is evaporated. This process takes heat from coals and tends to cool the fireplace.

2nd stage:

The secondary stage is when the wood gives off flammable gases which burn above the fuel with bright flames. It is very important that the flames be maintained and not allowed to go out. This will ensure the cleanest possible fire. You should close down the air to control the point where you can still maintain some flame. If the flames tend to go out, more air is necessary.

Final stage:

The final stage of burning is the charcoal stage. This occurs when the flammable gases have been mostly burned and only charcoal remains. This is a naturally clean portion of the burn. The coals burn with hot blue flames.

It is very important to reload your fireplace while enough lively hot coals remain in order to rekindle the next load of wood.

6. Dirty Glass

A portion of the combustion air entering the firebox is deflected down over the inside of the door glass. This air flow "washes" the glass, helping to keep smoke from adhering to its surface. When operated at a low burn rate, less air will be flowing over the glass and the smoky, relatively cool condition of a low fire will cause the glass to become coated. Operating the fireplace with the burn rate air control and start-up air control all the way open for 15-20 minutes should remove the built up coating.

7. Creosote Formation

When wood is burned slowly, it produces tar and other organic vapors which combine with expelled moisture to form creosote. The creosote vapors condense in the relatively cool chimney flue of a newly-started or a slow-burning fire. As a result, creosote residue accumulates on the flue lining.

When ignited, creosote creates an extremely hot fire which may damage the chimney or even destroy the house.

The chimney shall be inspected at least annually before lighting, or once every two months during heating season.

When creosote has accumulated it shall be removed to reduce the risk of a chimney fire.

8. Opacity

Opacity indicates how cleanly your fireplace is burning. Opacity is measured in percent; 100% opacity is when an object is totally obscured by the smoke column from a chimney, and 0% opacity means that no smoke column can be seen. Periodically check the opacity and burn your fireplace as nearly smoke-free as possible (goal of 0% opacity).

D. First Fire

Before lighting your first fire in the fireplace, make certain that:

- the baffle and ceramic blanket are correctly positioned, resting against the rear support
- · firebrick are in place
- · all labels have been removed
- · all plated surfaces have been cleaned

NOTICE: Oils can cause permanent markings on plating if not removed before the first fire.

NOTICE: The first three or four fires should be of moderate size to allow the oils and binders to be burned from the fireplace and the refractory and paint to cure. You may notice an industrial odor the first few fires. This is considered normal.

E. Lighting Instructions

To start a fire, light easily-ignitable tinder or paper, which will ignite the fast burning kindling, which in turn will ignite the slow-burning firewood.

- Open outside air by turning the knob clockwise.
- Fully open the combustion air control by moving the Automatic Combustion Air Control (ACC) handle completely to the right.
- Place several wads of crushed paper on the firebox floor.
 Heating the flue with a burning, rolled up newspaper before adding kindling keeps smoke spillage to a minimum.
- · Lay small dry sticks of kindling on top of the paper.
- Make sure that no matches or other combustibles are in the immediate area of the fireplace. Be sure the room is adequately ventilated and the flue unobstructed.
- Light the paper in the fireplace. NEVER light or rekindle fireplace with kerosene, gasoline, or charcoal lighter fluid; the results can be fatal.
- Once the kindling is burning quickly, add several full-length logs 3 in. (76 mm) or 4 in. (102 mm) in diameter.
 Be careful not to smother the fire. Stack the pieces of wood carefully; near enough to keep each other hot, but far enough away from each other to allow adequate air flow between them.
- Adjust the combustion air control; the more you close down the ACC handle, (sliding left) the lower and slower the fire will eventually burn. The more you open the air control, (sliding right) the more heat will be produced and the faster the wood will burn.
- Refueling: Move the ACC to the right, allow an influx of air
 to liven the coalbed. The door should be opened slowly to
 prevent ash and smoke spillage into the room. Break up
 any large chunks and distribute the coals so new wood
 is laid evenly on hot coals. Add desired amount of fuel,
 close the door.

NOTICE: Fireplace should be run full open for a minimum of 30 minutes a day during heating season to keep air passages clean.

WARNING! Risk of Fire! Keep combustible materials, gasoline and other flammable vapors and liquids clear of the fireplace.

DO NOT:

- store flammable materials close to the fireplace
- use gasoline, lantern fuel, kerosene, charcoal lighter fluid or similar liquids to start or "freshen up" a fire in this fireplace.

Keep all flammable liquids well away from the fireplace while it is in use. Combustible materials may ignite.

F. Heat Management

For maximum operating efficiency with the lowest emissions, follow these operating procedures:

- Regardless of desired heat output, when loading the fireplace, burn your fireplace with the combustion air control wide open (fully to the right) for a minimum of 5 to 15 minutes (refer to Figure 4.1).
- Regulate burn rate (heat output) by using the combustion air control.
- Heat output settings: Follow the burn rate instructions listed Table 4.1.

Table 4.1

Burn Rate	BTU / Hr	*Combustion Air Control
Low	Below 10,000	Slide LEFT to Stop
Medium	10,000 - 15,000	Stop to 1/8 in1/2 in. open
Medium High	15,000 - 30,000	Stop to 1/2 in 1-1/2 in. open
High	Maximum Heat	All the way to RIGHT

^{*}These are approximate settings, and will vary with type of wood or chimney draft.

This fireplace 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 fireplace in a manner inconsistent with operating instructions in this manual.



Maintenance and Service

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

WARNING! Hot Surfaces!

Glass and other surfaces are hot during operation AND cool down. **DO NOT** clean fireplace until it is cooled.

Task	Frequency	To be completed by
1. Chimney Inspection	As needed	Homeowner or Chimney Sweep
2. Chimney Cleaning	As needed	Chimney Sweep
3. Plated Surfaces Cleaning	As needed	Homeowner
4. Glass Doors	Seasonally	
5. Glass Cleaning	As needed	
6. Door Gasket	Seasonally	
7. Ash Removal	As needed	
8. Baffle/Blanket/Channel Protector	Seasonally	
9. Firebrick	Seasonally	

A. Maintenance Tasks-Homeowners

Installation and repair should be done by a qualified service technician only. The fireplace should be inspected before use and at least annually by a professional service person.

The following tasks may be performed annually by the homeowner. If you are uncomfortable performing any of the listed tasks, please call your dealer for a service appointment.

1. Chimney Inspection

Frequency: As necessary; at least annually before lighting fireplace, or once every two months during heating season.

By: Homeowner/Chimney Sweep

- Confirm that termination cap remains clear and unobstructed.
- Inspect for blockages such as bird nests, leaves, etc.
- · Inspect for corrosion or separation.
- Inspect for creosote and remove as needed, at least every two months during the heating season.
- Inspect the system at the fireplace connection and at the chimney top.

In the event of a chimney fire, Hearth & Home Technologies recommends replacement of the chimney and inspection of the adjacent structure to the provisions of NFPA Level III inspection criteria.

WARNING! Risk of Asphyxiation and Fire! Annual inspection by qualified technician recommended.

Check:

- · condition of doors, surrounds and fronts
- condition of glass and glass assembly
- obstructions of combustion and ventilation air
- · obstructions of termination cap

Clean:

- glass
- · air passageways, grilles

2. Creosote (Chimney) Cleaning

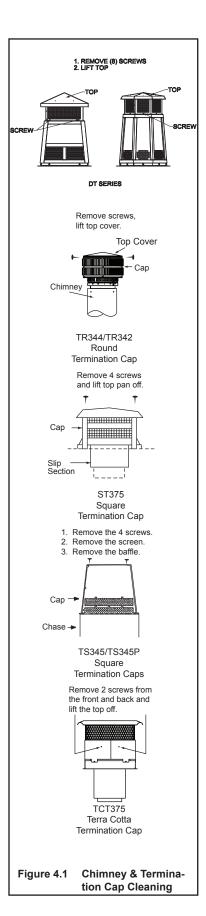
Frequency: As needed; at least annually before lighting, or once every two months during heating season. When creosote has accumulated it shall be removed to reduce the risk of a chimney fire.

By: Chimney Sweep

Tools Needed: Brush, Phillips screwdriver

- When wood is burned slowly, it produces tar and other organic vapors, which combine with expelled moisture to form creosote. The creosote vapors condense in the relatively cool chimney flue of a slow-burning fire. As a result, creosote residue accumulates on the flue lining. When ignited, this creosote makes an extremely hot fire.
- Remove all ash from the firebox and extinguish all hot embers before disposal. Allow the fireplace to cool completely.
- Remove baffle and ceramic blanket from fireplace before cleaning chimney (refer to Section 5.C.3 Baffle Removal and Installation).
- Close the door tightly.
- Remove the top of the termination cap as shown in Figure 4.1 to clean the cap and chimney.
- The creosote or soot should be removed from the chimney with a brush specifically designed for the size of chimney in use.
- Reinstall termination cap.
- · Clean out fallen debris from the firebox.
- · Replace baffle and ceramic blanket.

WARNING! Risk of Fire! Ignited creosote is extremely HOT. Prevent creosote buildup.



3. Care and Cleaning of Plated Surfaces

Frequency: Initially and as needed

By: Homeowner

Tools Needed: Vinegar or glass cleaner, soft towel

CAUTION! Do not use a polish with abrasives. It will scratch plated surfaces.

- Use a glass cleaner or vinegar and towel to remove the oils.
- Oils can cause permanent markings on plating if not removed.
- · After plating is cured, oils will not affect the finish.

4. Glass Doors

Frequency: As necessary

By: Homeowner

- Inspect glass panels for cracks. Replace if this condition is present.
- Inspect glass gasket. Confirm glass does not move around in glass frame.

5. Glass Cleaning

Frequency: As necessary

By: Homeowner

Tools Needed: Vinegar or glass cleaner, soft towel

 Clean glass with a non-abrasive glass cleaner. Use a damp cloth dipped in wood ashes or a commercially available oven cleaner. Remove any oven cleaner residue with a glass cleaner or soap and water.

6. Door Gasket

Frequency: Seasonally **By:** Homeowner

- Open door, place half a dollar bill inside and close the door.
- Attempt to pull the bill out.
- If the bill gives good resistance or is not removable, the gasket is adjusted correctly. If the bill is easily removed, the gasket needs adjustment or replacement to create an even seal all around door.

It may be necessary to adjust or tighten the door latch.

7. Ash Removal

Frequency: As necessary

By: Homeowner

Tools Needed: Covered metal container, metal

shovel, fireplace broom

WARNING! Risk of Fire! DO NOT remove ashes until the fire is out and the fireplace is cold.

- Ashes should be placed in metal container with tight fitting lid.
- The closed container of ashes should be placed on a noncombustible 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 thoroughly cooled.

8. Baffle and Blanket

Frequency: As necessary

By: Homeowner Tools Needed:

- Ensure correct baffle and baffle protection channel placement; replace baffle components if damaged or missing.
- The ceramic blanket and baffle board MUST be in contact with the back of the firebox and even with each other in the front. The baffle protection channel MUST be in position. Refer to Section 3.A.3.

9. Firebrick

Frequency:

By:

Tools Needed:

 Inspect condition of brick. Replace if crumbly or otherwise deteriorated, or if cracks exceed 1/4 in. (6 mm).

B. Replacement Maintenance

1. Glass Replacement

- Ensure that the fire is out and the fireplace is cool to the touch.
- · Protect a table or counter top with padding or towels.
- Remove door with broken glass from the fireplace by lifting door up and off of the hinges.
- Lay door face down on table or counter making sure handle and handle attachment knob hang over the edge of the table top so door lays flat on the soft surface.
- Remove screws from the top and bottom glass frames (five on each door) using a #2 Phillips Head screwdriver. Set frames aside and retain screws.
 HINT: Soak screws in penetrating oil for easy removal.
- · Remove the glass and discard.
- Position the new glass with edges evenly overlapping the opening in the front door.
- · Replace the glass frames.
- Start screws to secure glass frames to door, keeping them loose for adjusting the glass. Then continue to tighten each screw alternately, a few turns at a time, until the glass panel is tightened snugly. DO NOT OVERTIGHTEN OR CROSS THREAD SCREWS.
- Replace the door on the fireplace.
- After the first burn, recheck the tightness of the screws.

NOTICE: Remove all labels from glass before lighting the first fire in your fireplace.

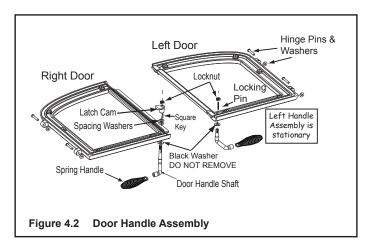
2. Tighten or Adjust Door Latch

Remove the lock nut holding latch cam and four spacing washers on the right hand door as shown in Figure 5.2. Move 1-3 spacing washers to the opposite side of cam. Reinstall the cam and tighten locknut. At least one spacing washer and the black washer must be left in place.

OR

Replace the gasket material. Wear or damage to the gasket material can cause air leakage into the firebox resulting in overfiring and loss of efficiency.

A replacement gasket is available from your dealer.



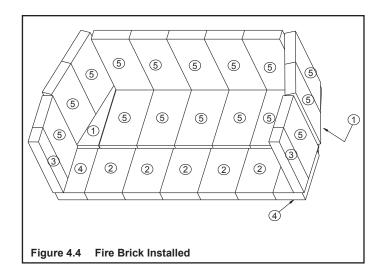
3 Firebrick Replacement

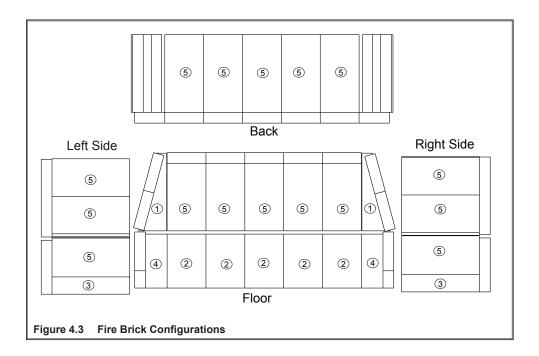
The firebox of your fireplace is lined with high quality firebrick, which has exceptional insulating properties. There is no need to use a grate; simply build a fire on the firebox floor. Do not operate the fireplace without bricks.

IMPORTANT: The bricks are very similar in size. Be certain you have the proper brick in the correct location. Measure the brick size for accuracy.

After the coals are completely cooled, remove all old firebrick and ash from unit and vacuum out firebox.

- Remove new brick set from box and lay out to diagram shown in Figure 4.3.
- · Lay bottom bricks in unit.
- Install rear bricks on the top of the bottom bricks.
 Slide top of bricks under clip on back of firebox wall and push bottom of brick back.
- Install side bricks. Slide top of brick under clips on side of firebox and push the bottom of the brick until it is flush with the side of the unit.





# Brick Size	Qty. In Set	
1 9" x 3-1/4" x 1-1/4" Angled (see drawing)	2	2-3/4
2 6-1/4" x 4-1/2" x 1-1/4"	5	
3 9" x 2" x 1-1/4"	2	3-1/4
4 6-1/4" x 3-1/2" x 1-1/4"	2	
5 9" x 4.5" x 1-1/4"	16	<u> </u>

4. Baffle Removal and Installation

WARNING! Hot Surfaces!

Glass and other surfaces are hot during operation AND cool down. **DO NOT** clean fireplace until it is cooled.

- Remove all ash from firebox and place into a metal container.
- Remove the baffle protection channel by turning it down and pulling it out of the firebox. See Figure 4.5.

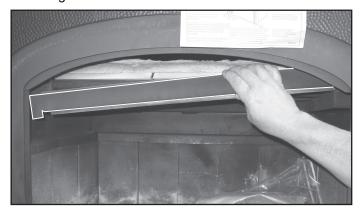


Figure 4.5 Removing Baffle Protection Channel

- · Remove ceramic blanket from above the baffle.
- With a 3/16 in. Allen wrench, remove the front manifold tube retainer bolt on the air channel under the end of the front tube. See Figure 4.6.

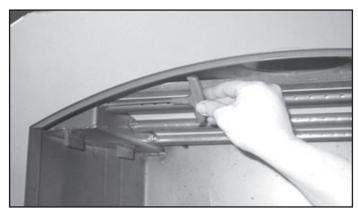


Figure 4.6 Removing Manifold Tube

NOTICE: Soak the bolt with penetrating oil for at least 15 minutes before trying to remove it.

- To remove manifold tube, slide the tube to one side until one end is out of its hole. Then, while lifting that end of the fiber board baffle, pull tube up over the air channel and out of hole at the other end. It is only necessary to remove the first tube in order to remove the baffle.
- Slide fiber board baffle forward to front of fireplace and straight out through door. See Figure 4.7.
- To install the fiber board baffle, repeat the 2nd through 4th steps in reverse. Be sure the fiber board baffle and ceramic blanket are pushed back fully and the blanket is down and flat.

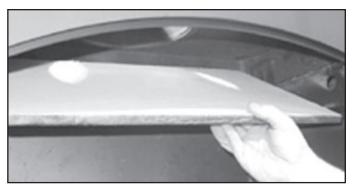


Figure 4.7 Removing Baffle (shown without ceramic blanket)

5. Fan Replacement

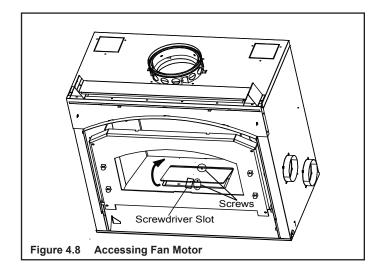
CAUTION! Risk of Shock! Disconnect power by turning off circuit breaker before servicing.

CAUTION! Risk of Shock!

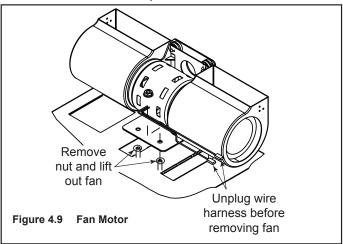
- **DO NOT** remove grounding prong from plug.
- Plug directly into properly grounded three-prong receptacle.
- Route cord away from fireplace.
- DO NOT route cord under or in front of fireplace.

The Fireplace comes equipped with two fans, installed at the factory with electric access on the right side of fireplace (as you face it).

- Fan Replacement Instructions
 - Remove both doors, outside air knob, black knob and fascia. Place fascia on protected surface.
 - Remove the six center bricks from the bottom of the fireplace.
 - Remove the two screws from the access panel in the firebox floor. See Figure 4.8. Pry up panel with screwdriver and remove panel.



- · Removing the fan
 - Unplug the wire harness.
 - Lift fan from locating pins and remove (Figure 4.9). Repeat for second fan if necessary.
 - Connect new fan wires to wire harness.
 - Before installing the fan, make sure the grommets are tightly in place. Insert the right fan and place over the two locating pins. Repeat for other fan. Figure 4.10
 - Re-install bottom panel or firebox access panel in reverse order as described above.
 - Replace the brick that was removed.
 - Re-install the fascia and both knobs.
 - Re-install both doors and hinge pins.
 - Reconnect the power.



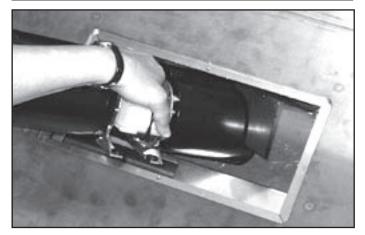


Figure 4.10 Installing Fans

6. Timer Assembly Replacement

CAUTION! Risk of Shock! Disconnect power by turning off circuit breaker BEFORE servicing.

- Remove both doors, outside air knobs, fascia, and the center hearth brick.
- Remove two Phillips head screws and pry open access door in the bottom of the fireplace with a flat head screwdriver. See Figure 4.11.

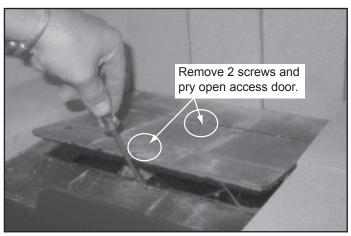
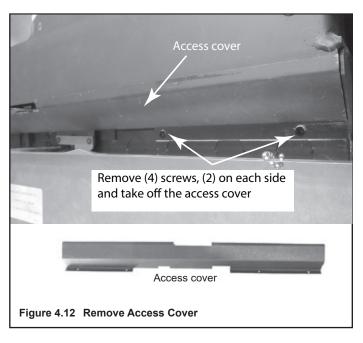
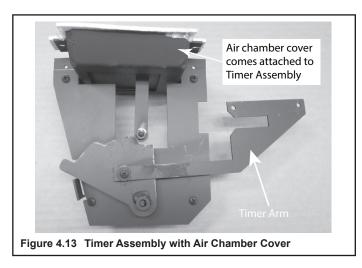


Figure 4.11 Open Access Door

 Remove the screws and take off access cover shown in Figure 4.12.



NOTICE: The timer assembly included in this kit comes with the air chamber cover attached (Figure 4.13).



 Disconnect air chamber cover from timer assembly before installing in the fireplace. Set screws aside for later use. See Figure 4.14.

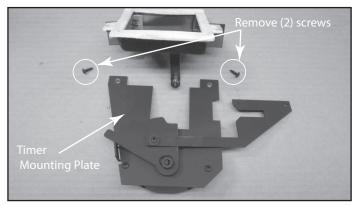


Figure 4.14 Disconnect Air Chamber Cover

 Remove the (2) screws holding the timer arm. See Figure 4.15

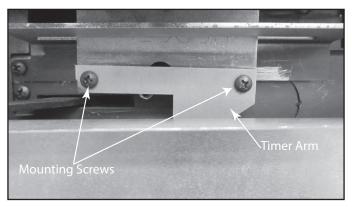


Figure 4.15 Remove Mounting Screws

 Remove two screws from timer mounting plate (Figure 4.16). Place your hand into the access door (Figure 4.17) in the floor of the fireplace. Let the timer assembly and plate drop down and rotate it up through the access door. You will be looking at the back side of the assembly. See Figure 4.18.

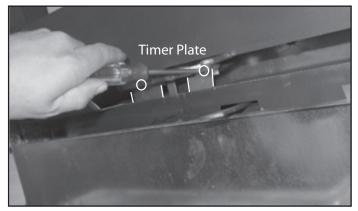


Figure 4.16 Remove Screws from Timer Mounting Plate

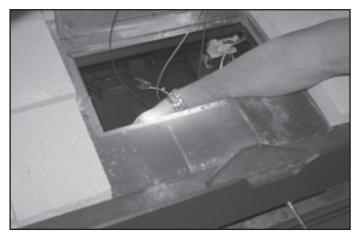


Figure 4.17 Hand in Access Door



Figure 4.18 Removing Timer Assembly

- If only installing a new timer, skip to 4.B.7 Timer Removal & Replacement, install timer, return to here.
- Insert the new timer assembly into the access door with the back side towards you. See Figure 4.18.
- Using a 7/16 wrench, remove the (2) 1/4-20 bolts holding the old air chamber cover on and discard it.
 See Figure 4.18. Install the new cover where the old one was.

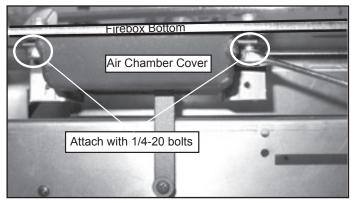


Figure 4.19 Install Control Box

 Next re-install the timer assembly through the firebox access door, re-attach the timer assembly to the air chamber cover using a Phillips head screw driver. See Figure 4.20.

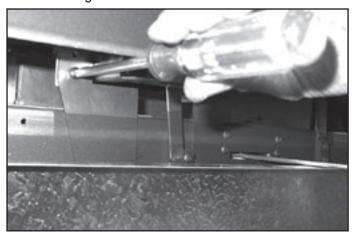


Figure 4.20 Timer Assembly Installed

• Re-attach the timer arm. See Figure 4.21.

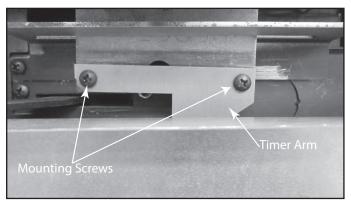
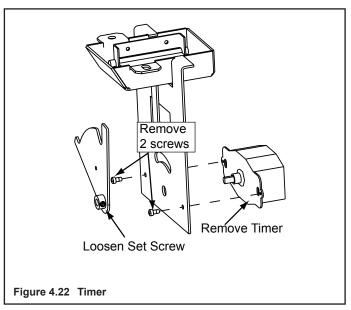


Figure 4.21 Re-attach Timer Arm

7. Timer Removal & Replacement

 Loosen set screw on timer, remove two screws and remove timer. See Figure 4.22.



 Install new timer using same two screws. It is very important that the D cut side of the timer shaft is facing the opposite side of the linkage timer arm. See Figure 4.23.

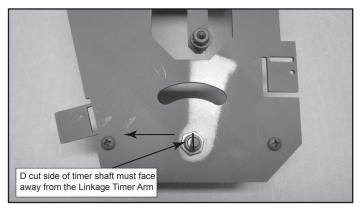


Figure 4.23 D Cut on Shaft

• Place linkage control arm over timer shaft and tighten set screw, Figure 4.24.

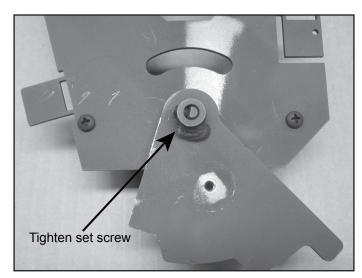
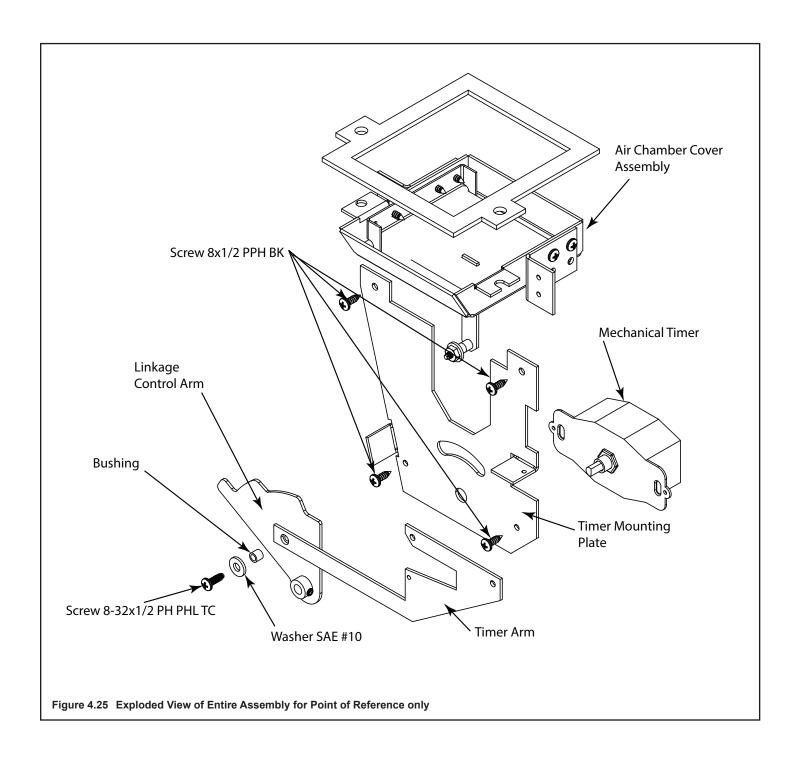


Figure 4.24 Linkage Control Arm Installed

- Rotate linkage control arm into final position and re-attach to mounting plate. Note that the D cut is now facing the linkage timer arm. Re-attach the linkage timer arm, Figure 4.24.
- Retun to Timer Assembly Replacement, Section 4 B 6
- See Figure 4.25 for exploded view of Timer Assembly.



5 Troubleshooting

A. FAQs

Hearth & Home Technologies assumes no responsibility for the improper performance of the fireplace system caused by inadequate draft due to environmental conditions, down drafts, tight sealing construction of the structure, or mechanical exhausting devices which will create a negative air pressure within the structure where the fireplace is located.

If smoke spillage occurs from a fireplace opening when the door is open, there is either a leakage in the flue, a blockage in the flue, or some condition is affecting draft Understanding and differentiating the conditions which can cause each of these kinds of spillage problems is essential to their solution.

Flue Leakage

Check for improperly connected flue joints or a damaged flue joint in the chimney system. Such leakage would reduce draft (air would be drawn in through the leaks rather than through the fireplace). The result might be difficult start-up and smoky fires that might spill if other adverse draft conditions accompany this problem.

Flue Blockage

The damper should be open.

Check for objects that may have fallen down the chimney.

Flue draft is measured as negative pressure in the chimney. The amount of negative pressure determines how strong the draft is. The draft is important because it draws the combustion air into the fireplace and pulls the smoke out of the chimney.

There are three basic criteria essential in establishing and maintaining flue draft:

- availability of combustion air
- heat generated from the fire
- · diameter and height of the flue system

These three factors work together as a system to create the flue draft. Increasing or decreasing any one of them will affect the other two and thus change the amount of draft in the entire system.

If the fire is hard to start and smoke spills out of the fireplace, or you find it difficult to establish and maintain a moderately high burn rate, then the flue draft is too low and corrective measures must be taken.

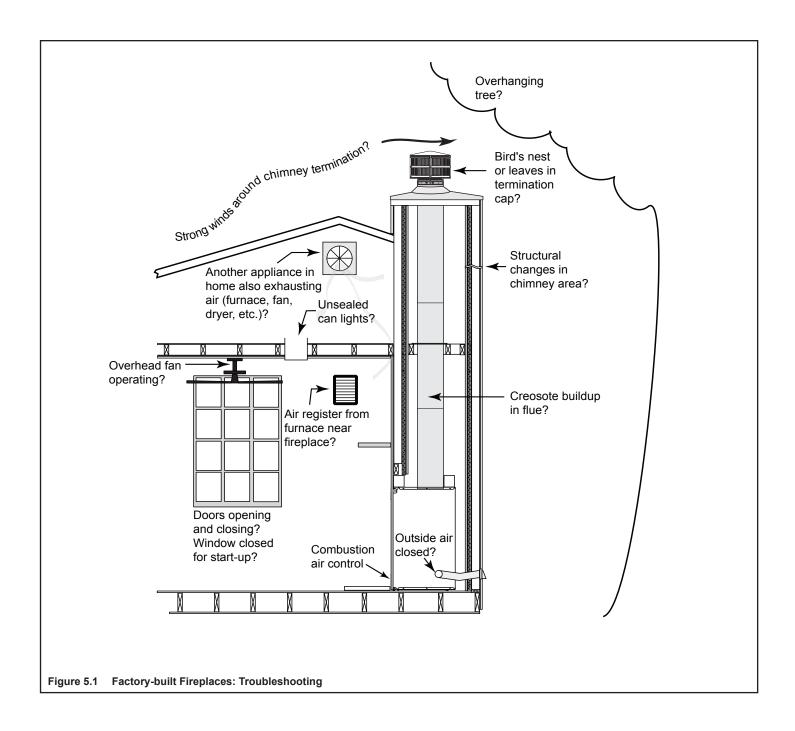
Be sure you have air available for combustion and that your firewood is dry and well seasoned. Build your fires properly and according to the instructions given in operating instructions, "Starting a Fire". Be sure your flue system is installed correctly and that it is the proper diameter and height. Check for the following:

- · All chimney sections are properly installed.
- The chimney is clean and free of creosote or soot buildup.
- Make sure overhanging trees and branches are cut back within ten feet of the top of the chimney and the chimney is free of debris from animals.
- Ensure the chimney cap is clean and free of any buildup of soot or creosote if cap is equipped with a spark arrestor screen.
- Be sure the ceramic blanket (above the baffle) and the baffle are in their proper positions
- · The wood being used in dry and well seasoned.

If you still suspect you have a low draft problem it may be necessary to increase the volume of air in your flue system. Since the diameter of your flue system is matched with the size of the flue collar and should not be changed, then the height of the system must be increased. Add chimney sections one at a time until the draft improves.

In some cases, regardless of what you do, it can still be difficult to establish the proper flue draft. This is especially evident when using an exterior factory-built chimney or exterior masonry chimney. Try holding a burning rolled up newspaper as close to the flue outlet as possible for a few minutes, then light the paper under the kindling. The heat generated from the burning rolled up newspaper should help get the draft established.

Still other factors can affect how well your flue system performs. Neighboring structures, high winds, tall trees, even hillsides can affect air currents around the chimney. Well designed chimney caps are available that can help. Your fireplace dealer is the local expert in your area. He can usually make suggestions or discover problems that can be easily corrected allowing your fireplace to operate correctly as it has been designed, providing safe and economical heat for your home.



B. Troubleshooting Table

Fire is difficult to start	Refer to section 4.C. Lighting Instructions
ine is difficult to start	
	Open air controls Tablish doft, Hold a lighted and lad an accuracy.
	 Establish draft: Hold a lighted, rolled up newspaper under the front of the baffle
	 Place DRY kindling over wadded up newspaper; leave air spaces between pieces of wood
	 Light the paper, allow kindling to ignite and progress to a lively burn
	Slowly add progressively larger pieces of dry wood until the fire is well established
Smoke in the house at startup	Check and clean chimney if needed
	Open air controls
	Establish draft
	Do not use exhaust fans during startup
	Do not close doors until the fire is well-established
Smoke in the house during operation	Check and clean chimney if needed
	Check door rope for seal
	Open air controls (ACC)
Smoke in the house during refueling	Open air controls (ACC) to establish a lively coal bed
	Open doors SLOWLY
	Add progressively larger wood to establish a hot fire
Fuel burns too fast	ACC not working properly
	 Wood too dry, mix in less seasoned wood after the fire is established
	User larger diameter wood
	 Check baffle/ceramic blanket for propler placement (Section 3.A.3)
	 Close down ACC (refer to section 4.D. Heat Management)
Glass doesn't stay clean	Establish a good, hot fire
	Use well-seasoned wood
Not enough or no heat	Move combustion air control to fully open position
	Fan is not on
	Insufficient fuel for fire/heat required
Fan doesn't come on	No power
	 Fireplace is not hot enough to activate snap disc
	Snap disc may be faulty

► A. Service Parts

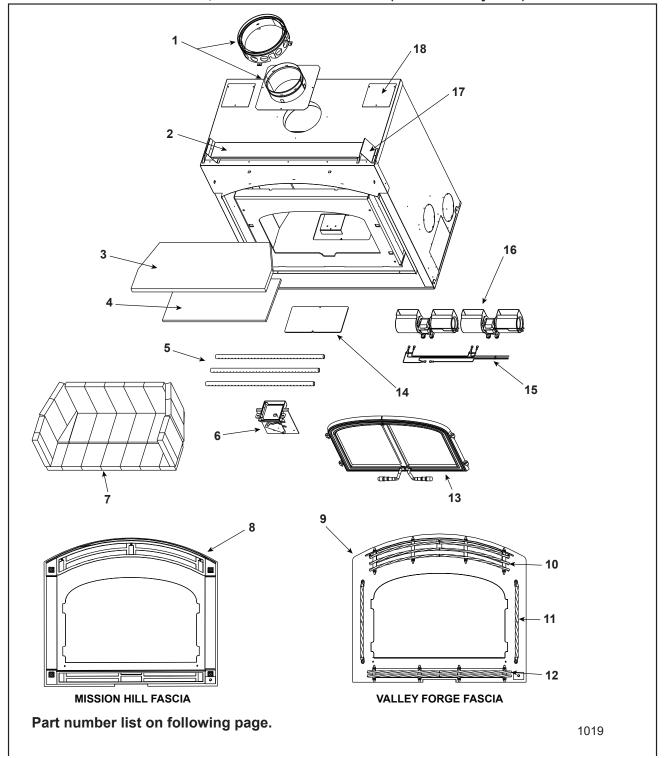


7100 FP

Woodburning Fireplace

Beginning Manufacturing Date: Mar 2005 Ending Manufacturing Date: July 2019

7100FP-BK-B and 7100FP-NL-B (Aug 2006 - July 2019) 7100FP-GD-B (Mar 2005 - May 2016) 7100FP-BK, 7100FP-GD and 7100FP-NL (Mar 2005 - July 2006)



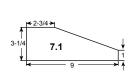
IMPORTANT: THIS IS DATED INFORMATION. Parts must be ordered from a dealer or distributor. **Hearth and Home Technologies does not sell directly to consumers**. Provide model number and serial number when requesting service parts from your dealer or distributor.

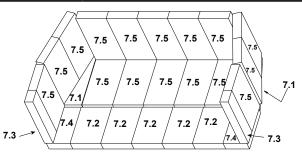
_	
	K~
- 1	-
1	y

Stocked
at Depot

				Jai Depoi
ITEM	DESCRIPTION	COMMENTS	PART NUMBER	
1	Starter Plate Assembly		SL1	
	Starter Section Assembly 8"		SRV22069	Y
2	Header Shield		480-1130	
3	Ceramic Fiber Blanket, 1 In.		SRV433-0920	
4	Ceramic Fiberboard		SRV433-0910	Y
5	Manifold Tube Set		TUBES-433	Y
	Manifold Clip/Screws		832-0661	Y
6	Upgrade Kit - Fan & Timer Upgrade Kit	Pre 1577579	433-5730	Y
0	Timer Assembly - Complete Timer Assembly	Post 1577579	SRV433-5080	Υ
	Component Pack		433-5700	
	Gasket, Timer		SRV433-1290	
	Timer Replacement		SRV480-1940	Y

#7 Brick Set





7	Brick Assembly - Complete Set	Pkg of 27	BRICK-433	
7.1	Brick, 9" x 3.25" x 1" X 2.75" Angled (see diagram)	Qty. 2 Req.	SRV433-6080	
7.2	Brick, 6.25" x 4.5" x 1.25"	Qty. 5 Req.	SRV433-6090	
7.3	Brick, 9" x 2" x 1.25"	Qty. 2 Req.	SRV433-6110	
7.4	Brick, 6.25" x 3.5" x 1.25"	Qty. 2 Req.	SRV433-6120	
7.5	Brick, 9" x 4.5" x 1.25"	Qty. 16 Req.	832-2370	
	Brick Uncut, Clay	Pkg of 6	832-3030	
8	Fascia, Mission Hill	No longer available	DF-7100MH	
0		Post 0071580458	DF-7100MH-B	
	Screw, BH SH 1/4-20 x 1.25 BLK	Pkg of 24	225-0630/24	Υ
	Screw, 1/4-20 x .5 Button Head	Pkg of 20	32328/20	Υ
	Nut, Tinnerman Cage 1/4-20	Pkg of 4	812-2980	Υ
	Component Pack		433-5990	
	Air Director Assembly		SRV433-6380	
9	Fascia, Valley Forge	No longer available	DF-7100VF	
l ⁹		Post 0071580458	DF-7100VF-B	
	Fascia, Rolling Meadows	Post 0071580458	DF-7100RM	
		Post 0071580458	DF-7100RM-NL	
	Component Pack		433-5990	

Additional service part numbers appear on following page.

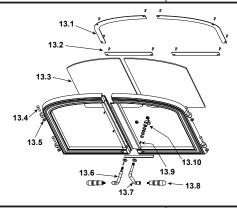
IMPORTANT: THIS IS DATED INFORMATION. Parts must be ordered from a dealer or distributor. **Hearth and Home Technologies does not sell directly to consumers**. Provide model number and serial number when requesting service parts from your dealer or distributor.



Stocked at Depot

ITEM	DESCRIPTION	COMMENTS	PART NUMBER	
10	Louver Assembly, Top		433-5130	
11	Side Bar Asembly		433-5210	
12	Louver Assembly, Bottom		433-5120	

#13 Door, Glass and Door Handle Assembly



	Door Assembly (A whole new door must be ordered to change the color of the trim)	Black	SRV433-5580	
13		No longer available	SRV433-5590	
		Nickel	SRV433-5600	
13.1	Glass Frame, Top		SRV433-1610	
13.2	Glass Frame, Bottom		SRV433-1620	
13.3	Glass Assembly	Qty 2 req	SRV433-5750	Υ
	Gasket, Rope, 1/4", Black (Glass), Field Cut to Size	10 Ft	834-1460	Υ
40.4	His as Dia	No longer available	229-1240	
13.4	Hinge Pin	Nickel	229-1250/10	Υ
13.5	Washer, 1/4 Sae	Pkg of 24	28758/24	Υ
	Door Handle Kit		HANDLES-433	Υ
13.6	Handle, Door, Left		SRV433-2030	
13.7	Handle, Door, Right		SRV433-0770	
13.8	Fiber Handle		SRV433-1380	Υ
13.9	Key, Cam Latch		SRV430-1151	
13.10	Cam Latch		SRV32084	
	Door Trim, Left (Only use for damaged as a replacement for	No longer available	433-7160	
	damaged parts)	Nickel Trim	SRV433-7340	
	Door Trim, Right (Only use for damaged as a replacement for	No longer available	433-7150	
	damaged parts)	Nickel Trim	SRV433-7330	
	Gasket, Door, Left & Right Door		SRV433DRGASKET	Υ
	Gasket, Lytherm, 1/2" x 1/8"	7 Ft	834-2590	
	Screw, Flat Head Philips 8-32 x 1/2	Pkg of 10	832-0860	Υ
	Washer, Sae, 3/8	Pkg of 3	832-0990	Υ

Additional service part numbers appear on following page.

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.



This tab sits behind the front tube

Stocked at Depot

ITEM	DESCRIPTION	COMMENTS	PART NUMBER	
14	Access Assembly		433-6270	
15	Wire Harness		SRV480-0990	Υ
	Upgrade Kit - Fan & Timer Upgrade Kit	Pre 1577579	433-5730	Υ
16	Blower Assembly	Pre 0091588198	812-4900	Υ
	Blower Assembly w/Bracket (Qty 2 req)	Post 0091588198	SRV433-5890	Υ
17	Standoff Top		480-1040	
18	Plate, Cover, Outer Can		480-1300	

#19 Protection Channel Side view Protection channel sits in between front tube and ceramic fiber board.

19	Baffle Protection Kit		433-2720	Υ
	Air Shut Off Kit	Pre 1575932	ASK-7100	
	Control Knob, OA Handle		SRV7000-246	Y
	Brick Retainer Assembly		SRV433-5860	Y
	Bypass Lever Assembly		SRV433-5850	Y
	Chimney Air Kit		CAK4A	
	Outside Air Shield		SRV33271	Y
	Collar, Set, 1/4		229-0750	
	Component Pack (Includes Clamp Connector, Knob, Owners Manual, Epa Label, Sales Efficiency, Light Switch, Light Switch Cover Plate, Fan Speed Control, Touch-Up Paint & Quadra-Fire Warranty Card)		433-5180	
	Control Arm Assembly		SRV433-5880	
	Face Board Assembly, Non-combustible board		SRV433-5720	Y
	Fan Speed Control		SRV7000-143	Y
	Flange, Outer Can Lower		433-0970	
	Hearth Strip		SRV18320	
	Knob, ACC Knob	Pkg of 2	32284/2	Y
	Light Switch	No longer available	SRV480-1260	
	Light Switch Cover Plate	No longer available	SRV480-1270	
	Outside Air Hood 6"		SRV4059-051	
	Paint Touch-Up		812-0910	
	Unit Collar		SRV659-125	

Additional service part numbers appear on following page.

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

М	DESCRIPTION	COMMENTS	PART NUMBER	
	Snap Disc F220-160F		SRV480-1730	Y
Ī	Snap Disc, F180F-150, (for use with Uninsulated Chases)		SRV4021-827	
	Latch, Magnet		SRV229-0631	
	Adhesive, Hi Temp		7000-298	
	Label, Operation		SRV433-3530	
	Label, Outside Air		SRV433-3870	
	Outside Air Door Assembly		SRV433-6290	
	ACCESSORIES	3		•
	Firescreen		SCR-433	
	Front, Mission Hill		DF-7100MH-B	
	Heat Zone Kit		HEAT-ZONE-WOOD	
	DV Adapter		SRV7010-172	
	Fan, Heat Zone		SRV7015-003	
	Return Air Grille, 12 x 6		SRV7015-110	
	Unit Collar		SRV659-125	
Ì	Lintel Bar		LINTEL-433	
	Template, Metal		TMP-433	
	TR Top Vent Kit		TR-TVK	
	FASTENERS			ĭ
	Avk Rivnut Repair Kit - 1/4-20 & 3/8-16 Rivnut Tools		RIVNUT-REPAIR	Y
_	Nut, Capped, Push, 1/4	Pkg of 24	7000-157/24	Y
\downarrow	Nut, Keps Lock, 8-32	Pkg of 40	226-0060/40	Y
	Nut, Ser Flange Small 1/4-20	Pkg of 24	226-0130/24	Υ
\downarrow	Screw, PH 8-32 x 1/2	Pkg of 25	220-0030/25	Y
\downarrow	Screw, Machine Screw 1/4-20 X 5/8	Pkg of 24	220-0440/24	Y
_	Screw, Pan Head Philips 8-32 X 3/4	Pkg of 24	229-1100/24	Y
\perp	Screw, Pan Head Philips 8-32 X 3/8	Pkg of 40	225-0500/40	Y
	Screw, Sheet Metal #8 X 1/2 S-Grip	Pkg of 40	12460/40	Y
	Wing Nut WF .8-32, Refractory Retainer	Pkg of 24	226-0160/24	Y

This page intentionally left blank.

This page intentionally left blank.

B. Contact Information



Quadra-Fire, a brand of Hearth & Home Technologies 1915 West Saunders Street Mount Pleasant, Iowa 52641

Please contact your Quadra-Fire dealer with any questions or concerns.

For the number of your nearest Quadra-Fire dealer, please visit www.quadrafire.com.

- NOTES -

CAUTION

DO NOT DISCARD THIS MANUAL

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



This product may be covered by one or more of the following patents: (United States) 5613487, 5647340, 5890485, 5941237, 6006743, 6019099, 6053165, 6145502, 6374822, 6484712, 6601579, 6769426, 6863064, 7077122, 7098269, 7258116, 7470729, 8147240 or other U.S. and foreign patents pending.

2000-945C