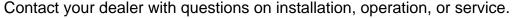
Owner's Manual

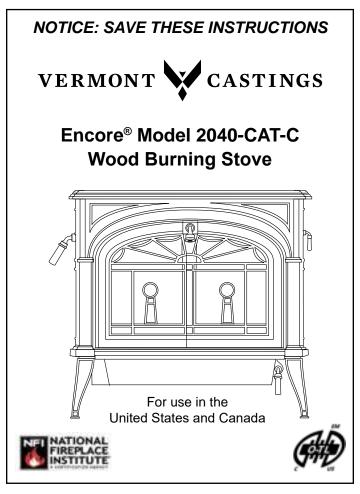
Operation & Care

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

OWNER: Retain this manual for future reference.







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 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 over fire 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 SUPERVISE children in same room as fireplace.
- Alert children and adults to hazards of high temperatures
- High temperatures may ignite clothing or other flammable materials.
- Keep clothing, furniture, draperies and other flammable materials away.

NOTE

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

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

Congratulations on your choice of a Vermont Castings Encore® Model 2040-CAT-C Wood Burning Stove. At Vermont Castings we take American craftsmanship seriously. We assure you that your cast-iron Vermont Castings stove has been made with the utmost care and will provide you with many years of service.

As you become acquainted with your new stove, you will find that its appearance is matched by its functionality, due to cast iron's unique ability to absorb and radiate heat.

Also, Vermont Castings products are among the cleanest-burning wood stoves available today. However, clean burning depends on both the manufacturer and the operator. Please read this manual carefully to understand how to properly operate and maintain your stove.

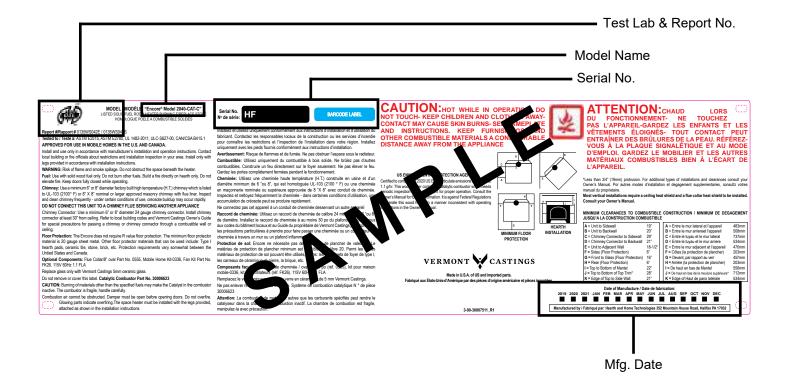
At Vermont Castings, we are committed to your satisfaction as a customer. That is why we maintain an exclusive network of the finest dealers in the industry. Our dealers are chosen for their expertise and dedication to customer service. Feel free to contact your Authorized Vermont Castings Dealer anytime you have a particular question about your stove or its performance.

This manual contains valuable instructions on the operation of your Vermont Castings Encore® Model 2040-CAT-C Wood Burning Stove. It also contains useful information on maintenance. Please read the manual thoroughly and keep it as a reference.

This heater meets the U.S. Environmental Protection Agency's emission limits for wood heaters sold on or after May 15, 2020.

Please read this entire manual before you operate your new stove. Failure to follow instructions may result in property damage, bodily injury, or even death. **Proposition 65 Warning:** Fuels used in gas, wood burning or oil fired appliances, and the products of combustion of such fuels, contain chemicals known to the State of California to cause cancer, birth defects and other reproductive harm.

California Health & Safety Code Sec. 25249.6





A 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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A. 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	Period	HHT Manufactured Appliances and Venting						
Parts	Labor	Gas	Pellet	Wood	Electric	Venting	Components Covered	
1 Year		х	х	х	х	All parts including handles, external enal components and other material except as of Conditions, Exclusions, and Limitations		
			х	х			Igniters, Auger Motors, Electronic Components, and Glass	
2 years		x					Electrical components limited to modules, remotes/wall switches, valves, pilots, blowers, junction boxes, wire harnesses, transformers and lights (excluding light bulbs)	
		Х		Х			Molded Refractory Panels, Glass Liners	
3 уеа	ars		х				Firepots, burnpots, mechanical feeders/auger assemblies	
5 years	1 year	Х					Vent Free Burners, Vent Free Logs	
- years	. , ,		Х	Х			Castings, Medallions and Baffles	
6 years	3 years			Х			Catalyst - Limitations Listed	
7 years	3 years		х	х			Manifold tubes, HHT Chimney and Terminations	
10 years	1 year	Х					Burners, logs and refractory	
Limited Lifetime	3 years	х	х	х			Firebox and heat exchanger, FlexBurn® System (engine, inner cover,access cover and fireback)	
1 Year	None	х	х	х	х	х	All replacement parts beyond warranty period	

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 to the original purchaser at the site of original installation. 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.
- 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.

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 SPECIFICED HEREIN. THE DURATION OF ANY IMPLIED WARRANTY IS LIMITED TO DURATION OF THE EXPRESSED WARRANTY SPECIFIED ABOVE.

Product Listing and Important Safety Information

A. Appliance Certification

MODEL:	Encore® Model 2040-CAT-C
LABORATORY:	OMNI Test Laboratories, Inc
REPORT NO.	0135WS042E & 0135WS042S
TYPE:	Solid Fuel Room Heater / Wood Burning Type
STANDARD(s):	ASTM E2515, ASTM E2780, UL 1482- 2011, ULC-S627-00, CAN/CSA B415.1
ELECTRICAL RATING:	115 VAC, 60 Hz

B. BTU & Efficiency Specifications

EPA Certification Number:	164-18		
Catalytic Information			
EPA Certified Emissions:	1.1 g/hr		
*EPA Default LHV:	82.8%		
**Actual tested HHV:	76.8%		
***EPA BTU Output:	12,800 - 37,100		
****Peak BTU/Hour Output:	48,000		
Other Important Information			
Vent Size:	6 Inch (152 mm) 8 Inch (203 mm)		
Firebox Size:	2.3 cu. ft.		
Max. Wood Length:	22" Maximum		
Ideal Wood Length:	18" (Top Load)		
Fuel	Seasoned Cordwood (20% moisture)		

The Vermont Castings Encore® Model 2040-CAT-C Wood Appliance meets the U.S. Environmental Protection Agency Certified to comply with the 2020 particulate emission standards using cord wood.



C. California



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 know to the State of California to cause birth defects or other reproductive harm. For more information go to: www.P65Warnings.ca.gov

D. Mobile Home Approved (USA & Canada)

- This appliance is approved for mobile home installations in the USA & Canada 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, and chimney must be listed to UL103 HT or a listed UL-1777 full length six inch (152mm) diameter liner must be used.
- Outside air must be provided in a mobile home installation.

E. Glass Specifications

This appliance 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.
- · Operating appliance without legs attached (if supplied with appliance).
- 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.

In the United States it is against the law to operate this wood heater in a manner inconsistent with the operating instructions in this manual.

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

Vermont Castings is a registered trademark of Hearth & Home Technologies.

Operating Instructions

A. Appliance Controls

Two controls regulate the performance of the Encore® Model 2040-CAT-C: a **primary air control** supplies oxygen for the fire, and a **damper** directs air flow within the stove to activate and deactivate the combustion system, Figure 2.1.

Symbols on the stove are reminders of the correct directions for using the controls. The words 'Left' and 'Right' in these directions are *facing the stove*.

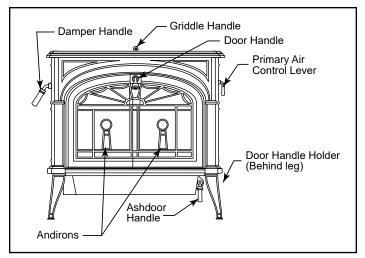


Figure 2.1 - The Encore® Model 2040-CAT-C controls are conveniently located and easy to operate.

A Single Air Control Regulates Heat Output and Burn Time

The **primary air control lever**, on the right of the stove, controls the amount of incoming air for starting, maintaining, and reviving a fire.

Once the air control is manually set, a bi-metallic thermostat automatically maintains the heat output at a constant level for a more even heat over the life of the burn.

More air entering the stove makes the fire burn hotter and faster, while less air prolongs the burn at a lower heat output level.

For the greatest air supply and maximum heat output (but the shortest burn time), move the lever toward the front of the stove. For a fire that will last longer with less heat, move the lever toward the rear of the unit, Figure 2.2.



WARNING

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

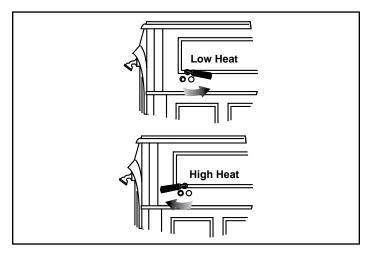


Figure 2.2 - The handle may be positioned anywhere between the two extremes for different heat levels.

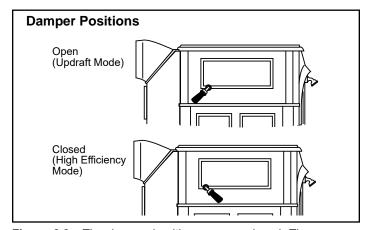
A Damper Directs Air Flow Within the Stove

The **damper handle** on the left side of the stove operates the damper to direct air flow within the stove.

The damper is **open** when the handle points to the **rear**, enabling smoke to pass directly into the chimney. The damper must be open when starting or reviving a fire, and whenever the griddle or doors are opened.

The damper is **closed** when the handle points **down.** Smoke travels through the secondary combustion system where it can be further burned, before passing up the chimney, Figure 2.3.

The damper should always be either fully open or fully closed. There are no intermediate positions. When closing the damper, be sure to pull firmly enough to snap the handle into the locked position.



 $\label{eq:Figure 2.3} \textbf{-} \textbf{The damper is either open or closed. There are no intermediate positions.}$

B. Conditioning Your Stove

Cast iron is extremely strong, but it can be broken with a sharp blow from a hammer or from the thermal shock of rapid and extreme temperature change.

The cast plates expand and contract with changes in temperature. When you first begin using your Encore® Model 2040-CAT-C, minimize thermal stress by letting the plates adjust gradually during three or four initial break-in fires.

C. Wood Burning Operation

Burn only solid wood in the Encore® Model 2040-CAT-C Wood Stove, and burn it directly on the grate. Do not elevate the fuel. Do not burn coal or other fuels. In the United States, it is against the law to operate this wood heater in a manner inconsistent with operating instructions in this manual.

The bypass damper must be open when starting a fire or when refueling.

Do not use chemicals or fluids to start the fire. Do not burn garbage. Never use flammable fluids such as gasoline, gasoline type lantern fuel, kerosene, charcoal lighter fluid, naptha, engine oil or similar liquids to start or "freshen up" a fire in this heater. Keep all such liquids well away from the heater while it is in use.

The following procedures are important for reliable, clean and efficient operation of your woodstove. Recommend 16" logs Properly seasoned (up to a year for denser woods) Split to 3" to 6" cross sections

Cold start:

When starting your stove at room temperature and when no burning coals are present the following kindling procedure has been found to be the most reliable.

Stack about 4 lbs of finely split kindling (1" diameter or less 10 to 20 pcs) in a 'log cabin' style directly against the rear wall. Place a small amount of newspaper on top of this pile with one or two small pieces of kindling on top. This is referred to as a top down method and while providing a slower start, also serves to preheat the combustion properly resulting in a reliable start., Figure 2.4.

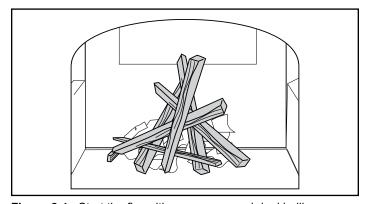


Figure 2.4 - Start the fire with newspaper and dry kindling.

With the bypass damper open and the primary air set to its highest position, light the newspaper. Leave the front door cracked until the kindling ignites, then close the doors.

After most of the kindling has burned into coals (15 to 20 minutes), open the front doors and push remaining coals and unburned wood against the rear wall. Add several pieces of larger split wood between 2 to 3 inches in diameter (about 6 lbs) directly against the rear wall and on top of the kindling coals. Close the doors and bypass to engage the combustion system. The air should remain on high for up to one hour or until the wood is mostly converted to coals.

After a hot bed of coals is produced, open the door and bypass damper and push the remaining coals again toward the rear wall. Add large pieces of wood starting against the rear wall and on top of the coals. Close the doors and bypass immediately after loading the stove.

Ideally, allow this wood load to burn at the highest air setting for the entire wood load. If this is not possible, the wood should burn for at least 30 minutes prior to reducing the primary air setting.

D. Ways to Add Fuel

To open the front doors, insert the handle into the door latch stub and turn it clockwise, Figure 2.5.

To close them, always close the left door first. Turn the handle in the right door to the left and up (to the open position) and close it. Finally, push on the door as you turn the handle counterclockwise. The doors will draw in slightly, and the handle should offer some resistance as you turn it to the closed position.

To reduce the risk of breaking the glass, avoid striking the glass or slamming the doors.

When you are not using the door handle, store it in the holder behind the left front leg of the stove.

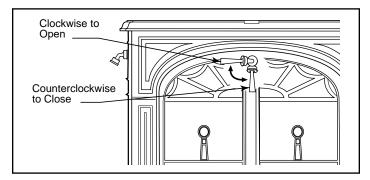


Figure 2.5 - To open the front doors, turn the handle clockwise.



Fireplace stoves equipped with doors 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 stove opening, creating risks from both fire and smoke.

For best results when refueling, wear long-cuffed stove gloves to protect your hands and forearms.

Reloading a hot stove:

When a wood load is added to a hot bed of coals (continuous use), open the bypass damper and either the top or front loading doors. Stir the hot coals to allow ash to fall through the grate. Hot coals should then be pushed against the rear wall and leveled depending on the amount of coals. Add fresh wood and close the loading door and bypass damper. If the coals are glowing and hot, it is possible to set the air control to any setting immediately after loading the stove.

Reloading a warm stove:

If the stove is relatively cold (for instance after a long overnight burn), the coal bed may need to be re-energized prior to adding a large load of wood. Open the bypass damper and either the top or front loading door. Stir the coals to allow ash to fall through the grate. Push the remaining coals toward the rear wall. Close the door(s) and bypass damper and set the primary air to the highest position. Allow the coals to re-ignite and heat the system for 10 to 15 minutes. Once the coals are glowing, a fresh batch of wood may be added following the "hot stove" procedure above.

A proper bed of coals is critical to the performance of the Encore stove. The rear refractory wall of the stove should be almost entirely white in color with proper operation. This indicates the combustion system is running at a proper elevated temperature. If the rear wall is black with creosote or develops a dark brown color, it is likely that the coal bed is not sufficiency large enough or hot enough. Revisit the above instructions and adjust the amount of kindling or time at high air settings to get the system hotter. Wood size or excessive moisture may also cause lower than desirable stove temperatures.

While not required, operating your stove with the catalytic combustor installed creates optimum conditions for secondary combustion and will increase your efficiency up to 15% on low burn, making sure you get the most heat out of each load of wood.

The catalytic element is a metal "honeycomb" coated with the catalytic material. The element sits at the bottom of the secondary combustion chamber. Smoke, gases and particulates that are not fully combusted during the secondary combustion process pass through the catalyst, creating a tertiary burn. This results in higher efficiency and lower emissions.

The catalyst will initiate combustion of smoke and particulates at 500° - 600°F (260° - 315°C), half the temperature normally required for unaided secondary combustion. If you followed the startup operation steps in the previous section the stove will be sufficiently hot to allow the combustor to work. Once the combustor starts working, heat generated by burning the smoke will keep it working.

To determine whether the combustor is operating, refer to the temperature probe which shows the operating range of the catalytic combustor. This is located on the back of the stove and is viewed from the top. **NOTE:** It will take several minutes after closing the bypass damper for the temperature probe to fully adjust to the new temperature. If the probe indicator is below the operate catalyst range, add fuel or open the bypass damper to allow the fire to further build before engaging the catalyst again.

If the probe indicator is above the operate catalyst range, the catalytic combustor is running too hot and may be damaged. In many cases, decreasing the primary air can reduce the catalyst temperature and adding less wood with each loading can also help if overheating is persistent. Do not add wood to the stove if the probe reads above the operate catalyst range.

Avoid using a full load of very dry wood in the firebox, such as dry slab wood or wood with below 14% moisture content. This may result in continuous very high temperatures in the secondary combustion area and damage the combustor.

Never burn treated wood, garbage, solvents or trash. All of these may poison the catalyst and prevent it from operating properly. Never burn cardboard or loose paper except for kindling purposes. Never burn coal; doing so can produce soot or large flakes of char or fly ash that can coat the combustor and cause smoke to spill into the room. Coal smoke can also poison the catalyst so that it won't operate properly.

NOTE: The catalytic combustor is fragile and will crack if subjected to thermal shock. Thermal shock can occur when refueling with wet wood or closing the bypass damper too early after refueling.



DO NOT OPERATE THE STOVE WITH THE ASH DOOR OPEN. OPERATION WITH THE ASH DOOR OPEN CAN CAUSE AN OVER-FIRING CONDITION TO OCCUR. OVER-FIRING THE STOVE IS DANGEROUS AND CAN RESULT IN PROPERTY DAMAGE, INJURY OR LOSS OF LIFE.

Andirons Help Protect the Glass

Your stove has andirons to keep logs away from the glass panels. The andirons are essential to maintain clear fire viewing, and should be left in place. Since the andirons may slightly hinder refueling through the front doors, most stove owners will prefer the convenience of top loading through the griddle. Do not place fuel between the andirons and the doors.

Burn Only High-Quality Wood

The Encore® Model 2040-CAT-C is designed to burn natural wood only; do not burn fuels other than that for which it was designed.

IMPORTANT: Do not burn any type of artificial or synthetic materials such as fire starter logs (containing wax) in this appliance. Never burn liquid-based fuels such as kerosene, gasoline or alcohol.

Burning any materials not allowed in these instructions, or over-firing the stove, may void the warranty.

You'll enjoy the best results when burning wood that has been adequately air-dried. The wood should be 16" - 18" (406-457 mm) in length. Avoid burning "green" wood that has not been properly seasoned. (**Note:** Properly seasoned firewood has a moisture content below 20 percent.) Do not burn construction materials; they often contain chemicals and metals that can damage the inside surfaces of the stove and pollute the air. Do not burn ocean driftwood; when it burns, the salt it contains will attack the cast iron.

The best hardwood fuels include oak, maple, beech, ash, and hickory that has been split, stacked, and air-dried outside under cover for at least one year.

If hardwood is not available, you can burn softwoods that include tamarack, yellow pine, white pine, Eastern red cedar, fir, and redwood. These should also be properly dried.

Store split wood under cover to keep it dry. Even for shortterm storage, be sure to keep wood a safe distance from the stove and keep it out of the areas around the stove used for refueling and ash removal. Surface Thermometer is a Valuable Guide to Operation An optional surface thermometer tells you when to adjust the air control, and when to refuel, Figure 2.8.



Figure 2.8 - Take temperature readings with a thermometer located in the middle of the griddle.

For example, when the thermometer registers at least 450°F (230°C) on the stove top after start-up you know the stove is hot enough and it may be time to close the damper if a sufficient ember bed has also been established. Note that the stove will warm up much sooner than the chimney, though; a warm chimney is the key to easy, effective stove operation. When thermometer readings drop below 350°F. (175°C) it's time to adjust the air control for a higher burn rate or to reload the stove. A temperature reading over 650°F. (340°C) is a sign to reduce the air supply to slow the burn rate.

Use the following temperature ranges as a guide:

- Readings in the 350°-500°F. (175°-260°C) range indicate low to medium heat output.
- 500°-600°F. (260°-315°C) readings indicate medium heat output.
- Readings of 600°-650°F. (315-340°C) indicate high heat output. Operating your Encore® Model 2040-CAT-C continuously at griddle temperatures higher than 650° F (340°C) may damage the cast iron or enamel finish.

Use the Air Control Settings that Work Best for You

No single air control setting will fit every situation. Each installation will differ depending on the quality of the fuel, the amount of heat desired, and how long you wish the fire to burn; outdoor air temperature and pressure also affect draft.

The control setting also depends on your particular installation's "draft," or the force that moves air from the stove up through the chimney. Draft is affected by such things as the length, type, and location of the chimney, local geography, nearby obstructions, and other factors.

Too much draft may cause excessive temperatures in the Encore® Model 2040-CAT-C, and could even damage the stove. On the other hand, too little draft can cause backpuffing into the room and/or the "plugging" of the chimney.

How do you know if your draft is excessively high or low? Symptoms of too much draft include an uncontrollable burn or a glowing-red stove part. Signs of weak draft are smoke leaking into the room through the stove or chimney connector joints or low heat output.

In some newer homes that are well-insulated and weathertight, poor draft may result from an insufficient air supply in the house. In such instances, an open window near the stove on the windward side of the house can provide the combustion air supply needed.

Another option for getting more combustion air to the stove is to duct air directly from outside to the stove. In some areas provisions for outside combustion air are required in all new construction.

When first using the stove, keep track of the air control settings. You will quickly find that a specific setting will give you a fixed amount of heat. It may take a week or two to determine the amount of heat and the length of burn you should expect from various settings.

Most installations do not require a large amount of combustion air, especially if adequate draft is available. Do not for any reason attempt to increase the firing of your heater by altering the air control adjustment range outlined in these directions.

E. Ash Disposal

DO NOT OPERATE THE STOVE WITH THE ASH DOOR OPEN. OPERATION WITH THE ASH DOOR OPEN CAN CAUSE AN OVER-FIRING CONDITION TO OCCUR. OVER-FIRING THE STOVE IS DANGEROUS AND CAN RESULT IN PROPERTY DAMAGE, INJURY OR LOSS OF LIFE.

Routine ash removal is important for ease of maintenance, and is important for the stove's durability. Remove ash before it reaches the top of the ash pan. Check the level at least once a day. Every few days, clear any ash from the outer edges of the firebox. Most of the ash will fall through the grate. Stir the ash with a shovel or poker so that it falls through the grate slots.

IMPORTANT: Check the level of ash in the ash pan before reloading the stove. If the ash level is close to the top edge of the pan, empty the pan according to this procedure:

- · Open the damper.
- Open the griddle or front doors, and use a shovel or poker to stir excess ash through the ash slots in the grate down into the ash pan.
- Close the griddle or doors, and unlatch the ash door, Figure 2.9. It will pivot, swinging the ash pan out of the stove.

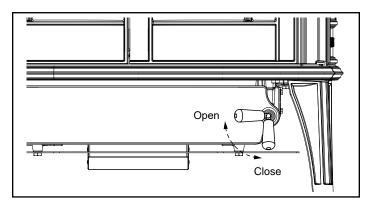


Figure 2.9- Turn the ashdoor handle clockwise to open and counterclockwise to close.

 Slide the cover onto the pan, making sure it is securely closed, Figure 2.10.

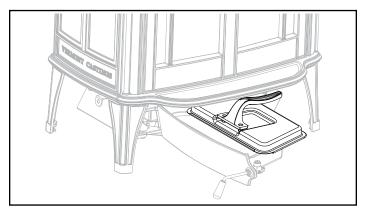


Figure 2.10 - Be sure the cover is securely attached before removing the ash pan.

- Remove the ash pan, making sure to keep it level.
- To keep the cover from sliding off and to keep ash from falling on the floor, do not tilt the ash pan forward.
- If the stove is in operation, close the ash door while disposing of the ash. You may need to lift the latch end of the door slightly to align the latch with the mating part on the stove bottom.
- Properly dispose of the ash in a metal container with a tight-fitting lid. Store the container outdoors away from all combustible material.
- Return the ash pan to its original position in the stove, and close and latch the ash door.



WARNING

Do not operate the stove with the ash door open. This will result in over-firing, and could cause damage to the stove, void the warranty, or even lead to a house fire.

Empty the ash pan regularly, typically every one to three days. The frequency will vary depending on how you operate your Encore® Model 2040-CAT-C: ash will accumulate faster at higher heat outputs.

Removed ash should be placed outdoors in a metal container with a tight-fitting lid. Keep the closed container of ash on a noncombustible floor or on the ground, well away from all combustible materials, pending final disposal. If the ash is disposed of by burial in soil or otherwise locally dispersed, it should be kept in the closed container until all cinders have thoroughly cooled.



CAUTION

Never use your household or shop vacuum cleaner to remove ash from the stove; always remove and dispose of the ash properly.

F. Opacity (Visible Smoke)

This is the measure of how cleanly your appliance 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. As you become familiar with your appliance, you should periodically check the opacity. This will allow you to know how to burn as nearly smoke-free as possible (goal of 0% opacity).



WARNING



Fire Risk

- DO NOT BURN GARBAGE OR FLAMMABLE FLUIDS SUCH AS GASOLINE, NAPTHA OR ENGINE OIL.
- Do NOT burn treated wood or wood with salt (driftwood).
- May generate carbon monoxide if burn material other than wood.

May result in illness or possible death.



WARNING



Fire Risk

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

- Combustible materials may ignite.
- 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.
- Keep all such liquids well away from the appliance while it is in use.



CAUTION

When burning your first fire, you will experience smoke and odor from the appliance resulting from the curing of paint and burning off of any oils remaining from manufacturing.

OPENWINDOWSDURINGINITIALBURNTODISSIPATE SMOKE AND ODORS!

- Odors may be irritating to sensitive individuals.
- Smoke detectors may activate.

G. Negative Pressure



WARNING



Asphyxiation Risk

- Negative pressure can cause spillage of combustion fumes, soot and carbon monoxide.
- · Appliance needs to draft properly for safety.

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

Causes include:

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

To minimize the effects of negative air pressure:

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

H. Important Information

Creosote is a by-product of slow wood-burning. It's an organic tar that can condense in the flue if it is present in the exhaust, slow-moving, and cools to less than 290°F (130°C). Condensed creosote is volatile, and can generate chimney fires if it gets hot enough. All the features that affect chimney draft also affect creosote condensation - so use whatever combination of installation features and operational steps that will encourage good draft and minimize creosote production.

Because letting the exhaust cool off and slow down is one of the keys to creosote accumulation, it makes sense to line a chimney to match the stove's outlet size, for safety reasons as well as performance. Canadian law requires a matching liner to serve any stove or insert vented through a fireplace chimney; in the US, the National Fire Protection Association (NFPA) recommends a chimney liner if the flue is more than three times bigger (in square area) than the outlet on the stove or insert. Some localities enforce the NFPA guidelines as part of their building codes.

Fuel: Even the best stove installation will not perform well with poor fuel. The best fuel is hardwood that has air-dried 12-18 months. Softwood burns, but not as long as hardwood. 'Green' wood contains a lot of moisture; it will burn, but some of the heat potential is used to boil the extra moisture from the wood. This reduces the amount of heat that reaches your home and can contribute to a creosote problem. There are moisture meters available for firewood; you can also judge your wood by its appearance and weight (Moisture content of 20% or less is best). If you get it green, lift a piece and get a sense of its weight; it can lose a third or more of its weight as it dries. Also look at the ends of a log; as it dries it shrinks and often cracks. The more weathered and cracked a piece is, the drier it is.

Dry wood burns readily with a good chimney draft. But with modern stoves, wood can be too dry and too volatile. Smoke and combustible gases can 'gas out' from the wood quickly and densely enough to overload the combustion system. If you hear a rumbling or roaring noise (like a propane torch) from the stove, that is a sign that the stove is over-firing.

Back-puffing results when the fire produces volatile gases faster than the chimney draft pulls them out of the firebox. The gases back up in the firebox until they are concentrated enough and hot enough to ignite. If your stove back-puffs, the stove needs to cool down. You should open the damper to let the smoke rise to the flue more quickly, allow more air into the firebox, avoid big loads of firewood and check that the wood moisture is not too low.

Draft Testing: An easy way to test your chimney draft is to close the stove's damper, wait a few minutes to let the airflow stabilize, then see whether you can vary the strength of the fire by swinging the air control open and closed. Results are not always instant; you may need to wait a few minutes for a change in the air control setting to have an effect on the fire. If there's no change, then the draft isn't strong enough yet to let you close the damper, and you'll need to open it for awhile longer and manage the fire with the air inlet until the draft strengthens. If you keep track of your burning habits and relate them to their effects on the stove's operation, you'll be rewarded with good performance and a safe system.

Conclusion: Wood-burning is an art rather than a science. Once the stove and chimney system are in place, you can only vary your technique, mostly your timing, to achieve good results. If you keep track of your burning habits and relate them to their effects on the stove's operation, you'll be rewarded with good performance and years of reliable heating.

3 Maintenance

Keep Your Stove Looking New and Working Its Best

Let the fire in the stove go out and allow the stove to cool completely before beginning any maintenance procedure.

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

Care of the Cast Iron Surface

An occasional dusting with a dry rag will keep the painted cast iron of your Encore® Model 2040-CAT-C looking new.

The stove's paint can be touched up as needed. First, mask the areas, such as enameled parts, glass, or handles, around the spot to be painted. Clean the spot with a wire brush. Remove the griddle and set it aside. It is normal for the griddle to darken after use. You can clean it with a fine-bristle wire brush, or steel wool.

Then, touch up the stove with high temperature stove paint. Apply the paint sparingly; two light coats of paint are better than a single heavy one.

Care of the Porcelain Enamel Surface

Use a dry or slightly damp rag or soft brush to remove spills or stains. For difficult jobs that require a cleaning agent, use only a kitchen appliance cleaner or polish recommended for use on enamel surfaces.

If porcelain enamel becomes chipped or scratched during use, apply "enamel epoxy" to the damaged area and allow to dry. Once the epoxy has dried, sand the area to blend with surrounding area and apply appropriate color touch-up paint. Allow to dry completely before operating stove.

A. Cleaning and Replacement of Glass

Most of the carbon deposits on the glass will burn off during hot fires.

However, the ash residue that accumulates on the glass surface should be removed regularly to prevent etching. To clean the glass, follow this procedure:

- Be sure the glass is completely cool.
- Clean the glass with water or a cleaner made especially for this purpose. Do not use abrasive cleaners. Use cleaning agents sparingly and be sure to keep them off the outer surfaces of the stove.
- · Rinse the glass thoroughly.
- Dry the glass completely.

Replace Broken Glass Immediately

Do not operate your stove if the glass in the doors is damaged.

If you need to replace the glass, use only the high temperature 5 mm ceramic glass supplied by Vermont Castings. Do not use substitutes.

Removing the Glass

- Remove the right and left door assemblies by raising the door until the lower hinge pin clears its hole; then, angle the door bottom slightly outward and pull down to release the upper hinge pin. Place the doors face down on a padded work surface. Be especially careful with enameled doors.
- 2. Remove the screws that hold the glass retainer clips in place, and remove the clips.
- 3. Carefully lift the broken glass panel from the door.

Installing the Glass

Check the gasket around the window; it should be soft and resilient so that the glass will seal properly against the door. Replace the gasket if it has hardened or if it is compressed.

- 1. Center the glass on the gasket.
- 2. Secure the glass on both doors with the retainer clips. Tighten all screws, Figure 3.1.
- 3. Replace the doors on the stove.
- 4. Open and close the doors to check that they fit and work properly. Adjust as necessary.

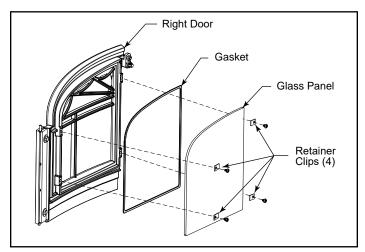


Figure 3.1 - Exploded view of the glass assembly for the right door.

B. Damper Adjustment (as Needed)

The tension on the Encore® Model 2040-CAT-C's damper is adjustable to compensate for compression of the gasket that seals the damper to the upper fireback. To adjust the damper:

- 1. Remove the griddle. Loosen the lock nut at the center of the damper, Figure 3.2.
- 2. Turn the pressure screw approximately one half turn clockwise with an Allen wrench provided with your stove.
- 3. Tighten the lock nut. Prevent the pressure screw from turning as you tighten the nut. Re-test the damper.

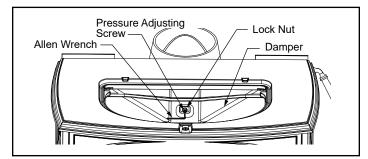


Figure 3.2 - Adjust the damper with the Allen wrench.

Tighten the Damper Handle as Needed

A handle on the left side of the stove controls the damper. The handle attaches to the damper rod with a set screw. Periodically check the set screw and tighten as necessary.

C. Door Latch Adjustment

The front door of the stove should close securely to prevent accidental opening and should close tightly to prevent air from leaking into the fire chamber. The door handle will be positioned vertically when the door is closed.

Over a period of time, the gasket around the door will compress and the latch may need adjustment. To adjust the handle, follow this procedure:

- 1. Remove and retain the lock nut with a 9/16" wrench, Figure 3.3.
- 2. Loosen the set screw with a 1/8" Allen wrench.
- 3. Rotate the pawl 180°. Replace the lock nut. Tighten the set screw, Figure 3.3.
- Additional adjustment can be made by removing the flat washer. Or any combination of washer removal and/or pawl rotation.

Test the door seal. Close the door on a dollar bill and attempt to pull it free. If the bill is freed with little resistance, the gasket isn't snug enough at that spot. Continue to make small adjustments until the setting is right.

If additional adjusting of the latch does not enable the door to seal sufficiently in one area, try adjusting the gasket in that area. Pack more cement or a smaller diameter gasket into the channel beneath the gasket so the main gasket is raised and makes contact with the door frame. If this procedure doesn't solve the problem, replace the gasket. Instructions for gasket replacement are given later in this section.

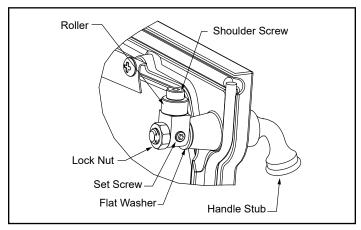


Figure 3.3 - Rotate pawl and/or remove flat washer to adjust latch.

D. Gasket Replacement (as needed)

Your Encore® Model 2040-CAT-C uses fiberglass rope gaskets to make a tight seal between some parts. With use, particularly on moving parts, gaskets can become brittle and compressed and can begin to lose their effectiveness. These will need periodic replacement.

The sizes of replaceable gasket are listed below, along with their applications.

Gasket Diameter.....And the Parts it Seals

5/16" The griddle to the stove top (wire reinforced gasket)

5/16" The damper to the upper fireback

3/8" The front doors to the stove front; and the doors to each other.

3/8" The ash door to the front of the bottom panel

3/16" The outer glass panes to the door

If you need to change a gasket, first obtain an appropriate replacement from your Vermont Castings' Authorized Dealer.

Wait until the fire is out and the stove has cooled. Be sure to follow the standard safety procedure for working with dusty materials: wear safety goggles and a dust mask.

The procedure for replacing gaskets is the same, regardless of the gasket location. Follow these steps:

1. Remove the existing gasket by grasping an end and pulling firmly, Figure 3.4.

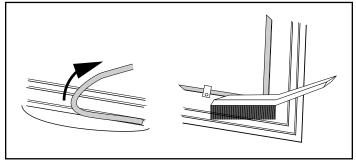


Figure 3.4 - Remove gasket then clean channel with wire brush.

- Use a wire brush or the tip of a screwdriver to clean the channel of any remaining cement or bits of gasket. Remove stubborn deposits of cement with a cold chisel if necessary, Figure 3.4.
- 3. Determine the correct length of the appropriate-sized gasket by laying it out in the channel. Allow an extra 1-2" (25-50 mm), and mark the spot to be cut.
- Remove the gasket from the channel, place it on a wood cutting surface, and cut it at the marked spot with a utility knife.

Twist the ends slightly to keep the gasket from unraveling.

5. Lay an unbroken 1/8" (3 mm) bead of silicone or cement in the newly-cleaned channel, Figure 3.5.

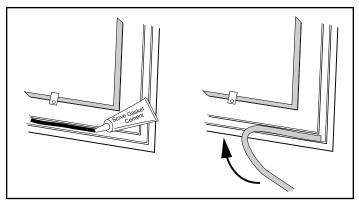


Figure 3.5 - Lay a bead of gasket silicone or cement then press gasket in place.

- Starting at one end, press the gasket into the channel, Figure 3.5. Ensure a good joint where the gasket meets before trimming any excess. Do not overlap the gasket ends or leave ends with ragged edges.
- 7. Press the gasketed part firmly against its normal mating surface to seat the gasket evenly in its channel. Close and latch the door to do this, or tap other parts with the rubber mallet (or hammer/block of wood).
- 8. Clean any excess cement from around the channel, then let the cement that holds the new gasket dry thoroughly.
- The stove's doors may need adjustment after you have regasketed them. Initially, it may require loosening the latch to accommodate the new gasket; after a few weeks, it may need tightening to compensate for compression of the new gasket.

All Gasketed Construction Gaskets

Other gaskets form seals between all other non-moving parts, but these are not subject to the same wear and deterioration as gaskets on moving parts. It is unlikely that you will ever need to replace these gaskets unless the involved parts are disassembled and then put back together. If this is the case, the job should be done only by a qualified service technician.

5/16" diameter gasket seals the following parts:

- · The lower fireback to the back panel
- · The left and right air plates (inner sides)
- All connections between the stove plates.

E. The Chimney System

Creosote

Your Encore® Model 2040-CAT-C is designed to reduce creosote build-up significantly. However, regular chimney inspection and maintenance must still be performed. For safety, good stove performance, and to protect your chimney and chimney connector, inspect your chimney and chimney connector on a regular schedule. Clean the system if necessary. Failure to keep the chimney and connector system clean can result in a serious chimney fire.



WARNING

Inspect and Clean Chimney Frequently – Under certain conditions of use, creosote buildup may occur rapidly.

When wood is burned slowly, it produces tar, organic vapors and moisture that combine 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 within the flue system that can damage the chimney and overheat adjacent combustible material. If a significant layer of creosote has accumulated —1/8" (3 mm) or more — it should be removed to reduce the risk of a chimney fire.

You can never be too safe. Contact your local fire authority for information on what to do in the event of a chimney fire, and have a clearly understood plan on how to handle one.

If you do experience a chimney fire, act promptly to:

- Close the damper and air control lever.
- · Get everyone out of the house.
- · Call the Fire Department.

Inspect the system every two weeks during the heating season as part of a regular maintenance schedule. To inspect the chimney, let the stove cool completely. Then, using a mirror and a strong light, sight up through the flue collar into the chimney flue. If you cannot inspect the flue system in this fashion, the stove must be disconnected to provide better viewing access.

Clean the chimney using a brush the same size and shape as the flue liner. Flexible fiberglass rods are used to run the brush up and down the liner, causing any deposits to fall to the bottom of the chimney where they can be removed through the clean-out door.

Clean the chimney connector by disconnecting the sections, taking them outside, and removing any deposits with a stiff wire brush. Reinstall the connector sections after cleaning, being sure to secure the joints between individual sections with sheet metal screws.

If you cannot inspect or clean the chimney yourself, contact your local Vermont Castings dealer or a professional chimney sweep.

Maintenance Schedule - The Stove

Daily:

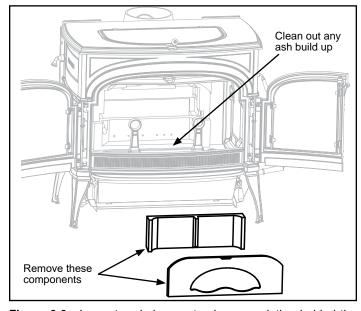
- Clear any ash build-up from around the air holes and combustion flow path in the lower fireback.
- Ashes should be removed before they reach the top of the ash pan. Check accumulation at least once a day.
- Keep the area around the stove clear of any combustible materials such as wood, furniture or clothing.

Two Months:

- Check door handle to be sure it is working properly.
 Gasketing becomes compressed after a period of time.
 Adjust handle tightness if necessary.
- Check leg bolts and heat shield screws; tighten if necessary.

Annual Spring Cleaning:

- Check gasketing for wear, and replace if necessary.
- Remove ashes from the ash pan and replace with a moisture absorbing material (such as kitty litter) to keep the interior of the stove dry.
- Clean the dust from the inner sides of bottom, rear or pipe heat shields if your stove is equipped with them. Clean surfaces are better heat reflectors than dirty surfaces.
- · Touch up the black paint.
- Inspect for and remove ash build-up behind the combustion package. This should be done in conjunction with annual cleaning of the chimney connector. Inspect the passage behind the combustion package (a mirror will be helpful) and vacuum away ash using a flexible vacuum hose inserted in the passage, Figure 3.6.



 $\label{lem:figure 3.6 - Inspect and clean out ash accumulation behind the combustion system.}$

The Chimney Connector

Two Weeks

 Inspect the chimney connector and chimney. Clean if necessary.

Two Months:

 Inspect the chimney and chimney connector. Pay particular attention to the horizontal runs of chimney connector, and the elbows. Clean the system if necessary.

Annual Spring Cleaning:

- Disassemble the chimney connector and take it outdoors for inspection and cleaning. Replace weak sections of connector.
- Inspect the chimney for signs of deterioration. Repairs to a masonry chimney should be made by a professional mason. Replace damaged sections of prefabricated chimney. Your local Vermont Castings dealer or a chimney sweep can help determine when replacement is necessary.
- Thoroughly clean the chimney.

F. The Catalytic Element



CAUTION

BURN UNTREATED WOOD ONLY. OTHER MATERIALS SUCH AS WOOD PRESERVATIVES, METALS, FOILS, COAL, PLASTIC, GARBAGE, SULPHUR, OR OIL, MAY DAMAGE THE CATALYST.

This wood heater contains a catalytic combustor, which needs periodic inspection and replacement for proper operation. In the United States it is against the law to operate this wood heater in a manner inconsistent with the operating instructions in this manual.

Under normal operating conditions, the catalytic combustor should remain active for two to six years (depending on the amount of wood burned). However, it is important to monitor the combustor periodically to ensure that it is functioning properly, as well as to determine when it needs to be replaced. A non-functioning combustor will result in a loss of heating efficiency, and an increase in creosote and emissions.

Inspection and Cleaning

Inspect the combustor for fly ash accumulation and physical damage two to three times per year. Clean the combustor as needed.

The refractory package that houses the catalytic combustor should be inspected for a buildup of fly ash and cleaned if necessary. This may be done when you examine the combustor.

When to Suspect a Combustor Problem

The best way to evaluate the performance of your appliance's combustor is to observe the amount of smoke leaving the chimney — both when the combustor has "lighted-off" and when it has not. Follow these steps:

- With a fire going and the combustor properly activated, with the damper closed to route smoke through it as described in the Operation Section, go outside and observe the smoke leaving the chimney.
- Then, open the stove damper and once again check the smoke leaving the chimney.

You should see significantly more smoke when the stove damper is open and exhaust does not pass through the combustor. However, be careful not to confuse smoke with steam from wet wood. Steam dissipates in the air quickly; smoke does not.

If this test indicates a problem, consider other possible factors as well, such as the weather or a change in the quality of your fuel. In warm weather, draft is weaker than it is in colder winter weather, and fires can burn sluggishly. Small, hot fires are a good solution under these conditions.

Burning "green" (insufficiently seasoned) wood will result in poorer performance than burning properly seasoned fuel. Reloading with green wood can also thermal shock the catalyst, resulting in cracking, or the eventual fallout, of the ceramic honeycomb substrate. You may have to run your stove hotter (more air) to achieve acceptable performance using green or wet wood.

Also, consider any changes in your operating routine.

Once you have ruled out any other possible causes for a decline in performance, inspect and clean the combustor if necessary. Be sure to protect any surface you use for setting the stove parts aside.

NOTE

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Also, consider any changes in your operating routine.

Once you have ruled out any other possible causes for a decline in performance, inspect and clean the combustor if necessary. Be sure to protect any surface you use for setting the stove parts aside.

Inspecting the Combustor

Remove access door and inner firebrick. Remove the catalytic combustor by lifting up and pulling towards you, Figure 3.7.

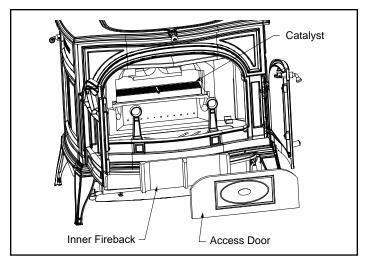


Figure 3.7 - Inspect the catalytic combustor.

To assure a long life for the combustor, it is recommended to service the combustor on a regular basis based on the amount of use. This procedure takes about five (5) minutes and requires no tools except for a vacuum if cleaning is necessary.

Cleaning the Combustor

- Check the combustors honeycomb-like element for a buildup of fly ash. If any is evident, take the combustor outside and clean it by blowing air gently through it. Do not push anything through the honeycomb; do not use compressed air to clear the passages. Such abrasion can scrape the thin coating of platinum (the catalyst) off the ceramic base, shortening the catalyst's life and reducing its effectiveness.
- Inspect the element for damage or degradation. Although small hairline cracks will not affect performance, the element should be essentially intact. If the element is broken in pieces or has sections missing, it should be replaced. Call your local Vermont Castings Authorized Dealer for a replacement element.
- If the element is in good condition and clean, re-install it in the stove and replace the refractory inner fireback and access door.

Operate the stove in your usual manner for two weeks, inspecting the chimney and the chimney connector frequently during this period.

If creosote does not build up as fast, it is likely that the performance change was caused by fly ash deposits on the catalytic element. However, continue the inspections of the chimney system for a few weeks to ensure that proper performance continues.

If you continue to find a significant creosote buildup or if you continue to see excessive smoke from the chimney, the catalytic element will need to be replaced. Contact your nearest Vermont Castings' Authorized Dealer for information about a replacement element.

NOTE: Use only the replacement catalyst supplied by a Vermont Castings dealer.



Troubleshooting Guide

With proper installation, operation, and maintenance your wood appliance will provide years of trouble-free service. If you do experience a problem, this troubleshooting guide will assist you or a qualified service person in the diagnosis of a problem and the corrective action to be taken.

Start Fire Problems	Possible Cause	Solution	
	Not enough kindling/paper or no kindling/paper	Use dry kindling, more paper. Arrange kindling & wood for air movement.	
		Check for restricted termination cap	
		Check for blockage of outside air kit (if installed).	
	Not enough air for fire to ignite	Check for flue blockage.	
	Not enough all for the to ignite	Pre-warm flue before starting fire.	
Can not get fire started Excessive smoke spillage		Check for adequate vent height (refer to Chimney Height Section).	
Burns too slowly		Refer to Negative Pressure section	
Not enough heat output	Wood condition is too wet, too large	Use dry, seasoned wood (refer to Wood Burning Operation).	
	Bed of coals not established before adding wood	Start with paper & kindling to establish bed of coals (refer to Wood Burning Operation).	
	Flue blockage such as birds' nests or leaves in termination cap	Have chimney inspected for creosote and cleaned by a certified chimney sweep.	
	Down draft or negative pressure Competition with exhaust devices	Do not use exhaust fans during start-up (refer to Negative Pressure Section).	
		Mix in hardwood.	
	Extremely dry or soft wood	Mix in larger pieces of wood after fire is established.	
Fire burns too fast		Check for correct vent height; too much vertical height creates overdrafting.	
	Overdrafting	Check location of vent termination (refer to Chimney Termination Requirement Section in Installation Manual).	
Low Heat Output	v Heat Output Coal Bed too small		
Excessive Coal Bed	Operating on high for extended periods	Reduce burn rate and allow coals to burn down before reloading.	

Contact your dealer for additional information regarding operation and troubleshooting. Visit www.vermontcastings.com to locate a dealer.



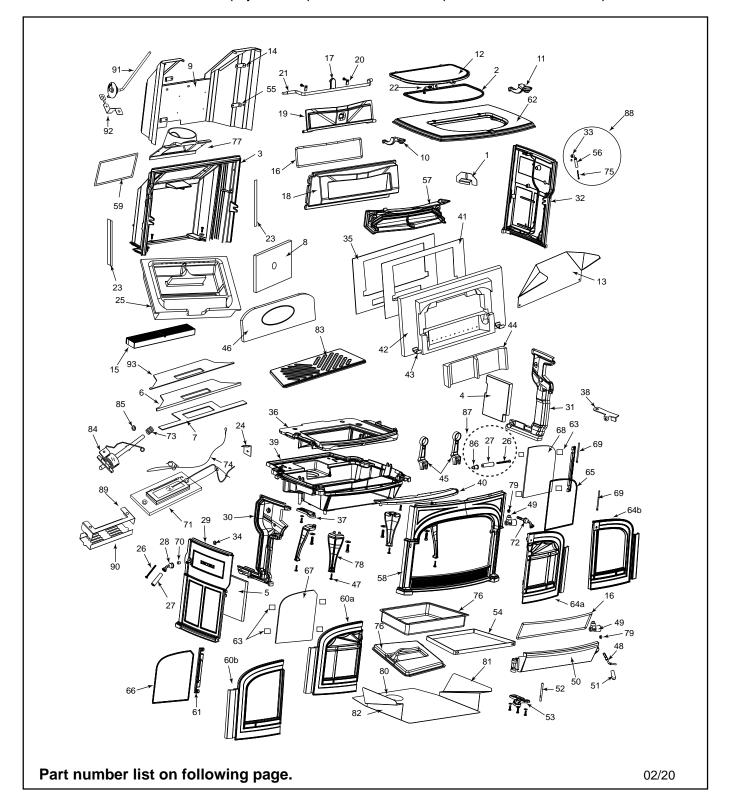
A. Service & Maintenance Log

Date of Service	Performed By	Description of Service
	-	

Encore CAT-C

Beginning Manufacturing Date: Mar 2019 Ending Manufacturing Date: Active

2040-CAT-C (Classic Black) 2041-CAT-C (Biscuit) 2042-CAT-C (Majolica Brown) 2044-CAT-C (Bordeaux) 2046-CAT-C (Twilight) 2040T-CAT-C (Classic Black w/TransitionDoors)



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

	al number when requesting service parts from your deale			at Depot
ITEM	DESCRIPTION	COMMENTS	PART NUMBER	
1	Brick Support Bracket		30005279	
2	Griddle Gasket, 10'		1-00-1203668	Y
3	Back		30005289A	
4	Refractory Right End		30005497	
5	Refractory Left End		30005498	
6	Refractory Support		30005233	
7	Gasket, Refractory Support		30005237	
8	Back Insulation Board		30005269	
9	Outer Back		30005261	
10	Left Griddle Quadrant		30002399A	
11	Right Griddle Quadrant		30002401A	
12	Griddle		30002386A	
13	HS Flue Collar		30005266	
14	Bracket Upper Side		30005267	
15	Catalyst, Ceramic		30006623	
16	Damper Gasket, 15'		1-00-1203588	Υ
17	Damper Ramp		2-00-1301811S	Υ
18	Damper Housing		30005293A	
19	Damper		30006467	
20	Damper Tab	Pkg of 10	1601488-10	
21	Damper Rod		1600851	
22	Griddle Handle Assembly		30002775	Υ
23	Gasket, Back Refractory, 10'		1-00-30005270	
24	Rheostat Bracket		30002863	
25	Refractory, Engine - E/D		30005202	
26	Damper Handle Screw (Qty 2 req)	Pkg of 10	1201310-10	
27	Damper Handle	Qty 2 req	1600664	Υ
28	Damper Handle w/Screw		30002720A	Υ
		Classic Black	30002388A	
		Biscuit	SRV30003052	
		Bordeaux	SRV30006679	
29	Left Side	Ebony	SRV30003072	
		Majolica Brown	SRV30004876	
		Twilight	SRV30007027	
30	Left Air Manifold		30002408	
31	Right Air Manifold		30005290	

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Stocked at Depot

	al number when requesting service parts from your dealer or distr			at Depot
ITEM	DESCRIPTION	COMMENTS	PART NUMBER	
		Classic Black	30002405A	
		Biscuit	SRV30003053	
32	Right Side	Bordeaux	SRV30006680	
52	Night Side	Ebony	SRV30003073	
		Majolica Brown	SRV30004877	
		Twilight	SRV30007028	
33	Thermostat Handle Base		30002716	Υ
34	Washer Damper Rod	Pkg of 10	30007257-10	
35	Refractory Gasket Plate, S/S		SRV8000-008	
36	Inner Bottom		30005291	
37	Ashdoor Hinge Upper		1-00-30002403	
38	Door Handle Bracket		30002909	
39	Bottom Outer		30007510A	
		Classic Black	30002402A	
	Ashlip	Biscuit	SRV30003051	
40		Bordeaux	SRV30006678	
40		Ebony	SRV30003071	
		Majolica Brown	SRV30004862	
		Twilight	SRV30007026	
41	Gasket, Fireback		30005209	
42	Refractory, Fireback		30005302	
43	Retainer, Fireback Refractory	Qty 2 req	30005248	
44	Refractory, Inner Cover		30005205	Υ
45	Andiron		30002397A	Υ
46	Refractory, Access Cover		30007251	
47	Leg Leveler	Pkg of 10	1201745-10	
48	Ashdoor Handle Shaft		1600622	
49	Pawl Assembly	Qty 2 req	30005157	Υ
50	Ashdoor		30002392A	
51	Ashdoor Handle (Wood)		1600663	Y
52	Hinge Hardware		1-00-2473	
53	Ashdoor Hinge Lower		1-00-30002404	
54	Ashpan Bracket		1601039	
55	Lower Side Bracket		30005268	
56	Thermostat Handle		1600660	Υ
57	Front Manifold	1	30002407	

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Stocked at Depot

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Biscuit	ITEM	DESCRIPTION	COMMENTS	PART NUMBER	
Front Bordeaux SRV30006881 Ebony SRV30003074			Classic Black	30002393A	
Ebony SRV30003074 Majolica Brown SRV30004878 Twilight SRV30004878 Twilight SRV30004878 SRV30007029 SRV30007029 SRV30007029 SRV30007029 SRV30007029 SRV30002422 SRV30002422 SRV30003938A Biscuit SRV30003938A Biscuit SRV30003958 SRV30003952 SRV30003952 SRV30003952 SRV30003952 SRV30003952 SRV30003952 SRV30007033 SRV30007033 SRV30007033 SRV30007033 SRV30007033 SRV30003974 SRV30003974 SRV30003974 SRV30003974 SRV30003974 SRV30003978 SRV30003988 SRV30003988 SRV30003988 SRV30003988 SRV30003988 SRV30003988 SRV3000702 SRV3000702 SRV30007083 SRV30007083 SRV30007083 SRV30007085 SRV30007085 SRV30007085 SRV30007085 SRV30007107 SRV			Biscuit	SRV30003054	
Ebony SRY30003074	5 0	Front	Bordeaux	SRV30006681	
Twilight SRV30007029	56	FIOR	Ebony	SRV30003074	
Flue Collar Gasket			Majolica Brown	SRV30004878	
Left Door (Shell Enamel Parts) Classic Black SRV30003938A Biscuit SRV30003958 SRV30006685 Ebony SRV30006685 Ebony SRV30003962 Majolica Brown SRV30004884 Twilight SRV30007033 Classic Black 30003974 Biscuit 30003984 Biscuit 30003984 Biscuit 30003984 Biscuit 30003988 Majolica Brown 30003988 Majolica Brown 30004882 Twilight 30007072 Classic Black 30007072 Classic Black 30007081A Biscuit SRV30007083 Biscuit SRV30007083 Biscuit SRV30007087 Majolica Brown SRV30007085 Twilight SRV30007085 Twilight SRV30007085 Twilight SRV30007107 Classic Black 30007167 Biscuit 30007167 Biscuit 30007167 Bordeaux 30007167 Bordeaux 30007167 Twilight 30007173 Majolica Brown 30007171 Twilight 30007173 Classic Black 3000			Twilight	SRV30007029	
Biscuit	59	Flue Collar Gasket	15 Ft	1-00-30002422	
Bordeaux SRV30006685			Classic Black	30003938A	
Ebony SRV30003962			Biscuit	SRV30003958	
Ebony SRV30003962		Left Deer (Chall France) Derte)	Bordeaux	SRV30006685	
Twilight SRV30007033		Leπ Door (Sneil Enamei Parts)	Ebony	SRV30003962	
Classic Black 30003974 Biscuit 30003984 Bordeaux 30006887 Ebony 30003988 Majolica Brown 30004882 Twilight 30007072 Classic Black Biscuit SRV30007083 Bordeaux SRV30007083 Bordeaux SRV30007087 Majolica Brown SRV30007087 Majolica Brown SRV30007107 Classic Black 30007167 Classic Black 30007167 SRV30007107 Classic Black 30007167 Bordeaux 30007167 Bordeaux 30007167 Majolica Brown 30007167 Majolica Brown 30007171 Twilight 30007173 Classic Black 30007173 Majolica Brown 30007173 Classic Black 30007173 Majolica Brown 30007173 Classic Black 30007173 Majolica Brown 30007173 Classic Black 30007			Majolica Brown	SRV30004884	
Left Door Sub Assembly (Shell Enamel Parts) (Does not contain glass or glass gasket) Biscuit 30003984	004		Twilight	SRV30007033	
Left Door Sub Assembly (Shell Enamel Parts) (Does not contain glass or glass gasket) Bordeaux 30006687 Ebony 30003988 Majolica Brown 30004882 Twilight 30007072 Classic Black 30007081A Biscuit SRV30007083 Bordeaux SRV30007087 Majolica Brown SRV30007085 Twilight SRV30007085 Twilight SRV30007107 Classic Black 30007165 Biscuit 30007167 Bordeaux 30007167 Bordeaux 30007167 Bordeaux 30007171 Twilight 30007173 Classic Black 30007173 Twilight 30007173 Classic Black 30002387A Biscuit SRV30003055 Bordeaux SRV30006682 Ebony SRV30003075 Ebony SRV30003075 Majolica Brown SRV30004879 Classic Brown SRV30004879 Classic Brown	60A		Classic Black	30003974	
(Does not contain glass or glass gasket) Ebony 30003988 Majolica Brown 30004882 Twilight 30007072 Classic Black 30007081A Biscuit SRV30007083 Bordeaux SRV30007085 Twilight SRV30007085 Twilight SRV30007085 Twilight SRV30007107 Classic Black 30007165 Biscuit 30007167 Bordeaux 30007167 Bordeaux 30007167 Bordeaux 30007167 Bordeaux 30007171 Twilight 30007173 Classic Black 30007173 Classic Black 30007173 Classic Black 30002387A Biscuit SRV30003055 Bordeaux SRV30003055 Bordeaux SRV30003075 Bordeaux SRV30003075 Bordeaux SRV30003075 Bordeaux SRV30003075 Bordeaux SRV30004879 Bordeaux SRV30004			Biscuit	30003984	
(Does not contain glass or glass gasket) Ebony 30003988 Majolica Brown 30004882 Twilight 30007072 Classic Black 30007081A Biscuit SRV30007083 Bordeaux SRV30007087 Majolica Brown SRV30007085 Twilight SRV30007107 Classic Black 30007165 Biscuit 30007167 Bordeaux 30007169 Majolica Brown 30007171 Twilight 30007173 61 Door Hinge Strip 1308634A Classic Black 30002387A Biscuit SRV30003055 Bordeaux SRV30003055 Bordeaux SRV30003075 Majolica Brown SRV30004879			Bordeaux	30006687	
Twilight 30007072			Ebony	30003988	
Left Door (Transition Door Enamel) Biscuit SRV30007083 Bordeaux SRV30007087 Majolica Brown SRV30007085 Twilight SRV30007107 Classic Black 30007165 Biscuit 30007167 Bordeaux 30007167 Bordeaux 30007167 Twilight 30007171 Twilight 30007173 Classic Black 30007173 Classic Brown 30007171 Twilight 30007173 Classic Brown SRV30003055 Bordeaux SRV30003055 Bordeaux SRV30003075 Bordeaux SRV30003075 Majolica Brown SRV30004879 SRV3004879 SRV3004879 SRV3004879 SRV3004879 SRV3004879 SRV3004879 SRV3004879 SRV3004879 SRV3004870 SRV3004870 S			Majolica Brown	30004882	
Left Door (Transition Door Enamel) Biscuit SRV30007083 Bordeaux SRV30007087 Majolica Brown SRV30007085 Twilight SRV30007107 SRV30007107 SRV30007107 SRV30007107 SRV30007107 SRV30007107 SRV30007165 SRV30007167 SRV30007167 SRV30007169 Majolica Brown 30007169 Majolica Brown 30007171 Twilight 30007173 SRV30007173 SRV30003055 SRV30003055 SRV30003055 SRV30003075 SRV30003075 Majolica Brown SRV30004879 S			Twilight	30007072	
Left Door (Transition Door Enamel) Bordeaux SRV30007087 Majolica Brown SRV30007085 Twilight SRV30007107 Classic Black 30007165 Biscuit 30007167 Bordeaux 30007167 Bordeaux 30007169 Majolica Brown 30007171 Twilight 30007173 1308634A Classic Black 30002387A Biscuit SRV30003055 Bordeaux SRV30003075 Bordeaux SRV30003075 Majolica Brown SRV30004879			Classic Black	30007081A	
Majolica Brown SRV30007085 Twilight SRV30007107 Classic Black 30007165 Biscuit 30007167 Bordeaux 30007169 Majolica Brown 30007171 Twilight 30007173 Twilight 30007173 Classic Black 30007171 Twilight 30007173 Classic Black 30002387A Biscuit SRV30003055 Bordeaux SRV30006682 Ebony SRV30003075 Majolica Brown SRV30004879		Left Door (Transition Door Enamel)	Biscuit	SRV30007083	
Twilight SRV30007107			Bordeaux	SRV30007087	
Classic Black 30007165 Biscuit 30007167 Bordeaux 30007169 Majolica Brown 30007171 Twilight 30007173 Classic Black 30007171 Twilight 30007173 Classic Black 30002387A Biscuit SRV30003055 Bordeaux SRV30003075 Bordeaux SRV30003075 Majolica Brown SRV30004879			Majolica Brown	SRV30007085	
Left Door Sub Assembly (Transition Door Enamel) Biscuit 30007165	000		Twilight	SRV30007107	
Left Door Sub Assembly (Transition Door Enamel) Bordeaux 30007169 Majolica Brown 30007171 Twilight 30007173 1308634A Classic Black 30002387A Biscuit SRV30003055 Bordeaux SRV30003055 Bordeaux SRV30003075 Ebony SRV30003075 Majolica Brown SRV30004879	608		Classic Black	30007165	
Majolica Brown 30007171 Twilight 30007173 1308634A 1308634A Classic Black 30002387A Biscuit SRV30003055 Bordeaux SRV30006682 Ebony SRV30003075 Majolica Brown SRV30004879			Biscuit	30007167	
Twilight 30007173 61 Door Hinge Strip 1308634A Classic Black 30002387A Biscuit SRV30003055 Bordeaux SRV30006682 Ebony SRV30003075 Majolica Brown SRV30004879		Left Door Sub Assembly (Transition Door Enamel)	Bordeaux	30007169	
61 Door Hinge Strip 1308634A 62 Classic Black 30002387A Biscuit SRV30003055 Bordeaux SRV30006682 Ebony SRV30003075 Majolica Brown SRV30004879			Majolica Brown	30007171	
Classic Black 30002387A Biscuit SRV30003055 Bordeaux SRV30006682 Ebony SRV30003075 Majolica Brown SRV30004879			Twilight	30007173	
Biscuit SRV30003055	61	Door Hinge Strip		1308634A	
Bordeaux SRV30006682 Ebony SRV30003075 Majolica Brown SRV30004879			Classic Black	30002387A	
62 Top Ebony SRV30003075 Majolica Brown SRV30004879			Biscuit	SRV30003055	
Ebony SRV30003075 Majolica Brown SRV30004879	00		Bordeaux	SRV30006682	
	62	тор 	Ebony	SRV30003075	
Twilight SRV30007030			Majolica Brown	SRV30004879	
			Twilight	SRV30007030	

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Stocked at Depot

ITEM	DESCRIPTION	COMMENTS	PART NUMBER	at Depot
63	Glass Clip	Qty 8 req	1601394	Υ
05	Glass Clip	Classic Black	30003939A	<u> </u>
		Biscuit	SRV30003959	<u> </u>
		Bordeaux	SRV30005959 SRV30006684	
	Right Door (Shell Enamel Parts)	Ebony	SRV3000884 SRV30003963	<u> </u>
		Majolica Brown	SRV30003963	<u> </u>
		Twilight	SRV30004863 SRV30007032	
64A		Classic Black		
			30003975	
		Biscuit	30003985	
	Right Door Sub Assembly (Shell Enamel Parts) (Does not contain glass or glass gasket)	Bordeaux	30006686	
	(Does not contain glass or glass gasker)	Ebony	30003989	
		Majolica Brown	30004881	
		Twilight	30007073	1
		Classic Black	30007080A	
	Right Door (Transition Door Enamel)	Biscuit	SRV30007082	
		Bordeaux	SRV30007086	
		Majolica Brown	SRV30007084	
64B		Twilight	SRV30007106	
0.2	Right Door Sub Assembly (Transition Door Enamel)	Classic Black	30007166	
		Biscuit	30007168	
		Bordeaux	30007170	
		Majolica Brown	30007172	
		Twilight	30007174	
65	Door Gasket, 15'		1-00-1203588	Y
66	Glass Gasket, 10'		1-00-1186258229	Y
67	Left Door Glass		30005300	
68	Right Door Glass		30005299	
69	Door Hinge Pin	Qty 2 req	30002727	Y
70	Spacer (for Damper Rod)	Pkg of 10	1201779-10	
71	Primary Air Valve Assembly		30005324	
	Primary Air Frame		1307411	
	Primary Air Rod		30005260	
72	Front Door Handle and Shaft		30002717	Υ
73	Thermostat Friction Spring	Pkg of 10	1201846-10	
74	Thermostat Cable		5005471	Υ
75	Thermostat Handle Bolt	Pkg of 10	1201243-10	

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Stocked at Depot

ITEM	DESCRIPTION	COMMENTS	PART NUMBER	at Depot
76	Ash Pan Assembly	COMMENTS	5005746	
70	Asir Fair Assembly	Classic Black	0001580	
		Biscuit	0001580	
		Bordeaux	SRV30006683	
	Flue Collar, 6" Round	Ebony	SRV3000083	
		Majolica Brown	0001589	
		Twilight	SRV30007031	
77		Classic Black	0000555	
		Biscuit	0000556	
		Bordeaux	0000560	
	Flue Collar, 8" Oval		SRV30003032	
		Ebony Majolica Brown	0000557	
		Twilight Classic Black	0000561 30002396A	
	Single Leg	Biscuit		
		Bordeaux	SRV30003050 SRV30006677	
78				
		Ebony Majolica Proves	SRV30003070 SRV30004874	
		Majolica Brown		
70	Hay Haad Jam Nut (Oty 2 rag)	Twilight	SRV30007025	
79	Hex Head Jam Nut (Qty 2 req)	Pkg of 10	1203290-10	
80	Bottom Heat Shield		30002470	1
81	Bottom Heat Shield Right Wing		30005030	
82	Bottom Heat Shield Left Wing		30005031	
83	Grate Bottom		30005294	
84	Thermostat Assembly	DI (4 0	5005470	
85	Washer	Pkg of 10	1202471-10	
86	Handle Base Sub		30002714	
87	Fallaway Handle Complete		30004175K	
88	Thermostat Handle Assembly		30007067	
89	Primary Air Cover		30007069	
90	Primary Air Base		30007071	
91	Temperature Probe		30007274	
92	Bracket, Temperature Probe		30007278	
00	Tempertature Probe Assembly		30007283A	1
93	Gasket, Ceramic Fiber		SRV30007513	+
	Finish Bag		SRV30007514	

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Stocked at Depot

ITEM	DESCRIPTION	COMMENTS	PART NUMBER	at Depot
	DESCRIPTION	Classic Black		
			0000200	
	W : O KIC	Biscuit	0000205	
	Warming Shelf Kit	Bordeaux	0000199	
		Majolica Brown	0000208	
		Twilight	0000198	
		Classic Black	30002477A	
	Shelf	Biscuit	SRV30003094	
		Bordeaux	SRV30006689	
		Majolica Brown	SRV30004850	
		Twilight	SRV30007074	
	Dragon Bracket	Classic Black	1302220A	
		Biscuit	SRV30002948	
		Bordeaux	30006690A	
		Majolica Brown	SRV30004818	
		Twilight	SRV30007075	
	Bracket, Left		30002478A	
	Bracket, Right		30002479A	
				1



CONTACT INFORMATION

Hearth & Home Technologies 352 Mountain House Road Halifax, PA 17032

Please contact your Vermont Castings dealer with any questions or concerns. For the number of your nearest Vermont Castings dealer log onto www.vermontcastings.com

CAUTION

DO NOT DISCARD THIS MANUAL



and maintenance

instructions included.

- follow these instructions for safe installation and operation.
- Important operating 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.

Date purchased/installed:	
Serial Number:	Location on appliance:
Dealership purchased from:	Dealer phone:
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.

