



42 Apex NexGen-Hybrid Owner's Manual



SAFETY NOTICE:

If this appliance is not properly installed, a house fire may result. For your safety, follow the installation directions. Contact local building or fire officials about restrictions and installation inspection requirements in your area.

French language manual can be found at fireplacex.com
Les manuel en français sont disponibles sur fireplacex.com



**TRAVIS INDUSTRIES
HOUSE OF FIRE**

12521 Harbour Reach Drive
Mukilteo, WA 98275

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\$10.00 100-01578
www.travisproducts.com



Listed by
Omni-Test Laboratories, Inc.
Report # 0028WF102S, 0028WF134E
Tested to: UL 127-2015, ULC S610-M87 (R1998)

Introduction

We welcome you as a new owner of a Fireplace Xtordinaire wood fireplace. In purchasing a Fireplace Xtordinaire you have joined the growing ranks of concerned individuals whose selection of an energy system reflects both a concern for the environment and aesthetics. The Fireplace Xtordinaire is one of the finest home heaters the world over. This manual will explain the installation, operation, and maintenance of this fireplace. Please familiarize yourself with the Owner's Manual before operating your heater and save the manual for future reference. Included are helpful hints and suggestions which will make the operation and maintenance of your new fireplace an easier and more enjoyable experience. We offer our continual support and guidance to help you achieve the maximum benefit and enjoyment from your heater.



OMNI-Test Laboratories, Inc.
Report No. 0028WF1028, 0028WF134E
Certified for USA and Canada

DO NOT REMOVE THIS LABEL

CONTACT LOCAL BUILDING OR FIRE OFFICIALS ABOUT INSTALLATION AND RESTRICTIONS IN YOUR AREA.
LISTED FACTORY-BUILT FIREPLACE



MODEL:
**42 Apex
Nex-Gen Hybrid**

SERIAL NO:

CONFORMS TO UL STD 127; CERTIFIED TO CAN/ULC STD S610

This wood heater contains a catalytic combustor, where both need periodic inspection and replacement for proper operation. Consult the owner's manual for further information. It is against federal regulations to operate this wood heater in a manner inconsistent with operating instructions in the owner's manual, or if the catalytic element is deactivated or removed. CAUTION: the combustor used in this appliance (part no. 250-00556) is fragile and must be handled carefully. Burning of metal foils, plastic, garbage, sulphur and diesel oil will render the catalyst in the combustor inactive. The performance and durability of the catalytic combustor has not been evaluated as part of the certification. Do not use a fireplace insert or other products not specified for use with this product. This fireplace has not been tested with an unvented gas log set. To reduce the risk of fire or injury, do not install an unvented gas log set into fireplace. Fireplace must use combustion air drawn from outside the house. Use cord wood only. DO NOT OVERFIRE UNIT.

Approved chimney: Simpson Duravent 7" Duravent DuraPlus HTC & Simpson Duravent 8"X12" sold through Travis Industries

Replace glass only with 5mm neoceramic or ceramic glass.

Electrical Rating: 115V, 60 Hz, 1.8 Amps
Optional Green Start: # 9440953
Blower: # 99400954

U.S. ENVIRONMENTAL PROTECTION AGENCY
Certified to comply with 2020 particulate emission standards using crib wood.
1.2 g/h, ASTM E2780-11, ASTM 2515-11, CSA B415.1-10



Manufactured by:
TRAVIS INDUSTRIES, INC.
12521 Harbour Reach Drive
Mukilteo, WA 98275
www.travisproducts.com

DATE OF MANUFACTURE

<input type="checkbox"/> 2022	<input type="checkbox"/> 2023	<input type="checkbox"/> 2024	<input type="checkbox"/> 2025	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec
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Made in U.S.A.

XXXX



**42 Apex
Nex-Gen Hybrid**

U.S. ENVIRONMENTAL PROTECTION AGENCY
Certified to comply with 2020 particulate emission standards using crib wood.
1.2 g/h, ASTM E2780-11, ASTM 2515-11, CSA B415.1-10

Serial No. **ZC-1203**

This wood heater contains a catalytic combustor, where both need periodic inspection and replacement for proper operation. Consult the owner's manual for further information. It is against federal regulations to operate this wood heater in a manner inconsistent with operating instructions in the owner's manual, or if the catalytic element is deactivated or removed. See installation and operating instructions for this model.

XXXX

Manufactured By: TRAVIS INDUSTRIES, INC.
12521 Harbour Reach Drive, Mukilteo, WA 98275

MANUFACTURE DATE:

<input type="checkbox"/> 2022	<input type="checkbox"/> JAN	<input type="checkbox"/> APR	<input type="checkbox"/> JUL	<input type="checkbox"/> OCT
<input type="checkbox"/> 2023	<input type="checkbox"/> FEB	<input type="checkbox"/> MAY	<input type="checkbox"/> AUG	<input type="checkbox"/> NOV
<input type="checkbox"/> 2024	<input type="checkbox"/> MAR	<input type="checkbox"/> JUN	<input type="checkbox"/> SEP	<input type="checkbox"/> DEC

Important Information

No other Fireplace Xtordinaire wood fireplace has the same serial number as yours. The serial number is behind the left side door just inside the firebox.

This serial number will be needed in case you require service of any type.

Model: 42 Apex NexGen-Hybrid

Serial Number: _____

Purchase Date: _____

Purchased From: _____

Register your warranty online at:

traviswarranty.com

To receive full warranty coverage, you will need to show evidence of the date you purchased your heater.

We suggest that you attach your Bill of Sale to this page so that you will have all the information you need in one place should the need for service or information occur.

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Specifications



- This fireplace must be installed by a qualified installer. Installation instructions are shipped inside the fireplace and must be strictly adhered to.



- Contact your local building officials to obtain a permit and information on installation restrictions or inspection requirements in your area. Notify your insurance company of this fireplace.



- This fireplace is designed and listed for cord wood only. Burning of any other material will void the warranty and listing and may create a fire hazard.



- Never use gasoline, gasoline-type lantern fuel, kerosene, charcoal lighter fluid, or similar liquids to start or 'freshen up' a fire in this fireplace. Keep all such liquids well away from the fireplace while it is in use.



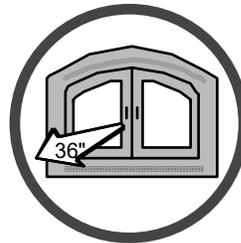
- The door(s) must be closed and latched during operation. Open the door(s) only when re-loading the fireplace or conducting maintenance. This prevents smoke, embers from entering the room.



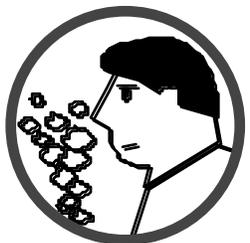
- Do not touch the hot surfaces of the fireplace. Educate all children of the danger of a high-temperature fireplace. Young children should be supervised when they are in the same room as the fireplace.



- Ashes must be disposed of in a metal container with a tight fitting lid. Place the container on a non-combustible surface until the ashes have fully cooled before final disposal.



- Keep all furniture or other combustible items at least 36" away from the front of the fireplace (this includes drapes or doors that may swing within 36" of the front of fireplace).



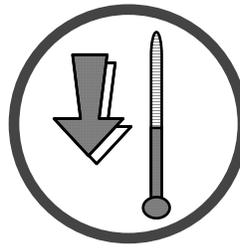
- If you smell smoke, see the section "Smoke Smell in Home" on page 13 of this manual for a remedy.



- Do not place clothing or other flammable items on or near the fireplace.
- Never block free airflow through the vents.



Do not repair, alter, or replace any part of the fireplace and chimney unless instructions are given in this manual. All other work must be done by a qualified service person.



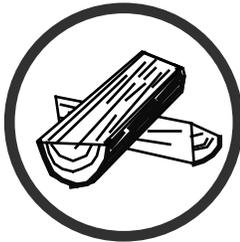
Allow the fireplace to cool before carrying out any maintenance or cleaning.



The chimney must be inspected twice a year for creosote build-up or chimney damage. Creosote build-up must be removed and damage fixed prior to using the fireplace.



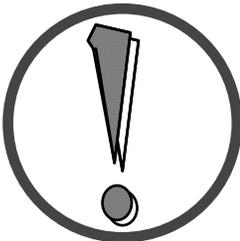
Do not throw this manual away. This manual has important operating and maintenance instructions that you will need at a later time. Always follow the instructions in this manual.



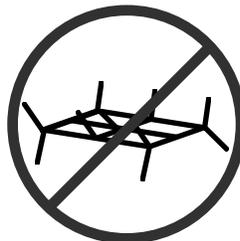
This fireplace was designed to burn solid wood fuel only (cord wood). Never use treated wood, wax logs, coal, garbage, or other materials. These materials will void the safety listing and may damage the combustor.



This wood heater 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 wood heater in a manner inconsistent with operating instructions in this manual.



Travis Industries, Inc. grants no warranty, implied or stated, for the installation or maintenance of your fireplace, and assumes no responsibility of any consequential damage(s).



Do not use a grate or other device to elevate the fire off of the firebox floor. Burn the fire directly on the firebox floor.

Smoke and CO Detectors: Make sure your home has a working smoke detector, especially near any bedrooms. We recommend having a smoke and/or CO detector in the same room as the wood heater for additional safety.

Proposition 65 Warning: Fuels used in gas, woodburning 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

Travis Wood Burning Fireplaces, Stoves and Inserts are protected by one or more of the following patents; U.S. 9,170,025 4,665,889 as well as other U.S. and Foreign Patents pending.

This wood heater contains a catalytic combustor, which needs periodic inspection and replacement for proper operation. It is against federal regulations to operate this wood heater in a manner inconsistent with operating instructions in this manual, or if the catalytic element is deactivated or removed.

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.

Features:

- Long burn time – up to 12 hours
- Large glass door for maximum visibility
- Full firebrick lining for firebox protection

Heating Specifications

Approximate Heating Capacity (in square feet)*	Up to 2,500
Maximum Burning Time	Up to 14 hours
EPA Tested Crib Wood BTUs per Hour **	7,660 to 40,275
BTUs per hour using cord wood	13,500 to 50,000

* Heating capacity will vary depending on the home's floor plan, degree of insulation, and the outside temperature. It is also affected by the quality and moisture level of the fuel.

** EPA tests to determine BTU output are performed with a single standardized load of dimensional lumber (crib fuel). When burning cord wood, the fireplace will achieve higher BTUs. The BTU output of the fireplace can be higher than the numbers established during EPA testing depending upon the quantity and species of wood being burned. Based on our in-house testing using cord wood, real world BTUs will typically fall between the cord wood numbers listed above.

This model was tested for efficiency using method B415.1-10 and was determined to have a weighted average Higher Heating Value (HHV) Overall Heating Efficiency (OHE) of 77.2%. Overall efficiency of the heater may be lower if the heater is operated without a heat exchange blower or with the installed heat exchange blower turned off.

The location of your wood heater in your home will decide how effectively the heat produced will spread throughout your house. Attention to the home design with consideration of natural convection and air circulation should be taken into account when choosing the placement of your heater within the home

Electrical Specifications:

The blower on "HIGH" draws 1.8 Amps on 120 Volts A.C. (approximately 130 watts).

Emissions

This heater meets the 2020 U.S. EPA's crib wood emission limits for wood heaters. Tested to ASTM E2780-10, ASTM 2515-11, CSA B415.1-10 this heater has been shown to deliver heat at rates ranging 7,660 to 40,275 BTU/hr and an emission value of 1.2 g/h. Report No. 0028WF134E



Safety Notice:

- **If this appliance is not properly installed, a house fire may result. For your safety, follow the installation directions. Contact local building or fire officials about restrictions and installation inspection requirements in your area.**
- **Read and follow all of the warnings on pages 2 and 3 of this manual.**

Before Your First Fire

Verify the Installation

Before starting the fireplace, verify that the fireplace is properly installed and all of the requirements in the **42 Apex Installation** Manual have been followed.

Keep all flammables 48" away from the front of the fireplace (drapes, furniture, clothing, etc.).

A fireplace insert shall not be installed in a factory-built fireplace unless tested with the fireplace.

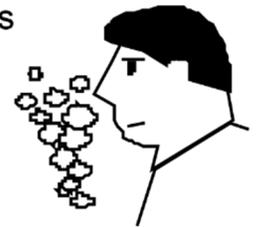
Curing the Paint

Follow the steps below to cure the paint (first fire):

- a) Open doors and windows in the room to ventilate the heater during the curing process.
- b) Vacate the room. The fumes from the initial heating process are non-toxic but may be unpleasant.
- c) Slowly bring the heater to a medium burn (400°F/204°C) for 45 minutes. Then increase the burn temperature to a hot burn (600°F/315°C) for an additional 45 minutes. This will cure the paint.

Door Gasket - The door gasket can adhere to the paint on the front of the heater. To prevent this, carefully open and close the door a few times during the paint curing process.

2 to 4 hours



IDB1135

Carbon Monoxide (CO) Emissions

Smoke from wood heaters contains CO. This gas is an indication of incomplete combustion and is detrimental to the environment and your health. The more visible the smoke, the higher the CO levels. Burning dry wood is the most significant step you can take to reduce CO emissions. It is also important to understand the combustion process so you can burn your heater efficiently. Read the manual thoroughly so that you can operate your heater in the most efficient and clean manner possible.

Over-Firing the Fireplace (Over-Firing may void your warranty)

DO NOT OVERFIRE THIS HEATER: Attempts to achieve heat output rates that exceed heater design specifications can result in permanent damage to the heater.

This fireplace was designed to operate at a high temperature. But due to differences in vent configuration, fuel, and draft, this appliance can be operated at an excessive temperature. If the area behind the faceplate or other area starts to glow red, you are over-firing the fireplace (this may damage the internal components and void the warranty). Do not burn excessively large fires for a long time. Shut the air control down and allow the fireplace to cool if you detect over-firing.

Operating the Fireplace During a Power Outage

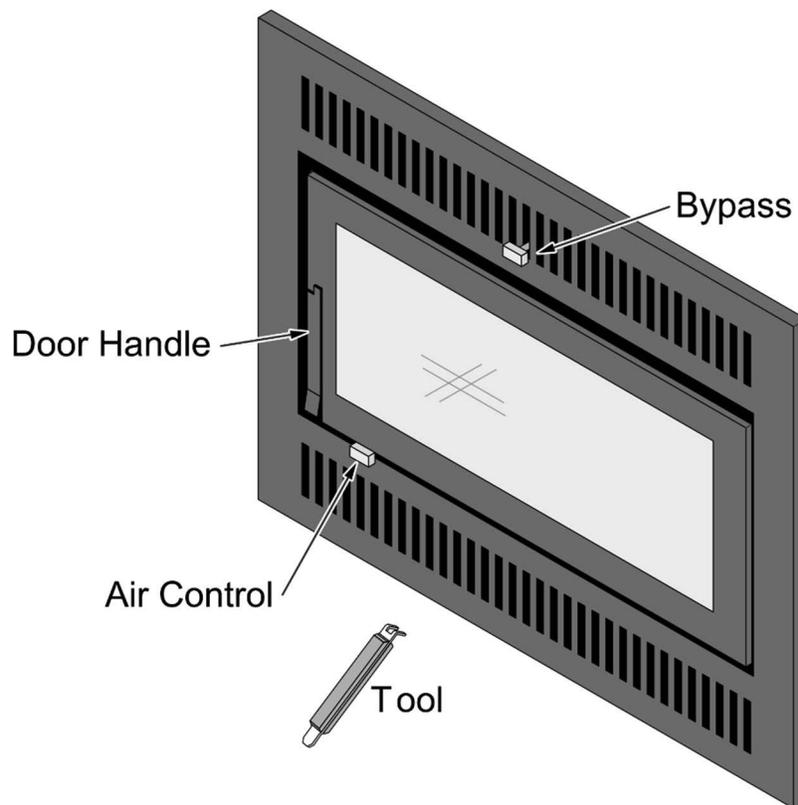
This fireplace includes a blower to dissipate heat from the firebox. During power outages build small to medium-sized fires to prevent the fireplace from overheating.

Drafting Performance

Draft is the force that moves air from the appliance up through the chimney. The amount of draft in your chimney depends on the length of the chimney, local geography, nearby obstructions, and other factors. Too much draft may cause excessive temperatures in the appliance and may damage the heater. Inadequate draft may cause backpuffing into the room and 'plugging' of the chimney. Inadequate draft will cause the appliance to leak smoke into the room through appliance and chimney connector joints. An uncontrollable burn or excessive temperature indicates excessive draft.

WARNING: THIS FIREPLACE HAS NOT BEEN TESTED WITH AN UNVENTED GAS LOG SET. TO REDUCE THE RISK OF FIRE OR INJURY, DO NOT INSTALL AN UNVENTED GAS LOG SET INTO THIS FIREPLACE.

Location of Controls



Bypass – This controls the bypass. When open (pulled out), smoke travels directly up the chimney, lessening the chance of smoke spillage.

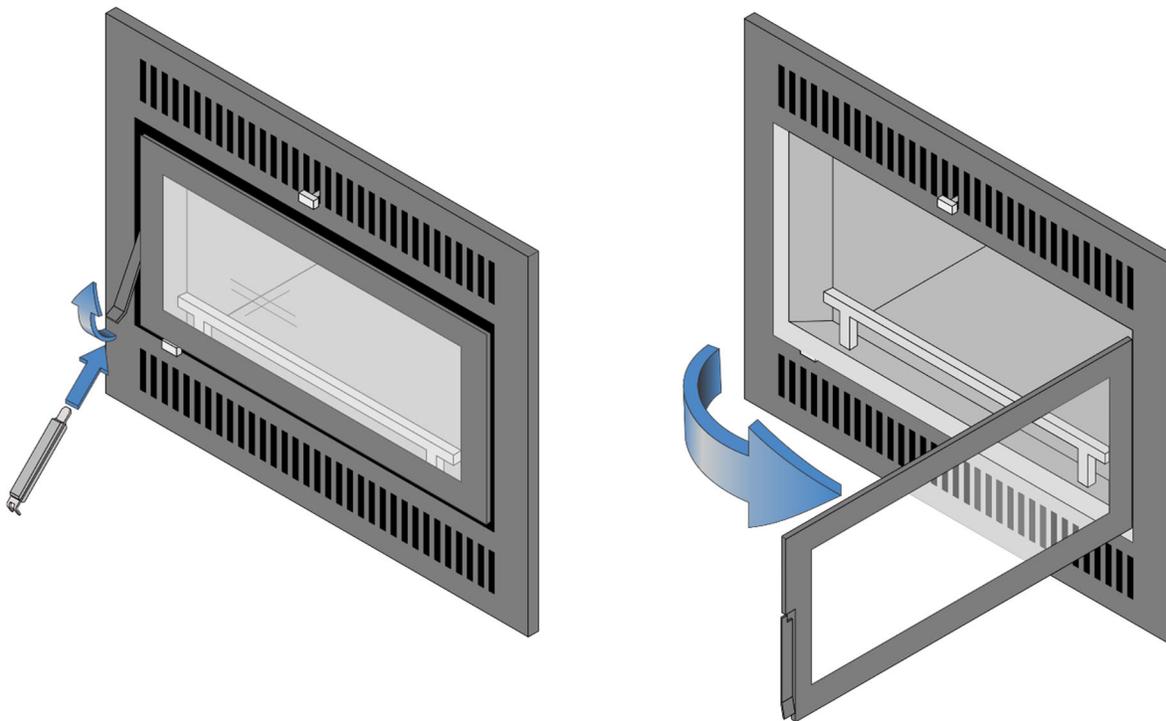
Door Handle – The door handle locks the door shut.

Air Control - This control slides left to right (or anywhere between) to alter the amount of air entering the fireplace. This, in turn, regulates the speed at which the fire burns. When slid to the right, the air control is open (fast burn). When slid to the left, the air control is closed (slow burn).

Tool – The fireplace tool is used to help open the door or slide the bypass in or out.

Opening the Door

To open the door, lift the handle and swing the door open. Use the included tool if needed to lift the handle.



Do not slam the door when closing. If the glass is damaged it must be replaced before using the fireplace.

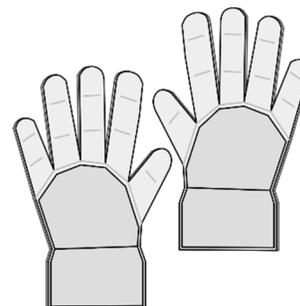
Opening the Door While the Fireplace is Hot

Open (pull out) the bypass before opening the door. This allows smoke to exit the flue directly. Use the included tool, if necessary to pull the bypass out.

To lessen smoke spillage, open the door a few inches, let air enter the door for a few seconds, then open the door fully. This allows airflow inside the firebox to stabilize.

Warning: Do not build the fire close to the glass.

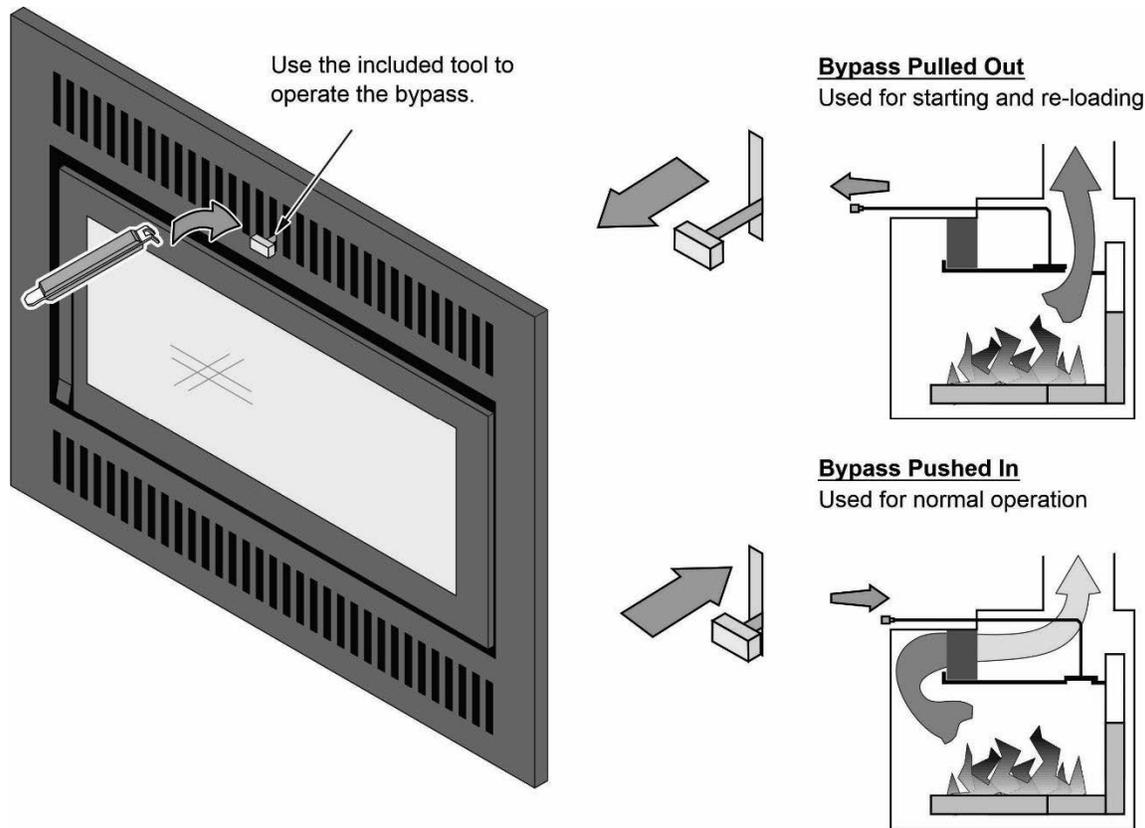
Warning: The door handle is extremely hot during operation – use the door tool or gloves when opening the door.



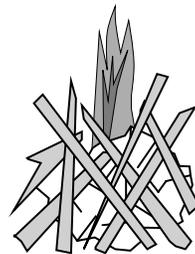
Starting a Fire

Since the dawn of time man has debated the best way to start a fire. Some use the boy-scout "tee-pee", and some prefer the "tic-tac-toe" stack. Either way, review the hints and warnings below to ensure proper fire starting. See page 14 for detailed instructions on burning your fireplace.

- Make sure the by-pass is open while starting a fire (leave it open for the first 15 minutes).



- Make sure the air control is on high. If additional air is needed, open the doors 1/4" during the first five minutes of start-up.
- If the smoke does not pass up the chimney, ball up one sheet of newspaper, place it in the center of the smoke shelf, and light it. This should start the chimney drafting (this eliminates "cold air blockage").
- **Never** use gasoline, gasoline-type lantern fuel, kerosene, charcoal lighter fluid, or similar liquids to start or "freshen up" a fire in this fireplace. Keep all such liquids well away from the fireplace while it is in use.
- If using a firestarter, use only products specifically designed for fireplaces - follow the manufacturer's instructions carefully.
- Use plenty of kindling to ensure the fireplace reaches a proper temperature. Once the kindling is burning rapidly, place a few larger pieces of wood onto the fire.



Maintaining Catalytic Burn-Off

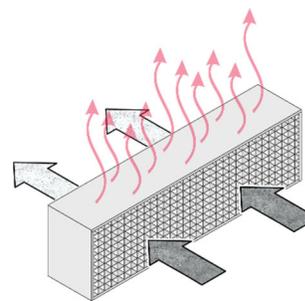
Warning:

The bypass control becomes hot during operation - use gloves or a tool to prevent burns.

This fireplace uses a catalytic combustor to increase heat transfer to the room and reduce emissions.

The catalytic combustor takes dirty smoke and turns it into extra heat and lowers emissions.

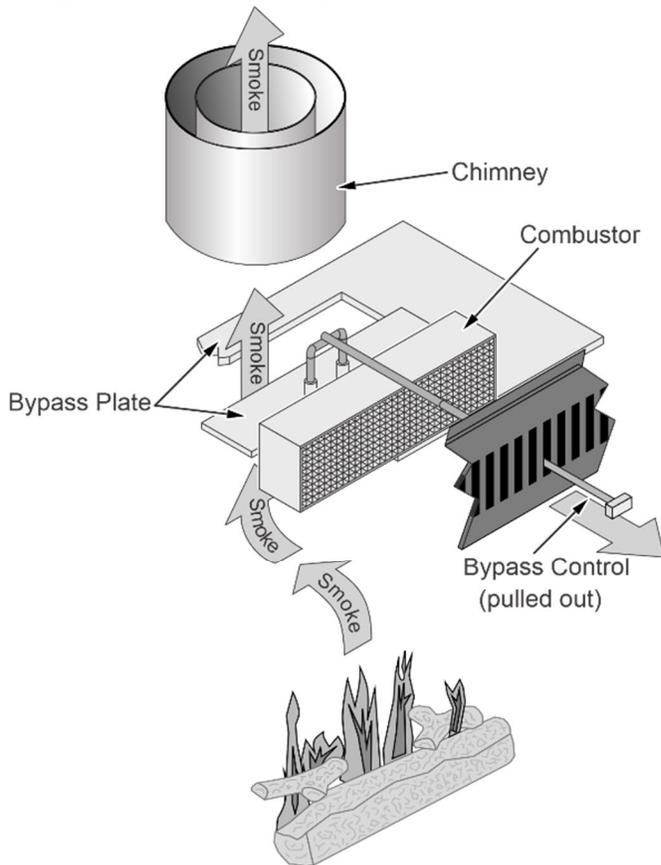
NOTE: If the combustor is engaged (bypass closed) when the fireplace is still cool, it will not work, leading to dirty smoke, no extra heat, and a plugged combustor.



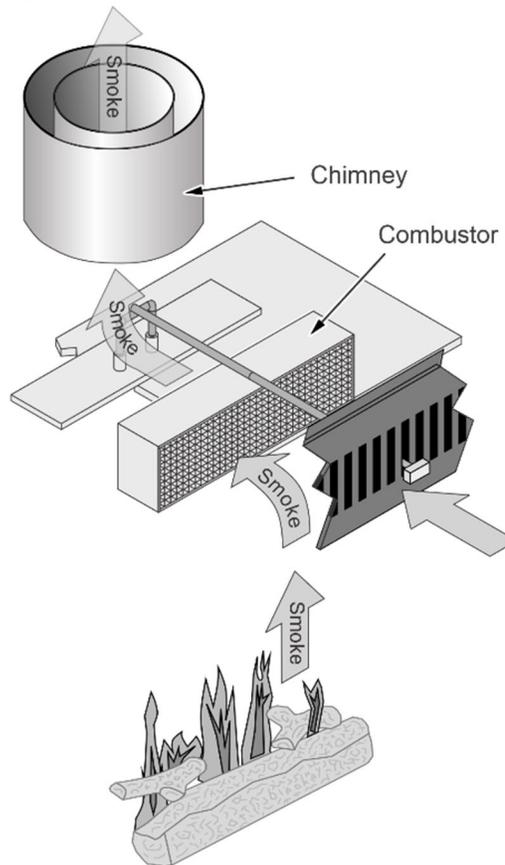
Follow the directions below to utilize the combustor to its fullest potential.

- Keep the by-pass open (pulled out) until the fireplace becomes hot (approximately 15 to 30 minutes).
- Close the by-pass (push in) when the fireplace is hot (500° F./260° C. or greater).
- Keep the by-pass closed (pushed in) while the fireplace is operating, except when re-loading.

With the bypass open (pulled out), the smoke passes through the bypass and does not go through the combustor.



With the bypass closed (pushed in), the smoke passes through the combustor.



How to Check if your Combustor is Working

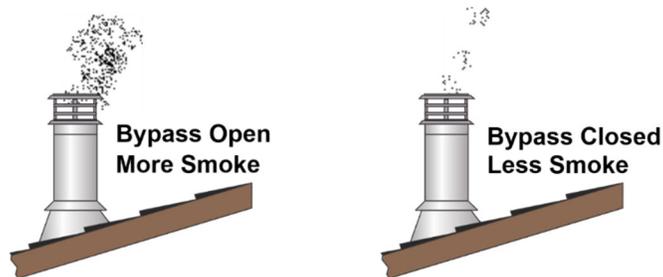
A combustor temperature probe is included with the fireplace to monitor the combustor. After the bypass is engaged, the combustor temperature should rise, showing combustor operation. Combustor temperatures over 500° F (260° C), indicate the combustor is working and igniting unburnt fuel.

The combustor can also be viewed through the glass from below. You will notice the combustor glowing red when the combustor is working effectively.

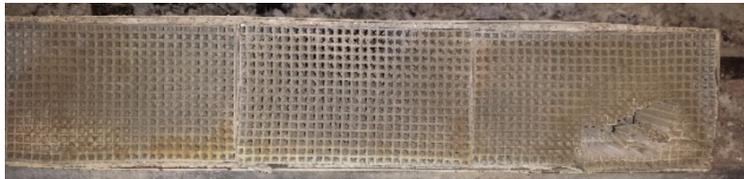
Combustor Inspection

It is important to periodically monitor the operation of the catalytic combustor to ensure that it is functioning properly and 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. Following is a list of items that should be checked periodically:

- Combustors should be visually inspected at least three times during the heating season to determine if physical degradation has occurred (e.g., catalyst peeling, plugging, thermal cracking, mechanical cracking, or masking (becoming coated with fly ash or soot) (see pictures at bottom of page). The actual removal of the combustor is not recommended unless a more detailed inspection is warranted because of decreased performance.
- This heater is equipped with a temperature probe to monitor catalyst operation. Properly functioning combustors typically maintain temperatures in excess of 500 °F and often reach temperatures in excess of 1,000 °F (see page 11 for further details).
- You can get an indication of whether the catalyst is working by comparing the amount of smoke leaving the chimney when the smoke is going through the combustor and catalyst light-off has been achieved, to the amount of smoke leaving the chimney when the smoke is not routed through the combustor (bypass mode).
 - Step 1 - Light stove in accordance with instructions starting on page 10.
 - Step 2 - With smoke routed through the catalyst, go outside and observe the emissions leaving the chimney.
 - Step 3 - Engage the bypass mechanism and again observe the emissions leaving the chimney. Significantly more smoke will be seen when the exhaust is not routed through the combustor (bypass mode).



Example of combustor Thermal Cracking



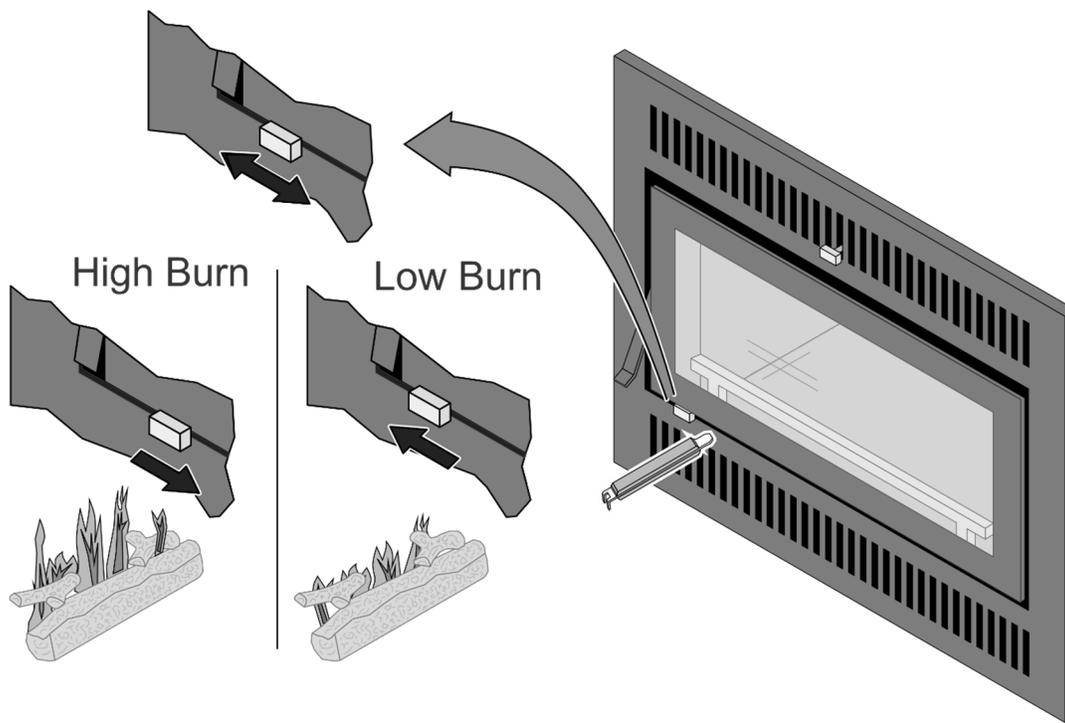
Example of combustor Masking



Adjusting the Burn Rate

Use the air control slider to control the burn rate of the fireplace. See the illustration below for details.

The included tool may be used to adjust the air control when the fireplace is hot.



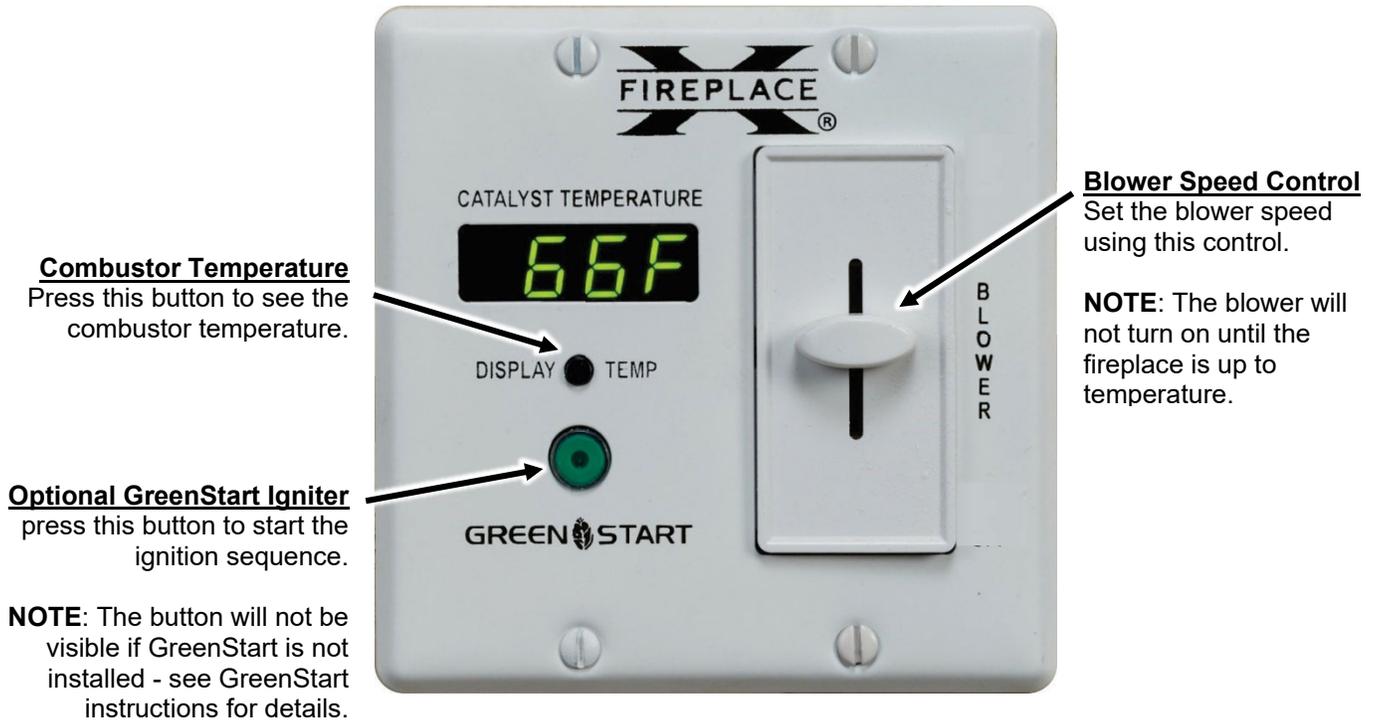
High Burn/More Air	Low Burn/Less Air
Right	Left

Approximate Air Control Settings (as tested)	<u>High Burn</u>	Full open (fully to the right)
	<u>Medium-High Burn</u>	.02" to .6" from full closed
	<u>Medium-Low Burn</u>	.02" from full closed
	<u>Overnight Burn</u>	Full closed (fully to the left)

Approximate Air Control Settings (real world conditions)	<u>High Burn</u>	Full open (fully to the right)
	<u>Medium-High Burn</u>	3/8" from full closed (fully to the left) to 7/8" from full closed (fully to the left)
	<u>Medium-Low Burn</u>	1/4" from full closed (fully to the left) to 3/8" from full closed (fully to the left)
	<u>Overnight Burn</u>	Full closed (fully to the left) to 1/4" from full closed

 The air control becomes hot during operation - use gloves or a tool to prevent burns.

 The air control may take several minutes to influence the burn rate. When making adjustments, you may wish to let the stove burn for 10 minutes to gauge performance.

Electrical Controls

Understanding Your Heater's Combustion System

This heater uses a dual combustion system detailed below:

Primary Combustion: This is the combustion (fire) that takes place directly on the wood. Primary combustion determines how fast the fire burns. Air for primary combustion is supplied through the air control. When you adjust the air control you control the amount of air that reaches the fire and creates primary combustion. The air control supplies air to the air wash (the air holes above the door opening – used to help clean the glass) and through the pilot orifice (center bottom of the door opening). By using the air control, and supplying air through these two openings, you control primary combustion.

Catalytic Combustion: This is the combustion (fire) that does not contact the wood. Catalytic combustion takes place inside the catalytic combustor and is not viewable (you may, however, see the combustor glow). It burns the visible emissions or smoke that is not consumed during primary combustion. Catalytic combustion can be monitored by using the included temperature meter. Your catalytic combustor is working when the output temperature is above 500° F. (260°C).

Items to Consider:

- During medium and high burn rates the stove will manage combustion on its own. When the heater is set to a low burn rate more care is needed to ensure the catalytic combustion system works properly. Make sure the stove is hot and a good coal bed is established before adjusting your heater to low burn.
- Understanding the combustion system in this heater will help minimize the visible emissions this heater releases into the environment. The primary pilot orifice at the center bottom of the door opening is designed to help the secondary combustion at low burn settings. The pilot provides a small amount of air that burns up through the fuel load providing the heat and flame needed for the secondary system to ignite.
- As you load your heater for a low burn, take care in placing the wood. This will affect how well your catalytic system works as the wood is consumed. Do not block the pilot orifice. Stack wood so the pilot air can burn its way up between the pieces, helping your heater burn effectively throughout the low fire. This will reduce the visible emissions your heater produces and increase the amount of heat you get from the wood. If you are unsure how well your heater is burning look at the chimney cap to monitor visible emissions.

Burning Your Heater

Starting a Fire: Make sure your air control is all the way open and the by-pass is in the open position. To reduce the amount of smoke when starting your fire, the “Top Down” method described below allows for the cleanest starts. Stack four or five layers of medium-sized kindling 16” long by 1 to 2” in diameter in a tic tac toe pattern, five pieces per layer with about ½” to ¾” spacing between pieces. On top of the kindling stack, place a nest of pencil-sized kindling. Light the small kindling on top of the stack and let the fire burn down through the wood. Using this method, the door should be able to be closed within 2 minutes after lighting the kindling and the bypass at approximately 3-4 minutes. If the fire starts to die down, reopen the door and leave it cracked open until the fire takes, recovers and becomes established. **Never leave your heater unattended if the door is not latched shut.**

Reloading: When reloading a hot stove, return the air control too high for at least 15 min before adjusting the air control to slow down the burn rate.

Reload the stove with 15” medium-sized pieces of cordwood when the kindling pile has burned about three-quarters of the way through. Use enough wood to establish a good coal bed (approximately 6 medium-sized pieces). A hot coal bed is critical to the clean combustion of the fuel. We cannot overstate the importance of a hot coal bed before slowing down the burn rate by adjusting the air control. Burn the first full load of cordwood completely through at the high burn rate to get our heater up to a good operating temperature and to establish a deep coal bed before reloading and adjusting the burn rate.

Low & Medium Burns: If preparing for a medium or low overnight burn, a longer heat-up period may be necessary. For the lowest emissions, we recommend the following method: using 15” cord wood. Load the unit full (approximately 6 large pieces) oriented front to back covering the coal bed. After loading, burn the stove on high for at least 15 minutes before setting the air control to low. Excessive creosote buildup (or sooting) in the heater at the end of a low burn signifies that the heater was not hot enough and the wood load was not burned long enough on high after loading before adjusting the air control.

Re-Loading the Fireplace

Follow the directions below to minimize smoke spillage while re-loading the fireplace.

- 1 Pull the by-pass out all the way (use the tool or a glove).
- 2 Move the air control to high.
- 3 Open the door slightly. Let the airflow inside the firebox stabilize before opening the doors fully.
- 4 Load wood onto the fire.

Overnight Burn

This fireplace is large enough to accommodate overnight, 10 to 12-hour burns. Follow the steps below to achieve an overnight burn.

- 1 Get the fireplace hot by moving the air control to high and letting the fireplace burn for 15 minutes.
- 2 Load as much wood as possible. Use large pieces if possible.
- 3 Let the fireplace burn on high for 15 minutes to keep the fireplace hot, then turn the air control to low.
- 4 In the morning the fireplace should still be hot, with embers in the coal bed. The glass may be dark – this is normal. Stir the coals and load small pieces of wood to re-ignite the fire, if desired.

NOTE: Differences in chimney height and draft may lower overall burn times.

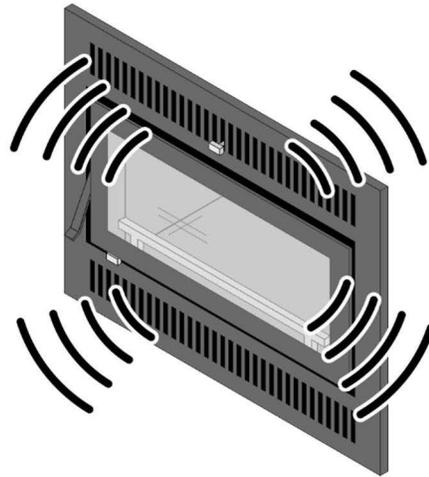
Normal Operating Sounds

Creaks and Clicks:

The steel may creak or click when the stove heats up and cools down - this is normal.

Blower Sounds:

The blower will make a slight “hum” as it pushes air through the stove



Hints for Burning

- Get the appliance hot before adjusting to low burn
- Use smaller pieces of wood during start-up and high burns to increase the temperature
- Use larger pieces of wood for overnight or sustained burns
- Stack the wood tightly together to establish a longer burn
- Be considerate of neighbors & the environment: burn dry wood only
- Burn small, intense fires instead of large, slow-burning fires when possible
- Learn your appliance's operating characteristics to obtain optimum performance

Ash Removal

Whenever ashes get 3 to 4 inches deep in your firebox, and when the fire has burned down and cooled, remove excess ash. Leave an ash bed approximately 1 inch deep on the firebox bottom to help maintain a hot charcoal bed. Let the stove cool completely before removing ashes (wait at least two hours after the last coal has been extinguished). Ashes should be placed in a metal container with a tight-fitting lid. The closed container of ashes should be placed on a noncombustible floor or the ground, away from all combustible materials, pending final disposal. The ashes should be retained in the closed container until all cinders have thoroughly cooled.



Improperly disposed of ashes lead to fires. Hot ashes placed in cardboard boxes, dumped in back yards, or stored in garages, are recipes for disaster.



Wood-burning stoves are inherently dirty. During cleaning have a vacuum ready to catch spilled ash (make sure ash is entirely extinguished).

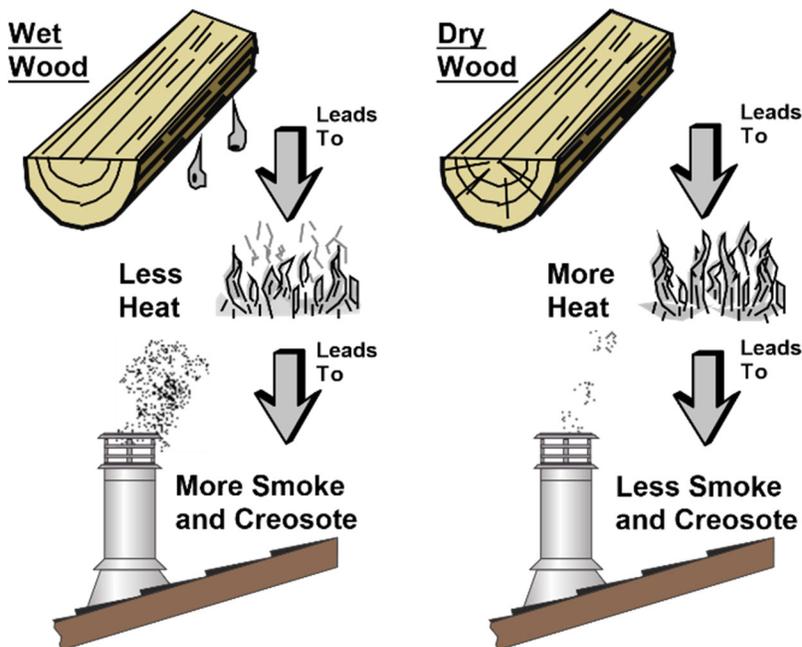


There are vacuum cleaners specifically made to remove ash (even if the ash is warm). Contact your dealer for details.

Selecting Wood

Dry Wood is Key

Dry wood burns hot, emits less smoke and creates less creosote.



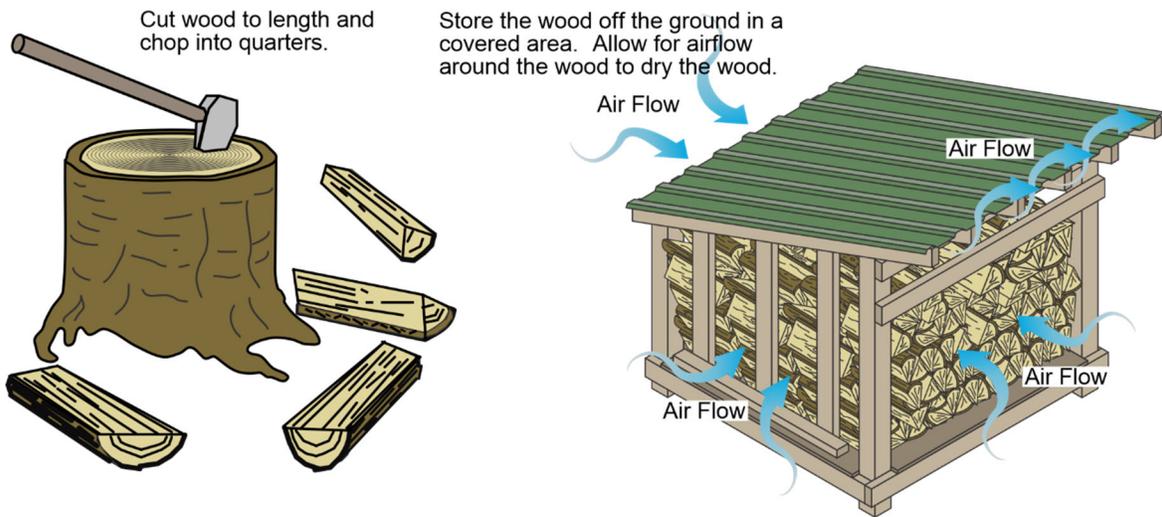
Testing Wood Moisture

Wood cut, split, and stored in a dry area will typically dry within 1 or 2 years. This ensures dry wood. If purchasing wood for immediate use, test the wood with a moisture meter. Some experienced wood burners can measure wood moisture by knocking pieces together and listening for a clear "knock" and not a "thud".

Why Dry Wood is Key

Wet wood, when burned, must release water stored within the wood. This cools the fire, creates creosote, and hampers a complete burn. Ask any experienced wood burner and he or she will agree: dry wood is crucial to good performance.

Wood Cutting and Storage



Don't Burn Treated Wood, Wax Logs, Coal, Garbage, Etc.

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

- (1) Garbage;
- (2) Lawn clippings or yard waste;
- (3) Materials containing rubber, including tires;
- (4) Materials containing plastic;
- (5) Waste petroleum products, paints or paint thinners, or asphalt products;
- (6) Materials containing asbestos;
- (7) Construction or demolition debris;
- (8) Railroad ties or pressure-treated wood;
- (9) Manure or animal remains;
- (10) Salt water driftwood or other previously salt water saturated materials;
- (11) Unseasoned wood; or
- (12) Paper products, cardboard, plywood, or particleboard. The prohibition against burning these materials does not prohibit the use of fire starters made from paper, cardboard, sawdust, wax, and similar substances for the purpose of starting a fire in an affected wood heater.

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

Troubleshooting

Problem	Possible Cause
Smoke Enters Room During Start-Up	<ul style="list-style-type: none"> • Cold Air Blockage - burn a piece of newspaper on top of the smoke shelf under the bypass opening. • By-pass is Closed - Open the by-pass by pulling the block above the door all the way out. • Close the doors - if the flame is not getting enough air, first make sure the air control is open (all the way right). If additional air is needed, a small crack in the door is all that is needed.
Kindling Does Not Start - Fire Smolders	<ul style="list-style-type: none"> • Cold Air Blockage - burn a piece of newspaper to establish a draft. • Not enough starter paper - use additional newspaper if necessary. • By-pass is Closed - Open the by-pass by pulling the ring above the door all the way out. • Not enough air - first make sure the air control is open (all the way right). If additional air is needed, a small crack in the door is all that is needed.
Smoke Enters Room While Re-Loading	<ul style="list-style-type: none"> • By-Pass not Opened - Open the by-pass (the ring above the doors) using gloves or a tool before opening the door. • Insufficient Draft - Chimney height and outside conditions can negatively affect draft. In these cases, a small amount of smoke may enter the home. Adding more pipe or a draft-inducing cap may help.
Fireplace Does Not Burn Hot Enough	<ul style="list-style-type: none"> • Wood is Wet - see the section "Selecting Wood" on page 12 for details on wood. • Insufficient Draft - Chimney height and outside conditions can negatively affect draft. In these cases, the fire may burn slowly. Adding more pipe or a draft-inducing cap may help. • Air Control is Not Wide Open - Make sure the air control is all the way to the right. Slide the control back and forth rapidly to ensure the control is not stuck.
Blower Does Not Run	<ul style="list-style-type: none"> • Fireplace is Not Up to Temperature - This is normal. The blower will come on when the fireplace is hot - usually 15 to 30 minutes. • Electricity is Cut to the Blower - Check the household breaker or fuse to make sure it is operable.
Fireplace Does Not Burn Overnight	<ul style="list-style-type: none"> • The door is not sealing - See the section "Check the Door Seal, Adjust if Necessary" on page 21 for details.

This wood heater contains a catalytic combustor, which needs periodic inspection and replacement for proper operation. It is against federal regulations to operate this wood heater in a manner inconsistent with operating instructions in this manual, or if the catalytic element is deactivated or removed.

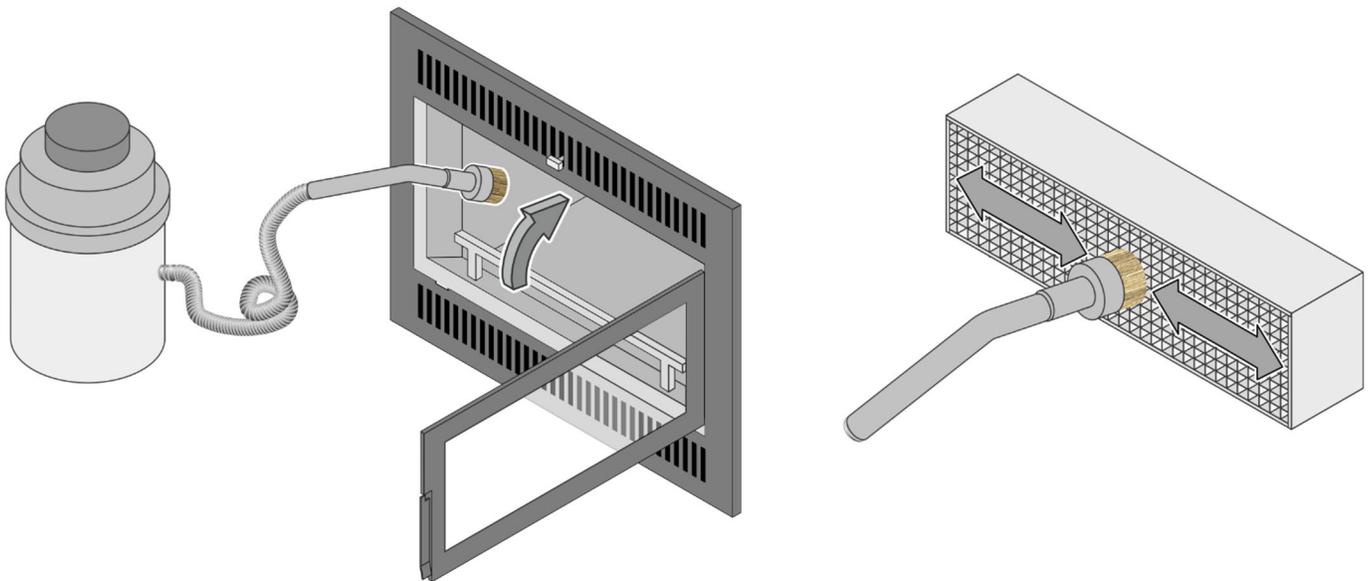
Twice Yearly Maintenance

Check Firebrick, Baffle

Verify that the firebrick and baffle are in position and not damaged (see illustration on page 26 for details).

Clean the Combustor

With the fireplace completely cool (at least two hours after the last coal has extinguished), use a vacuum cleaner, preferably with a brush, to draw all ash from the catalytic combustor (see the illustration below). **Do not strike or scrape the combustor.**



Testing your Catalyst Combustor

A combustor that is not functioning may still show active temperatures during the medium and high burn rates with the primary fire providing enough heat to hold output temperatures above 500°F. To check the combustor function burn your fireplace for at least 2-3 hours on the medium to high setting ensuring a full coal bed covers the firebox floor and the unit is at operating temperature. Set your burn rate to medium-low and monitor the catalyst output temperature. The combustor should maintain a temperature above 500°F. If your combustor temp falls below 500°F perform this test two or three times to ensure the results. If your results are the same your combustor may need cleaning or replacement. Note: If you reload your fireplace before starting your burn test, burn the new fuel load on high for at least 20 min before setting your burn rate to medium-low.

Chimney Sweep Instructions

When sweeping (cleaning) the chimney, the combustor should be removed to prevent ash from clogging the combustor openings (when replacing the combustor use a new interim gasket). The damper plate (and other upper firebox components) can be removed during the chimney sweep or vacuumed after the chimney has been swept. See the illustration on page 26 for details.

WARNING: Do not use substitute materials in the maintenance of this fireplace.

Door and Latch Inspection and Service

The door latch and door gasket work together to seal the firebox. If the door does not seal, air will leak into the firebox and cause the fire to burn too fast. This reduces the ability to burn the fireplace overnight or precisely adjust the burn rate.

Testing the Door Seal

The first indication that the door may not be sealing is when the door handle opens and closes without resistance. To test the door seal, open the door and place a dollar bill (US, Canadian, or Australian) over the door opening. Then close the door over the bill. If the bill can be slid out of the door opening without resistance, the door gasket may need to be replaced.

Fixing the Door Seal

The first step to improve the door seal is to tighten the door latch. This is done by moving the door catch on the fireplace inwards. This adjustment should be done in very small increments and the door latch should be tested after each adjustment.



7/16" Wrench

To adjust the door catch, loosen these two nuts and slide the catch assembly back 1/16".

If the door latch is very tight, yet the door seal is still loose, it may be time to replace the door gasket. To replace the gasket strip the old gasket and any gasket cement off of the door. Attach the replacement gasket to the door and cut off any excess material (see page 25 for details).

Glass Inspection & Removal (use only 5mm neo-ceramic glass)

If the glass is cracked or broken, it must be replaced. The glass & gasket should seal against the door. See the illustration on page 25 for glass removal. When re-installing the glass, gently press the rope gasket in place (use a putty knife if necessary).

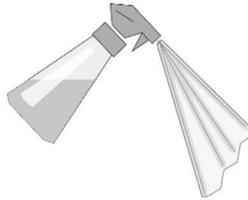
WARNING: The top of the glass comes close to the face of the fireplace. The glass must be all the way down to prevent it from striking the fireplace when the door is closed.

Clean the Glass (if necessary)

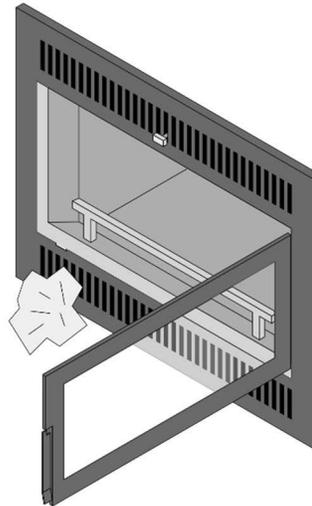
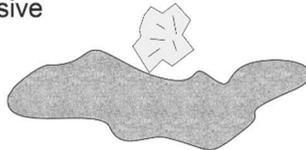
This appliance has an air wash to keep the glass clean. However, burning unseasoned wood or burning with lower burn rates leads to dirtier glass (especially on the sides). Clean the glass by following the directions below.

- Do not clean when hot.

Allow the stove to fully cool.
Apply glass cleaner or soapy water to the inside of the glass.
Wipe with newspaper or a paper towel.



For stubborn Creosote:
Dip newspaper or a paper towel in cool ashes and wipe it on the glass. The ash acts as a light abrasive



The glass may develop a slight haze over time. This is normal and will not affect the viewing of the fire.

Creosote – Formation, and Need for Removal

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.

The chimney shall be inspected at least twice a year during the heating season to determine when creosote buildup has occurred.

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

Accessing the Blowers



MAKE SURE TO DISABLE THE BREAKER TO THE FIREPLACE BEFORE SERVICING THE BLOWERS.

1. Remove floor bricks and clean floor plate.



2. Remove the floor plate by lifting it from the finger holds on the front flange.



3. Remove the heat shield bolts (2 - 7/16" bolts) and remove the heat shield by sliding to the left and lifting out.



4. Gently clean the impellers of the blowers using a soft-bristled brush. Vacuum the air channel and blower to remove dust and debris.

NOTE: Take care not to damage or misshapen the impeller blades. Damage will cause the blower to not be balanced and could cause vibration and noise during operation.

Catalytic Combustor Replacement

1. Remove insulation on the sides of the combustor



2. Grab both edges of the combustor and work it out by pulling back and forth on both sides.

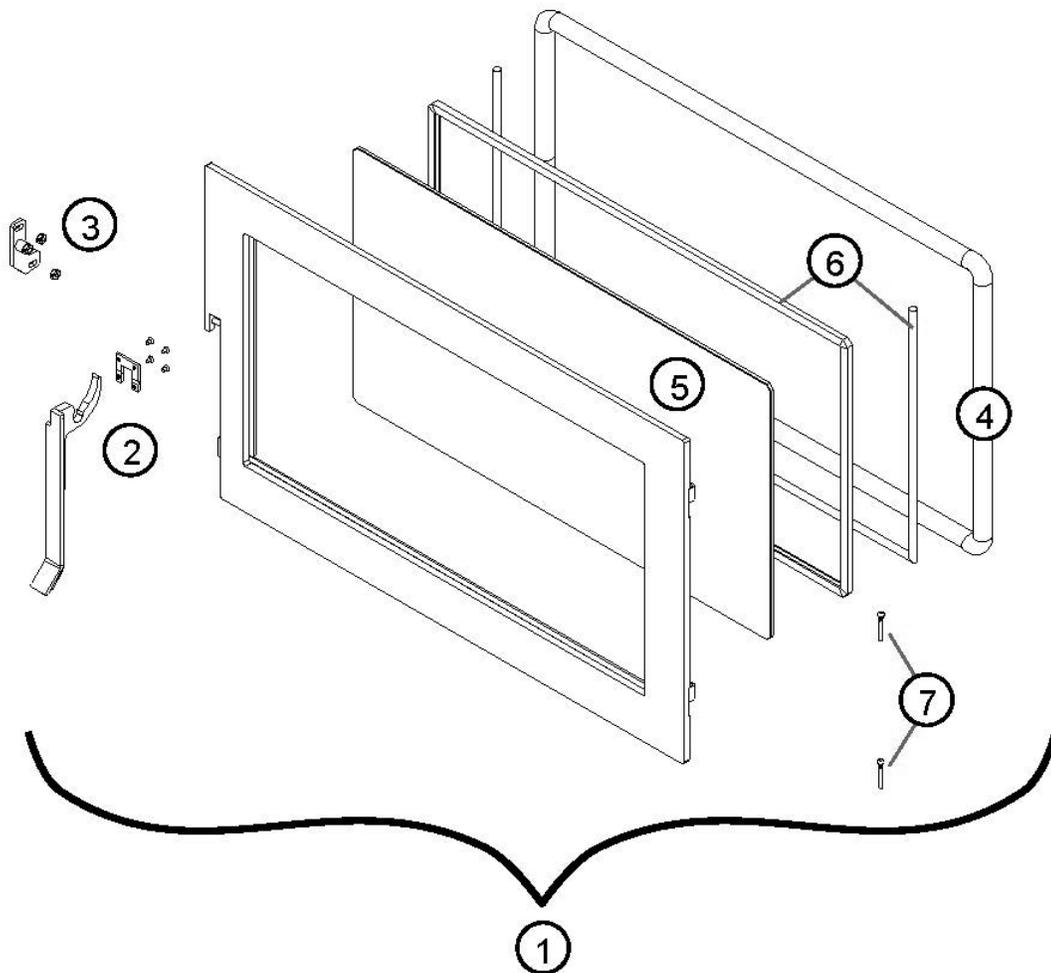


3. Install new combustor making sure that the side insulation and the combustor top and bottom gasket are in place.

NOTE: The combustor is fragile, handle with care.

Replacement Parts List

Door Parts

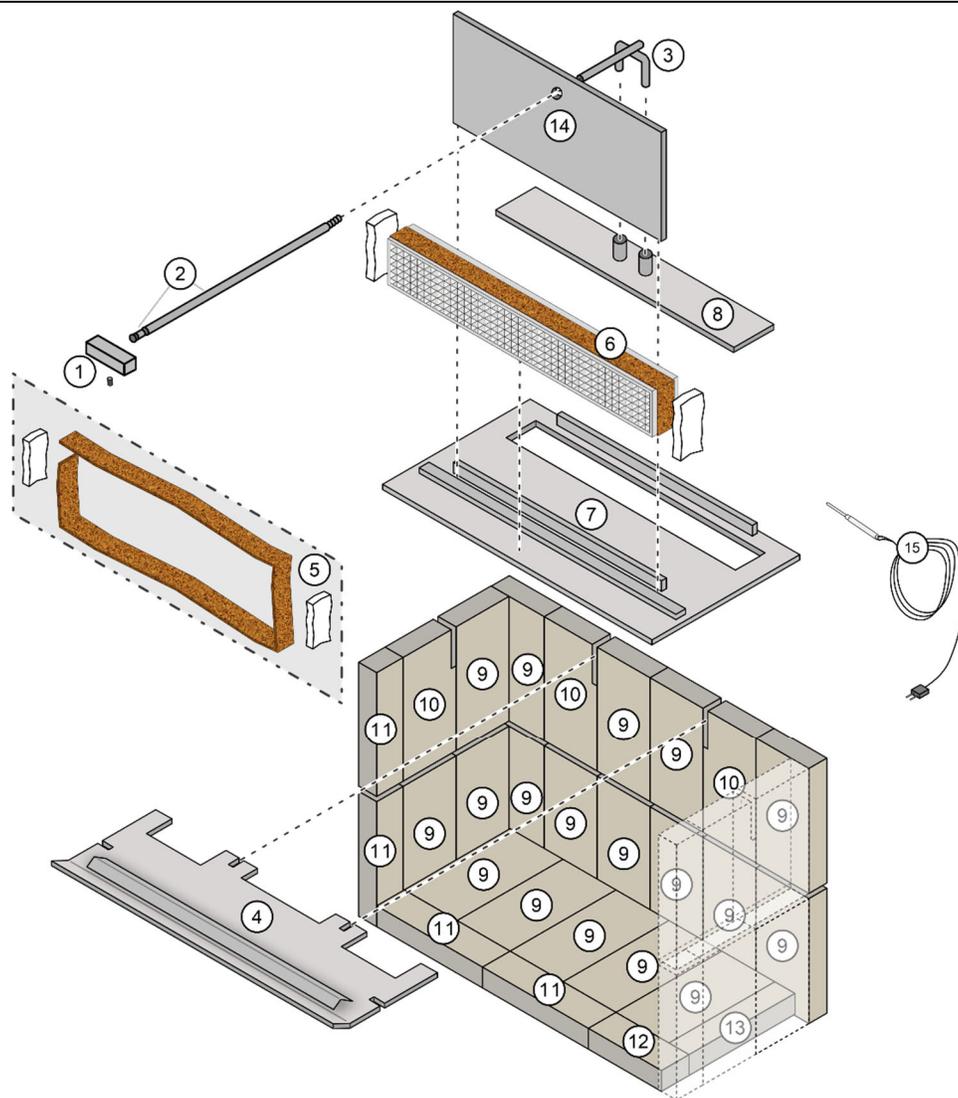


Item	SKU	Description	Qty	Includes
1	250-04188	DOOR ASS'Y	1	Entire Door Assembly
2	250-04190	HANDLE, DOOR	1	Handle, U Plate, Screws
3	250-04220	DOOR LATCH	1	All Nuts, Screws Included
4	99900402	GSKT, DOOR 7/8" x 100" BLK #	1	7/8" Diameter Fiberglass
5	250-04189	GLASS, RECT.	1	Glass and Gasket Tape
6	98500731	GASKET KIT, GLASS FPX	1	Gasket Tape, 1/2" Dia. Rope
7	250-04221	HINGE PIN (2-PK)	1	2 Pins

Electrical Parts

SKU	Description	Qty.
250-04176	BLOWER, CONVECTION	1
250-04207	WIRE HRNS, MAIN	1
250-00311	SNAP-DISC - 120deg NO#	1

Firebox Parts



Item	SKU	Description	Qty.	Includes
1	250-04174	KNOB w/ SCREW, AIR CNTRL	1	Set Screw, Knob
2	250-04219	DAMPER EXT ROD	1	Shaft & Threaded End
3	250-02493	DAMPER YOKE ASS'Y	1	
4	250-04185	SMOKE SHELF	1	
5	91001612	GSKT KIT, CATALYTIC	1	Interam Gskt, Kaowool Wedge
6	250-00556	CATALYTIC COMBUSTOR	1	Combustor, Interam Gskt
7	250-04186	DAMPER PLATE	1	
8	250-04177	DAMPER SLDR PLATE	1	
9	251-00000	BRICK-WHOLE, 9 x 4-1/2 x 1-1/4	21	
10	251-00083	BRICK-CUT, 9" x 4-1/2" (#61)	4	NOTE: Brick has slot
11	251-00076	BRICK-CUT, 9 x 2-7/16	6	
12	251-00082	BRICK-CUT, 6-1/2 x 2-1/2(#62)	1	
13	251-00021	BRICK-CUT, 9 x 2	1	
14	250-04202	CATALYTIC REAR BAFFLE -- 42 APEX 14"	1	
15	250-03587	TEMP PROBE, THCPLE# -- CAT COMB	1	

Limited 7 Year Warranty

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Register your TRAVIS INDUSTRIES, INC. Limited 7 Year Warranty online at traviswarranty.com. TRAVIS INDUSTRIES, INC. warrants this gas appliance (appliance is defined as the equipment manufactured by Travis Industries, Inc.) to be defect-free in material and workmanship to the original purchaser from the date of purchase as follows:

Years 1 & 2 - COVERAGE: PARTS & LABOR

Air Control Assembly

Slider Plate, Linkage

Blower Assembly

Blower, Wire Harness, Snap Disk

Ceramic Glass

Glass (breakage from thermal shock)

Catalytic Combustor

Catalytic Combustor (see "Conditions and Exclusions" # 10)

Damper Assembly

Damper Plate, Linkage

Combustor Temp. Display

Display, Temp Probe

Door Assembly

Door, Latch Assembly, Glass Retainers

Face Assembly

Faceplate, Fasteners

Firebox Assembly

Firebox, Combustor Support, Baffle, Air Channels

Firebrick

Breakage from thermal shock

Re-Installation Allowance

In cases where heater must be removed from home for repairs, a partial cost of re-installation is covered (pre-authorization required)

One-Way Freight Allowance

One-way freight allowance on pre-authorized repair done at factory is covered.

Exclusions: Paint, Gasketing

Years 3 Through 5 - COVERAGE: PARTS & LABOR

Air Control Assembly

Slider Plate, Linkage

Catalytic Combustor

Coverage for thermal crumbling and disintegration only.

Damper Assembly

Damper Plate, Linkage

Door Assembly

Door, Latch Assembly, Glass Retainers

Face Assembly

Faceplate, Fasteners

Firebox Assembly

Firebox, Combustor Support, Baffle, Air Channels

One-Way Freight Allowance

One-way freight allowance on pre-authorized repair done at factory is covered.

Exclusions: Paint, Gasketing, Blower Assembly, Glass, Firebrick, Accessories, Temp. Display, Re-Installation Allowance

Years 6 & 7 - COVERAGE: PARTS ONLY

Air Control Assembly

Slider Plate, Linkage

Damper Assembly

Damper Plate, Linkage

Door Assembly

Door, Latch Assembly, Glass Retainers

Face Assembly

Faceplate, Fasteners

Firebox Assembly

Firebox, Combustor Support, Baffle, Air Channels

Exclusions: Paint, Gasketing, Blower Assembly, Glass, Firebrick, Accessories, Catalytic Combustor, Temp. Display, Re-Installation Allowance, One-Way Freight Allowance, Labor

CONDITIONS & EXCLUSIONS

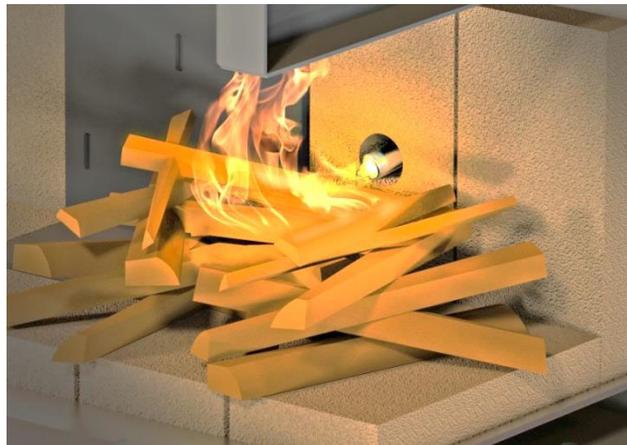
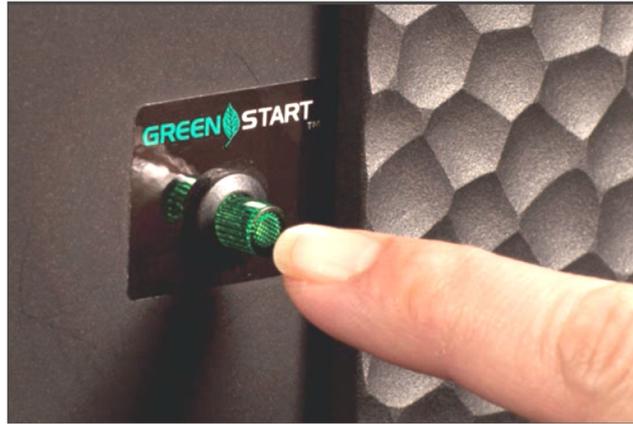
1. This new appliance must be installed by a qualified installer. It must be installed, operated, and maintained at all times in accordance with the instructions in the Owner's Manual. Any alteration, willful abuse, accident, neglect, or misuse of the product shall nullify this warranty.
2. This warranty is nontransferable and is made to the ORIGINAL purchaser, provided that the purchase was made through an authorized Travis dealer.
3. Discoloration and some minor expansion, contraction, or movement of certain parts and resulting noise, is normal and not a defect and, therefore, not covered under warranty. Over-firing (operation where the steel may glow red) of this appliance can cause serious damage and will nullify this warranty.
4. The warranty, as outlined within this document, does not apply to the chimney components or other Non-Travis accessories used in conjunction with the installation of this product. If in doubt as to the extent of this warranty, contact your authorized Travis retailer before installation.
5. Travis Industries will not be responsible for inadequate performance caused by environmental conditions such as nearby trees, buildings, rooftops, wind, hills, or mountains or negative pressure or other influences from mechanical systems such as furnaces, fans, clothes dryers, etc.
6. This Warranty is void if:
 - a. The unit has been operated in atmospheres contaminated by chlorine, fluorine, or other damaging chemicals.
 - b. The unit is subject to submersion in water or prolonged periods of dampness or condensation.
 - c. Any damage to the unit, combustion chamber, heat exchanger, or other components due to water, or weather damage which is the result of, but not limited to, improper chimney/venting installation.
7. Exclusions to this 7 Year Warranty include: injury, loss of use, damage, failure to function due to accident, negligence, misuse, improper installation, alteration or adjustment of the manufacturer's settings of components, lack of proper and regular maintenance, damage incurred while the appliance is in transit, alteration, or act of God.
8. This 7 Year warranty excludes damage caused by normal wear and tear, such as paint discoloration or chipping, worn or torn gaskets, chipped or cracked firebrick, etc. Also excluded is damage to the unit caused by abuse, improper installation, modification of the unit, or the use of fuel other than that for which the unit is configured (use cord wood only).
9. Damage to surfaces caused by melted items, or other external sources left on the surface from the use of cleaners is not covered in this warranty. Damage from over-firing (operation where the steel may glow red) is not covered in this warranty.
10. Damage to the catalytic combustor due to mishandling, removal, cleaning, or other handling is not covered. Degradation of the combustor due to burning of anything other than natural cord wood is not covered. Burning of trash, garbage, artificial or paper logs, gift wrappings, coal, lighter fluids, chemical starters, treated or painted wood, driftwood or chemical cleaners will void the combustor warranty. These items contain chemicals that may cause the combustor to become deactivated.
11. TRAVIS INDUSTRIES, INC. is free of liability for any damages caused by the appliance, as well as inconvenience expenses and materials. Incidental or consequential damages are not covered by this warranty. In some states, the exclusion of incidental or consequential damage may not apply.
12. This warranty does not cover any loss or damage incurred by the use or removal of any component or apparatus to or from the Travis appliance without the express written permission of TRAVIS INDUSTRIES, INC. and bearing a TRAVIS INDUSTRIES, INC. label of approval.
13. Any statement or representation of Travis products and their performance contained in Travis advertising, packaging literature, or printed material is not part of this 7 year warranty.
14. This warranty is automatically voided if the appliance's serial number has been removed or altered in any way. If the appliance is used for commercial purposes, it is excluded from this warranty.
15. No dealer, distributor, or similar person has the authority to represent or warrant Travis products beyond the terms contained within this warranty. TRAVIS INDUSTRIES, INC. assumes no liability for such warranties or representations.
16. Travis Industries will not cover the cost of the removal or re-installation of hearths, facing, mantels, venting, or other components.
17. If for any reason any section of this warranty is declared invalid, the balance of the warranty remains in effect and all other clauses shall remain in effect.
18. This 7 year warranty is the only warranty supplied by Travis Industries, Inc., the manufacturer of the appliance. All other warranties, whether express or implied, are hereby expressly disclaimed and the purchaser's recourse is expressly limited to the warranties set forth herein.

IF WARRANTY SERVICE IS NEEDED:

1. If you discover a problem that you believe is covered by this warranty, you MUST REPORT it to your Travis dealer WITHIN 30 DAYS, giving them proof of purchase, the purchase date, and the model name and serial number.
2. Travis Industries has the option of either repairing or replacing the defective component.
3. If your dealer is unable to repair your appliance's defect, he may process a warranty claim through TRAVIS INDUSTRIES, INC., including the name of the dealership where you purchased the appliance, a copy of your receipt showing the date of the appliance's purchase, and the serial number on your appliance. At that time, you may be asked to ship your appliance, freight charges prepaid, to TRAVIS INDUSTRIES, INC. TRAVIS INDUSTRIES, INC., at its option, will repair or replace, free of charge, your appliance if it is found to be defective in material or workmanship within the time frame stated within this 7 year warranty. TRAVIS INDUSTRIES, INC. will return your appliance, freight charges (years 1 to 5) prepaid by TRAVIS INDUSTRIES, INC., to your regional distributor, or dealership.
4. Check with your dealer in advance for any costs to you when arranging a warranty call. Dealers may require you to pay a service or trip charge for any warranty work. This charge can vary from store to store.

GreenStart™ Woodstove Igniter (Part # 94400951)

The optional GreenStart™ igniter is available for your fireplace. This accessory starts your fire with a simple push of a button.



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