

OPERATION

Prior to operating your new Fireview woodstove, please refer to "Setting up your stove" on page 11, located in the Installation portion of the manual.

Seasoning Your Stove

Both soapstone and cast iron need to be seasoned. The seasoning can be accomplished through a series of small to moderate fires. Your Woodstock Soapstone Stove is an easy stove to season, because even a small fire will provide hours of radiant heat once the stove is warm. **There are two things you will notice during the first fire:**

First, there will be a hot, acrid smell as the stove heats up. This smell is a result of the paint on the cast iron curing. You will want to have your first fire on a day when you can open the windows in the house to provide adequate ventilation. Fortunately, the odor is non-toxic and will only be present for the first few fires.

Second, there will be some condensation on the glass. This condensation is a result of moisture being driven out of the furnace cement in the stove, and condensing on the inner surface of the glass. It takes a couple of small fires to season the stove and remove this excess moisture.

After the first few fires, the texture and grain of the stone may become slightly more pronounced, and the color may deepen slightly.

Starting a Fire and Establishing Proper Draft

THIS IS IMPORTANT: Check the Draft Before You Light The Stove:

Before you light your stove, it is a good idea to check the draft. If you experience a down draft (cool air moving down the chimney), you will need to correct this before you light the stove. Otherwise, you may get smoke in the house.

1. Open the catalytic bypass damper by pushing the lever with the black knob all the way down. This will open the bypass door. (Fig. 1)
2. Push the air lever next to the side door all the way down to "4" to completely open the air damper. With the lever in the down position, maximum air is allowed into the firebox. (Fig. 2)
3. **Always confirm there is adequate draft before lighting the fire.** Hold a lit match or light a small piece of newspaper in the top of the firebox, where smoke exits. If the flame is drawn out of the firebox, toward the flue, proceed with lighting the fire. If the flame stands still or is pushed away from the flue exit, you must establish a good draft before lighting a fire. There are several ways of establishing a draft, below are a few suggestions:

A) You may be able to correct inadequate draft by opening a door or window in the room where the stove is installed. Wait a minute or two, then light a match again in front of the flue outlet. The flame should be pulled into the flue opening.

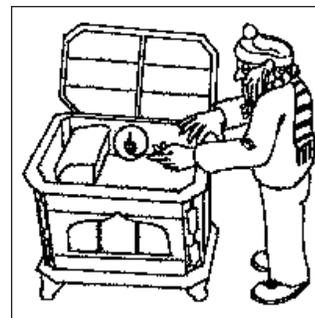
B) A hair dryer or heat gun pointed at the flue exit is a good way to establish draft without creating a lot of smoke. After you think you have draft, re-test with a match.

C) Light rolled up newspaper and hold it under the bypass door at the back of the stove. This should warm the chimney enough to establish proper draft.

Lighting the Fire

DO NOT USE ANDIRONS OR A GRATE TO SUPPORT WOOD. BUILD A FIRE DIRECTLY ON THE BOTTOM OF THE FIREBOX.

- 1) Once good draft has been established, build a fire on the floor of the firebox. Do not use additional grates, andirons, or any other methods to support the fuel in the firebox. Start with crumpled newspaper and dry kindling.
- 2) Now light the newspaper. Once it catches, you may leave the door open 1/4 to 1/2 inch for a few minutes to promote air flow, but **DO NOT** forget to close it.



Always perform the "Match Test" before lighting your stove. If you light a match and hold it in front of the flue exit, the flame will be pulled into the flue collar if there is enough draft to light the stove.

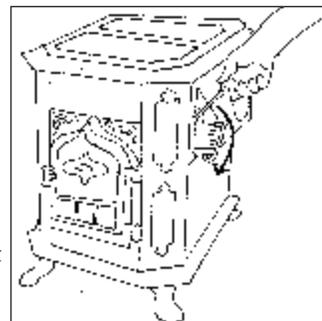


Figure 1:
Open bypass by lowering lever with the black knob

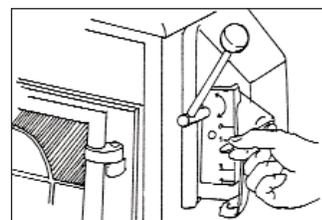


Figure 2:
Open air fully by lowering air lever down to "4".

- 3) Add small splits of firewood once the kindling has ignited. This will establish a bed of hot coals.
- 4) Add small to medium splits onto the hot coals. Assuming the wood is dry, the fire should spread through the wood. After about 10 minutes, close the air damper down about half way between the "2" and "3" mark.
- 5) After the stove top temperature reaches 250°F or your single wall pipe temperature reaches 300-350°F, close the bypass by lifting the lever with the black knob all the way up into the closed position. It will stop when the bypass is fully closed. All of the smoke from the firebox will now pass through the catalytic combustor. The combustor will generate a substantial amount of heat as it "burns" the smoke passing through it.
- 6) Adjust the air control damper to a lower setting, our recommendation is near the "1" mark. The closer the lever is to the "0", the lower the burn rate, as less air is entering the firebox. The final damper setting will be determined by the desired heat output from the stove, the condition of the wood being burned, and the draft through the chimney system.

NOTE: The above procedures, times, and positions are a guide. Your conditions will vary depending upon draft, wood moisture and size, and weather conditions.

CAUTION

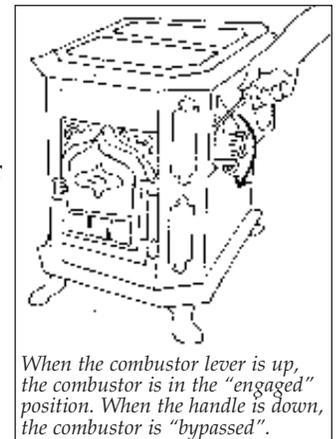
NEVER USE GASOLINE, LANTERN FUEL, KEROSENE, CHARCOAL LIGHTER FLUID, OR SIMILAR LIQUIDS, TO START OR 'FRESHEN UP' A FIRE IN THIS STOVE. KEEP ALL SUCH LIQUIDS WELL AWAY FROM THE STOVE WHILE IT IS IN USE.

Engaging the Catalytic Combustor

The catalytic combustor will start to burn the gases and particles in the smoke when the temperature of the smoke reaches approximately 500°F (internally), or after about 10-15 minutes of establishing a strong fire. Each stove comes with a magnetic surface thermometer and a probe thermometer to monitor your stove temperatures. The magnetic surface thermometer will read approximately 1/2 the temperature inside the stove, so when the surface thermometer on the stove top reads 250°F, it is 500°F inside. You will find that after the combustor is engaged, surface temperatures will often rise considerably- evidence that the combustor is producing lots of heat, and the pipe temperature will go down, indicating less heat loss to your chimney!

The probe thermometer terminates within an inch of the catalytic combustor, and will provide the temperature of gasses exiting the catalytic combustor. Temperatures above 500 degrees F indicate that the catalyst is working.

Engage the combustor by lifting the bypass handle (with the black knob) up until it clicks into its upright position and then reduce the air damper to 1. You should see the bright yellow flames slow down and become more orange in color. Make fine adjustments to your damper (by moving it closer to 0 in 1/8 to 1/4 inch increments) until you achieve this slower moving, darker flame. Closing the air damper all the way will provide a long, overnight burn.



Low & Overnight Burning

These instructions are intended as a guide to operating your wood stove. Your timing and final damper settings will vary depending on chimney draft, type of wood, moisture content of the wood, and size of the splits. The Fireview model is simply designed and intended to be user friendly, but it will take some practice to get used to it.

- 1) Before you open the loading door, you must fully open the catalytic bypass and the air damper. Wait a minute or so for a strong draft to be established to prevent smoke from spilling back into the room.
- 2) Stir up the hot coals. If necessary, excess ash should be removed before reloading the firebox. Dispose of the ash properly. **Never put an ash container on a combustible surface, like a wood floor.**
- 3) Place several small splits on top of the hot coals and allow them to ignite.
- 4) Load the firebox to capacity, leaving space for secondary combustion, with a mix of larger and smaller splits. Close the loading door and allow the pipe temperature to come back up to 300°-350°.

- 5) Adjust the air damper to a low setting by lifting the lever up.
- 6) Close the catalytic bypass, by lifting the lever with the black knob all the way up into the closed position. It will stop when the bypass is fully closed.
- 7) Initially the fire may appear to die out. This may cause a small amount of soot to collect on the glass. Any buildup on the glass should go away with higher temperature burns

THE STOVE SHOULD NEVER BE OPERATED WITH THE DRAFT DAMPER COMPLETELY OPEN EXCEPT WHEN KINDLING A FIRE OR RELOADING THE STOVE. It should be “damped down” or partially closed as soon as the fire has been kindled or, if the stove is being reloaded, as soon as the fire has been re-established.

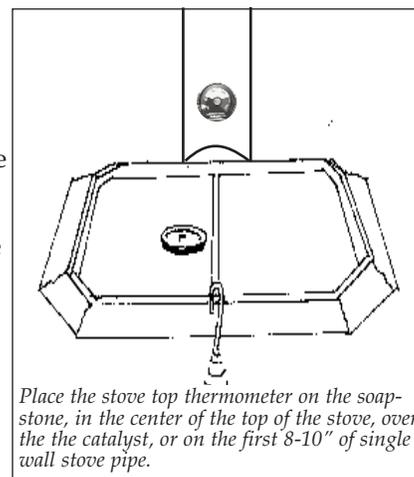
NEVER BUILD A ROARING FIRE IN A COLD STOVE! It takes approximately 30-45 minutes to heat the soapstone mass of the Fireview stove thoroughly. Any attempt to hurry this process and generate extremely high heat quickly could result in damage to the cast-iron or to the soapstone. Your patience will be rewarded with hours of “stored” warmth.

The Surface and Probe Thermometers

We recommend placing the surface thermometer 8”-10” above the flue collar on **single wall** stove pipe if the stove is vented out the top. If you are reading the single wall stove pipe temperature, the interior flue exhaust temperature is about twice as hot. Since the 22 gauge sheet metal pipe is more reactive (faster heat transfer) than the stove top, you will find you can engage the combustor sooner. We recommend engaging your catalytic combustor once the pipe thermometer reaches 250°-300° F.

Once the combustor is engaged, you should see the stove surface temperature rise and the pipe temperature drop, indicating catalytic combustor activity. From a cold start it may take 30-45 minutes to get the stove up to temperature. If you are reloading a hot stove, wait approximately 10-15 minutes before engaging the combustor.

The thermometer is not a precise instrument – it will not tell you the exact temperature inside the firebox or in the flue. If reading the surface temperature, the thermometer will not register changes in temperature quickly due to the thickness and heat retention of soapstone. We supply the thermometer to give you some idea of what is going on inside the stove, and to provide a guide for operation.



<u>STOVE TOP READING</u>	<u>OPERATION</u>
at or over 250°.....	OK to engage the combustor
400-600°.....	Normal operating temperature
600-700°.....	High burn range
over 700°.....	DO NOT burn in this range

The probe thermometer can be inserted into the port beside the flue collar in the rear of the stove. The probe thermometer will measure the temperature immediately downstream of the catalytic combustor. The sensing end of the probe extends to within 1 inch of the face of the catalyst. The probe is calibrated from room temperature to 1700 degrees F. The catalyst can be engaged as soon as the temperature on this probe exceeds 500 degrees F, or as soon as the temperature on the pipe thermometer exceeds 250 degrees (see above). The best operating range for the catalyst is from 500 - 1400 degrees F. When the temperature on the probe thermometer exceeds 1400 degrees F, we recommend closing the damper to prevent excessive heat from occurring

Overfiring

The cast iron parts in your Woodstock Soapstone Stove are of the finest quality. Each cast iron part is inspected by our stove builders before it becomes part of a stove. However, cast iron is not indestructible. Experts have shown that cast iron begins to oxidize (reddish or whitish discoloration) at 1400° F. Burning a stove frequently at excessive temperatures is known as overfiring. When the surface temperature is consistently near or over 700° F, the stove has reached 1400° F inside. Operation with temperatures in this range can lead to cast iron warping, becoming brittle, and eventually deteriorating completely. Overfiring can also shorten the useful life of the catalytic combustor.

Avoid overfiring by letting the combustor do most of the work in the stove. Your stove is operating at peak efficiency when the combustor is “engaged”, with the damper lever set to a low to moderate setting, and the logs are glowing with some low flames. You will get the greatest amount of heat per pound of wood when the stove is operated in this manner.



DO NOT OVERFIRE THIS WOOD STOVE!

ATTEMPTS TO ACHIEVE HEAT OUTPUT RATES THAT EXCEED STOVE DESIGN SPECIFICATIONS CAN RESULT IN PERMANENT DAMAGE TO THE STOVE AND TO THE CATALYTIC COMBUSTOR.

Daily Use

Your Fireview is well-suited for continuous firing on a 24 hour-a-day basis. It will burn for hours on one load of wood, and will provide steady, even heat for hours after the fire dies down. When the temperature on top of the stove drops below 250° during an all-night burn, it is not necessary to disengage the combustor. You need only disengage the catalytic combustor when you kindle a fire, or reload the stove. Once the catalyst is ignited, it will continue to function as long as there is smoke to burn. This is true even if the surface temperature on top of the stove drops below 250° at the end of a long burn.

Your connector pipe and chimney, or chimney pipe, should be inspected at regular intervals (not less than once every two months). Examine the connector pipe for creosote, corrosion, loose seams, or excessive soot. Clean and replace as necessary. The chimney, or chimney pipe, should be cleaned and checked by a certified specialist once a year. A small mirror held at the cleanout door of a masonry chimney will be helpful. For a class A prefabricated metal pipe, some disassembly is usually required.

Ash Removal

NEVER SHOVEL ASHES INTO A COMBUSTIBLE CONTAINER LIKE A CARDBOARD BOX OR A PLASTIC BUCKET. DO NOT USE A VACUUM CLEANER TO REMOVE ASHES UNLESS IT IS SPECIFICALLY DESIGNED FOR WOODSTOVE ASH REMOVAL. NEVER LEAVE A CONTAINER OF HOT ASHES ON A WOOD FLOOR, PORCH, OR ANY COMBUSTIBLE SURFACE.

Ashes must be removed through the side loading door, approximately every 5-7 days if the stove is in continuous operation. You do not have to let the fire die out completely to remove the ashes, but the fire must be reduced to hot coals. First make sure that both the catalytic bypass damper and the air control damper are open. This will increase the draft and prevent smoke from entering the room. Open the side door and and move the hot coals to one side or the back of the firebox. Scoop out the ashes that were underneath the coals, and then reverse the procedure. Leave some ash and hot coals in the bottom of the stove to help rekindle a fire.

ASHES SHOULD BE EMPTIED INTO A METAL CONTAINER WITH A TIGHT FITTING LID. THE CLOSED CONTAINER OF ASHES SHOULD BE PLACED ON A NONCOMBUSTIBLE FLOOR OR ON THE GROUND, WELL AWAY FROM ALL COMBUSTIBLE MATERIALS, PENDING FINAL DISPOSAL. IF THE ASHES ARE DISPOSED OF BY BURIAL IN SOIL OR OTHERWISE LOCALLY DISPERSED, THEY SHOULD BE RETAINED IN THE CLOSED CONTAINER UNTIL ALL CINDERS HAVE THOROUGHLY COOLED. LIVE CINDERS CAN TAKE 36 HOURS OR LONGER TO COOL.

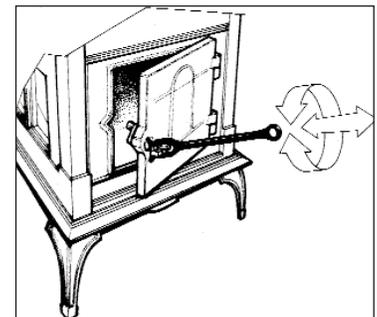
The Fall-Away Handle

The metal “fall-away” handle, which comes with your stove, can be used to operate any of the three controls on the stove: **1)** The side door latch, **2)** The draft damper control, and **3)** The catalytic bypass handle.

The FORK of the handle should be used to turn the latch, to push the door closed, or open and close the damper.

The LEG of the handle should be used to pull the door open or to move the combustor bypass into position.

The “fall-away” handle conforms to UL requirements and is made so that if you let go of it, it will “fall-away” from the stove and not become too hot to handle.



The fall-away handle may be used to operate the controls on your stove when they are too hot to handle safely.

Cooking

The soapstone top of your stove provides a good cooking surface for soups and stews or meals cooked in a Dutch oven. The soapstone distributes heat evenly for long simmering, and the polished surface is a natural no-stick surface. We do not recommend cooking directly on the stove top, as the surface will discolor. If the soapstone does discolor, it can easily be restored by sanding lightly with 000 or 0000 steel wool.

Firewood

Your Woodstock Soapstone Stove is designed to burn seasoned, natural cordwood only. Higher efficiency and lower emissions generally result when burning air-dried hardwoods, as compared to soft woods or green, freshly cut hardwoods.

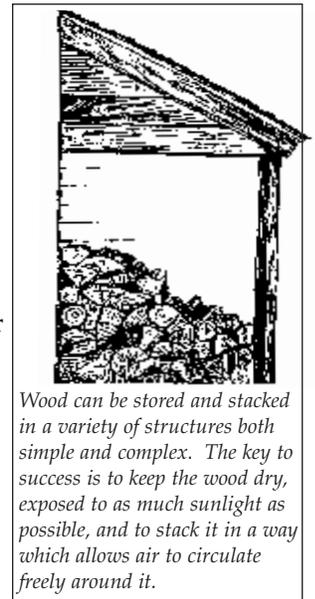
The moisture content of some trees may range as high as 50% – i.e., there is as much moisture in the tree as there is wood. After wood has been stored for a year, the moisture content will usually range from 15-25%. Splitting wood before it is stored will reduce drying time, result in more even burning, and lessen the danger of water vapor condensing in the chimney, creosote formation, and damage to the catalyst. It is safer and more efficient to burn dry or seasoned cordwood than green or wet wood that smolders.

The advantages of burning dry wood are many. Dry wood is lighter, easier to split and easier to carry. It is easier to light, produces more heat and generates less smoke. If you burn wet wood some of the energy generated by the fire is used to drive moisture out of the wood, rather than producing heat for you. Dry wood will maintain the highest combustor temperatures and burn the most efficiently. Creosote is much less likely to form if you burn dry wood.

DO NOT BURN treated or painted wood, coal, garbage, cardboard, solvents, colored paper, or trash in your Woodstock Soapstone Stove. Coal and artificial logs burn much hotter than wood and could cause damage, through overheating, to the cast iron or the soapstone panels. Burning treated wood, garbage, solvents, colored paper or trash may result in the release of toxic fumes and may poison or otherwise render the catalytic combustor ineffective.

Burning cardboard, loose paper, and trash will add significantly to ash and soot build-up, and it will not produce much heat. Fly ash from improper fuel can also coat or plug the combustor, causing smoke spillage into the room.

Under normal operating conditions, the Woodstock Soapstone Stove is designed to last for generations. It is not, however, designed for continuous over-firing, or firing with coal, artificial logs or trash.



Wood can be stored and stacked in a variety of structures both simple and complex. The key to success is to keep the wood dry, exposed to as much sunlight as possible, and to stack it in a way which allows air to circulate freely around it.

DO NOT BURN!

- UNSEASONED WOOD
- TREATED/PAINTED WOOD
- GARBAGE
- CARDBOARD
- SOLVENTS
- COLORED PAPER
- TRASH
- LAWN CLIPPING
- RUBBER PRODUCTS
- PLASTICS
- PETROLEUM PRODUCTS
- PAINT/PAINT THINNER
- MATERIALS CONTAINING ASBESTOS
- DRIFTWOOD
- ASPHALT PRODUCTS
- RAILROAD TIES
- MANURE/ANIMAL REMAINS
- PLYWOOD/PARTICLE BOARD