

# QUICK START GUIDE - CASCADE™ PELLET STOVE



## **WARNING**

Before you set up or operate your stove, review all safety, installation, and operation instructions in your “Installation and Operation Manual.”

## **USING THIS GUIDE**

This guide contains 5 easy steps to help you learn more about using your new Cascade pellet stove. Detailed operating and cleaning instructions are located in the “Installation and Operation Manual.”



# 1 PURCHASING THE CORRECT FUEL FOR THE STOVE

The Cascade™ pellet stove has been designed to burn wood pellets only. We recommend burning Premium Grade wood pellet fuel manufactured by companies who are members of the Pellet Fuels Institute (PFI). Although similar in appearance to those made of wood, other pelletized fuels such as wheat, barley, or corn will adversely affect the performance of the stove and may compromise safety.



PFI LOGO

### **RECOMMENDED FUEL**



- PFI APPROVED
- PREMIUM GRADE
- LESS THAN 1% ASH CONTENT
- LESS THAN 300 PPM CHLORIDES

### **INCORRECT FUEL**



- MOISTURE DAMAGE
- EXCESSIVE SAWDUST
- HIGH CHLORIDE OR ASH CONTENT




- OVERSIZED PELLETS (LONGER THAN 1-1/2")
- COMMERCIAL GRADE
- ECONOMY GRADE



- WHEAT PELLETS
- BARLEY PELLETS
- BARK PELLETS
- CORN

# 2 LIGHTING AND OPERATION




**FEED TRIM**


**Operating Instructions**


1. Light fire and close door.
2. Slide switch at right to "LOW HEAT".
3. After pellets are burning adjust switch to desired heat setting.
4. To turn off stove, slide the switch to the "OFF" position.

**FEEDING**



**HEAT OUTPUT**





## Hopper

After adding pellets to the hopper, always make sure to close the hopper lid. If the lid is open, the stove will not feed pellets to the fire.



### Feed Trim

Used to fine tune the amount of pellets fed into the UltraGrate™.

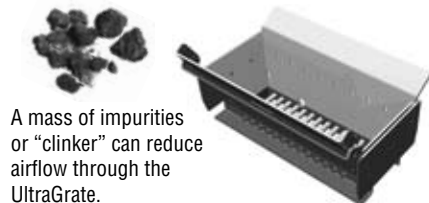
### Heat Output Switch

Once burning, use the heat output switch to choose between low and high heat settings.

## CHECK BEFORE LIGHTING



Maintaining a clean UltraGrate™ is vital to the safe and efficient operation of the stove. It is a good idea to verify your UltraGrate is clean prior to ignition each time you operate your stove.



A mass of impurities or "clinker" can reduce airflow through the UltraGrate.

## PREPARING TO LIGHT



Ensure the hopper is full of pellets and the lid is closed. Place a couple handfuls of pellets into the UltraGrate along with an approved (non-volatile) gel fire starter.

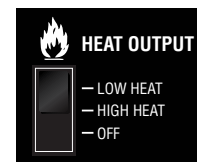
**DO NOT USE FLAMMABLE LIQUIDS TO START YOUR STOVE.**



## LIGHTING THE STOVE



Using a match, light the pellets and fire starter. Close the front door and turn the "HEAT OUTPUT" switch to the "LOW HEAT" setting. The stove blowers will turn on and you will see the flame in the UltraGrate become more active. Once the pellets are burning you can adjust the switch to the desired heat setting.



## RE-FUELING WHILE IN OPERATION

1. Open hopper lid and fill hopper with pellets
2. Make sure the hopper lid is completely closed
3. Check to make sure the stove remains lit

**FAILURE TO ENSURE THAT PELLETS IN THE ULTRAGRATE REMAIN BURNING AFTER RE-FUELING MAY RESULT IN SMOKE ESCAPING FROM THE UNIT.**

## STOPPING THE CASCADE PELLET STOVE

Slide the switch to the "OFF" position and allow any remaining pellets in the UltraGrate to burn up (The blowers will automatically turn off once the stove has cooled down)

# 3 FLAME APPEARANCE

The appearance of the flame can be a good indicator of the overall performance of the stove. A bright clean flame indicates proper balanced and efficient burning, while a dark slow-moving flame indicates incomplete combustion and a stove that may be in need of service and/or adjustment.

## PROPERLY ADJUSTED FLAME

The stove burns clean and heats efficiently.



- SHARP ACTIVE FLAME
- BRIGHT YELLOW HUE
- PELLET EMBERS ACTIVELY MOVE IN THE ULTRAGRATE
- CONSISTENT FLAME HEIGHT

## IMPROPERLY ADJUSTED FLAME

Requires more frequent cleaning and maintenance of the stove, failure to do so could lead to potentially unsafe operation.



- SLOW LAZY FLAME
- DARK ORANGE HUE
- LARGE FLAME WITH BLACK SOOTY TIPS
- PELLETS BUILD UP IN THE ULTRAGRATE

# 4 DAMPER ADJUSTMENT

The Cascade™ pellet stove is equipped with a damper which is used to fine tune combustion in order to achieve a steady, consistent, clean burn. Periodic adjustment to the damper may be necessary at times to compensate for variables such as fuel, venting, altitude, and maintenance intervals.

## OPENING THE DAMPER

Opening the damper increases the amount of combustion air. This can help increase pellet activity in the UltraGrate™ and correct a dark orange or sooty flame.

## CLOSING THE DAMPER

Closing the damper decreases the amount of combustion air. This can be a useful adjustment if your fuel is burning out or there is a large variation in flame height. If the damper is closed too much, your stove will burn less efficiently and require more maintenance.

**REFER TO THE “INSTALLATION AND OPERATION MANUAL” FOR DETAILED INSTRUCTIONS ON MAKING ADJUSTMENTS TO THE DAMPER.**



The damper is located on the bottom right of the stove.

# 5 CLEANING AND MAINTENANCE SCHEDULE

In addition to the regular maintenance procedures described below, the “Installation and Operation Manual” outlines yearly service that should be performed by a qualified technician.

## UltraGrate™

The UltraGrate should be checked for “clinkers” prior to operating the stove. Any leftover non-combustible material blocking the UltraGrate should be emptied into the firebox.



1 - 7 Days\*

## Ash Slides

The ash slides pull out allowing you to “drop” any accumulated ash from the firebox to the ash pan. The ash slides must be closed during stove operation.



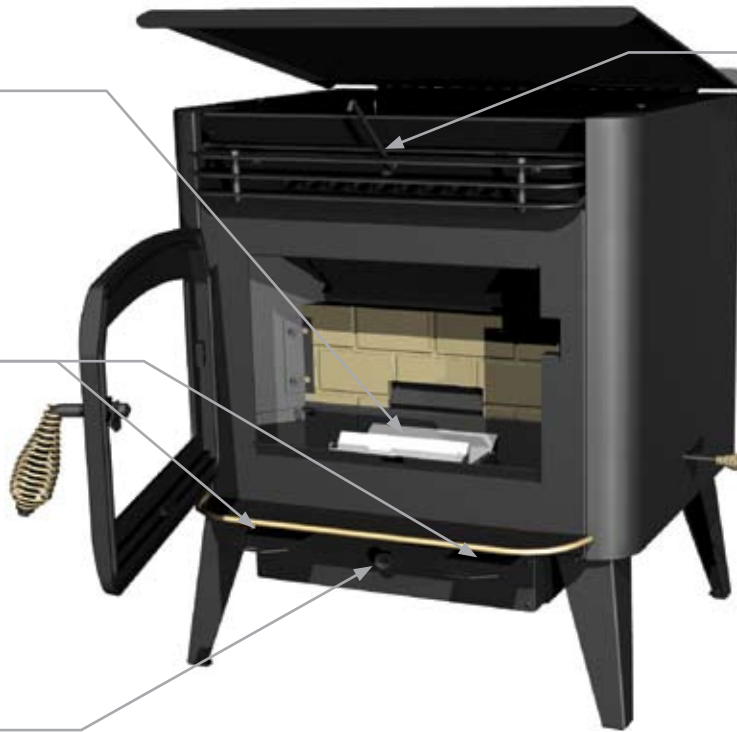
1 - 2 Weeks\*

## Ash Pan

The ash pan serves as a receptacle to hold ash that has accumulated in the firebox and embers that drop from the UltraGrate. Refer to the manual for proper ash disposal.



2 Days - 2 Weeks\*



## Heat Exchanger

Keeping the heat exchanger tubes clean will maximize the heating efficiency of your stove. Use the scraper tool to pull the tube scraper rod back and forth to release any ash build-up inside the firebox.



2 Days - 2 Weeks\*

## Glass

Clean the glass whenever a build up of ash or soot prevents you from clearly seeing the fire.

## Additional Yearly Maintenance\*

- Baffle Plates
- Ash Clean-Out Ports
- Exhaust Passages/Vent Pipe and Creosote Removal
- Gaskets
- Window Wash
- Cleaning Rear Stove Compartment

*\*Burning fuel with a high ash content or an improperly adjusted damper may require more frequent cleaning and stove maintenance.*

## IMPORTANT NOTE:

**BURNING POOR QUALITY FUEL WILL SIGNIFICANTLY INCREASE THE FREQUENCY OF REQUIRED CLEANING. FAILURE TO PROPERLY CLEAN AND MAINTAIN YOUR STOVE AS INDICATED IN THE MANUAL CAN RESULT IN A STOVE THAT IS UNSAFE TO OPERATE.**

## WARNING

- **Hot! Do not touch!** The glass and surface of this appliance will be hot during operation and will retain heat for a while after shutting off the appliance. Severe burns may result.
- **Carefully supervise children** in the same room as appliance.
- **Lennox pellet-burning appliances are designed for use as a supplemental heater. They are not intended for continuous use as a primary heat source.**

  
**LENNOX**  
HEARTH PRODUCTS

©Lennox Industries Inc. 2009

Visit us at [www.Lennox.com](http://www.Lennox.com), or contact us at 1-800-9-LENNOX.

P/N 506033-32 Rev. NC 06/2009