

Cleaning UltraGrate™ and Exhaust Passages

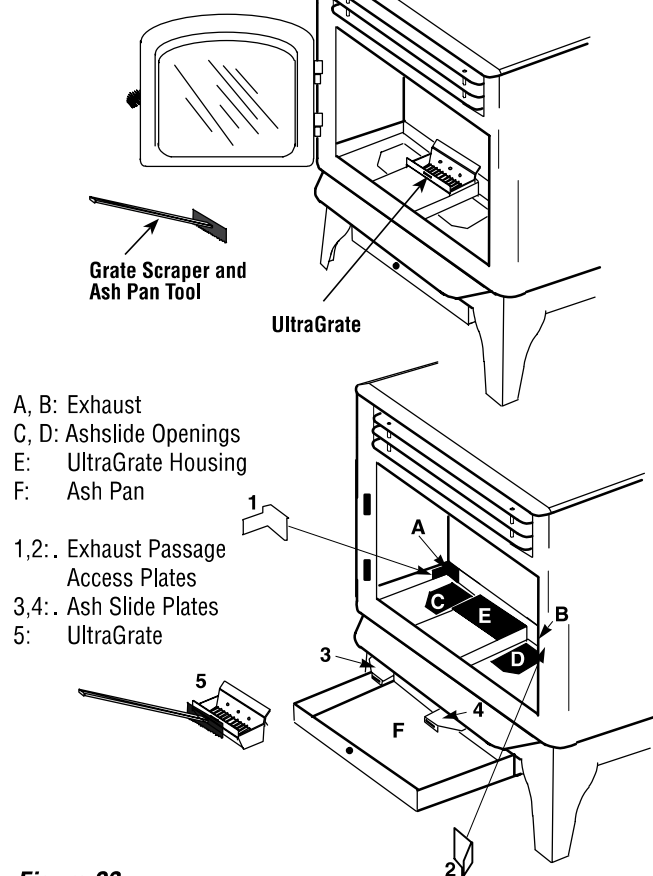


Figure 23

Cleaning Glass:

DO NOT CLEAN THE GLASS WHEN THE STOVE IS HOT.

CAUTION: Do not open the front door when the stove is hot. Clean the glass using a soft cloth or paper towel and a household glass cleaner or gas stove window cleaner. A commercial glass cleaner designed for stoves is recommended. Do not use abrasive cleaners. A damp cloth with a small amount of ash from the firebox can also be used to clean the glass.

Servicing Glass

CAUTION: BE CAREFUL NOT TO ABUSE THE DOOR ASSEMBLY BY STRIKING OR SLAMMING IT. IF THE DOOR ASSEMBLY OR GLASS IS BROKEN OR DAMAGED, THEY MUST BE REPLACED BEFORE HEATER CAN BE SAFELY OPERATED. USE ONLY COMPONENTS PROVIDED BY THE MANUFACTURER AS REPLACEMENT PARTS.

Replacing Glass:

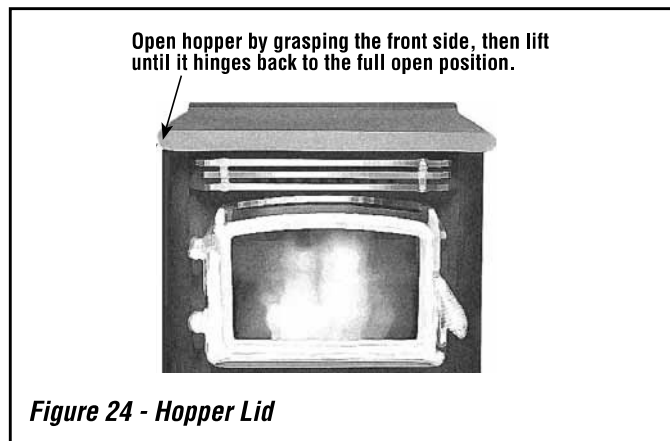
1. Remove door from stove by lifting door up and off hinge pins: Place the door on a flat protected (towel) clean flat surface with the inside of the door facing up. Remove the glass clips (by removing screws holding clips), then carefully remove broken glass one piece at a time (protective gloves are recommended).
2. Clean area where the glass with gasket will be installed.
3. Install new glass with gasket (use only factory 5 mm glass with glass channel gasket. Do not substitute). Carefully reinstall glass clips. Be very careful not to overtighten screws.
4. Reinstall door.

Pellet Fuel Hopper

It is recommended to open the hopper lid by grasping it on the side as shown in the following picture.

Open Hopper Lid by Grasping the Front Side

Be very careful not to touch other hot areas on stove!

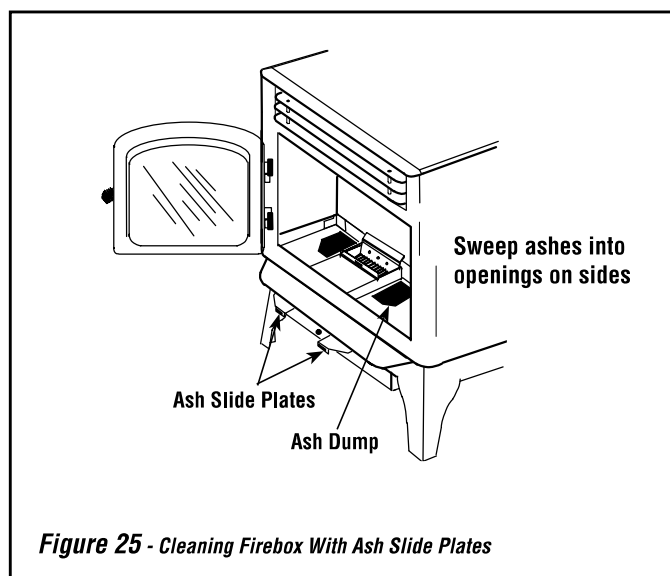


Ash Slide Plates

(Recommended Frequency of 2 Days - 2 Weeks*)

Ash that accumulates around the grate can be "dropped" into the ash pan by simply opening the two ash slide plates. The ash slide plates are located under the ash lip of the stove. Using the grate scraper / ash pan tool, grasp each plate and pull it toward you. This will allow the ash to dump or be swept into the ash pan below.

IMPORTANT NOTE: Make sure to fully close the plates when finished. Failure to close the ash release slide plates completely may cause the fuel to burn poorly (due to reduced air-flow through the grate), which may then cause pellets to "pile up" in the grate.



Ash Pan

(Recommended Frequency of 2 Days - 2 Weeks*)

NOTE: Periodically check for ash build up under the Ultragrate™. If the ash is allowed to build up to the bottom of the UltraGrate™, there will be a loss of combustion air and the pellets will start to pile up on the grate.

CAUTION: Disposal of Ashes - Ashes should be placed in a steel container with a tight fitting lid and moved outdoors immediately. The closed container should be placed on a non-combustible floor or 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 been thoroughly cooled.

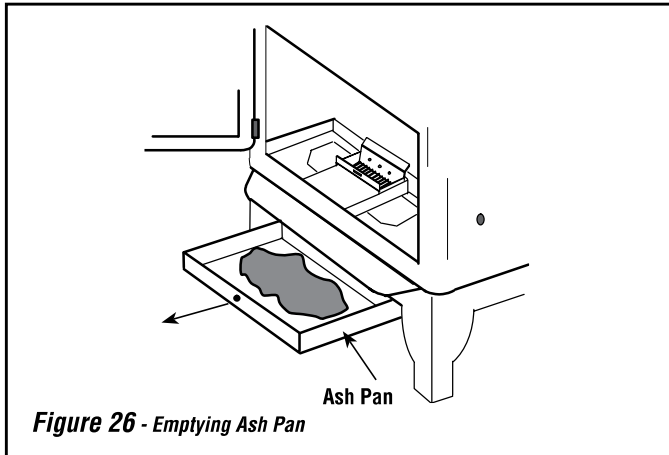


Figure 26 - Emptying Ash Pan

Soot and Flyash:

Formation and need for removal - The products of combustion will contain small particles of flyash. The flyash will collect in the exhaust venting system and restrict the flow of the flue gases. Incomplete combustion, such as occurs during startup, shutdown, or incorrect operation of the room heater will lead to some soot formation which will collect in the exhaust venting system. The exhaust venting system should be inspected at least once every year to determine if cleaning is necessary.

Exhaust Passages and Vent Pipe

(Recommended Frequency of Twice Yearly*)

Inspect frequently and clean when necessary. Fly-ash will accumulate at all bends in the exhaust system.

NOTE: Large amounts of Fly-ash build-up will create a lack of combustion air. Removing the Tee cap on vertical installations will allow an inspection of the ash build-up in the exhaust Tee and will help you to decide how frequently more extensive cleaning must be performed.

Heat Exchange Tubes

(Recommended Frequency of 2 Days - 2 Weeks*)

ENSURE STOVE IS COLD BEFORE CLEANING HEAT EXCHANGE TUBES.

Remove Fly-ash from heat exchange tubes as follows:

1. Ensure the door is secured closed.
2. Open the hopper lid (see *Pellet Fuel Hopper*, **Page 21**).
3. Using the hole in the handle of the grate scraper tool, "grab" onto the heat exchange rake handle located above the door (in the center).
4. Pull the grate scraper tool back and forth several times (upward and forward, then back) to rake a way Fly-ash from the heat exchange tubes.

NOTE: If a more thorough cleaning of heat exchange tubes is desired, the baffle plate in front of the tubes can be easily removed (slide baffle plate forward until screw heads clear the notches on each side, then remove baffle). With baffle plate removed, use a small brush to clean between tubes (see **Pages 22 and 32**, item #3).

NOTE: The baffle plate should be removed at least once a year to allow for a thorough cleaning.



WARNING

DO NOT USE BRUSH ON HOT STOVE

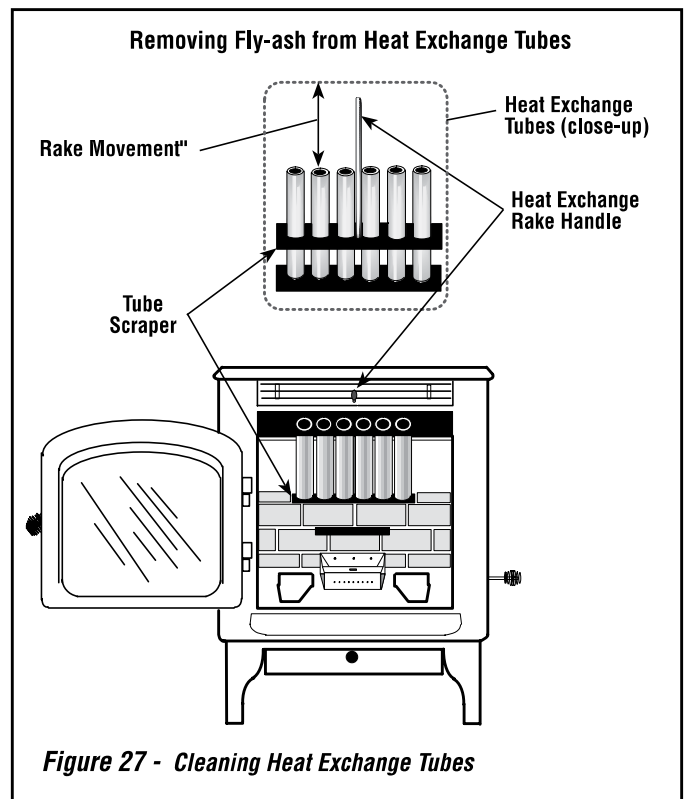
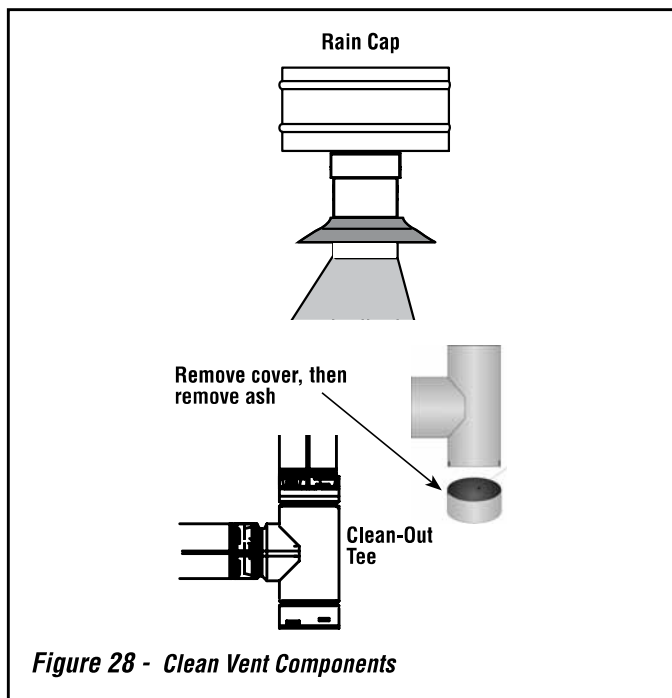


Figure 27 - Cleaning Heat Exchange Tubes



Door Rope Gasket *

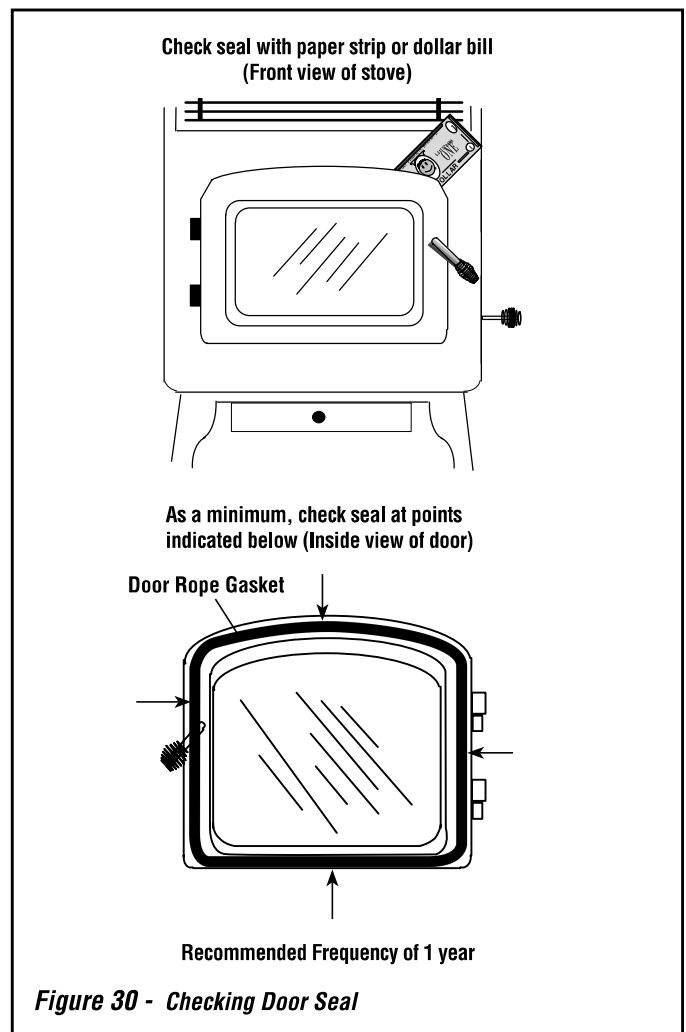
The condition of the rope gasket around the door and windows should be checked periodically and replaced or repaired if necessary. A strip of paper or a paper bill (i.e. one dollar bill) may be used to perform a test of the integrity of the door seal. Close the door on the paper in several different locations and pull. It is normal to feel only a slight amount of friction. The door gasket does not need to be "tight" in all area since a small amount of air drawn into the stove around the gasket is not hazardous or detrimental to the performance of your stove.

Window Wash *

Periodically insert a small piece of cardboard (a business card) between the window trim and the window. Slide the card back and forth a few times to clear any dust or fibers from the window wash gap. Open the door and repeat from the other side of the glass.

NOTE: The air wash gap should be approximately .075" to .090."

*** ENSURE APPLIANCE IS COLD BEFORE PERFORMING THIS MAINTENANCE WORK.**



Rear Stove Compartment

The rear stove compartment should be cleaned periodically (a minimum of once a year).

DISCONNECT ELECTRICAL CORD PRIOR TO CLEANING STOVE.

Any household dust, pet hair or sawdust should be vacuumed or wiped out of the rear compartment of the stove, room air blower, and combustion blower (paying special attention to vacuuming out the intakes of both blowers). The electrical components should be wiped clean.

To access the rear stove compartment, see following illustration and instructions for opening side panels.