

Inspect Gaskets

(Recommended Frequency of Yearly*)

Inspect the condition of the rope gasket around the door and window periodically, and replace if necessary.

Cleaning the Heat Exchanger

(Recommended Frequency of 2 Days - 2 Weeks*)

CAUTION: Do not operate the heat exchange scraper when the stove is hot. The heat exchange scrapers are located to both the right and left sides of the heat exchanger directly above the glass door (see **Figure 38**). To remove ash build-up and maintain efficient heat extraction from the stove, the two rods attached to the scraper should be pulled back and forth with even pressure at least once a week. Be sure to make sure the rods and scraper are seated all the way back down before you close the front cast iron door.



WARNING

DO NOT USE BRUSH ON HOT STOVE

Flue Passageways Cleaning Procedure

(Recommended Frequency of Twice Yearly*)

1. Open both the right and left side castings to locate flue clean-out covers (see A in **Figure 36** along with B and C in **Figure 37**).
2. There is one flue clean-out cover on the right side (see A in **Figure 36**) and one lower and upper passageway on the left side (see B and C in **Figure 37**).
3. Using a 5/32" allen remove allen head screws on each cover to access the flue passageway cavities.
4. Using an ash vacuum, clean out all flue passageways on both the left and right side of the stove starting at the top then going to the lowers.
5. Check flue clean-out cover gaskets for any damage and replace if necessary.
6. Once the flue passageways are clear of ash build-up, reinstall the three cover plates.

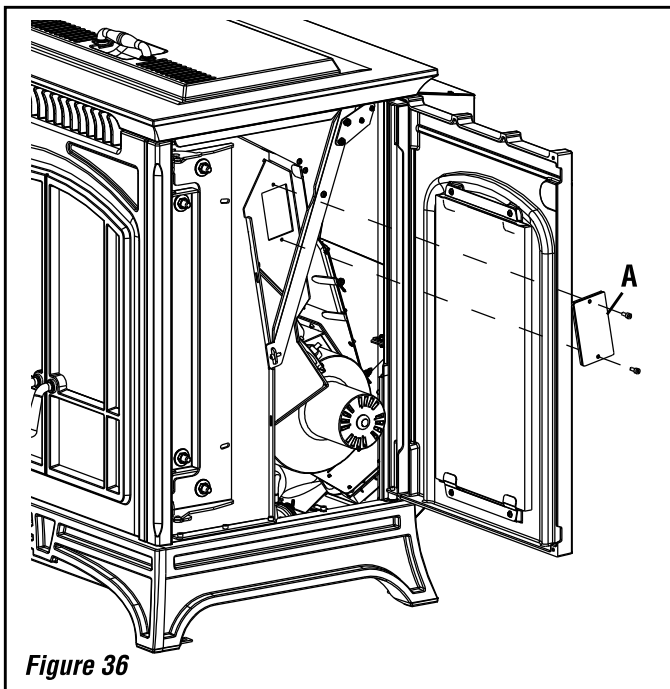


Figure 36

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

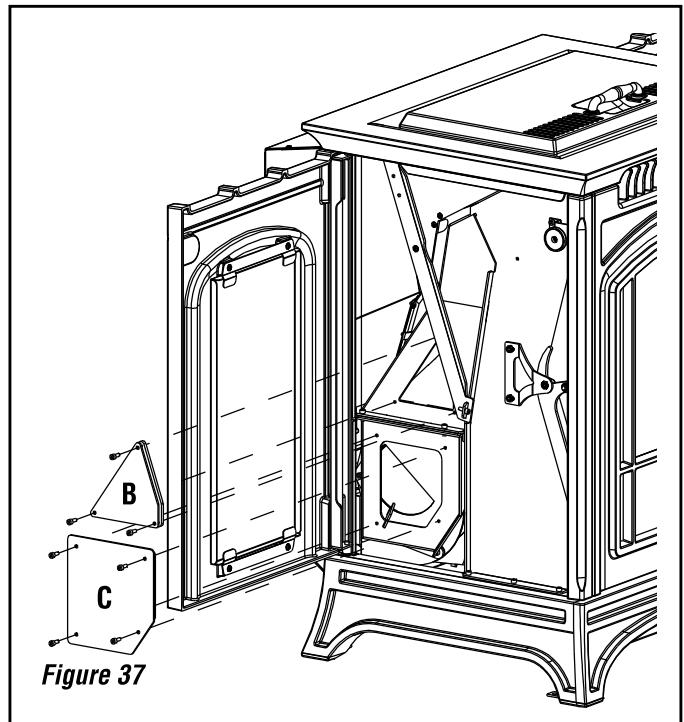


Figure 37

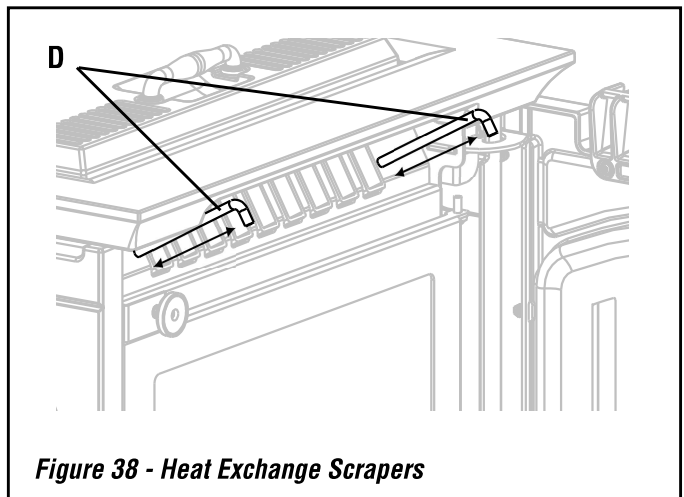


Figure 38 - Heat Exchange Scrapers

Cleaning the Combustion Blower and Proof of Fire Switch

(Recommended Frequency of 1 year or after every 100 bags of fuel used*)

To clean the combustion blower, begin by unplugging the stove, opening the left side door and locating the combustion box clean-out cover in the lower left corner of the stove (C in **Figure 37**). Using a 5/32" allen wrench remove the four screws securing the cover. Once the cover is off, gently brush off the blades as well as the Proof of Fire switch (the small circular object just behind the blades near the bottom. **Figure 39**) and vacuum out all loose ash. When clean, inspect the silicone foam gasket on the cover for damage, replace if necessary and reinstall the cover being sure to tighten the bolts down evenly.

NOTE: Failure to clean the proof of fire switch when needed may result in nuisance shut-downs. When heavy ash, creosote or soot are built up on the proof of fire switch, it may require cleaning with a medium abrasive pad or sheet. These heavy build ups insulate the heat sensing area of the switch and keep the switch from functioning as intended.

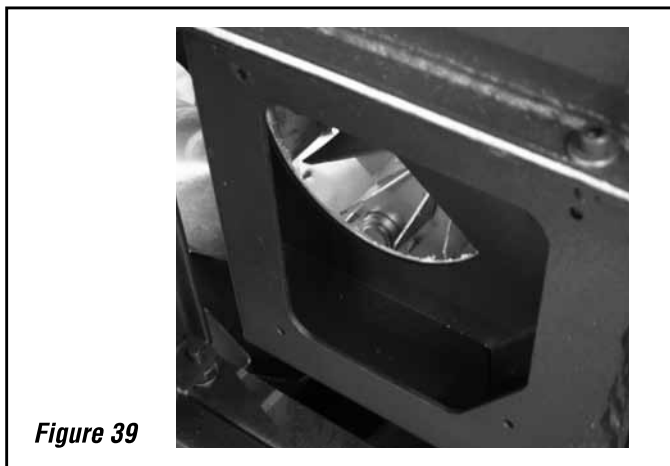


Figure 39

Rear Cover Removal

There are three removable covers on the rear of the stove. For normal maintenance, the lower main cover (**Figure 40**) should yield sufficient access to all necessary components. It may be necessary to remove the lower side and bottom covers for the initial installation.

Removing the Lower Main Cover:

1. Unplug stove.
2. Locate the cover (**Figure 40**), using a 5/32" allen wrench, loosen the two screws on the bottom of the panel (it is not necessary to completely remove them).
3. Using an 1/8" allen wrench, remove the six screws attaching the top and right (next to the flue) sides of the cover.
4. Remove by pulling the cover directly back just far enough to clear the cast iron side door, and then out.
5. Reverse steps to reinstall.

Removing the side cover:

1. Locate the side cover in the left rear portion of the stove (**Figure 41**) near the combustion blower and flue.
2. Using an 1/8" allen wrench, remove the 3 screws attaching the cover.
3. Remove cover.

Removing the bottom cover:

1. Locate the bottom cover (**Figure 41**) underneath the flue and air intake.
2. Using an 1/8" allen remove the three screws fastening the bottom cover to the stove base and lower main cover.
3. Using a 5/32" allen wrench loosen the two screws on the bottom edge of the cover. **NOTE:** It may be necessary to loosen the two screws which attach the lower side cover to the base as well.
4. Remove bottom cover.
5. To reinstall, repeat steps in reverse order.

Rear Stove Compartment

(Recommended Frequency of Yearly*)

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.

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

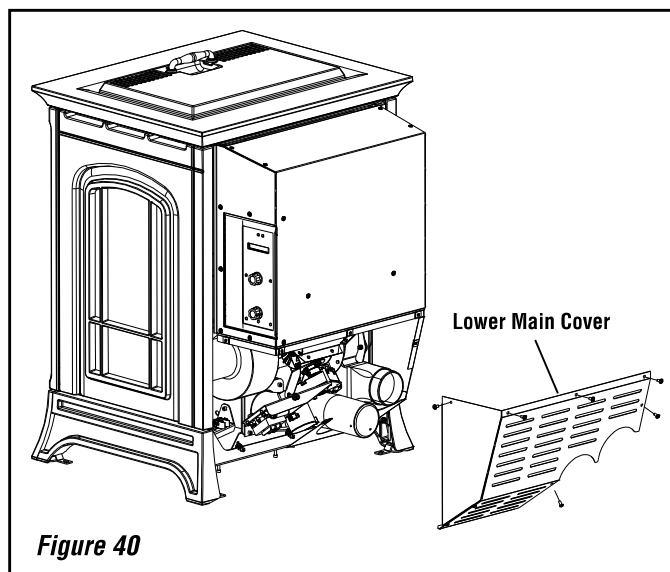


Figure 40

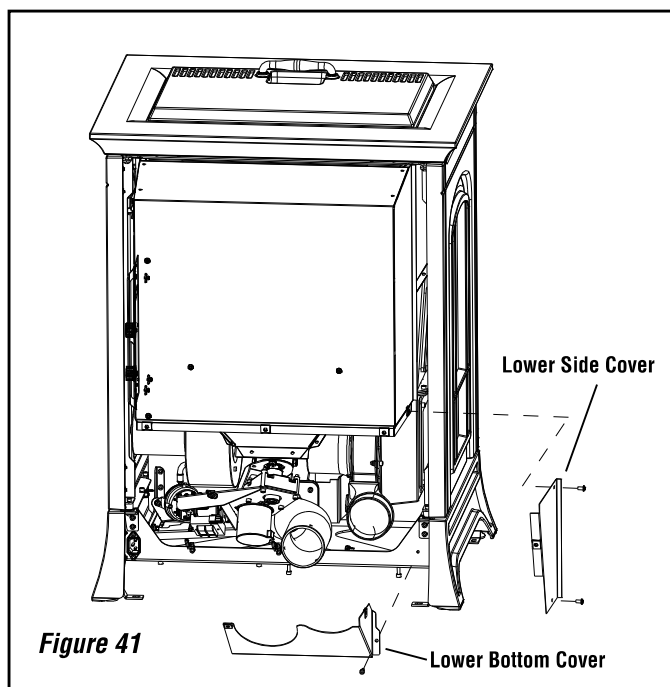


Figure 41

Cleaning the Vent Pipe

(Recommended Frequency of Yearly*)

Soot and Fly-Ash: Formation and Need for Removal - The products of combustion will contain small particles of fly-ash. The fly-ash will collect in the exhaust venting system and restrict the flow of the flue gases. Incomplete combustion, such as occurs during start-up, 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. Inspect frequently and clean when necessary. Fly-Ash will accumulate at all bends in the exhaust system. Sweep the pipe as needed. A tee and clean-out in the vent system attached to the stove's flue collar will facilitate this cleaning.

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