

American Energy Systems Inc *Information Bulletin*

Product models covered: Country Flame Crossfire models (CF-O4-Corn, CF-O4-Pellet, and CF-O4-Flex)

Topic: This informational bulletin will be addressing maintenance to the Country Flame Crossfire models, cleaning procedures, weekly, monthly, seasonal cleanings, recommended areas to clean, detailed instructions and cleaning tools needed.

Procedure:

A Crossfire stove will require general cleaning. During heavy use, daily cleaning of the firebox and or under the Fire-Pot may be required. Allow the ash in the fire box to completely cool before removing the waste with an industry approved ash vacuum.

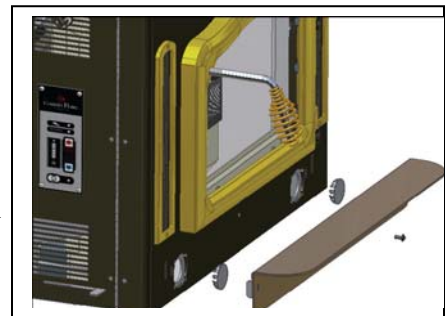
Weekly: Check firepot and remove any un-burnt ash from the inside. It may be necessary to clean the firepot prior to each time the stove is lit. Pull the heat exchanger rod to remove any ash from the tubes. Use an approved ash vacuum to clean the firebox interior to remove any debris. Clean door glass as required, per instructions.

Monthly: Turn off stove and let cool. Perform weekly maintenance along with the inspection of the exhaust vent for ash build up. The exhaust system should be inspected and cleaned to ensure proper venting.

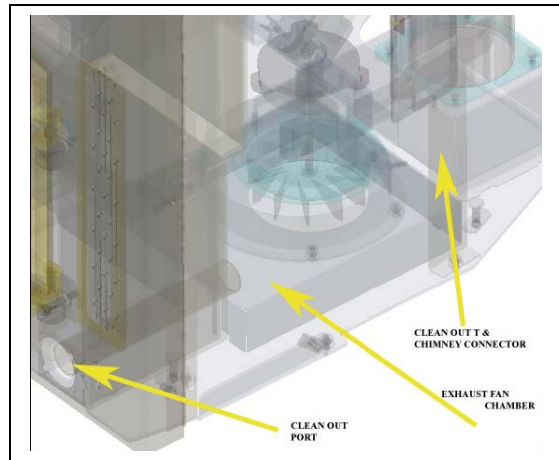
Seasonally: Have your pellet or corn system inspected, cleaned and certified by your dealer or other qualified technician. Remember, there are around 20 pounds of ash per ton of pellets that can ultimately clog your system if it is not properly cleaned.

Country Flame has designed the Crossfire to make cleaning as simple as possible. In fact, Country Flame designed the Crossfire so that it does not require removal from the fireplace in order to be properly cleaned. The following figures show how to access the cleaning ports on the Crossfire.

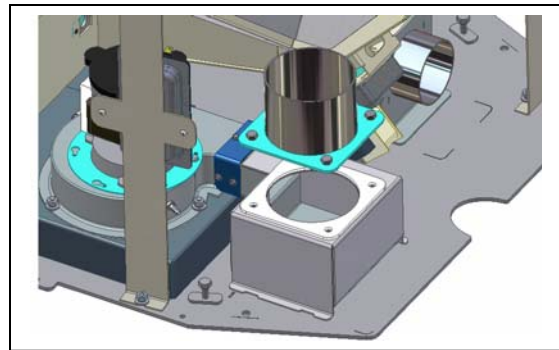
In order to thoroughly clean the exhaust chamber, the Crossfire has two cleaning ports that provide access to the exhaust chamber. In order to gain access to these clean-out ports, the hearth plate must be removed from the front of the stove. (Picture shows the hearth plate removed from the stove.) There is one screw, out located in the front center of the hearth plate that must be removed before the hearth plate can be lifted up and out of its location. Note that the hearth plate has two tabs located on the left and right side. Once the screw has been removed from the center of the hearth plate, the hearth plate can be lifted (gently tapped) upward to remove it from its locked position. Once the hearth plate has been removed and set aside, along with the screw, the clean-out port caps can be removed. (Picture shows the cap locations behind the hearth plate.) Once these caps are removed, the clean-out ports are now accessible. An ash vac can be used to remove any ash or debris that has accumulated in the exhaust chamber. Removal of this ash and debris will allow the stove to draw more air and thus burn with a greater efficiency. Failure to clean out these areas over a period of use can lead to one or both exhaust chambers becoming blocked and thus causing the stove to burn inefficiently.



As shown in this x-ray view into the clean-out port of the right side of the stove. This right side clean-out port allows access to the exhaust chamber and underneath the exhaust fan itself. To clean properly, the ash-vac hose adapter needs to be inserted all the way into the exhaust fan chamber. The chimney connector – clean out box is not accessible from the front of the insert. A powerful ash-vac will be able to suction a considerable amount of ash from the chimney box thus assisting in proper maintenance of the stove.



The chimney adapter can be removed by taking out the 4 hold down bolts as shown. Cleaning this area of the insert is part of the recommended yearly maintenance. The system can be cleaned from atop the chimney. By using the reverse suction of a powerful leaf blower, all ash from the exhaust chambers can be removed easily. The unit can be pulled out of the fire place to remove the adapter, and then ash-vac the exhaust box out.



In the event a Crossfire system requires cleaning of the chimney to remove debris or ash, the Crossfire will require removal from its hearth installation in order to remove the chimney connector. This should not be necessary except under the most extreme operating conditions or in the event an animal has obtained entrance to the top of the chimney and built a nest inside the chimney. A certified chimney sweep should be contacted, as they may have the equipment to clean the chimney from roof level thus eliminating the requirement to remove the Crossfire from its hearth installation. Whatever time is spent maintaining and cleaning the Crossfire should be viewed as improving both the burn efficiency and the heat output of this product. For additional detailed maintenance instructions, see owner's manual. If questions do arise, do not hesitate to contact your Country Flame Dealer for additional information.