



Technical Data Sheet

H-III Spin Draft Retrofit Kit / Convert an Electronic to Manual *Assembly #93-58315*

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ASSEMBLY CONTENTS:

Spin Draft Knob
3/16" x 1-1/2" Stud
(2) 5/16" x 1/4" Set Screws
Manifold Gasket
Manual Cover Plate
(2) 3/16" Nuts

TOOLS REQUIRED:

Power Drill
5/16" Tap
3/16" Punch
5/16" Drill Bit
3/8" Tap
1/8", 5/16 & 3/4" Drill Bits
5/32 Allen Wrench
Hammer
Screwdriver
9/16" Wrench
7/16" Wrench & Socket

BEFORE YOU BEGIN: Work on a cold stove. Thoroughly clean the ashes from the interior of the stove. Disconnect the stove from the venting (this will be necessary to install the spin draft). If you are converting from the electronic air control system to a manually controlled air system, unplug the power cord.

PROCEDURE:

Part I: Remove the Electronic Control (skip to Part II if your are installing the spin draft on a manual unit)

1. On electronic models, disconnect the wiring by pulling the two plugs out of the control box. The two probes can now be pulled out of the back of the stove.
2. Thread the open holes with a 5/16" tap. Insert the 5/16" x 1/4" set screws using the 5/32 allen wrench. Turn until they are flush to the outer edge of the cast iron.
3. The primary air control can be removed from the ash dump. A 7/16" wrench can be used to hold the 1/4" bolts on the exterior of the ash dump. Now, go through the ash pan door with a 7/16" socket to remove the 1/4" nuts. This will free the intake for removal.
4. The Manifold gasket and cover plate can be bolted against the ash dump to seal this opening. The same bolts that held the intake in place can be used to secure this plate.
5. Remove the electronic control and hanger by removing the 9/16" nuts that secure it to the 9/16" threaded rod on the left underside of the stove.

Part II: Install the Spin Draft

1. With assistance, carefully tip the stove backwards until it is resting on the bottom of the secondary combustion chamber. Care should be taken not to chip enameled surfaces.
2. Locate the pins on the right hand side of the ash door. Tap out the bottom pin with a 3/16" punch and hammer. Tap the top pin up as far as possible – it will not come out but will go far enough to allow you to remove the ash pan door.
3. Lift the ash door off the stove.
4. Cut out the attached template along the dotted lines and tape it onto the ash door.
5. Mark the center of each hole. Drill a 1/8" pilot hole through the mark in the center of each hole. For the four outer holes, gradually increase the hole sizes to until you have four 3/4" holes. We recommend following the 1/8" bit with a 5/16" bit then the 3/4" bit.
6. Drill the center hole with a 1/8" bit then a 5/16" bit. Thread the center hole with a 3/8"-16 tap.
7. Put the ash door back onto the stove and replace the hinge pins (use a flat screwdriver to pry the top pin back down into place).
8. Turn the 3/8" nut onto the threaded stud. Turn the threaded stud into the newly threaded hole in the ash door with the nut on the inside. Allow approximately 3/4" of the stud to come through the outside of the ash door. Tighten the nut against the inside of the ash door.
9. Turn the spin draft knob onto the exposed portion of the threaded stud. Make sure it can turn flush against the ash door. Adjust if necessary.

Part III: Operation

1. When starting a fire, or invigorating a sluggish fire, allow air into the stove by opening the spin draft (rotating the spin draft counterclockwise). Once a brisk fire is established, turning the spin draft clockwise will restrict the primary air entering through the spin draft. The spin draft is now the primary source of combustion air for non-catalytic stoves. The more you open the spin draft, the hotter and quicker your stove will burn. The spin draft is closed when it is flush against the door. Some experimentation will be needed as the draft and fuel quality will also affect the burn rate. A stovepipe thermometer can be a helpful device to help establish a desirable burn rate (the thermometer will indicate the optimum range of operation).

NOTE: If your H-III is equipped with a catalytic converter, use the spin draft as a quick start device only. Using the spin draft as the primary air source for a catalytic stove will bypass the intended air path and hinder the proper combustion process.