

Fireview Model 205: W-160K Basic Combustor Pan Kit & W-160CK Complete Combustor Pan Kit

Rev. Date 6/30/2025

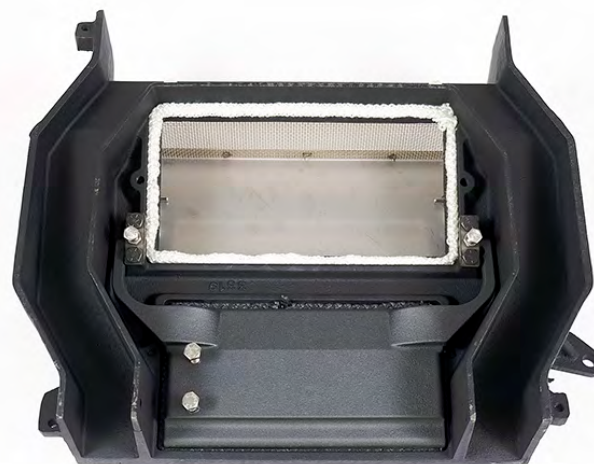
Parts Needed:

W-160CK Combustor Pan Kit:

W-160 Combustor Pan
K-801 Scoop Kit (complete kit)
W-253 Bypass Cover
W-164 Bypass Frame
W-168 Bypass Retainers
W-172 Air Chute (complete kit)
W-2489 Eye Bolts (2)
1/4" (.250) Gasket
1/2" (.500) Gasket
Split Flat Adhesive Gasket
Furnace Cement

Tools Needed:

7/16" Socket or Nut Driver
1/2" Wrench or Socket
9/16" Socket
5/32" Allen Wrench (older models)
Needle Nosed Pliers
Large Flat-Blade Screwdriver
Caulking Gun
Scissors
Putty Knife
Wire Brush
Penetrating Fluid: PB Blaster, WD-40, Kroil



*The combustor pan kit will arrive partially sub-assembled with many of the gaskets and parts already installed.

1. Make sure the stove is cool.
2. Remove the top lid of the stove by lifting straight up with the lid open. The hinge is not attached and the top will lift off. **Note:** The top lid assembly weighs roughly 40 lbs.



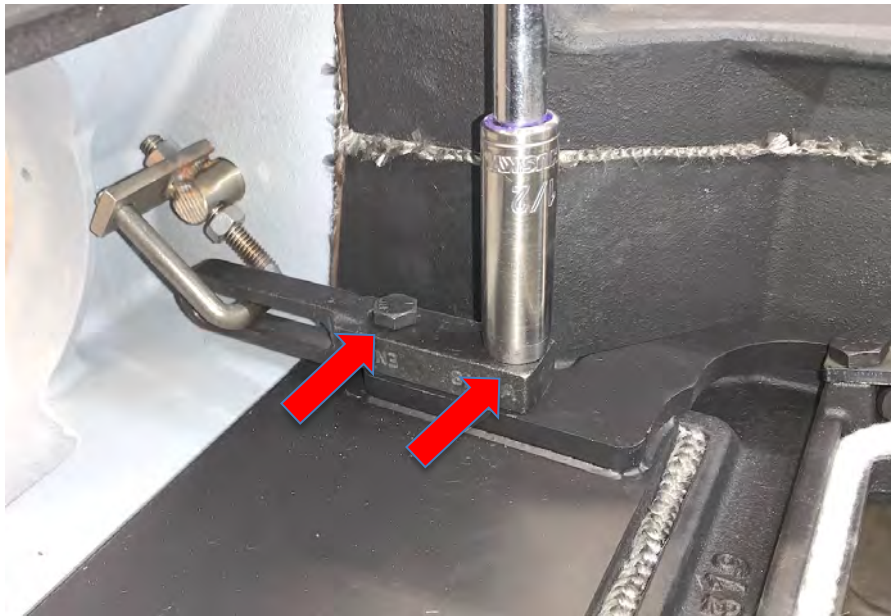
Woodstock
Soapstone
Company, Inc.

66 Airpark Rd., West Lebanon, NH 03784
Phone: 1-800-866-4344
Email: info@woodstove.com
Web: www.woodstove.com

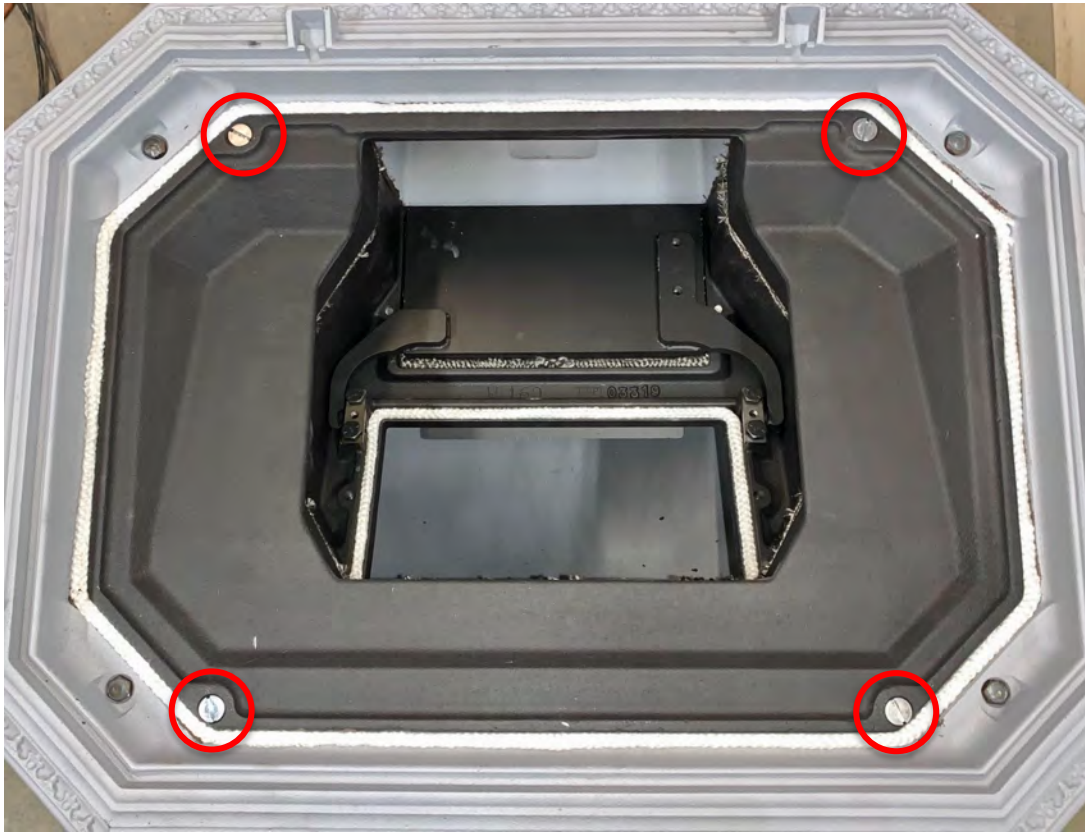
3. Using a 1/2" wrench or socket, remove the two bolts that hold the K-530-SS catalytic combustor in place.



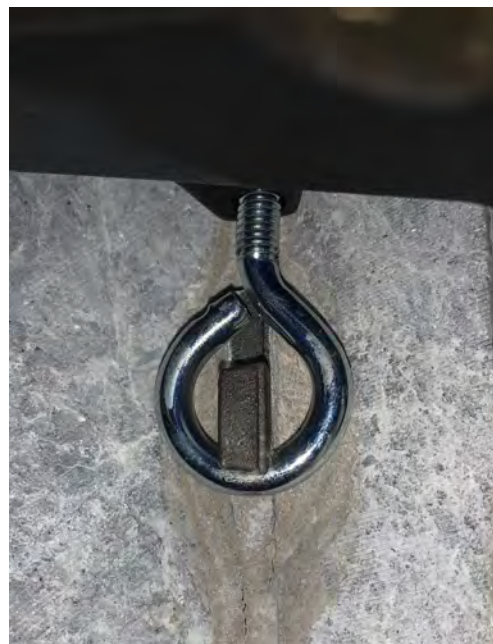
4. Using a 1/2" wrench or socket, detach the bypass lift guide (W-178) by removing the two bolts that attach it to the top side of the bypass door (W-253).



5. Using the large flat blade screwdriver, remove the four bolts that hold the W-163 air duct cover (top half of the combustor pan assembly). **Make a note of their positions as all the screws are not the same length. Lift the cover up and off the assembly.**



6. Using a 9/16" socket remove the two nuts from the two eyebolts that hold the combustor pan to the vertical supports. The nuts are found in the front right and back left corners, and the eye bolt is physically located in the firebox. Remove the eyebolts by tilting the eye off from the supports and pulling them downward.

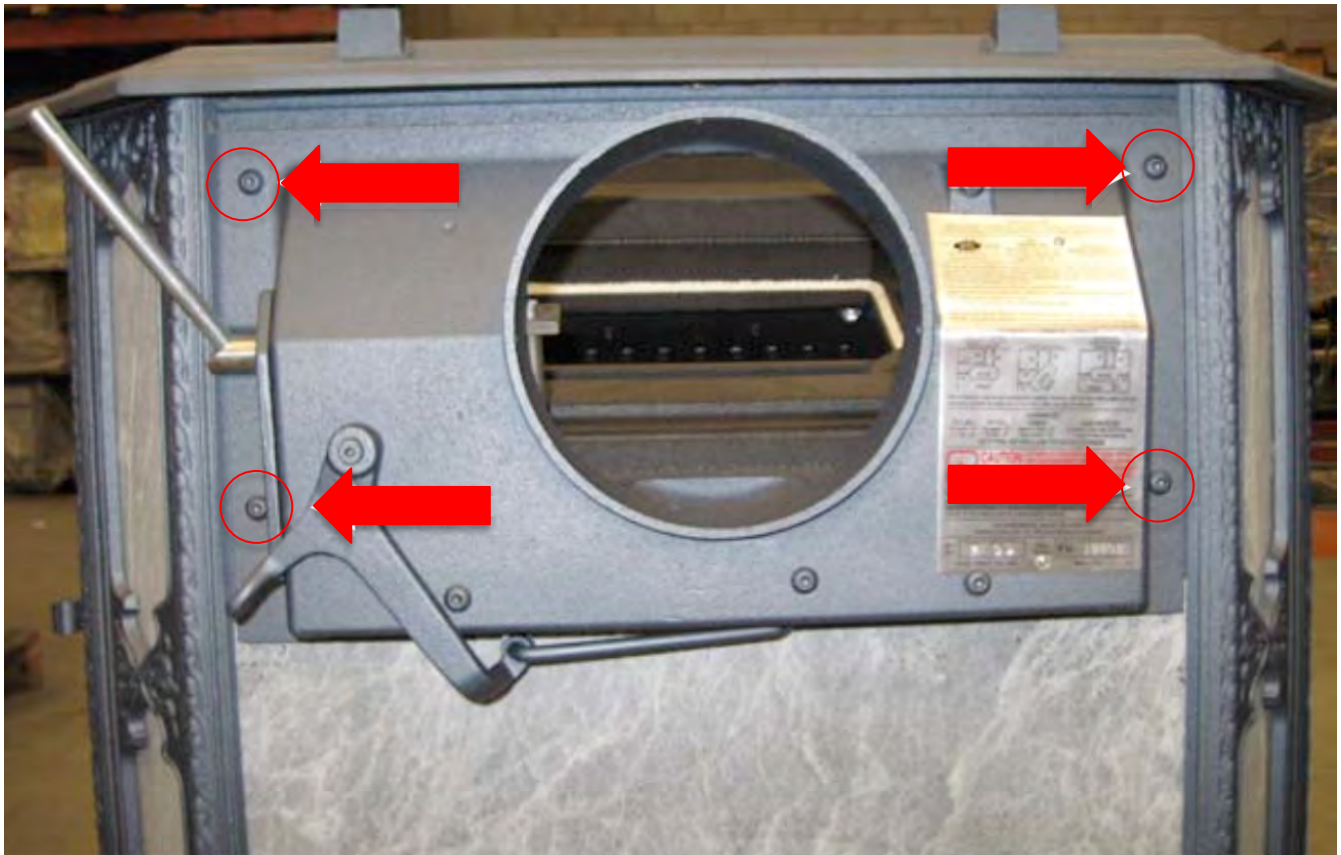


7. Apply a penetrating liquid to the flue collar bolts shown below and allow the penetrant to soak. Remove the W-161 flue collar from the back of the stove by removing the four button head cap screws using a 5/32" Allen wrench (more current models will have hex head bolts). The button head bolts will be replaced with hex-head bolts included in the kit.

Set aside flue collar for gasketing and reinstallation.

If you have difficulty removing the button head bolts, try the following steps:

- 1) Use a racket with a 5/32" Allen head fitting. Place the Allen head fitting into the button head bolt, then use the racket with a hammer to drive the Allen head into the bolt. Try turning the bolt out.
- 2) If the method above does not work, move onto drilling out the hardware. Start with a sharp 1/8" drill bit. If you are still unable to remove the button head bolt after running the 1/8" bit through, step up to a #4 drill bit. A video of this process can be found on our YouTube page:
<https://www.youtube.com/shorts/JhY9LSLpnEI>



8. Next, open up the side loading door to access the scoop kit for removal. Depending on the age of the stove and maintenance done, the scoop kit will be made of either cast iron with an expanded metal screen, or an all stainless-steel assembly held up with cotter pins. Use step 9 for the cast iron assembly and step 10 for the stainless steel assembly.

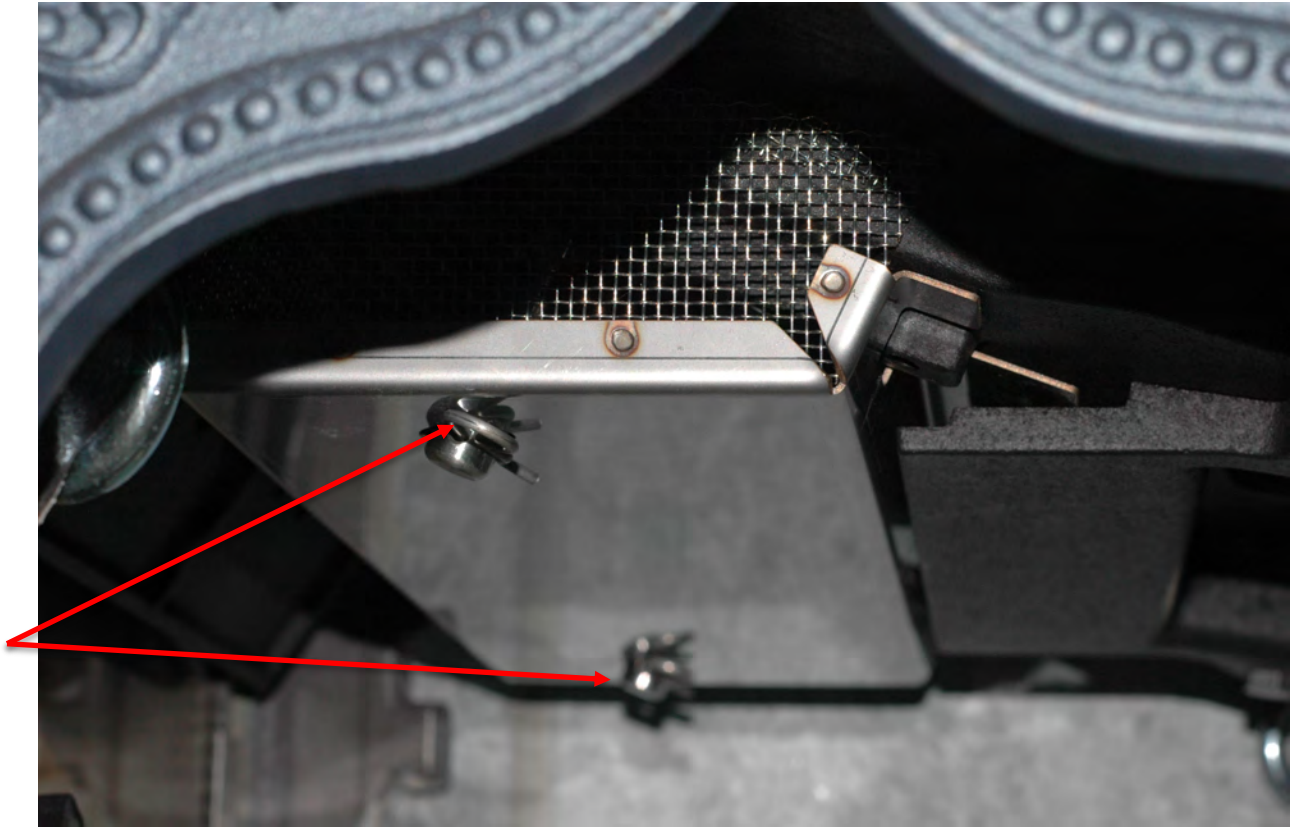
9. **CAST IRON SCOOP:** Reach into the firebox to remove the single bolt that attaches the combustor scoop to the scoop support with a 1/2" socket or wrench. Carefully slide the scoop toward the loading door and forward to completely release it. **Use work gloves when handling the expanded metal screen. It is extremely sharp around the edges.** If you have ordered the basic combustor pan kit you will reuse your existing scoop kit.



Remove this bolt to take the original cast iron scoop out of the stove.

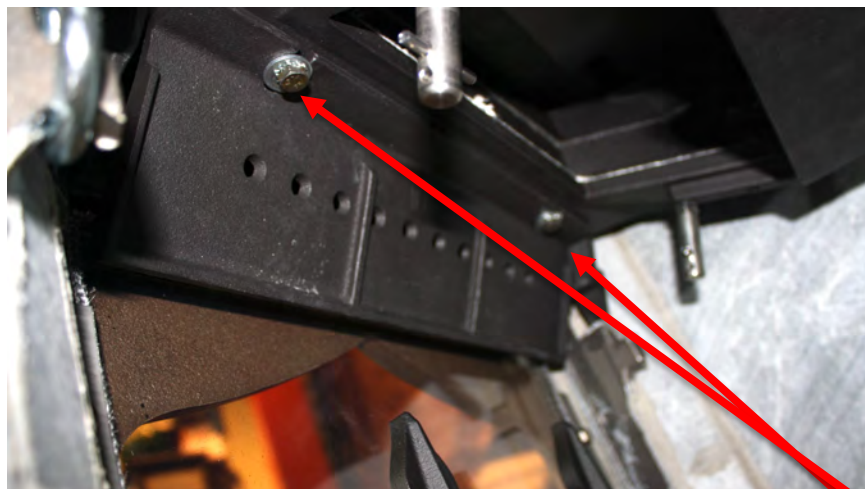


10. **STAINLESS-STEEL SCOOP:** Using needle-nosed pliers, reach into the firebox and remove the two cotter pins from the underside of the scoop assembly. With the pins removed take the scoop assembly (plate & screen) out of the stove. If you have ordered the basic combustor pan kit you will reuse your existing scoop kit and now is a good time to move over the scoop posts.



Remove the two cotter pins, shown above, using needle-nosed pliers

11. With the scoop kit removed look through the loading door, towards the glass, and up to the ceiling to locate the W-172 air chute. The air chute has 10 holes across it and is held in place with two hex-head bolts. Use a 7/16" wrench to remove the two hex-head bolts and washers. The bolts run through two "U" slots, keep a hand on the air chute so it does not fall once the hardware is removed. Remove the air chute from stove. If you have ordered the Basic Combustor Pan kit you will reinstall this air chute on the new pan.



Remove hardware using 7/16" wrench or socket

12. From the top of the stove place one hand through the combustor opening and pull the combustor pan (W-160) up and out of the stove.



13. With the combustor pan out of the stove, if needed, now is a good time to reseal the vertical and horizontal internal cement seams where stone meets stone and where stone meets cast.
14. Dry fit the new combustor pan into the stove making sure no additional grinding is required for fit. Remove the combustor pan and set aside for step 17.
15. Before installing the new combustor pan, run a bead of cement along the edge of the Rear Frame (W-161). The gasket on the underside of the combustor pan will seal to the cement.



Run a bead of cement along the rear frame (marked in red).

16. If the spacers stayed in place when removing the combustor pan, apply a generous bead of cement vertically down the center of each W-175 Spacer.

If the W-175 spacers fell out when the original combustor pan was removed, placed them upside down on a work surface and apply cement to the back of the spacer. Next attach each spacer to the stone above the glass, the spacer will align with the cast iron that juts out on the right and left of the glass. With the spacers in place, fill the channel on each spacer with furnace cement.



1. Apply cement to the back of the two spacers.



2. Attach the spacers to the stone above the glass.



3. Align the two spacers with the cast iron that juts out on the right & left of the window.



4. Fill the channel on each spacer with furnace cement.

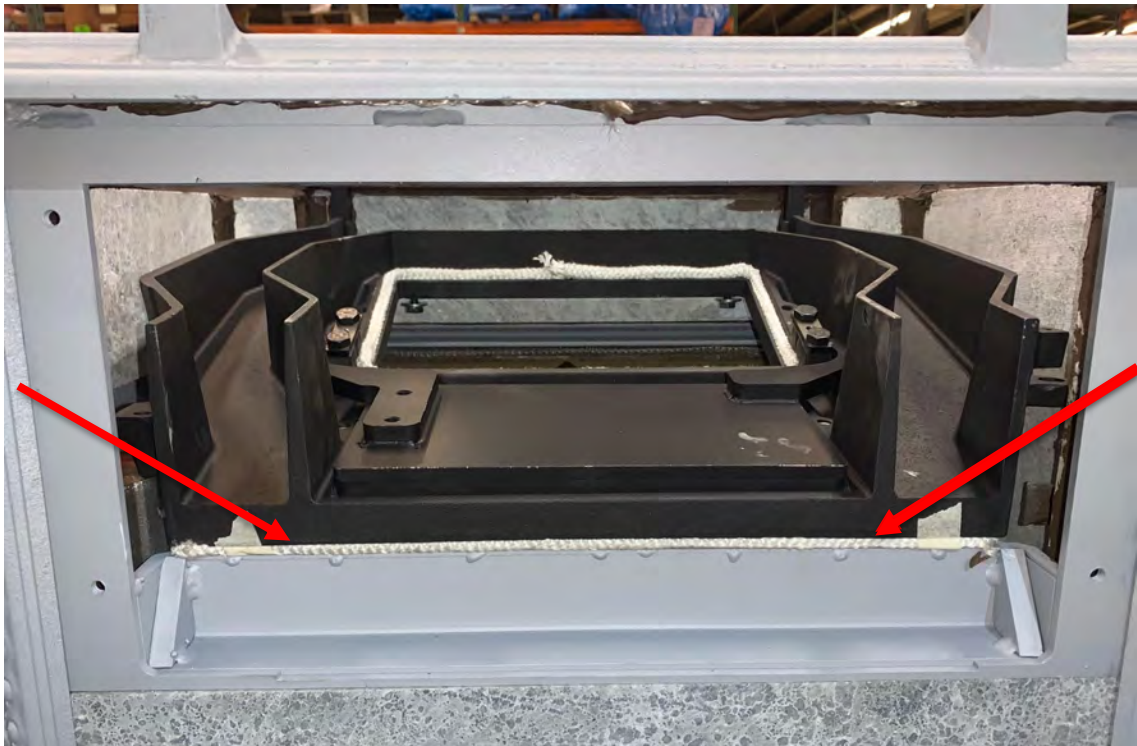
17. Install the new combustor pan, aligning it so that it is centered to the edges of the Rear Frame making sure that the rear face of the Rear Frame and Combustor Pan is flush. The front rails of the combustor pan should fit inside the cemented channel in the two front Spacers (W-175).



Set combustor pan into the stove.

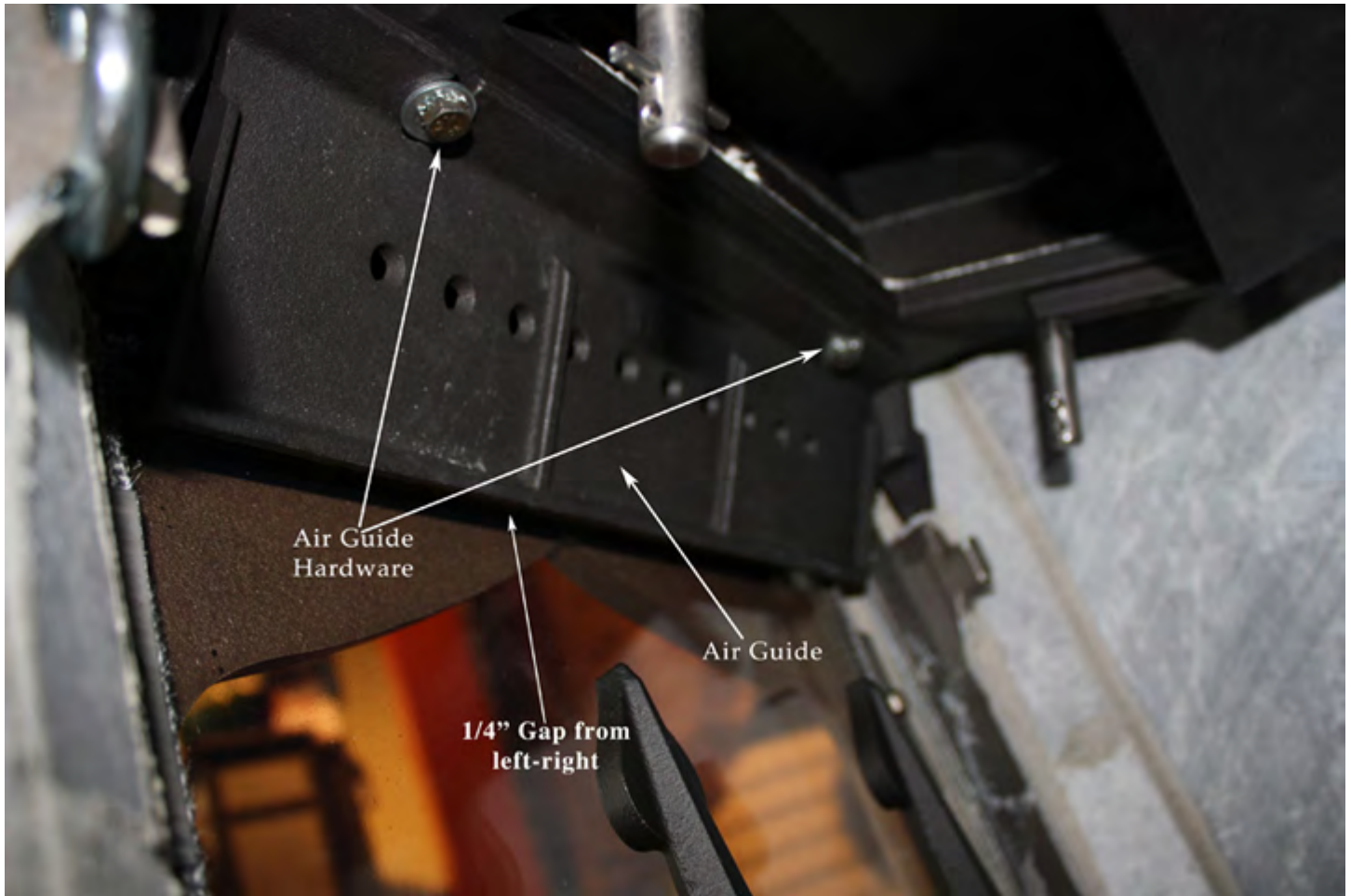


The front rails of the combustor pan fits into the cemented channel in the spacer.

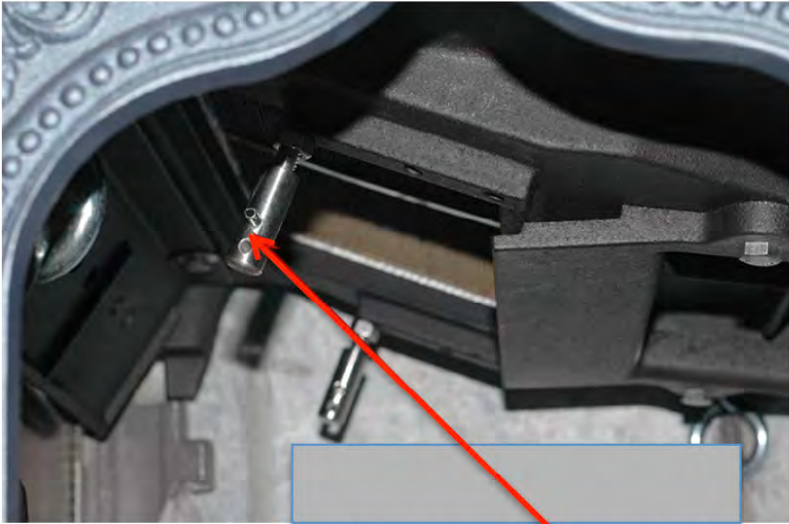


The back of the combustor pan and the rear face of the rear frame should be flush.

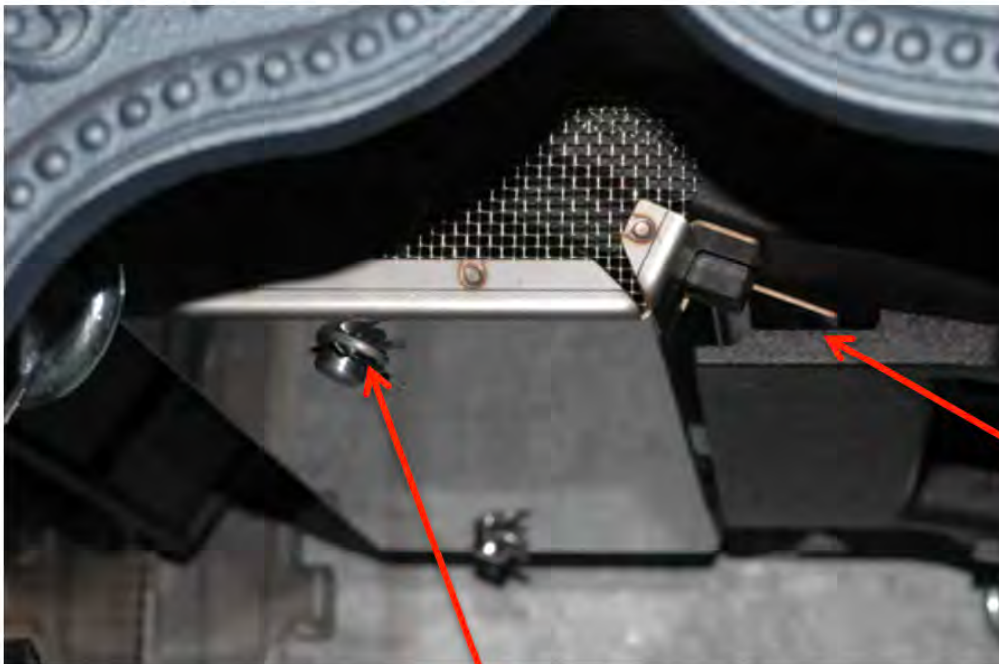
18. Install the eyebolts in the front-right corner and the back-left corner (when facing front of the stove) and tighten the nuts with a 9/16" socket.
19. Install the new air guide or install your original air guide (basic combustor pan kits). The hardware is already loosely installed on the new combustor pan. Align the air chute "U" slots up with the hex-bolts. Slide the air chute back and start to tighten the bolts using a 7/16" socket or nut driver. The air chute is adjustable and there needs to be a 1/4" gap between the guide and the window glass for proper air flow. Use a 1/4" drill bit as a measuring device for proper setting before tightening it completely. It can help to keep the 1/4" guide between the air chute and the glass to prevent the air chute from moving forward.



20. Install the K-801 Scoop Kit or move over the scoop kit that you are reusing (basic combustor pan kit). Slide the back edge of the scoop plate into the lip of the bypass frame. Raise the front edge and guide the holes of the scoop plate over the posts. The top of the screen should touch the top of the firebox. Be sure the screen clears the air chute. You may need to push in on the screen slightly to allow it to clear the air guide.



Scoop plate is sandwiched between the top roll pin and the cotter pin.



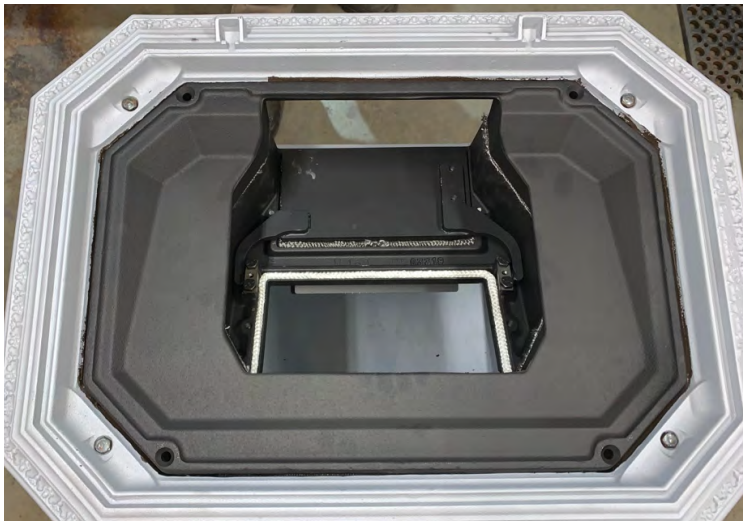
The back lip of the stainless scoop will be supported by lip of the bypass frame.

The cotter pin is installed below the scoop plate

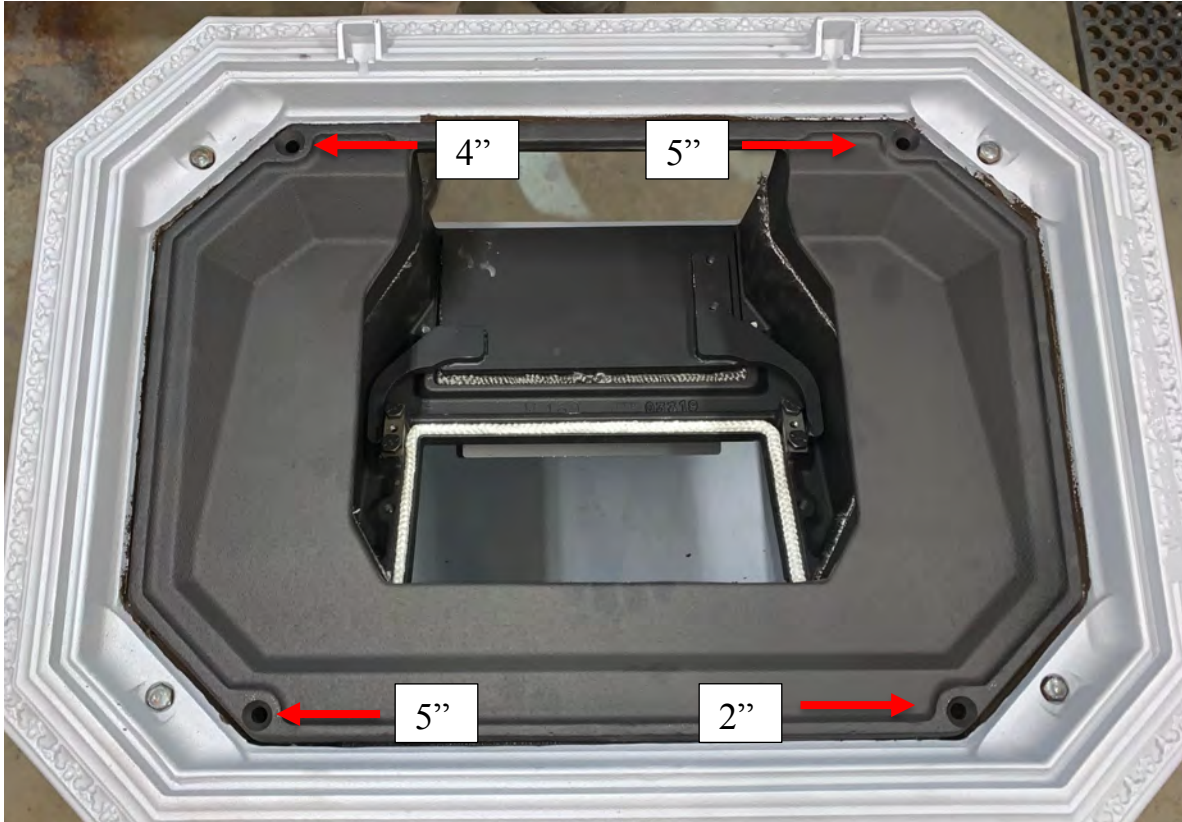
21. Take the air duct cover (removed in step 5) and turn it upside on a work surface. Remove any remaining gasket from the channel risers. Locate the flat, adhesive backed air duct cover gasket (this gasket will be used again in step 25). Install the gasket onto all three air channel risers. The gasket has a taped backing, once the tap is removed the adhesive is exposed. Place the adhesive side down onto the cast channel risers.



22. Install the air duct cover on to the combustor pan. Move the cover as needed to align it with the four holes in the combustor pan.



23. Install the four flat head screws into the air duct cover as follows: 2" in the right front, 4" in the left rear, and 5" into the left front and right rear, tighten using a large flat-blade screwdriver.



24. Place the W-161 Flue Collar (removed in step 7) on a work surface and remove any residual gasket and cement using a putty knife and wire brush. Locate the remaining flat adhesive backed gasket used in step 21. Apply the gasket on the inner U and on the two outer vertical rails.



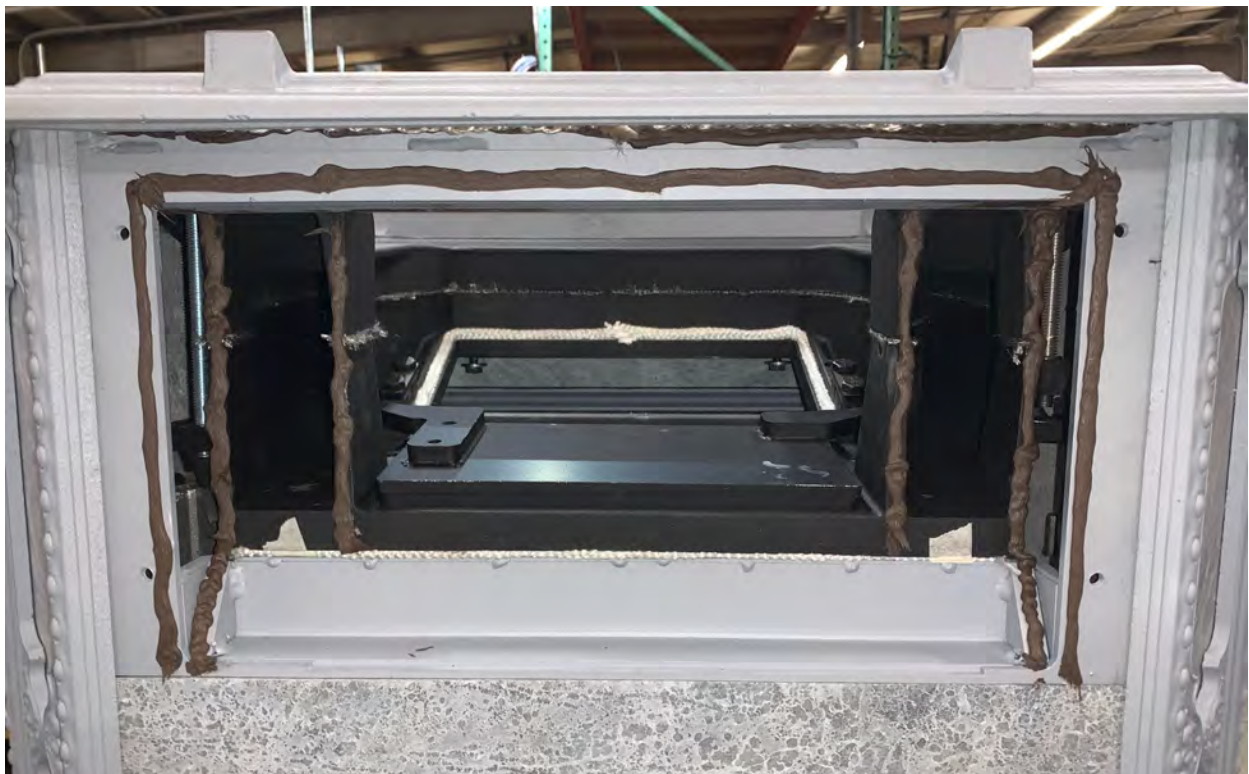
25. Apply Cement along the bottom of the inside face of the flue collar and to the four flat sections at the top of the flue collar.



26. Before installing the flue collar apply cement down the outer most vertical channel (both sides) where the airduct cover meets the combustor pan and then down the triangular ramp on the rear frame and down the vertical inside channels where the airduct cover meets the combustor pan.



27. Apply cement to the flat of the rear frame up both the right and left side keeping the cement between the tapped flue collar holes and the inner edge of the frame, and along the top edge.



28. Apply anti-seize to the threaded holes for the flue collar and then attached the flue collar using the (4) provided hex-head bolts and flat washers.



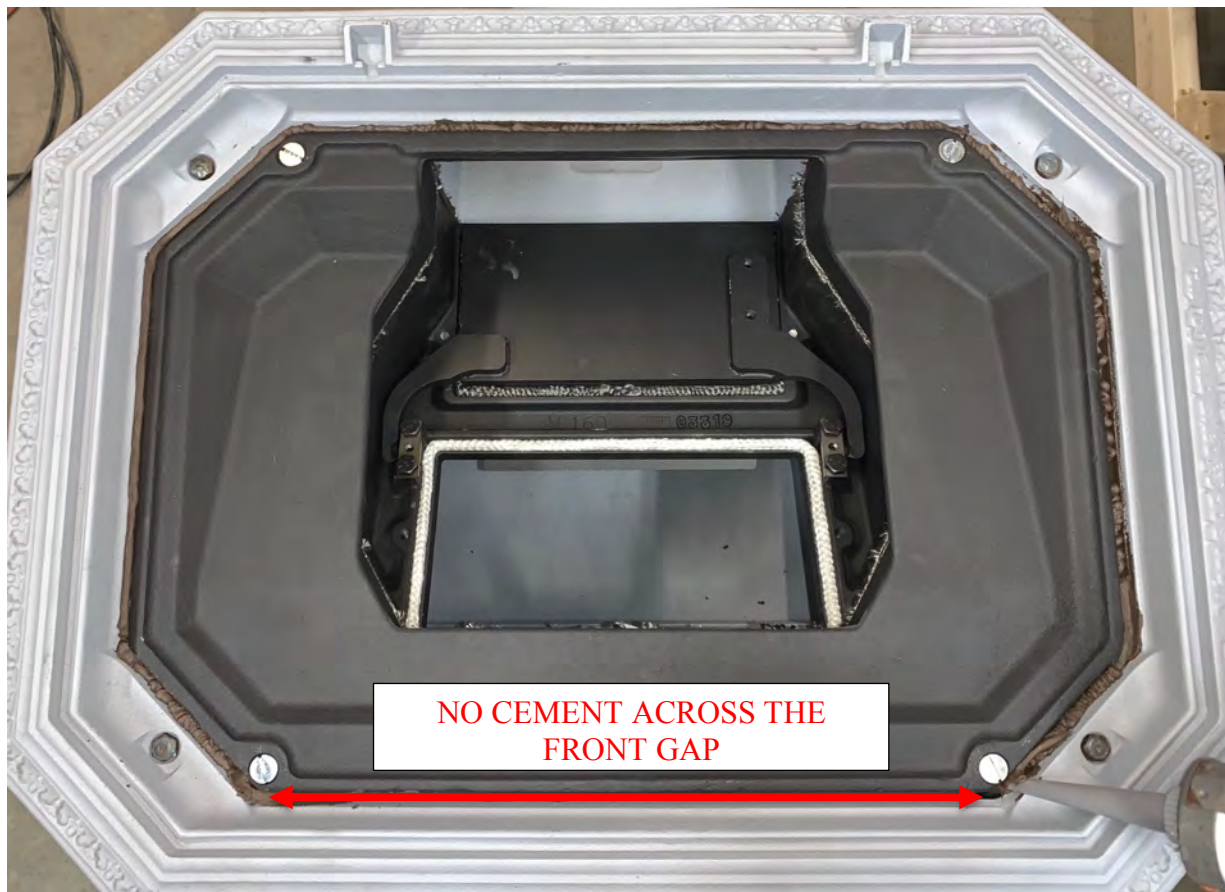
29. Attach the bypass lift guide to the bypass door using the provided hex-bolts and tighten using a 1/2" wrench or socket. Adjust the U-bolt to achieve a good seal between the bypass door and the gasket.



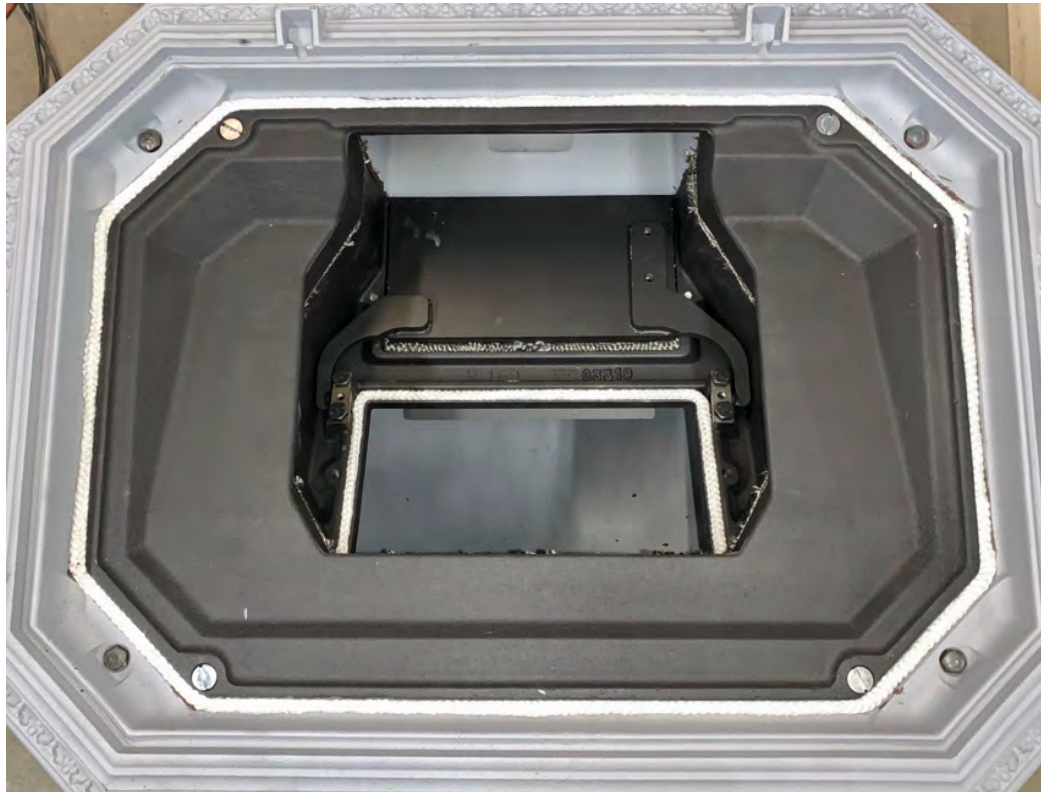
Test the seal between the bypass cover and the gasket using a slip of paper. Close the bypass cover on the paper. There should be enough resistance on the paper to slightly curl it when it is pulled out.

Adjusting the U-Bolt: To increase pressure on the bypass door, loosen the top nut on the U-bolt, and then turn the bottom nut counter clockwise. To decrease pressure on the bypass cover, turn the bottom nut clockwise, and do the same to the top nut. Make small adjustments until the proper seal is reached. The Bypass Actuator Handle should be in the full upright position when the Bypass Cover is closed.

30. Find the bag with ¼” white rope gasket. Starting at the front corner, apply cement into the space between the air duct cover and the top cast frame continue applying cement until you reach the opposite front corner. *The gap at the front of the stove does not get cemented.*



31. Starting at one of the back corners press in the ¼” rope gasket using a putty knife. If you press the gasket too hard it will go through the gap and into the stove. The gap around the perimeter will vary and the gasket may need to be stretched or pressed back onto itself to seal the perimeter. Continue installing the gasket all the way around the perimeter of the air duct cover, use scissors to cut the gasket and then butt the two gasket ends together.



32. Install the K-530 catalytic combustor. Use the 5/16-18 x 1.5" hex bolts to secure the catalytic combustor to the gasket below. Do not over tighten. NOTE: The bolt tabs will be at the top of the combustor.



33. Place the top lid back onto the stove and close the lid.
34. Recheck that the 1/4" gap has been maintained between the glass and air guide. Adjust to achieve the 1/4" gap as needed.
35. Allow the cement to cure for 48-72 hours prior to using the stove.

If you have questions about complete combustor pan installation, please contact Woodstock Soapstone Co. 9:00-5:00 Monday-Friday or 9:00-12:00 on Saturday. We can be reached at 1-800-866-4344 or by e-mail at info@woodstove.com.