

## Part#K-531-SS: Stainless Steel Catalytic Combustor Replacement

Rev. Date 4/20/2022

### Parts Needed:

- (1) K-531-SS Stainless Steel Catalytic Combustor
- (2) 5/16-18 x 1.5" Bolts
- (1) 1/4-20 Nut
- (1) Packet Anti-Seize Compound

### Tools Needed:

- 1/2" Wrench or socket
- 7/16" Wrench or socket
- 5/32" Hex Key/Allen Wrench



### Accessing & Removing the Catalytic Combustor

1. Make sure the stove is cool.
2. Using a 5/32 hex key (Allen wrench), remove the block-off plate from the top or rear of the stove (this plate will cover whichever flue exit is NOT in use).



3. Close the bypass cover by lifting up the bypass lever (the shaft on the back of the stove with the black knob on the end).
4. NOTE: The following photos depict the stove with the entire top removed. The purpose of this is to show what you will be doing inside the stove, via the opening from the block-off collar. Complete removal of the top lid assembly is NOT necessary for replacing the catalytic combustor.



5. Using a 7/16" socket or wrench, remove the nut (or bolt, depending upon the age of your existing catalyst) that secures the combustor heat shield, then remove the shield itself by lifting and slightly rotating it 90 degrees and pulling it out of the open block-off collar (see photos).



6. Remove retaining bolts (if installed) with a 1/2" socket or wrench from tabs on both sides of the catalytic combustor.



7. Lifting up and rotating 90 degrees, remove the original catalytic combustor through the open block-off collar. **Note:** your existing catalytic combustor may look different than your new one. Some older catalysts included two cast iron frames, top and bottom, which encased the catalytic element (constructed of either ceramic or steel material). Your new catalytic combustor will not utilize these frames and they may be discarded.



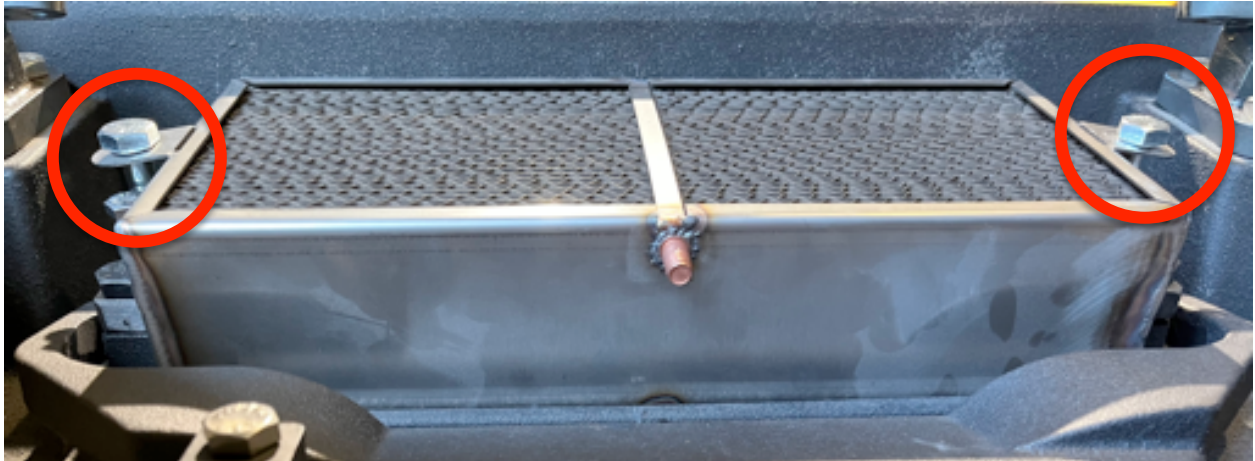
8. Inspect the under combustor gasket and replace if needed- a good seal under the catalytic combustor is critical to proper performance and efficiency. See our website ([www.woodstove.com](http://www.woodstove.com)) or call us at 800-866-4344 to order a new under combustor gasket kit, which includes a proper length of gasket and the gasket glue to install it.

### **Installing the Catalytic Combustor**

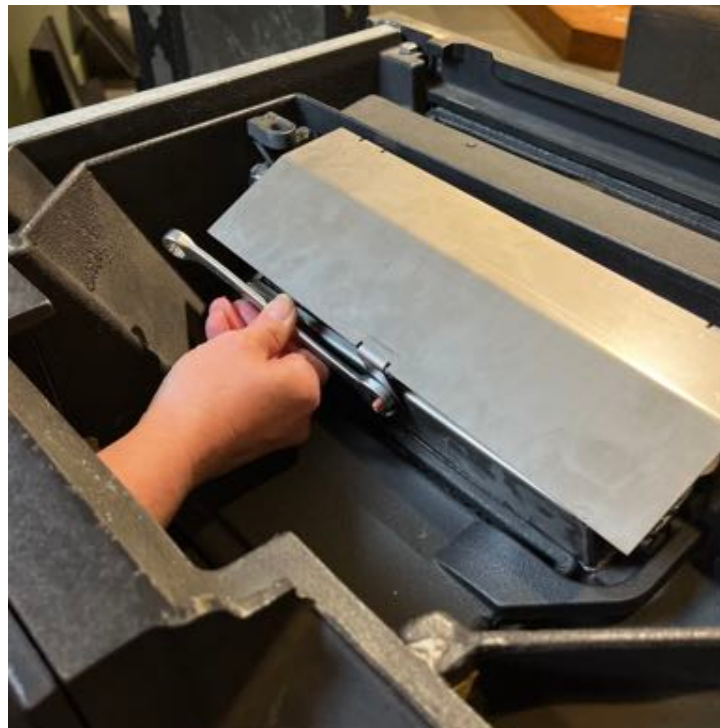
1. Insert the new catalytic combustor with the bolt tabs facing up. The heat shield stud should be pointing to the rear of the stove (see circled piece in photo).



2. Apply anti-seize compound to and insert the new 5/16"-18 x 1.5" retaining bolts through the bolt tabs on the catalytic combustor, down into the corresponding holes on the combustor pan below. Using a 1/2" wrench or socket, tighten the bolts enough to create a seal between the catalytic combustor and the combustor gasket. These don't need to be over-tightened, just enough to pull the tabs on the catalytic combustor downward (see photo below).



3. Re-install the Combustor Heat Shield with the included 7/16" hex nut. The curled front tabs on the combustor heat shield should rest on the top, front-facing edge of the catalyst.



4. Replace the block-off plate.



#### **MAINTENANCE**

Your new catalytic combustor should be removed and cleaned every 4-6 weeks during the burning season. Remove any ash from both sides of the combustor with a vacuum or soft bristled brush. 1-2 times per season, a more thorough cleaning should be done with a 50/50 solution of white vinegar & distilled water. Soak the catalyst for 15-20 minutes, rinse with distilled water and allow the catalyst to dry. The scoop and screen (W-805) should also be cleaned at the same time using the methods listed above.

Please contact Woodstock Soapstone Co. at 1-800-866-4344 or e-mail to [info@woodstove.com](mailto:info@woodstove.com) with any questions or comments regarding the catalytic combustor installation or operation. Offices are open and accept incoming calls 9:00-5:00 EST Monday-Friday, 9:00-12:00 EST Saturday.