

Catalytic Combustor Replacement



The removal of a Blaze King Catalytic combustor is not difficult and requires only a small flat blade screwdriver or pocket knife. The stove fire must be out for at least 12 hours prior to the removal process. A combustor can reach 1400 degrees Fahrenheit and hold high temperatures for several hours even after the fire is out. After waiting 12 hours, first remove the flame shield by simply lifting the shield off the two tabs at either side. Pay particular attention to orientation as there is a top and bottom edge to the flame shield.



Once you remove the flame shield, you'll find the combustor. The honeycomb combustor can be made of different materials such as Cordierite, Mulite or even Stainless Steel. They are all the same with regard to removal and caution should be taken so as to not drop or damage the combustor. If your combustor has never been cleaned according to the manufactures directions, you may wish to clean the combustor before replacing it with a combustor. The cleaning process is simple using items found in most households. Instructions are available from your dealer.



Each combustor has a metal tab across the bottom and each side of the combustor. Using a flat blade screwdriver or pocketknife blade, slide the blade behind the metal tab and the heavy steel dome, apply slight pressure until the combustor begins to move forward about 1/4". Repeat the process on the opposite end tab. By working back and forth the combustor will work free of the dome housing. It is normal for the gasket surrounding to metal band to fall apart during this process. New combustors are shipped with a new gasket.



Now that the combustor has been removed you'll be able to see one stainless bypass retainer on each side. These can remain in place and do not need to be removed. Using the same screwdriver or pocket knife, scrape any old gasket from the surface areas of the dome. If you clean your existing combustor you'll need to order replacement combustor gasket. If you purchase a new combustor a new gasket will be applied to the combustor.

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This new combustor already has the gasket installed. Note the 1" wide masking tape. This tape will help keep the leading edge of the gasket from snagging during installation. If you've cleaned your combustor, wrap the combustor gasket as you see here and use the 1" masking tape around the perimeter, front and rear. During the first fire the masking tape will burn off and the combustor gasket will swell providing a tight seal. It is this tight seal that improves efficiency and performance. You should never burn your stove without a combustor gasket installed.



Since the combustor is only 2" deep, there is ample room to lift the new combustor into place. **REMEMBER TO HAVE THE TAB ACROSS THE BOTTOM EDGE OF THE COMBUSTOR AS IT IS INSTALLED.** Slowly push the combustor in at the top, apply even pressure to the left and right corner. This will allow for better view of the bottom edge for the final fitting. **DO NOT FORCE THE COMBUSTOR INTO THE DOME. TAKE YOUR TIME AND WORK IT INTO PLACE SLOWLY.**



Once the combustor is installed completely so that all three tabs are touching the face of the dome, replace the flame shield. Note the brackets welded to the back flame shield are shaped like a triangle. The point of the triangle should face dome when installed correctly. Never operate your stove without the flame shield in place. The flame shield will protect the face of the combustor against damages from the wood when loading and other possible damages that can occur during the cleaning process.



The flame shield will rest on the two tabs located on the dome guard and lean slightly forward. Now that your combustor has been installed you can now relight your stove. You will continue to receive excellent efficiency and cleaning for years to come. A few reminders, never burn anything other than dry, seasoned cordwood. Burning anything else may contaminate or ruin your new combustor. Also remember to keep your front loading door gasket seal nice and tight. Doing so will improve burn times and extend combustor life span.