

Part#W-801/W-805: Modified Combustor Scoop Installation

Rev. Date 7/27/2021

Parts Needed:

- (1) W-810/805 Stainless Steel Combustor Scoop
- (2) Replacement scoop posts (W-2600)
- (2) Hairpin cotter pins (W-2593)
- Anti-seize compound
- (2) 5/16-18 Nuts

Tools Needed:

- 1/2" Wrench or socket
- Pliers or channel locks
- WD-40 or similar penetrating liquid



1. Make sure the stove is cool.
2. Treat all hardware to be removed with penetrating liquid. Multiple treatments will help with hardware removal.
3. Reach into the firebox and 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.**



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4. Use a 1/2" socket or wrench to remove the two scoop supports from the top of the firebox. Each support is fastened with two bolts. The new scoop posts will replace the existing hardware and supports.



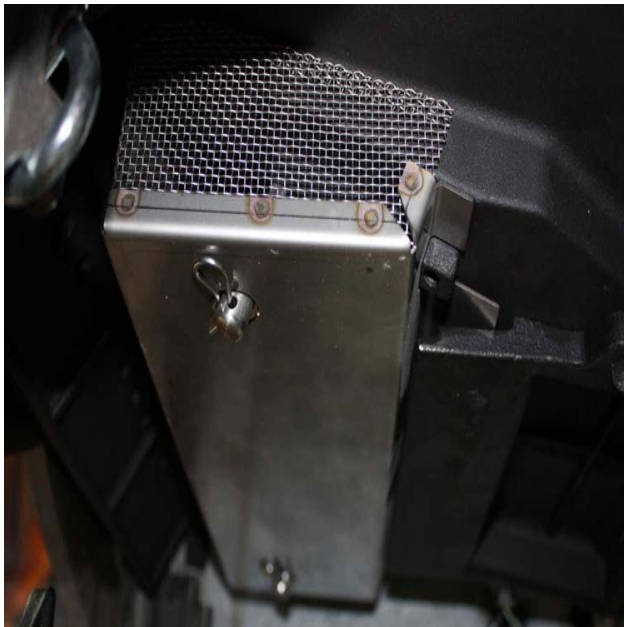
5. Thread the locking nut all the way on. Treat the threads of the replacement scoop posts with the anti-seize compound provided. The new posts will be installed in the holes closest to the front of the firebox.
6. Use a pair of pliers or channel locks to turn the new posts. Leave 5-6 threads between the combustor pan and nut. It may be necessary to adjust up or down to achieve a proper fit. Do not tighten the lock nuts until the desired fit is achieved. The roll pins in the posts should be parallel to the front of the stove (front glass has been removed for photo clarity).



7. Slide the back edge of the replacement scoop into the lip of the bypass frame. Raise the front edge and guide the holes of the scoop over the posts. The top of the screen should touch the top of the firebox. Be sure the screen clears the air guide at the top front of the firebox. You may need to push in on the screen slightly to allow it to clear the air guide



8. Adjust the posts so the holes for the hairpin cotter pins are facing the loading door for easy access. Once the hairpin cotter pins are in place there should be very little up and down movement from the scoop. The wavy side of the cotter pins should face the front of the stove for the best support.



9. Once the proper fit is achieved remove the scoop and tighten the lock nuts with a 1/2" wrench. It will be helpful to hold the supports in place with pliers while tightening the nuts. Reposition the scoop into the stove and secure it with the hairpin cotter pins.

10. The scoop is designed with cotter pins that can be easily removed by hand or needle nose pliers. This will aid in ease of routine maintenance. The scoop and catalyst should be removed and cleaned every 4 weeks during the burning season. Failure to do so will result in reduced airflow, back-puffing, and damage to the stove. We recommend a 50/50 mixture of distilled water and distilled white vinegar. Apply with a spray bottle and rinse with distilled water. Replace when dry.

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