

## Part#W-253: Bypass Cover Replacement

Rev. Date 6/28/2021

**Parts Needed:**

- (1) W-253 Bypass Cover
- (2) 5/16"-18 x 1" bolts
- Anti-seize compound

**Recommended:**

- Safety glasses
- Shop vacuum
- Flashlight or work light

**Tools Needed:**

- 1/2" Wrench
- 1/2" Socket
- 7/16" Wrench
- WD-40, Kroil, PB Blaster, or similar penetrating liquid



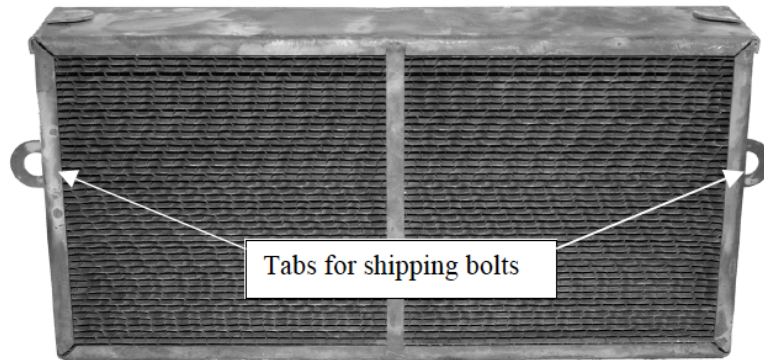
1. Make sure the stove is cool.
2. Remove the top lid of the stove by lifting straight up with the lid slightly open. The hinge is not attached and the top will lift off. Pre-treat all hardware to be removed with penetrating liquid and let soak in for 15 minutes. Do not spray penetrating liquid on catalytic combustor.



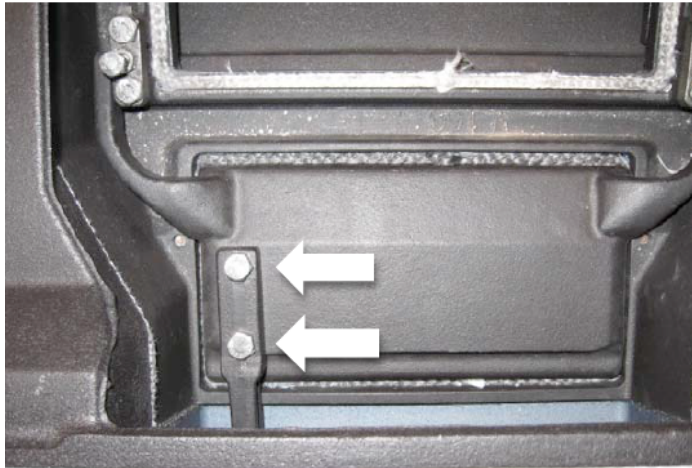
3. If you have a catalytic combustor that is in a cast iron frame, and you have not removed the shipping bolts on either side of the frame, do so now. You will need a 1/2" wrench or socket. Your combustor and frame assembly can now be removed from the stove.



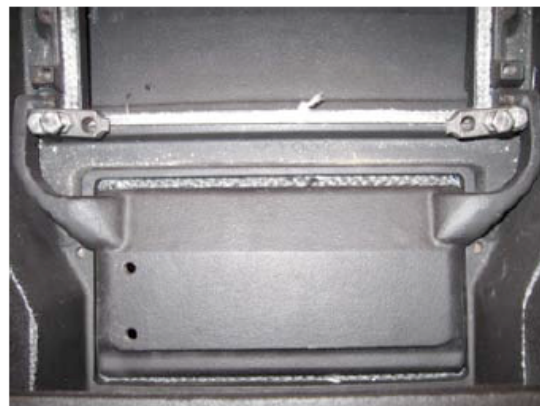
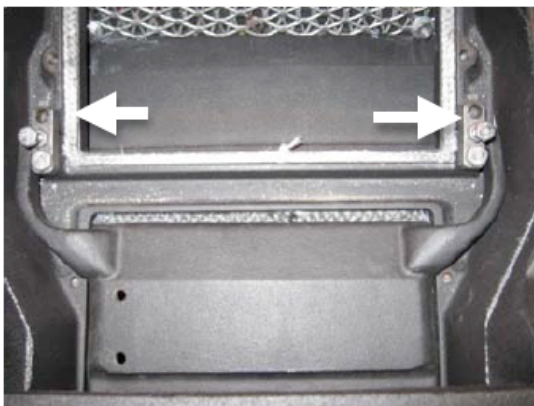
- a. If you have a newer integrated frame stainless durafoil combustor, remove the bolts at the tabs on either side of the combustor. As the stainless frame is lighter weight than the older style cast iron frame we do recommend using the 'shipping' bolts when you return the combustor to its place, (just finger tight) to maintain a good seal to the gasket below



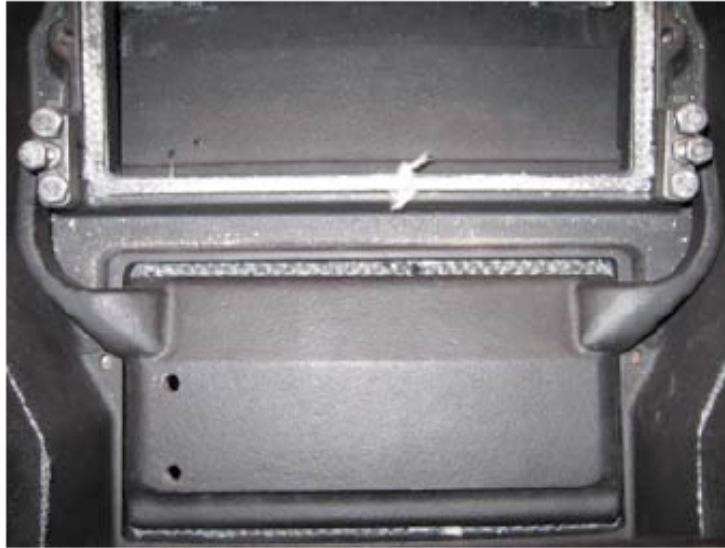
4. Detach the bypass lift guide by removing the two bolts that connect it to the top side of the bypass door using  $\frac{1}{2}$ " wrench or socket.



5. Completely remove the front bolt from each of the bypass retainers, and loosen the rear bolt using a  $\frac{1}{2}$ " wrench. It may be necessary to remove the center  $\frac{1}{4}$ "-20 x 1" bolts, (loosen lock nuts first) using  $\frac{7}{16}$ " wrench. Twist the retainers out of the way and remove the bypass cover.



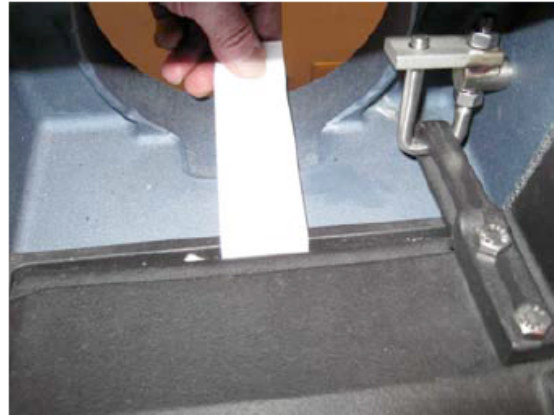
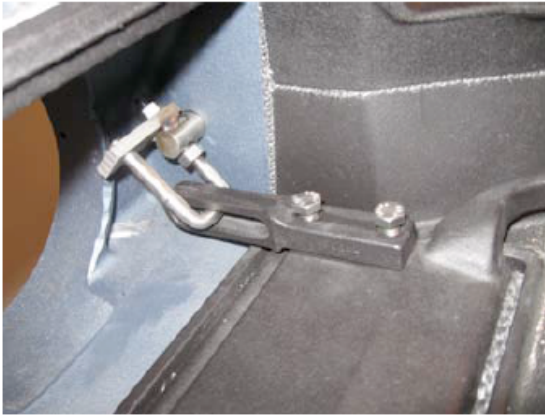
6. Place the new bypass cover into position. Apply anti seize compound to the bolt threads. Swivel the retainers back into position, and secure them with the bolts provided.



7. When installing the  $\frac{1}{4}$ " x 20 x 1" bolt in the center of each retainer, pull the bypass door upward so that it is pressed against the under side of the retainers. With the door held in this position tighten the middle bolt until it just touches the door hinges. You may release the door. Tighten the bolts  $\frac{3}{4}$  of a revolution using the bolt code on the bolt head for easy positioning reference. Tighten the lock nuts to keep the bolts in position.



8. Attach the bypass lift guide to the bypass door using (2) 5/16-18 x 1" bolts. It may be necessary to adjust the tension on the bypass door so it has a good seal with the gasket underneath it. To test the seal, slide a small piece of paper under the bypass door, close it and try to pull the paper out. There should be resistance and the paper should curl up. To increase the pressure on the bypass door, loosen the top nut on the U-bolt, and then turn the bottom nut counter clockwise. To decrease the pressure, turn the bottom nut clockwise, and do the same to the top nut. Make small adjustments until the proper seal is reached.



9. Place the combustor back into position and place the lid back on the stove.
10. Enjoy your stove!