

Part#P-334: Damper Upgrade Kit

Rev. Date 10/21/2021

Parts Needed:

- (1) Damper assembly
- (4) 1/4-20 x 5/8" Hex bolts
- (8) 1/4 -20 Washers
- (2) 1/4-20 x 3/4" button head allen bolts
- (3) #8 x 5/8 Self-tapping sheet metal screws
- (1) Tube furnace cement

Tools Needed:

- Caulking gun
- 7/16" Wrench
- 7/16" Socket
- 5/32 Allen wrench
- Putty knife



Part 1: Removing the Old Damper

1. IF you have a rear heat shield, remove the two 1/4-20 acorn nuts holding the shield on and remove it.



2. Remove the two spacers and 3.75" studs from the rear of the stove under the flue collar.



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3. Remove the 1/4-20 x 5/8" bolts (8 if you had a heat shield, 10 if you did not) and two 1/4-20 nuts on the bottom of the current damper and remove it.



4. Use a putty knife to chip away any remaining gasketing or stove cement residue left by the damper assembly.

5. Insert the supplied button head allen bolts (with washers) into the two holes below the flue collar (see picture below referencing location of holes for these bolts). **DO NOT TIGHTEN THESE-** they should remain loose, the new damper system will fit under the washers on the bolts prior to being fastened.

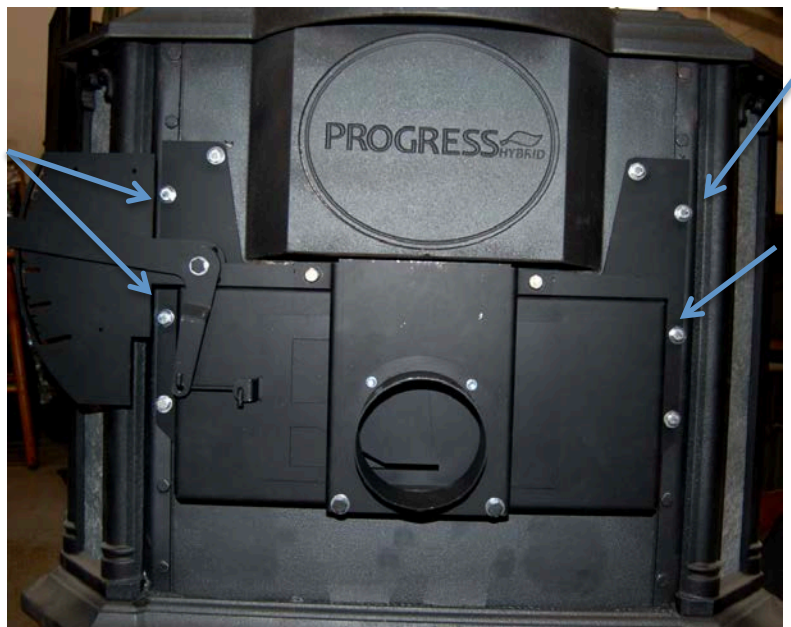


Part 2: Installing the New Damper System

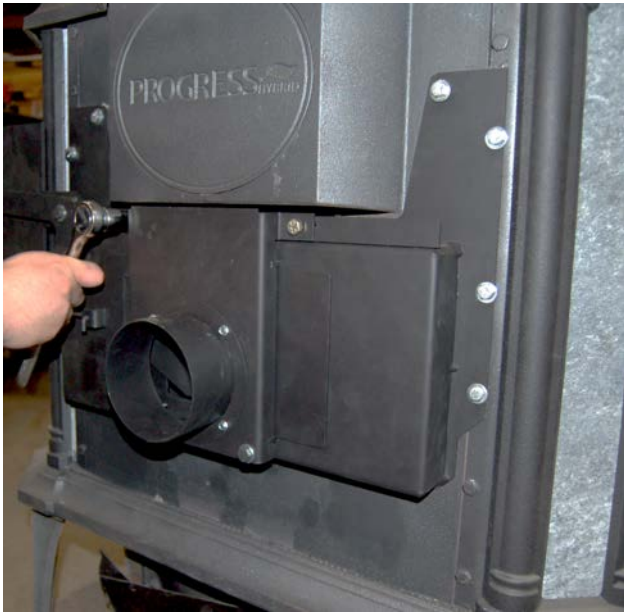
1. Use the furnace cement to re-cement over the footprint area of the removed air damper.
2. Fit the new air damper system to the back of the stove. The two top slots on the damper assembly should slide under the washers & allen head bolts inserted under the flue collar in part 1, step 5. The bottom lip should slide down into where the old damper assembly sat.



3. Insert eight 1/4-20 hex head bolts & washers into the bolt holes on the stove. Four of the bolts will be the new bolts included with the assembly (5/8"); four of them will be re-used from the old damper. Refer to the diagram below to see which bolts are the NEW bolts. (Shown in the picture below).



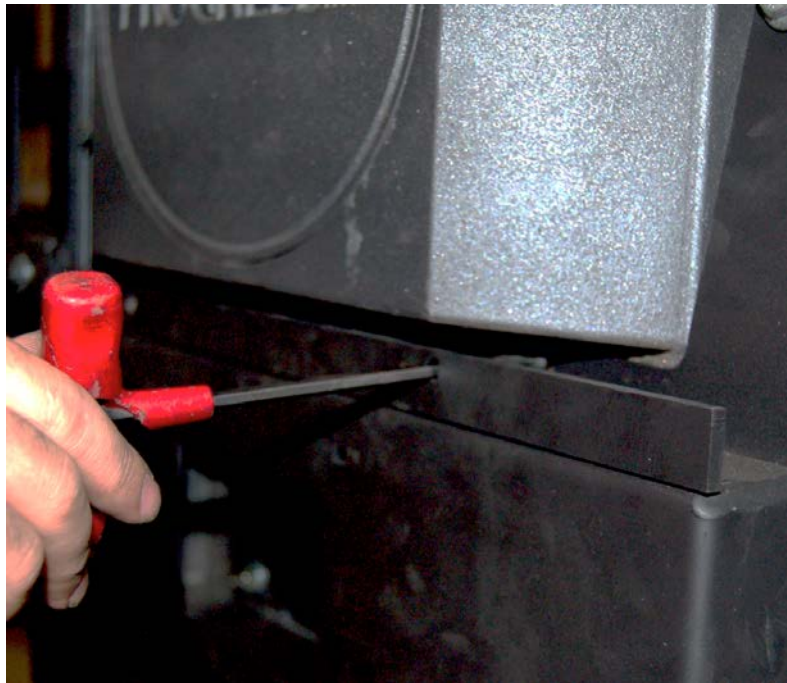
4. Remove the four bolts that hold the outside air adapter to the stove as shown below. The outside air adapter will come off along with the top & bottom retainer plates as well as the damper plate that sits below it (see photos).



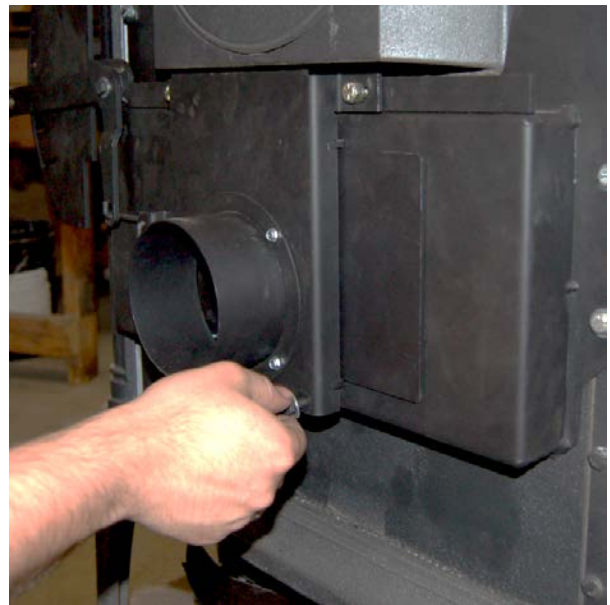
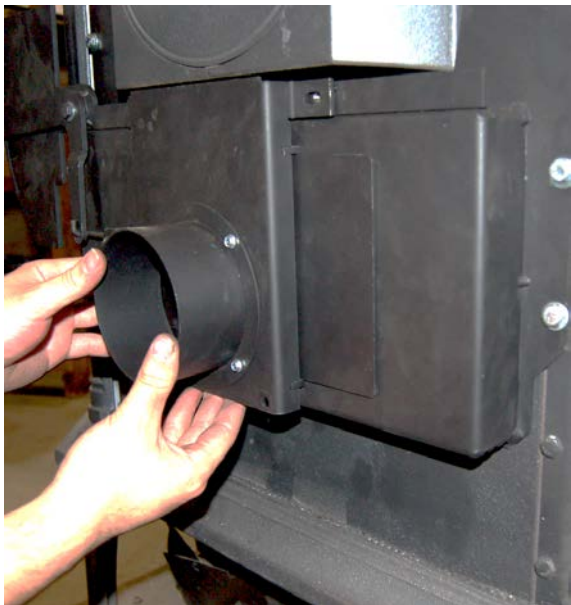
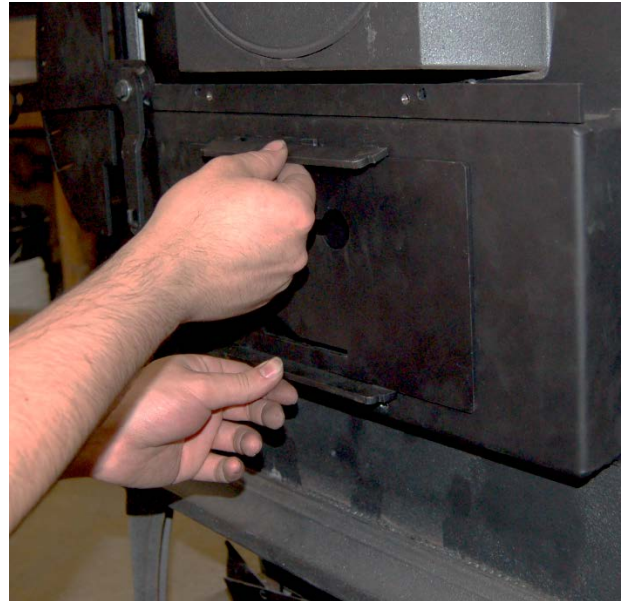
5. Fasten two of the supplied 1/4-20" washers and the two 1/4 -20" nuts removed in part 1, step 3 to the studs that protrude through the back of the new air damper. You'll need a wrench to reach the studs on the inside of the damper (see photos below).



6. Use the guide holes at the top of the air damper to fully tighten the button head allen bolts at the top of the air damper (Initially inserted partially in part 1, step 5).



7. Replace the air damper plate, top and bottom retainer plates, and the outside air adapter. Reinstall and tighten the four bolts on the outside air adapter to fasten the assembly back together.



8. Make sure that the new damper system slides freely when the lever is adjusted. If it does not, the bolts may be too tight.
9. To remove the metal EPA tag from the old damper assembly, wedge a putty knife in between the tag and the body of the damper assembly. Tap the butt of the putty knife handle with a hammer or rubber mallet to break the old rivets. Use the supplied self-tapping sheet metal screws to secure the metal EPA tag to the new damper, above the handle.

