

Technical Data Sheet

Remove & Reinstall a Complete Clydesdale 8490 Secondary Air

Manifold

For Chimney Cleaning or Stove Repair

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TOOLS REQUIRED:

7/16 Socket & Ratchet 5/32" Hex Wrench

PROCEDURE:

1. Remove all the components from the firebox. Loosen the bolts in the stone retention clips with a 7/16" wrench and lift the clips off. With the retention clips removed, remove all of the refractory soapstone pieces (including the floor stone).



Photo #1 The Clydesdale firebox with refractory soapstone, stone retention clips, and complete secondary air manifold removed.

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- OFS T'AUG TPOD 49/AZ49/AZ69/A5 0 Photo #2 The hex socket head bolts in the back of the firebox that help hold the manifold in place.
- 2. Remove the two hex socket head bolts that are located in the back of the secondary air manifold assembly with a 5/32" hex wrench.

- 3. Using the palms of your hands (so as not to poke a finger through the baffle), lift the front of the secondary air manifold up and pull it toward the front of the stove. The manifold will disengage from the back of the stove and is now loose in the firebox. Lower the manifold down into the bottom of the firebox for service, or remove it from the firebox for replacement. Note: after some use, a small amount of fine ash may accumulate on top of the baffle.
 - a. With the secondary air manifold in the bottom of the firebox, you can replace the baffle, the baffle support, or the secondary air pipes. To remove the secondary air pipes, first remove the left and right secondary air plenum caps. When replacing the pipes, ensure the hole on each end of the pipes fits over the small tangs on the bottom of the secondary air manifold.

4. If you are removing the secondary air manifold from the firebox, do the following: With the right side angled down and the right front tip of the manifold resting on the floor of stove and as far right as possible, bring the left front tip of the manifold up to the left top corner of the door opening. At this point the left side of the manifold can slide out the door opening (see photo #3).



Photo #3 Angle the manifold as shown. Now maneuver the bottom corner so it will come out of the firebox.

5. To install a new or repaired secondary air manifold, reverse the process: with the manifold held at an angle, right side lower as shown, maneuver the upper end into the firebox. With the left side positioned in the firebox, the right will clear and slide into the firebox as well.



Photo #4 Installing the secondary air manifold as described in step 5.

- 6. Square the manifold in the firebox and lift it up (using the palms of your hands) so that the front edge is higher than its normal position. Maneuver the back of the manifold until it lines up with the two rectangular air holes in the back of the firebox. Look into the firebox and line up the two notches in the lower center rear of the manifold with the holes for the machine screws that hold it in. When the back is aligned in this manner, push it back into the air holes and lower the front down slowly keeping the manifold pushed back. When correctly positioned, the right and left sides of the manifold will rest on the cast iron ridges molded in the sides of the firebox for this purpose.
- 7. Install the socket head screws and tighten with the Hex wrench.
- 8. Install the refractory soapstone and stone brackets. Refer to the owner's manual for detailed information on the stone installation.



Photo #5 The secondary air manifold and refractory soapstone panels installed in the firebox.