

Technical Data Sheet

Shelburne 8370 Primary Air Plenum Replacement

Part #2310-740

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KIT CONTENTS:

#2310-740 – Primary Air Plenum 4 Ft – 3110-057 3/8" Medium Density Gasket

TOOLS REQUIRED:

7/16" Wrench 7/16" Socket w/ Extension Phillips Screwdriver

BEFORE YOU BEGIN: Work on a cool stove. To replace the primary air plenum, you will have to first remove the top casting. The primary air plenum and stainless steel throat baffle will be connected to the front panel. These will be removed with the plenum and reused on the new piece.

PROCEDURE:

- 1. Open the front door and pull it straight up and off the stove. Retain the hinge pins and washers for reassembly. Carefully set this out of the way until it is ready to be put back on the stove.
- 2. To access the primary air plenum, you will first need to remove the top casting. Locate the two bolts on the back of the top casting which are accessible from outside the stove. Remove these bolts with a 7/16" wrench or socket. To remove the front two bolts, you will need to reach through the stainless steel throat baffle in the front of the firebox with a socket and extension.
- 3. With the top casting off, you can reach into the stove and remove the entire secondary air manifold system. This consists of the ceramic baffles, baffle support, stainless tubes, and the secondary air manifold itself. It should lift straight up and out of the firebox.
- 4. Using a 7/16" wrench, remove the two upper bolts that hold the front casting and primary air plenum to the left and right side panels.
- 5. Expose the bolts holding the bottom of the front casting and primary air plenum by lifting up the two firebricks in the bottom of the firebox directly behind the front casting and primary air manifold. Remove these bolts with the 7/16" wrench.

- 6. The front casting and primary air plenum should now be loose in the stove. Before these can be taken out of the stove, you will need to loosen the four bolts in the back of the firebox, allowing you to slightly spread the side panels for removal of the front casting and primary air plenum. It can now be lifted up and out of the stove.
- 7. Lay the removed assembly face down on a smooth or protected surface. Using the 7/16" wrench or socket, remove the four bolts that hold the primary air plenum to the front. Save the front casting and stainless steel throat baffle for use on the new air plenum.
- 8. If necessary, the fresh 3/8" gasket should be installed into the front casting. The gasket should be placed into the gasket channel after cleaning out any debris with the ends extending out about two inches on each end of the gasket channel (use the original front as a guide).
- Position the new primary air plenum on top of the front casting. With the stainless steel throat baffle in position, draw them together by replacing the four screws previous removed in step number seven. Tighten the screws with the 7/16" wrench or socket.
- 10. Place this assembly back into the stove. Replace the lower bolts in the bottom casting. Replace the firebrick after tightening the bolts. Replace the bolts on the upper left and right hand sides and tighten them with the wrench. Tighten the four bolts holding the back of the panels that were loosened in step number six.
- 11. Place the secondary air manifold back into the firebox. Angle the back of the secondary manifold into the stove first, making sure it drops onto the secondary air riser in the back center of the firebox. Once this connection is made, the secondary air manifold front can be lowered into place.
- 12. Place the top back onto the firebox. Secure the front bolts with the socket and extension. Insert the bolts into the tabs in the back of the top casting and tighten with the wrench or socket.
- 13. The door can now be set onto the new front. Make sure the shim washers are in place between the hinge tabs on the door and front cast panel.