

Technical Data Sheet

Replacing The Heritage Primary Air Plenum *Heritage Model 8020: Non-Catalytic, EPA Certified Stove*

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COMPONENTS:

- 1 – 5012-202 Primary Air Plenum
- 1 – 5012-203 Primary Air Deflector
- 2 – 3160-943 Manifold Gaskets
- 1 – Gasket Glue (2 oz)
- 3 – Feet ¾” Rope

TOOLS REQUIRED:

- 9/16” Wrench
- 7/16” Wrench or Socket
- Grinding Tool
- Pair Safety Glasses
- Grinding Tool
- 1 - Tube Stove Cement
- 1- Rubber Mallet
- 1 - Bungee Cord
- 1 - Spray >N Glue

BEFORE YOU BEGIN: If the stove has been USED, the fire must be out and the stove cold. Disconnect the stovepipe. **Always** wear safety glasses when using any grinding tools. Wrap a bungee cord firmly around the body of the stove.

PROCEDURE:

1. Using a 9/16" wrench or socket, loosen and remove the hex head bolt that is located in the top middle of the side door frame. Locate the 3/8" nuts on the threaded rod under the bottom casting on the right hand side. Using the 9/16" wrench, turn the nuts and rod until they are free from the top casting.
2. Rap the all around the underside of the top casting until the cement seal is broken and the top can be lifted from the stove. Turn the top casting over and completely clean the stove cement out of the stone channel by chipping it out with a hammer and chisel (or slotted screwdriver). Carefully place the top casting to the side until the stove is reassembled.
3. Remove the ceramic blanket and firebrick from the top of the stove. Carefully lift the

secondary air plenum and secondary air pipes up and out of the stove. Place these materials aside until you are ready to reassemble the stove. Pull out and discard the 3/4" rope gasket that is glued to the top of the primary air manifold.

4. Using a 7/16" wrench or socket, remove the two hex head bolts that hold the primary air plenum to the bottom of the stove. These bolts are located under the bottom casting just in back of the front bottom feet.
5. Open the front door and remove it by lifting it straight up and off the stove. Be careful to retain the hinge pins and any shim washers for reassembly. Remove the two bolts that hold the primary air deflector to the manifold (if the stove has been burned, these bolts may twist and break, however, replacement bolts are provide with the new plenum/defector). Remove and discard the used air deflector.
6. Lift the used primary air plenum up and out of the stove, tipping it slightly in toward the firebox to remove it. Discard the used plenum.
7. Before placing the new primary air plenum into the stove, check the primary air holes in the bottom casting. Both the left and right hand holes should be 1 inch by 1-1/2 inches in size. On a very small number of early stoves, the left side air opening may be slightly smaller. If this is true, the opening should be ground out to the above measurements.
8. Place the new primary air manifold gaskets (these are the two flat white gaskets pieces) onto the bottom casting, making sure the gasket material does not overlap the primary air opening in the bottom casting. A small amount of Spray >N Glue or gasket adhesive will help keep the gaskets in the proper position. Before placing the new primary air plenum into the stove, unbolt and remove the air deflector. Place the new primary air plenum into the stove and secure it by replacing the bolts up through the bottom casting. Apply a small bead of gasket cement along the top front edge of the new manifold. Place the new 3/4" gasket onto the top of the manifold so that the area between the top of the manifold and the front of the stove is sealed off with this gasket (this will prevent the primary air from exiting here, before entering the firebox). Pack the excess gasket down the left and right hand edges of the manifold.
9. Replace the air deflector with the bolts just *loosely* in place. Return the front door to the stove. Gently close the front door against the air deflector. This will put the air deflector in its proper position (1/16 inch recessed from the frame). Open the front door and tighten the bolts that hold the air wash deflector in place. The front door can now be closed.
10. Return the secondary air plenum with secondary air tubes into the firebox. Replace the firebrick and ceramic blanket. Before replacing the top casting, turn it upside down and place a 1/4 inch bead of stove cement completely around the inside edge of the top casting stone channel. Place the top casting back onto the stove. It may be necessary to tap the top down into place with the rubber mallet. When it is properly positioned on the stove, replace and tighten both the bolt in the side door frame and the threaded rod in the right side stone.

11. Allow the stove cement to cure for at least 24 hours. To prevent cracking from thermal stress, we advise at least one break-in type fire (as described in the owner=s manual) before returning the stove to everyday use.