

Technical Data Sheet

Phoenix Bottom Casting Replacement

Assembly #96-7712010

Date: 12/23/2004

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MATERIALS REQUIRED:

2610-019 Bottom Casting
(2) 4500-0710 Hex Head Bolts 1/4-20 x 3/4"
(2) 5600-044 Secondary Air Riser Tubes
(1) 6300-34080 Stove Cement Tube
(1) 3120-210 Ceramic Blanket

TOOLS REQUIRED:

1/4" drill bit & drill
Flat head screwdriver
Phillips head screwdriver
1/2" Socket
7/16" Socket
Rubber mallet
Penetrating Oil

PROCEDURE:

- 1) Remove front door by lifting it straight up and off the stove. Lift the ash lip up from the front and remove it. Pull the ash pan out of the ash dump and close the ash door.
- 2) Remove ash grate and ash grate holder from inside the firebox by simply lifting them and taking them out of the firebox.
- 3) Carefully remove bottom firebrick. You may need to gently pry them up with a flat head screwdriver if held in with stove cement.
- 4) Rotate the steel front baffle support and take it out of the firebox. Carefully remove the individual firebricks that make up the baffle.
- 5) Remove and discard the ceramic insulation blanket on top of the secondary air tubes.
- 6) Remove the back firebrick retainer (see figure 1) and the back firebrick. If the 7/16" hex head bolts breaks off during removal, a replacement riser tubes and bolts been provided in this kit.

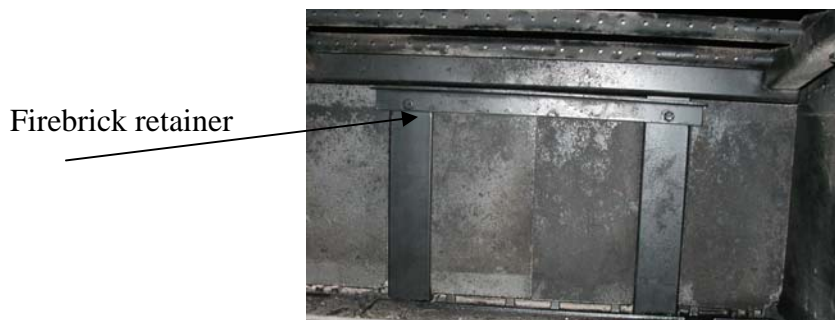


Figure 1

- 7) Using a 7/16" wrench or socket, remove two 1/4" bolts used to hold the cast iron back panel to the cast bottom which have been exposed by removing the rear firebrick. . These bolts are located just to the outside of the secondary air riser tube on the back wall of the firebox. (see figure 2)

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Figure 2

8) With assistance, carefully lay stove onto its back, then turn it completely over onto the very top of the stove. (Please use a soft blanket on the floor to prevent the top stones from getting scratched.) Once you do so, the secondary air tubes will fall to the top of the stove, and the riser tubes will be loose. Remove them completely and reinstall once you turn the stove back on its legs.

9) Remove 12 Phillips head screws that hold the ash pan assembly in place. (see figure 3)



Figure 3

10) Remove the 7/16" nut, washer, and lock washer attached to the corner rod by each leg. (see figure 3)

11) Remove the 1/2" bolt and leg from each corner. (see figure 4)



Figure 4

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12) There are two bolts coming from inside the firebox, which are used during the initial construction of the firebox. These bolts must be removed, but are inaccessible from inside the firebox. Consequently, you must drill the screws out from the bottom. The bottom of the bolts is visible just in front of the primary air opening on either side. See figure 4

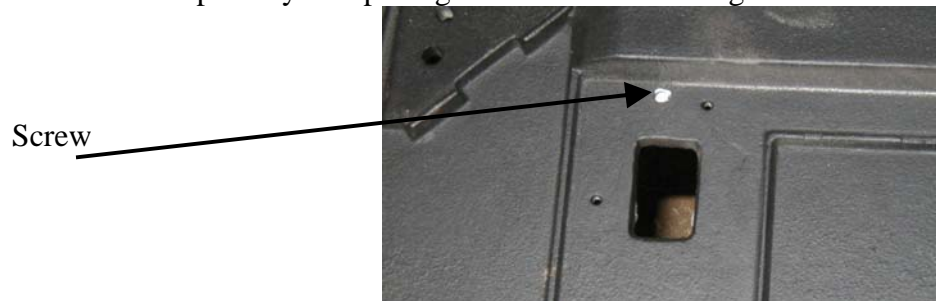


Figure 4

Before drilling the screws, drop a little penetrating oil on the bottom of the screw. Make sure you center the drill on the bolt. Once you start to drill, the bolt will usually unscrew and drop out. If it doesn't, drill all the way through the bolt. These bolts do not have to be replaced and since you are replacing the cast bottom, you can't do any damage if you are off a little.

13) Using a rubber mallet, tap along the edges of the bottom casting until the cement seal is broken. Lift the old bottom casting off the stove. Clean any stove cement from the side stones using a flat head screwdriver and hammer. Also, find and remove the two hex head bolts that were drilled out in step 12. Apply a thin bead of cement into the stone channel on the new bottom casting-keeping the bead of cement on the inner portion of the channel to prevent cement from oozing on the outside of the stove. Place the new bottom on the body of the stove and tap it into place with the mallet.

14) Replace the four legs, the washers, lock washers, and nuts on the threaded rods and the 1/2" bolts that hold the legs in position. Tighten down the nuts on the rods and the bolts.

15) Re-position the ash pan assembly and reinstall the 12 Phillips head screws.

16) With assistance, carefully turn the stove back right side up.

17) Replace the secondary air riser tubes. Make surer the riser tube is positioned with the screw hole on top, facing the front of the firebox. Also replace the back firebrick, and firebrick retainer.

18) Reposition the ceramic insulation on top of the secondary air tubes. Make sure the blanket does not extend beyond the front edge of the firebrick or become bunched in the back.

19) Reinstall the firebrick and firebrick retainer bar under the ceramic blanket on top of the secondary air tubes.

20) Reposition the ash grate holder and ash grate.

21) Apply a small amount of stove cement to the underside of the bottom firebrick and fit them into the bottom of the stove.

22) Replace the door, ash pan and ash lip.