

Technical Data Sheet

Heritage Model 8024 Primary Air Shutter Repair Kit

Kit Number 90-49205

Included in Kit:

- (1) 4100-0240 Shoulder Bolt
- (2) 4200-0855 Finishing Nut

TOOLS REQUIRED:

Right Angle Drill
Stubby Phillips Screwdriver
1/8" Allen Wrench
3/8" Wrench
#25 Drill Bit
10-24 Thru Tap
Lock-Tite
Hand Tap Wrench

Before You Begin: Work on a cool stove. This repair kit should be used to fix primary air shutters that have had the pin break off. Replacing the primary air shutter is not possible without disassembling most of the stove. Use these instructions to repair the primary air shutter, while leaving it in place.

Procedure:

- 1) Using a stubby Phillips Screwdriver, remove the 14 Phillips screws (circled below) that attach the bottom shield to the stove. Retain the screws for reuse. With the screws removed, the shield can be removed from the stove. You now have access to the primary air control. Figure 1 shows the bottom casting upside down for clarity.

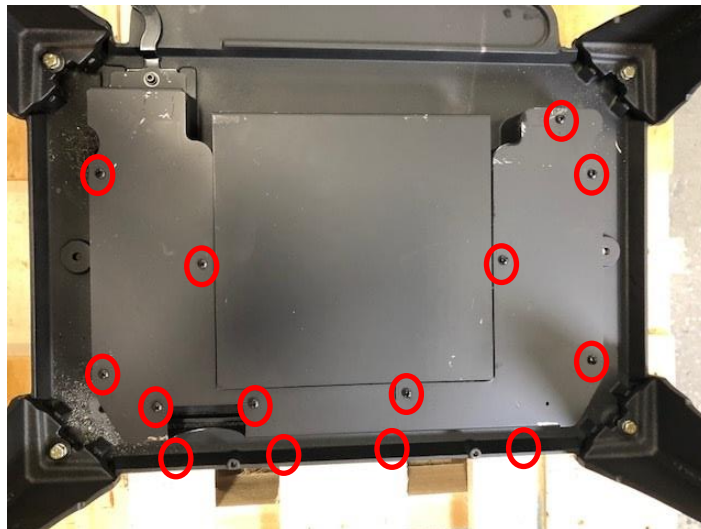


Figure 1

- 2) Using a 1/8" Allen Wrench, remove the single bolt holding the primary air control assembly. Take note of the spacer orientation. The primary air control handle can now be removed from the stove.



Figure 2

- 3) You now have access to the broken air shutter. There will be a small hole in the air shutter, where the pin normally would be. This hole needs to be drilled/tapped to 10-24.



Figure 3

- 4) Using a right angle drill-with a #25 drill bit, drill the air shutter in the existing hole. There is a strap on the top side of the shutter that will hold the shutter in place.
- 5) The new hole can now be tapped. With a 10-24 thru tap in a hand tap wrench, carefully tap the hole. Work the tap back and forth to cut the threads, and keep the tap from breaking.

Air control reassembly

- 6) You can now assemble the air control with the new components, before reinstalling it into the stove. Figure 4 shows the correct order of components.



Figure 4

- 7) Insert the new shoulder bolt through the primary air control handle slot, as shown in figure 5. Double nut the shoulder bolt with the included nuts. Tighten the nuts using a 3/8" wrench. **Optional:** Apply a small drop of lock-tite to the remaining threads.



Figure 5

- 8) Reinstall the primary air control handle onto the stove, as shown in figure 6. Tighten the shoulder bolt with a 1/8" Allen wrench.



Figure 6

- 9) Thread the shoulder bolt into the newly drilled/tapped hole. Tighten with 1/8" Allen Wrench. Figure 7 shows the detail of the top side of the shutter. This is not visible when completing this repair.



Figure 7

- 10) Test the functionality of the air control. The air shutter should be moving in unison with the primary air control.
- 11) Reinstall the bottom shield that was removed in step 1. Attach all 14 screws using a stubby Phillips Screwdriver.