Technical Data Sheet

Clydesdale 8492 Bypass Door Retaining Clip Replacement

Kit 94-49921

Included in Kit:

(2) 5640-018 Bypass Rod Retainer

Tools Required:

P2 Phillips Screwdriver
Electric Drill (optional)
7/16” Ratcheting Wrench
Emery Cloth
Moly-Grease
Sharpie

Before You Begin*:* Work on a cool stove. Disconnect the blower from its power source before attempting this repair. This insert will need to be pulled from the fireplace to complete this repair. Reference the Owner’s Manual as needed for reinstallation.

Procedure:

1) Remove the surround by lifting it straight up and off the bracket. Store in a safe place. Using a Phillips screwdriver, remove the 4 screws that retain the surround bracket. The surround bracket can now be removed. *tip-mark the location of the surround bracket screws with a sharpie before removing. This will make reinstallation much easier.

2) The outer shroud will need to be removed to expose the catalyst bypass linkage. Using a Phillips screwdriver, remove the 17 (4 removed in step 1) screws that retain the outer shroud.

3) Before lifting off the shroud, you must first remove the catalyst probe. This can simply be pulled straight out of the stove. With the probe removed, and all 17 screws removed, the shroud can be lifted off the stove, and set aside.

4) Locate the bypass rod retaining bolts, from within the flue collar opening. See **figure 1** for detail. There are 2 bolts, 1 on each side of the bypass door. These can be removed with a 7/16” wrench. Save the bolts for reinstallation, the retaining clips can be discarded.

Figure 1.

Figure 2 shows a side-by-side comparison of the old retaining clip, and the new retaining clip.

Figure 2.

5) **Installing the new clips**. The alignment of the new clips is crucial. They must be installed parallel to the adjacent clips. Crooked clips *may* result in a binding bypass door during the heating cooling cycle. With the clips parallel, tighten the bolts using a 7/16” wrench, as shown in **Figure 3**.

Figure 3

**tip – While doing this service, you have full access to the catalysts. A visual inspection/cleaning is recommended at this time.*

The second part of this repair focuses on the bypass linkage.

6) The bypass linkage can be found on the right side of the stove, as shown in **figure 4**.

Figure 4

7) Use Emery cloth to deburr the edges of the linkage. Focus on the pivot points, and where the two linkage arms overlap one another, as shown in **figure 5, 6 and 7**. Once deburred, apply moly-grease to the pivot points

Figure 5

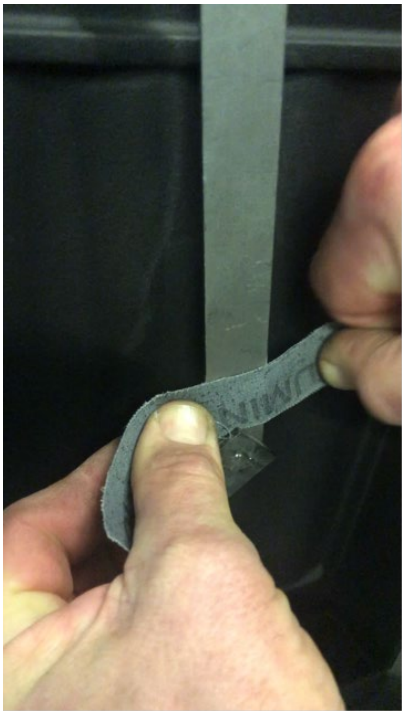

Figure 6

Figure 7

8) Test the functionality of the bypass system. At this point, it should move freely in and out.

9) Reinstall the outer shroud, and fasten with the Phillips screws. Start each screw, but do not tighten until all the screws have been installed. Once all screws have been started, tighten you can finish tightening all screws Do not install the 4 top screws at this time.

10) Install the surround bracket in top of the shroud. Line up the four marks you made during disassembly. Install the 4 screws, and tighten.

11) The insert can now be reinstalled in the fireplace. Once installed, you can reinsert the catalyst probe.