



Rebuild Kits

#0119 & #0118

Installation Instructions

Defiant 1610 NC Stove & Encore 1450 NC Stove

General Information

The Model 0119 Defiant NC Rebuild Kit is for use with the Defiant 1610 Non-Cat Stove. The Model 0118 Encore NC Rebuild Kit is for use with the Encore 1450 Non-Cat Stove. If there is a question about the model number of your stove, check the steel label fastened to the back of your stove. These kits are not for use with any other Defiant or Encore wood stove models.

Materials Provided:

- Shoe Gasket Kit with separate included instructions
- Refractory Shoe
- Refractory Fireback
- Fountain Assembly
- Damper Housing Assembly (Upper Fireback)
- 3/8" Adhesive Gasket
- Hardware for mounting Damper Housing and Fireback Brackets
- Instructions

Tools Needed: Phillips screwdriver, 7/16" Wrenches, Allen Key Wrench, Flashlight or droplight

Before starting the procedure, be sure the stove is cold. Clean all ashes from the ash dump and the combustion chamber. Use the empty ash pan as a storage spot for hardware, tools and small parts. Work in a clean, well-lighted area. Protect your work area with tarps or drop cloths. If possible, remove the stove to a utility area, take off the legs and raise the stove to a secure elevated surface.

CAUTION: Wear gloves, a dust mask and protective eyewear when servicing a stove.

Disassembly

1. Remove the doors, andirons and the bottom grate. The tab on the rear grate wedges the shoe in place so it will be tight. Begin by prying the front of the grate up with a screw driver. Carefully slide the refractory shoe out of the unit being careful not to damage the gasket on the bottom (Fig. 1).



Fig. 1 Remove shoe.

KT1509

2. Take out the right side brick and insulating panel by removing the Phillips head screw holding the bracket (Fig. 2) and carefully sliding the items out.



Fig. 2 Remove side brick.

KT1510

3. **For the Defiant only**, remove the flue collar by backing out the two Phillips round head machine screws.
4. Remove the top. **For the Defiant only**, carefully pull back the adhesive gasket for the flue collar located on the back of the top of the stove and let it hang down the back. The top is held in place by two hex head bolts in the rear left and right corners of the top (Fig.3) and by one socket flat head screw in the outside center of the top near the griddle opening. (Fig. 4)



Fig. 3 Remove top bolts in rear corners. KT1511



Fig. 4 Remove flat head socket screw. KT1512

5. Remove the rear shroud held by two Phillips round head machine screw in the center and four sheet metal screws - two on each side. This allows access to the six hex head nuts and washers holding the damper housing assembly and the fireback retainers.
6. Remove the damper housing assembly. First remove the damper handle with the Allen key supplied with the unit (Fig. 5). Locate and remove the four hex head through bolts, two per side on the outside of the inner back, that hold the upper fireback in place (Fig. 6). The nuts and washers are on the outside of the back. This may require the use of two 7/16" wrenches. Gently rotate the damper housing down right side first and maneuver out of the firebox by sliding left to right to clear the damper rod from the left side. Please locate damper rod spacer and remove from the hole in the side for reinstalling.
7. Remove the Refractory Fireback. Locate the two hex nuts on the outside of the inner back that hold the refractory brackets in place (Fig. 7). The nuts and washers are on the outside of the back. This may require the use of two 7/16" wrenches. Remove the two hex nuts with washers and pull out the hex head cap screws holding the brackets. This may require the use of two 7/16" wrenches. Remove the brackets. Hold the top of the refractory fireback while removing the brackets as it will fall forward with the brackets removed.



Fig. 5 Remove damper handle. KT1513



Fig. 6 Defiant damper housing with one (1) bolt removed. KT1514



Fig. 7 Remove fireback brackets. KT1515

8. Slide the fireback brick forward and out of the unit.
9. Slide the fountain assembly out.

This completes the disassembly.

Reassembly

- Before reassembly, check the following and replace or repair where necessary:
 - gaskets on the back installed on either side for the fireback seal
 - back to bottom and side seal (tighten if necessary)
 - top gaskets including the flue collar and griddle seal
- Install the gasket on the bottom of the new shoe by following the instructions that came with the Shoe Gasket Kit.
- Slide the fountain assembly into place.

Important: Position fountain assembly in the center of the back.

- Install the fireback centered on the back and the fountain with the two (2) fireback brackets removed earlier and two (2) hex head bolts and nuts with four washers and leave loose. Ensure it is against the gaskets in the rear sides. Do not fully tighten.
- Replace the shoe before tightening the fireback brackets to ensure the fireback and fountain line up properly to allow the shoe to enter. If not going in, line up the fireback and fountain as close to center as possible. Once the shoe travels easily all the way to the back, tighten the brackets. Verify the fireback seals against the rear gaskets.

- Install the damper housing assembly. Insert the damper rod into the left side of the unit, raise the right side up, slide over and attach using the four hex head bolts, nuts and eight washers. Ensure the washer is in place near the end of the rod (Fig. 8) to prevent the rod from sliding. Push tight against the fireback and line up with holes in the back while tightening to make a good seal against the fireback. This seal is critical to the proper operation of the unit. Install the spacer around the damper rod on the outside.

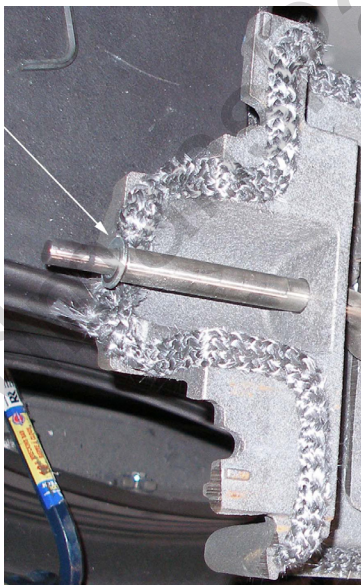


Fig. 8 Defiant damper rod washer.

- Install the damper handle using the Allen key supplied with the stove.
- Install the right side brick and insulation panel with the notches to the upper back with the bracket and hex head cap screw.

- Position the top in place over the sides, back and front and insert the two hex head bolts in the rear corners and one socket flat head screw in the front center. **Do not tighten yet.** Finger tighten the front center bolt; then finger one corner bolt; fully tighten the other corner bolt; then go back to the opposite bolt and center bolt to fully tighten them down. When installed, **the top should be level.** Ensure there is a good seal between the top edge of the damper housing and the top by viewing through the flue collar opening. Again, this seal is critical. Refer to Figure 9 for an example of a top that is not level.
- With the Defiant only,** install the flue collar. Carefully replace the gasket pulled off the top earlier. If necessary, replace with some of the gasket supplied in the



Fig. 9 Stove top that is not level.

KT1517

kit or hold in place with a small amount of furnace cement.

- Install the grate with the shoe tab to the back. The fit is tight. **CAUTION - Do not damage the shoe.** If not fitting down, push hard on the shoe to allow grate to go all the way down. You may want to insert the rear first and pry the front lip of the grate into the stove. This tab holds the shoe in place (Fig. 10).



Fig. 10 Install the grate with the tab holding the shoe in place.

- Install the griddle, andirons and front doors.

This completes the reassembly.

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