

Gasket Kit #3450 - Installation Instructions for use on the Defiant NC 1610 Stove



Your stove uses gaskets to provide a tight seal between moving parts. Eventually these gaskets will become compressed and will no longer seal properly. Replacing the gaskets will ensure good performance.

Materials Provided:

- Shoe Gasket Kit with Separate Instructions
- 11' of 5/16" Glass Fiber Gasket for the damper and front doors
- 5' of 7/16" Self Adhesive Glass Fiber Gasket for flue collar
- 7' of 3/16" Glass Fiber Gasket (Glass)
- 5' of 5/16" Wire Reinforced Glass Fiber "Armaseal" for the griddle
- 5' of 3/8" Glass Fiber Gasket for the ash door
- 3 oz. Tube of Gasket Cement

Tools Needed:

- Phillips screwdriver Small cold chisel
- Utility knife or scissors Wire brush
- Rubber mallet, or hammer and wood block
- Flashlight or droplight

Procedure

For a guide to each gasketed area, refer to the following sections and illustrations. Regardless of its location, replacing a gasket involves these steps. This kit includes some adhesive gasket that does not require cement to adhere to the stove.

- Remove the old gasket by scraping it out of its channel with an old screwdriver.
- Clean the gasketing channel with a wire brush. Be careful with adjacent surfaces, especially if they are enameled. Remove any stubborn deposits with a small cold chisel. Clean both mating surfaces thoroughly to bare metal.
- Cut the appropriate size gasket to length, allowing an extra inch.
- Knead the tube of cement before opening, to mix the contents thoroughly.
- If using gasket that requires cement, place an unbroken 1/8" bead of gasket cement in the channel. Do not use too much cement as it may saturate the gasket; the gasket must remain soft and resilient. One tube of cement will produce a 1/8" bead sufficient for all the gasket in this kit.
- Starting with one end, press the gasket into the cemented channel. If the gasket goes around and meets itself, ensure that you have a good joint before trimming the excess gasket. Do not overlap, or leave ragged edges.

- Seal the gasket by placing it firmly against its normal mating surface. A slip of waxed paper between the gasket and its mating surface will help keep the cement from traveling through the gasket and sticking to the mating surface. Clean away any excess cement.
- Allow to dry. Be sure to remove the waxed paper!
- Be careful, with enamel stoves, to keep cement off the enamel finish. If cement does accidentally get on the enamel, wash it off immediately with warm water.
- If you have questions, refer to the stove's Homeowner's manual or a Vermont Castings dealer.

Flue Collar

Remove the two (2) Phillips head screws and lift off the flue collar. Pull off the old gasketing on the back and top of the stove. Thoroughly clean the gasket channel. Cut 7/16" replacement gasket to the correct length. Pull the adhesive gasket paper off the gasket and gently press the gasketing into place. If replacing the damper gasket, go on to the next section. Otherwise, replace the flue collar and secure with the Phillips screws.

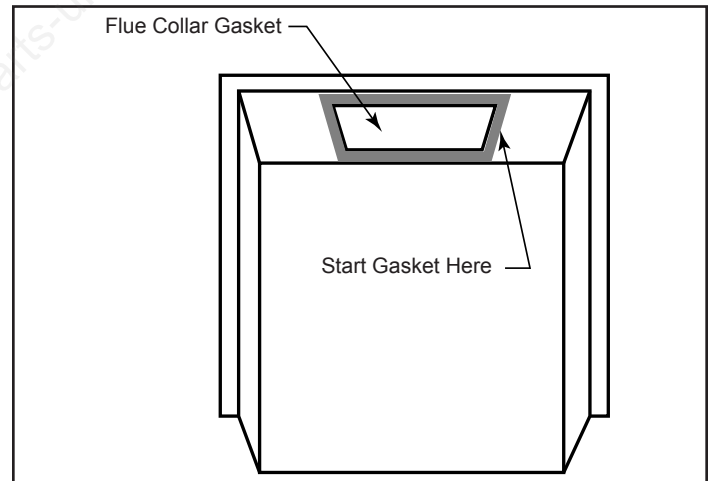


Figure 1 - Flue Collar Gasket

Damper

Remove the flue collar and open the damper. Pull off the old gasketing and clean off the old cement. Thoroughly clean the damper plate and around the damper opening in the upper fireback. Cut a piece of the 5/16" gasket material to length, allowing 1" of excess. Place a continuous 1/8" bead of cement in the damper gasket channel, and press the new gasketing in place, trimming off the excess length. Start the gasket on the center of the bottom groove of the damper housing. Remove any excess cement. Close the damper to seat the gasket. Replace the flue collar and screws.

Griddle

Remove the griddle. Pull off the old gasket and clean the channel with the wire brush. Set the steel reinforced gasket in the griddle channel and mark the correct length. Place the gasket on a wood cutting surface and trim with the utility knife or scissors. Twist the ends slightly to prevent unraveling. Place a continuous 1/8" bead of gasket cement in the channel and press the gasket into place. Replace the griddle and compress against the gasket by striking around the edges with the rubber mallet or hammer and block of wood.

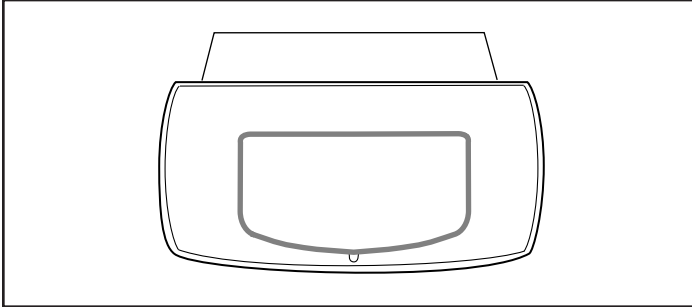


Figure 2 - Griddle gasket.

Ash Door

You may find it helpful to remove the ashpan bracket from the inside of the ashdoor; use a 7/16" wrench for this.

Remove the old gasketing and clean the gasket channel thoroughly. Clean the ash door and the mating edges of the ash drop. Cut the required length of gasket plus one inch. Place a continuous 1/8" bead of cement in the channel and press the gasket into place, trimming the excess carefully. Replace the ashpan bracket(s) if you removed them. Close and latch the ash door to seat the new gasket.

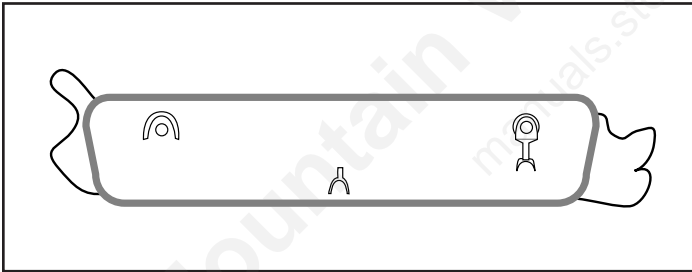


Figure 3 - Ashdoor gasket.

Front Doors

Carefully remove the doors and place them face down on a padded surface. Note where the gasket ends are trimmed, so you can make an exact replacement.

- Pull out the old gasketing and clean each gasket channel with the wire brush.
- Lay the new glass fiber in place and trim to length.
- Place a continuous 1/8" bead of gasket cement in the gasket channel and press the trimmed gasketing into place. Remove any excess cement that may have squeezed out around the gasket.
- If you are also replacing the glass gasket, go on to the next section. If you are not dealing with the glass gasket, you are finished.

- Replace the doors on the stove and latch the doors to seat the gasket.

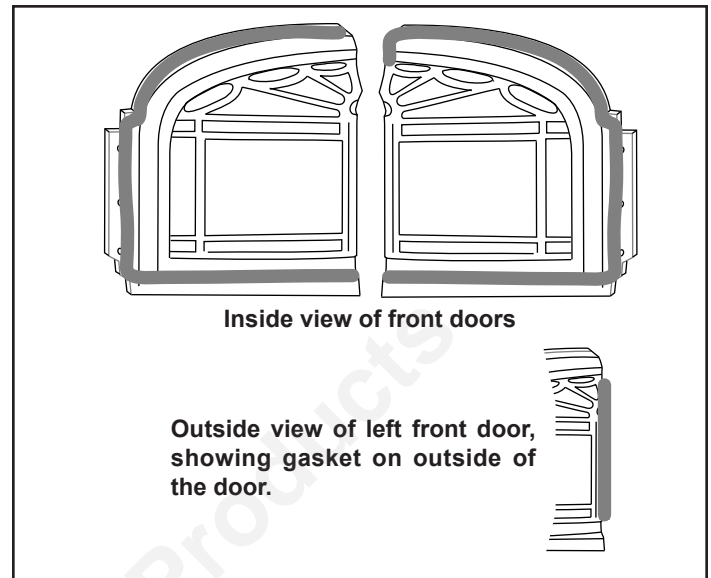


Figure 4 - Door perimeter gasket.

Glass

- Remove the door assemblies and place on a padded surface, inner side up.
- Remove the screws and retainer clips from both doors. Lift out both glass panes. Keep track of which door is right and which is left as there is a coating on the glass. Pull off the old glass fiber gasket and clean the channels thoroughly.
- Cut the required replacement gaskets, allowing a little excess. Place a continuous 1/8" bead of cement in each channel and press the gaskets into place, trimming the excess carefully, and removing any excess cement.
- Clean both sides of each pane of glass.
- Center the glass on the gasket. Be sure to place the pane with its coated side facing out into the room.
- Replace the retainer clips and tighten the screws. Skip to "Testing the Gasket Seals".
- Replace the doors on the stove.

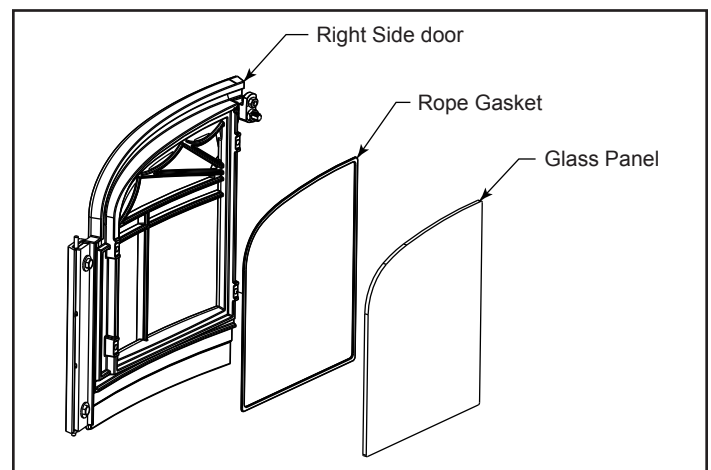


Figure 5 - Glass gasket.

Testing the Gasket Seals

After the cement has had several hours to dry, test the new door seal by closing and latching the door on slips of paper or dollar bills, placed at approximately 6" intervals along the top and bottom of the door opening. Be sure to include the area where the right front door overlaps the left door. It should not be possible to slide the papers, and they should be pulled straight out only with considerable resistance. If the paper pulls out easily, readjust the doors as needed until the doors hold the paper tightly. Do not apply this test to the glass gasketing - it is not accessible and does not get the repeated impacts that other seals receive.

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