



Resolute Fireback Replacement Instructions

Materials Provided:

- Lower fireback
- Upper fireback w/damper and damper link attached
- 2, 1/4-20 x 1" Hex head bolts and acorn nuts
- 1, 1/4-20 x 1 1/4" Phillips flat head machine screw (Left insert)
- 1, 1/4-20 x 2" Phillips flat head machine screw (Right Insert)
- 1, Tube furnace cement

Tools Required:

- | | |
|--------------------------------|---------------------------|
| Rubber mallet or block of wood | Phillips Head Screwdriver |
| 1/4" Drill and bit | Regular screwdriver |
| Penetrating oil | 5/32" Allen wrench |
| Old vacuum cleaner | Drop light |
| | Protective eyewear |

Preparation

The installation of the Resolute two piece fireback can be accomplished by one person but it may be helpful to have an assistant. Please read through the instructions presented here to familiarize yourself with the components and the procedure.

Wear old clothes and cover the area surrounding the Resolute with newspaper or drop cloth. Clean the inside of the stove of sand and ashes (you may want to save some to reline the stove bottom when finished).

Set aside at least one hour for the removal and installation of the fireback. The job may take two or three hours to complete.

Procedure

1. Remove the griddle, flue collar, flue collar extension and front door.
2. Remove the Phillips head screw from the right insert and pry the right insert out with the large screwdriver. If the screw is difficult to remove, you can often loosen it by holding the screwdriver in place and striking it a few times with the hammer. Use of penetrating oil on hard-to-remove screws is often helpful. Follow

manufacturer's directions. Usually the oil needs to soak the threads of the screw for 10 to 15 minutes.

3. Remove the Phillips head screw from the left insert and take out the left insert.
4. Pull the fireback out, catching the damper ears and damper as you do so. Unhook the damper linkage from the damper rod.
5. Clean the remaining ashes and furnace cement front the inside of the stove. Be sure to clean the cement channels on the back of the stove and lower fireback so the new cement will adhere.
6. Cement the secondary air tube channel in the stove back. (Fig. 1)

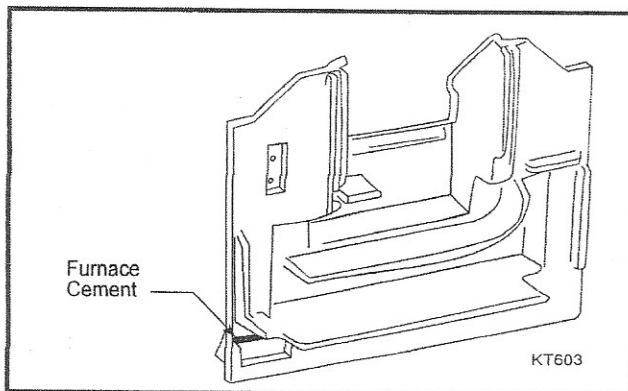


Fig. 1 Apply cement to the secondary air tube channel in stove back.

7. Cement the secondary air tube channel on the back of the lower fireback. (Fig. 2)
8. Set the new lower fireback in place.

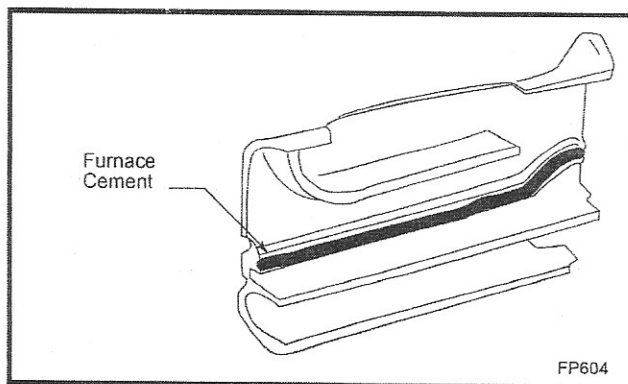
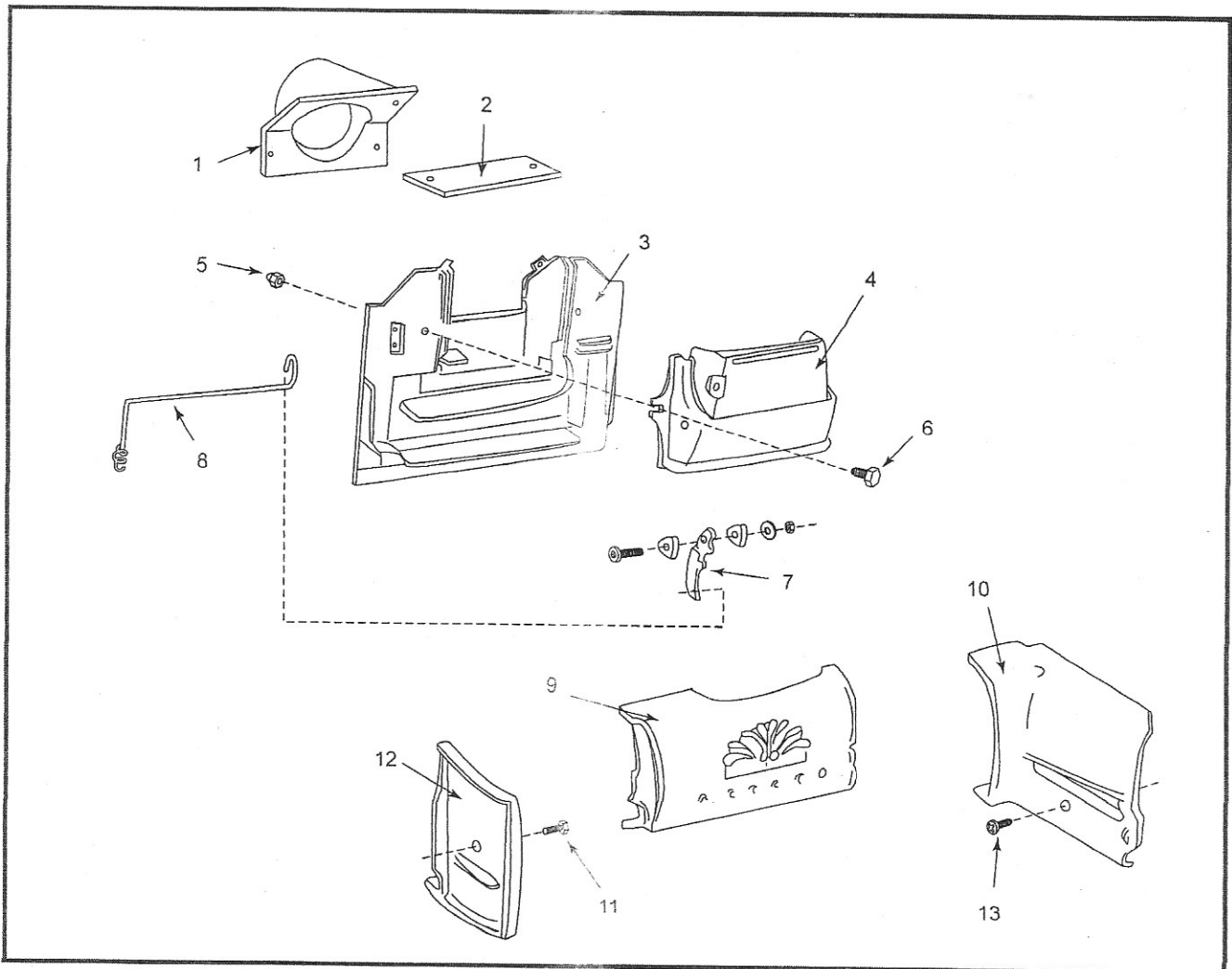


Fig. 2 Apply cement to the secondary air tube channel on the back of the lower fireback.

9. Set the left insert in place. Make sure the lower fireback is pushed all the way against the back plate. Replace the 1/4-20 x 1 1/4" self-tapping Phillips head screw and tighten to hold the left insert in place.
10. Replace the right insert; it fits very tightly against the fireback so you will have to hammer it into place with the rubber mallet. Replace the 1/4-20 x 2" Phillips head screw and tighten to hold the right insert in place.
11. Hold the upper fireback, with the damper and damper linkage attached, inside the stove. Turn the assembly to a vertical position to hook the damper link onto the damper rod (damper handle should be pointing downward). Turn the assembly clockwise to a level position to engage the damper link.
12. Have your assistant raise the upper fireback and damper into place and raise the damper link. Hold the upper fireback securely in place on top of the lower fireback and operate the damper handle to check for free movement.
13. Move the damper to its locked, closed position: damper up, damper handle pointing down.
14. Wear protective eyewear for this step. Reaching in through the front door opening, hold the upper fireback and the damper firmly in place with one hand (or have your assistant hold them from behind the stove) and drill two holes through the stove back using the two slots in the upper fireback as guides for the drill bit. On the left slot, drill as close as possible to the inside of the slot so you clear the thermostat cover on the stove back. If by chance there is not enough room to tighten the acorn nut, you will have to mark the spot on the thermostat cover, remove it and grind an opening in the edge of the thermostat cover.
15. Insert the two 1/4-20 x 1" hex bolts through the holes and tighten the acorn nuts onto them.
16. Again, check the damper for free movement, open and closed, and into its locking position.
17. Re-line the Resolute stove bottom with sand or ashes.

REMEMBER: You will have to begin a break-in procedure as described in your Operation Manual of 8 to 10 moderate fires to temper the cast iron in the replacement castings.



Resolute Parts

1. Flue Collar
2. Flue Collar Extension
3. Back
4. Upper Fireback and Damper Assembly
5. Acorn Nut
6. 1" Hex Head Bolt
7. Damper Link
8. Damper Rod
9. Lower Fireback
10. Right Insert
11. 2" Phillips Head Screw
12. Left Insert
13. 1 1/4" Phillips Head Screw



Adjustable Damper Link Repair for the Resolute Stove

The adjustable link replacement kit includes a two piece adjustable cast iron link that will replace the link now in your damper assembly.

Tools needed:

7/16" Box-end Wrench

5/32" Allen Wrench

Screwdriver

Hacksaw or bolt cutter (needed only if replacing a steel rod link)

Materials provided:

2-piece adjustable damper link

1/4-20 x 1/2" hex head cap screw and star washer

12-24 x 2" slotted round head screw, toplock nut and washer

Instructions

Procedure

Remove the cast iron thermostat cover from the back of the Resolute. This cover holds the damper handle securely in place.

With the 5/32" Allen wrench, remove the flue collar and flue collar extension.

The damper should be closed (in the up position).

Remove the 12-24 hex nut from the screw that holds the damper link to the back of the damper. You may have to hold the screw from turning by putting the edge of a screwdriver in the slot in the top of the screw while you remove nut.

If you are replacing a steel rod link, cut it with the hacksaw or bolt cutter. Remove the cut link from the damper tabs and the handle linkage hook. If you are replacing a cast iron link, lift the link off the handle linkage hook.

Assemble the two pieces of the adjustable cast iron damper link as shown below. The screw should be loose enough so that you can adjust the length of the link later in the procedure.

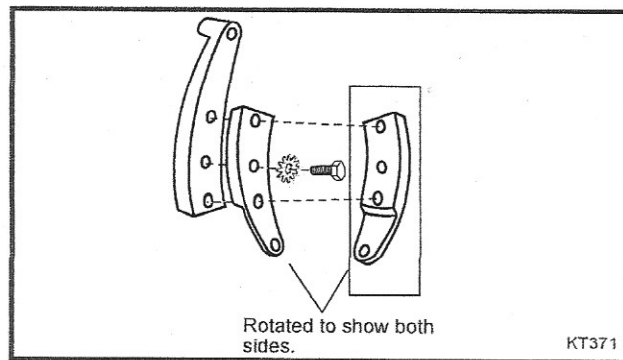


Fig. 1 Two piece, adjustable cast iron damper link.

Slide the bottom of the adjustable cast iron damper link onto the hook of the handle linkage hook. (Fig. 2)

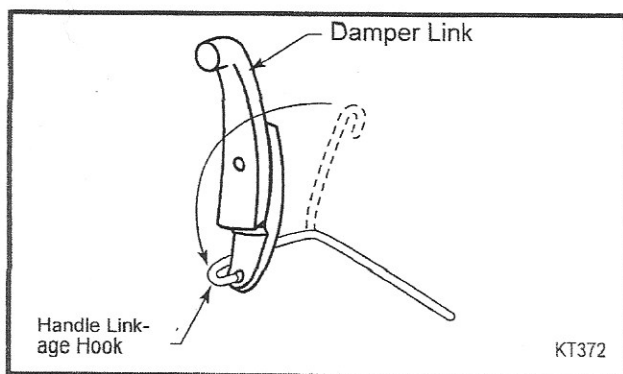


Fig. 2 Slide damper link onto handle linkage hook.

Align the upper hole of the adjustable cast iron damper link with the holes in the damper tabs. Slip the washer onto the 12-24 x 2" screw. Then slide the screw through the damper tabs as shown in Figure 3. Secure the screw with the nut provided.

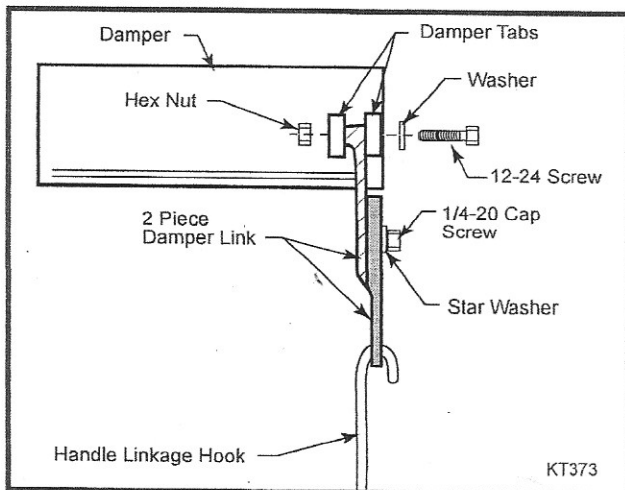


Fig. 3 Align upper hole of damper link with holes in damper tabs. Attach with 12-24 screw, washer and hex nut.

Secure the screw with the nut provided.

While holding the damper handle in place between the guides in the back of the stove, replace the thermostat cover.

Adjust the length of the link as follows: Holding the damper fully closed, lengthen the adjustable link as far as possible using moderate hand pressure, and tighten the nut on the linkage with the box-end wrench. Be sure the outside edges of the two pieces of the link line up exactly as you tighten the screw. It is normal for the damper to fall open slightly when pressure on the damper handle is released.

Open and close the damper a few times to test the adjustment. As you move the damper handle from the open position (pointing up) to the closed position (pointing down), you should feel resistance when the handle is at about the 4:00 position. (Fig. 4)

Snap the handle firmly past the point of resistance to the fully closed position. If the damper does not stay closed, lengthen the adjustment of the length. If it is very difficult to snap the handle down into the fully closed position, shorten the adjustment slightly.

Replace the flue collar and flue collar extension. Alternately tighten each screw in order to maintain an even seating of the flue collar pieces.

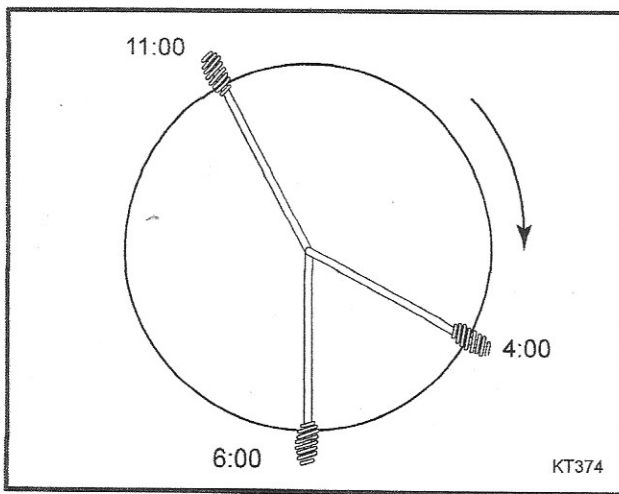


Fig. 4 Open and close the damper a few times to test the adjustment.

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MIDWEST HEARTH

Gasket Kit #3440

Installation Instructions for the Vigilant, Resolute, Intrepid, Intrepid II and 1975 - 1988 Defiant* stoves

Vermont Castings' stoves use a rope-type gasket to make a seal between some parts. With use, this gasket can become compressed and begin to lose its effectiveness. It should then be replaced. *1975 - 88 Defiants do not have glass in the front doors.

Contents

- 4' of steel reinforced griddle gasket
- 12' of 5/16" door gasket
- 5' of 3/16" glass gasket
- 1 tube of gasket cement

Tools Required:

- Utility knife
- Rubber mallet, or hammer and block of wood
- Wire brush
- Flat-blade screwdriver

Installation Precautions

Wait until the fire is out and the stove has cooled before replacing the gasket, and be sure to follow the standard safety procedure for working with dusty materials: Wear safety goggles and a dust mask.

Installation Instructions

On most stoves you can remove the door(s) simply by swinging them back and forth while lifting, to free the hinge pins from their supports. Set the door(s) down on a flat, padded surface, such as a rug scrap or old towel.

The procedure for replacing the gaskets is the same, regardless of stove type.

1. Remove the existing gasket by grasping an end and pulling firmly.
2. Use a wire brush or the tip of a screwdriver to clean the channel of any remaining cement or bits of gasket. Remove stubborn deposits of cement with a cold chisel if necessary.

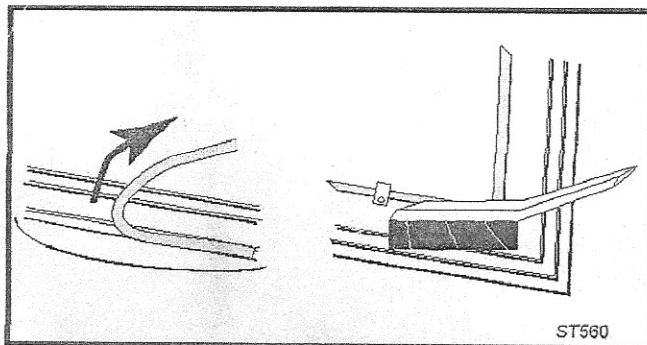


Fig. 1 Remove gasket then clean channel with wire brush.

3. Determine the correct length of the appropriate-sized gasket by laying it out in the channel. Allow an extra 1-2" (25-51 mm), and mark the spot to be cut.
4. Remove the gasket from the channel, place it on a wood cutting surface, and cut it at the marked spot with a utility knife. Twist the ends slightly to discourage the gasket from unraveling.

5. Apply the cement in the channel. Before you cut the tip of the cement tube, however, knead the tube thoroughly to help mix back into the cement any water that may have separated during storage. Practice applying the cement on a piece of newspaper before you actually place it in the channel.

Once you are familiar with the technique, lay a thin, unbroken 1/8" (3 mm) bead of cement in the channel. Avoid saturating the gasket with the cement. If saturated, the gasket will lose its resiliency.

6. Starting at one end, press the gasket into the channel. Ensure a good joint where the gasket ends meet before trimming any excess. Do not overlap the gasket ends or leave ends with ragged edges.

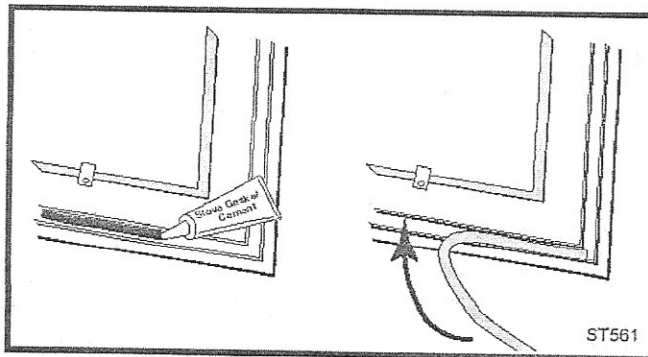


Fig. 2 Lay a bead of gasket cement then press gasket in place.

7. Replace the door(s) by aligning the hinge pins with the supports, and pressing down gently. It may help to swing the door back and forth gently as you press down. Press the part firmly against its normal mating surface to seat the gasket evenly in its channel. Tap it with the rubber mallet (or hammer/block of wood) to help seat it properly. Never hit cast iron directly with a metal hammer.
8. Clean any excess cement from around the channel; extra cement left on painted iron will leave a white residue. Extra cement will attack and dull an enamelled finish, so remove it immediately with a damp rag. Then, let the cement that holds the new gasket dry for at least 24 hours. Use a slip of waxed paper between the gasket and the mating surface to keep the cement from migrating through the gasket and sticking to the mating surface.
9. Test the gasket seal by closing the door or griddle on a piece of paper. Pull gently on the paper. A good seal will provide firm resistance. A poor seal will let the paper move freely.

If a poor seal is apparent after you have installed a new gasket and it cannot be corrected with door or latch adjustments, it may be necessary to insert shim gaskets under the new gasket or to take other corrective actions. Your dealer can provide the necessary materials and advice.

The stove's door latch(es) may need adjustment after you have installed a new gasket. Initially, it may require loosening to accommodate the gasket; after a few weeks, it may need tightening to compensate for the gasket compressing.

To adjust the door, first loosen the 7/16" lock nut on the door latch by turning it counterclockwise with a wrench. Then, turn the striker screw with an Allen wrench - counterclockwise for a tighter door, clockwise for a looser one.

Retighten the lock nut while holding the striker screw in position with the Allen wrench once you have achieved the proper adjustment.

Care of the Glass Panels

Most carbon deposits will burn off the glass during normal use. Constant deposits on the glass indicate low, smoky fires. However, if you wish to clean the glass panels, use only a cleaner especially made for cleaning stove glass. Your dealer can supply this.