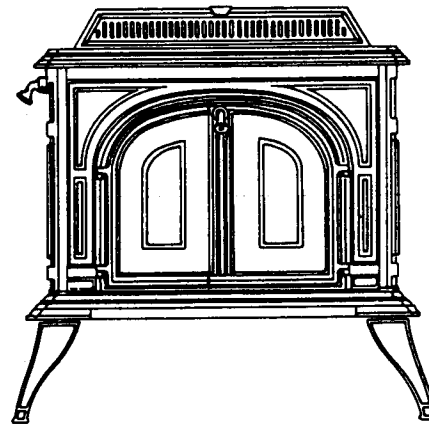
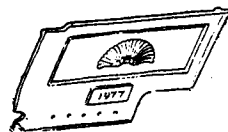

VIGILANT[®]

THE INSIDE STORY

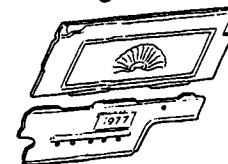


Rebuilding a Vigilant can be accomplished successfully by most stoveowners. Average household skills will be required.

Your Vigilant will have either a 1 piece fireback or a 2 piece fireback. Different repair procedures are used for the two models. See special instructions below.



ONE PIECE FIREBACK.



TWO PIECE FIREBACK.

This manual gives instructions for repairing and replacing parts in all Vigilants with three exceptions. To replace top or bottom castings of either model, or the damper of a Vigilant with a 1 piece fireback, check with an authorized Vermont Castings dealer.

VIGILANT WITH 1 PIECE FIREBACK: To replace the fireback it is necessary to completely disassemble the stove. Follow directions on page 3, "Disassembly of Stove". You will remove the 1 piece fireback as you disassemble the stove.

VIGILANT WITH 2 PIECE FIREBACK: To replace the fireback it is not necessary to completely disassemble the stove. To replace the 2 piece fireback, follow directions on page 4, "Disassembly of Interior Castings". For complete disassembly, first remove interior castings (page 4) and then disassemble exterior castings (page 3).

The design of some parts has changed since the first Vigilants were built. The parts in your stove may be different than the ones shown in the Exploded View Diagram. The function of the parts is the same. For questions about replacement parts or repairs, check with your local authorized dealer.

Remove coal components, except the Shaker Handle Support, from coal stoves. Refer to the Vigilant Coal Stove Manual.

Test fit all parts before final assembly with furnace cement.

Work quickly when using furnace cement. Cement dries quickly when exposed to the air.

Cast iron is heavy. Have someone assist you when moving the stove and performing the repairs. Directions are given as you face the front of the stove.

* **CAUTION:** It may be necessary to remove old furnace cement from iron castings, and to grind or file new cast iron parts to assure proper fit. **WEAR GLOVES, SAFETY GOGGLES AND A PARTICLE MASK WHEN WORKING ON YOUR STOVE.**

CONTENTS:

Disassembly of Stove	Page 3
Disassembly of Interior Castings	Page 4
Assembly of Exterior Castings	Page 5
Assembly of Interior Castings	Page 7

TOOLS NEEDED:

9/16" Open End Wrench for leg bolts
 Blocks of wood or cement to support stove
 Large (#3) Phillips Head screwdriver
 Medium (#2) standard screwdriver
 7/16" Deep Socket for or wrench for Tie Rod Nuts
 5/32" Allen Wrench for Damper Handle
 Hammer & Block of Wood, or Rubber Mallet

Shop light
 Drop Cloths
 Vise Grips
 Caulking Gun
 Shop vacuum cleaner
 Grinder or file

Old Clothes
 Wire Brush
 Rags
 Liquid Wrench
 10' of rope
 Putty Knife

SAFETY GOGGLES _____

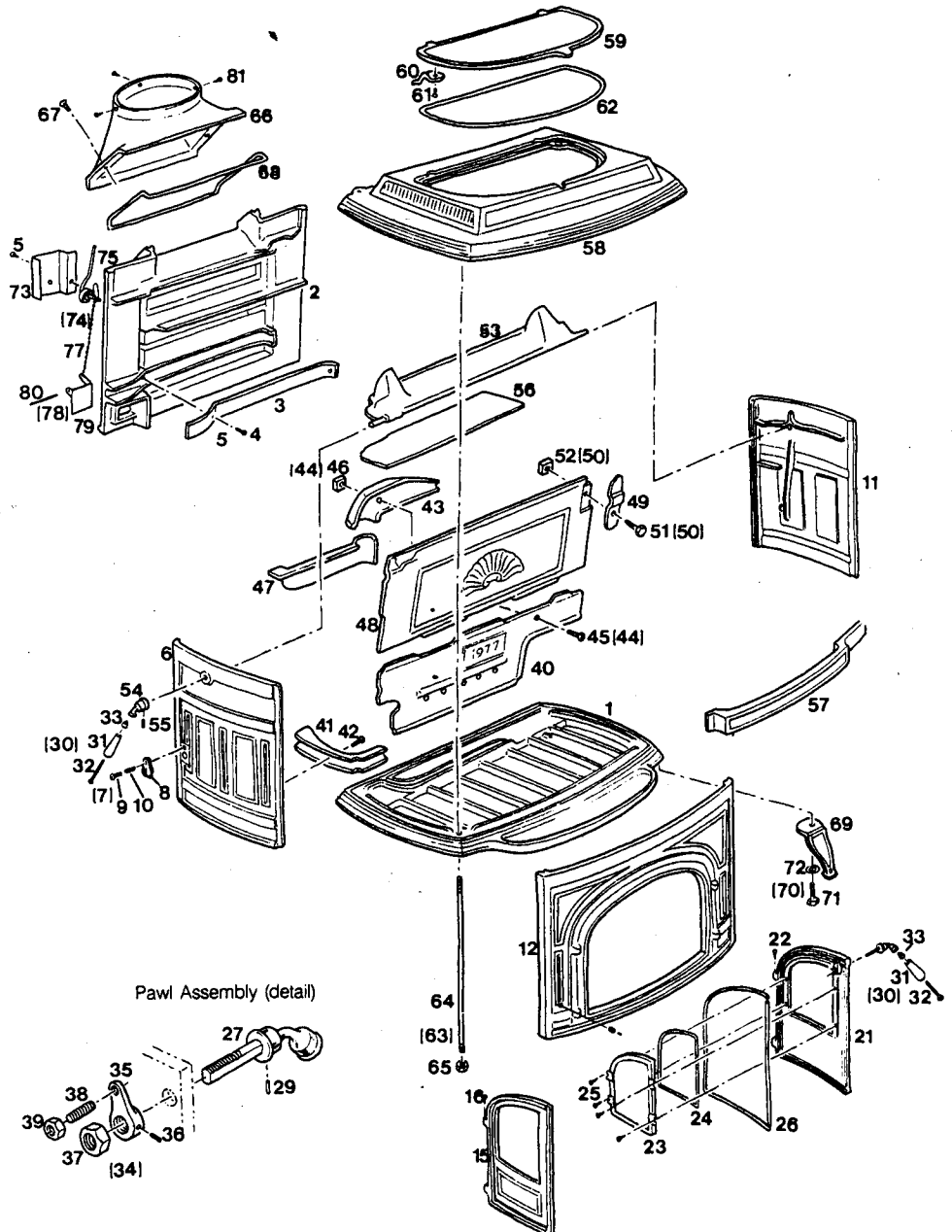
PARTICLE MASK _____

GLOVES _____

ILLUSTRATED PARTS BREAKDOWN

Name of Part

- 1 Bottom
- 2 Back
- 3 Night Air Cover
- 4 1/4-20 x 1 1/2" Fl.Hd. Self-tapping Scr. (2)
- 5 10-24 x 1/2" Phil. Truss Hd. Mach. Scr. (4)
(1-thermostat cover and 3-other heat shield holes)
- 6 Left End
- 7 Secondary Air Control Assembly
- 8 Secondary Air Control
- 9 10-24 x 3/4" Slotted Truss Hd. Mach. Scr.
- 10 Tension Spring
- 11 Right End
- 12 Front
- 13 Front w/doors (not shown)
- 14 1/4-20 x 3/8" Slot Set Scr.
- 15 Left Door
- 16 3/16 x 1 1/8" Door Pin (2)
- 17 Left Door Insert
- 18 1/8" Thermocord Gasket (2')
- 19 10-24 x 1/2" Slot Rd. Hd. Mach. Scr. (4)
- 20 5/16" Thermocord Gasket (3')
- 21 Right Door
- 22 3/16 x 1 1/8" Door Pin (2)
- 23 Right Door Insert
- 24 1/8" Thermocord Gasket (2')
- 25 10-24 x 1/2" Slot Rd. Hd. Mach. Scr. (4)
- 26 5/16" Thermocord Gasket (3')
- 27 Front Handle w/pawl
- 28 Front Handle w/pawl
- 29 1/8" x 5/8" Roll Pin
- 30 Ceramic Shaft w/screw
- 31 Ceramic Handle
- 32 1/4-20 x 3 3/8" Slot Oval Hd. Mach. Scr.
- 33 Steel Handle Insert
- 34 Pawl Assembly (see detail)
- 35 Pawl
- 36 1/4-20 x 1/4" Knurl Cup Pt. Soc. Set Scr.
- 37 3/8-16 Centerlock Hex Nut
- 38 1/4-20 x 1" Oval Pt. Hex Hd. Soc. Set Scr.
- 39 1/4-20 Hex Nut
- 40 Lower Fireback
- 41 Primary Air Tube
- 42 1/4-20 x 1 3/4" Phil. Fl. Hd. Mach. Scr.
- 43 Coverplate B
- 44 Coverplate B - Screw and Nut
- 45 1/4-20 x 2" Flat Head Machine Screw
- 46 1/4-20 Square Nut
- 47 Coverplate A
- 48 Upper Fireback
- 49 Damper Retainer
- 50 Damper Retainer Screw and Nut
- 51 1/4-20 x 3/4" Hex Hd. Cap Scr.
- 52 1/4-20 Square Nut
- 53 Damper
- 54 Damper Handle
- 55 5/16-18 x 5/16" Soc. Set Scr.
- 56 Smokesheff
- 57 Ash Fettle
- 58 Top
- 59 Griddle
- 60 Griddle Quadrant (2)
- 61 1/4-20 x 1/2" Hex Hd. Self-tapping Scr. (2)
- 62 5/16" Armaseal Gasket w/core (4')
- 63 Tie Rod Set
- 64 Tie Rod (4)
- 65 1/4-20 Hex Nut (4)
- 66 Flue Collar
- 67 1/4-20 x 1" Phil. Rd. Hd. Mach. Screw (2)
- 68 1/4" Thermocord Gasket (2')
- 69 Leg (4)
- 70 Leg Bolt Set
- 71 3/8-16 x 1 1/4" Hex Head Cap Screw (4)
- 72 3/8" Flat Washer (4)
- 73 Thermostat Cover
- 74 Thermostat Assembly
- 75 Thermostat Lever/Coil
- 76 Tension Spring
- 77 Ball Chain (18")
- 78 Air Shutter and Pin
- 79 Air Shutter
- 80 Hinge Pin
- 81 #10 x 1/2" Slot Pan Hd. Sheetmetal Scr. (3)



DISASSEMBLY of STOVE

Note: If your Vigilant has a 2 piece fireback, see page 4 for instructions for removing interior castings.

STEP 1 PREPARATION

With assistance, lift the Vigilant up onto wooden or cement blocks so that you can remove the legs.

Remove the Legs, Flue Collar, Griddle, Doors and the Damper Handle.

Remove the Primary Air Tube. If the screw is too tight, tap the screwdriver with a hammer to loosen it.

STEP 2 REMOVE TOP

NOTE: When removing plates that are cemented together, always use a rubber mallet or hammer and block of wood. DO NOT hammer on any casting with a metal hammer.

Using a 7/16" Deep Socket, unscrew and remove all four Tie Rod Nuts. The nut may come off, or the Tie Rod may become unscrewed from the Top Plate. Either case is alright. Strike the end of the tie rods with a hammer to shock the threads loose.

Tap upward around the edges of the Top Plate with the hammer and block of wood, or with a rubber mallet (FIG. 1). Lift the Top Plate off with the Tie Rods attached. Set aside the Top Plate for cleaning.

Unscrew the Tie Rods with vise grips held as closely as possible to the Top Plate; you want to avoid any possibility of the Tie Rods breaking off inside the Top Plate.

STEP 3 REMOVE THE LEFT END

Tie a rope loosely around the stove to prevent the castings from falling as you begin to remove them.

Note: If your Vigilant has a "wrap-around" front as shown in the Exploded View, remove the Front first before removing the Left End.

Tap the upper edge of the Left End outward to loosen. As the Left End leans outward, it will slip over the Damper Pin. Lift up on the Left End and remove.

Lift out the Damper. Lift out the Smokesheff (FIG. 2).

STEP 4 REMOVE REMAINING INTERIOR AND EXTERIOR CASTINGS

Tap the upper edge of the Right End to loosen. Push the Right End outward to release the Fireback. While keeping the Right End temporarily in place, pull the fireback upward and toward the Left End to remove.

Remove Coverplate A by prying and lifting it out.

With the rope still in place, lift out the Right End.

Holding the Back Plate in place, lift out the Front Plate. Lift out the Back Plate.

YOU HAVE NOW COMPLETED THE DISASSEMBLY OF YOUR VIGILANT.

STEP 5 CLEANING

At this time, cast plates must be thoroughly cleaned of all furnace cement and ash. Pay particular attention to the channels using hammer and chisel or screwdriver. It is helpful to use a vacuum cleaner to remove dust and soot particles from the castings and stove bottom.

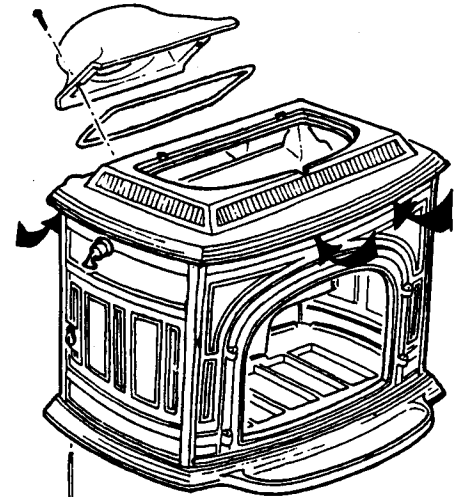


FIG. 1 HAMMER UPWARD TO LOOSEN TOP PLATE

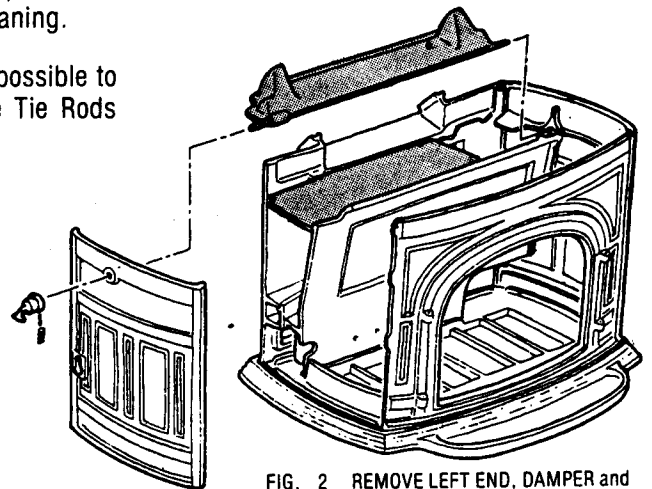


FIG. 2 REMOVE LEFT END, DAMPER and SMOKESHEFF

DISASSEMBLY of INTERIOR CASTINGS

Note: These instructions are for a Vigilant with a 2 piece fireback.

STEP 1 PREPARATION

Remove Griddle, Flue Collar, Doors. Close the damper (handle pointing down, damper vertical).

Using your vise grips, hold the ¼-20 nut behind the Upper Fireback and unscrew the cap screw to remove the Damper Retainer.

STEP 2 REMOVE DAMPER AND SMOKESHELF

Unscrew the allen screw with 5/32" allen wrench and remove the Damper Handle.

Slide the Damper to the right, angle it up and back to clear a small ridge in the Back Plate. Disengage the Damper Shaft from the Left End then swing it in front of the Upper Fireback and angle the Damper out through the front door opening (FIG. 3).

Lift out the Smokesheff.

STEP 3 REMOVE UPPER AND LOWER FIREBACKS

Remove the Primary Air Tube from the Left End. You may need to use penetrating oil, or tap the screwdriver with a hammer to loosen the screw.

Lift the Upper Fireback to disengage it from the tabs on the Lower Fireback, and guide it out of the support ridges in the Right and Left Ends. Direct it out through the front door opening or griddle.

Tap the Lower Fireback with the rubber mallet to break the cement seal holding it in place. Lift first the right then the left sides of the Lower Fireback up and over the support ridges in the Right and Left Ends. Angle it out the front door opening or griddle (FIG. 4).

Remove Coverplate A.

YOU HAVE NOW COMPLETED THE DISASSEMBLY OF THE INTERIOR CASTINGS.

STEP 4 CLEANING

At this time, cast plates must be thoroughly cleaned of all furnace cement and ash. Pay particular attention to the cement channels using a hammer and screwdriver to remove loose cement.

Note: If you wish to disassemble the exterior castings, follow the instructions on page 3.

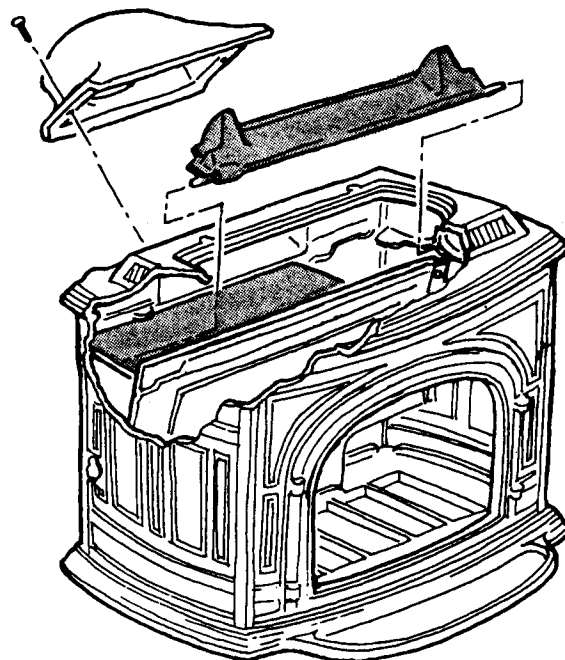


FIG. 3 REMOVE DAMPER and SMOKESHEFF

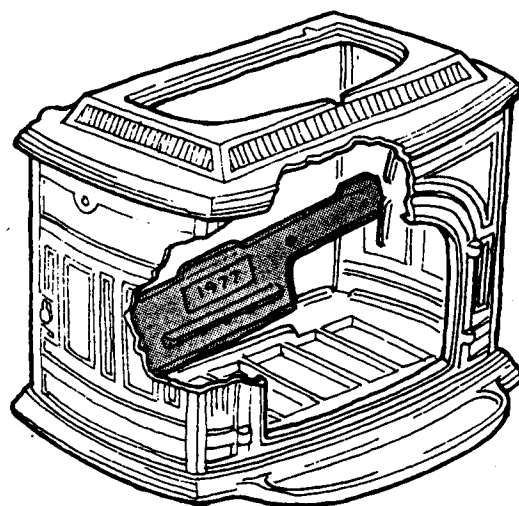


FIG. 4 REMOVE LOWER FIREBACK

ASSEMBLY of EXTERIOR CASTINGS

Note: The instructions on pages 5-8 are for reassembling your Vigilant with a 2 piece fireback. If you wish to rebuild your Vigilant with the original 1 piece fireback, call the Customer Service Department in Randolph, VT for instructions. (802-728-9561)

Lay all the parts out on the floor in sequence. We recommend that you reassemble the stove once without cement to make sure all parts fit. New parts may have to be filed or ground.

All instructions in italics concern cementing or steps for the permanent assembly. Follow the non-italicized instructions for the dry assembly.

STEP 1 CEMENT EXTERIOR CASTINGS

Set the Bottom Plate on wooden or cement blocks, high enough to replace the legs.

Tape the Leg Bolt holes with masking tape to prevent them from filling with furnace cement.

Cement the five channels on the Bottom Plate for placement of the Front, Back, Right, End, Left End, and Coverplate A (FIG. 5).

Cement the side channels on the Right End and the Left End.

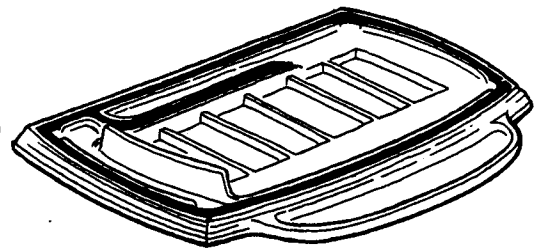


FIG. 5 CEMENT CHANNELS IN BOTTOM

STEP 2 INSTALL THE EXTERIOR CASTINGS

Set the Back in place in the rear channel. Lean the Back forward and support it with a block (FIG. 6).

Set the Right End in the right side channel. Move the Back Plate into an upright position fitting it into the correct channel in the Right End. (Remove the support block).

Note: If your stove has a "wrap-around" front, install the Left End first and then the Front.

Set the Front into place fitting the edge into the correct channel in the Right End.

Set the Left End into the appropriate channel in the Bottom. Move it to an upright position fitting the channels over the Front and Back Plates (FIG. 7).

Tie a rope tightly around the body of the stove.

With a rubber mallet or hammer and block of wood, tap all edges and corners to set the exterior castings in place. Tighten the rope.

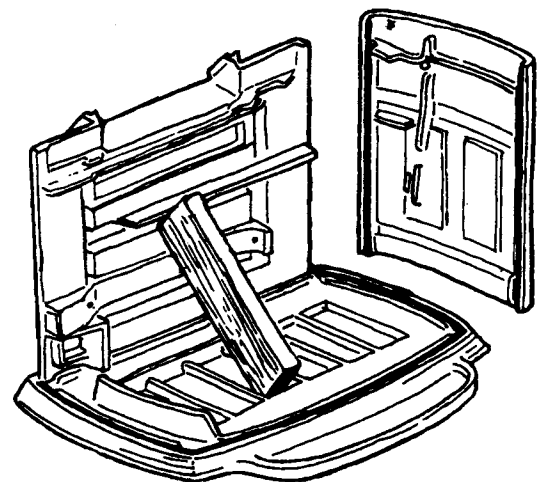


FIG. 6 SUPPORT BACK WITH A BLOCK OF WOOD. INSTALL RIGHT END

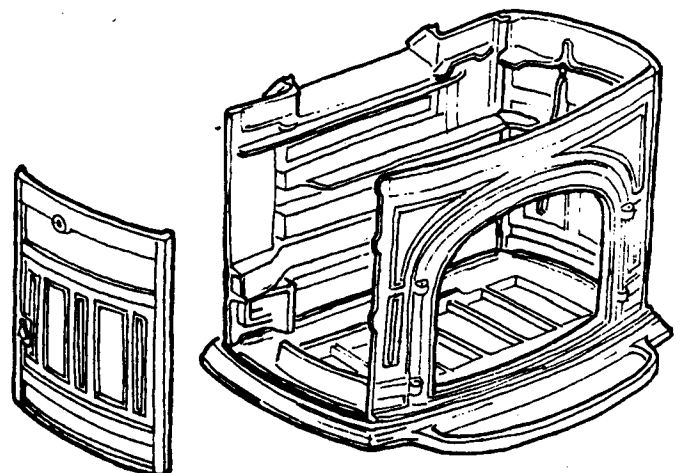


FIG. 7 INSTALL LEFT END

NOTE: You may wish to assemble the interior cast plates (pg. 7) before you install the Top Plate and Tie Rods.

STEP 3 INSTALL TOP PLATE

Set the four Tie Rods in place through the holes in the Bottom Plate with the longer threaded ends pointing down. The Tie Rods can rest on the floor while the Top is being replaced.

Cement the four channels in the Top Plate (FIG. 8).

Set the Top Plate in place; hammer the top edge of all the side plates and the Top Plate to make sure that all are set securely into the channels.

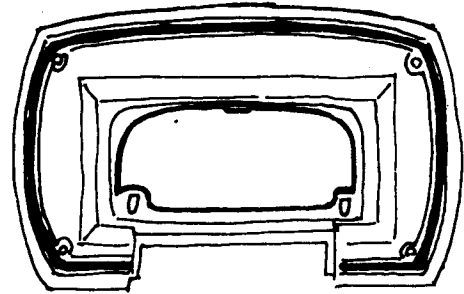


FIG. 8 CEMENT CHANNELS IN TOP PLATE

STEP 4 INSTALL THE TIE RODS

Thread the Tie Rods into the Top Plate and hand tighten. Thread the nuts a few turns onto the bottom of the Tie Rods (FIG. 9).

With vise grips, hold the bottom of the Tie Rod and tighten further into the Top Plate. Tighten the nuts with a 7/16" deep socket. Repeat this alternate tightening with each nut. When the Tie Rod feels secure, wrench the protruding end back and forth with the vise grips to break it off just below the nut. (This step is necessary to allow the replacement of the legs.) Repeat for the other three Tie Rods.

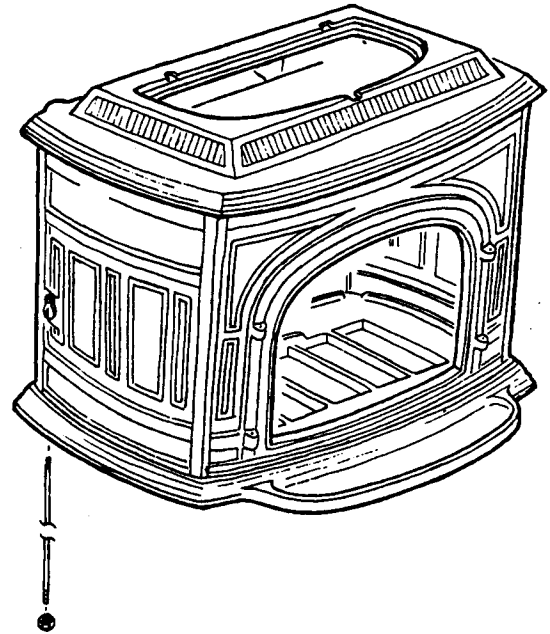


FIG. 9 REPLACE TIE RODS

THIS COMPLETES THE DRY ASSEMBLY— YOU CAN NOW BREAK DOWN THE STOVE AND RETURN TO STEP 1 FOR THE PERMANENT ASSEMBLY.

ASSEMBLY of INTERIOR CASTINGS

STEP 1 REPLACE LOWER AND UPPER FIREBACKS

Cement Coverplate A in the channel surrounding the air inlet (see Fig. 10).

Replace Coverplate A in its channel in the Bottom Plate (FIG. 11).

Cement the Coverplate ridge on the back of the Lower Fireback. Attach Coverplate B (FIG. 12). Leave the screw loose so that when the Lower Fireback is replaced, Coverplate B will overlap Coverplate A.

Replace the Lower Fireback by angling the left side in through the front door opening. Place that side into the guides in the Left End Plate. Then lift the right side of the Fireback to slip it back and over a single ridge running approximately half way up the inside of the Right End (FIG. 13). Since you are also pressing the Coverplate into position, this step is the most difficult and may take several tries. Set the Lower Fireback down into the Bottom Plate with a few taps from the rubber mallet. When Coverplate B and the Lower Fireback are in place, tighten the screw and nut holding Coverplate B.

Guide the Upper Fireback through the griddle opening, left side first. Hold the Fireback in its normal position and lift it up and over the tabs in the Lower Fireback while guiding it into the support ridges on first the Left, then the Right End. Again, set the Upper Fireback with the rubber mallet.

Replace the Smokeshef.



FIG. 10 CEMENT COVERPLATE A

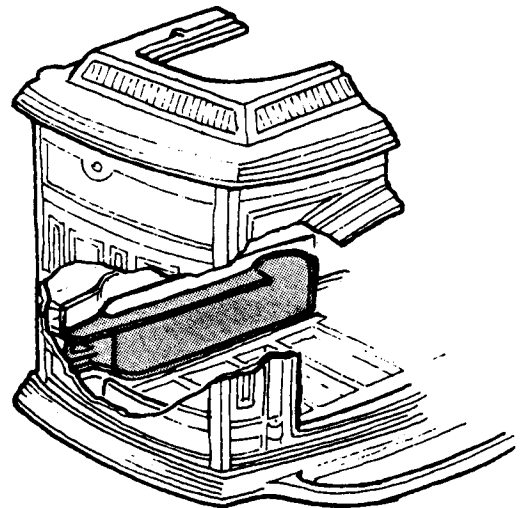


FIG. 11 REPLACE COVERPLATE A

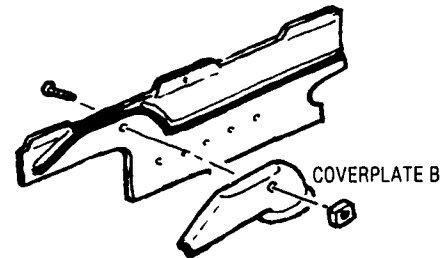


FIG. 12 CEMENT COVERPLATE RIDGE ON BACK OF LOWER FIREBACK

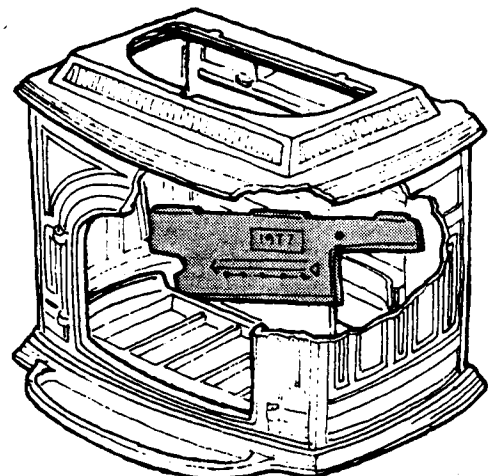


FIG. 13 REPLACE LOWER FIREBACK

STEP 2 REPLACE THE DAMPER

Holding the Damper at a 45° angle, push the right end of the Damper up and as far back into the upper right corner of the stove as possible. This will allow space to swing the Damper Shaft up over the Upper Fireback. Now you will be able to pass the Damper Shaft through the hole in the Left End.

STEP 3 INSTALL DAMPER RETAINER CLIP

Replace the Damper Handle.

Close the Damper (handle pointing down, Damper vertical). Hold the ¼-20 nut behind the Upper Fireback while securing the Damper Retainer into place (FIG. 14).

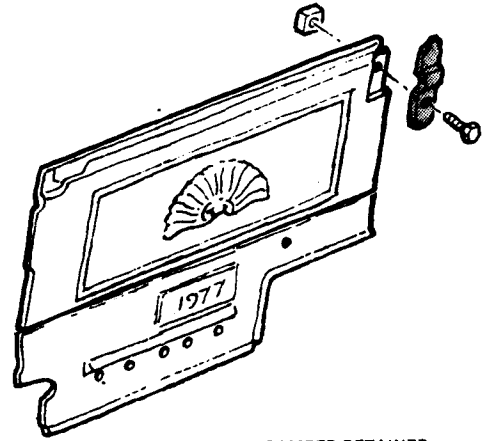


FIG. 14 INSTALL DAMPER RETAINER
View from Inside the Stove

STEP 4 INSTALL THE PRIMARY AIR TUBE

Replace the Primary Air Tube on the Left End (FIG. 15).

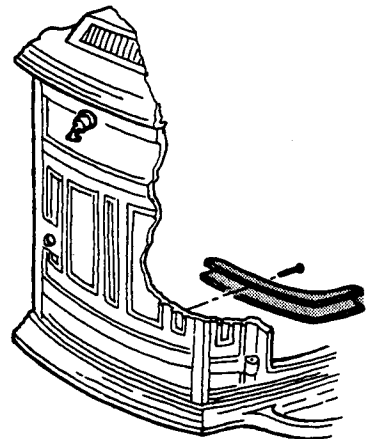


FIG. 15 REPLACE PRIMARY AIR TUBE

STEP 5 FINISHING

The furnace cement sets up fairly quickly. Remove excess cement from exterior seams using a putty knife, and then smooth with your finger or a damp sponge. Wash cement residue off the plates using warm water and a sponge.

Replace the Legs, Flue Collar, Damper Handle, Griddle and Front Doors and Secondary Air Control and spring.

Repaint the stove with the touch-up paint supplied with the materials.

Reline the bottom of the stove with a 1½" layer of sand or ash.

REMEMBER: YOU MUST BUILD EIGHT TO TEN SMALL BREAK-IN FIRES WITH THE DAMPER OPEN TO TEMPER THE CAST IRON REPLACEMENT PARTS IN YOUR STOVE.

**SAVE THIS INFORMATION
FOR FUTURE REFERENCE**

Please log all purchase information here, as it will be helpful for servicing or warranty:

Model Vigilant
Serial # 047595

(this is located on a metal tag permanently attached to the back, side or ash door of your Vermont Castings FirePlace)

Date of Manufacture 1977

(Located on an inspection card with your operation/installation guides)

Where did you purchase? _____

Date of Purchase: _____