



*Replace the Refractory  
Package For the Vermont  
Castings*

Defiant Encore Models:

**#0028**

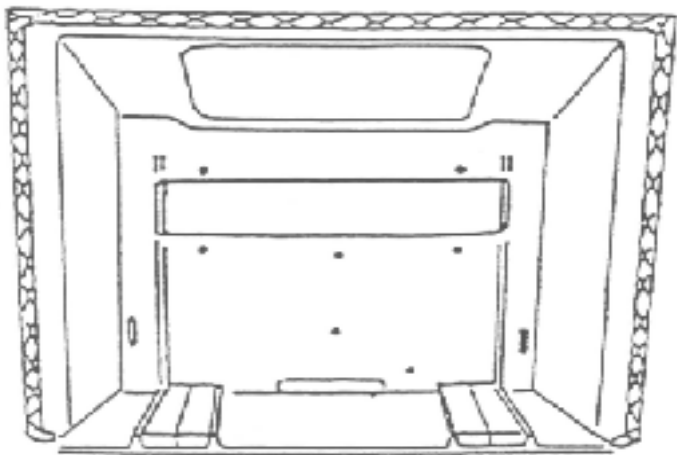
**#2140**

# **Replacing or Servicing the Refractory Assembly**

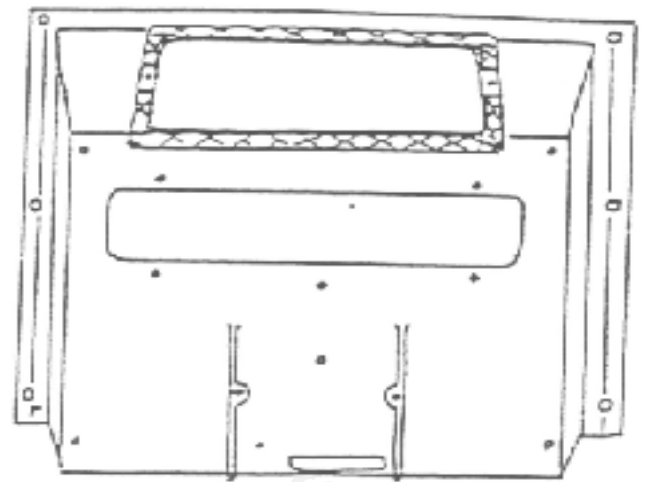
## **Tools Required**

- 7/16" Combination Wrench (box & open)
- Cold Chisel, 1/2"
- Hammer, Ball Peen, 12 oz.
- Caulking Gun Frame
- Safety Goggles
- Furnace cement, 11 oz. tube
- Masking Tape
- Tape Measure, 6"
- Shears, 10"- 12"

- STEP 1: Remove the 6 screws that fasten the stove back to the right and left stove ends.
- STEP 2: Remove the two Phillips bolts holding the flue collar on and put the collar to one side. If left on the back, the flue collar will interfere with lifting up the back in the removal process.
- STEP 3: Tap the cold chisel into the seam where the bottom flange of the stove back joins the stove bottom to break the cement seal.
- STEP 4: Lift the stove back up out of its cement groove in the stove bottom and pull the back from the stove, bottom first.
- STEP 5: Replace and/or replace service the refractory package, catalyst block, heat exchanger, heat deflectors and refractory cover. Clean the catalyst block and refractory package with low pressure air.
- STEP 6: Reassemble the refractory assembly. Tape the heat exchanger, catalyst block access panel and refractory cover in place with masking tape.
- STEP 7: Inspect the kaowool (ceramic wool) strips in the lower fireback and the bottom of the stove back. See Figures 3 & 4 on the next page. If the kaowool strips are compressed below the top edge of the inside ribs of either the lower fireback or the stove back, replace them. The kaowool strips when in place must provide a complete seal as well as a cushion for the refractory package.
- STEP 8: Clean all old furnace cement from the bottom flange of the stove back and the stove back cement channel in the stove bottom.
- STEP 9: Re-gasket the stove back. See Figures 1 & 2 on the next page. Fill the stove back cement channel in the stove bottom with thermocement.
- STEP 10: Place the refractory package into the stove back. Place the right and left heat deflectors into their proper positions in the stove back.



**Fig. 1 Back (Inside)**

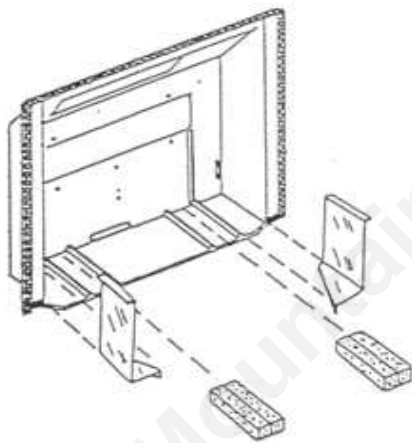


**Fig. 2 Back Outside (Flue Collar)**

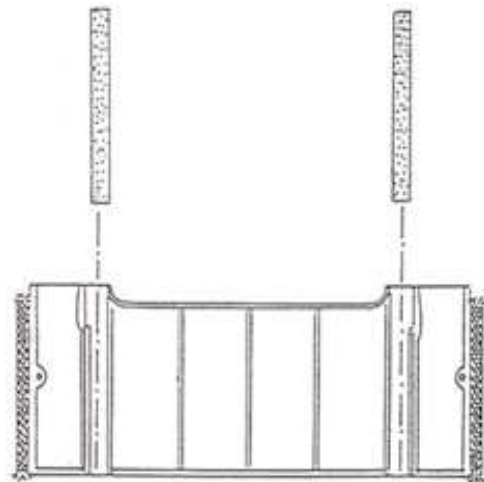
STEP 11: Install the stove back.

Back (Fig.1) Stove back to ends and top seal, 1 piece, 5' thermocord, 5/16" diameter, 6 needle, part # 1203588.

Back (Fig.2) Stove back flue collar seal, 1 piece, 3.25', 5/16" diameter, adhesive backed gasket, part # 1203591.



**Fig. 3 Kaowool & Heat Deflector Placement**



**Fig. 4 Kaowool Placement Lower Fireback**