



Large WinterWarm Service Procedure

Replacing the Large WinterWarm Refractory Assembly

Tools Required: dead blow hammer; 7/16" socket or wrench.

Time Required: Aproximately 1 hour

Materials Required: Large WinterWarm refractory package (1602510)

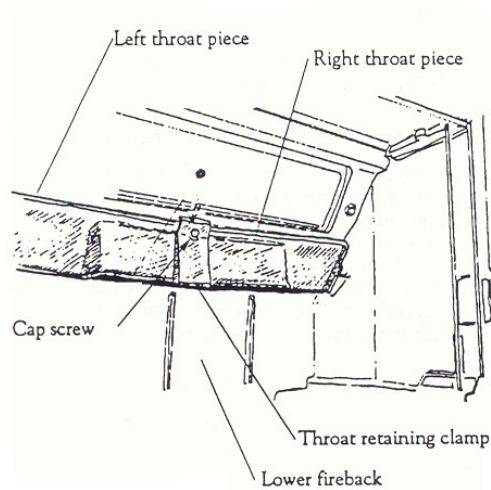
Optional Materials: Hardware for Upper Fireback - two 1/4-20 x 1 1/2" hex head cap screws (1201386) and two nut plates 1203105; hardware for throat clamp - 1/4-20 square nut (1203329) and 1/4-20 x 1 1/2" hex head cap screw (1201386)

Instructions

To replace the Large WinterWarm Refractory Package you must remove the throat pieces and the lower fireback first.

1. **Remove the front bar grate.** Please take note the exact orientation of the grate for simple replacement.
2. **Lift out the bottom ash grate.**
3. **Disengage the damper.** Move the actuator lever all the way to the left so the damper is all the way open. In this position it is angled toward the back of the stove. If you have access through the top of the stove, reach in through the flue collar opening and pull the damper forward so that it is disengaged from the damper actuator lever. If you do not have top access, the damper should disengage itself as it comes out.

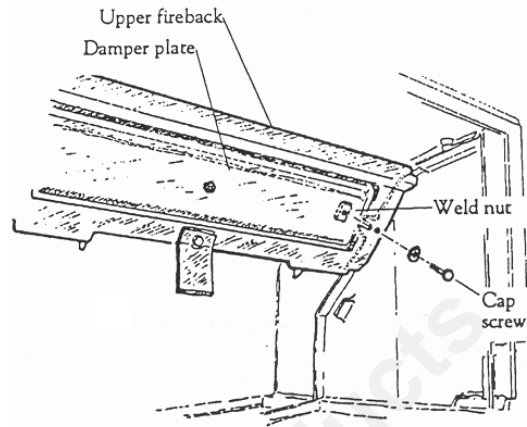
4. **Remove the throat pieces and the lower fireback.** The lower fireback may fall forward when you remove the throat pieces. Hold it in place as you remove the throat pieces. Loosen the 1/4-20 x 1 1/4" hex head cap screw that holds the throat retaining clamp in place if necessary. To remove either throat piece, lift the end of the piece up and pull the end forward. To remove the lower fireback, pull its top forward and lift it out of the firebox. Remove the refractory cover and the catalyst from the old refractory assembly.



Loosen the throat clamp. Remove the throat pieces, and the lower fireback.

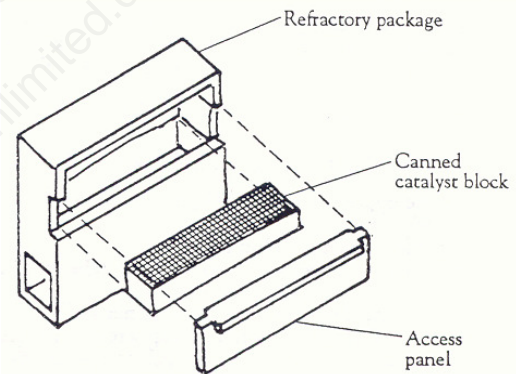
5. Remove the upper fireback and the damper.

The upper fireback and the damper plate can be removed in one piece. Unscrew the two 1/4-20 x 1 1/2" hex head cap screws on the left and right sides of the upper fireback. Make sure you hold the weld nut so it does not fall in behind the lower fireback. Lift the upper fireback and damper assembly out of the stove. Ensure the damper clears the damper actuator lever. The fireback may need to be hit with a mallet to start it dropping out. Remove the old refractory assembly.



Remove the cap screws at either side and lift the upper fireback/damper from the firebox.

6. Assemble the combustion package. Insert the catalyst block with honeycomb vertical into the opening in the front of the refractory package. Be sure the catalyst slides all the way into its recess in the back of the refractory package. Place the access panel against the catalyst block with the lip on top of the panel projecting outward. Push the panel in gently so the right and left edges of the panel are flush with the edges of the refractory package. Tape the access panel in place with masking tape to hold it while installing the upper and lower fireback components.



Insert the catalyst block and install the access panel.

7. Install the refractory package. Thoroughly clean the rear of the stove. The back of the refractory package will be against the inside of the back plate, and the bottom of the package will be resting between the ribs at the back of the bottom plate. Hold the refractory assembly in the proper location and push in lightly to mark where the secondary probe inserts into the rear of the assembly. With a drill of a slightly smaller diameter, hand drill the refractory assembly to accept the probe. Put a small amount of furnace cement on each corner of the bottom of the refractory package. Put the package in place carefully allowing the probe to enter the back of the package through the predrilled hole.

8. Reverse the procedure. Replace the upper fireback assembly, throat hoods and lower fireback. Clean out the groove that accepts the bottom of the lower fireback. Before tightening the upper fireback, ensure the lower fireback forms a seal against the gasket at the lower left and right of the upper fireback.