

# Technical Data Sheet

## Sterling Models 8501, 8520, 8521, 8530, and 8531 Top Casting Replacement

**Date:** 12/31/2002

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### REPLACEMENT PIECES

1 – Top Cast

### TOOLS REQUIRED:

Phillips Screwdriver  
9/16" Wrench or Socket  
Bungee Cord

**BEFORE YOU BEGIN:** Wrap the bungee cord around the body of the stove.

### **INSTRUCTIONS:**

1. Lift and remove the three top stones.
2. Remove the rear top grill on the back of the stove by removing the two 8-32 phillips screws that hold it to the stove.
3. Slightly bend the tabs on the top radiation shield. This will allow the shield to drop down onto the top of the firebox. Pull it through the back of the stove.
4. Lift out the side radiation shields. These side radiation shields will be used as a tool to remove the side stone clips and side stones.
5. Using the side radiation shield, push the top stone clip down below the stone seam. You can now maneuver the top stone out between the corner posts.
6. Using the hook on the bottom of the side radiation shield, pull the stone clips up above the bottom stone. Maneuver the bottom stone so you can pull it out through the corner posts. Repeat steps 5 and 6 on the other side.
7. By gently bending the stone clips, they can be removed.

8. Using a 9/16" wrench or socket, loosen the 3/8" nuts on the four corner tie rods (these rods attach the top to the bottom). Turn the tie rods out of the top casting.
9. Lift off the original top casting and discard.
10. Set the new top casting onto the stove and turn the tie rods into each corner until the rods are flush to the top of the casting.
11. Tighten the 3/8" nuts and snug them to the bottom with the 9/16" wrench.
12. Place one of the bottom side stones into the stove and place it into its final position. Place the top stone in the stove behind the bottom stone. Push both stone clips down on the rods until they are both holding the bottom stone. The upper portion of the top stone clip should be just above the top edge of the installed bottom stone.
13. Place the top stone into its final position on top of the bottom stone. Using the side radiation shield as a tool, push and pull the clips (by hooking them) until they are approximately centered. Repeat steps 12 and 13 on the other side.
14. Hang the side radiation shields from the top casting as originally positioned.
15. Slide the top radiation shield back under the top casting. Bend the tabs so that it can hang from the top.
16. Replace the exterior rear top grill and secure it with the 8-32 screws.
17. Replace the top three stones.