

# Technical Data Sheet

## Castleton 8030 Side Stone Replacement Instructions

### NEEDED FOR REPAIR:

1141-320 Side Stones  
Stove Cement  
5ft. Tadpole Gasket

### TOOLS REQUIRED:

Work Gloves  
Bungee Cord(s)  
5/32" Allen Wrench  
Ratchet with 9/16" Socket  
7/16" Wrench  
Drill with 5/16" Drill Bit  
Rubber Mallet  
Putty Knife  
Caulking Gun  
Utility Knife  
Shop Vac.  
Chisel  
8030 Exploded Parts List

**BEFORE YOU BEGIN:** *Always work on a cool stove.* On top exit configurations, disconnect the stovepipe from the flue collar. Refer to the exploded view of the Castleton 8030 as needed.

### PROCEDURE:

- (1) Wrap a bungee cord tightly around the body of the stove.
- (2) Locate the 3 nuts on the underside of the stove that hold the threaded rod to the top casting (1 in each front corner, 1 in the rear center). Using the 9/16" socket, remove the 3 nuts, leaving the threaded rod in place.
- (3) With a helper, lift the top casting (with top stones in place) straight up. The threaded rods will remain in the top casting, so be sure to lift the top high enough to clear the rods.
- (4) Remove the side legs by lifting them straight up, and off the stove. Take care not to scratch the stones. This only has to be done to the side you are working on.
- (5) Using the 7/16" wrench, and 5/32" Allen wrench, remove the single nut, washer and bolt that hold the side impact plate to the stone wall. Remove impact plate from firebox. This only has to be done to the side you are replacing stones on.
- (6) Remove the tadpole gasket from the perimeter of the top of the stove. This is reusable, but it is recommended to replace it.

- (7) Using a utility knife, score the cement seams of each stone you are removing.
- (8) Using the rubber mallet, gently tap on the stones until you can pull them straight up, and out of the stove. Repeat process until all broken stones have been removed. Retain steel splines for reuse when reassembling.
- (9) Clean all surfaces that have old cement, using a putty knife, or chisel. If you are reusing any stones, clean off any remaining cement and set aside.
- (10) Vacuum any remaining stone dust, ash, debris etc. from firebox side. This will allow new cement to have a clean contact surface.
- (11) Apply a thin bead of fresh stove cement to bottom casting, and up the exposed inner edge of the vertical splines.
- (12) Set the bottom stones in, with a thin bead of stove cement in between them, on the inner edge. Drop in the 2 horizontal steel splines into the slotted area.
- (13) Apply a thin bead of stove cement on the top inner edge of the stones that were just installed. Set the top side stones on the fresh cement, making sure the horizontal splines go into the slotted area of the stone.
- (14) Drop the vertical spline steel down the center slot, making sure it sits flush with the top of the stones.
- (15) Reinstall the side legs; take care not to scratch the stones.
- (16) Using a putty knife, apply a thin layer of cement on the inner joint of the new stones.
- (17) Re-set the tadpole rope around the perimeter of the stove, starting at the flue plate.
- (18) Set the top casting back onto the stove, making sure the tie rods go through the holes in the bottom casting.
- (19) Re-install the lock washers, and nuts onto the threaded rods. Tighten with the 9/16" socket. Tap top casting with rubber mallet as you tighten the nuts, this will get the top to seat correctly.
- (20) Using the 5/16" drill bit, drill through side stones, where all 4 stones meet. Put the bolt with side trim through the new hole in the stone. Re-install the side impact plate, lock washer and nut. Tighten nut with 7/16" wrench, and 5/32" Allen wrench.
- (21) Clean any excess cement from the stove. Re-install stove pipe. Follow break in procedures to cure new cement.