

Technical Data Sheet

Phoenix Stone Replacement

Date: 1/8/2003

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MATERIALS REQUIRED:

¼" rope Gasket
Stove Cement

TOOLS REQUIRED:

7/16" Wrench
3/8" Wrench
Slotted Screwdriver
Rubber Mallet
Bungee Cord
Chisel
Hammer
Putty Knife

PROCEDURE NUMBER ONE: TOP STONE REPLACEMENT:

- 1) Position the slotted screwdriver between the broken top stone and the top casting. Gently pry the stone upward with the screwdriver, taking care not to damage the enameled surface (on enameled models). If the stone releases, go to step 8. If the stone does not release proceed with step 2.
- 2) Wrap a bungee cord or rope around the body of the stove.
- 3) The top casting is held in place by four threaded rods that go from the top casting through the body of the stove, and are fastened with 1/4" nuts underneath the bottom casting. Remove them with a 7/16" wrench or socket.
- 4) Remove the top casting by lifting it straight up until the threaded rods clear the body of the stove.
- 5) Turn the top casting onto its side on a workbench, table, or other smooth surface. Protect an enameled top by first laying down an appliance blanket or cardboard for the top to lie against.

- 6) If the stove has not been used, the cement that seals to stone to the top can be softened by applying water to the under side of the top.
- 7) Using a mallet, rap the exposed stone surface under the top casting until the stone(s) come loose. Carefully remove each stone on an angle as a metal spline is positioned between each stone.
- 8) Reposition the top casting onto the stove and reattach the threaded rod with the four 1/4" nuts.
- 9) Using chisel, putty knife, or slotted screwdriver, chip the old cement out of the top and away from the underside of any stone to be reset.
- 10) Apply a heavy bead of cement to top casting. Set the stone into the top casting. The splines between the stones can be inserted and a small amount of cement should be applied to the underside of the exposed portion of the spline. The next stone can be laid against the first with the cemented spline inserted between them to provide a seal.
- 11) Level and center the stones while the cement is still wet. Remove any cement that may have oozed between the stone and the top casting. A 1/4" rope gasket can be inserted between the stones and top casting if a uniform gap is present in this area. Push the gasket down into position with the slotted screwdriver.
- 2) Allow 24 hours for the cement to dry. Redo the break-in fires as outlined in the Owner's Manual.

PROCEDURE NUMBER TWO: SIDE STONE REPLACEMENT:

- 1) Follow steps 2,3, & 4 of procedure number one to remove the top.
- 2) Carefully set the top casting off to one side while the side stones are repaired.
- 3) Remove the side rib by using a 3/8" wrench or socket.
- 4) Lift the gasket off of the top of the side stone and save for reuse if possible.
- 5) Place the slotted screwdriver between the two top stones and gently tap it with a hammer or mallet until the cement seal breaks apart.
- 6) Lift the upper stones out of the stove. Note that a 1/2" gasket is positioned on the front and back edge of the stones. The gasket should remain in place for reuse. Remove and clean splines for reuse.
- 7) The lower stone can now be removed if necessary. Gently tap the stone with the mallet if it has not released from the channel in the bottom casting.
- 8) Clean the cement from the bottom casting, metal splines, and stones to be reused.

9) Apply a bead of cement to the bottom channel before inserting a stone. Place the stones in the cemented bottom casting. Carefully pack the 1/2" gasket into the slot in the front and back stone. Insert the splines. Apply a small amount of cement to the inside of the exposed splines and position the upper stones above the lower stones. Continue to pack the 1/2" gasket back into the stone slot. Repair the 1/4" rope around the top of the stones.

10) Apply a layer of cement to the inside seams of the stones and seal the stones to the bottom casting with a bead of cement.

11) Reattach the side ribs.

12) Reattach the top as outlined in step number 8 in procedure number 1.

13) Allow 24 hrs for the cement to dry and redo the break-in fires as outlined in the Owner's Manual.