

Technical Data Sheet

Rear Exit to Top Exit Changeover on the Original H-I

Date: 6/22/05

MATERIALS REQUIRED:

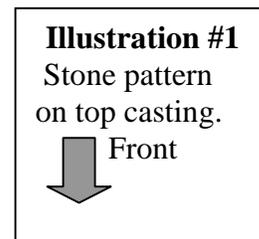
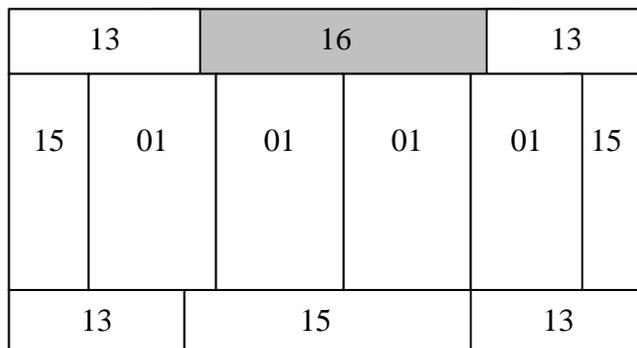
(3) 1101-01 Stones
Stove Cement
Steel Splines

TOOLS REQUIRED:

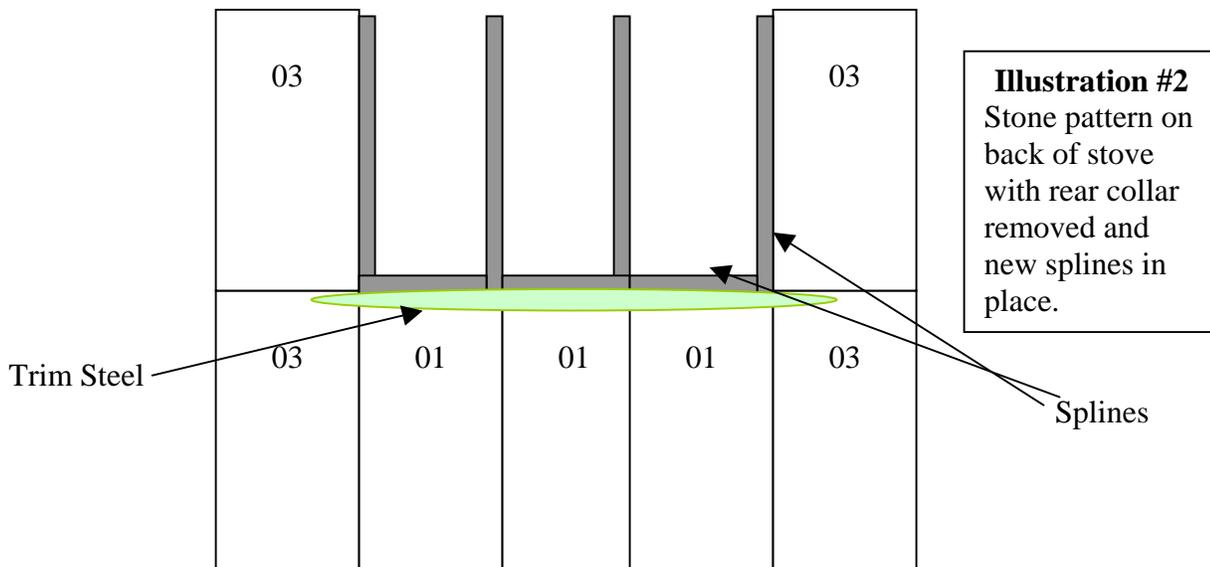
Bungee Cord
Power Drill
Sawhorses
Wrenches: 5/16", 11/32" 3/8", 1/2"
Drill Bits: 1/4", 3/8",
Flat & Phillips Screwdrivers
Wire Brush
Prick Punch
Rubber Mallet & Hammer
Needle Nose Pliers or Vise Grips

PROCEDURE:

- 1) Place the bungee cord around the body of the stove.
- 2) Disconnect the bronze rod from the bi-metallic coil on the top back of the stove.
- 3) Drop the baffle from inside the stove by removing the four nuts on the bottom of the baffle with a 1/2" wrench. Allow the baffle to remain in the bottom of the firebox.
- 4) Loosen the 1/4" bolts that hold the corner post to the bottom of the stove with a 7/16" wrench.
- 5) Remove the eight 12-24 bolts from the top of the corner post with the 3/8" wrench. Save the bolts for reassembly.
- 6) Using the rubber mallet, tap up on the underside of the top casting until the cement seal is broken free and the top of the stove is loose.
- 7) Use a flat screwdriver to pry out & discard the #16 stone on the top casting (see diagram).



- 8) Remove and discard the exposed metal spline with the needle nose pliers.
- 9) With assistance, remove the top casting and carefully place it upside down on the sawhorses.
- 10) To remove the flue collar from the back of the stove, reach into the flue collar with a 7/16" wrench and place it on one of the nuts. Turn one of the nuts off while holding the head of the same bolt with a slotted screwdriver. Repeat on the second nut. Remove the flue collar, keeping it for installation on the top. Remove and discard the flat inner flue plate. Clean out as much of the used stove cement as possible.
- 11) Loosen the nuts on the trim steel / baffle support steel on the back center of the stove with an 11/32" wrench. Remove the two center nuts and bolts from the trim steel / baffle support steel.
- 12) Remove the four stones that surrounded the flue collar (two on the sides and two below). Discard these stones as well as the steel splines.
- 13) Place an 11-1/4" spline in the slot of the #03 Stone (see illustration)



- 14) Place a bead of stove cement on the exposed edge of the left most vertical and horizontal metal splines. Slide one of the new 6" x 12" (#01) stones in place against the left most top stone (#03), making sure the splines are inserted into the slots on the new stone on sides and bottom. Repeat with the other two new stones to complete the back of the stove.
- 15) Using a putty knife, pack a bead of stove cement onto the inside seams of the new stone seams.
- 16) Drill out the two center holes in the trim steel / baffle support steel with the 3/8" drill bit so that the bolts can be inserted through the new stones. Replace the bolts and tighten them with a screwdriver and 11/32" wrench.
- 17) Before replacing the top casting, clean off as much of the cement from the top of the side stone walls as possible with a combination of a wire brush, putty knife, or flat screwdriver and hammer (as a chipping tool).
- 18) With the top casting upside down on the sawhorses, clean out as much of the old stove cement from the channel in the top casting in the same fashion.



- 19) Place a thin, continuous bead of stove cement to the inside top edge of the stone walls on the stove. This should allow any excess cement to ooze into the firebox instead of the outside of the stove.
- 20) With assistance, place the top casting back onto the stove. Maneuver it so that it drops onto the stone walls.
- 21) Use the rubber mallet to tap the top down until the holes line up with the eight holes in the top of the four corner post. Return the eight screws to the top of the corner posts and tighten them with the 3/8" wrench.
- 22) Turn the bolts into the bottom of the corner post and tighten with the 7/16" wrench.

NOTE: Be careful not to over tighten the bolts in both the top and bottom of the corner posts. Snug the bolts and then turn them back ¼ turn. The cast iron can expand slightly when the stove heats up.

- 23) With assistance, you can maneuver the baffle back up and into place in the firebox so that the front two bolts drop into the two holes in the front of the baffle. Turn on the nuts and tighten them with a ½" wrench.

NOTE: Once the stove is in place, it will not be necessary for the two back hanger bolts to be inserted and secured to the baffle. The baffle support steel and front bolts will provide more than adequate support.

- 24) Clean any excess cement from the flue collar and open area (from the removal of the #16 stone) in the top cast before installing the flue collar.
- 25) Place the flue collar onto the stove and bolt it to the top casting. Depending on the age of the stove, the flue collar holes in the top may be pre-existing or they may need to be drilled out. If they need to be drilled out, place the flue collar on the top and mark the holes for drilling. Tap with the prick punch and drill out the holes with a ¼" bit.
- 26) With the flue collar in place on the stove, drop the two bolts into the collar holes and through the top casting. Reach in through the collar to turn on the nuts and tighten them with a 7/16" wrench while holding the top of the bolts with a screwdriver.
- 27) Seal the inside edges flue collar with a generous amount of the stove cement.
- 28) Remove the bungee cord.
- 29) Install the bi-metallic coil and bronze rod for the primary air control.
- 30) Allow the cement to set up for 24 – 48 hours before firing the stove.
- 31) Make sure a ¾" layer of sand or ash is present in the bottom casting before firing the stove.
- 32) Do one or more break-in fires as described in the owner's manual before burning high temp fires.