

**CRESS ELEMENT REPLACEMENT
INSTRUCTIONS
C-100-6 and C104H**

1. Unplug furnace, close door and wire door in a closed position so it does not spring open. Carefully place the furnace on its back while holding the door closed.
2. Remove metal bottom cover and plastic feet.
3. Locate element ends which go through porcelain insulators. Remove nut, bolt, washers and wiring from both element ends after labeling wiring for use later.
4. Do one of the following: Cut off looped element ends at the porcelain insulator or straighten looped ends with needle nose pliers. (Unwind the loop).
5. Carefully place the furnace in an upright position while holding the door closed so it does not accidentally spring open.
6. Locate and remove element staples ("U" shaped wire pins). Staples are spaced every 3" to 5". Pull out element ends from floor of furnace and remove old element. Notice that the "U" pins are stapled into kiln wall at a 45° angle to the wall's surface. This helps hold the element securely in place.
7. Check and clean grooves of any left-over staples. Clean grooves with a flat screwdriver blade. Remove dust and loose particles with a vacuum cleaner.
8. Secure one end of the element to a hook or nail in a doorway or wall. With pliers slightly pinch the first coil loop.
9. Take hold of opposite end of element and walk out away from wall to stretch element holding element parallel to the floor.
10. Insert new porcelain rods. Note that the C-100-6 uses 15 rods and the C-104H uses 14 rods. Stretch the element to accommodate all rods, and no longer.
11. Pinch the last coil loop half closed so porcelain rods will be contained.
12. Remove element from wall hook and squarely cut off loops at each end.
13. Install one end of the element through floor and bend 90° where the coil starts. Feed element into groove working towards the rear of the furnace. Break rods as you turn to the next groove.
14. Continue until the element reaches the top rear of the chamber. Take approximately 2 1/2" to 3" of the element and stretch it the length of the back wall. This section of element should have no rods.
15. Work back on the opposite side in reverse manner. Bend end 90 and push through floor. Secure element to kiln wall by using staples supplied. Staples will need to be compressed to fit into grooves. Install staples approximately every 3" to 5"
16. Close door and carefully place furnace on its back. Cut off element 1 1/2" from porcelain insulator. Form loop with needle nose pliers and reconnect wires, nut, bolt and washers, Make sure connections are tight.
17. Check with ohm meter for any shorts to metal casing.
18. Replace metal bottom and plastic feet .
19. Vacuum chamber to remove all brick dust and chips.