



Primary Air Thermostat Replacement 2N1 Replacement Instructions For Wood Stove Models Encore 2040 & Defiant 1975

These instructions are to be used if replacing the primary air thermostat for the Encore 2N1 or Defiant 2N1 wood stoves.

Tools required: Phillips Screwdriver, $\frac{7}{16}$ " socket driver; $\frac{3}{16}$ " Allen key, $\frac{1}{8}$ " Allen key.

Parts required: Primary Air Thermostat.

CAUTION: Allow the unit to completely cool down before beginning the procedure.

Procedure

1. Locate the two hex head bolts holding the primary air manifold in the right and left ends. Remove the bolts with a $\frac{7}{16}$ " socket and slide



- the manifold down and out of the opening.
2. Remove the right interior side brick held in by a bracket on the top of the brick. Take out the hex head bolt and remove the bracket and slide the brick out. See photo in next column.



3. Remove the right air manifold held on by two $\frac{1}{4}$ -20 x $1\frac{1}{2}$ " hex head cap screws in the top and bottom of the manifold. The right air manifold is just inside the door opening on the right side. See below showing removal after the bolts have been taken out.



4. Remove the primary air control thermostat assembly. With an $\frac{1}{8}$ " Allen key wrench, back off the screw and slide the primary air control handle assembly off the shaft of the thermostat assembly.



5. Slide the primary air thermostat assembly out of the right side and lay it down on the bottom of the stove connected to the cable. Be careful not to lose the spring and washer.
6. **Slide** the looped thermostat cable out of the loop in the old primary air assembly wireform. If necessary, gently pry the wire loop open to allow the wire to come out. Slide the thermostat wire loop into the wire loop on the new handle. Squeeze the loop closed.



7. Slide the washer then the compression spring onto the new thermostat stem in that order. Slide the stem into the opening in the right side making sure the wire form on the thermostat assembly is pointing toward the front of the stove. See the photo below.



8. Install the thermostat assembly handle. Adjust the handle so it is pointing down to the ground (half open).

9. Notice the indent, stop and hole on the inside of the right air plate for guiding the primary air assembly and preventing over rotation. See photo below.



10. Install the right air plate. Check the gasket on the back of the air plate and replace if damaged before installing. At this time, test the thermostat assembly to make sure when it is rotated to the fully closed position (pointing back), the air valve in the bottom is just closed. If not, loosen or tighten the set screw on the air valve and adjust the door so that it is just closed in the thermostat fully closed position.
11. Replace the side brick.