



## Replacing the Thermocouple in a Propane Heater

### **P12000**

1. Remove the brass knob on the gas control by loosening with 5/64<sup>th</sup> Allan key
2. Undo the brass nut around the gas knob with a 13/16<sup>th</sup> wrench.
3. Undo the screws (x4) holding on the control panel and the nameplate panel as well as the 2 screws holding the bottom panel on. Remove the name plate panel.
4. Remove the bottom panel and unclip the 2 wires from the thermocouple as well as the power wire from the switch (middle) and the fan wire from the speed control (top)
5. Undo the two nuts holding the propane assembly to the unit and pull free
6. Unscrew the thermocouple from the bottom of the valve and remove.
7. Loosen the top nut of the thermocouple then undo the bottom nut on the underside of the panel while pulling the thermocouple head free from the metal plate. Remove the two nuts completely from the thermocouple and keep them.
8. Unclip the both sides of the wire from the new thermocouple. This wire is not necessary for the P12000.
9. Thread one of the nuts from the old thermocouple onto the new one until there are no more threads visible.
10. Place the thermocouple through the hole and thread the nut on from the other side. When the thermocouple is in place the tip should rest just above the slot on the left hand side of the burner.
11. Bend the thermocouple around without kinking it until you can thread it into the bottom on the valve. (See old thermocouple for example)
12. Re-assemble heater following steps 1-5 in reverse order.

## **P9000**

1. Remove the brass knob on the gas control by loosening with 5/64<sup>th</sup> Allan key
2. Undo the brass nut around the gas knob with a 13/16<sup>th</sup> wrench.
3. Remove the 8 screws from the sides of the unit
4. Remove the bottom and top panels.
5. Remove the shroud from the main unit. Door must be unlatched to accomplish this. You may have to detach the fan wire from the speed control.
6. Unscrew the 2 sheet metal screws holding the thermocouple bracket into the unit – located just below the door
7. Undo the thermocouple from the bottom of the gas valve. Use an 8mm wrench.
8. Place the new thermocouple and bracket into the hole and screw back in with 2 sheet metal screws. Ensure that the tip of the probe is in the cut out in the burner.
9. Bend the thermocouple over to the bottom of the gas valve and screw in tight. Make sure not to kink the thermocouple line.
10. Reattach the shroud to the unit following steps 1 through 5 in reverse order

\*\*\*\*NOTE\*\*\*\*

The older model heaters do not have the hole required for the thermocouple to be placed in with the bracket. In this case remove the bracket on the thermocouple and follow the following steps

- 5a) Undo the top baffle inside the firebox with a 5/16<sup>th</sup> socket
- 5b) Undo the mid plate inside the firebox by unscrewing the 4 screws (2 on either side)
- 5c) Undo the burner cover by unscrewing the 2 screws holding it in and the 2 nuts underneath the lip in the front and remove.
- 5d) Undo the nut holding the thermocouple on the inside of the unit and remove from the unit.