

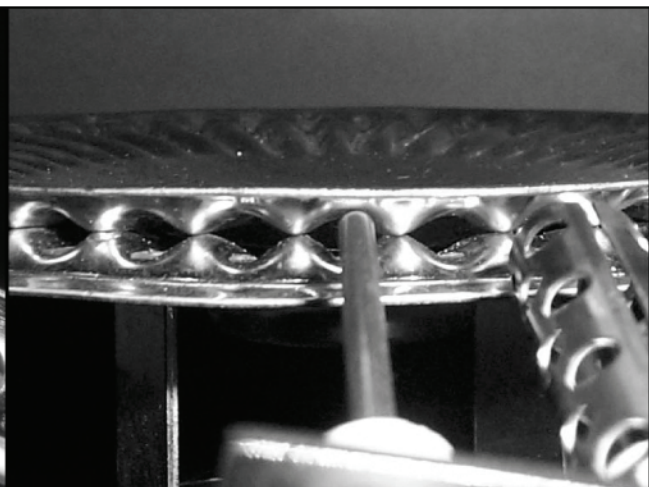
## STEP 11 – IGNITER ASSEMBLY CHECK

Unplug water heater power cord from wall outlet, turn the on/off switch to the “off” position. Close the supply gas valve to heater, disconnect the C2 plug on the SmartValve. Remove the burner assembly from the heater.

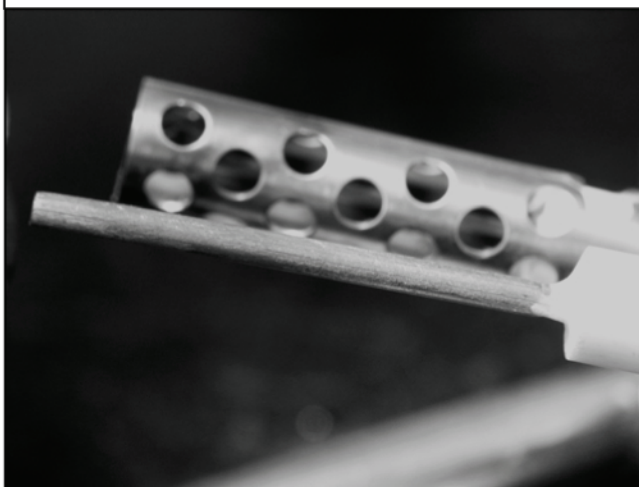
**STEP 11** With the burner removed; inspect and adjust the Flame Sensing Rod or replace the Igniter assembly as directed below. Making any one of these four adjustments along with correcting reversed polarity and grounding problems (Steps 1 - 5) may correct a short cycling Burner problem. **The Flame Sense Rod shown below is on a propane model; natural gas models will have a 90° angle bend at the end of the rod as shown in the drawings on pages 11, 14, and 15.**



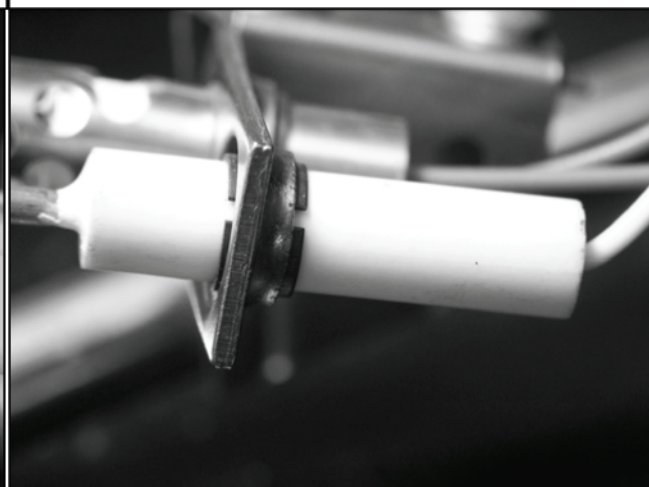
**11A** check the gap between the Flame Sense Rod and the edge of the burner, it should be  $7/64$ " to  $1/4$ ". A nickel will work to set a  $7/64$ " gap, carefully bend the bracket to adjust the gap.



**11B** check the positioning of the Flame Sense Rod in relation to the Burner, the rod must be positioned directly in front of one of the Burner ports, carefully bend the bracket to adjust.



**11C** inspect the Flame Sense Rod for any signs of rust or corrosion, this can cause a short cycling Burner. Clean the Flame Sense Rod with a piece of steel wool or Emory cloth.



**11D** inspect the porcelain insulator on the Flame Sense Rod and the wires to the assembly; if the insulator has any cracks or the wires are damaged or worn – replace the igniter assembly.