



# Maxon Burner

## Flame Rod & Spark Igniter Positioning

**Warning:** Make sure the electrical power is turned off, gas is turned off and the unit is locked out before working on the equipment.

Correct installation of the flame rod and igniter are necessary for reliable lighting of the APX burner. This photo shows the flame rod and igniter on the right side of the APX burner Pilot end plate. The Quartz tubes are inside the plate by about 1/8".



If you are replacing existing flame rod or igniter mark the old quartz tube or measure from the end of the quartz to burner plug door and install the new items to the same measurement.



At equipment start up of during a maintenance PM the flame rod and igniter can be seen from the before catalyst area, look above the air deflector plates to the right side. With the air deflector plates removed you will be able to access the flame rod and igniter. Insert the flame rod and igniter (igniter is closest to the burner face) through the knurled nut making sure the O-ring is in place, push igniter and flame rod in far enough that the quartz is exposed. Leave the knurled nuts loose for now. From inside the oxidizer push the flame rod and igniter outward so that the quartz is inside the tube about 1/8".



After adjustments are made and the flame rod and igniter are correctly set tighten the locking nuts making sure the O-rings are installed. Measure from the burner plug surface to the end of the quartz tubes and record this measurement on the plug door surface and on data sheets for future replacement settings.

Another method of setting the flame rod and igniter is to use a wire with a 1/4" 90 degree bend on the end and sliding it through the flame rod tube and hooking it inside the pilot end plate.



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Mark the wire from the outside of the burner at the knurled nuts. Remove the wire from the tube and hook the bend on the inside end of the quartz tube of the flame rod and igniter and transfer the mark to the flame rod and igniter. Set the flame rod and igniter out 1/8" to 1/4" from this mark. Measure from the outside end of the quartz tube to the burner plug and record distance on the burner plug door and data sheets.

