# The “AUDIO ARC”

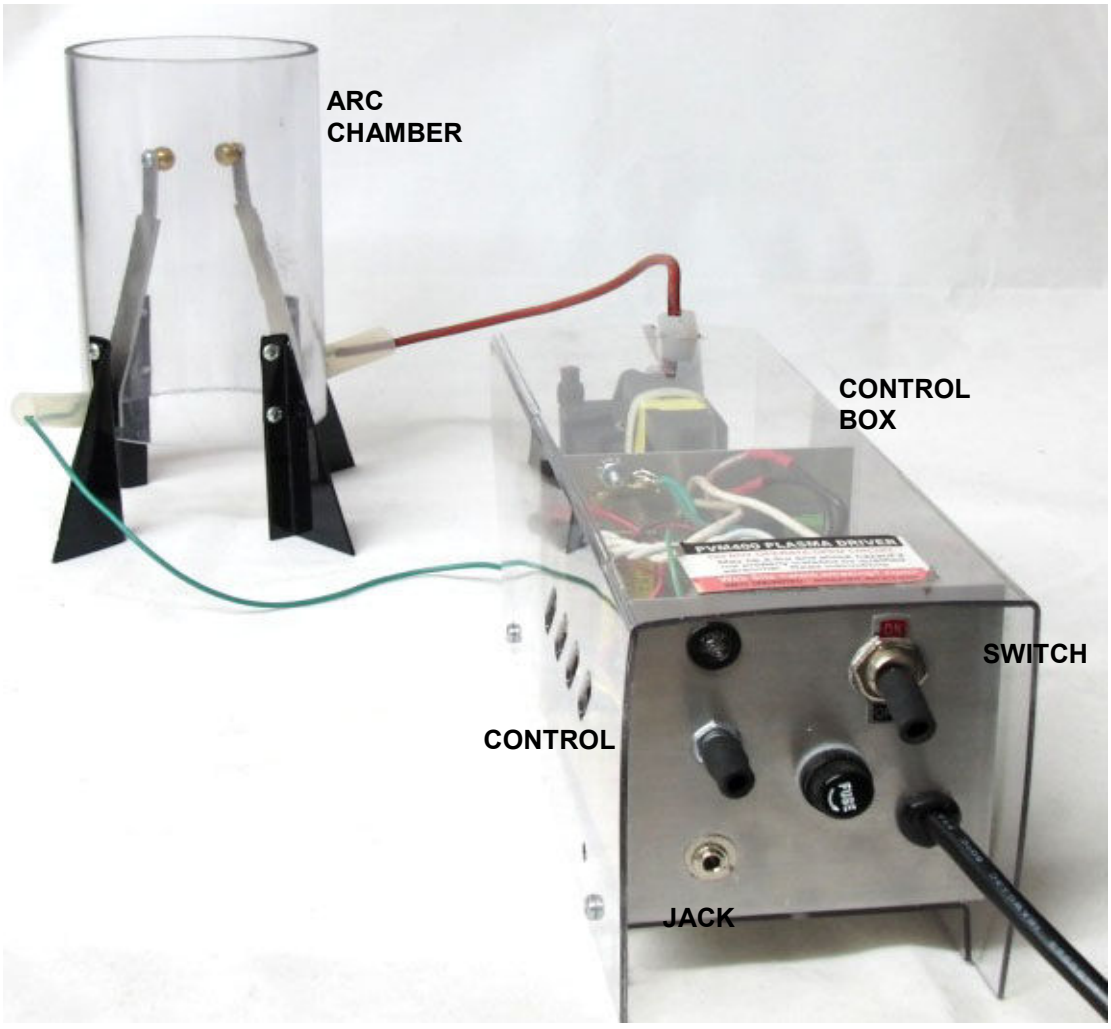
## Talking and Singing Electric Plasma Arc Instructions 811

CAUTION Improper contact may cause a dangerous shock.  Contact with the arc in the chamber can produce a painful

Circuitry operates from direct 115 Vac.  Arc is not electrically dangerous but can cause burns if contacted.  It is an excellent project for the more advanced experimenter who desires to build and demonstrate an amazing and winning science project.

Simply connect to the headphone/output jack of any small radio and the sound will be created by the electrical arc in the special included acoustical chamber. There is no conventional speaker involved; the sound is created by the oscillating electric spark, which in turn vibrates the surrounding air to create sound. It’s a truly magical experience to see and hear music (or any sound you put through this device) created by pure electricity.

This project will fascinate those who just do not believe that the electrical arc is actually producing this clear and crisp tone,and frustrate them as they try to explain where it’s coming from!



# INSTRUCTIONS

***CAUTION Improper contact may cause a dangerous shock. Contact with the arc in the chamber can produce a painful burn a shock***

1.Tune in a radio to a desired FM radio station. You may use an IPOD, CD PLAYER, HOME STEREO or any audio source. Set volume to mid range

2. Plug 1/8" patch cord from your intended audio source into the mating ***jack*** on the front panel of the ***control box***. This must mute any sound coming from your audio source or you may not hear the plasma arc producing the sounds.

*3. Turn on power via ***switch*** on the front panel of the control box. Arc should start between the two brass balls in the ***arc chamber***

4. Adjust the ***control*** on front panel for clearest sound coming from the arc.

5. Most of the time the sound volume can be adjusted from the audio source and the clarity from the adjustment ***control*** on the panel of the ***control box***.

Note it may take playing around with the two controls for the best effect

*Note if arc does not start, you can turn up audio source volume and back it off when arc starts. You may also try and bridge the arc gap with a well insulated screw driver or similar.

Do not operate unattended.