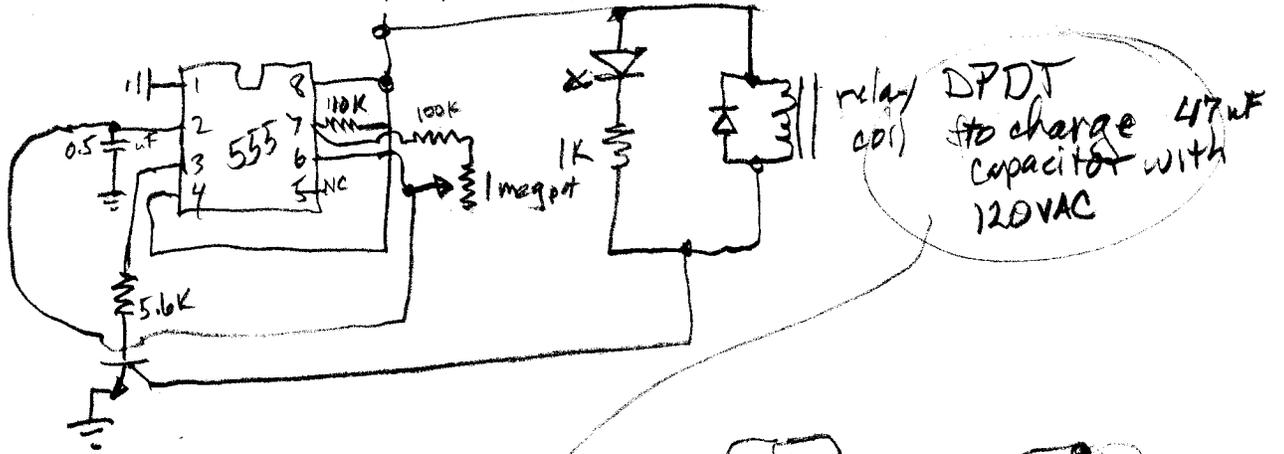
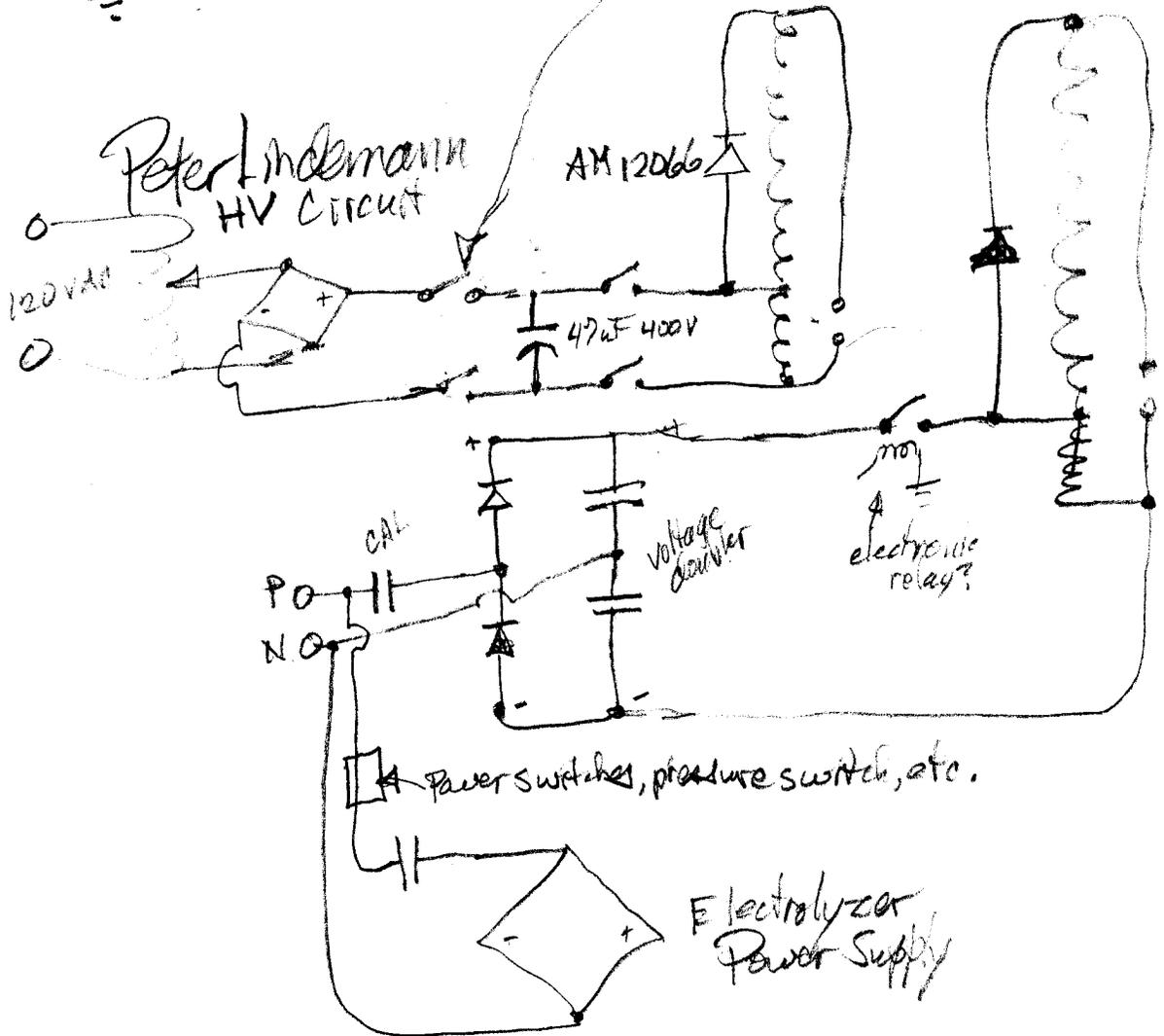


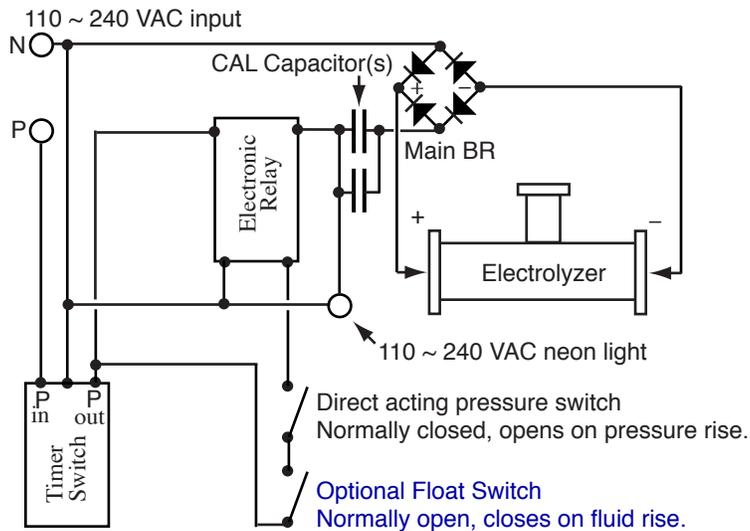
Timer + low voltage Plasma Spark
 Peter Hindemann circuit



Peter Hindemann HV circuit



© Eagle-Research, 2003-2012
 Simplest ER50 WaterTorch Pressure Control Circuit (AC powered).
 (options are shown in blue)



Direct acting pressure switch and CAL capacitors have specifications appropriate to the electrolyzer (see Resources).

An optional float switch, to shut off power when low liquid level, can be added to this circuit; for float switch specifications see Resources.

This simple circuit is unique because it uses **120 VAC to signal it** (instead of DC).

For this electronic relay, I recommend the Opto 22 #120A10

You may want to mount this relay on a heat sink, using heat sink paste.

ALL my other circuits use a relay signaled by DC because I like to have other options/features that are easiest/simplest to control with low voltage DC.

If you think you might eventually like to have other features, like status indicating LEDs and alarms for low liquid level and high temperature and/or automatic water fill, etc. then I'd recommend using the DC version of this simplest circuit.

YES, all of my 'control' circuits (including this one) are compatible with the main circuit 'CAL efficiency upgrade' option.