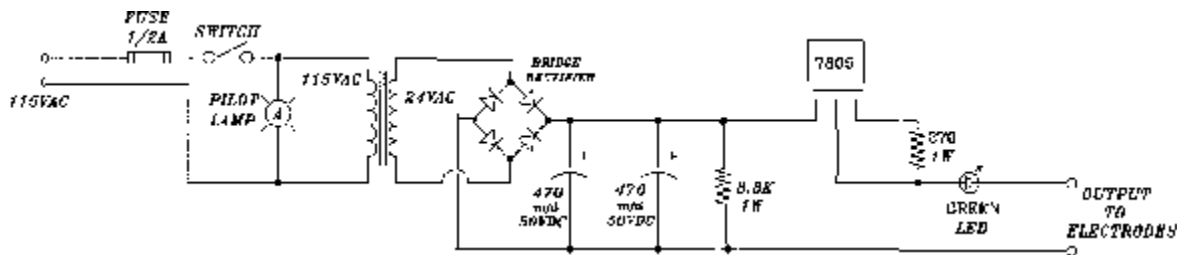


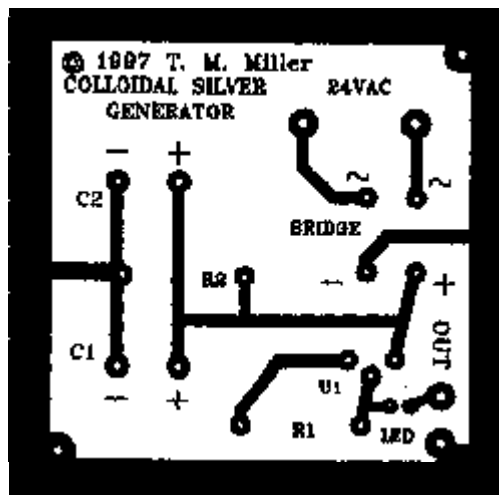
Plan 8

Do-It-Yourself Colloidal Silver Generator

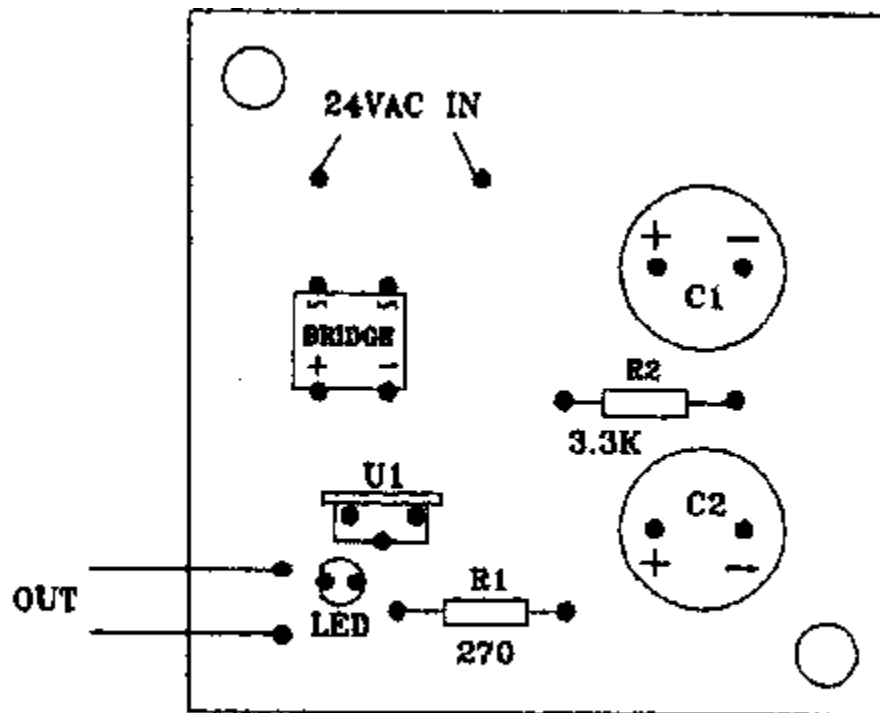
The COLLOIDAL SILVER GENERATOR is a simple circuit. It starts with a standard transformer, bridge rectifier and filter capacitors to transform the 115 volt AC power into 30 volts DC. This voltage feeds a common 7805 regulator, which is wired as a CONSTANT-CURRENT regulator. In this configuration, it does NOT act as a voltage regulator, but rather the output voltage will adjust itself to whatever is required to limit the output current to a preset level. In this case, the 270 ohm resistor limits the current to around 20 milliamps, even into a dead short. This prevents the current from increasing as the conductivity of the water increases. Here's the schematic diagram:



The assembled Colloidal Silver Generators I build use a slightly different board, since I use a special PC-mounted transformer and fuse clips to eliminate much of the point-to-point wiring. The board below is the pattern I published in the article in 73 Magazine, and has the advantage of using parts available at Radio Shack. It's also useable with any transformer with 24 volts output, so you can use it in areas that do not have 115 volts AC as the standard.



The circuit board is single-sided and quite simple. Since your monitor may not display it at the correct size, the original board measures 1.900" across. Of course, there's no reason why you couldn't wire it point-to-point on a small piece of perf-board, but using the printed circuit board will eliminate any wiring mistakes and is also faster.

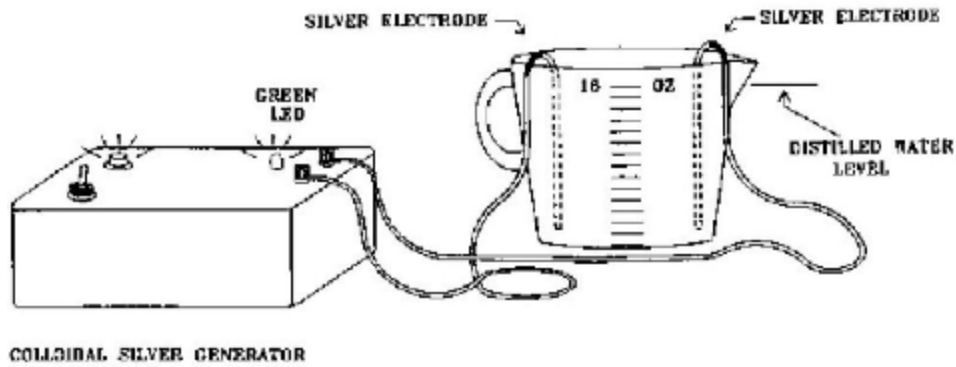


PARTS LAYOUT

Here's a drawing of the non-foil side of the board showing the parts location. Note the orientation of the LED, the electrolytic capacitors, the bridge rectifier and the 7805 regulator. These devices will be damaged if you install them backwards!

Using the Colloidal Silver Generator is easy. Pour 8 ounces of pure, distilled water into a glass measuring cup. Hook the electrodes over the side of the cup so that they are submerged, but DO NOT let the connection to the leads (covered with shrink tubing) touch the water.

Turn the power to the Colloidal Silver Generator on. The green LED may light very slightly. Add the very tiniest amount of pure salt that you can sprinkle between your fingers... just a few grains. Stir the water with a PLASTIC spoon. As the salt dissolves, the conductivity of the water will increase, causing the green LED to light brightly. Let the generator run for around 10 minutes.



After the batch of colloidal silver is done, store it in a dark brown glass bottle. A "Mrs. Butterworth's" syrup bottle is perfect. Keep it in a dark, cool (but not cold) place.

After each use, one electrode will show some dark oxide. Use a small piece of Scotch-Brite to gently clean the electrode. Don't rub too hard, or you will wear off more silver in cleaning than you use in the process.

