CHAPTER 3
Capacitor Discharge Drilling Machine and Dielectric Tester

These full-color high-resolution photos and schematics go with the book *Electronic Gadgets for the Evil Genius (Second Edition)*, and may provide clarity or details beyond what the book itself contains, if needed. This device, and its parts/components, may be available at [www.amazing1.com](http://www.amazing1.com)

Figure 3-1: Assembled Plasma Driller
Figure 3-2: Base and Brackets Fabrication

Figure 3-3: PBK50
Figure 3-4: Bottom and Top of PBK50 Enclosure

Figure 3-5: Alternate Tube-Style PBK50 Enclosure
PBK50M Module Schematic

Note that Q1 may require a heatsink if battery voltage exceeds 9 volts.

6-12 VDC INPUT

Note: If unit fails to oscillate, reverse connections 2 and 6 on T1.

Vcc COMMON

Output polarity may be reversed by simply reversing all diodes D1 thru 12.

Waveshape at point A collector of Q1

Battery or other 12V 0.3A power source

Transformer T1 Pin-Out

Pin 6 has HV sec return combined with normal feedback winding.

Figure 3-6: PBK50 Layout

Figure 3-7: PBK50 Board Wiring