

**SIMPLE PULSED IGNITION COIL CIRCUIT *
FOR THE PRODUCTION OF HIGH-VOLTAGES**

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An inexpensive, simple, but reliable high-voltage circuit utilizing a car ignition coil may be constructed using the following figures.

The diagram of Figure 1 shows a solid-state pulse circuit for energizing an induction coil. The circuit is taken from an article which appeared in Electronic Engineering, (October 1976, Page 17), and has been slightly modified. A description of how the circuit functions can be found in the article mentioned.

In realizing construction do not use an electrolytic capacitor for C2 since it is not suitable for energy storage purposes. Also for safety reasons, it is recommended the use of R2 and a neon bulb to indicate when the circuit is "live"..

An interesting application of the HV circuit is the creation of a "plasma-display". Simply mount a large diameter, clear glass incandescent light bulb on an insulative support and connect the HV source to the bulb's electrical terminal.

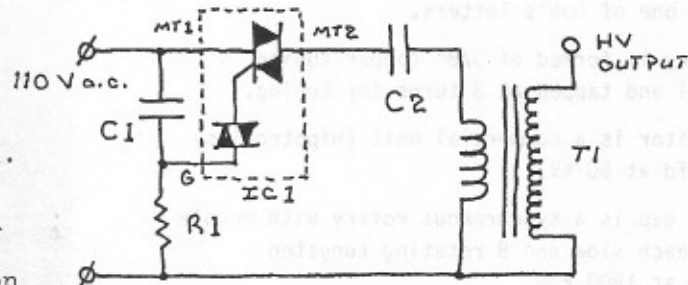
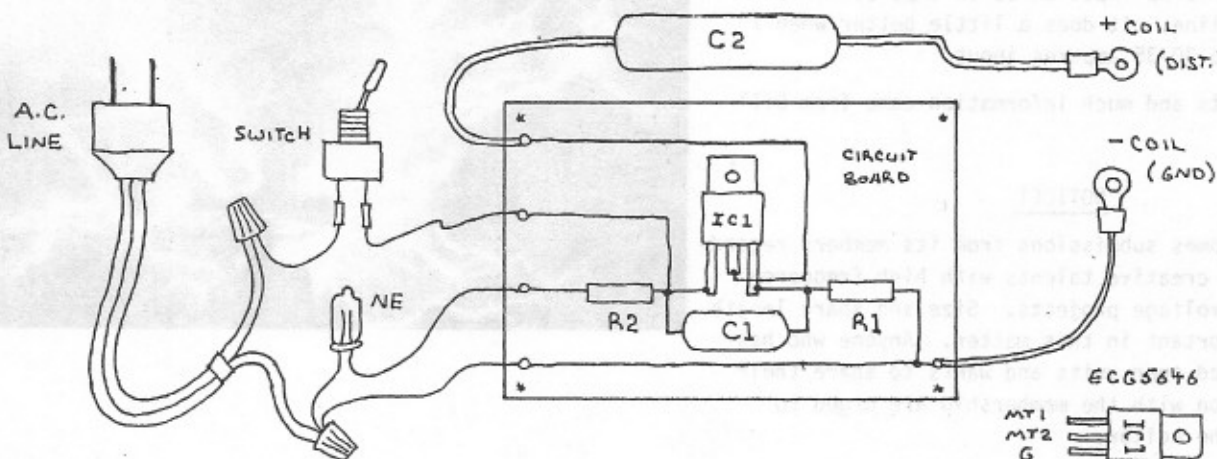


Figure 1

PARTS LIST

- IC1 - ECG5646
(Traic with internal trigger diac package)
- T1 - 12 V Ignition Coil
- C1 - 0.02 μ F, 400 V
- R1 - 390 K Ω , $\frac{1}{2}$ W
- C2 - 0.2 μ F, 600 V
- NE - neon bulb, $\frac{1}{2}$ W
- requires R2 - 22 K Ω
 $\frac{1}{2}$ W
- Component perfboard
(circuit board)
- Radio Shack #276-149



*printed as received