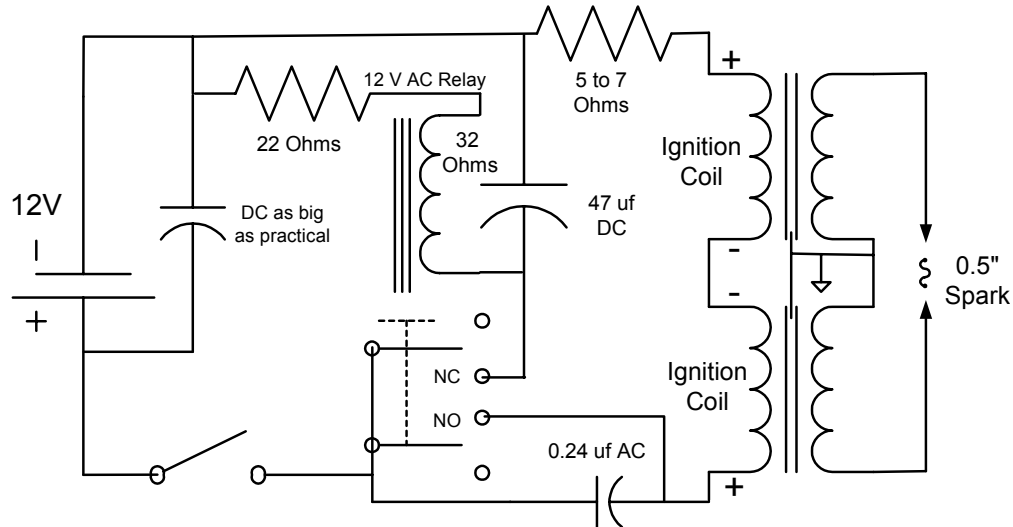


## How to build a Spark Coil using car parts and a 12 volt DC battery.

In a primitive situation, this kind of spark coil arrangement can be used to create ozone to purify water or electrify a wire or fence to protect an area from small animals.

Two ignition coils can be used with the primaries connected in series from a 12 volt car's ignition system.



12 V AC Relay and 2 Car 12 volt Ignition Coils produce up to 0.5" spark at about 1 Amp input Current.

The DC electrolytic capacitor across the battery is not needed for large batteries but works a bit better with one of some value. The value of the capacitance across the relay determines the frequency of on and off. The best size to use will depend on the relay found. Do some trial and error to find the best one to use. The relay needs to be a double pole double thorough. "NO" stands for normally off when no current is flowing. "NC" stands for normally connected when no current is flowing. The small AC capacitor is taken from a car that has points. The file wall resistor to the coil can be used for the 5 to 7 ohm resistor or something equivalent. Plumbers strap and a couple of bolts were used to hold them together. See the following picture:

