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[DIY Homemade Ignition Coil Driver - RMCybernetics](#)

[Simple Ignition Coil Driver Project](#) Here's a no-frills ignition coil driver project based on a simple MOSFET circuit. A design spreadsheet is included if you'd like to modify it for your own purposes. Schematics, PCB layouts, and a parts list are also included.

An Ignition Coil is an induction coil that converts voltage from a car battery (12V) into the high-voltage sparks (several kV) required by the spark plugs in a car engine.

[A simple guide to your car's ignition coil pack | Haynes ...](#)

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Insert the brass rod in the PVC cap and press the cap over the coil's high voltage center post. Make sure the brass rod is in good contact with the bottom contact. Screw the threaded rod into the aluminum spacer. Fit a brass cotter pin to the top of the brass rod and the threaded rod.

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devices that comprise of two wire-coils wrapped around a metal core.

To achieve such a huge surge in voltage, the ignition systems in all cars, except diesel-powered models, use an ignition coil consisting of two coils of wire wrapped around an iron core, known as the primary winding and the secondary winding. The ignition coil acts as an electrical power transformer.

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~~Ignition Coils and Drivers—My Electric Engine~~

A Simple design based on a 555 to Drive a Car Ignition Coil. Definitely Makes a STRONG HV Output from a Car Coil. However, because it is a Continuous HV Pulse Output, This is the OLDER Type of Car Coil that MUST be used for this Project. "DO NOT ATTEMPT TO USE THIS FOR AN ELECTRIC FENCE!" THIS CAN KILL PEOPLE AND ANIMALS!

~~ignition coil driver—YouTube~~

This simple circuit is one among commonly used ignition coil drivers. Ignition coils are a kind of high voltage flyback transformers used in automobile ignition systems. Much like HV flyback transformers in cathode ray tube screens, they are driven by voltage pulses provided from a DC power supply which is interrupted by a single switch.

From my recollection, it delivers a nastier spark than the legendary Ford Model T ignition coil. The circuit uses an inverted 555 oscillator that is coupled to an ON Semiconductor BU323Z Darlington transistor (350V, 10A) that drives a conventional inductive discharge ignition coil. In this topology, the inductive discharge voltage developed across the transformer primary is multiplied by the turns ration (factor of 100) to easily deliver a 25kV voltage to the spark gap.

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