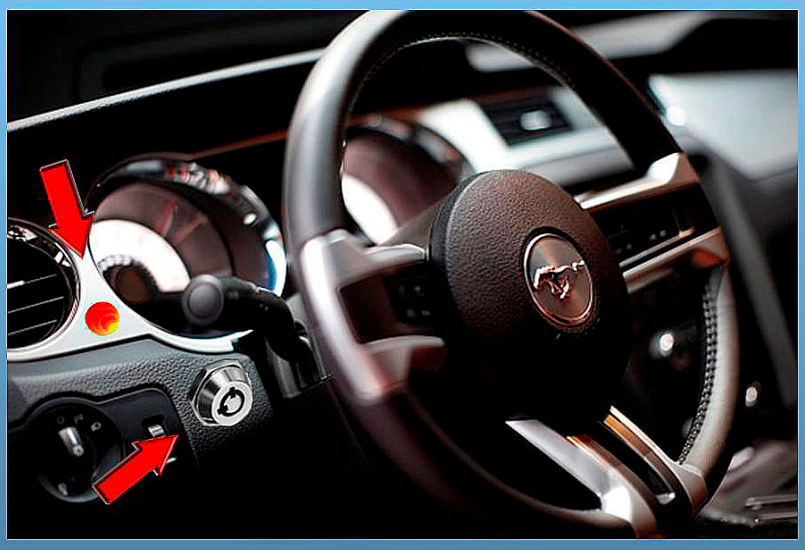
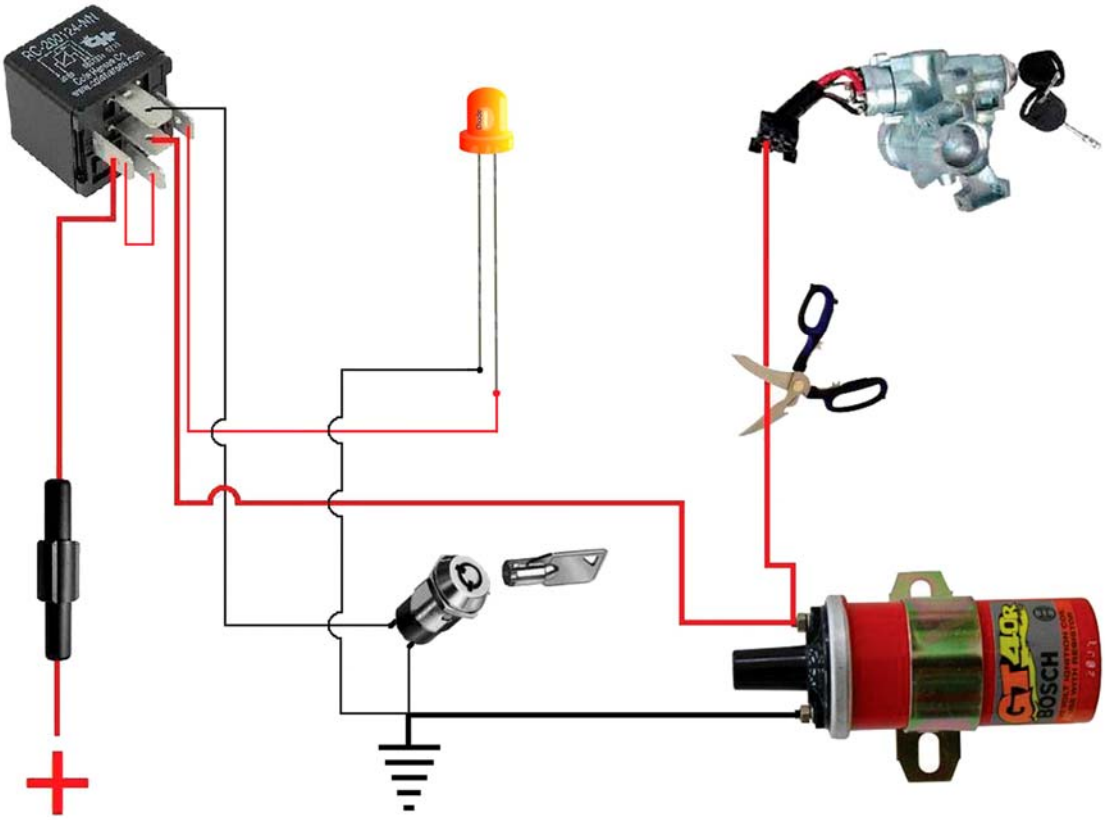
Protect your Car/Bike additionally from theft



Make your Car/Bike much safer from theft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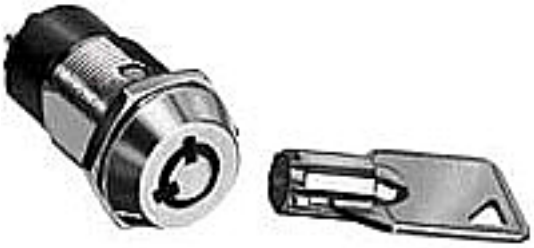


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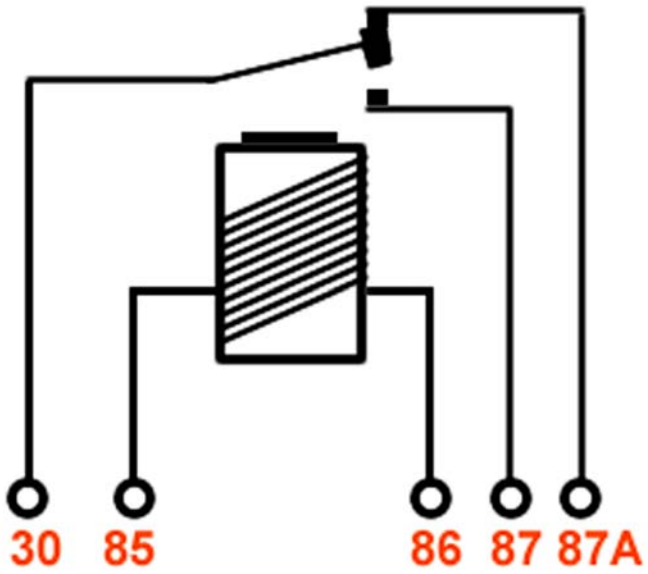
Diode


30
85
86
87
87A

Material required:

1. **Electric lock with cylindrical key used on safes. It has to be with two slots (there are with one), otherwise the key will not come out of lock in both positions ON/OF.**
2. **Relay 30 Amperes with 5 terminals (30, 85, 86, 87 and 87A)**
3. **Diode light (LED) 12V**
4. **Fuse with housing 10-20 Amperes (two types shown below)**
5. **Wire and connectors shown below**

Installation instructions:

Now when we have obtained all necessary material, we can proceed with components connections. Let's start with the relay. Placing it somewhere under the bonnet or under the dash board, we can drag the wires towards the other components. Let's start with mark 30 on the relay. On that terminal we can bring permanent current from battery or fuse box. For this connection we use a thicker red wire and inserting a fuse in between. If we drag power from the fuse box, it must be permanent power and heavy supplier (thick wire). Constant power means that the wire is live when the ignition is completely switched off. Terminals 30 and 85 have to be bridged with thinner red wire. Terminal 87A is connected with thinner wire to LED positive, which is always longer wire sticking out from LED (Light Emitting Diode). With thinner black wire we connect negative LED terminal (shorter wire on diode) to any metal part of the engine or the vehicle body. Now we continue with the thick red wire which has to supply current from terminal 87 to positive terminal of engine component we are blocking/activating, in this case the high voltage coil. Before connecting new source of power (in this case to ignition coil), disconnect and insulate original positive wire.

Until now everything is connected except electric lock. Thinner black wire connects one lock terminal to the ground, and the other lock terminal is connected to terminal marked 86 on the relay. If we have connected everything properly, the circuit must operate. Setting the key on the lock to ON position, LED will light up and the thicker red wire that we connected to the coil will have broken circuit disabling engine to start, regardless of proper display indicator lightings on the dash board. Setting the lock key to the OF position, LED is turned off and the red wire on ignition coil is energized, allowing the engine to start. Any position on the lock is good enough to be ON or OF, so do not worry how you have connected terminals on the lock.

Design and sketches by R. Marin.