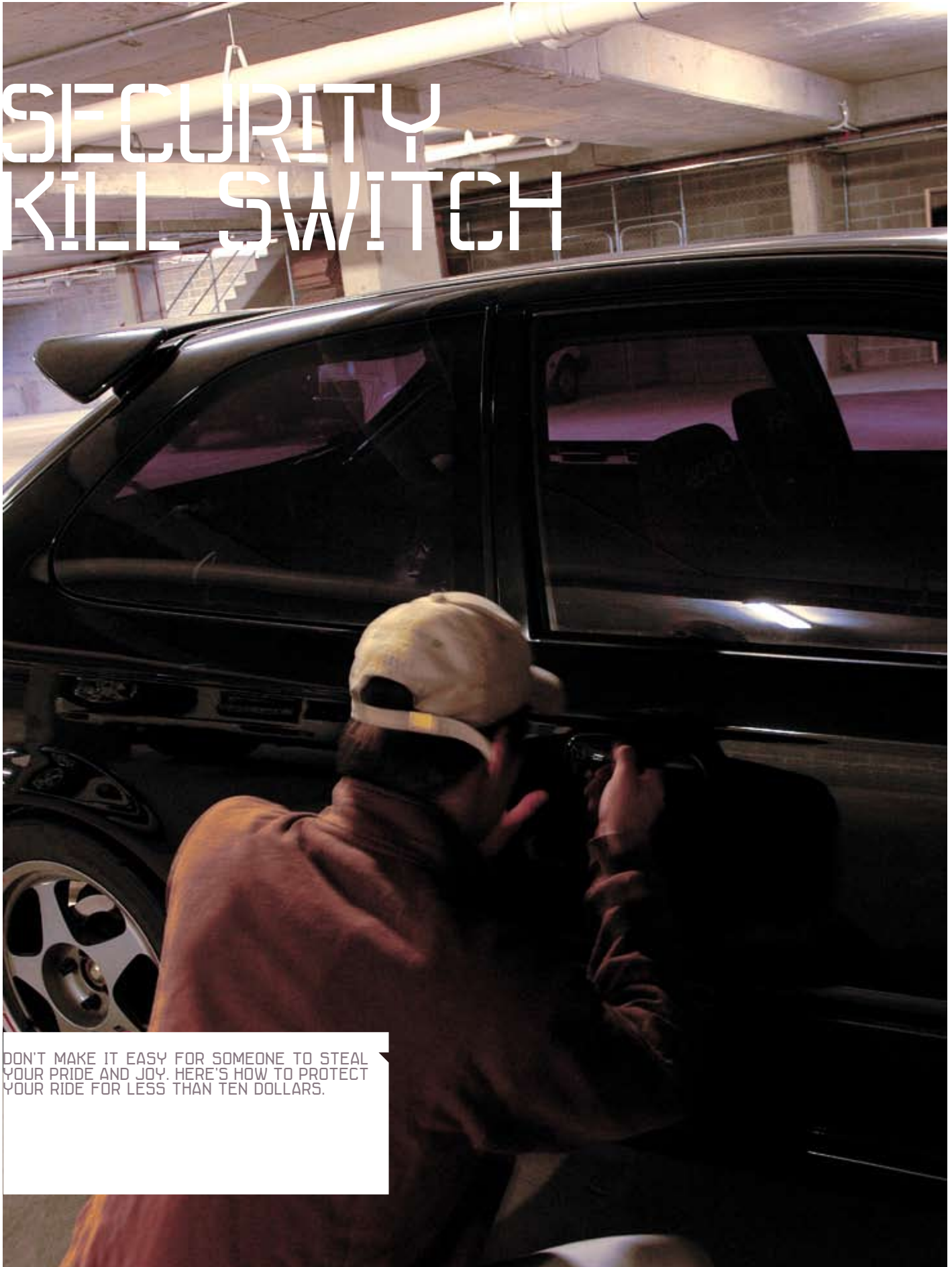


# SECURITY KILL SWITCH



DON'T MAKE IT EASY FOR SOMEONE TO STEAL YOUR PRIDE AND JOY. HERE'S HOW TO PROTECT YOUR RIDE FOR LESS THAN TEN DOLLARS.

**SOME OF YOU MAY REMEMBER** a kill switch that we showed you how to make in issue 16. For those of you who may not have seen that story, we detailed how to protect your car with a coil disabling switch and relay. That switch needed to be activated with a magnet in order for your car to start and provided a cheap way to protect your car against would-be thieves. This issue we will be making a similar switch, however without the magnetic-activated reed switch.

What we will show you how to make is much simpler to construct, but can be just as effective in protecting your ride against thieves. When fitted it means that you will need to flick two separate switches in order for your car to start. The circuit simply cuts out the power being fed to a relay mounted inline with an ignition wire from your ECU, so that if the switches are not activated your car will not be able to start. You can mount the two switches in two different and out-of-reach locations so that they can be easily accessed by you, but still hidden out of the way.

We have chosen to de-activate the ignition wire coming out of the ECU in this case, so that any would be thief that may try to steal your car will find that although the engine actually turns over under the power of the starter motor, the car will not actually start. This is a good thing to do since any ruthless thief trying to start the car will think that the car must be either out of fuel, or just broken down. Of course, a switch like this is not completely theft proof, but giving any thief that extra bit of work to do could mean the difference between still having your car in the driveway after someone has attempted to make off with it and paying a hefty insurance excess.

**STEP 1**

Prepare the switch's wiring loom. Solder one pole of the first switch to a pole of the second switch, leaving enough wiring so that they are far enough apart to mount in the desired locations.

**STEP 2**

Take two more pieces of wire, about two metres long each and solder each of these to the remaining two poles on the switches.

**STEP 3**

Solder the relay inline with one of the wires coming from the switches with about a meter of length between it and the switches. Solder the sections of the wire to the trigger poles of the relay.

**STEP 4**

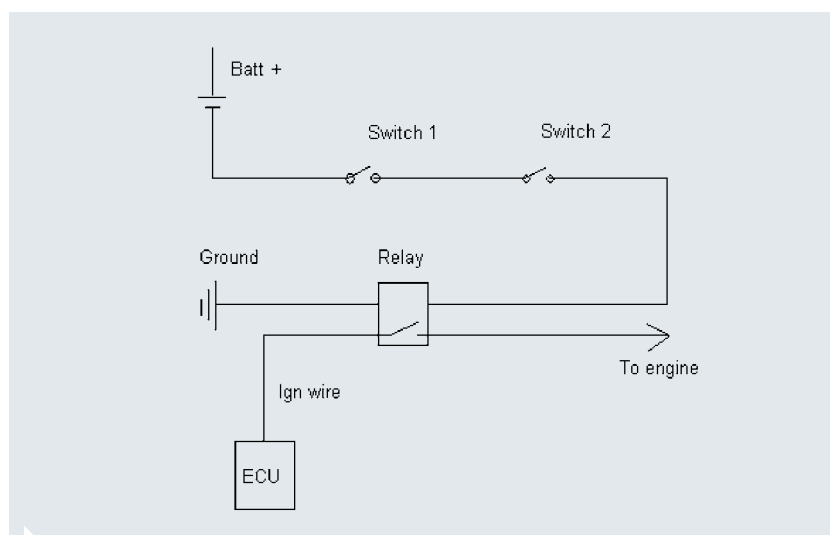
Locate two separate points within your car that you can mount the two switches. This should be out of sight and with no access to the back of the switches. Secure the switches in place.

**STEP 5**

Run one wire up to the car's positive power wire, which can be found at the back of the head unit, and the other to a clean ground point. Tape any excess wire up under the dash and out of sight.

**STEP 6**

With help of a pin out diagram for your ECU locate the ignition wire, cut it, solder a piece of wire to each end and run these up to the relay. Solder one wire to the first switch pole and the second to the remaining switch pole of the relay.

**ASSESSMENT**

A kill switch such as this can be fitted super cheaply and adds an extra layer of protection to your ride. Basically for a thief to get around something like this they need to remove the trim pieces, locate the wiring loom for the switches and determine how to bypass it. When you are trying to steal a car as quickly as possible, an extra hassle such as a couple of kill switches would be a good reason to give up, and try another easier target.

**WHAT YOU NEED**

Soldering iron and solder  
Wire strippers/cutters  
Phillips head screw driver  
Test light or Multimeter  
1 12V relay  
6m thin gauge automotive cable  
Heatshrink to fit wires listed above  
2 On/OFF toggle switches

**QUICK CONTACT**

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