store and they all ran less than 140 mA coil current. Diode D2 is there to protect the output transistor from voltage spikes created by the magnetic field in the relay coil collapsing, and may be placed directly

across the relay coil. In practice, connect the positive lead of the timer to a circuit in the car that comes on only when the ignition is on, and ground the negative lead. I chose the power to the

car's stereo radio. After the delay time, pin 3

of the 555 timer will go high turning on the

Table 1 -**Timing Resistor and Capacitor Values for About 6 Second Delay** $R_A(k\Omega)$ $C_A(\mu F)$ 470 220 100 120 240 560 1200

delay on is required.

NPN transistor and sourcing the current to pull in the relay. I mounted the relay under the hood in a convenient spot near the battery so I can supply the radio directly from

there. As soon as the ignition

is turned off, power to the

timer and relay are removed.

I have had one of these

in my car for several years and have never had a problem with my radio. The timer can be adapted to any use where a simple

shutting off the radio.

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