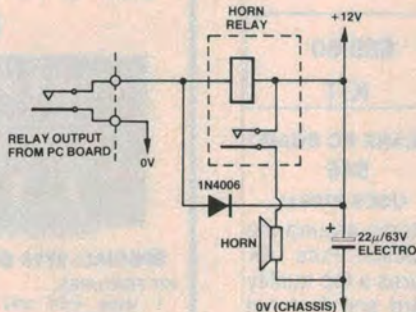


ETI-084 car alarm mods

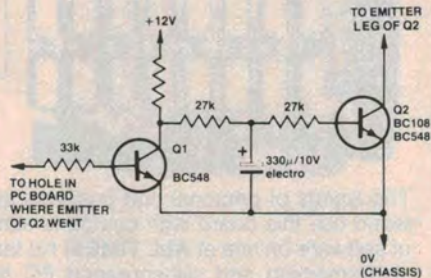
A number of readers, including the **Service Manager at Dick Smith Electronics, Gary Crapp**, have sent along suggested modifications for this alarm, which was published in our 'Project Electronics' book and has been quite a popular kit.

The principal problem observed was that the alarm would reset itself after tripping and operating the vehicle's horn. There are several suggested methods of curing this. Gary Crapp suggests linking pin 4 and pin 8 on each 555 (IC1 and IC2), adding a 100nF capacitor between pin 5 of IC1 and the +12V rail and adding a 1000 uF capacitor across C1. **Geoff Sinclair of Williamtown, NSW**, cured it by adding a 25 uF capacitor from pin 5 of IC2 to the 0V rail and adding a 4u7 capacitor from pin 2 of IC1 to the 0V rail. He also in-



creased the value of C3 to 25 uF.

Rodney Hunt of Oyster Bay, NSW, cured the resetting problem by adding a horn relay (which helps the project's on-board relay to survive longer) and a 22 uF capacitor in the circuit shown here. He also replaced C3 with a 100 uF capacitor (giving an exit delay of seven seconds). By increasing C4 to 22 uF, Rodney also increased the reset time to almost two minutes.



Entry delay can be provided in several ways, but that suggested by Rodney Hunt is the simplest we've seen. The second circuit here shows how it's done. The emitter leg of Q2 on the pc board is lifted and this circuit inserted between that leg and the hole it went into (to pin 3 of IC1). This provides an entry delay of around seven seconds. Rodney constructed the circuit addition on a piece of tagboard.