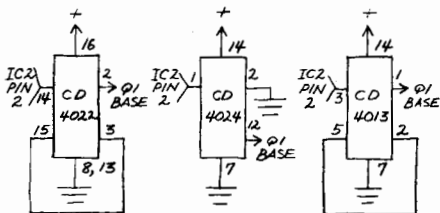## ...TO "READER CIRCUIT"

Many thanks for publishing my circuit for the calculation/stopwatch adapter in the April 1977 Solid State column. I note, however, that I omitted the connection from pin 13 of *IC2* to ground. This connection must be made to enable the chip. Also, the debounce circuitry in some calculators apparently does not respond properly to the commands given at the 10-Hz rate. The solution to this is to put another divider into the circuit so that the switch operates at a 5-Hz rate. Some circuits that can be used to accomplish this are shown below. Using these circuits, it may be

necessary to experiment with the value of *C4*, which determines the time the switch remains closed; I found 0.033 μF to work best on one of my slow calculators. With the slower rate, naturally, the calculator should be keyed ., 2, +, but the rest of the operation is the same.
—*Will Hobbs, Eugene, OR*