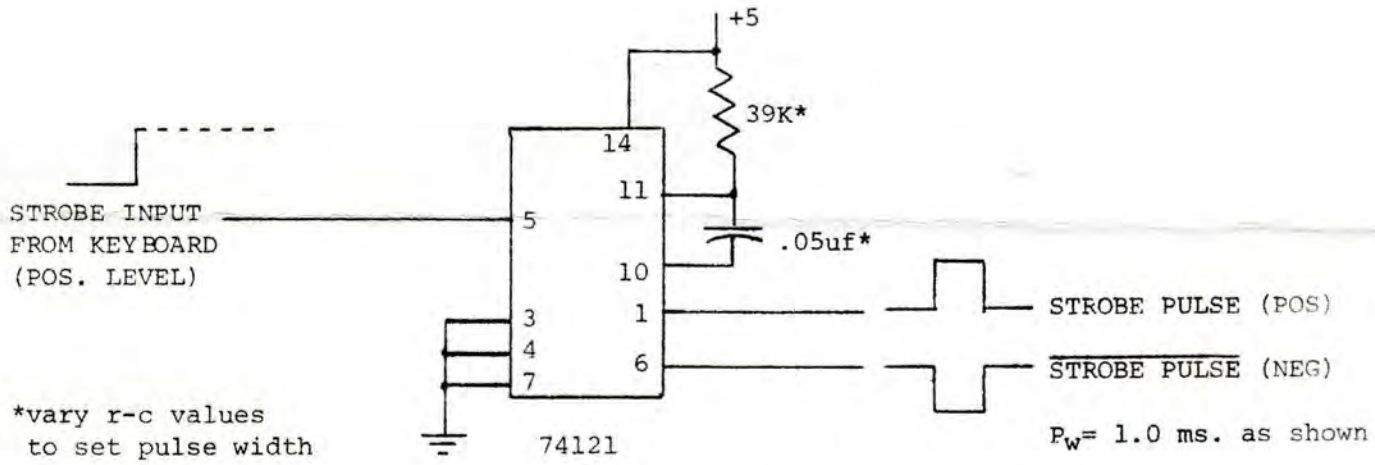
NO. 100
DATE: 12-18-77

KEYBOARD APPLICATION NOTE
SUBJECT: USING GRI KEYBOARDS WITH DIGITAL GROUP SYSTEMS

GRI Keyboards offer a lower-cost alternative to the premium keyboard sold by the Digital Group. Our Model 753 can be used with minor modification, and our 756 interfaces directly with DG system. (In fact, you see it in their catalog, and in that of sister company, Peripheral Vision).

The Digital Group input board requires 7 bits of ASCII data, and a positive going, 1MS. strobe. To interface a GRI Keyboard, wire the data inputs 1-7 to bit 1-7 from the keyboard (use B6A for both upper and lower-case). Connect the +5, -12, and ground leads to the proper terminals on the D.G. power supply. (All regulation is done by the system, no other components are needed.) Jumper the keyboard for positive logic operation (tie data-strobe invert to ground).

756 user need only connect their positive strobe pulse to bit 8 of the DG input part to complete the job. 753 owners must add a 1-shot as shown below.



753 users may want to wire up the user-defined keys to the encoder for ASCII codes, (connect to pins 27 and 37 for " ", to pins 31 and 34 for "@"). Or you can wire one up in parallel with the front panel reset switch for keyboard control of the reset function.

Since the DG keyboard routine is a loop, it is necessary for the strobe to be a pulse, and no problems have been observed with a 1 MS pulse width. No software "bugs" exist, although full 128 character ASCII (provided by the 756) is most convenient.

Sincerely,

Robert Nickels
Keyboard Product Manager

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