

CORCOMP TRIPLE TECH MODIFICATION PROJECT

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SOUTHWEST NINETY-NINERS

The CORCOMP TRIPLE TECH CARD comes WITHOUT a LED on the front of the card like the other cards for the TI EXPANSION BOX. This project consists of TWO DIFFERENT modifications. The first installs a LED that will light whenever the "CLOCK" portion of the card is accessed. The second installs a TRI-COLOR LED instead that will light one color whenever the "CLOCK" portion of the card is accessed and will light a second color whenever there is DATA in the "BUFFER" portion of the card.

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CAUTION: THIS MODIFICATION IS SOLEY UNDERTAKEN AT YOUR OWN RISK AND MAY VOID YOUR CORCOMP WARRANTY.

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The first modification is quite simple ~~as~~ CORCOMP made provisions for a LED on the ~~TRIPLE-TECH~~ card but never utilized it. On the very early versions of the card a LED was installed but was disabled. This was because the LED was apparently mounted in the wrong location on the card and would not line up with the PLEXIGLASS WINDOW of the TI EXPANSION box. The LED was therefore disabled by burning it out. To restore its operation install a new LED in place of the old one and bend its leads so that the LED lines up with the PLEXIGLASS WINDOW. On later versions of the card NO LED has been installed but the provisions for one are still there.

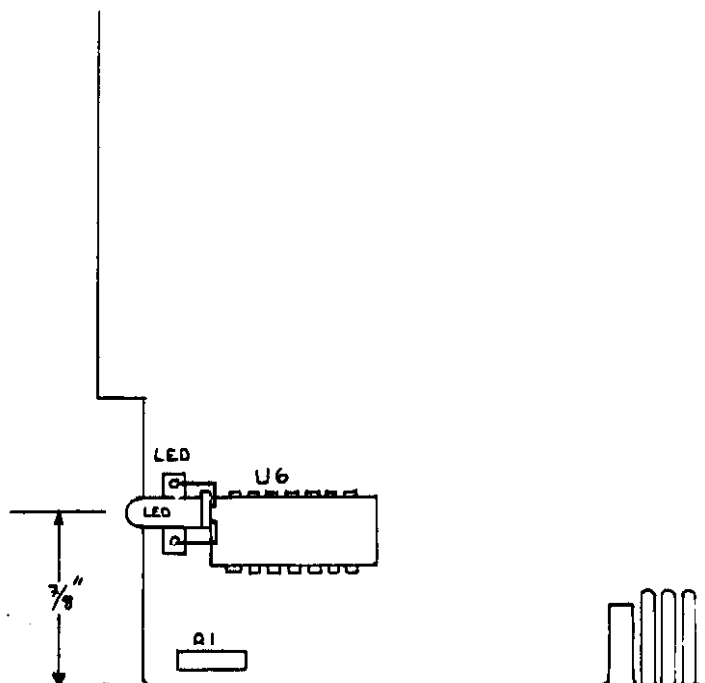
1. Install a 100 OHM RESISTOR in the location marked "R1" at the BOTTOM LEFT CORNER of the card. (With the components UP - edge connector at the bottom)

2. Install a LED in the position marked "LED" next to U6. CATHODE end (flat side or short lead) in the lower

hole.

NOTE: For proper alignment with the PLEXIGLASS WINDOW the LED should be positioned in line with U6 with the base of the LED butted up against the end of U6. Do not short any pins!

This LED will light momentarily whenever the "CLOCK" portion of the card is accessed.



The second (ALTERNATE) modification adds a TRI-COLOR LED that lights one color when the "CLOCK" portion of the card is accessed and lights a second color when there is DATA in the "BUFFER" portion of the card.

1. Install a 100 OHM RESISTOR at the location marked "R1" at the BOTTOM LEFT CORNER of the card

2. Install a NAND GATE (74LS00) PIGGYBACKED on top of U6. Connect PINS 7 AND 14 to the CORRESPONDING pins below. BEND PINS 1 THRU 6 and PINS 8 THRU 13 outward.

3. Install a TRI-COLOR LED (RADIO SHACK # 276-035) at the location marked "LED" next to U6 by connecting

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ONE LEAD to the LOWER CONNECTION POINT and connecting the OTHER LEAD to PIN 11 of the new NAND GATE.

4. Install a 2.7 K OHM RESISTOR between PIN 12 and PIN 7 of the new NAND GATE.

5. Install a 2.7 K OHM RESISTOR between PIN 13 and PIN 14 of the new NAND GATE.

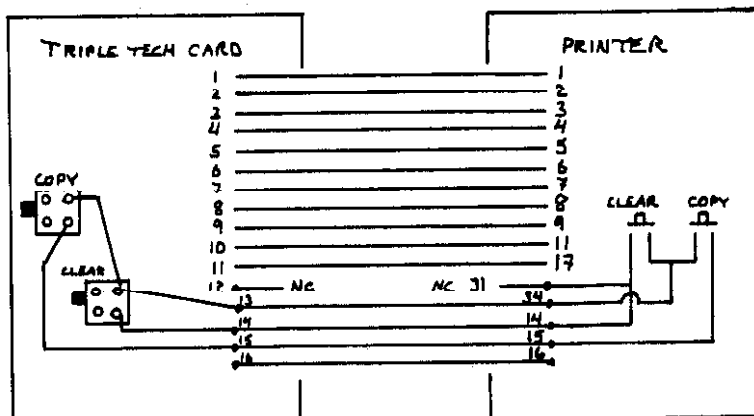
6. Install a 1N34A DIODE, connecting the CATHODE (BANDED END) to PIN 12 of the new NAND GATE.

7. Connect a 7 INCH LONG JUMPER WIRE from the DIODE'S ANODE LEAD to the SOLDER PAD directly above the LETTERS "U25" at the RIGHT HAND SIDE of the card.

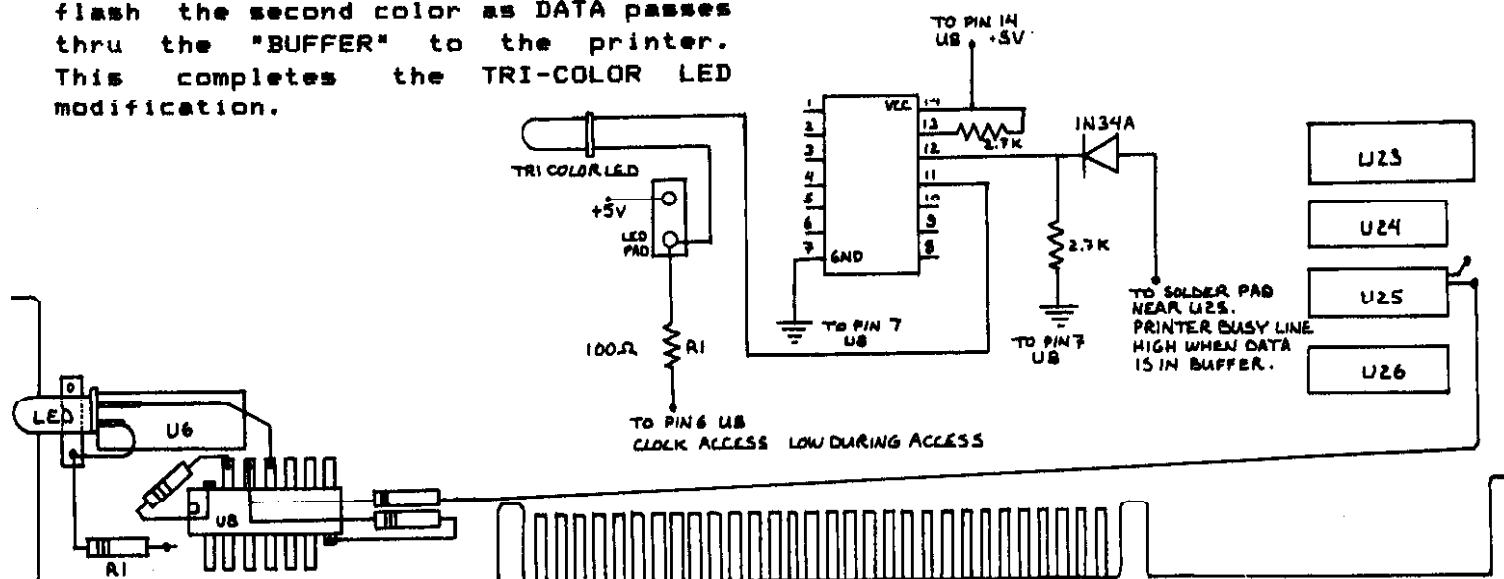
NOTE: THIS SOLDER PAD IS CONNECTED TO THE BUSY LINE TO THE PRINTER.

PINS 1 THRU 6 and PINS 8 THRU 10 of the ADDED NAND GATE are not used and are left NOT connected.

This LED will momentarily light one color whenever the "CLOCK" portion of the card is accessed and will light a second color whenever there is DATA in the "BUFFER" portion of the card or flash the second color as DATA passes thru the "BUFFER" to the printer. This completes the TRI-COLOR LED modification.



For those who wish to have REMOTE "COPY" and "CLEAR" buttons for the TRIPLE TECH here is a new approach. Pins 13, 14, and 15 of the printer jack of the TRIPLE TECH card are not used by the card. By connecting these three pins to the "COPY" and "CLEAR" switches on the card the REMOTE switches can be mounted on the PRINTER ITSELF! Pick up these three lines thru three UNUSED pins on your printer's PIO jack and run them to two REMOTE switches you install on the printer. (PINS 14, 15, 34, 35, and 36 are UNUSED on STAR MICRONICS SG10 printers) Check your manual!



THE DIODE AND RESISTOR MAY BE MOUNTED ON TOP OF U8.

Questions concerning these modifications should be sent to: SOUTHWEST 99ER'S, P.O. BOX 17831, TUCSON AZ 85730 ATTN: EDWARD HALLETT, V.P.