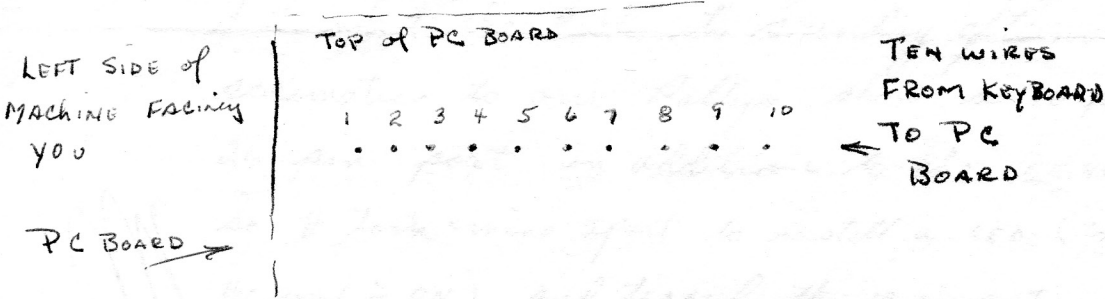


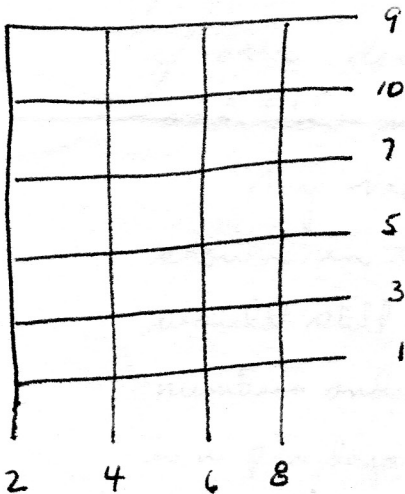
July 23, 1979

Bob, Mulholland

The 10 WIRE keyboard is arranged like this:



KEYBOARD MATRIX:



Shorting # 1 with # 2, 4, 6, OR 8 PERFORMS SHIFT

Shorting other combinations give letter, number, words

EXAMPLE:

1/# 4 = SHIFT TO RED LETTERS

THEN 6/10 = LETTER H

4/10 BY THEMSELVES = 8

C. Mulholland
 Rt. 4 Box 424 H
 No Wilkesboro, NC
 28659

Walt

July 1 1979



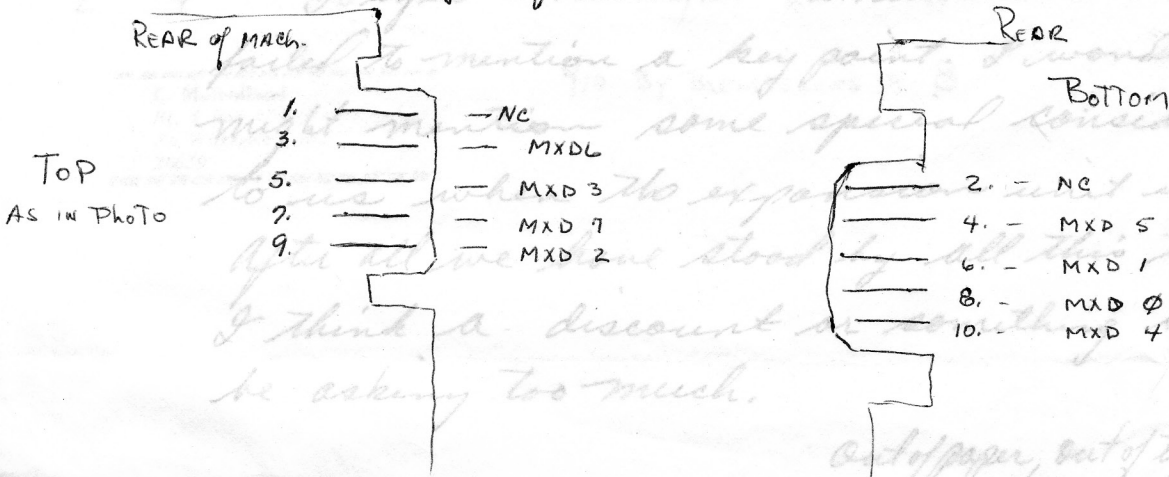
The service manual refers to this data as Bob.
MUXD0 - MUXD7 of the I/O chip.

I may be re-hashing old information, but what the heck it's Sunday afternoon. The schematics to our Ballys show a 10 pin and 26 pin part in addition to the 1EE488 part.

M

So, I took mine apart to install a LED (to show the kids when the unit is ON) and traced the 10 pin part. It appears to me that part is a 8 bit parallel part, the 26 pin part is RAM access. I know we talked about these parts as test ports during production, but I wonder if our designer types might brew up a memory addition with them.

My machine did not have the 26 pin part as shown in the photo on page 14 of service manual. This would still be only a small inconvenience because the pin numbers and functions are shown on the schematic. Below is a pin layout of the 10 pin part:



Out of paper, out of time, out of ideas.
Best wishes, Walt

July 23, 1979

July 1, 1979

Bob,

The service manual refers to this data as
MUXD0 - MUXD7 of the I/O chip, pg 12.

like this Has anyone used a light pen? If so what
kind, ect.

I ran across a source of short tape cassettes
that might be of use. The tapes are 10 min tapes,
5 on each side and best of all the cases are put
together with screws, so you could replace
the tape or any other part. They are used and
out of 15, only one was unusable.

Contact: B+F ENTERPRISES
119 FOSTER ST
PEABODY, MA. 01960

617 531 5774

AMEX, VISA, Mastercard

STOCK NO 9M10015 15 For \$5.00

OR yes, I put the "ON" LED across C10 with a 4700Ω 1/4 resistor to limit
current to approx 2.5 ma. observe polarity of LED

I typed a letter to Mr Nieman as suggested, but
failed to mention a key point. I wonder if you
might mention some special consideration
to us when the expansion unit is available.

After all we have stood by all this time, so
I think a discount or something would not
be asking too much.

Out of paper, out of time, out of ideas.

Best wishes, Ed Mulligan