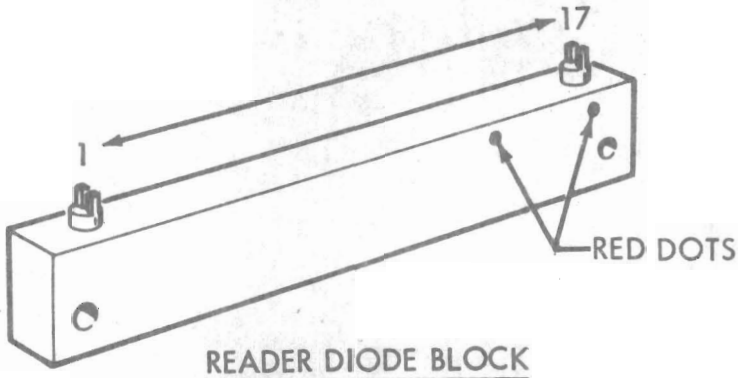
DIODE BLOCK RESISTANCE MEASUREMENTS

The following resistance measurements of the Reader and Punch diode blocks are to be used as a guide to check both the resistance of the coils and the condition of the diodes. Two resistance readings are given for each diode terminal as the ohmmeter current will cause the diodes to conduct or not to conduct depending on the selection of the ohmmeter leads. Different ranges of an ohmmeter or a different model ohmmeter will usually give different values of resistance for a conducting diode under test. The resistance of a conducting diode may vary from 15 ohms to 900 ohms depending on the ohmmeter and resistance range used. The "R x 10" range of a Triplett Model 310C-VOM was used to measure resistance of the two diode blocks. The black lead is plugged into the COM jack and the red lead is plugged into the V - O - M jack. NOTE: Do not attempt to measure resistance unless power has been completely removed from the Mach 10.



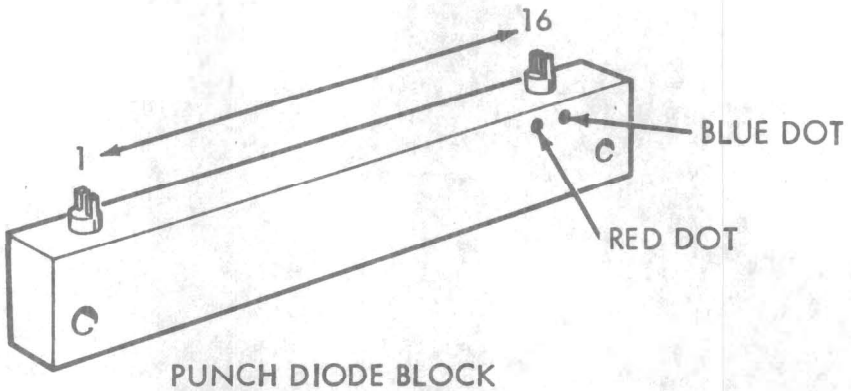
READER DIODE BLOCK

Figure 3-12

It is not necessary for the Reader to be connected for Reader Diode Block measurements.

READER DIODE BLOCK TERMINAL NO.	RESISTANCE WITH BLACK LEAD ON TERMINAL NO. 14 OR 17	RESISTANCE WITH RED LEAD ON TERMINAL NO. 14 OR 17
1	900 ohms	3000 ohms
2	900 ohms	3000 ohms
3	900 ohms	3000 ohms
4	900 ohms	3000 ohms
5	900 ohms	3000 ohms
6	900 ohms	3000 ohms
7	900 ohms	3300 ohms
8	700 ohms	900 ohms
9	700 ohms	900 ohms
10	700 ohms	900 ohms
11	650 ohms	750 ohms
12	200 ohms	200 ohms
13	600 ohms	700 ohms
15	700 ohms	900 ohms
16	900 ohms	Open

DIODE BLOCK RESISTANCE MEASUREMENTS



PUNCH DIODE BLOCK

Figure 3-13

The Punch may be removed and disconnected from the Mach 10 for diode resistance measurements or the Punch may be left in position and only connector PJ3 disconnected to permit resistance measurements. The connector pins of PJ3 that correspond to the terminals of the Punch diode block are also listed. It is not necessary to disconnect the Punch for diode resistance readings.

PUNCH DIODE BLOCK TERMINAL NO.	PJ3 PIN NO.	RESISTANCE WITH BLACK LEAD ON TERMINAL NO. 16 OR PJ3-B8	RESISTANCE WITH RED LEAD ON TERMINAL NO. 16 OR PJ3-B8
1	A8	900 ohms	700 ohms
2	A7	900 ohms	700 ohms
3	A6	900 ohms	700 ohms
4	C6	2000 ohms	Open
5	A5	900 ohms	700 ohms
6	C5	2000 ohms	Open
7	A8	900 ohms	700 ohms
8	C4	2000 ohms	Open
9	A3	900 ohms	700 ohms
10	C3	2000 ohms	Open
11	A2	900 ohms	700 ohms
12	C2	2000 ohms	Open
13	A1	900 ohms	700 ohms
14	C1	2000 ohms	Open
15	C8	Open	1200 ohms

J6

pin

1 = Red (diode D3)

5 = Brown = where D3 goes

7 = Yellow (to White with orn trace)

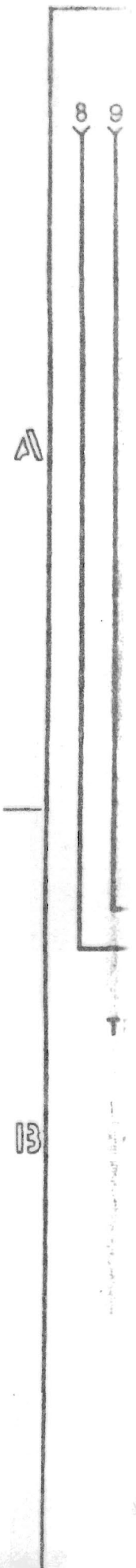
8 = Orn. to Pin 13 of K13

6 = White to Pin 11 of K_2

3 = Blue to Pin 11 of K_3

4 = Green = TO chassis grd.

2 = Black to D2



MAR. 17 1965