729824 STANDARDS CODE

CARD CODE	729824
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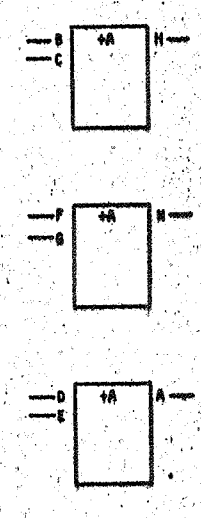
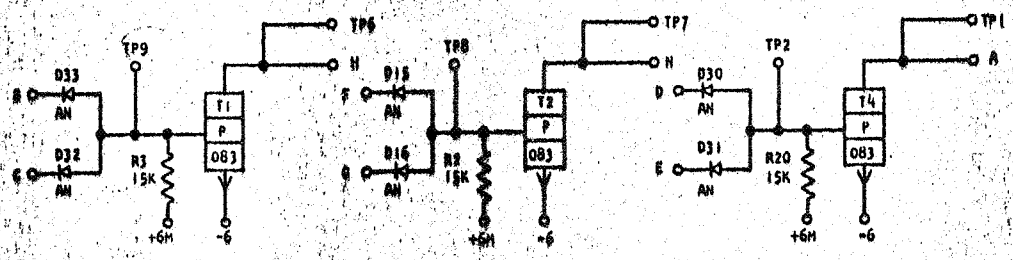
REFERENCE DRAWING

SEE PRODUCTION DRAWING 371266

CTDL - TWO WAY "AND" NPN NO LOADS





SEQUENCE OF OPERATION

1. BOTH INPUTS UP, TRANSISTOR ON, OUTPUT DOWN
2. ANY INPUT DOWN, TRANSISTOR OFF, OUTPUT UP
3. COLLECTORS MUST BE LOADED
4. LOGIC BLOCKS MAY HAVE SYMBOLS OTHER THAN SHOWN.

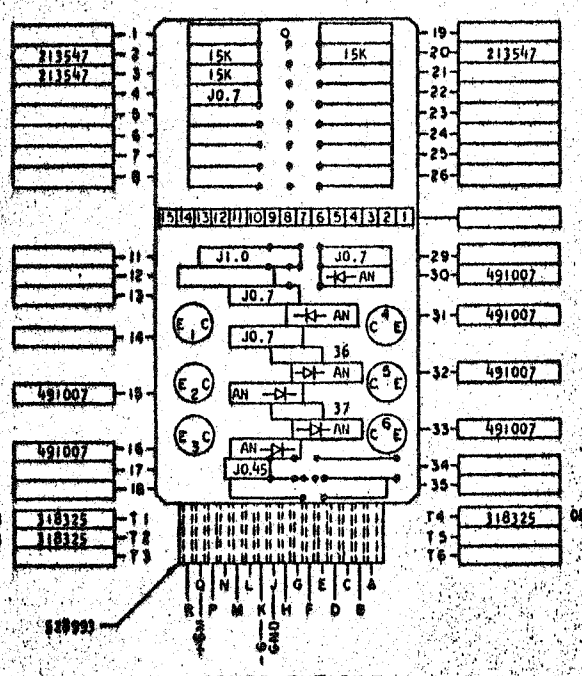
PINS		SIGNAL NAME	WAVE SHAPE	LEVELS	MIN	MAX
B,F,D	U	INPUT		UP	-5.26	0.24
				DOWN	-7.44	-12.5
C,G,E	U	INPUT		UP	-5.26	0.24
				DOWN	-7.44	-12.5
H,N,A	T	OUTPUT		UP	1.44	6.24
				DOWN	-5.46	-6.24

DELAY - USEC

	MINIMUM	MAXIMUM
TURN ON	0.05	0.70
TURN OFF	0.05	1.50*

*THIS DELAY CAN OCCUR ONLY ON HEAVILY LOADED BLOCKS.

NOTE: THE ABOVE RANGES OF DELAYS ARE REPRESENTATIVE. SPECIFIC CIRCUIT APPLICATION AND/OR WIRING CAPACITANCE MAY RESULT IN DELAYS WHICH ARE OUT OF THE GIVEN RANGES. IN SUCH CASES, CARD REPLACEMENT SHOULD INDICATE IF THE CIRCUIT IS OUT OF SPECIFICATIONS.
EXAMPLE: LOGIC BLOCK DRIVING EF "OR".



COMPONENT SIDE

CIRCUIT AND PACKAGING STANDARD	
APPROVAL	DATE
ABC	4-2-62

INTERNATIONAL BUSINESS MACHINES CORP.					DATE	CHANGE NO.	APPROVAL	DATE	CHANGE NO.	APPROVAL	DEVELOPMENT NO.
NAME	CARD ASM TSTR - CTDL-TWO WAY "AND" NPN NO LOADS				4-2-62	115890					
DESIGN			MODEL	SMS							
DETAIL	RO	3-1-62	SCALE	NONE							
CHECK	WH	3-1-62	DRAW	LIG 3-17-62							
APPRD			CHECK								

C

729824