

TIME RANGE MOD.

ON 2228A TDC'S.

2, 5, & 10  $\mu$ Sec

## MOD

2, 5, 10  $\mu$ sec

- 1.) Replace (8) resistors (1.62K BA to BK) to <sup>(Pin 13)</sup> 234 K (1%) Used 41.2K 1%  
in// with 200K 1%  
Use 33K2
- 2.) Change Jumper  $\rightarrow$  Remove G4, Install G3
- 3.) Remove 22K resistor (Q7 emitter) replace with 200K 1%
- 4.) Remove 240pF Cap (TE Pin 4) replace with 2200pF ~~Cap~~ Cap

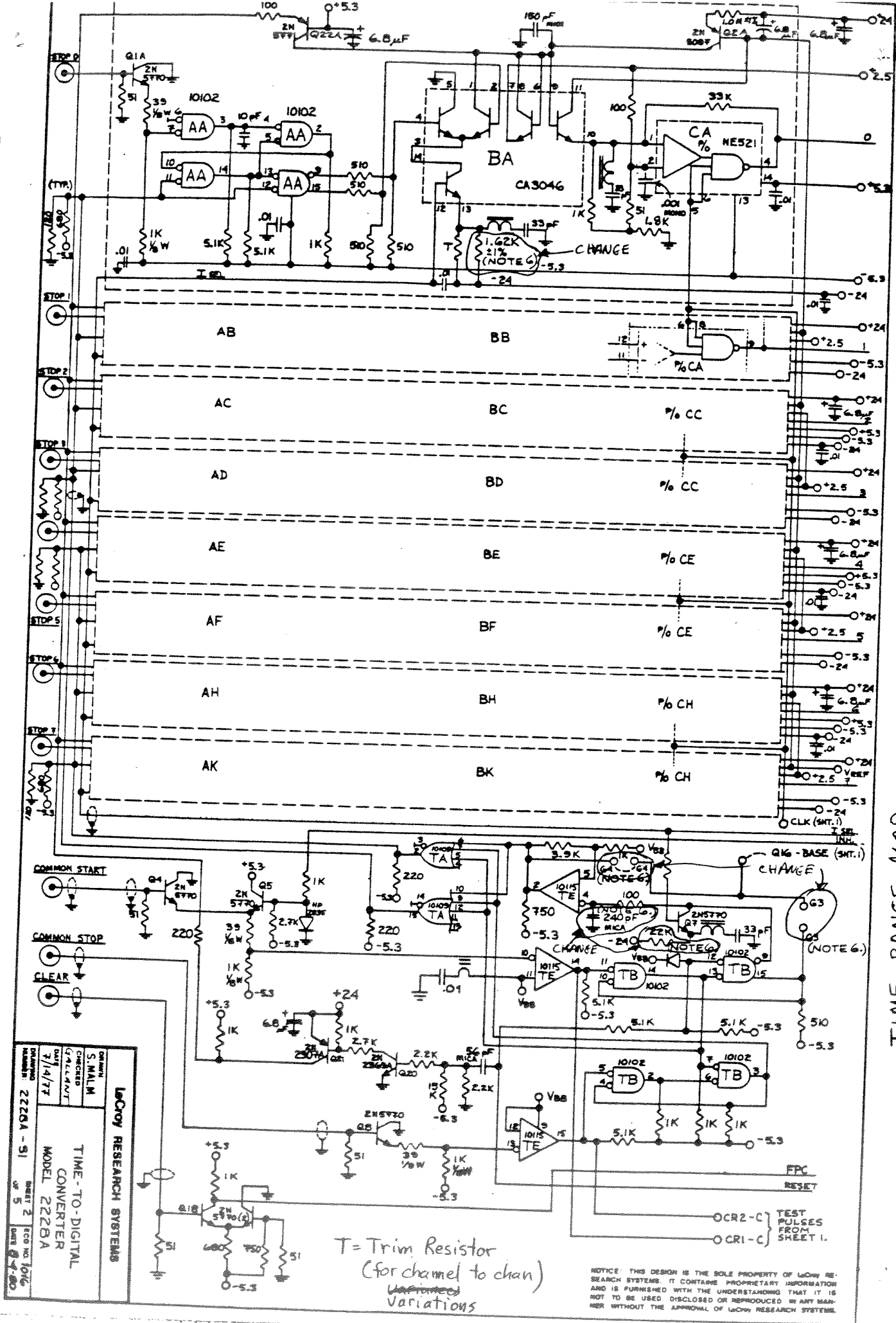
## PARTS NEEDED

- (8) Resistors - 33.2K 1%
- (1) Resistor - 200K 1%
- (1) Cap - 2200pF

RANGE 1: 2  $\mu$ Sec Full Scale (2000 counts) = 1 nSec/count

RANGE 2: 5  $\mu$ Sec Full Scale " " = 2.5 nSec/count

RANGE 3: 10  $\mu$ Sec Full Scale " " = 5 nSec/count

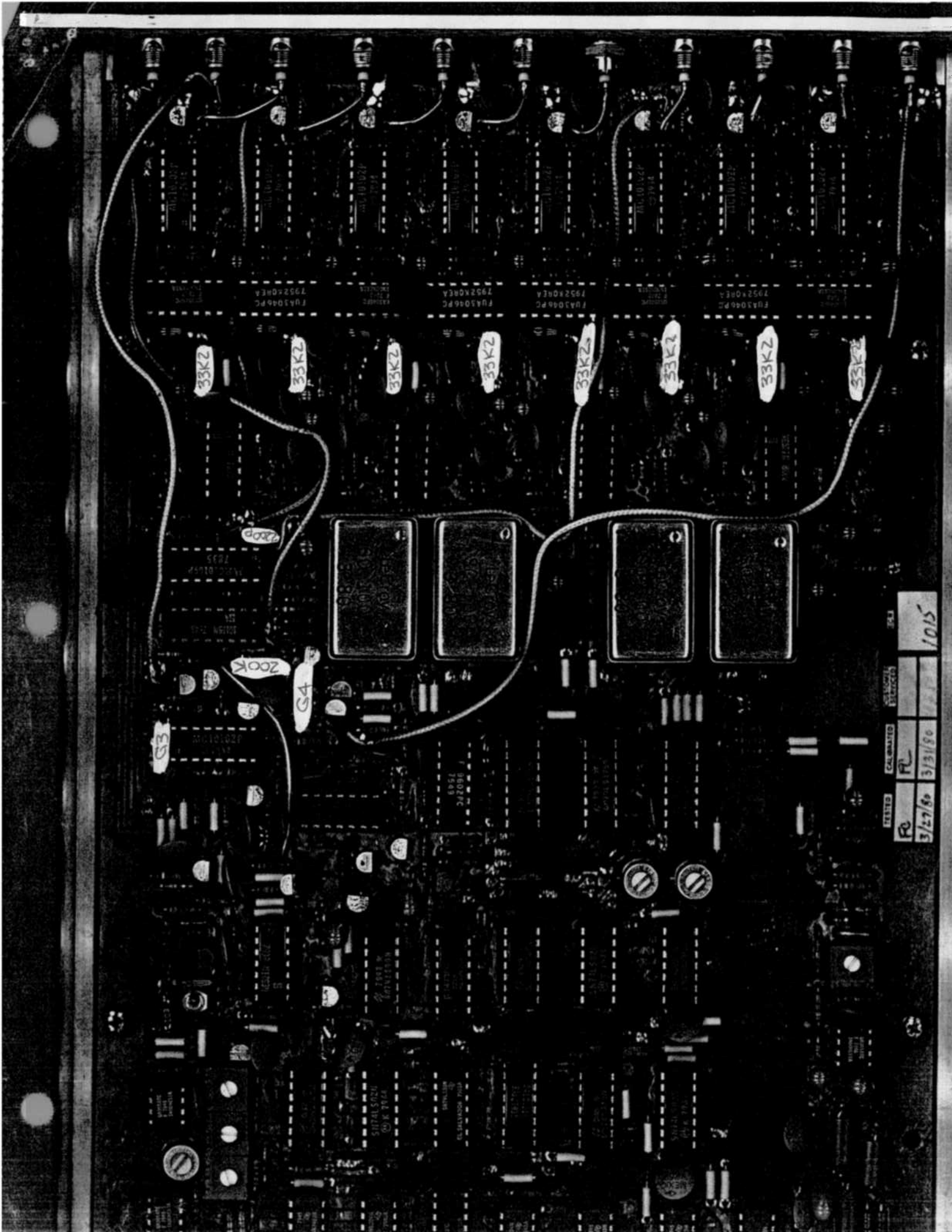


TIME RANGE MOD / 2, 5, & 10msec  
2228A

**LEOBY RESEARCH SYSTEMS**  
 MODEL 2228A  
 TIME-TO-DIGITAL CONVERTER  
 SHEET 2 OF 5

T = Trim Resistor  
 (for channel to chan)  
 variations

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REVISED	CALCULATED	DESIGNED	DATE
PC	FL	3/27/80	3/31/80
			1015