

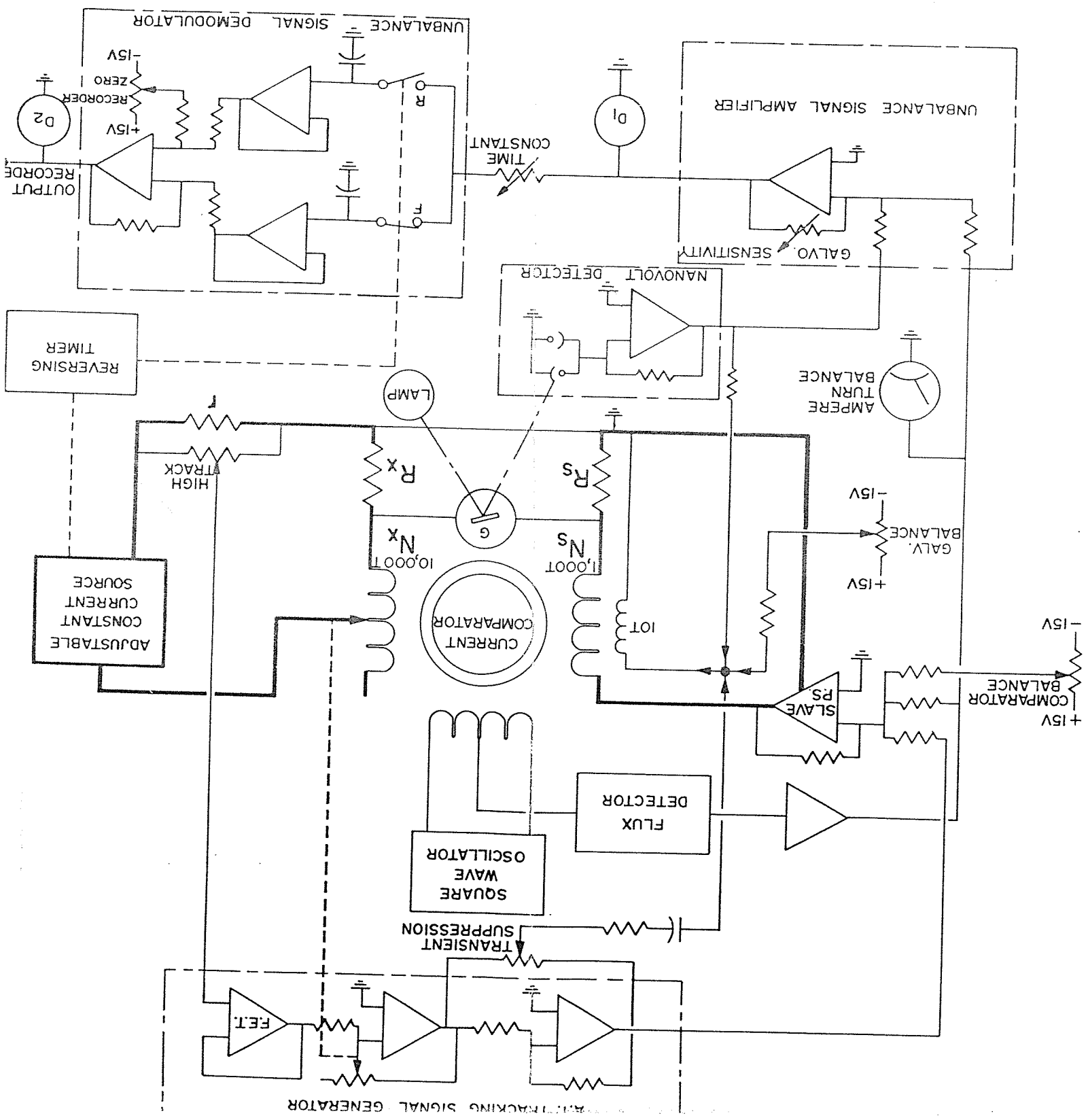


FIG. 4-1
MODEL 9975
SIMPLIFIED SCHEMATIC
 $R_S \leq 1 \text{ k}\Omega$ MODE

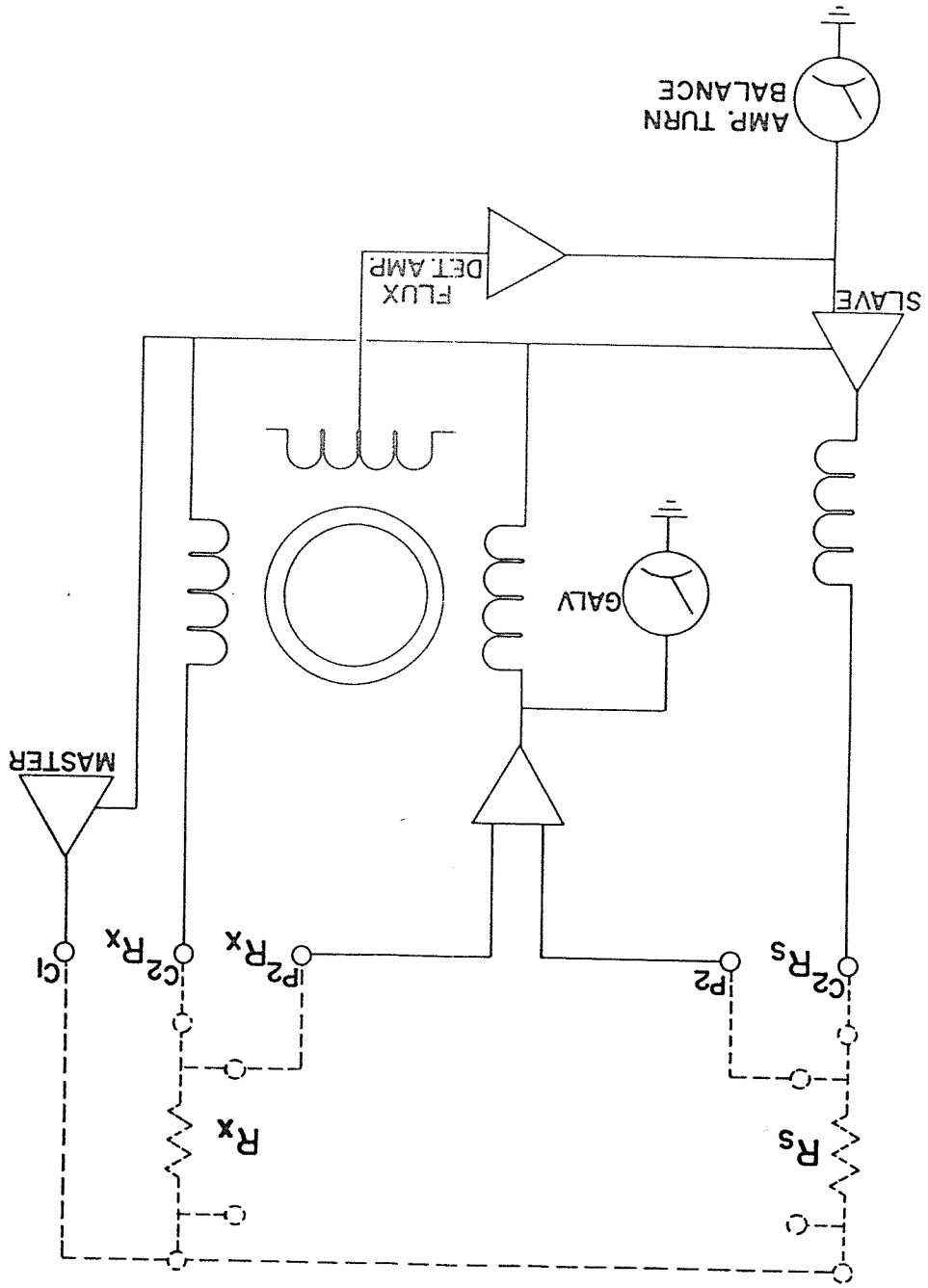


FIG. 4-2
MODEL 9975
SIMPLIFIED SCHEMATIC
 $R_s \geq 10 \text{ k}\Omega$ MODE

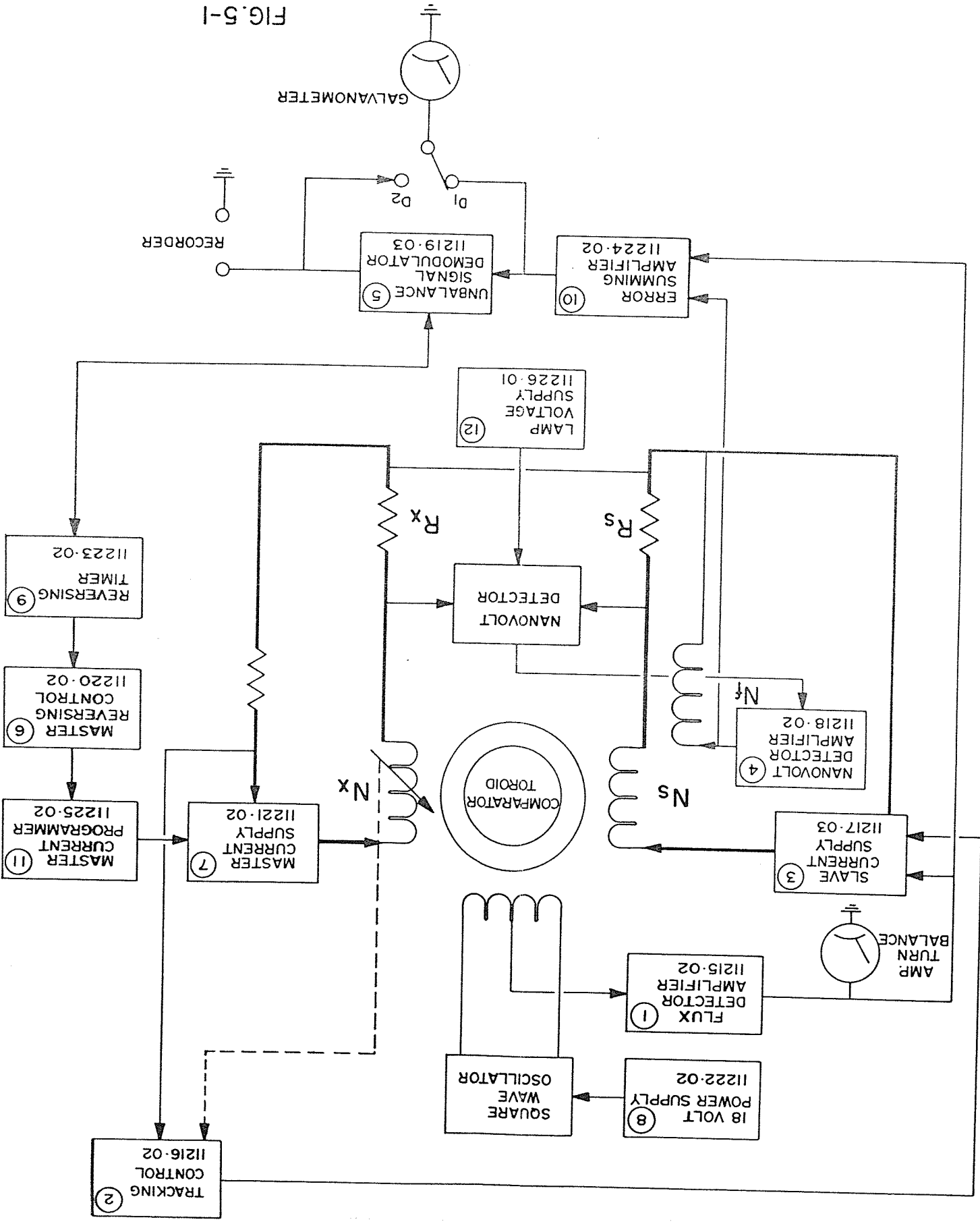
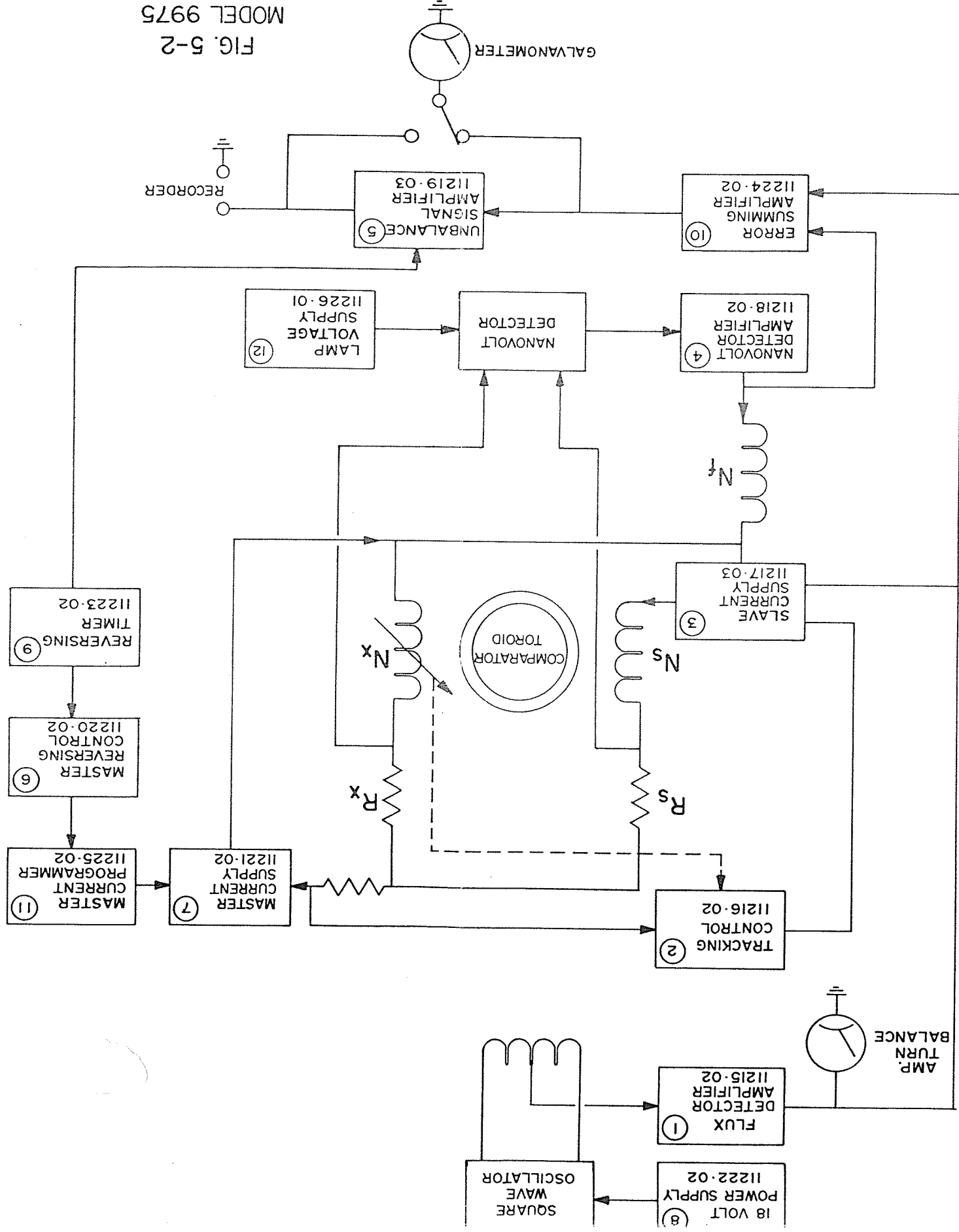


FIG. 5-1

BLOCK DIAGRAM
MODEL 9975
 $R_s \leq 1 \text{ k}\Omega$ MODE

FIG. 5-2
BLOCK DIAGRAM
MODEL 9975
 $R_s \geq 10 \text{ k}\Omega$ MODE



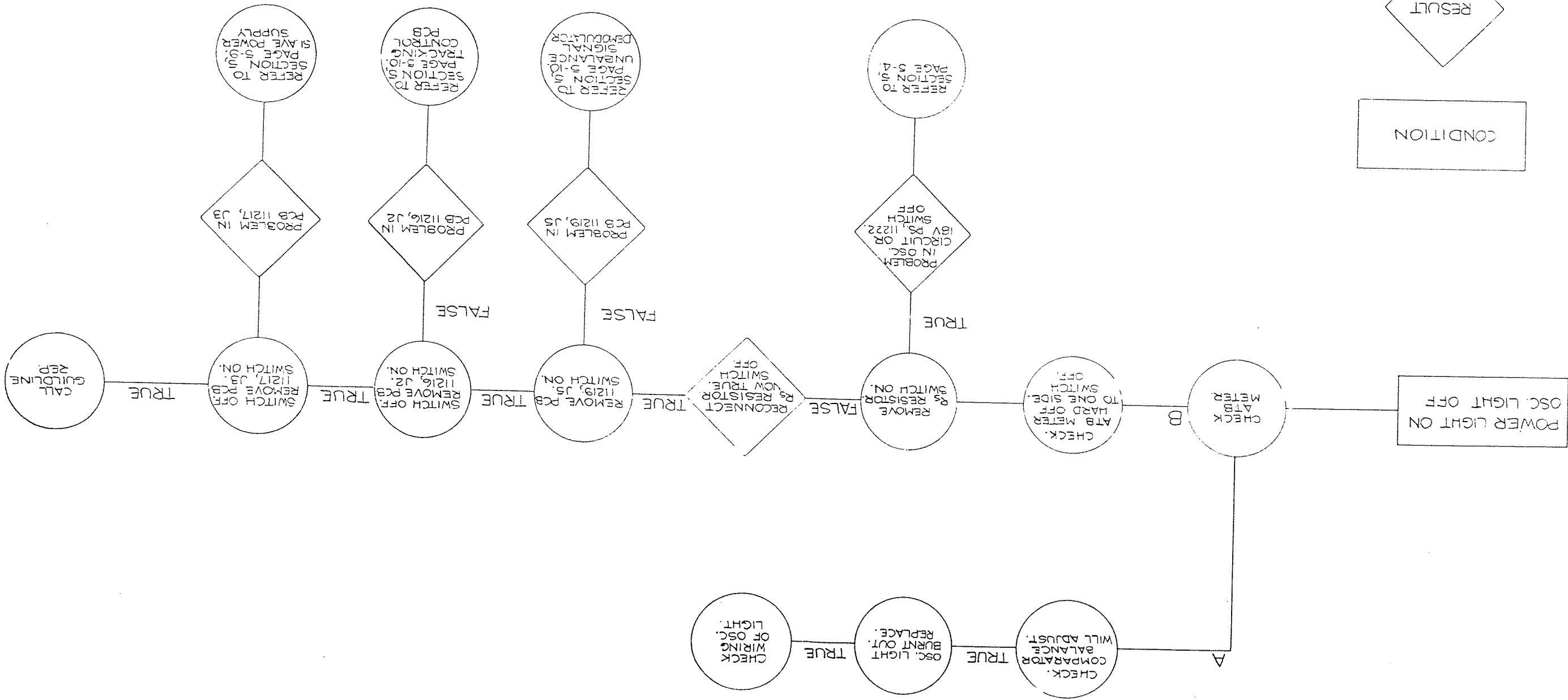
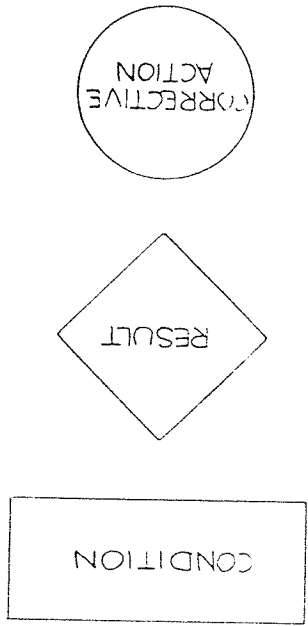
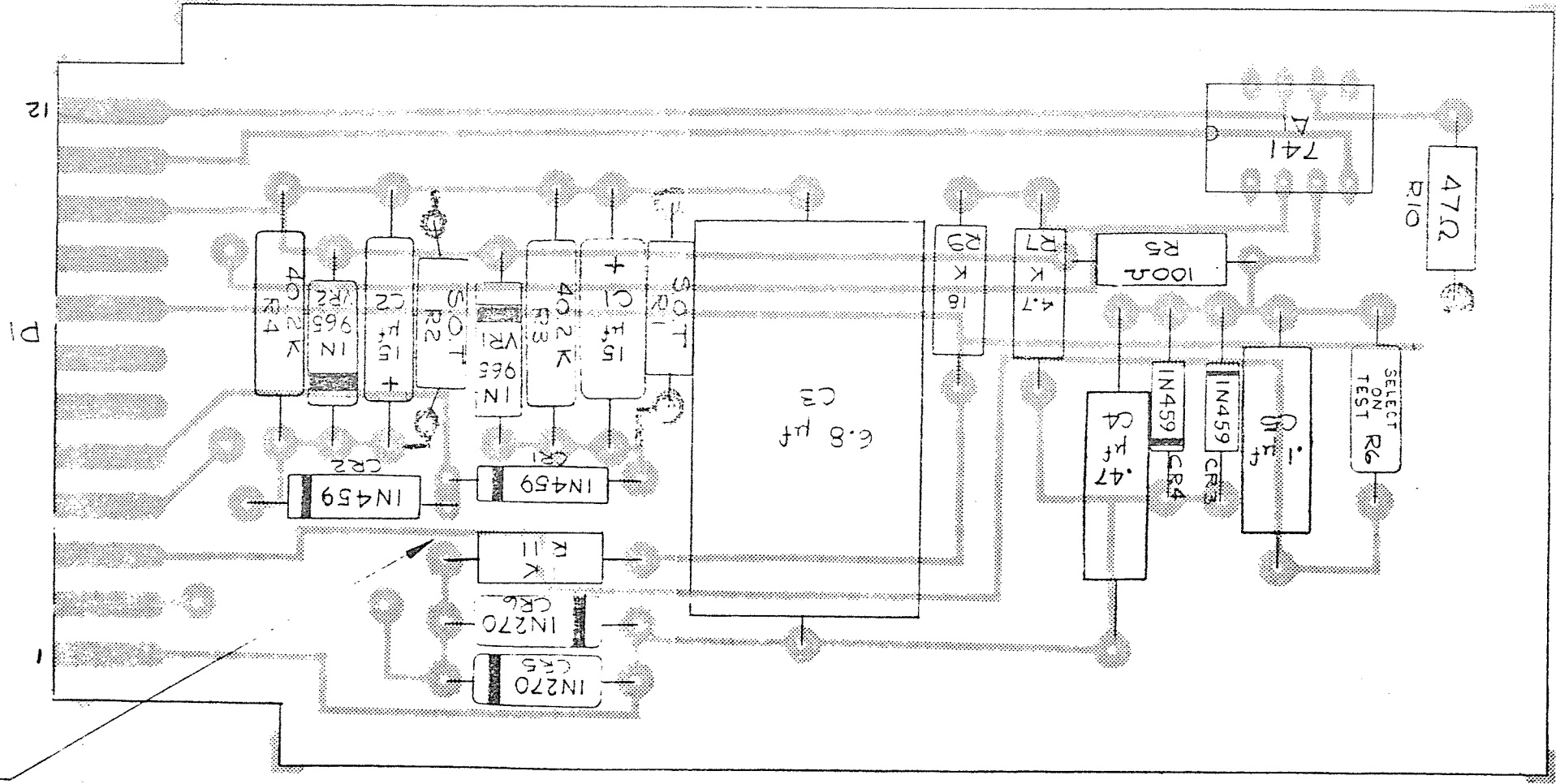


FIG. 5-3
POWER LIGHT ON, OSC LIGHT OFF
TROUBLESHOOTING GUIDE

REV.	DESCRIPTION	DATE
J	ECN 566	26-2-73
K	ECN 1225	25-10-72
L	ECN 1510	

CHECK THIS AREA TO ENSURE
A GAP BETWEEN PAD AND
TRACK.

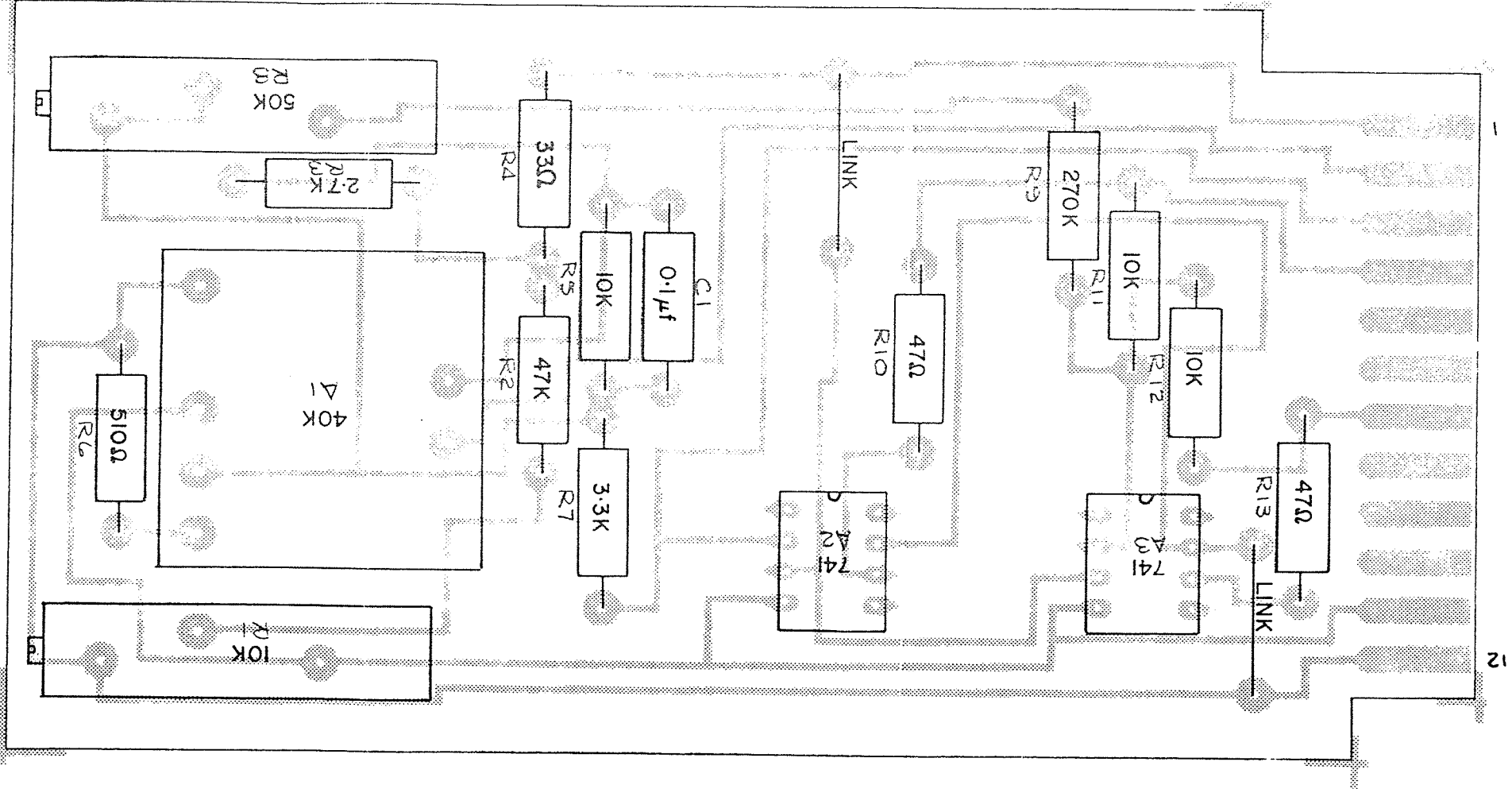


TOLERANCES DECIMAL UNLESS ± .00 .010 SPECIFIED: ± .000 .003			FRACTIONAL ± 1/64			ANGULAR ± 1/2°			BREAK ALL SHARP CORNERS .010 MAX.					
GUILDLINE INSTRUMENTS LTD. SMITHS FALLS, ONTARIO CANADA			GUILDLINE INSTRUMENTS LTD. SMITHS FALLS, ONTARIO CANADA			GUILDLINE INSTRUMENTS LTD. SMITHS FALLS, ONTARIO CANADA			GUILDLINE INSTRUMENTS LTD. SMITHS FALLS, ONTARIO CANADA					
DRAWN DATE 26-2-73			CHECKED CWC			DATE MAR 21, 73			APPROVED IM			DATE 123 73		
UNIT			NEXT ASSY			QTY			USED ON					
9932						1								
9975						1								

GUILDLINE INSTRUMENTS LTD. SMITHS FALLS, ONTARIO CANADA			GUILDLINE INSTRUMENTS LTD. SMITHS FALLS, ONTARIO CANADA			GUILDLINE INSTRUMENTS LTD. SMITHS FALLS, ONTARIO CANADA			GUILDLINE INSTRUMENTS LTD. SMITHS FALLS, ONTARIO CANADA					
DRAWN DATE 26-2-73			CHECKED CWC			DATE MAR 21, 73			APPROVED IM			DATE 123 73		
UNIT			NEXT ASSY			QTY			USED ON					
9932						1								
9975						1								

GUILDLINE INSTRUMENTS LTD.			SMITHS FALLS, ONTARIO CANADA			DRAWING NO.			11215.02.02			SCALE			2:1			SHEET			OF		
MAT'L			FINISH			SIZE			B			SCALE			2:1			SHEET			OF		
TITLE			FLUX DETECTOR AMP			R.P. BOARD			11215.02.02			SCALE			2:1			SHEET			OF		

REV.	DESCRIPTION	DATE	APPROV
M	ECN 566 REDRAWN	27-2-73	
N	ECN 724	30-1-74	
P	ECN 1225	25-10-73	



P 2

12

UNIT	NEXT ASSY	QTY
9975		1

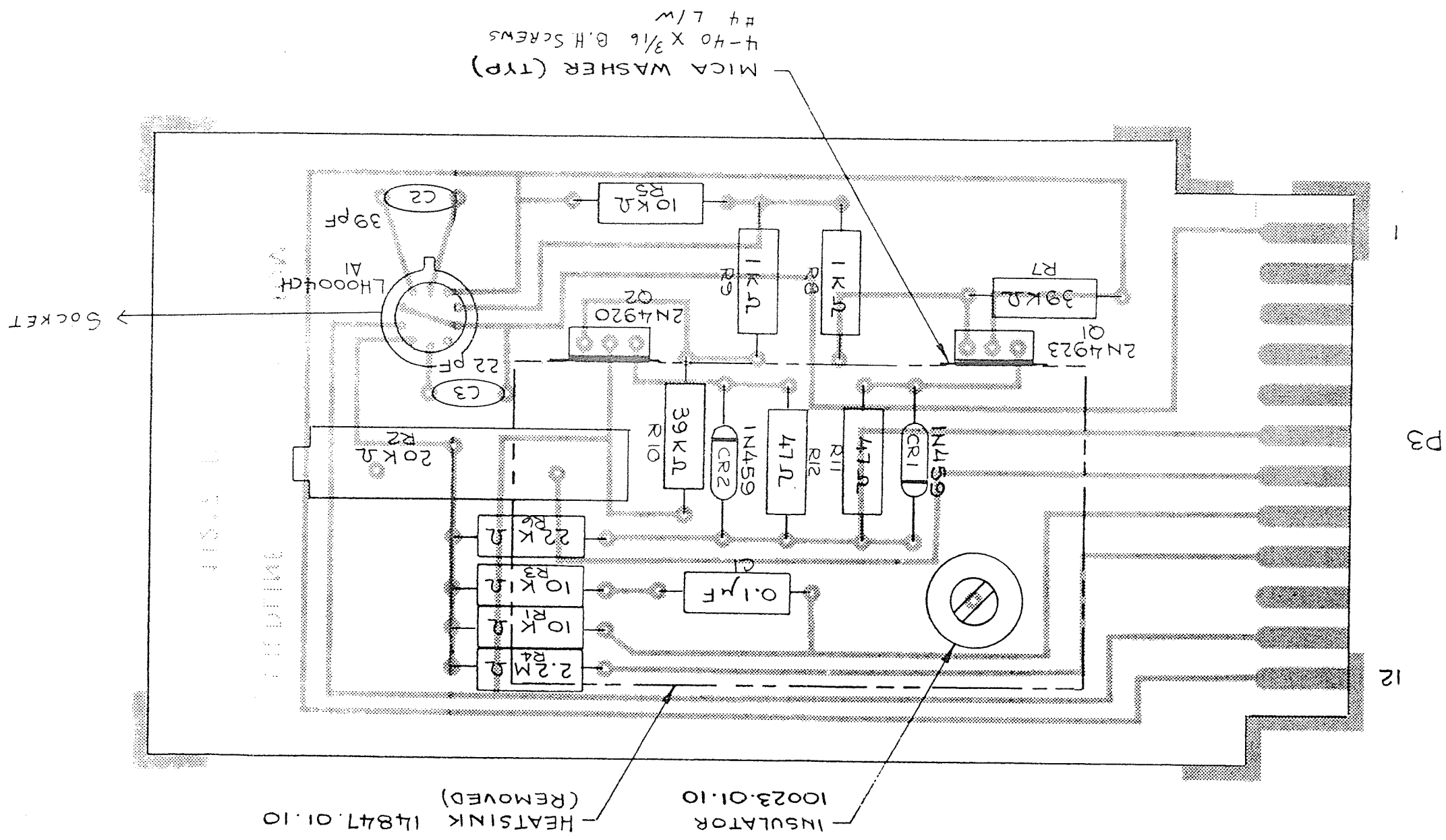
DRAWN t. Koehler	DATE 27 FEB 73	CHECKED C W C	DATE MAR 21 73	APPROVED I M	DATE 11/12/73
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TITLE	MAT'L	FINISH	SIZE	SCALE
TRACKING CONTROL			B	11216-02-02

REV	DRAWING NO	SMITHS FALLS, ONTARIO CANADA
	11216-02-02	

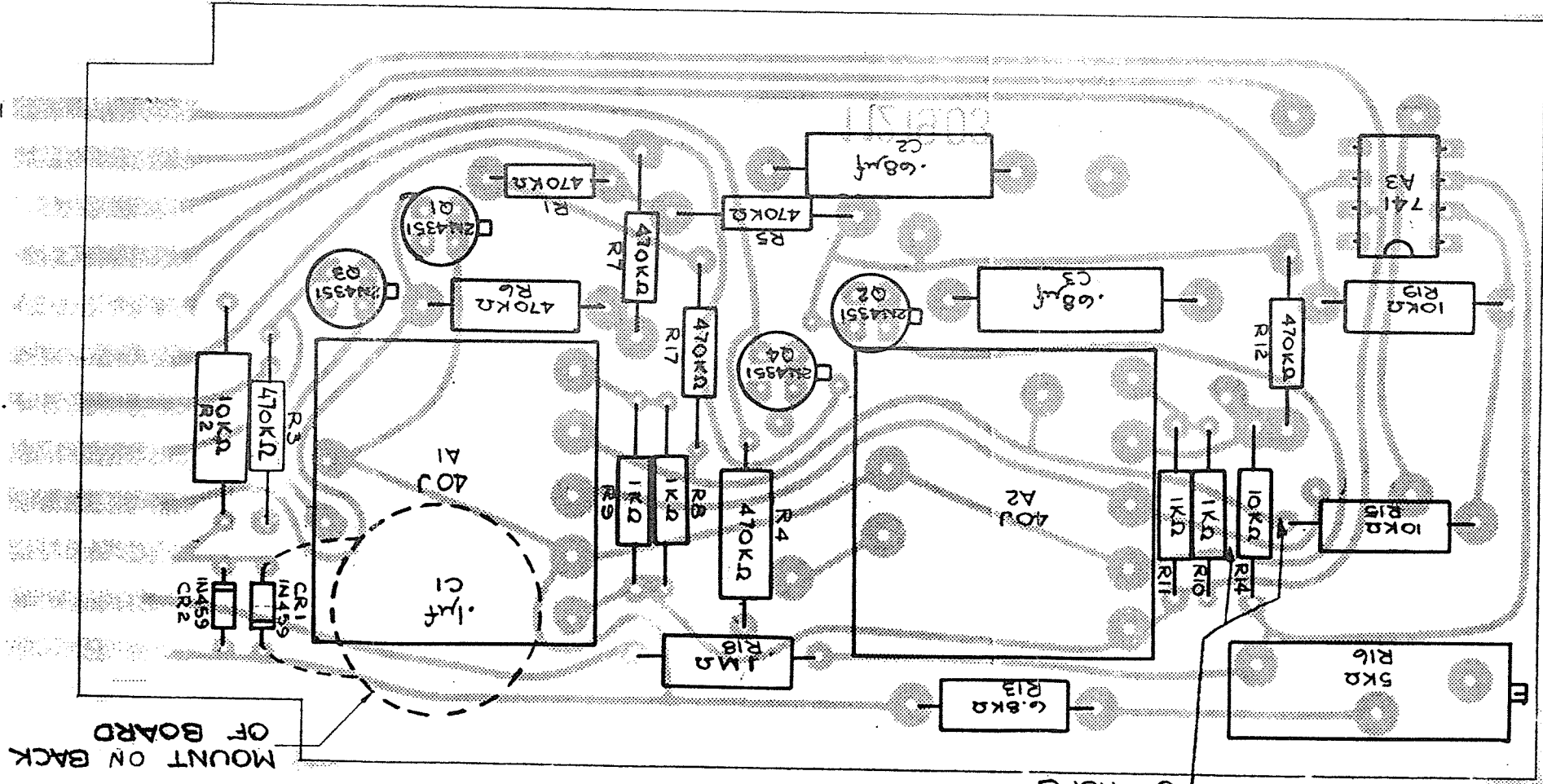
TOLERANCES DECIMAL UNLESS SPECIFIED: ±.00 .010 ±.000 .003
 FRACTIONAL ± 1/64
 ANGULAR ± 1/2°
 ALL DIMENSIONS ARE IN INCHES
 BREAK ALL SHARP CORNERS .010 MAX.

GUIDELINE INSTRUMENTS LTD.		
DWN	CHKD	SLAVE CURRENT SUPPLY
9975	APVD IM	PCB ASSEMBLY
MODEL	SCALE 2:1	DWG NO 11217.03.02 REV E



TOLERANCES DECIMAL UNLESS SPECIFIED: $\pm .000$.003		FRACTIONAL $\pm 1/64$		ANGULAR $\pm 1/2^\circ$		ALL DIMENSIONS ARE IN INCHES BREAK ALL SHARP CORNERS .010 MAX.	
DRAWN <i>JB</i> DATE 10/4/73		CHECKED <i>JB</i> DATE 10/4/73		APPROVED <i>JB</i> DATE 10/4/73		DATE	
MAT'L		FINISH		TITLE		UNBALANCE SIGNAL DEMODULATOR	
GUILDLINE INSTRUMENTS LTD. SMITHS FALLS, ONTARIO CANADA		SIZE		DRAWING NO.		REV	
B		11219.03.02		N		SCALE 2:1 SHEET 1 OF 1	

Note: Install A1, A2 first

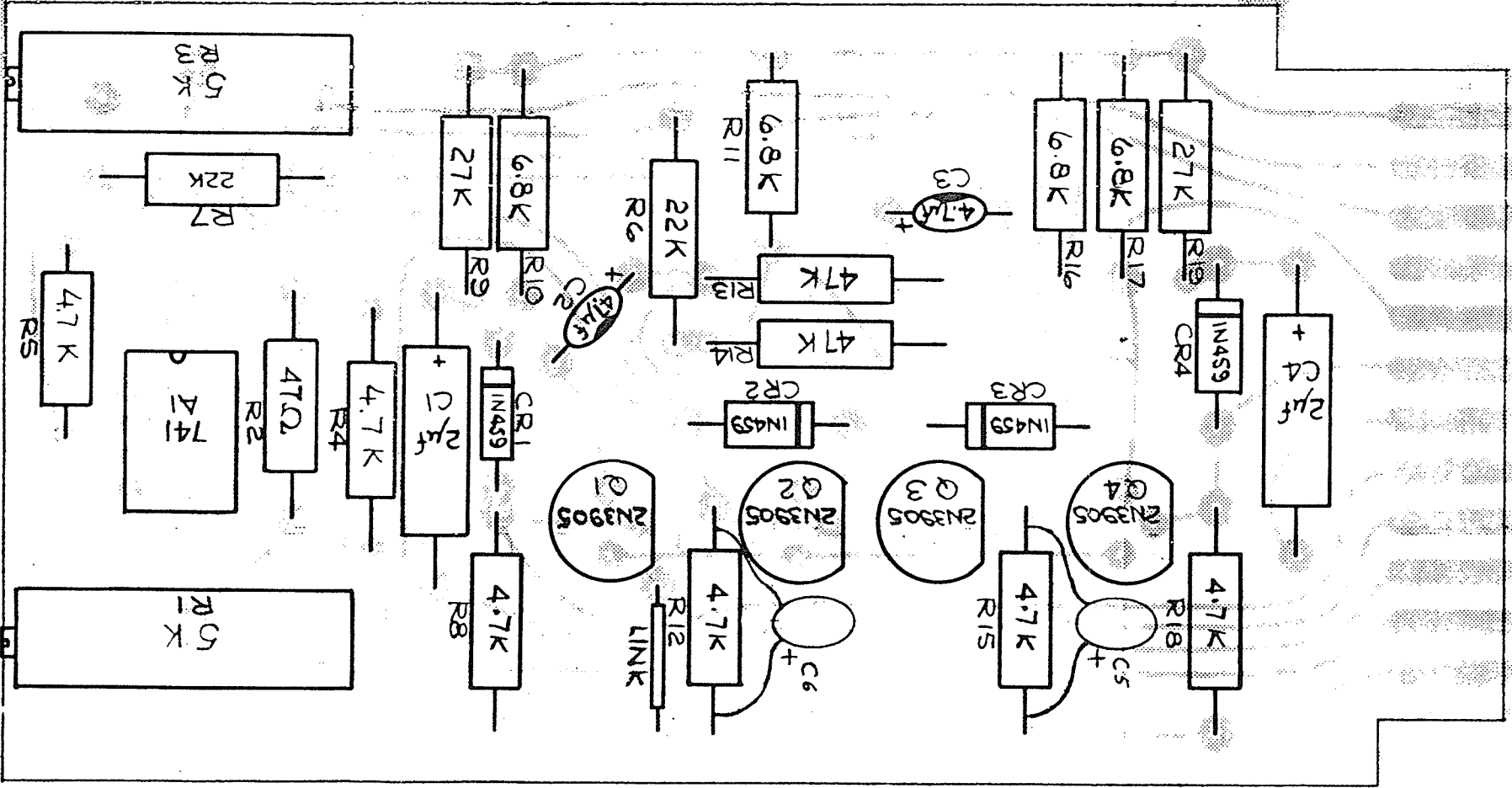


Make sure this 10K
doesn't touch here
or here

MOUNT ON BACK
OF BOARD

REV.	DESCRIPTION	DATE	APPROVA
H	REWORK ECN 601	10/4/73	
J	ECN 742	12-3-77	
L	ECN 1177	17-3-77	
M	ECN 1225	23-10-78	
N	ECN 2106		

REV.	DESCRIPTION	DATE	APPROVA
I	ECN 566 REDRAWN	27-2-73	
J	ECN 742	12-3-74	
K	ECN 1178	5-3-77	
L	ECN 1225	24-10-78	
M	ECN 2294	13-06-89	



P6

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TOLERANCES DECIMAL
UNLESS : 00 010
SPECIFIED : 000 003
FRACTIONAL
ANGULAR : 2°
BREAK ALL SHARP CORNERS 010 MAX

DRAWN	t. Koehler
DATE	27 FEB 73
CHECKED	CWC
DATE	MAR 21 73
APPROVED	IM
DATE	MAR 25 73

MAT'L	
FINISH	
TITLE	

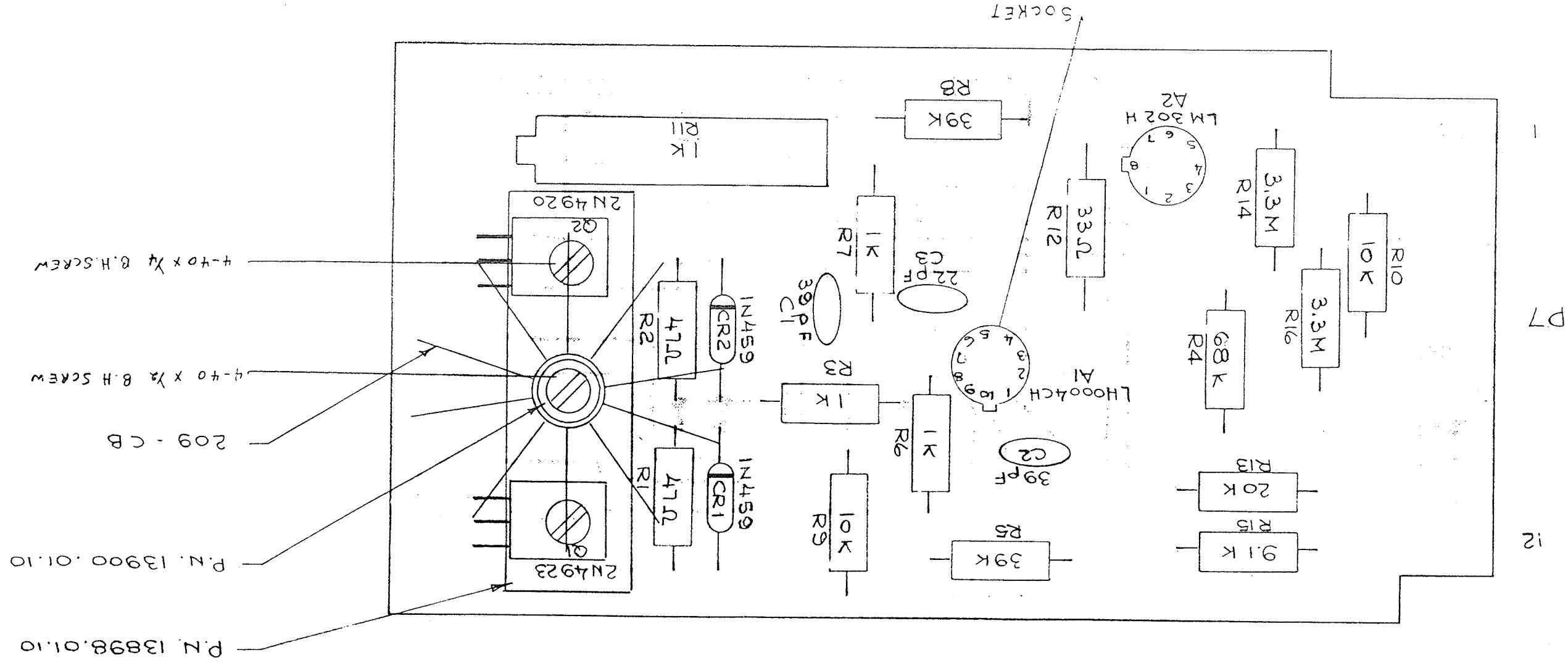
MASTER REVERSING
CONTROL PCB ASS'Y

GUILDLINE
INSTRUMENTS LTD.
SMITHS FALLS, ONTARIO CANADA
SIZE DRAWING NO
B 11220.02.02

UNIT	9975
NEXT ASSY	
CITY	
USED ON	

GUILDLINE INSTRUMENTS LTD.	DWN 6-12-76	MASTER CURRENT SUPPLY	PCB ASSEMBLY	DWG NO 11221.02.02 REV M
	CHKD			
	APVD IM			
	SCALE 2:1			
MODEL				

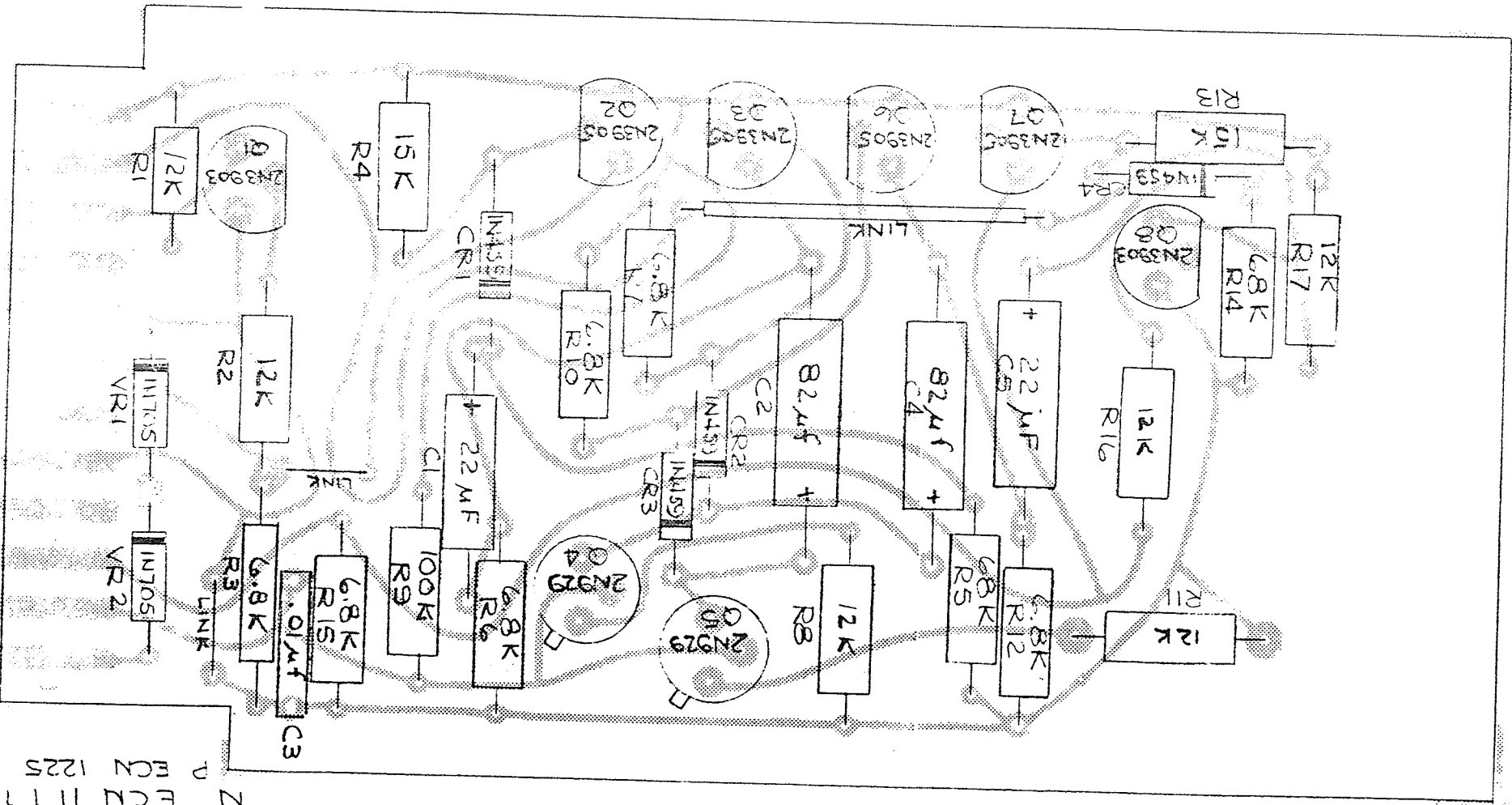
NOTE: INSTALL MICA WASHERS BETWEEN Q1, Q2 AND HEATSINK.



REV	DESCRIPTION	DATE	APPRO.
K	ECN 566	28-2-75	

L ECN 1019
 M ECN 1126
 N ECN 1177
 P ECN 1225

17-3-77
 26-10-78



TOLERANCES	DECIMAL	FRACTIONAL	ANGULAR
UNLESS SPECIFIED:	± .00 .010	± 1/64	± 1/2°
ALL DIMENSIONS ARE IN INCHES BREAK ALL SHARP CORNERS .010 MAX.			

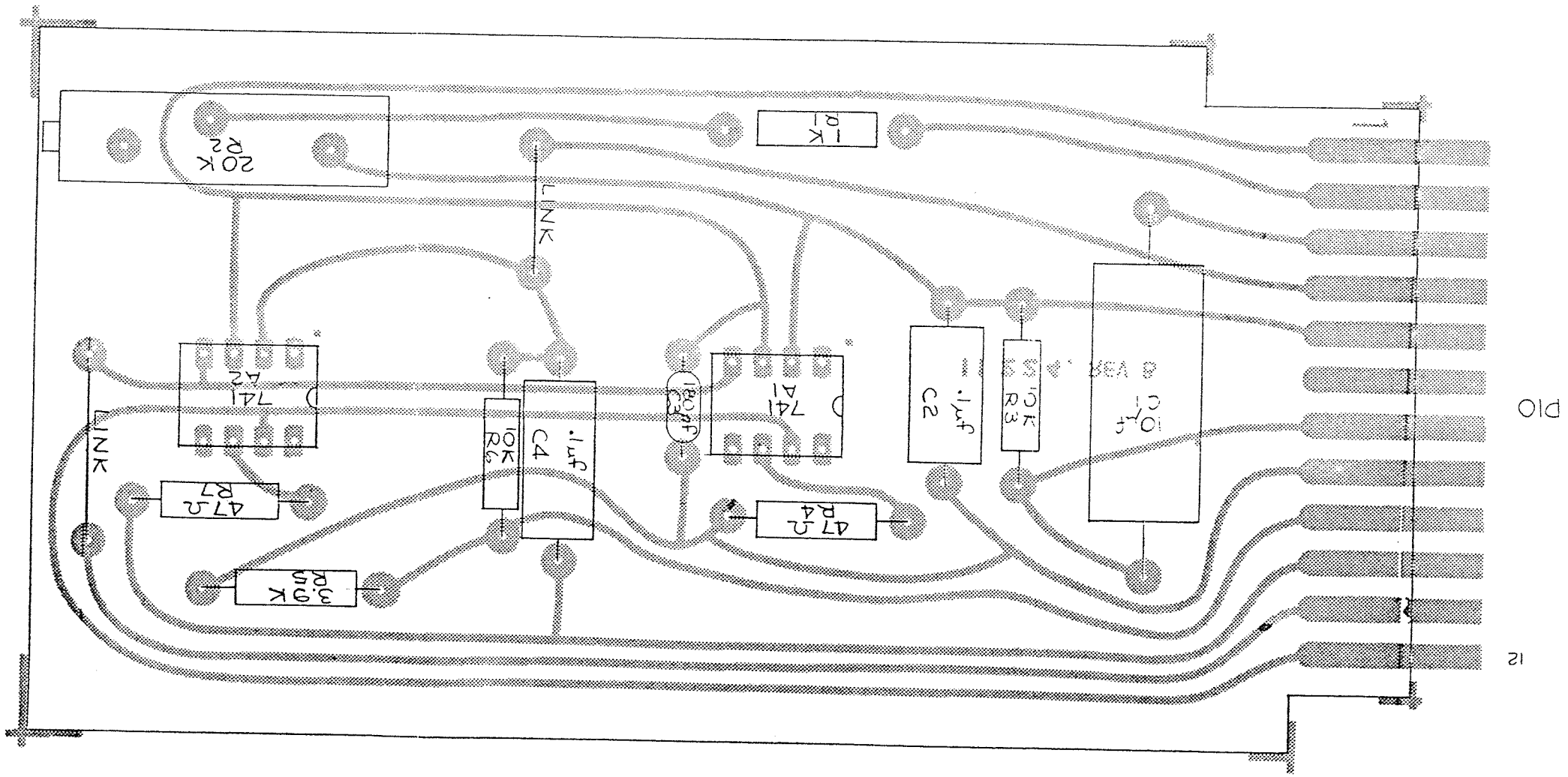
UNIT	NEXT ASSY	QTY
3975		1

DRAWN	T. Koehler
DATE	28 FEB 73
CHECKED	CWG
DATE	MAR 21 73
APPROVED	IM
DATE	APR 18 73

TITLE	MAT'L	FINISH
REVERSING TIMER		
PCB ASSY		

SCALE	2
SIZE	B
DRAWING NO	11223.02.02
REV	1

GUILDLINE
 INSTRUMENTS LTD.
 SMITHS FALLS, ONTARIO CANADA



GUILDLINE INSTRUMENTS LTD. SMITHS FALLS ONT. CANADA		dwg no. 1225 rev. 1
ER202 GUMMING LAMP PCB ASSEMBLY		sheet 1 of 1 date 12-11-79
checked by [signature] approved by [signature]		date 12-11-79