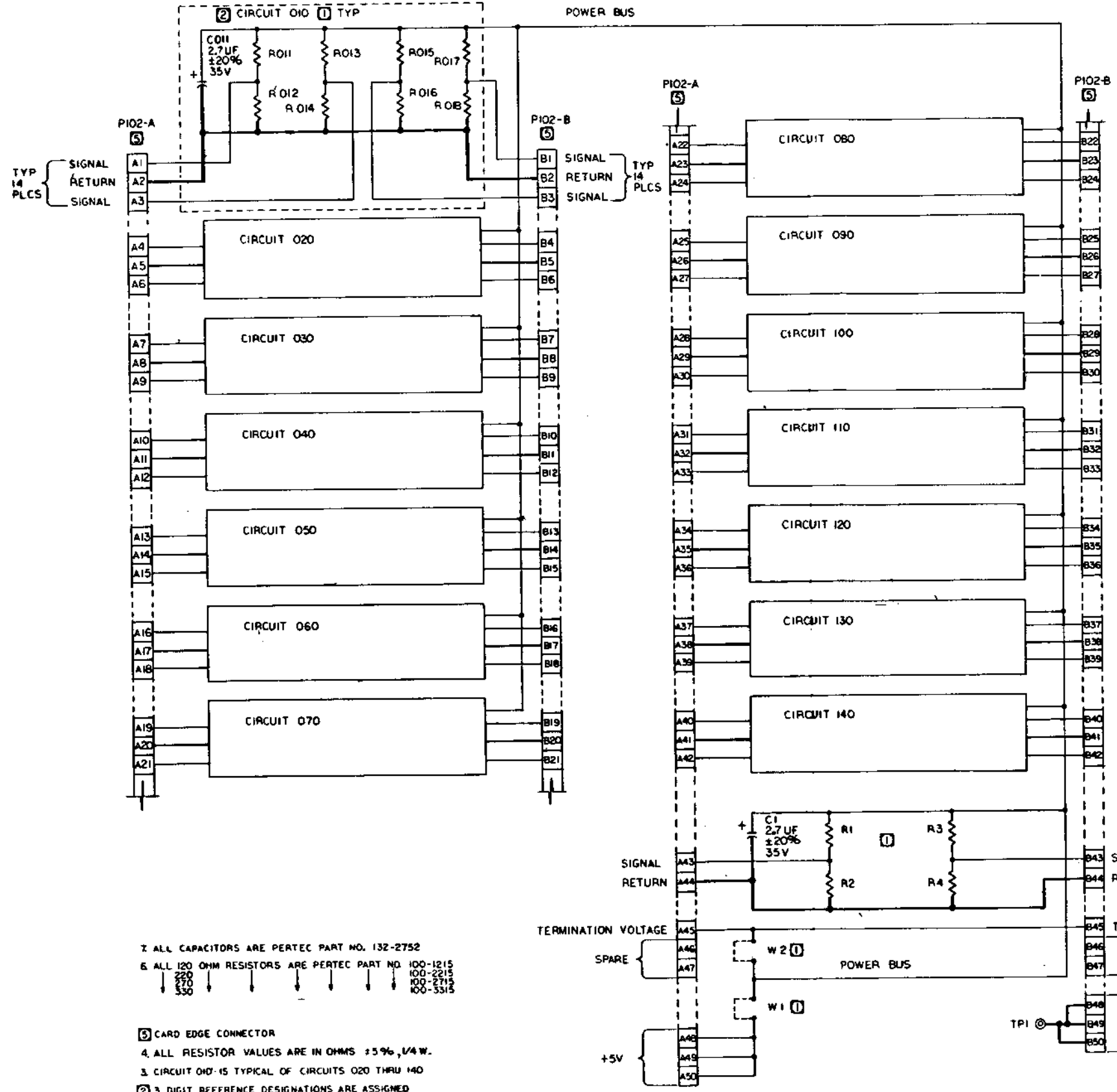


REVISIONS				
REV	DESCRIPTION	DATE	BY	CHK
A	ERN 4-57 PRE-PRODUCTION RELEASE	7/25/71	PLS	PLS
A1	ERN 4-57 IN PRODUCTION RELEASE	7/25/71	PLS	PLS
A1	ECN 5906	7/25/71	PLS	PLS
B	ECN 7722	7/25/71	PLS	PLS



2 ALL CAPACITORS ARE PERTEC PART NO. 132-2752
 3 ALL 120 OHM RESISTORS ARE PERTEC PART NO. 100-1215
 220 100-2215
 270 100-2715
 330 100-3315

- 5 CARD EDGE CONNECTOR
 - 4 ALL RESISTOR VALUES ARE IN OHMS ±5%, 1/4 W.
 - 3 CIRCUIT 010 IS TYPICAL OF CIRCUITS 020 THRU 140
 - 2 3 DIGIT REFERENCE DESIGNATIONS ARE ASSIGNED TO REPETITIVE CIRCUITS
 - 1 SEE VERSION TABLE, SHEET 2, FOR VALUE OR USAGE.
- NOTES: UNLESS OTHERWISE SPECIFIED

REFERENCE DESIGNATIONS			
LAST USED		DELETED	
BASIC	REPETITIVE	BASIC	REPETITIVE
C1	C141		
R4	R148		
TPI			
W2			

		PERIPHERAL EQUIPMENT OPERATOR	
TITLE SCHEMATIC, I/O TERMINATION BD			
SIZE E	PWS NO. 102800	REV B	DATE NONE

		PERIPHERAL EQUIPMENT OPERATOR	
TITLE SCHEMATIC, I/O TERMINATION BD			
SIZE E	PWS NO. 102800	REV B	DATE NONE

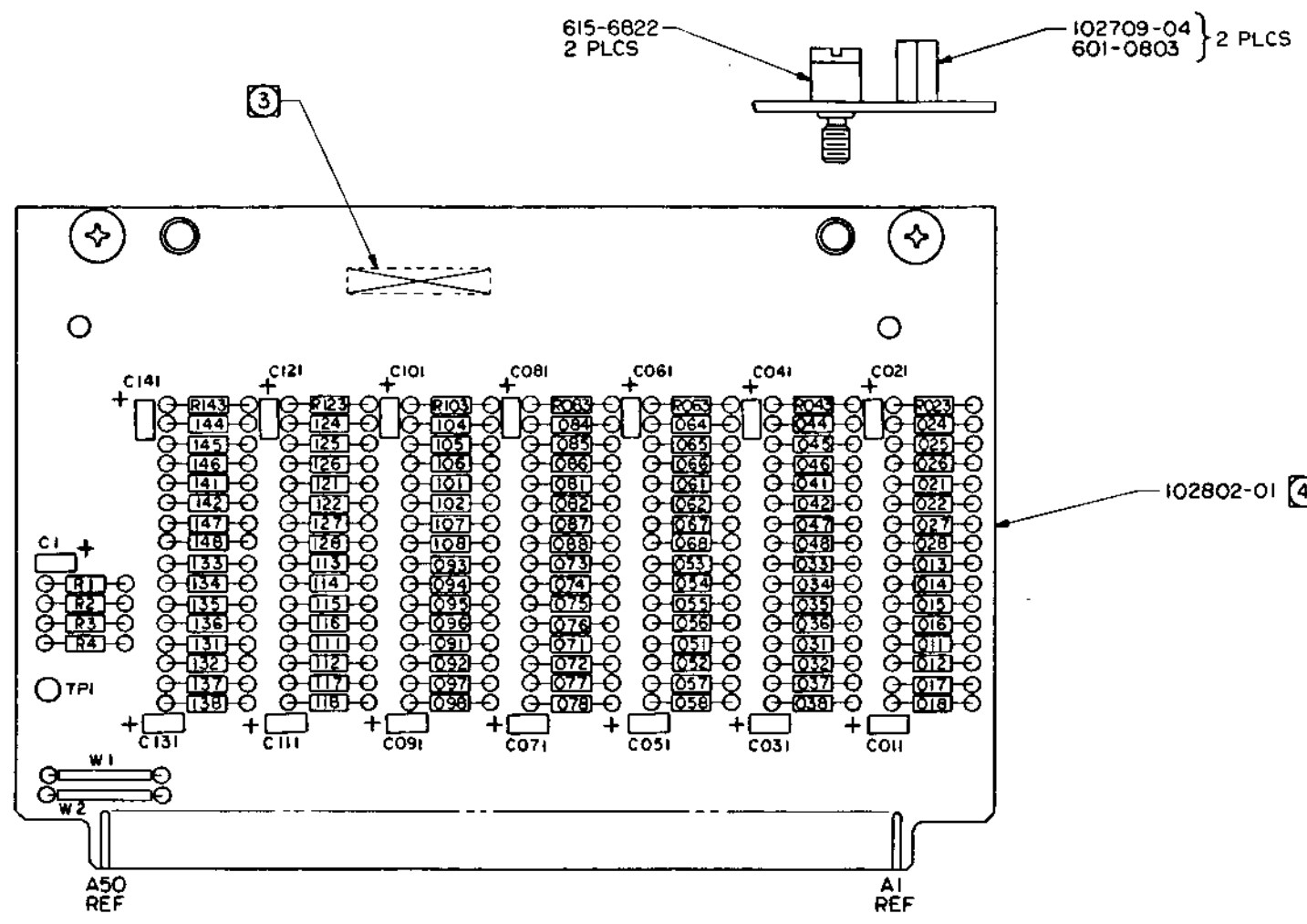
	-01	-02	-03	-04	-05	-06	-07
RO11	OMIT	OMIT	220	120	120	220	120
RO12			330	OMIT	OMIT	330	OMIT
RO13			220	120	120	220	120
RO14			330	OMIT	OMIT	330	OMIT
RO15			220	120	120	220	120
RO16			330	OMIT	OMIT	330	OMIT
RO17			220	120	120	220	120
RO18			330	OMIT	OMIT	330	OMIT
RO21			220	120	120	220	120
RO22			330	OMIT	OMIT	330	OMIT
RO23			220	120	120	220	120
RO24			330	OMIT	OMIT	330	OMIT
RO25			220	120	120	220	120
RO26			330	OMIT	OMIT	330	OMIT
RO27			220	120	120	220	120
RO28			330	OMIT	OMIT	330	OMIT
RO31			220	120	120	220	120
RO32			330	OMIT	OMIT	330	OMIT
RO33			220	120	120	220	120
RO34			330	OMIT	OMIT	330	OMIT
RO35			220	120	120	220	120
RO36			330	OMIT	OMIT	330	OMIT
RO37			220	120	120	220	120
RO38			330	OMIT	OMIT	330	OMIT
RO41			220	120	120	220	120
RO42			330	OMIT	OMIT	330	OMIT
RO43			220	120	120	220	120
RO44			330	OMIT	OMIT	330	OMIT
RO45			220	120	120	220	120
RO46			330	OMIT	OMIT	330	OMIT
RO47			220	120	120	220	120
RO48			330	OMIT	OMIT	330	OMIT
RO51			220	120	120	220	120
RO52			330	OMIT	OMIT	330	OMIT
RO53			220	120	120	220	120
RO54			330	OMIT	OMIT	330	OMIT
RO55			220	120	120	220	120
RO56			330	OMIT	OMIT	330	OMIT
RO57			220	120	120	220	120
RO58			330	OMIT	OMIT	330	OMIT
RO61			220	120	120	220	120
RO62			330	OMIT	OMIT	330	OMIT
RO63			220	120	120	220	120
RO64			330	OMIT	OMIT	330	OMIT
RO65			220	120	120	220	120
RO66			330	OMIT	OMIT	330	OMIT
RO67			220	120	120	220	120
RO68			330	OMIT	OMIT	330	OMIT
RO71			220	120	120	220	120
RO72			330	OMIT	OMIT	330	OMIT
RO73			220	120	120	220	120
RO74			330	OMIT	OMIT	330	OMIT
RO75			220	120	120	220	120
RO76			330	OMIT	OMIT	330	OMIT
RO77			220	120	120	220	120
RO78	OMIT	OMIT	330	OMIT	OMIT	330	OMIT

	-01	-02	-03	-04	-05	-06	-07
O81	OMIT	220	220	120	270	220	120
O82		330	330	OMIT	OMIT	330	OMIT
O83		220	220	120	270	220	120
O84		330	330	OMIT	OMIT	330	OMIT
O85		220	220	120	270	220	120
O86		330	330	OMIT	OMIT	330	OMIT
O87		220	220	120	270	220	120
O88		330	330	OMIT	OMIT	330	OMIT
O91		220	220	120	270	220	120
O92		330	330	OMIT	OMIT	330	OMIT
O93		220	220	120	270	220	120
O94		330	330	OMIT	OMIT	330	OMIT
O95		220	220	120	270	220	120
O96		330	330	OMIT	OMIT	330	OMIT
O97		220	220	120	270	220	120
O98		330	330	OMIT	OMIT	330	OMIT
O101		220	220	120	270	220	120
O102		330	330	OMIT	OMIT	330	OMIT
O103		220	220	120	270	220	120
O104		330	330	OMIT	OMIT	330	OMIT
O105		220	220	120	270	220	120
O106		330	330	OMIT	OMIT	330	OMIT
O107		220	220	120	270	220	120
O108		330	330	OMIT	OMIT	330	OMIT
O111		220	220	120	270	220	120
O112		330	330	OMIT	OMIT	330	OMIT
O113		220	220	120	270	220	120
O114		330	330	OMIT	OMIT	330	OMIT
O115		220	220	120	270	220	120
O116		330	330	OMIT	OMIT	330	OMIT
O117		220	220	120	270	220	120
O118		330	330	OMIT	OMIT	330	OMIT
O121		220	220	120	270	220	120
O122		330	330	OMIT	OMIT	330	OMIT
O123		220	220	120	270	220	120
O124		330	330	OMIT	OMIT	330	OMIT
O125		220	220	120	270	220	120
O126		330	330	OMIT	OMIT	330	OMIT
O127		220	220	120	270	220	120
O128		330	330	OMIT	OMIT	330	OMIT
O131		220	220	120	270	220	120
O132		330	330	OMIT	OMIT	330	OMIT
O133		220	220	120	270	220	120
O134		330	330	OMIT	OMIT	330	OMIT
O135		220	220	120	270	220	120
O136		330	330	OMIT	OMIT	330	OMIT
O137		220	220	120	270	220	120
O138		330	330	OMIT	OMIT	330	OMIT
O141		220	220	120	270	220	120
O142		330	330	OMIT	OMIT	330	OMIT
O143		220	220	120	270	220	120
O144		330	330	OMIT	OMIT	330	OMIT
O145		220	220	120	270	220	120
O146		330	330	OMIT	OMIT	330	OMIT
O147		220	220	120	270	220	120
O148		330	330	OMIT	OMIT	330	OMIT
O1		220	220	120	270	220	120
O2		330	330	OMIT	OMIT	330	OMIT
O3		220	220	120	270	220	120
O4		330	330	OMIT	OMIT	330	OMIT
O1	USE	USE	USE	OMIT	OMIT	OMIT	OMIT
O2	OMIT	OMIT	OMIT	USE	USE	USE	USE
O11	USE	USE	USE	USE	USE	USE	USE
O11 THRU O141	USE	USE	USE	USE	USE	USE	USE

102801 130000

PREPARED BY DATE CHECKED BY DATE	APPROVED BY DATE TITLE SCHEMATIC, 1/8 TERMINATION BD	PART NO. 102800	REV. B
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REVISIONS					
REV	DESCRIPTION	DATE	DR	CHK	APPR
A	ERN 46 PRE-PRODUCTION RELEASE	10/70	RAS	JAN	1/17
B	ERN 4-YR PRODUCTION RELEASE	10/70	RAS	JAN	1/17
C	ECN 7331	1/71	NLS	ROD	1/71
D	ECN 7841	1/71	NV	LEW	1/71
	ECN 9712	7/71	OMP	JY	7/71

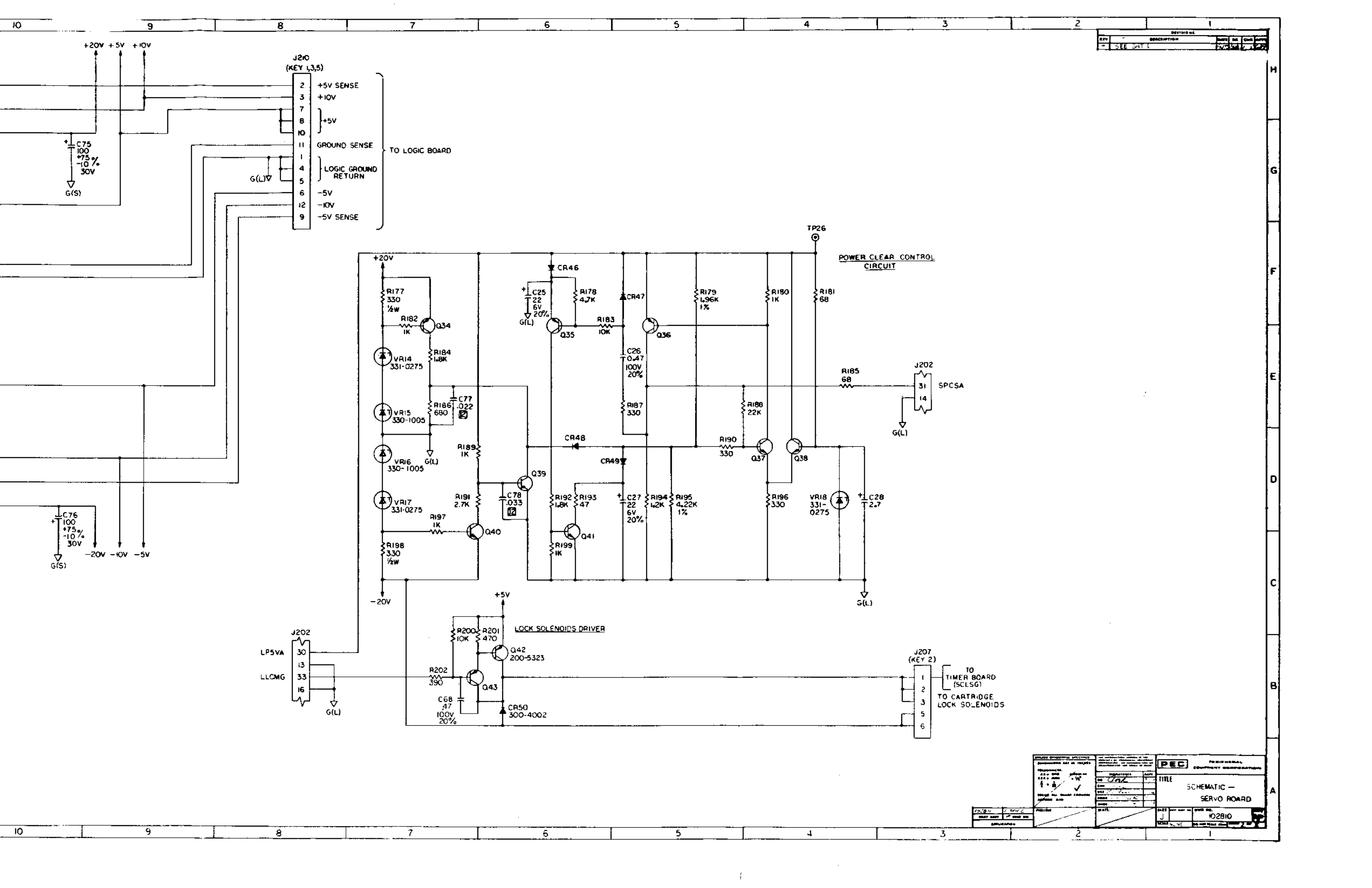


FOR ASSEMBLY VERSION INFORMATION SEE SCHEMATIC 102800.
 FOR LIST OF MATERIALS SEE LM 102801 AND APPLICABLE DASH NO.
 PART NO. 102801-03 REV C

- 4 THIS ASSY SHALL BE MADE FROM PROCESS BOARD 102802-01 REV E AND SUBSEQUENT.
 - 3 RUBBER STAMP ASSY PART NO. 102801 INCLUDING VERSION NO. AND VERSION ISSUE LETTER NEAR SIDE ORIENTED AS SHOWN.
2. ASSEMBLE PER STANDARD MFG METHODS.
 1. REFERENCE DRAWING SCHEMATIC 102800.
- NOTES: UNLESS OTHERWISE SPECIFIED:

<small>The information herein is the property of PERTEC CORPORATION. Its use is limited to the specific application for which it was prepared. It shall be returned, destroyed, or not be disseminated, for procurement or manufacturing purposes, without specific written approval of PERTEC.</small>		SIGNATURES DR: <i>R. Long</i> CHK: <i>Chapman</i> DES: _____ ENGR: EULZE PROJ ENGR: <i>J. J. J.</i>		DATE 6-22-70 5-22-70
DIMENSIONS ARE IN INCHES TOLERANCES: .XIN ± _____ ANGULAR X ± _____ Y ± _____ UNLESS OTHERWISE SPECIFIED APPROXIMATE		PERTEC PERIPHERAL EQUIPMENT TITLE PC8A I/O TERMINATION BOARD		
FINISH: _____ MATL: _____	SIZE: D CODE IDENT NO: _____ SCALE: _____	DWG NO: 102801 DO NOT SCALE DWG	REV: D	SHEET: 1

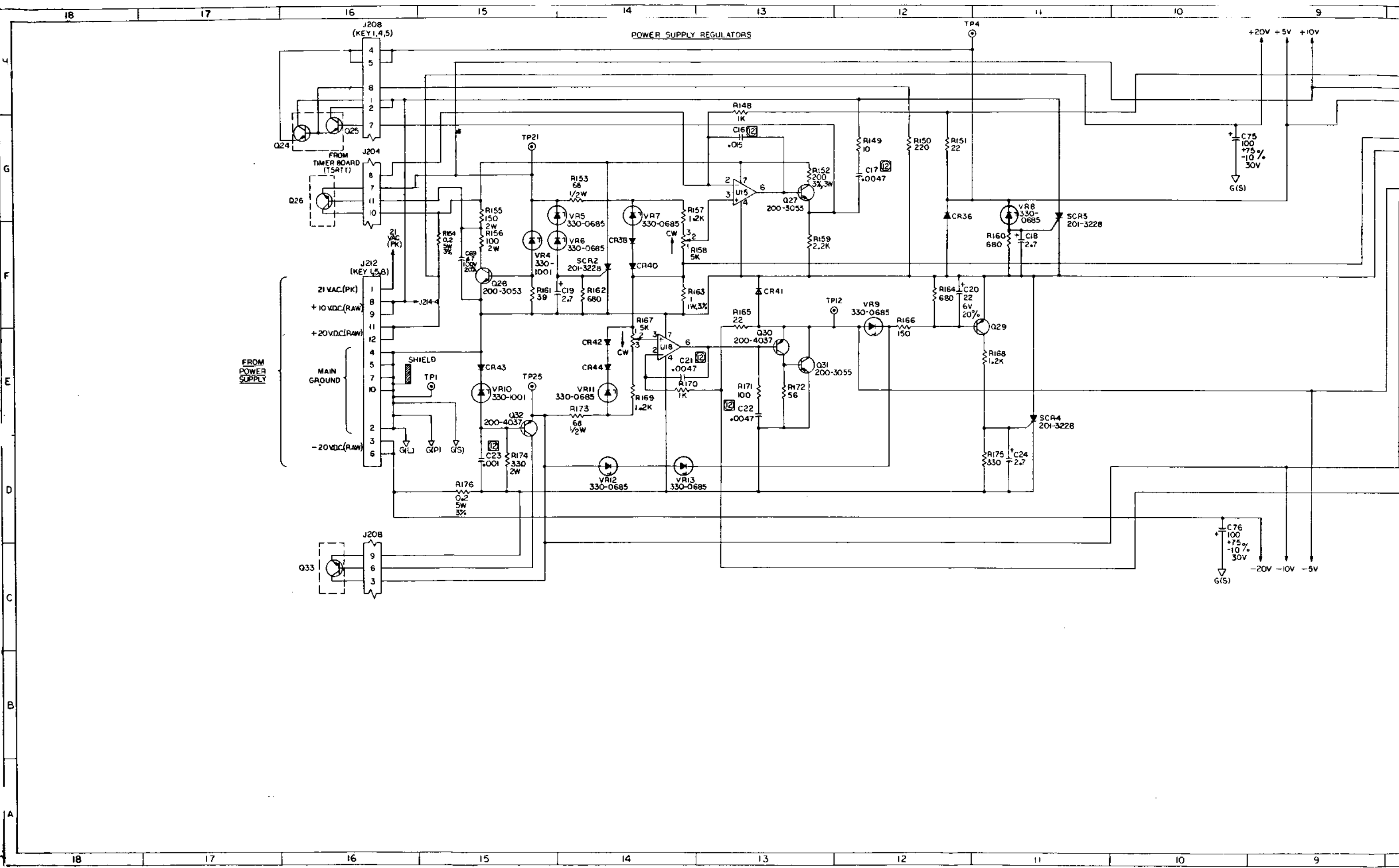
03000
NEXT ASSY: 102801
APPLICATION: _____

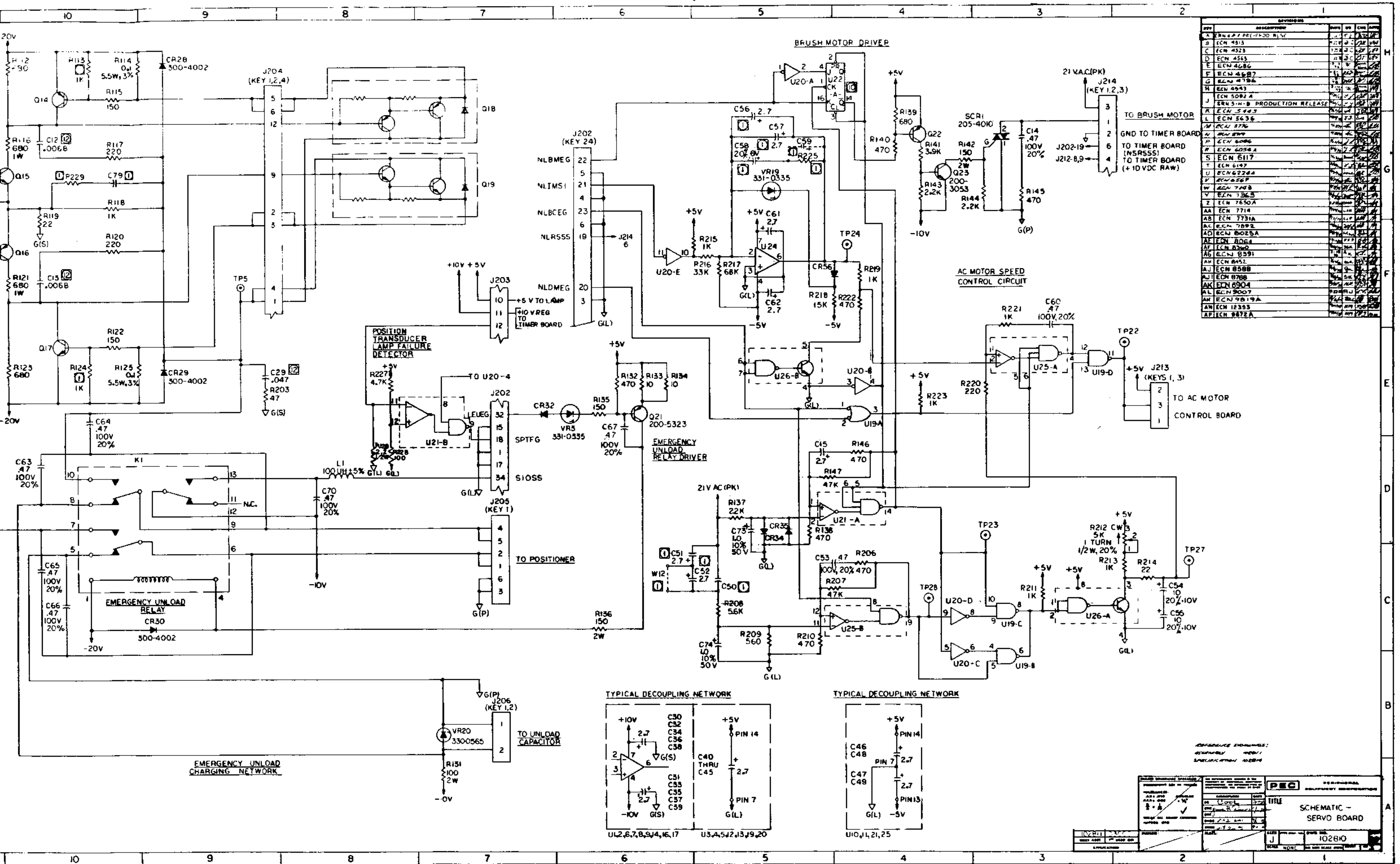


REV	DESCRIPTION	DATE	BY	CHK	APP
1	SEE INT				

DESIGN APPROVED SPECIFIED		DESIGNED BY		CHECKED BY		DATE	
APPROVED	DATE	DESIGNED	DATE	CHECKED	DATE	DATE	

PEC		PROJECT INFORMATION	
TITLE	SCHEMATIC -	DATE	
	SERVO BOARD	DATE	
REV	J	DATE	102810

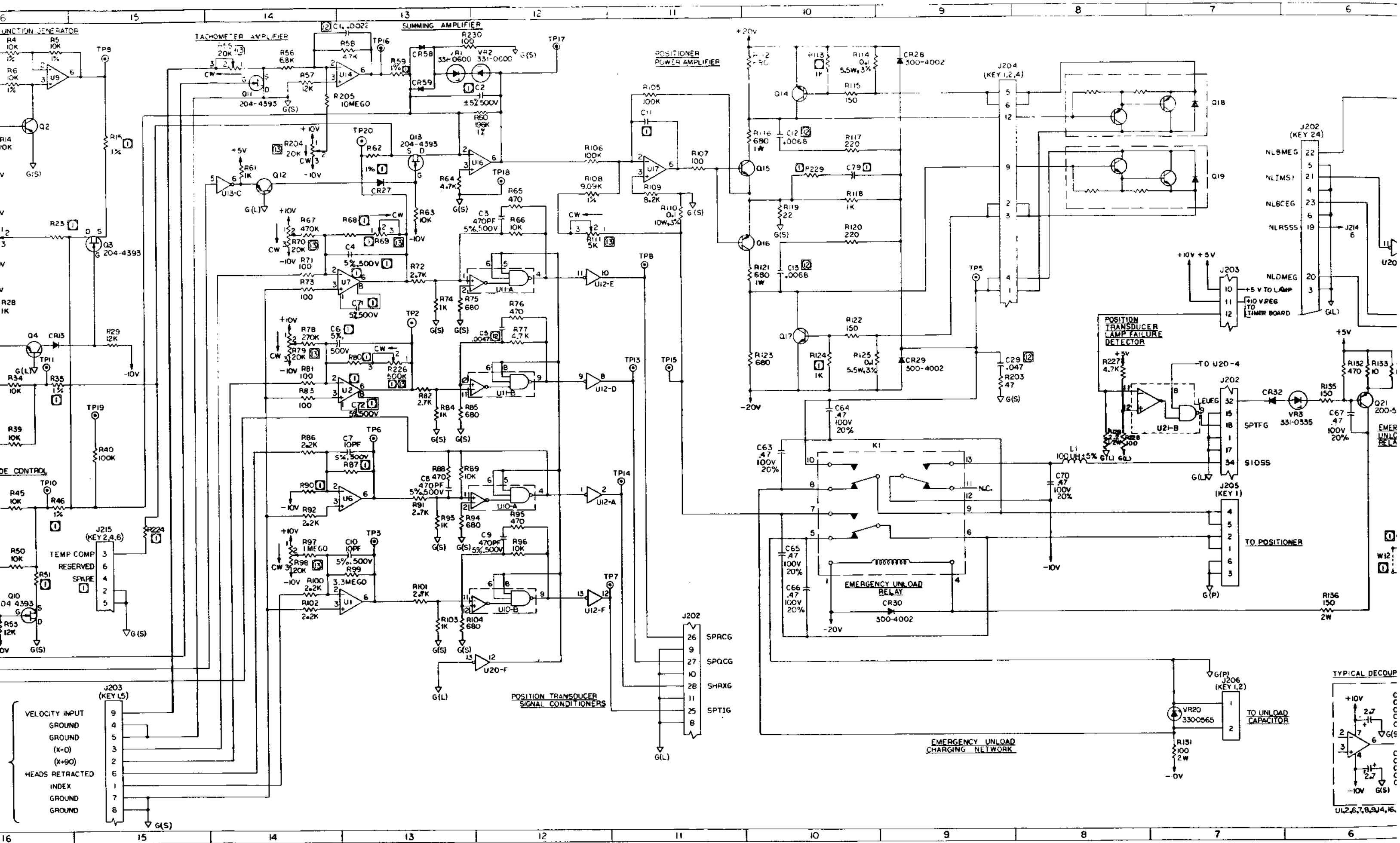




REFERENCE DRAWINGS:
 DRAWING NO. 10280
 SPECIFICATION 10280

DATE	BY	CHKD	APP'D	TITLE
11/22/60	J	H	J	SCHEMATIC - SERVO BOARD

10280



FUNCTION GENERATOR

TACHOMETER AMPLIFIER

SUMMING AMPLIFIER

POSITIONER POWER AMPLIFIER

EMERGENCY UNLOAD RELAY

POSITION TRANSDUCER LAMP FAILURE DETECTOR

VELOCITY INPUT

HEADS RETRACTED

INDEX

GROUND

GROUND

(x=0)

(x=90)

TEMP COMP

RESERVED

SPARE

SPRCG

SPOCG

SHRXG

SPT16

SPRFG

SIOSS

TO POSITIONER

TO UNLOAD CAPACITOR

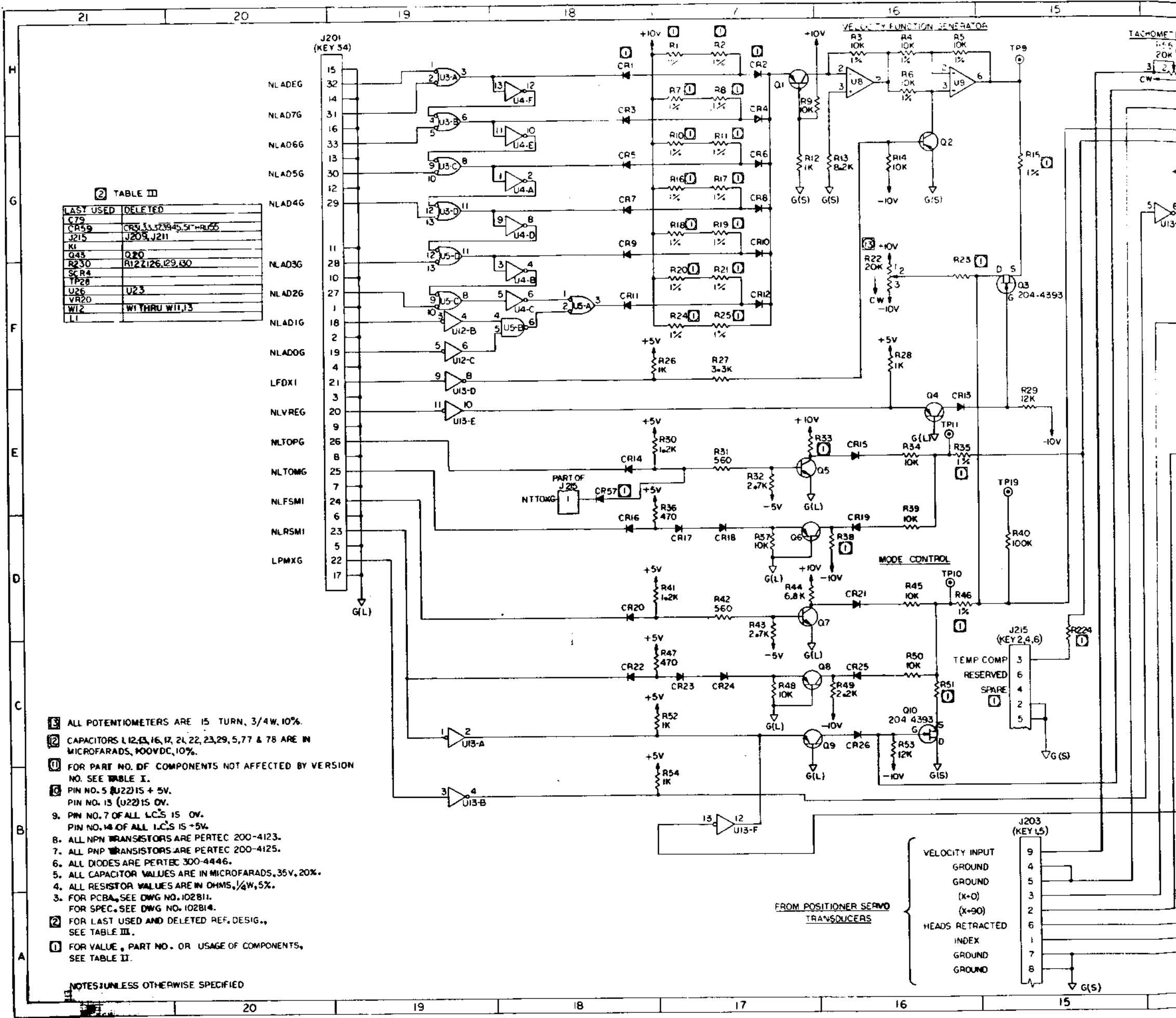
TYPICAL DECOUP

TABLE III

LAST USED	DELETED
C79	
CR59	CR33, CR45, CR51, CR55
J215	J209, J211
K1	
Q45	Q20
R230	R122, R26, R29, R30
SCR4	
TP28	
U26	U23
VR20	
W12	W11, W13
L1	

- ③ ALL POTENTIOMETERS ARE 15 TURN, 3/4W, 10%.
- ② CAPACITORS 1, 12, 13, 16, 17, 21, 22, 23, 29, 5, 77 & 78 ARE IN MICROFARADS, 500VDC, 10%.
- ① FOR PART NO. OF COMPONENTS NOT AFFECTED BY VERSION NO. SEE TABLE I.
- ④ PIN NO. 5 (U22) IS +5V.
PIN NO. 13 (U22) IS OV.
- ⑤ PIN NO. 7 OF ALL L.C.S IS OV.
PIN NO. 14 OF ALL L.C.S IS +5V.
- ⑧ ALL NPN TRANSISTORS ARE PERTEC 200-4123.
- ⑦ ALL PNP TRANSISTORS ARE PERTEC 200-4125.
- ⑥ ALL DIODES ARE PERTEC 300-4446.
- ⑤ ALL CAPACITOR VALUES ARE IN MICROFARADS, 35V, 20%.
- ④ ALL RESISTOR VALUES ARE IN OHMS, 1/4W, 5%.
- ③ FOR PCBAs, SEE DWG NO. 102B11.
FOR SPEC. SEE DWG NO. 102B14.
- ② FOR LAST USED AND DELETED REF. DESIG., SEE TABLE III.
- ① FOR VALUE, PART NO., OR USAGE OF COMPONENTS, SEE TABLE II.

NOTES: UNLESS OTHERWISE SPECIFIED



REVISIONS			
REV	DESCRIPTION	DATE	BY
1	SEE SMT 1		

TABLE II

C11	CRI	CR2	RI	R2	R7	R8	R10	R11	R16	R17	R18	R19	R20	R21	R24	R25	R113	R124	C50	C51	C52	C56	C57	C58	C59	W12	C4	C6	R23	R35	R46	R51	R62	R68, R80	C79	R229
OMIT	OMIT	OMIT	OMIT	OMIT	51.1K	2.5K	56.2K	3.83K	82.5K	2.61K	82.5K	2.61K	121K	9.09K	196K	75K	1K	1K	OMIT	2.7	2.7	2.7	2.7	22	OMIT	OMIT	47 PF	47 PF	820K	422K	61.9K	220	287K	56K	OMIT	OMIT
OMIT	USE	USE	51.1K	3.16K	61.9K	237	82.5K	4.64K	121K	3.16K	162K	12.1K	196K	26.1K	422K	75K	1K	1K	OMIT	2.7	2.7	2.7	2.7	22	OMIT	OMIT	5PF	5PF	820K	1.5M	100K	330	562K	100K	OMIT	OMIT
300-4446	300-4446	300-4446	104-5112	104-3161	104-6192	104-2370	104-8252	104-4641	104-1213	104-3161	104-1623	104-1212	104-1963	104-2612	104-4223	104-7502	100-1025	100-1025		132-2752	132-2752	132-2752	132-2752	132-2262			130-1505	130-1505	100-8245	104-1504	104-1003	100-3315	104-5623	100-1045		
OMIT	OMIT	OMIT	OMIT	OMIT	51.1K	2.15K	56.2K	3.83K	82.5K	2.61K	82.5K	2.61K	121K	9.09K	196K	75K	1K	1K	OMIT	2.7	2.7	2.7	2.7	22	OMIT	OMIT	47 PF	47 PF	820K	422K	61.9K	220	287K	56K	OMIT	OMIT
OMIT	USE	USE	51.1K	3.16K	61.9K	237	82.5K	4.64K	121K	3.16K	162K	12.1K	196K	26.1K	422K	75K	1K	1K	OMIT	2.7	2.7	2.7	2.7	22	OMIT	OMIT	5PF	5PF	820K	1.5M	100K	330	562K	100K	OMIT	OMIT
300-4446	300-4446	300-4446	104-5112	104-3161	104-6192	104-2370	104-8252	104-4641	104-1213	104-3161	104-1623	104-1212	104-1963	104-2612	104-4223	104-7502	100-1025	100-1025		132-2752	132-2752	132-2752	132-2752	132-2262			130-1505	130-1505	100-8245	104-1504	104-1003	100-3315	104-5623	100-1045		
OMIT	USE	USE	51.1K	3.16K	61.9K	237	82.5K	4.64K	121K	3.16K	162K	12.1K	196K	26.1K	422K	75K	1K	1K	OMIT	2.7	2.7	2.7	2.7	22	OMIT	OMIT	5PF	5PF	820K	1.5M	100K	330	562K	100K	OMIT	OMIT
300-4446	300-4446	300-4446	104-5112	104-3161	104-6192	104-2370	104-8252	104-4641	104-1213	104-3161	104-1623	104-1212	104-1963	104-2612	104-4223	104-7502	100-1025	100-1025		132-2752	132-2752	132-2752	132-2752	132-2262			130-1505	130-1505	100-8245	104-1504	104-1003	100-3315	104-5623	100-1045		
OMIT	USE	USE	51.1K	3.16K	61.9K	237	82.5K	4.64K	121K	3.16K	162K	12.1K	196K	26.1K	422K	75K	1K	1K	OMIT	2.7	2.7	2.7	2.7	22	OMIT	OMIT	5PF	5PF	820K	1.5M	100K	330	562K	100K	OMIT	OMIT
300-4446	300-4446	300-4446	104-5112	104-3161	104-6192	104-2370	104-8252	104-4641	104-1213	104-3161	104-1623	104-1212	104-1963	104-2612	104-4223	104-7502	100-1025	100-1025		132-2752	132-2752	132-2752	132-2752	132-2262			130-1505	130-1505	100-8245	104-1504	104-1003	100-3315	104-5623	100-1045		

R224	C71,72	U2,7	J215	R87	R90	R33	R38	R226	R225	R15,59	CR57
OMIT	OMIT	741 OP-AMP	OMIT	2.2MEGO	2.2MEGO	2.7K	2.2K	500K	3.3K	6.81K	OMIT
		400-2741		100-2255	100-2255	100-2725	100-2225	121-5040	100-3325	104-6191	
220K	OMIT	318 OP-AMP	USE	1.0MEGO	680K	12K	12K	500K	3.3K	6.19K	OMIT
00-2245		400-0318		100-1055	100-6845	100-1235	100-1235	121-5040	100-3325	104-6191	
OMIT	OMIT	741 OP-AMP	OMIT	2.2MEGO	2.2MEGO	2.7K	2.2K	500K	3.3K	6.81K	OMIT
		400-2741		100-2255	100-2255	100-2725	100-2225	121-5040	100-3325	104-6191	
220K	OMIT	318 OP-AMP	USE	1.0MEGO	680K	12K	12K	500K	3.3K	6.19K	OMIT
00-2245		400-0318		100-1055	100-6845	100-1235	100-1235	121-5040	100-3325	104-6191	
220K	OMIT	318 OP-AMP	USE	1.0MEGO	680K	12K	12K	500K	3.3K	6.19K	USE
00-2245		400-0318		100-1055	100-6845	100-1235	100-1235	121-5040	100-3325	104-6191	300-4446
220K	OMIT	318 OP-AMP	USE	1.0MEGO	680K	12K	12K	500K	3.3K	6.19K	USE
00-2245		400-0318		100-1055	100-6845	100-1235	100-1235	121-5040	100-3325	104-6191	300-4446

102811	D5000	DATE	10/28/60
APPLICATOR		SIGNATURE	J. J. [Signature]
TITLE		PERTEC PERIPHERAL EQUIPMENT	
SCHEMATIC -			
SERVO BOARD			
PART NO.		102810	

H
G
F
E
D
C
B
A

TABLE I

PART NO.	REF DESIGNATION
100-1005	R133,134,149
-1015	R107,171,71, 73, 81, 83, 228, 230
-1025	R12, 26, 28, 52, 54, 61, 74, 84, 93, 103, 118, 148, 170, 180, 182, 197, 199, 211, 215, 219, 221, 223, 189, 213
-1035	R9, 14, 34, 37, 39, 45, 48, 50, 63, 66, 89, 96, 183, 200
-1045	R40, 105, 106
-1055	R97
-1225	R30, 41, 168, 194, 157, 169
-1235	R29, 53, 57
-1515	R115, 22, 35, 166
-1825	R184, 192
-2205	R119, 151, 165, 214
-2215	R117, 120, 220, 150
-2225	R, 49, 86, 92, 100, 102, 137, 143, 144, 159
-2235	R188
-3905	R161
-2725	R32, 43, 72, 82, 91, 101, 198
-5625	R208
-3315	R175, 187, 190, 196
-3325	R27
-3335	R216
-3355	R99
-3915	R202
-3925	R141
-4705	R193, 203
-4715	R36, 47, 65, 76, 88, 95, 132, 138, 145, 146, 201, 140, 206, 210, 222
-4725	R64, 78, 227, 77
-4735	R147, 207, 58
-4745	R67
-5605	R172
-5615	R31, 42, 209
-6805	R181, 185
-6815	R75, 85, 94, 104, 112, 23, 160, 162, 164, 186, 139
-8225	R13, 109
-1065	R205
-2745	R78
-1535	R218
-6835	R217
100-6825	R56, 44
101-0225	R128
101-6805	R153, 173
101-3315	R177, 198
102-6815	R116, 121
103-1015	R131, 156
105-1515	R138, 155, 142
103-3315	R174

TABLE I

PART NO.	REF DESIGNATION
104-1002	R5, 4, 5, 6
-1961	R179
-1963	R60
-4221	R195
104-9091	R108
108-2013	R152
109-0002	R154, 176
109-0003	R114, 125
110-0011	R110
113-0103	R163
121-2030	R22, 55, 70, 79, 98, 204
121-5020	R111, 158, 167
123-5020	R212
130-1005	C7, 10
130-4715	C3, 8, 9
131-2230	C77
131-3330	C78
131-1020	C23
-2220	C1
-4720	C17, 21, 22, 5
-4730	C29
131-6820	C12, 13
131-1530	C16
132-2262	C20, 25, 27
132-2752	C15, 18, 19, 24, 28, 30 THRU 49, 61, 62
132-1062	C54, 55
135-4742	C14, 26, 53, 60, 63 THRU 70
139-1051	C73, 74
142-1070	C75, 76
200-3053	Q23, 27, 28
-3055	Q31
-4037	Q30, 32
-4123	Q5, 7, 5, 17, 37 THRU 41
-4125	Q1, 2, 4, 6, 8, 9, 12, 14, 16, 22, 29, 34, 35, 36, 43
200-5323	Q21, 42
201-3228	SCR2, 3, 4

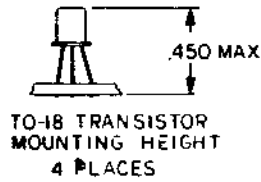
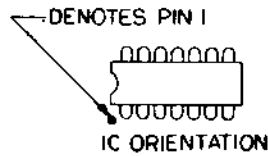
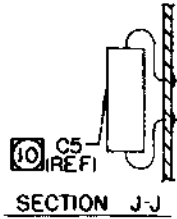
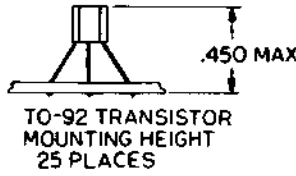
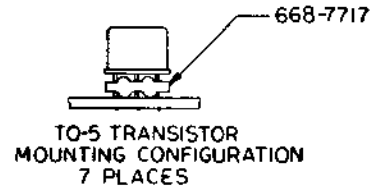
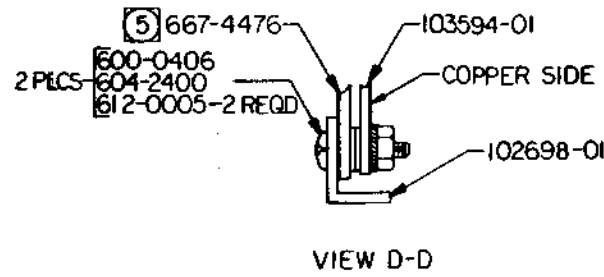
TABLE I

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300-4002	CR28-30, 50
300-4446	CR3 THRU 27, 32, 34, 35, 36, 58, 40 THRU 44, 46 THRU 49, 56, 58, 59
330-0565	VR20
330-0685	VR5 THRU 9, 11 THRU 13
330-1005	VR15, 16
330-1001	VR4, 10
331-0275	VR18, 14, 17
331-0385	VR3, 19
331-0600	VR1, 2
400-2741	U1, 6, 8, 9, 14 THRU 18, 24
502-243	K1
515-1015	L1
700-5107	U10, 1, 21, 25
-7400	U3, 5
-7404	U4, 2, 20
-7405	U15
-7438	U19
-7476	U22
700-7545	U26

TABLE I

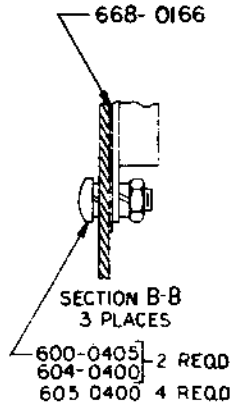
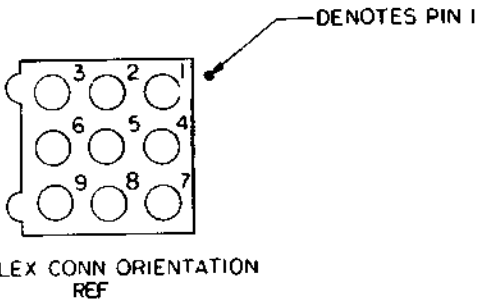
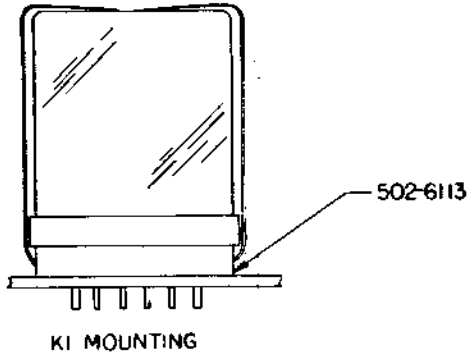
ASSEMBLY 102BII DASH NO.	VERSION CHARACTERISTIC			C2	C11	CR1	CR2	R1	R2	R7	RB
	100 TPI	200 TPI	+5V TIMER								
-01	X			VALUE OMIT	OMIT	OMIT	OMIT	OMIT	OMIT	51.1K	2.15K
-02		X		VALUE 220PF	OMIT	USE	USE	51.1K	3.16K	61.9K	237
-31	X		X	VALUE OMIT	OMIT	OMIT	OMIT	OMIT	OMIT	51.1K	2.15K
-32		X	X	VALUE 220 PF	OMIT	USE	USE	51.1K	3.16K	61.9K	237
-04		X		VALUE 220PF	OMIT	USE	USE	51.1K	3.16K	61.9K	237
-34		X	X	VALUE 220PF	OMIT	USE	USE	51.1K	3.16K	61.9K	237

ASSEMBLY 102BII DASH NO.	VERSION CHARACTERISTIC			R69	R224	C71, 72	U2, 7	J215	R87	R90
	100 TPI	200 TPI	+5V TIMER							
-01	X			VALUE 500K	OMIT	OMIT	741 OP-AMP	OMIT	2.2MEGO	2.2MEGO
-02		X		VALUE 500K	220K	OMIT	318 OP-AMP	USE	1.0MEGO	680K
-31	X		X	VALUE 500K	OMIT	OMIT	741 OP-AMP	OMIT	2.2MEGO	2.2MEGO
-32		X	X	VALUE 500K	220K	OMIT	318 OP-AMP	USE	1.0MEGO	680K
-04		X		VALUE 500K	220K	OMIT	318 OP-AMP	USE	1.0MEGO	680K
-34		X	X	VALUE 500K	220K	OMIT	318 OP-AMP	USE	1.0MEGO	680K



600-0405
604-2400 } 2 REQD

102681-01

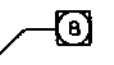
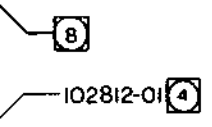
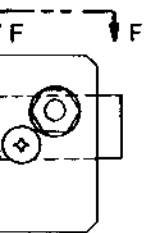


FOR ASSY VERSION INFORMATION SEE SCHEMATIC 102810
FOR LIST OF MATERIALS SEE LM 102811 AND APPLICABLE
DASH NO.

PART NO 102811 02 REV AK

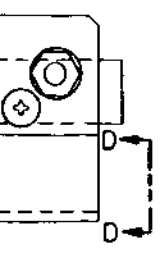
REVISIONS				
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B	ECN 4224A	7/21/78	FR	
C	ECN 4486	7/21/78	FR	
D	ECN 4687	7/21/78	FR	
E	ECN 5092A	7/21/78	FR	
F	ERN 5-H-B PRODUCTION RELEASE	7/21/78	FR	
G	ECN 5159	7/21/78	FR	
H	ECN 5417A	7/21/78	FR	
I	ECN 5457	7/21/78	FR	
J	ECN 5776	7/21/78	FR	
K	ECN 5719	7/21/78	FR	
L	ECN 6086	7/21/78	FR	
M	ECN 6054A	7/21/78	FR	
N	ECN 6147	7/21/78	FR	
O	ECN 6224 B	7/21/78	FR	
P	ECN 6369	7/21/78	FR	
Q	ECN 6664	7/21/78	FR	
R	ECN 7714	7/21/78	FR	
S	ECN 7731A	7/21/78	FR	
T	ECN 7892	7/21/78	FR	
U	ECN 8025A	7/21/78	FR	
V	ECN 8064	7/21/78	FR	
W	ECN 8360	7/21/78	FR	
X	ECN 8391	7/21/78	FR	
Y	ECN 8588	7/21/78	FR	
Z	ECN 9819A	7/21/78	FR	
AA	ECN 11166	7/21/78	FR	
AB	ECN 11351	7/21/78	FR	
AC	ECN 9872A	7/21/78	FR	
AD	ECN 12891	7/21/78	FR	
AE				
AF				

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		DR	DATE	TITLE		
TOLERANCES:	ANGULAR	CHKD	DATE	PCBA		
.001 ±	±.001	ENGR	DATE	SERVO BOARD		
.002 ±	±.002	PROJ ENGR	DATE	SIZE CODE IDENTIFY DWG NO. REV		
.005 ±	±.005			E	102811	AF
BREAK ALL SHARP CORNERS APPROX .010	FINISH:	MATERIAL		SCALE 2/1 DO NOT SCALE DWG SHEET 1 OF 1		
TOP BILL 03000	APPLY					
NEXT ASSY 1ST USED ON						
APPLICATION						

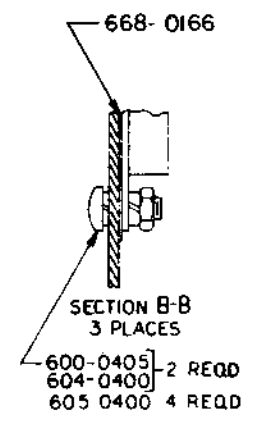
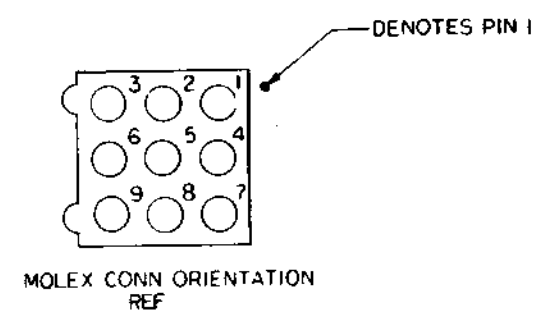
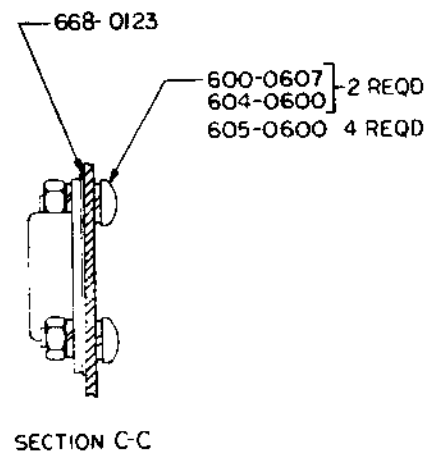
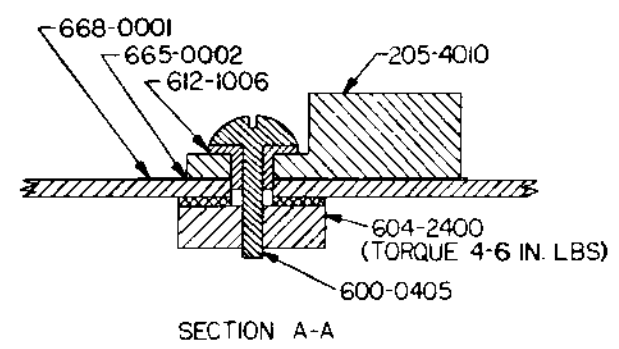
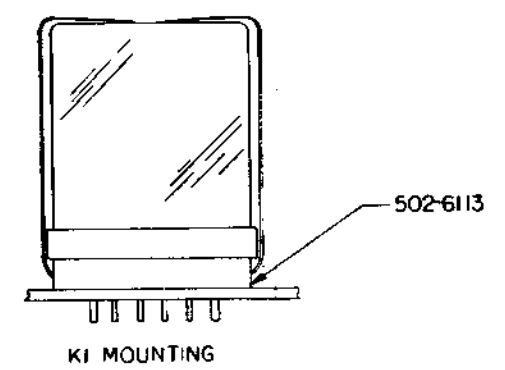
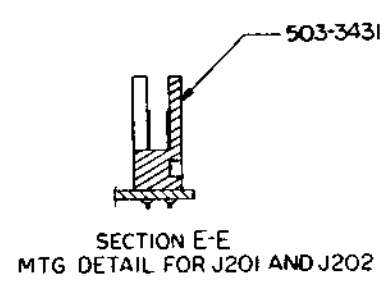
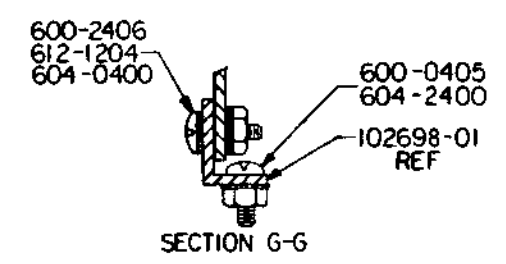
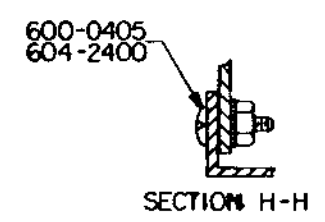
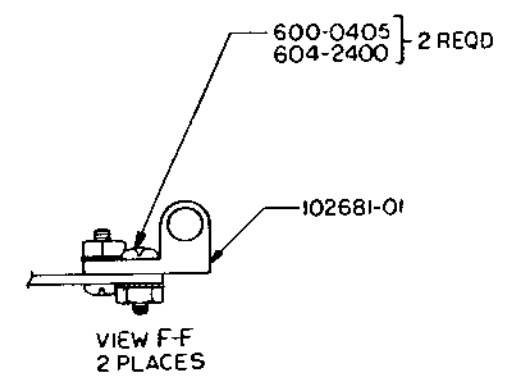
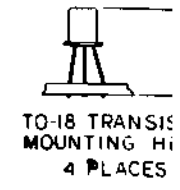
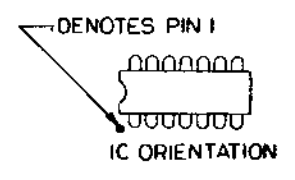
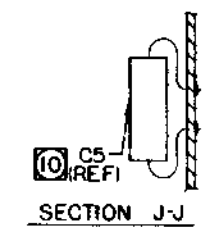
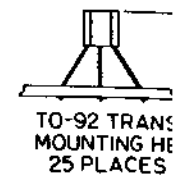
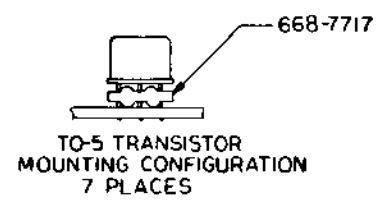
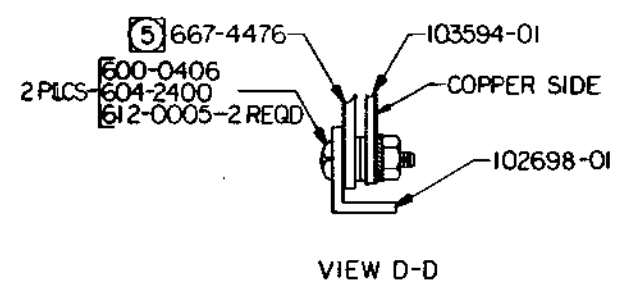


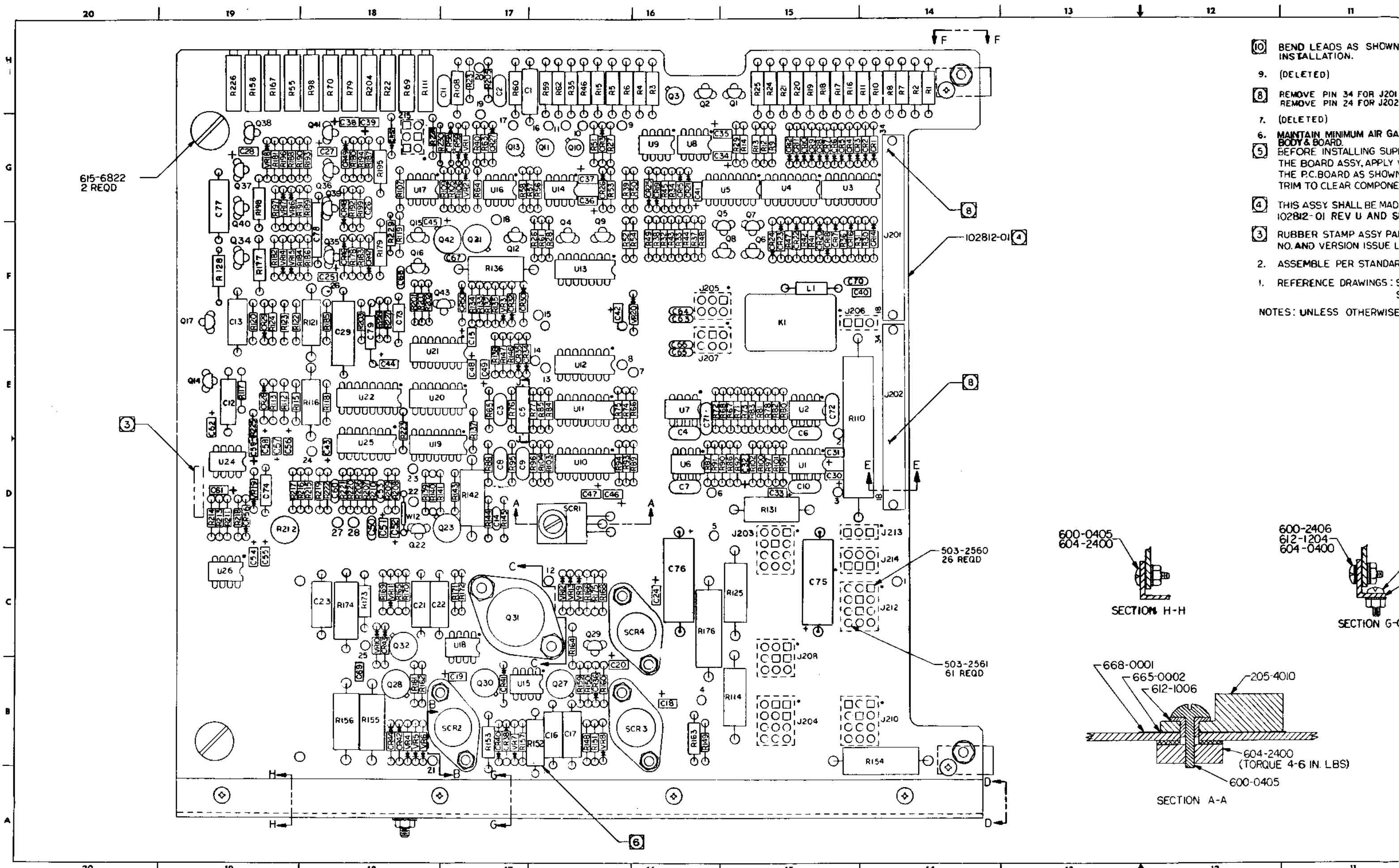
503-2560
26 REQD

503-2561
61 REQD

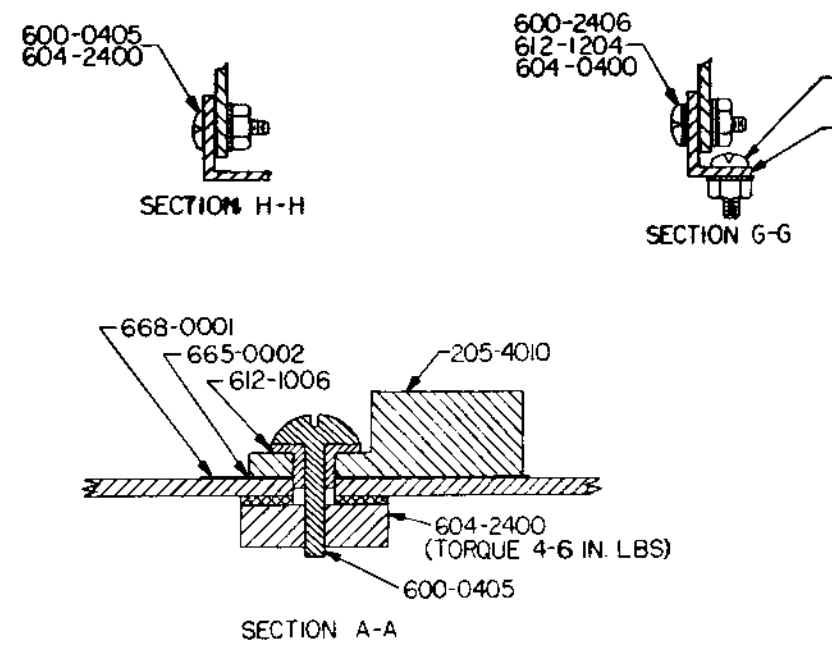


- 10 BEND LEADS AS SHOWN PRIOR TO COMPONENT INSTALLATION.
 - 9. (DELETED)
 - 8 REMOVE PIN 34 FOR J201 CONNECTOR KEYING AND REMOVE PIN 24 FOR J202 CONNECTOR KEYING.
 - 7. (DELETED)
 - 6. MAINTAIN MINIMUM AIR GAP OF .10 BETWEEN COMPONENT BODY & BOARD.
 - 5 BEFORE INSTALLING SUPPORT ANGLE, 102698-01 TO THE BOARD ASSY, APPLY VINYL TAPE 667-4476 TO THE P.C. BOARD AS SHOWN IN VIEW D-D. TRIM TO CLEAR COMPONENTS AS REQD.
 - 4 THIS ASSY SHALL BE MADE FROM PROCESS BOARD 102812-01 REV U AND SUBSEQUENT.
 - 3 RUBBER STAMP ASSY PART NO. INCLUDING VERSION NO. AND VERSION ISSUE LETTER.
 - 2. ASSEMBLE PER STANDARD MFG METHODS.
 - 1. REFERENCE DRAWINGS: SCHEMATIC 102810 SPECIFICATION 102814
- NOTES: UNLESS OTHERWISE SPECIFIED.





- 10 BEND LEADS AS SHOWN PRIOR TO INSTALLATION.
 - 9. (DELETED)
 - 8 REMOVE PIN 34 FOR J201 CONN REMOVE PIN 24 FOR J202 CONN
 - 7. (DELETED)
 - 6. MAINTAIN MINIMUM AIR GAP OF .010" BETWEEN BOARD BODY & BOARD. BEFORE INSTALLING SUPPORT THE BOARD ASSY, APPLY VINYL TAPE TO THE P.C. BOARD AS SHOWN IN DRAWING TRIM TO CLEAR COMPONENTS & LEADS.
 - 4 THIS ASSY SHALL BE MADE FROM 102812-01 REV U AND SUBSEQUENT REVISIONS.
 - 3 RUBBER STAMP ASSY PART NO. 600-0405 AND VERSION ISSUE LETTER.
 - 2. ASSEMBLE PER STANDARD MFG PRACTICES.
 - 1. REFERENCE DRAWINGS: SCHEMATIC, MECHANICAL, ELECTRICAL SPECIFICATIONS.
- NOTES: UNLESS OTHERWISE SPECIFIED.



615-6822
2 REQD

503-2560
26 REQD

503-2561
61 REQD

604-2400
(TORQUE 4-6 IN. LBS)

SEE SHEET 6 FOR TABLE II (CONT)

TABLE II

U402	W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12	W13	W14	W15	W16	W17	W18	W19	W20	W21	ASSY
P/N 700-7483	P/N 100373-02	P/N 103596-01	P/N 100373-03	P/N 103596-01																		VERSION
USE	OMIT	OMIT	OMIT	USE	USE	OMIT	OMIT	USE	OMIT	USE	USE	OMIT	OMIT	USE	USE	OMIT	USE	OMIT	USE	OMIT	USE	NUMBER
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OMIT	USE	USE	OMIT	OMIT	OMIT	USE	USE	OMIT	OMIT	USE	OMIT	USE	USE	OMIT	OMIT	USE	USE	OMIT	USE	OMIT	USE	-52
OMIT	USE	USE	OMIT	OMIT	OMIT	USE	USE	OMIT	OMIT	USE	OMIT	USE	USE	OMIT	OMIT	USE	USE	OMIT	USE	OMIT	USE	-53

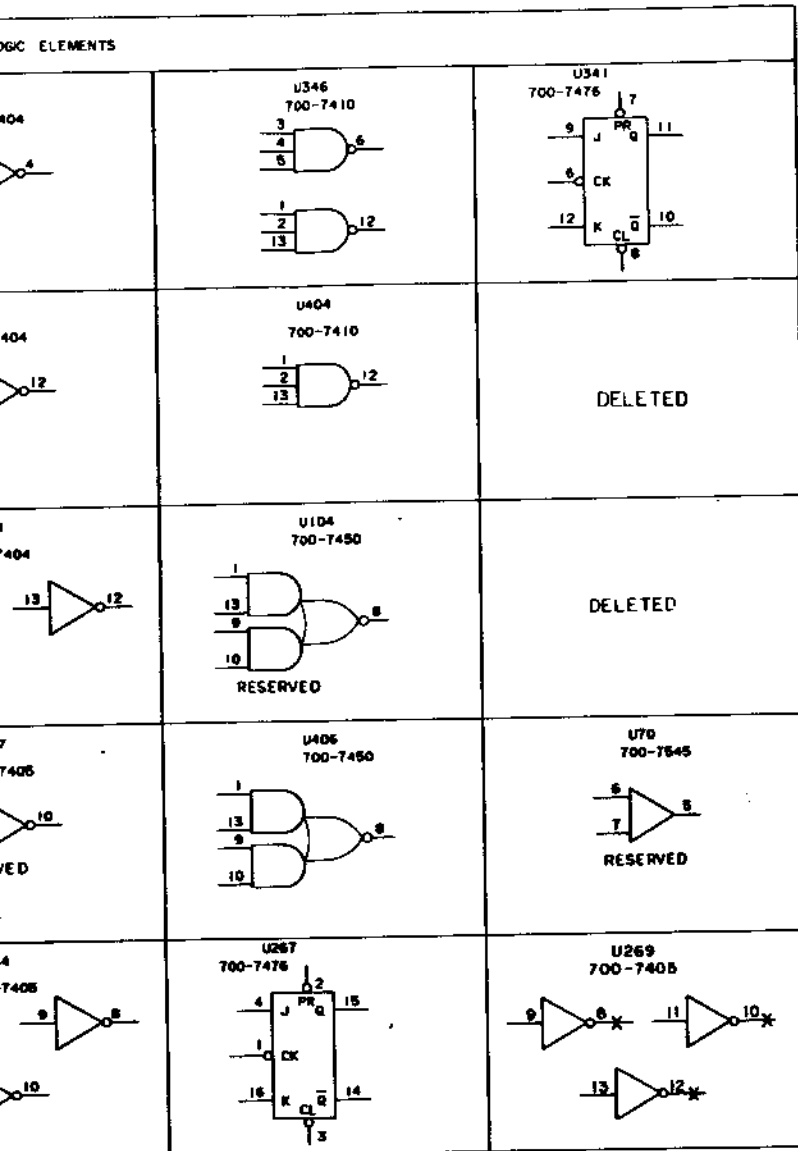
REV	DESCRIPTION	DATE	DR	CHR	APP
A	ECN 4 JT PRE PROD B, ECN 4901				
C	ECN 5047				
D	ECN 5100 REVISED (REWORKING)				
E	ECN 5199				
F	ECN 5731				
G	ECN 5981				
H	ECN 6085				
J	ECN 6250				
K	ECN 6355				
L	ECN 6850				
M	ECN 7004				
N	ECN 7445B				
O	ECN 7707B				
P	ECN 8335				
Q	ECN 8708				
R	ECN 8733A				
S	ECN 8858				
T	ECN 10166G				
U	ECN 10095				
V	ECN 11738				

- 9 IC TYPE IDENTIFICATION
 2 INPUT NANDS ARE 7400
 2 INPUT NORs ARE 7402
 HEX INVERTERS ARE 7404
 HEX INVERTERS (OPEN COLLECTOR) ARE 7405
 3 INPUT NANDS ARE 7410
 8 INPUT NANDS ARE 7430
 J-K FF ARE 7478
- 10 ALL CAPACITOR VALUES ARE IN MICROFARADS, 120%, 35V.
- 11 THESE SIGNALS AND CIRCUITS ARE CONNECTED ONLY IN THOSE VERSIONS HAVING THE SPECIAL-INTERFACE-SIGNAL OPTION.
- 12 R72 AND C78 ARE USED AND W21 OMITTED ONLY IN GROUND ISOLATION VERSIONS. SEE TABLE II FOR VERSION NUMBER. W21 MUST BE USED FOR ALL OTHER VERSIONS.
- 13 E1, E2, AND E3 ARE TEST PADS INTENDED FOR USE WITH MINIATURE OSCILLOSCOPE PROBE TIPS WHICH WILL FIT IN A .040 DIAMETER HOLE.
- 14 FOR PART NUMBER AND USAGE OF COMPONENTS AFFECTED BY VERSION NUMBER SEE TABLE II.
- 15 FOR PART NUMBER OF COMPONENTS NOT AFFECTED BY VERSION NUMBER SEE TABLE I.
2. ALL RESISTOR VALUES ARE IN OHMS, 15% 1/4W.
1. SIGNALS ARE CROSS-REFERENCED BETWEEN SHEETS AND WITHIN A SHEET BY NUMBERS APPEARING WITH THE ASSOCIATED LOGIC TERM MNEMONIC. THE FIRST NUMBER IS THE SHEET NUMBER AND THE SECOND NUMBER IS THE ZONE NUMBER. EXAMPLE: (3-12) SHEET 3 ZONE 12
- NOTES: UNLESS OTHERWISE SPECIFIED
- REFERENCE DRAWINGS:
 ASSEMBLY 102831
 SPECIFICATION 102834

102831		03000		DATE		SIGNATURES	
REV. 1		REV. 1		DATE		SIGNATURES	
APPLICATION		APPLICATION		DATE		SIGNATURES	
PERTEC PERIPHERAL EQUIPMENT				TITLE			
SCHEMATIC--				LOGIC BOARD			
SIZE		CODE IDENT NO.		DRAWING NO.		REV.	
J		102830		1		1	

SEE SHEET 6 FOR TABLE II (CONT)

TABLE II



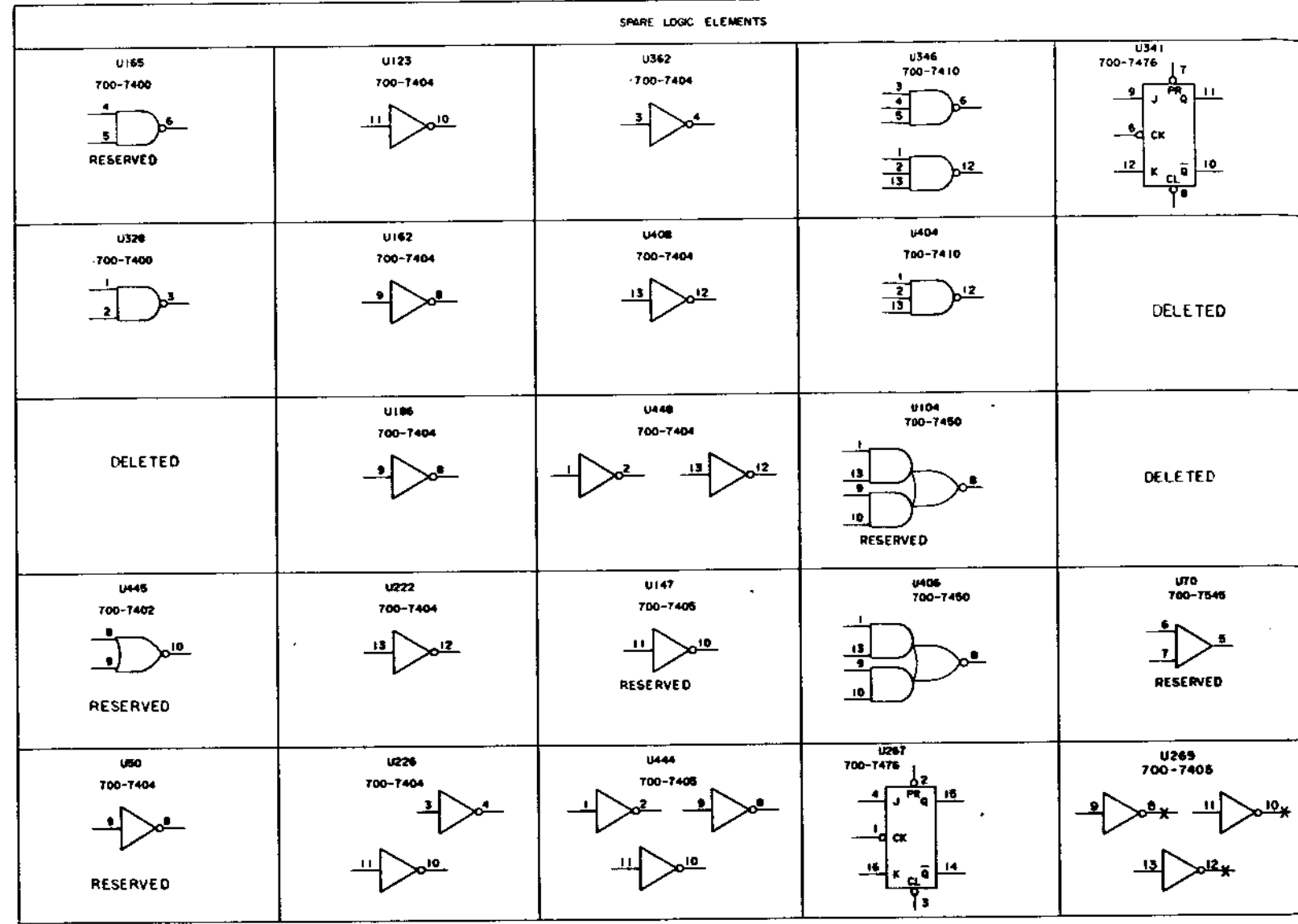
ASSY VERSION NUMBER	TRACKS PER INCH		VERSION CHARACTERISTICS											USAGE										
	100	200	INTERNAL TERMINATION VOLTAGE POWER SUPPLY	TERMINATION VOLTAGE FEED-THRU	GROUND ISOLATION	READY SIGNAL GATED BY INTERNAL TEMP GO 200 TPI ONLY	SPECIAL JUMPERS ARE SHOWN ON DWG 102851		INTERFACE SIGNAL		200TPI INTERNAL TEMP GO	+5V TIMER	W23	CRI THRU	C78	R26,26	R72	U301,322	U402	W1	W2	W3	W4	W5
							100 TPI RUN CONDITION INDICATION	SAFE COND INDICATION	100 TPI	200 TPI			P/N 103596-01	P/N 300-4002	P/N 137-2230	P/N 100-1815	P/N 101-1825	P/N 700-7419	P/N 700-7483	P/N 100373-02	P/N 103596-01	P/N 100373-03		
-01	X		X							X		OMIT	USE	OMIT	USE		OMIT	USE	USE	OMIT	OMIT	OMIT	USE	USE
-02		X	X										USE	OMIT	OMIT	USE		OMIT	USE	USE	OMIT	OMIT	USE	USE
-03	X			X						X			OMIT	OMIT	OMIT	OMIT		OMIT	USE	USE	USE	USE	USE	USE
-04		X		X									USE	USE	USE	USE		USE	USE	OMIT	OMIT	OMIT	USE	USE
-05	X		X		X					X			USE	USE	USE	USE		USE	USE	OMIT	OMIT	OMIT	USE	USE
-06		X	X										OMIT	USE	OMIT	USE		USE	USE	OMIT	OMIT	USE	USE	USE
-07	X			X						X			OMIT	OMIT	OMIT	OMIT		OMIT	USE	USE	OMIT	OMIT	USE	USE
-08		X			X								USE	USE	OMIT	USE		OMIT	USE	USE	OMIT	OMIT	USE	USE
-09	X		X					X		X			OMIT	OMIT	OMIT	OMIT		OMIT	USE	USE	OMIT	OMIT	USE	USE
-10		X	X										USE	OMIT	OMIT	OMIT		OMIT	USE	USE	OMIT	OMIT	USE	USE
-11	X			X				X		X			OMIT	USE	OMIT	USE		OMIT	USE	USE	OMIT	OMIT	USE	USE
-12		X	X										USE	USE	USE	USE		USE	USE	OMIT	OMIT	USE	USE	USE
-13	X		X					X		X			OMIT	OMIT	USE	OMIT		USE	USE	OMIT	OMIT	USE	USE	USE
-14		X	X					X		X			OMIT	OMIT	USE	OMIT		USE	USE	OMIT	OMIT	USE	USE	USE
-15	X			X				X		X			USE	OMIT	USE	OMIT		USE	USE	OMIT	OMIT	USE	USE	USE
-16		X	X					X		X			OMIT	USE	OMIT	USE		OMIT	USE	USE	OMIT	OMIT	USE	USE
-17	X		X							X			OMIT	USE	OMIT	USE		OMIT	USE	USE	OMIT	OMIT	USE	USE
-18		X	X							X	X		OMIT	OMIT	OMIT	OMIT		OMIT	USE	USE	OMIT	OMIT	USE	USE
-19	X			X									OMIT	USE	USE	USE		USE	USE	USE	OMIT	OMIT	USE	USE
-20			X					X					OMIT	USE	USE	USE		USE	USE	USE	OMIT	OMIT	USE	USE
-21	X			X									OMIT	USE	USE	USE		USE	USE	USE	OMIT	OMIT	USE	USE
-22								X		X			OMIT	OMIT	USE	OMIT		USE	USE	USE	USE	USE	USE	USE
-23	X							X		X			USE	OMIT	USE	OMIT		USE	USE	USE	USE	USE	USE	USE
-24		X																						
-25																								
-26																								
-27																								
-28																								
-29																								
-30											X		OMIT	USE	OMIT	USE		OMIT	USE	USE	OMIT	OMIT	USE	USE
-31	X		X							X	X			USE	OMIT	USE		OMIT	USE	USE	OMIT	OMIT	USE	USE
-32		X	X							X	X			OMIT	OMIT	OMIT		OMIT	USE	USE	OMIT	OMIT	USE	USE
-33	X		X							X	X			OMIT	OMIT	OMIT		OMIT	USE	USE	OMIT	OMIT	USE	USE
-34		X	X								X			USE	USE	USE		USE	USE	OMIT	OMIT	OMIT	USE	USE
-35	X		X					X		X	X			USE	USE	USE		USE	USE	OMIT	OMIT	OMIT	USE	USE
-36		X	X					X		X	X			OMIT	USE	OMIT		USE	USE	OMIT	OMIT	OMIT	USE	USE
-37	X		X					X		X	X			OMIT	USE	OMIT		USE	USE	USE	OMIT	OMIT	USE	USE
-38		X	X					X		X	X			OMIT	USE	OMIT		USE	USE	USE	OMIT	OMIT	USE	USE
-39	X		X							X	X			OMIT	USE	OMIT		OMIT	USE	USE	OMIT	OMIT	USE	USE
-40		X	X					X		X	X			USE	USE	OMIT		OMIT	USE	USE	OMIT	OMIT	USE	USE
-41	X		X					X		X	X			OMIT	OMIT	OMIT		OMIT	USE	USE	OMIT	OMIT	USE	USE
-42		X	X					X		X	X			OMIT	OMIT	OMIT		OMIT	USE	USE	OMIT	OMIT	USE	USE
-43	X		X					X		X	X			USE	USE	USE		USE	USE	USE	OMIT	OMIT	USE	USE
-44		X	X					X		X	X			OMIT	OMIT	USE		OMIT	USE	USE	OMIT	OMIT	USE	USE
-45	X		X					X		X	X			USE	OMIT	USE		USE	USE	USE	OMIT	OMIT	USE	USE
-46		X	X					X		X	X			OMIT	USE	OMIT		OMIT	USE	USE	OMIT	OMIT	USE	USE
-47	X		X							X	X			OMIT	USE	OMIT		OMIT	USE	USE	OMIT	OMIT	USE	USE
-48		X	X							X	X			OMIT	OMIT	OMIT		OMIT	USE	USE	OMIT	OMIT	USE	USE
-49	X		X								X													
-50								X		X	X			OMIT	USE	USE		USE	USE	USE	OMIT	OMIT	USE	USE
-51	X		X								X													
-52											X			OMIT	OMIT	USE		USE	USE	USE	OMIT	OMIT	USE	USE
-53	X							X		X	X			OMIT	OMIT	USE		USE	USE	USE	OMIT	OMIT	USE	USE

PROGRAMMING ARRAY LOCATION TABLE

J NUMBER	ARRAY PART NUMBER	ARRAY FUNCTIONAL DESCRIPTION
J121	103611-XX	TIME DEMULTIPLEXER SPEED OPTION
J122	103612-XX	SPEED OPTION
J123	103613-XX	SPEED OPTION
J125	103615-XX	SECTORING OPTION
J126	103616-XX	ELECTRONIC OR INDEX SECTORING
J127	103616-XX	SECTORING FOR DUAL DISK UNITS
J128	BLANK	TEST PURPOSES ONLY

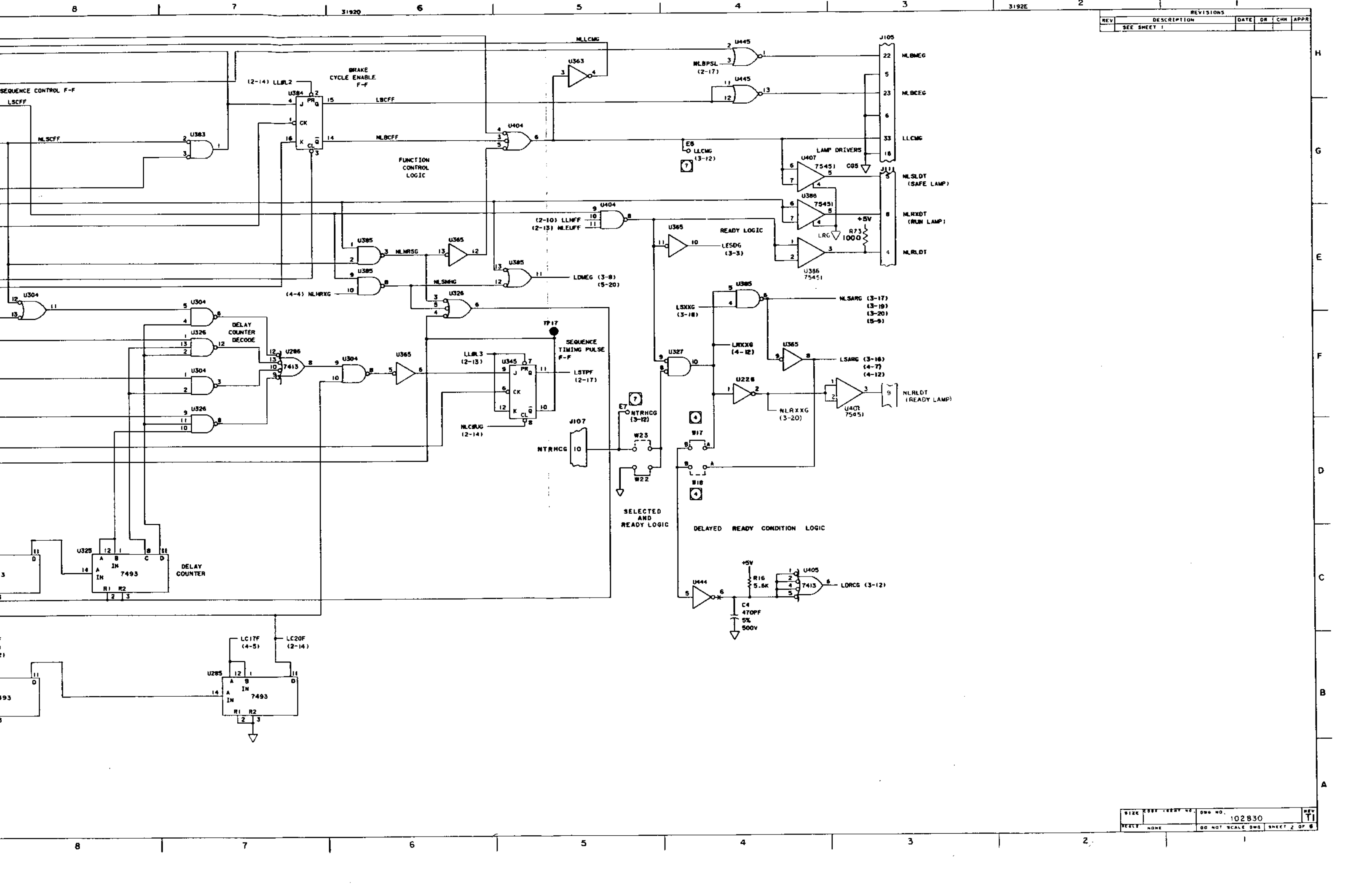
H
G
F
E
D
C
B
A

PART NO.	REF. DESIGNATION	PART NO.	REF. DESIGNATION
100-1015	R12	700-4161	U1, 41, 51, 106, U121, 124, 125, U143, 144, 145, U161, 164, 166, U181, 184, 202, U205, 221, 241, U283
100-1025	R1 THRU 9, 17 THRU 24, 35, 43, 73, 99	700-4164	U2, 22, 23, 43, 109
100-1035	R31	700-5107	U268, 409
100-1515	R9		
100-1525	R39		
100-1545	R37		
100-1825	R42		
100-2215	R14		
100-2715	R32, 38		
100-3315	R11, 40	700-7400	U49, 86, 87, 88, U165, 223, 246, 282, 304, 328, U343, 385, 403
100-3325	R33, 65		
100-4715	R27, 36	700-7402	U48, 63, 62, 122, U127, 183, 187, 263, U281, 284, 324, U327, 383, 445
100-4725	R34, 41		
100-5625	R10, 18	700-7404	U42, 50, 51, 71, U72, 81, 102, U123, 162, 189, U186, 222, 224, U226, 303, 348, U382, 363, 365, U401, 406, 423, U448
100-5805	R92, 95		
100-5815	R15		
101-6805	R44, 46	700-7405	U147, 444, 446, U447, 269
102 1015	R99		
104-2370	R13	700-7410	U107, 261, 262, U264, 266, 326, U346, 361, 404
104-5112	R28	700-7413	U286, 406
104-5113	R29, 30	700-7430	U306, 442
121 5010	R93	700-7450	U62, 84, 85, 89, U104, 105, 406
130-1005	C5	700-7476	U83, U129, 142, 163, U167, 203, 206, U242, 243, 267, U341, 344, 348, U364, 384
130-1515	C86		
130-4705	C11, 15	700-7483	U382, 421
130-4715	C1, 4	700-7486	U422, 441, 443
130-7515	C84, 85	700-7493	U225, 249, 286, U285, 308, 325
		700-7496	U101, 106, 148, U182, 244, 323, 347
		700-7419	U287, 302, 308, U321, 342, 381
131-1020	C12		
131-1030	C91, 92		
132-1062	C18, 17	700-7545	U3, 44, 45, 46, 47, U64, 65, 66, 67, U68, 69, 70, 386, U407, 424
132-2752	C6, 7, 9, 10, 13, 14, C25, 26, 30 THRU 76, C87, 88, 89, 90	700-0004	U128
135-4742	C2, 3, 6, 21, 77		
139-2262	C83		
200-3251	Q1, 2		
200-4125	Q4		
300-4446	CR7		
330 0475	VR1		
400-0318	U425		
400-2741	U168, 387, U228		
524-0002	Y1		
107-1000	R100		
107-1001	R46, 47, 81, 82, 96		
107-1980	R94		
107-2150	R89, 97		
107-3481	R77, 80		
107-4221	R78, 79		
107-4223	R86		
107-4640	R75, 76		
107-4642	R83, 84		
107-5110	R101		
107-6810	R91, 98		
107-7500	R90		
107-7502	R85		
107-9092	R87		

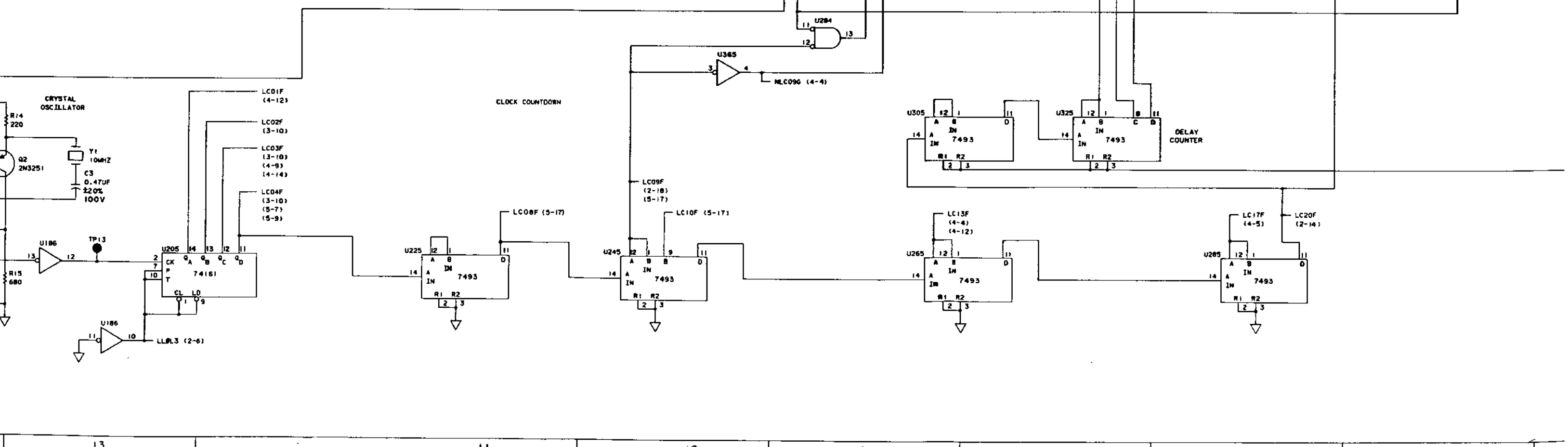
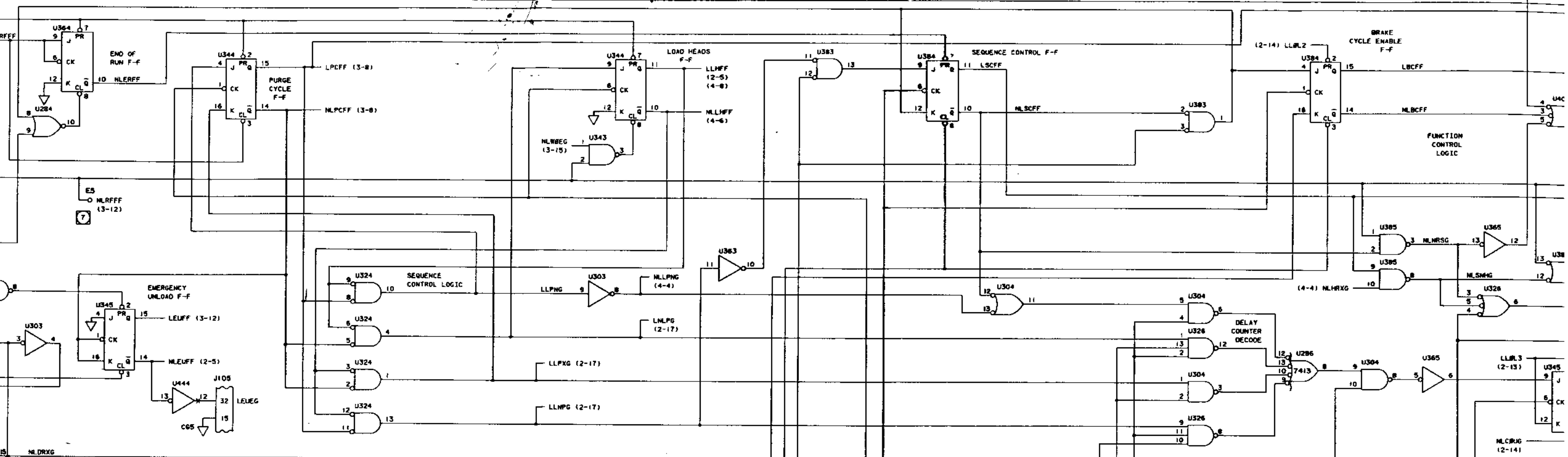


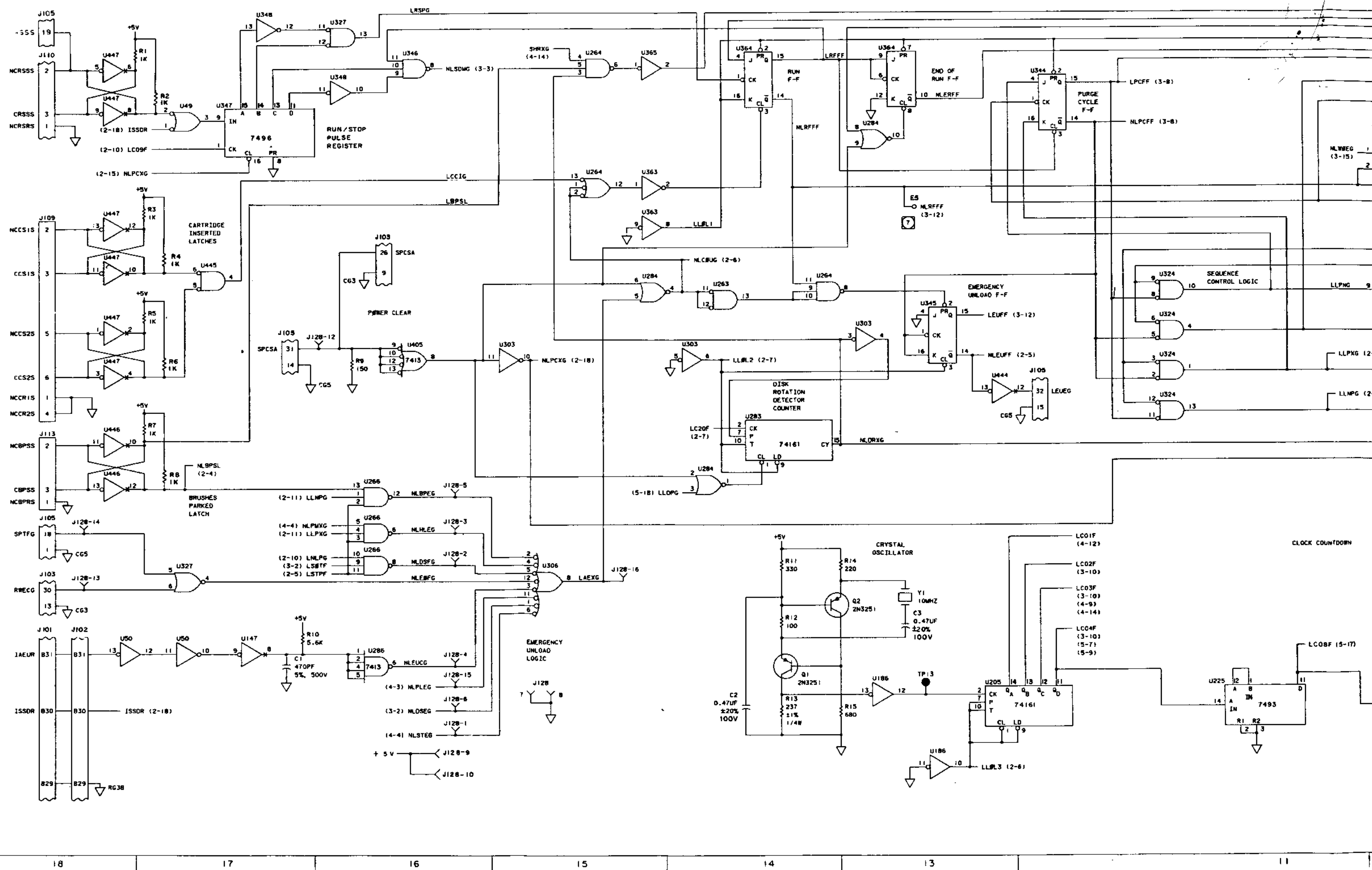
LAST USED	NOT USED	DELETED
C80		C18, 19, 20, 22, 23, 24, 27, 28, 29, 79, 80
CR7		Q3
Q4		J124
J128		R86 THRU 64, 66 THRU 71, 74
R101		TP14, 15
TP30		U227
U448	U4 THRU 21, 24 THRU 40, U52 THRU 60, 73 THRU 80, U90 THRU 100, 103, 110 THRU 120, U126, 130 THRU 141, 148 THRU 160, U169 THRU 180, 188 THRU 201, U204, 207 THRU 220, 229 THRU 240, U247 THRU 260, 270 THRU 280, U288 THRU 300, 307, 309 THRU 320, U329 THRU 340, 349 THRU 360, U366 THRU 380, 388 THRU 400, U410 THRU 420, 426 THRU 440,	
VR1		
W27		
Y1		

J NUMBER	ARRAY PART NUMBER	ARRAY FUNCTIONAL DESCRIPTION
J121	103611-XX	TIME DEMULTIPLEXER SPEED OPTION
J122	103612-XX	SPEED OPTION
J123	103613-XX	SPEED OPTION
J125	103615-XX	SECTORING OPTION
J126	103616-XX	ELECTRONIC OR INDEX SECTORING
J127	103618-XX	SECTORING FOR DUAL DISK UNITS
J128	BLANK	TEST PURPOSES ONLY

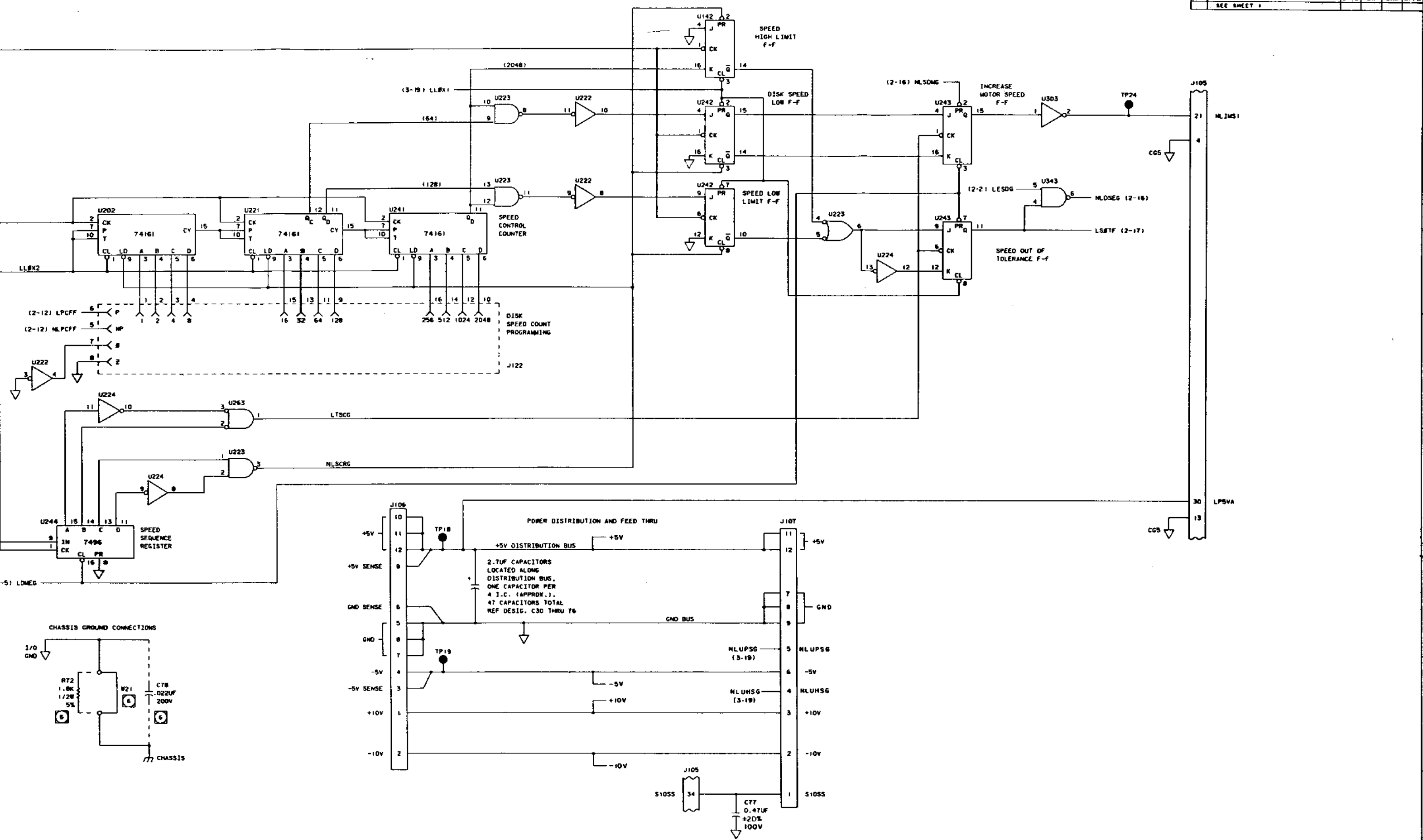


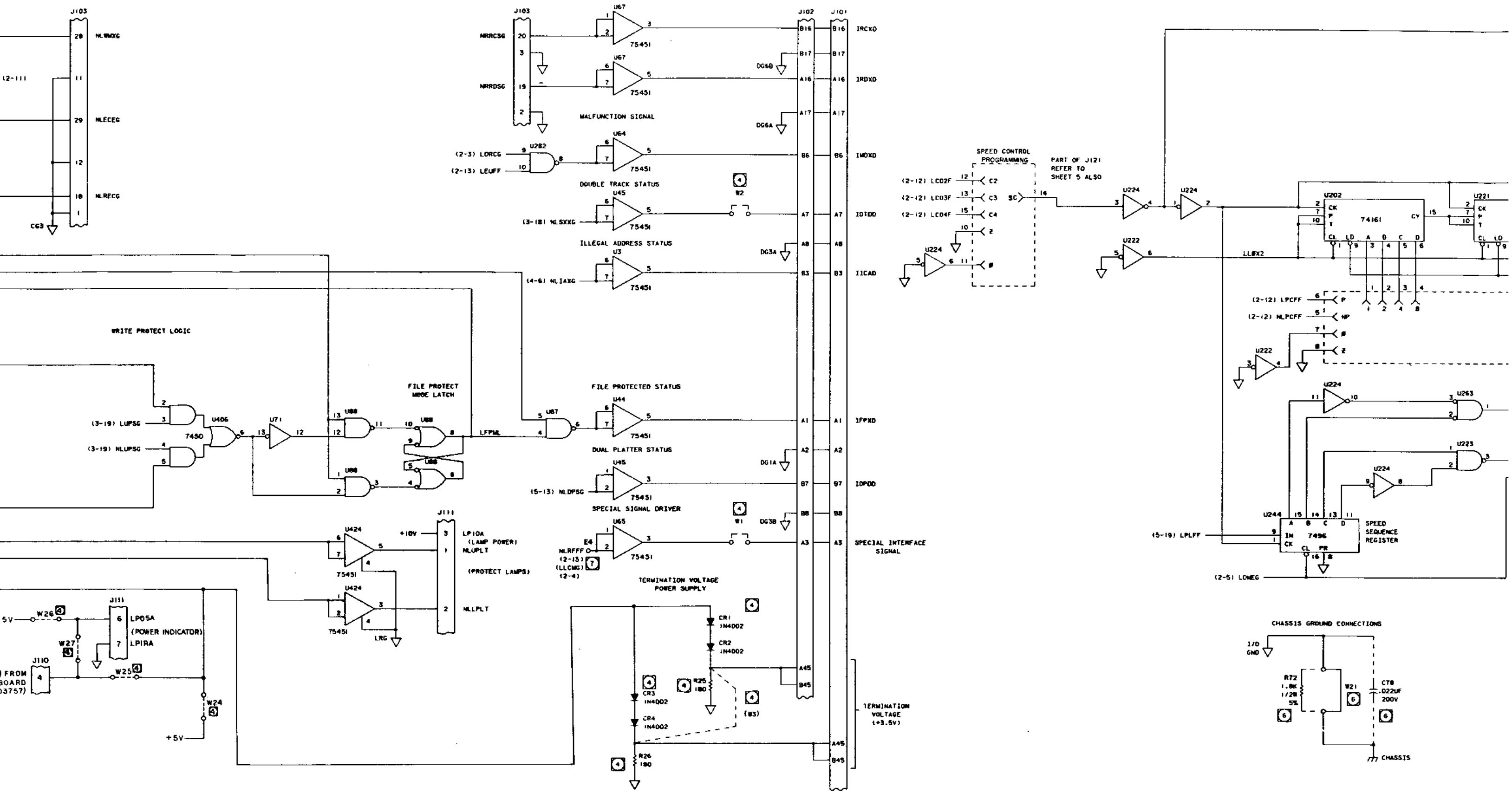
REV		DESCRIPTION		REVISIONS			DATE	DR	CHK	APPR
1	SEE SHEET 1									

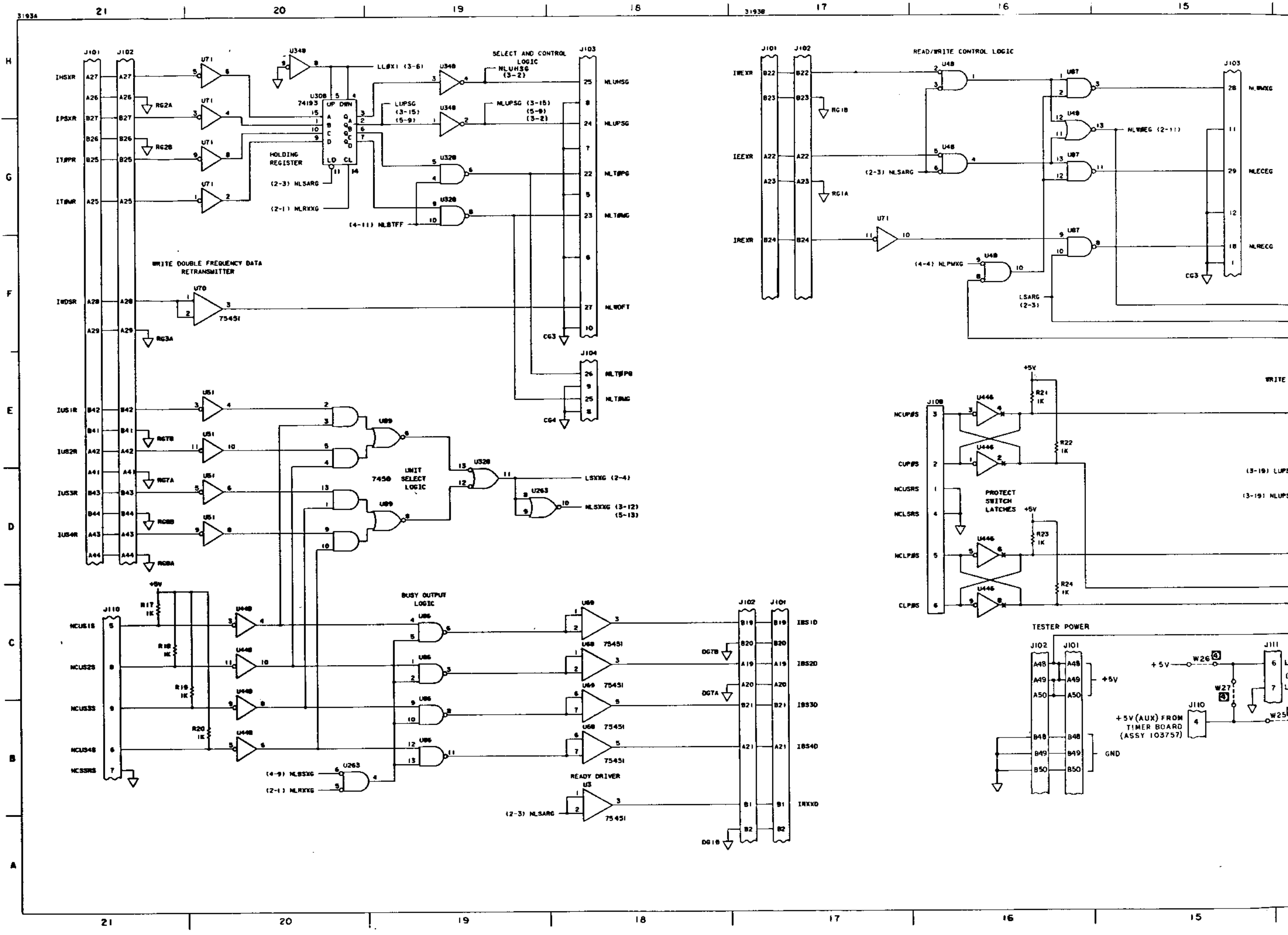




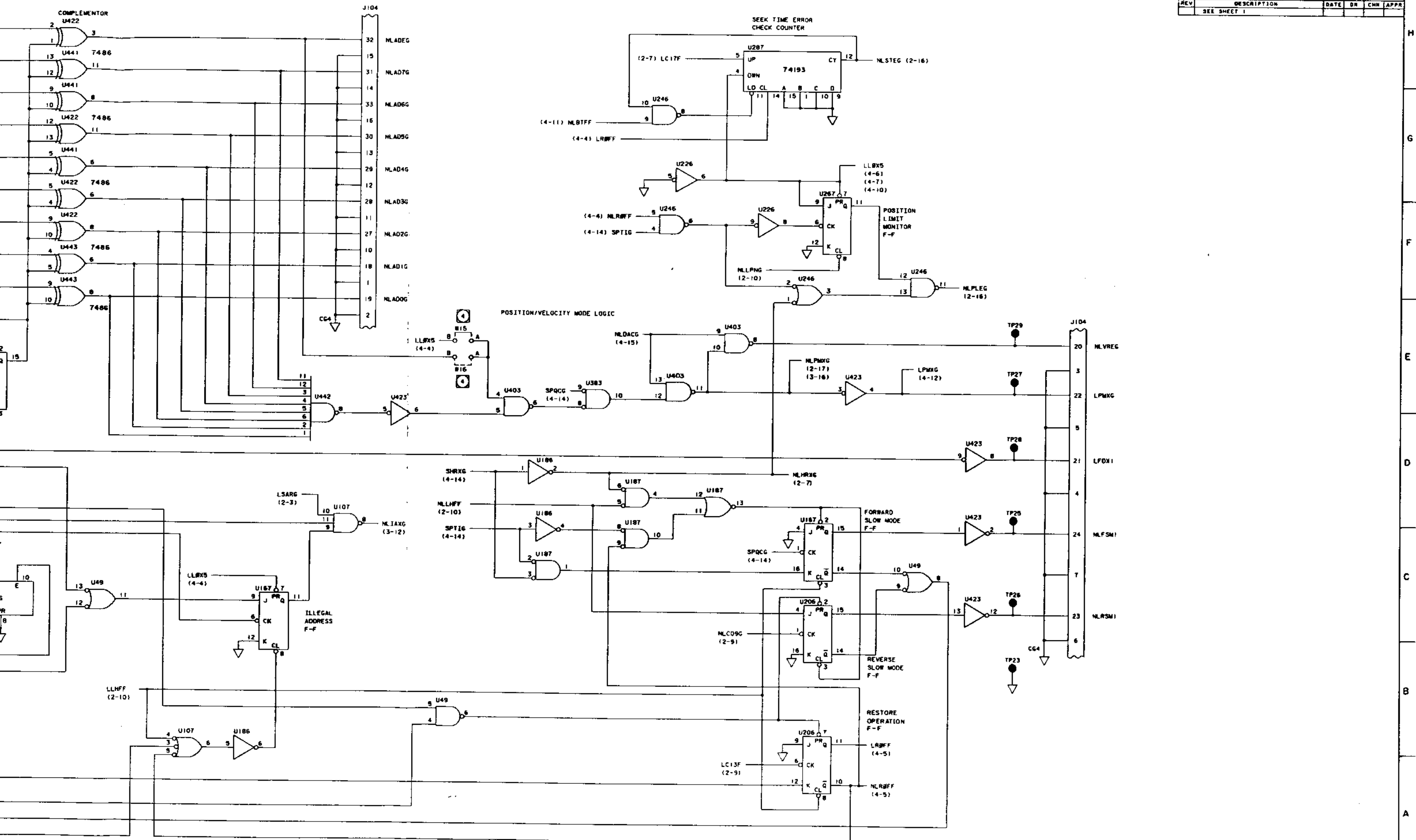
REVISIONS				
REV	DESCRIPTION	DATE	DR	CHK
1	SEE SHEET 1			

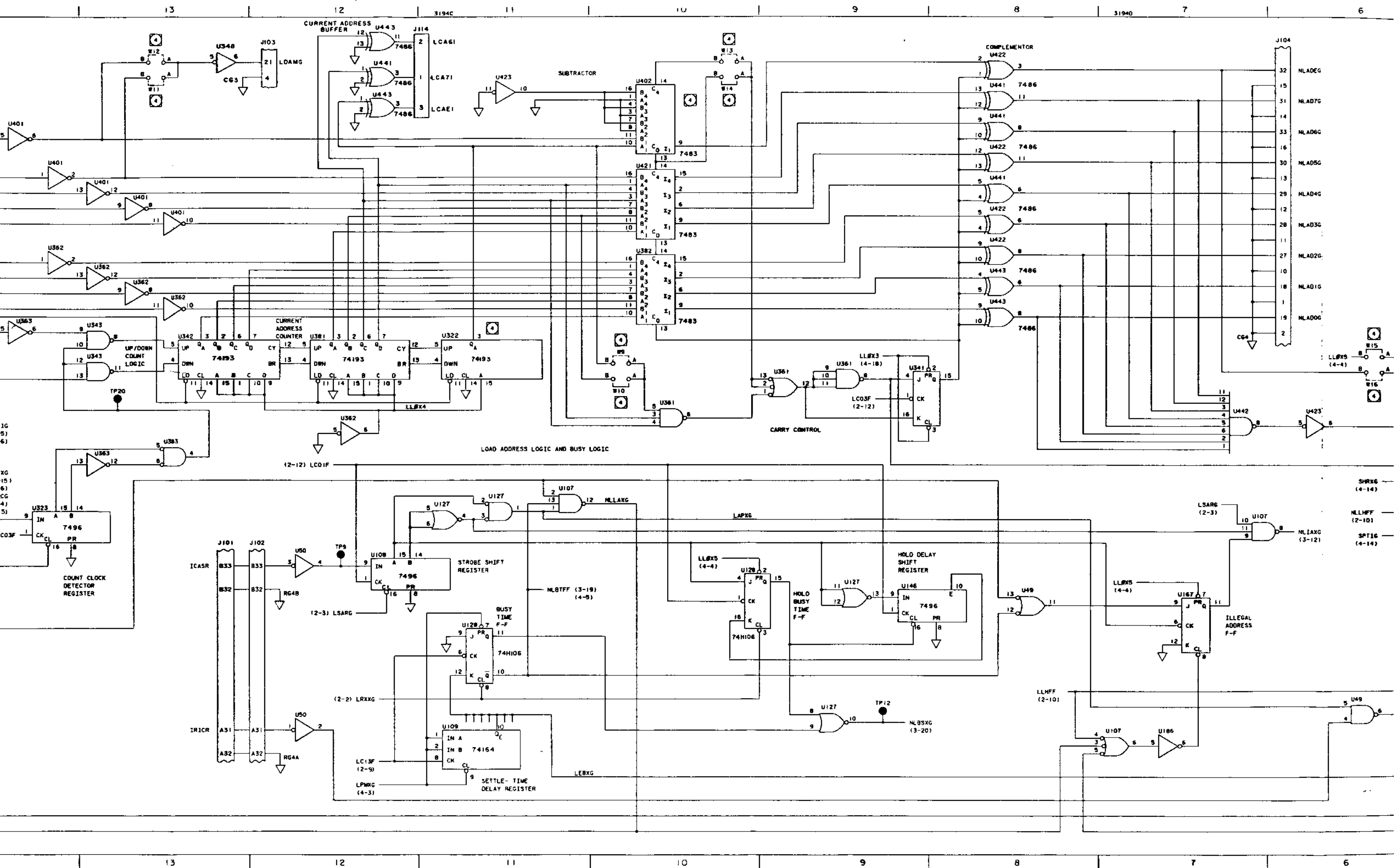


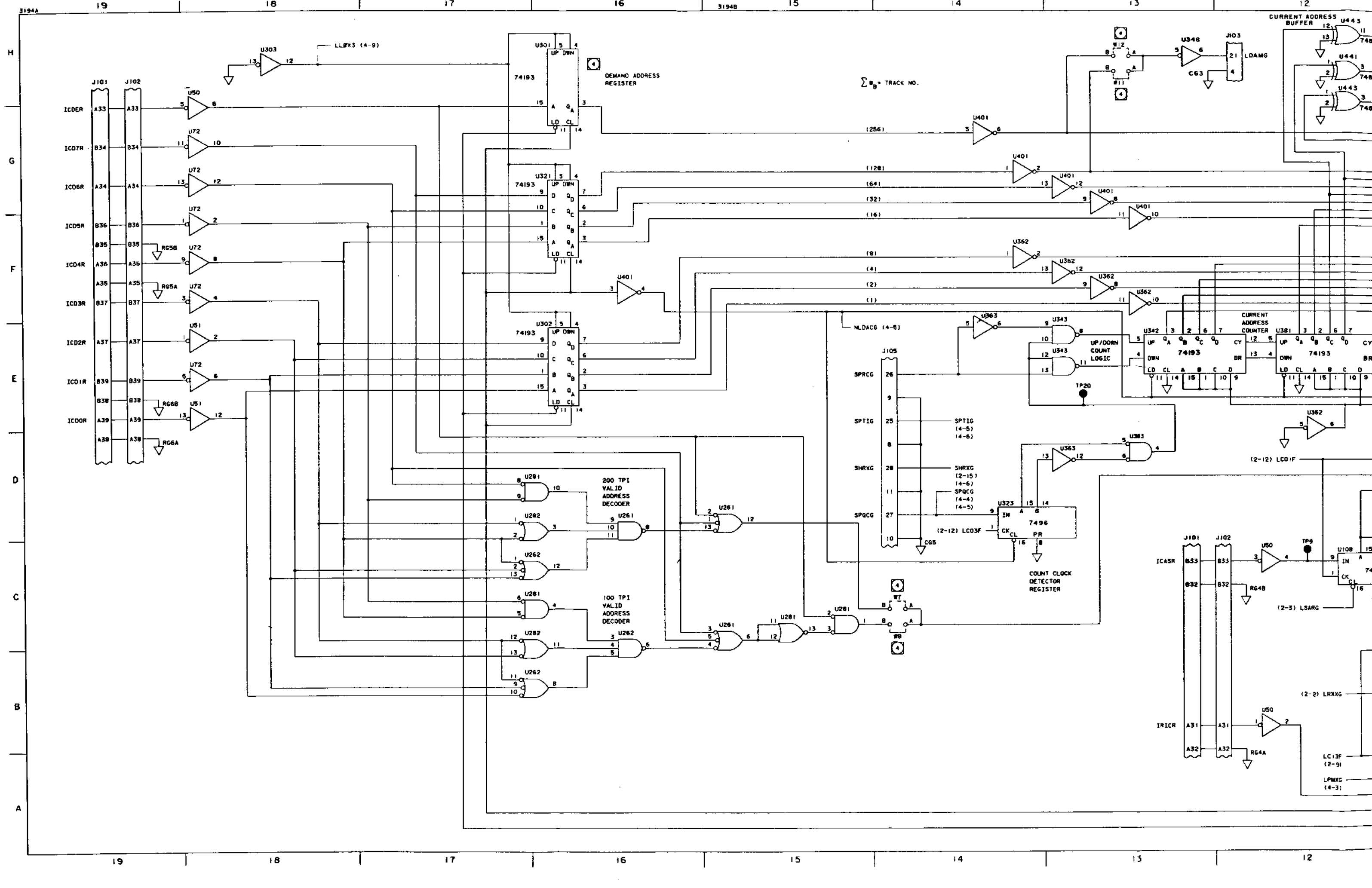




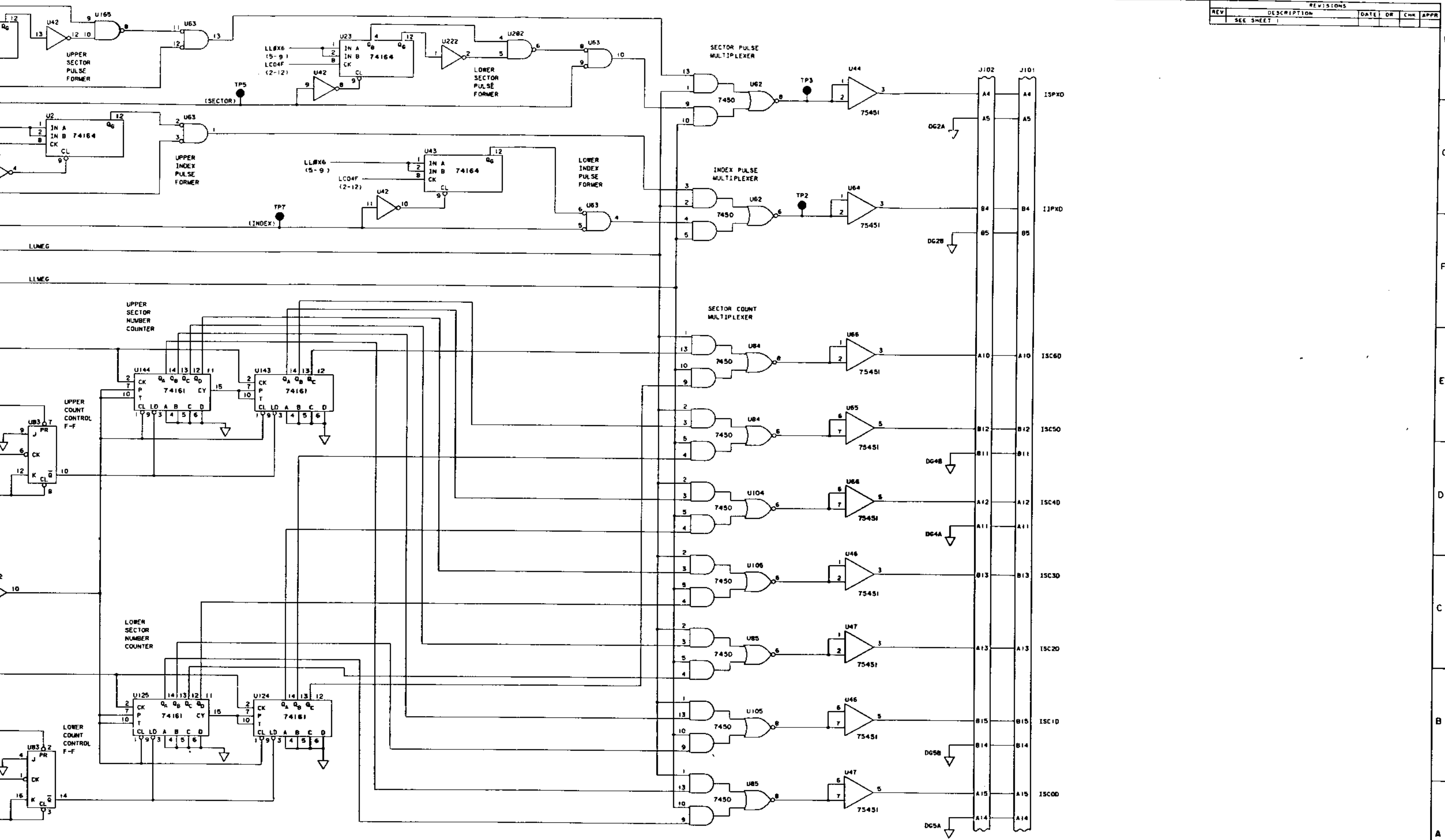
REVISIONS				
REV	DESCRIPTION	DATE	DR	CHK APPR
1	SEE SHEET 1			

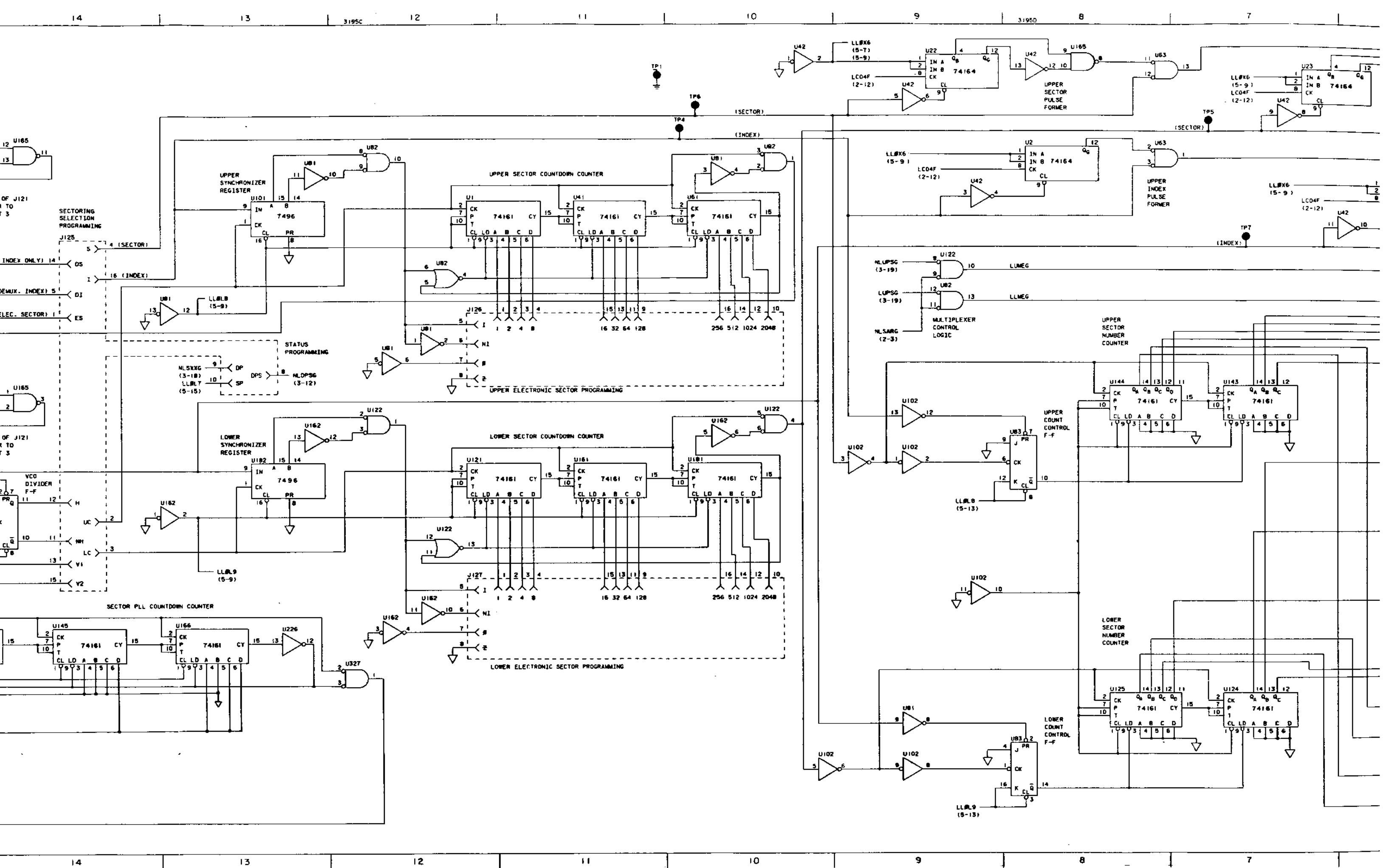




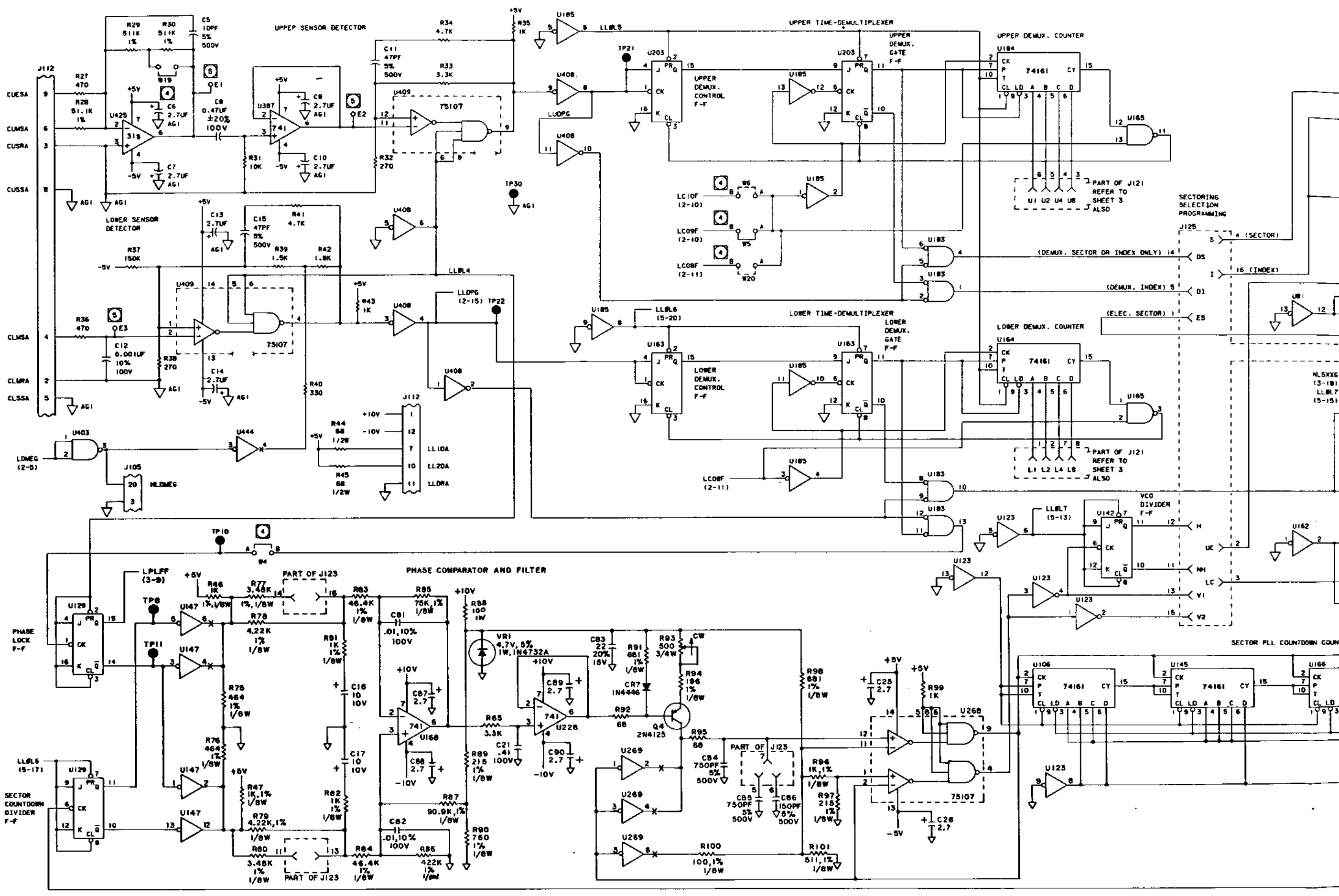


REV		DESCRIPTION		REVISIONS			
REV	DESCRIPTION	DATE	DR	CHK	APPR		
1	SEE SHEET 1						





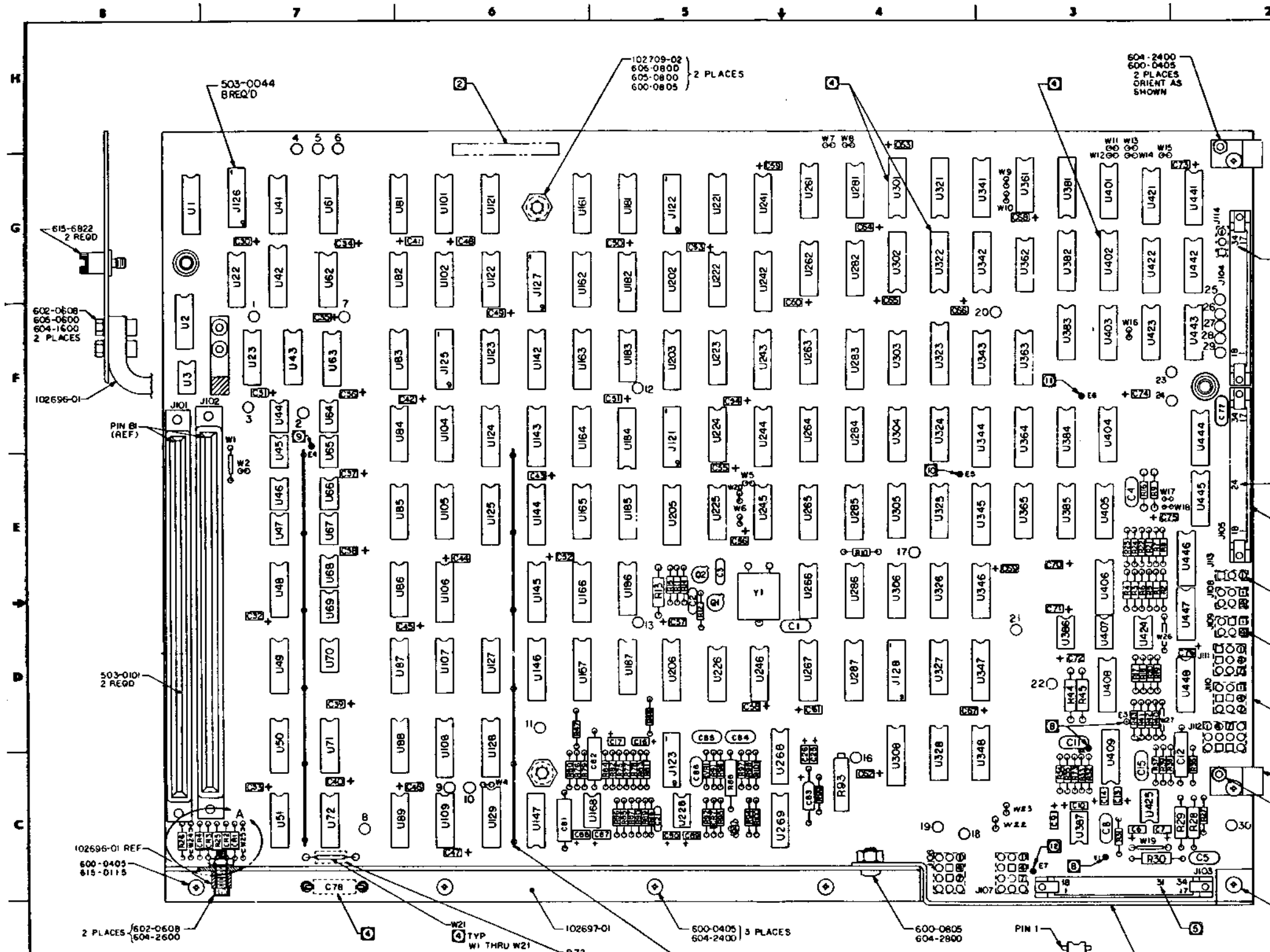
H
G
F
E
D
C
B
A



REVISIONS				
REV	DESCRIPTION	DATE	DR	CHK APPR
1	SEE SHT 1			

TABLE II 4

ASSY 102831 VERSION NUMBER	W22	W24	W25	W26	W27
	P/N 103596-01	P/N 100-0005	P/N 100-0005	P/N 100-0005	P/N 100-0005
	USAGE				
-01	USE	USE	OMIT	USE	OMIT
-02	↓	↓	↓	↓	↓
-03					
-04					
-05					
-06					
-07					
-08	↓				
-09	USE				
-10	OMIT				
-11	USE				
-12	OMIT				
-13	USE				
-14	OMIT				
-15	USE				
-16	OMIT				
-17	USE				
-18	USE				
-19	USE				
-20					
-21	USE				
-22		↓	↓	↓	↓
-23	USE	USE	OMIT	USE	OMIT
-24	OMIT	USE	OMIT	USE	OMIT
-25					
-26					
-27					
-28					
-29					
-30					
-31	USE	OMIT	USE	OMIT	USE
-32	↓	↓	↓	↓	↓
-33					
-34					
-35					
-36					
-37	↓				
-38	USE				
-39	OMIT				
-40	USE				
-41	OMIT				
-42	USE				
-43	OMIT				
-44	USE				
-45	OMIT				
-46	USE				
-47	USE				
-48	USE				
-49	USE				
-50					
-51	USE	↓	↓	↓	↓
-52					
-53	USE	OMIT	USE	OMIT	USE



REV	DESCRIPTION	DATE	BY	CHKD
A	PROTOTYPE			
B	ERN 4-740 PRD RELEASE			
C	ECN 5046			
D	ECN 5144			
E	ECN 5158			
F	ECN 5158 PRD RELEASE			
G	ECN 5644			
H	ECN 5779			
I	ECN 5737			
J	ECN 5981			
K	ECN 6092			
L	ECN 6330			
M	ECN 6368			
N	ECN 6471			
O	ECN 6518			
P	ECN 6992			
Q	ECN 7443B			
R	ECN 7707B			
S	ECN 8335			
T	ECN 8335			
U	ECN 8657A			
V	ECN 10100			
W	ECN 10095			
X	ECN 12582			
Y	ECN 12740			

- ① SPECIAL INTERFACE OPTION SIGNAL DRIVER INPUT PAD (.040 DIA HOLE). E4 REF.
- ② E1, E2, AND E3 ARE TEST PADS INTENDED FOR USE WITH MINIATURE OSCILLOSCOPE PROBE TIPS WHICH WILL FIT IN A .040 DIA HOLE.
- 7. DELETED
- ③ (DELETED)
- ④ KEY CONNECTOR BY REMOVING DESIGNATED PIN.
- ⑤ FOR USAGE OF COMPONENTS SHOWN SEE 102830, TABLE II.
- ⑥ THIS ASSEMBLY SHALL BE MADE FROM PROCESS BOARD 102832-01 REV K AND SUBSEQUENT.
- ⑦ MARK PART NO 102831 INCLUDING VERSION NO AND VERSION ISSUE LETTER.
- ⑧ ASSEMBLE PER STANDARD MFG METHODS.

NOTES: UNLESS OTHERWISE SPECIFIED

- ① (DELETED)
- ② PAD E7 FOR INTERNAL TEMPERATURE GO CONDITION INDICATION JUMPER, USING PART NO. 691-6030, TO SIGNAL DRIVER INPUT PAD E4 FOR -02, -04, -06, -08, -10, -12, -14, -16 VERSIONS ONLY. (.040 DIA HOLE).
- ③ PAD E6 FOR SAFE CONDITION INDICATION SPECIAL INTERFACE - SIGNAL. JUMPER, USING PART NO. 691-6030, TO SIGNAL DRIVER INPUT PAD E4 FOR 17-18, 19, 21, 23A-24 VERSION ONLY. (.040 DIA HOLE).
- ④ PAD E5 FOR RUN CONDITION INDICATION SPECIAL INTERFACE - SIGNAL. JUMPER, USING PART NO. 691-6030, TO SIGNAL DRIVER INPUT PAD E4 FOR -09, -11, -13, -15 VERSIONS ONLY. (.040 DIA HOLE).

⑤ W3 OPTIONAL MOUNTING CIRCUIT OR COMPONENT SIDE OF ASSY.

REV	DATE	BY	CHKD
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

PERTEC PERIPHERAL EQUIPMENT

TITLE: PCBA LOGIC

PART NO: 102831

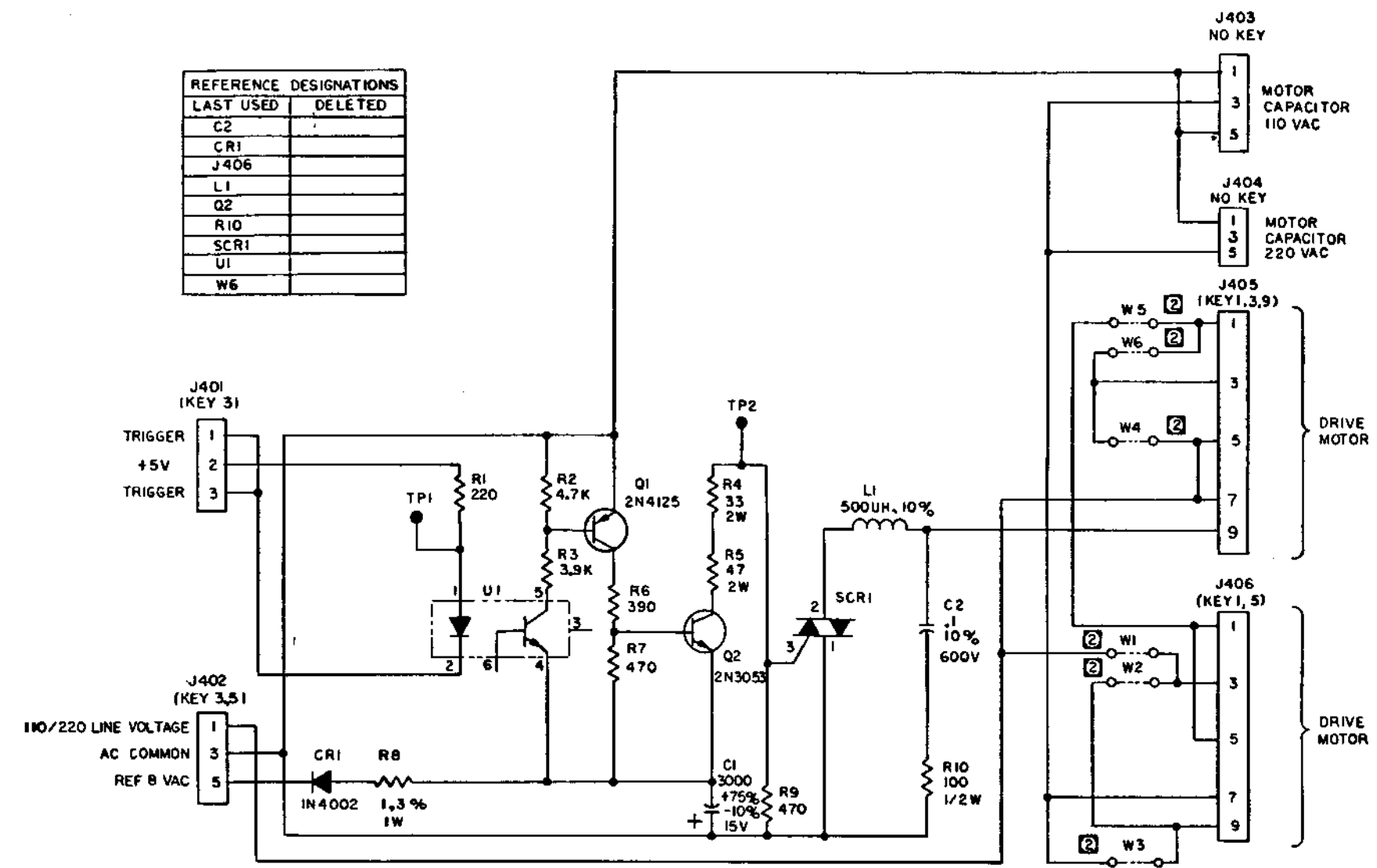
REV: 2

TOP ASSY: D3000

APPLICATION:

REV	DESCRIPTION	DATE	DR	CHK	APPV
A	ERN 6-VA	DRGC	RELEASE	10/11/70	10/11/70

REFERENCE DESIGNATIONS	
LAST USED	DELETED
C2	
CR1	
J406	
L1	
Q2	
R10	
SCR1	
U1	
W6	



① TABLE I

PART NO.	REFERENCE DESIG
100-2215	R1
100-3915	R6
100-3925	R3
100-4715	R7,9
100-4725	R2
101-1015	R10
103-3305	R4
103-4705	R5
113-0103	R8
131-1046	C2
134-3000	C1
200-3053	Q2
200-4125	Q1
205-4010	SCR1
300-4002	CR1
403-0001	U1
103585-01	L1

② TABLE II

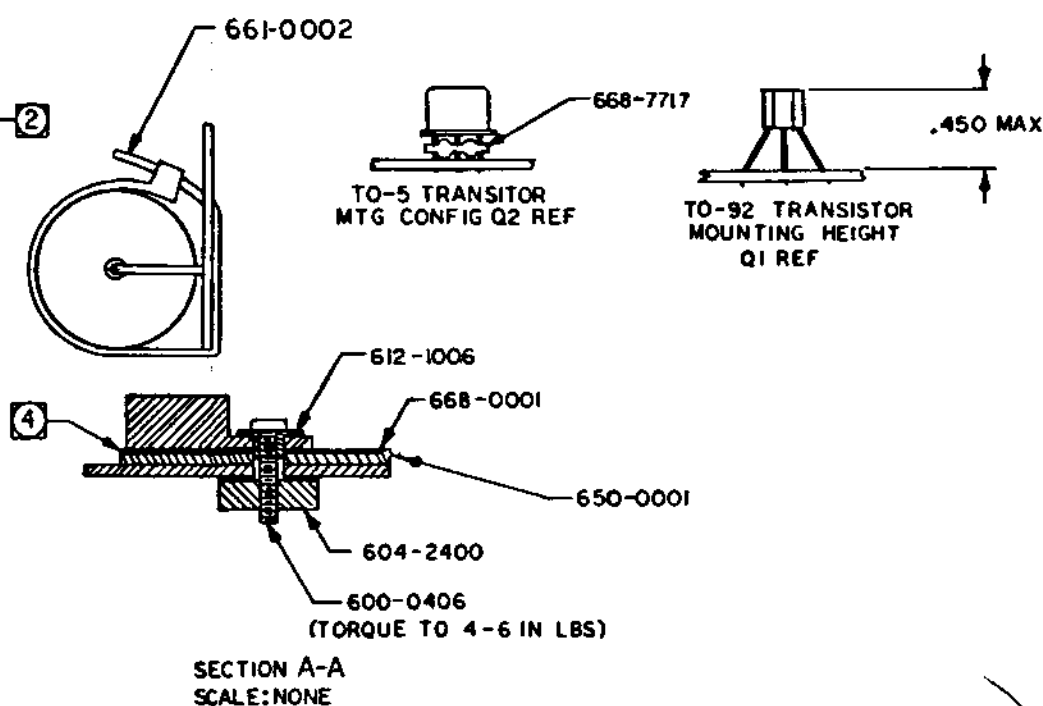
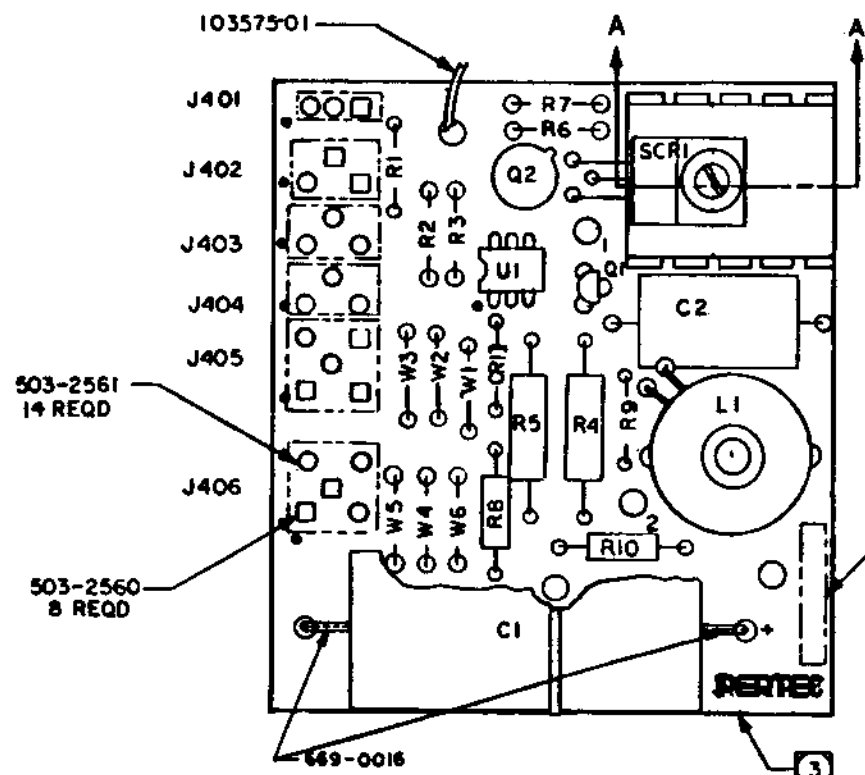
PART NO.	ASSY 103571	
100-0005	-01 (90-125VAC)	-02 (190-250VAC)
W1	USE	OMIT
W2	OMIT	USE
W3	USE	OMIT
W4	USE	OMIT
W5	USE	OMIT
W6	OMIT	USE

- 4. ALL CAPACITOR VALUES ARE IN MICROFARADS.
 - 3. ALL RESISTOR VALUES ARE IN OHMS, 5%, 1/4W.
 - ② FOR VALUE, PART NO. AND USAGE OF COMPONENTS AFFECTED BY VERSION NO. SEE TABLE II.
 - ① FOR PART NO. OF COMPONENTS NOT AFFECTED BY VERSION NO. SEE TABLE I.
- NOTES: UNLESS OTHERWISE SPECIFIED

ASSEMBLY NO. 103571
 SPECIFICATION NO. 103574
 REFERENCE DRAWINGS:

SIGNATURE		DATE	PERTE PERIPHERAL EQUIPMENT
DR. [Signature]		10/11/70	
TITLE		SCHEMATIC - MOTOR CONTROL BOARD	
SIZE	CODE	DWG. NO.	REV.
F		103570	A
FINISH:		MATERIAL:	
APPLICATION:		DO NOT SCALE DIM. 1 OF 1	

REVISIONS					
REV	DESCRIPTION	DATE	DR	CHK	APPR
A	ERN 6-VA PROC BELLEFLORE	12/24/71	WJL	WJL	WJL
A1	ECN 7066	1/27/72	WJL	WJL	WJL
B	ECN 7834	4/12/72	WJL	WJL	WJL
C	ECN 8382	5/1/72	WJL	WJL	WJL



- ④ APPLY 665-0001 TO BOTH SIDES OF 668-0001.
- ③ THIS ASSY SHALL BE MADE FROM PROCESS BOARD 103572-01 REV E AND SUBSEQUENT.
- ② MARK PART NO 103571 INCLUDING VERSION NO. AND VERSION ISSUE LETTER, LOCATE APPROX AS SHOWN.

1. ASSEMBLE PER STANDARD MFG METHODS.
 NOTES: UNLESS OTHERWISE SPECIFIED

103571 - 01 REV C

FOR ASSY VERSION INFORMATION SEE SCHEMATIC 103570.

<small>The information herein is the property of PERTEC CORPORATION. Its use is limited to the specific project, and is not to be disseminated, copied, or reproduced for any other project without the written approval of PERTEC.</small>		SIGNATURES DR: <i>[Signature]</i> CK: <i>[Signature]</i> DES: <i>[Signature]</i> ENGR: <i>[Signature]</i> PROJ ENGR: <i>[Signature]</i>		DATE 12/24/71	PERTEC PERIPHERAL EQUIPMENT TITLE PCBA MOTOR CONTROL BOARD
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES: DEC: ± .005 ANGULAR: ± 1/2° HOLE: ± .005 BREAK ALL SHARP CORNERS APPROX. 2R		FINISH: SEE LM		SIZE: D CODE: 103571-01 DRAWING NO.: 103571 SCALE: 2/1 REV: C	

103571

REV	DESCRIPTION	DATE	BY	CHK	APP
A	ERN 6-V8 PROD REL.				
B	ECN 1041				
C	ECN 9061				
D	ECN 10563				
E	ECN 10885				
F	ECN 11556B				

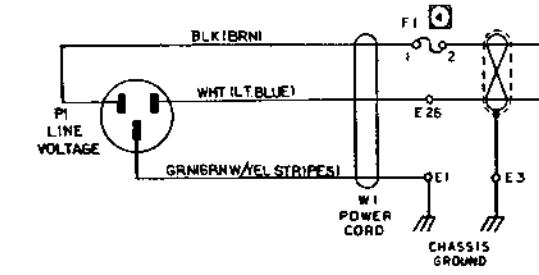
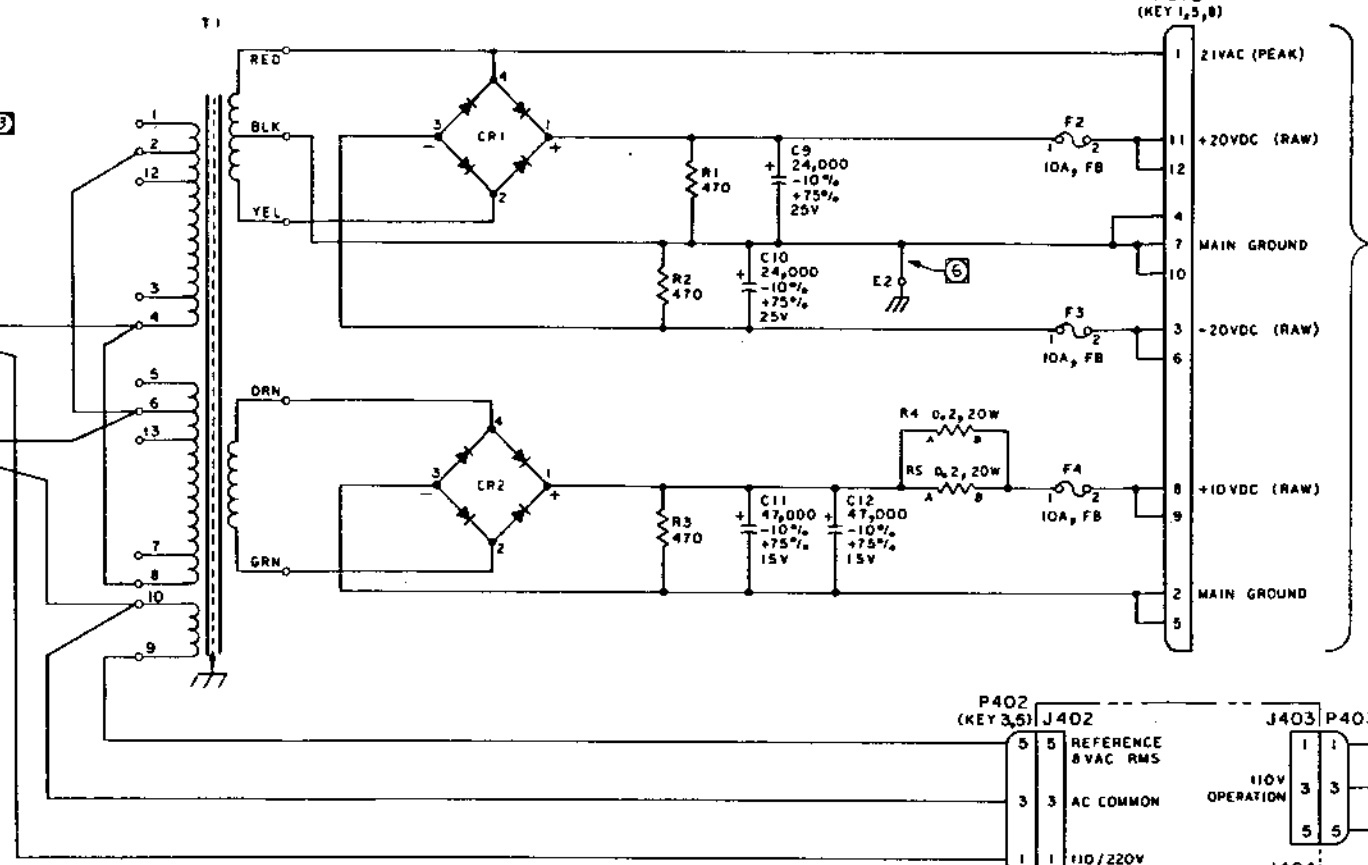
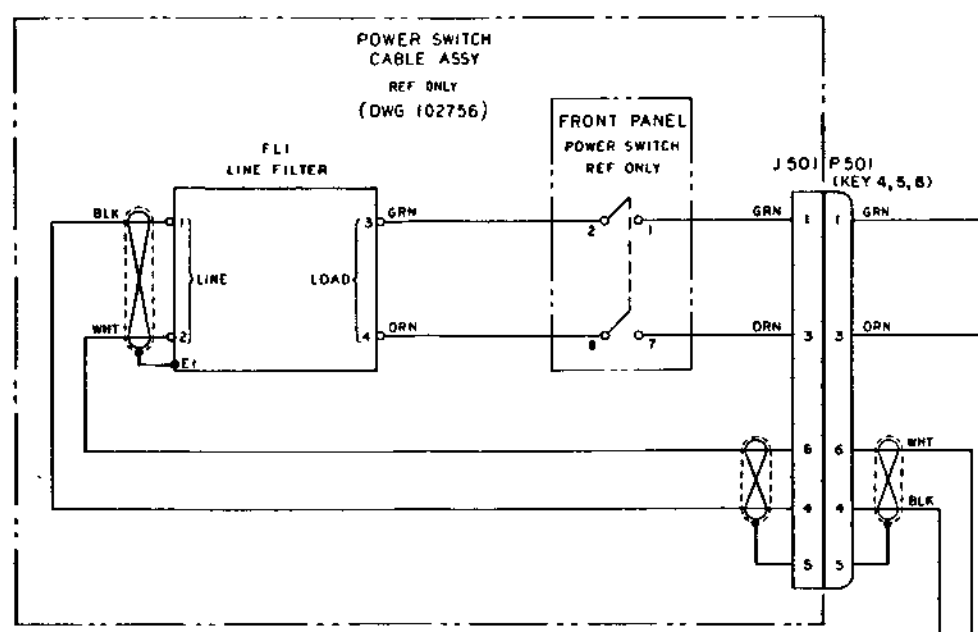


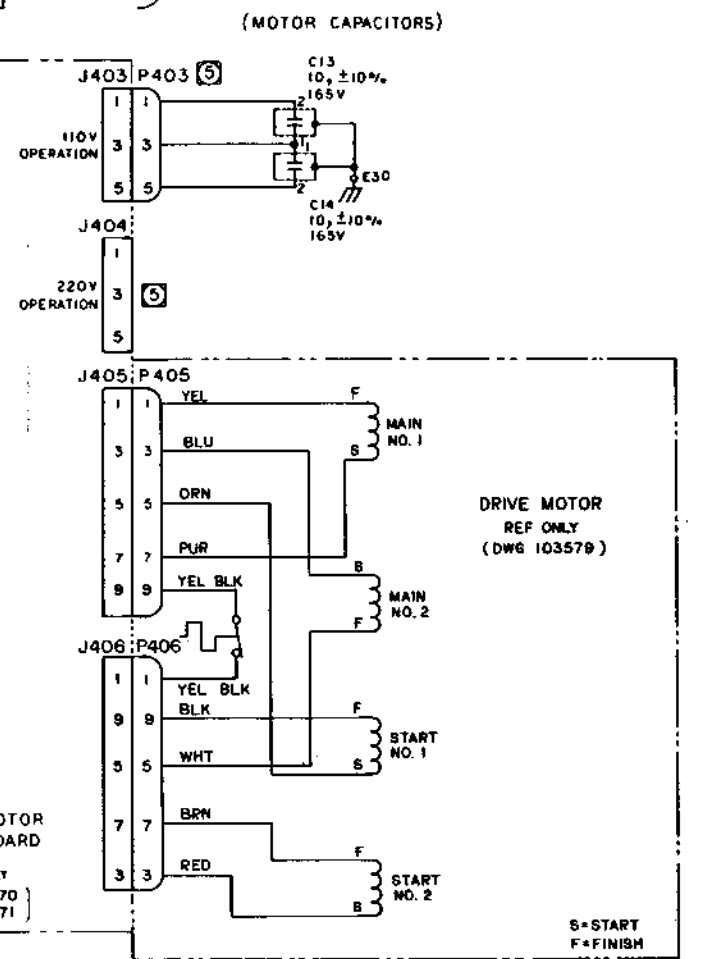
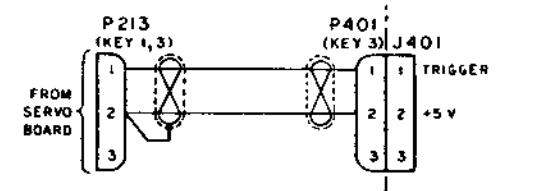
TABLE I (3)

NOMINAL LINE VOLTAGE	FROM E28 TO		FROM E27 TO		JUMPER FROM TO		JUMPER FROM TO	
	1	2	1	2	1	2	1	2
90	13	3	12	13	3	7		
100	6	3	2	6	3	7		
110	5	3	1	5	3	7		
115	6	4	2	6	4	8		
125	5	4	1	5	4	8		
190	13	3	12	7				
200	6	3	2	7				
210	6	3	1	7				
215	6	4	2	7				
220	5	3	1	7				
225	5	4	2	7				
230	6	4	2	8				
235	5	4	1	7				
240	6	4	1	8				
250	5	4	1	8				

ASSEMBLY VERSION NUMBER	VERSION CHARACTERISTIC	VOLTAGE & Hz
-01	NORMAL GROUNDING (POWER SUPPLY MAIN GROUND CONNECTED TO CHASSIS GROUND)	LO VOLTS 60 Hz
-02	GROUND ISOLATION (6)	
-05	NORMAL GROUNDING (POWER SUPPLY MAIN GROUND CONNECTED TO CHASSIS GROUND)	HI VOLTS 60 Hz
-06	GROUND ISOLATION (6)	
-07	NORMAL GROUNDING (POWER SUPPLY MAIN GROUND CONNECTED TO CHASSIS GROUND)	HI & LO VOLTS 50 Hz
-08	GROUND ISOLATION (6)	

-09	NORMAL GROUNDING (POWER SUPPLY MAIN GROUND CONNECTED TO CHASSIS GROUND)	SPECIAL VOLTAGE REQUEST
-10	GROUND ISOLATION (6)	

REFERENCE DESIGNATIONS		
NOT USED	LAST USED	DELETED
CI THRU C8	C 14	
	CR 2	
	F 4	
	R 5	
	T 1	
	W 1	



AND -10 VERSIONS CONNECTION, E2 (MAIN GROUND AND).

OR NOMINAL LINE 125 VOLTS. J401 FOR STAGE OF 190 TO 250 VOLTS. VOLTAGE OF 90 TO 125 VOLTS UTILIZED. VOLTAGE OF 190 TO 250 VOLTS UTILIZED.

FORMER PRIMARY SHOWN FOR STAGE 115 VOLTS. WINDINGS UTILIZED FOR LINE STAGES.

RESISTORS ARE IN OHMS, 25%, 2W. CAPACITORS ARE IN MICROFARADS.

UNLESS OTHERWISE SPECIFIED

FOR ASSEMBLY SEE 103581

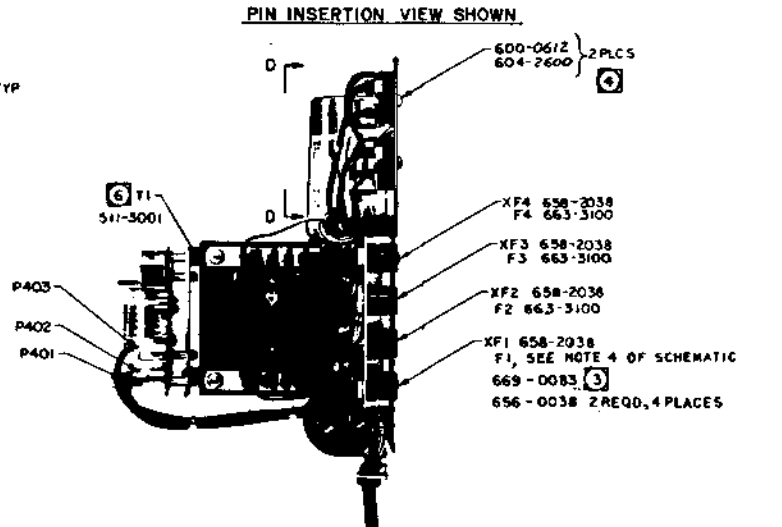
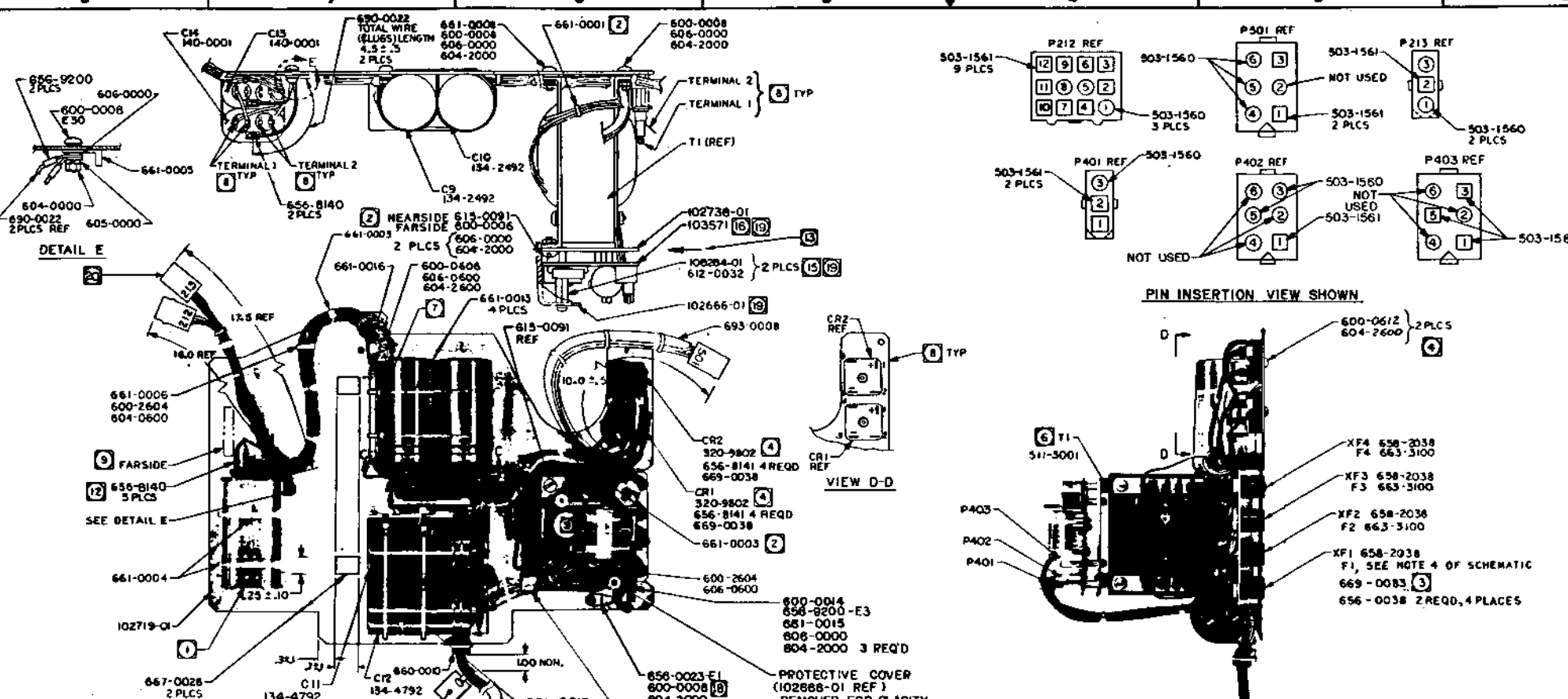
103581	D 3400	DATE	
103581	D 3000	REV	

PERTEC PERIPHERAL EQUIPMENT

SCHEMATIC, POWER SUPPLY

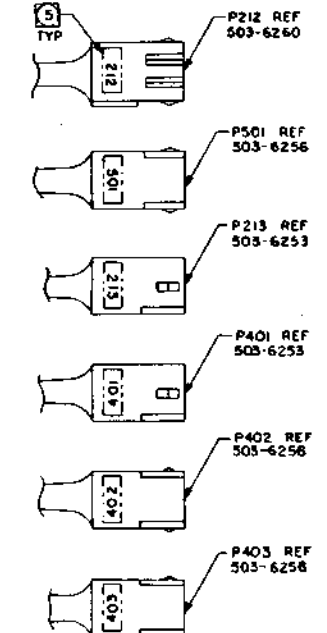
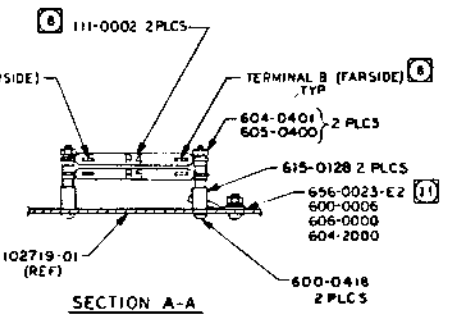
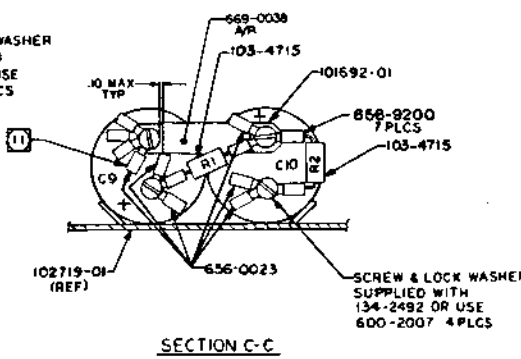
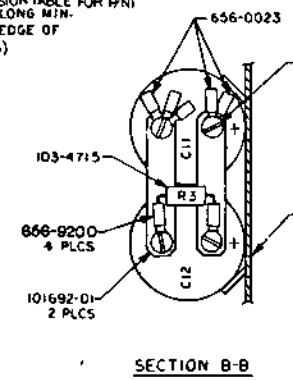
103580

REVISIONS				
REV	DESCRIPTION	DATE	BY	CHK
A	ERN 6-VG PROD. RELEASE			
B	ECN 7041			
C	ECN 7759			
D	ECN 8844			
E	ECN 9323			
F	ECN 9590			
G	ECN 9661			
H	ECN 10373A			
J	ECN 10083			
K	ECN 10347			
L	ECN 10885			
M	ECN 10999			
N	ECN 11329			
P	ECN 11558			



- 19 NOT INCLUDED WITH SPARE POWER SUPPLY.
- 18 MARK IN 1/8 HIGH CHARACTERS NEXT TO E1 (FARSIDE): GROUND SCREW, DO NOT REMOVE.
- 17 DELETED
- 16 SEE TOP ASSY FOR PART NO.
- 15 USE 667-0109 SPARINGLY ON BOTH ENGAGING THREADS.
- 14 TO ASSURE REQUIRED CLEARANCE FOR NEXT ASSEMBLY INSPECT WITH BASE CASTING SIMULATOR TOOL.
- 13 FOR PROPER ASSEMBLY FIT SHIFT SUPPORT PLATE IN DIRECTION SHOWN (TO TAKE UP HOLE CLEARANCES) BEFORE TIGHTENING OF SCREWS.
- 12 SHRINK SLEEVING 669-0038 ON ALL UNUSED TERMINALS.
- 11 FOR 02-06-08&0 VERSIONS (GND ISOLATION) DELETE CONNECTION FROM E2 TO C9 (-) (MAIN GROUND TO CHASSIS GROUND).
- 10 REMOVE OUTER SHEATH OF INSULATION BEYOND STRAIN RELIEF.
- 9 MARK ASSEMBLY P/N 103581 INCLUDING VERSION NUMBER AND VERSION (ISSUE LETTER IN APPROX LOCATION SHOWN, FARSIDE).
- 8 REFERENCE DESIGNATIONS ARE USED FOR PURPOSE OF SPECIFYING ASSEMBLY AT THIS LEVEL AND MAY NOT APPEAR ON ACTUAL COMPONENTS.
- 7 USE SLEEVING 669-0080 OVER WIRE BUNDLE ADJACENT TO THE CHASSIS BRACKET RETAINING C9 AND C10.
- 6 ALL WIRES SOLDERED TO T1 SHALL HAVE A MECHANICAL WRAP ON THE TRANSFORMER TERMINALS CONSISTING OF A MINIMUM 360° WRAP. AFTER WIRING TRANSFORMER TERMINALS COVER ALL TERMINALS BY SHRINKING 669-0038 IN PLACE OVER TERMINAL. USE TAPE 667-0549 IF NECESSARY TO COVER ALL EXPOSED PORTIONS OF THE TERMINAL.
- 5 MARK REFERENCE DESIGNATION AS INDICATED ON RECEPACLE, ORIENT AS SHOWN.
- 4 DURING INSTALLATION, CARE MUST BE TAKEN TO SEE THAT CONTAMINATION HAS BEEN REMOVED FROM MATING SURFACES AND THAT THESE SURFACES DO NOT TRAP CONTAMINATION. COAT MOUNTING SURFACE OF 320-1010 WITH A THIN FILM OF 665-0002 COMPOUND (MINIMUM OF 90% COVERAGE) PRIOR TO MOUNTING. TORQUE SCREWS TO 10 ± 2 INCH POUNDS. WIPE EXCESS 665-0002 COMPOUND FROM COMPLETED ASSEMBLY.
- 3 AFTER WIRING FUSEHOLDER, SHRINK PART NO 669-0083 IN PLACE OVER FUSEHOLDER AS SHOWN (XF ONLY).
- 2 TIE WRAP AT 2 1/2 IN MAX INTERVALS.
- 1 USE 2 STRIPS OF 667-0028 BETWEEN C13 & C14.

VERSION TABLE			
VERSION	GROUNDING CHARACTERISTICS	VOLTAGE & HZ	POWER CORD P/N
-01	BASIC	LO VOLTS 60 HZ	692-2717
-02	GROUND ISOLATION	LO VOLTS 60 HZ	692-2717
-05	BASIC	HI VOLTS 60 HZ	692-0250
-06	GROUND ISOLATION	60 HZ	692-0250
-07	BASIC	HIGH VOLTS 50 HZ	692-0251
-08	GROUND ISOLATION	50 HZ	692-0251
-09	BASIC	SPECIAL VOLTAGE REQUEST	692-2717
-10	GROUND ISOLATION		692-2717



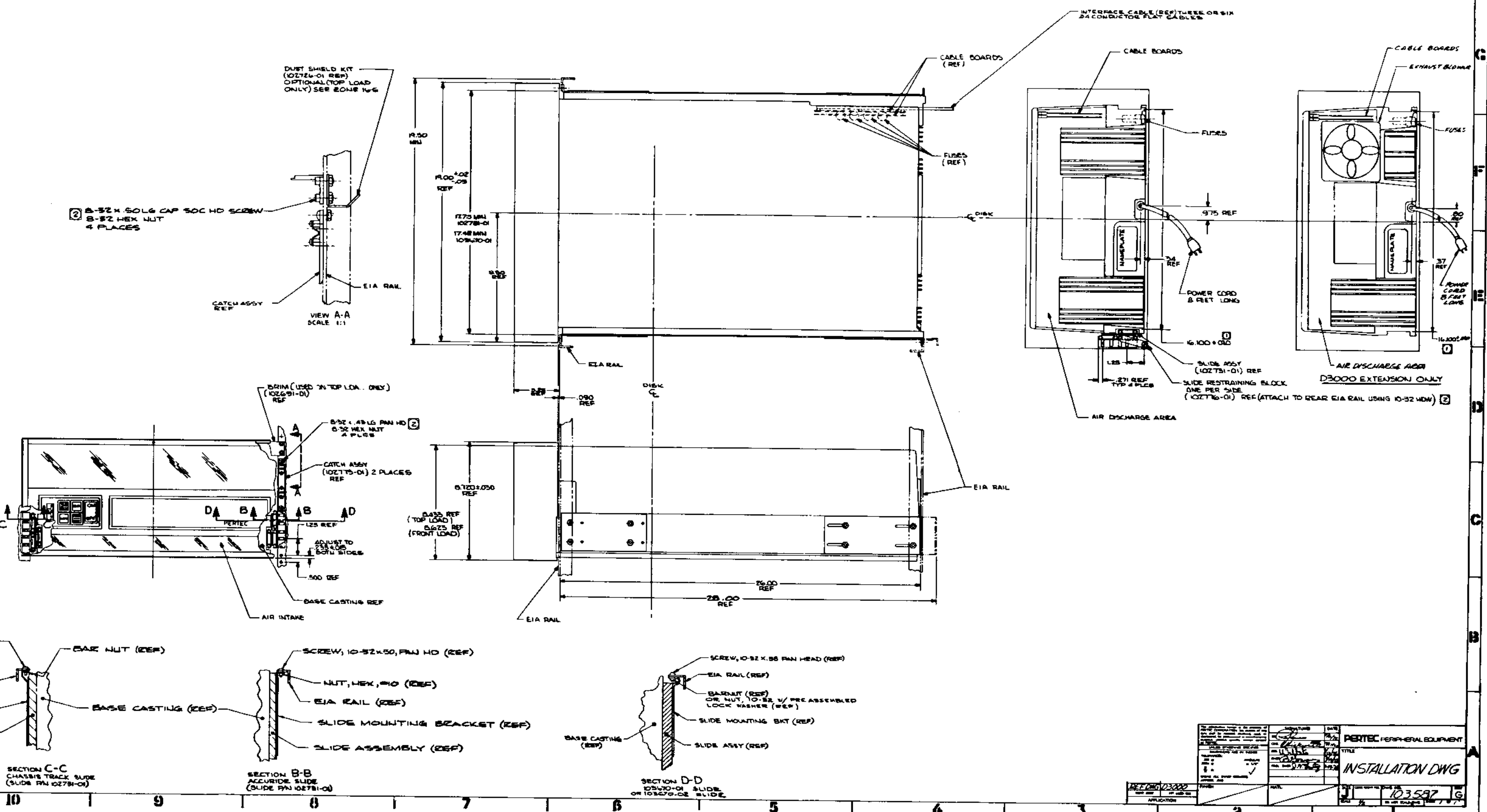
FOR WIRE LIST SEE 103582
FOR SCHEMATIC SEE 103580

PERTEC PERIPHERAL EQUIPMENT POWER SUPPLY ASSEMBLY PART NO. 103581-REV SEE LM 103581	DATE BY CHECKED APPROVED AUTHORITY DATE
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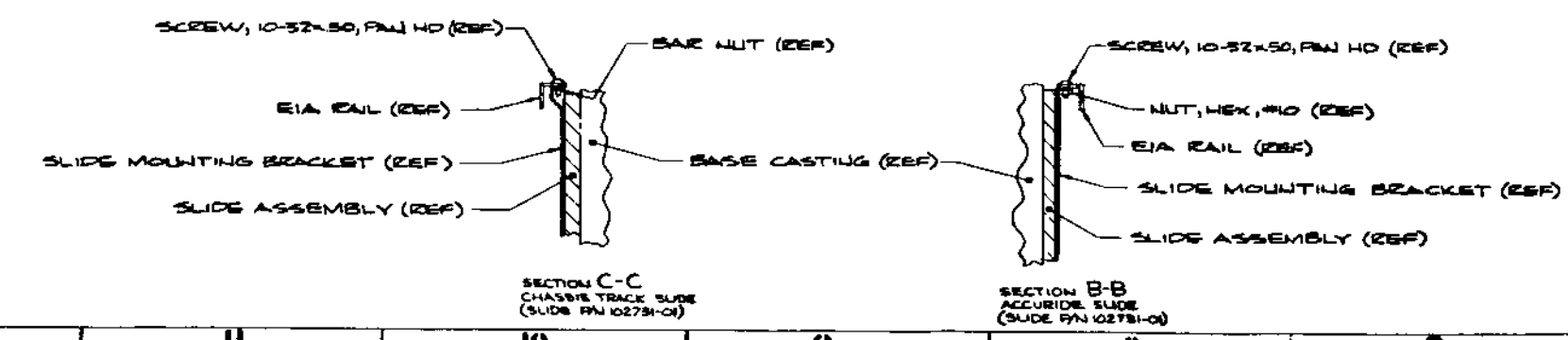
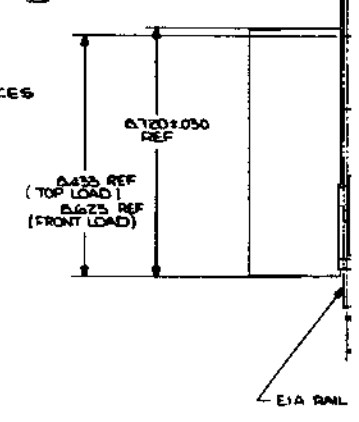
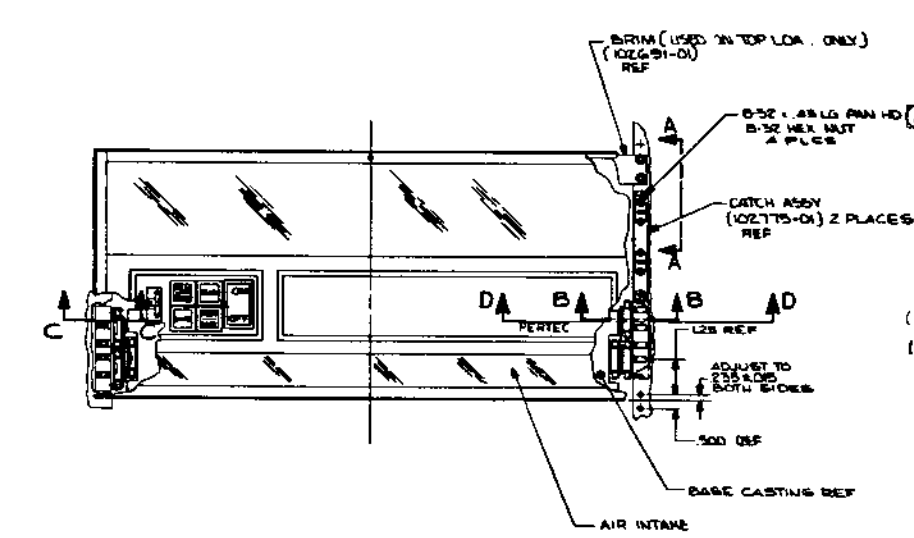
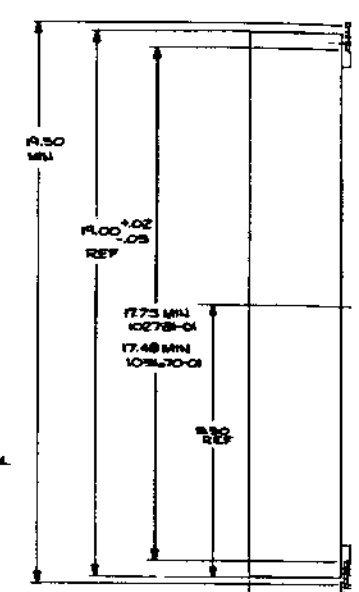
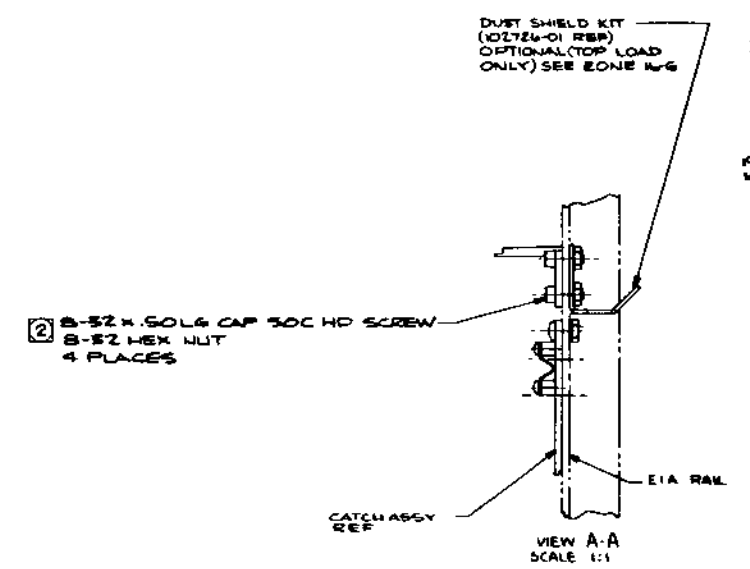
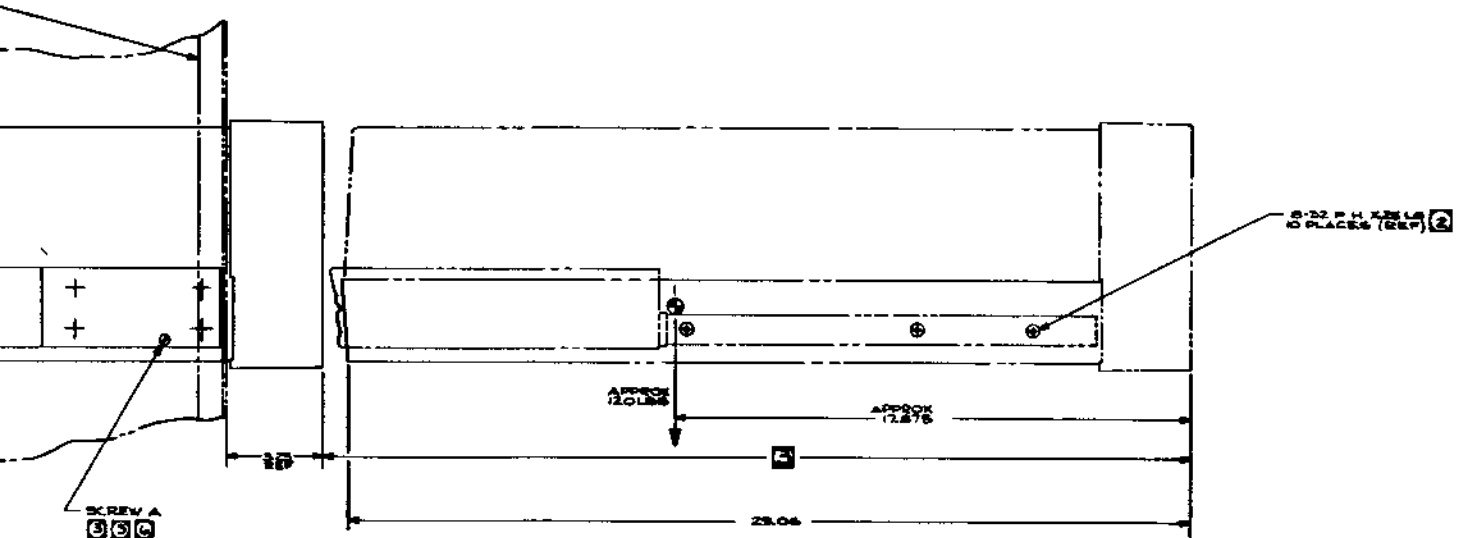
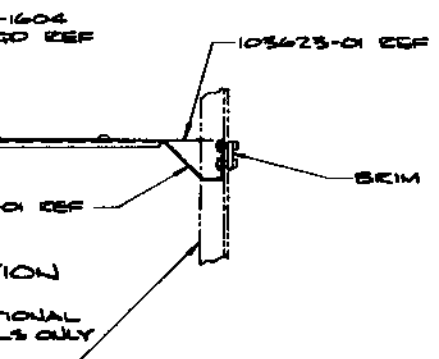
- 21 RECORD VOLTAGE AND FREQUENCY WITH INK. SEE SALES ORDER FOR APPROPRIATE INFORMATION.
- 20 SHRINK SLEEVING 669-0030 OVER END OF CABLE FEEDING INTO P213 & P401.

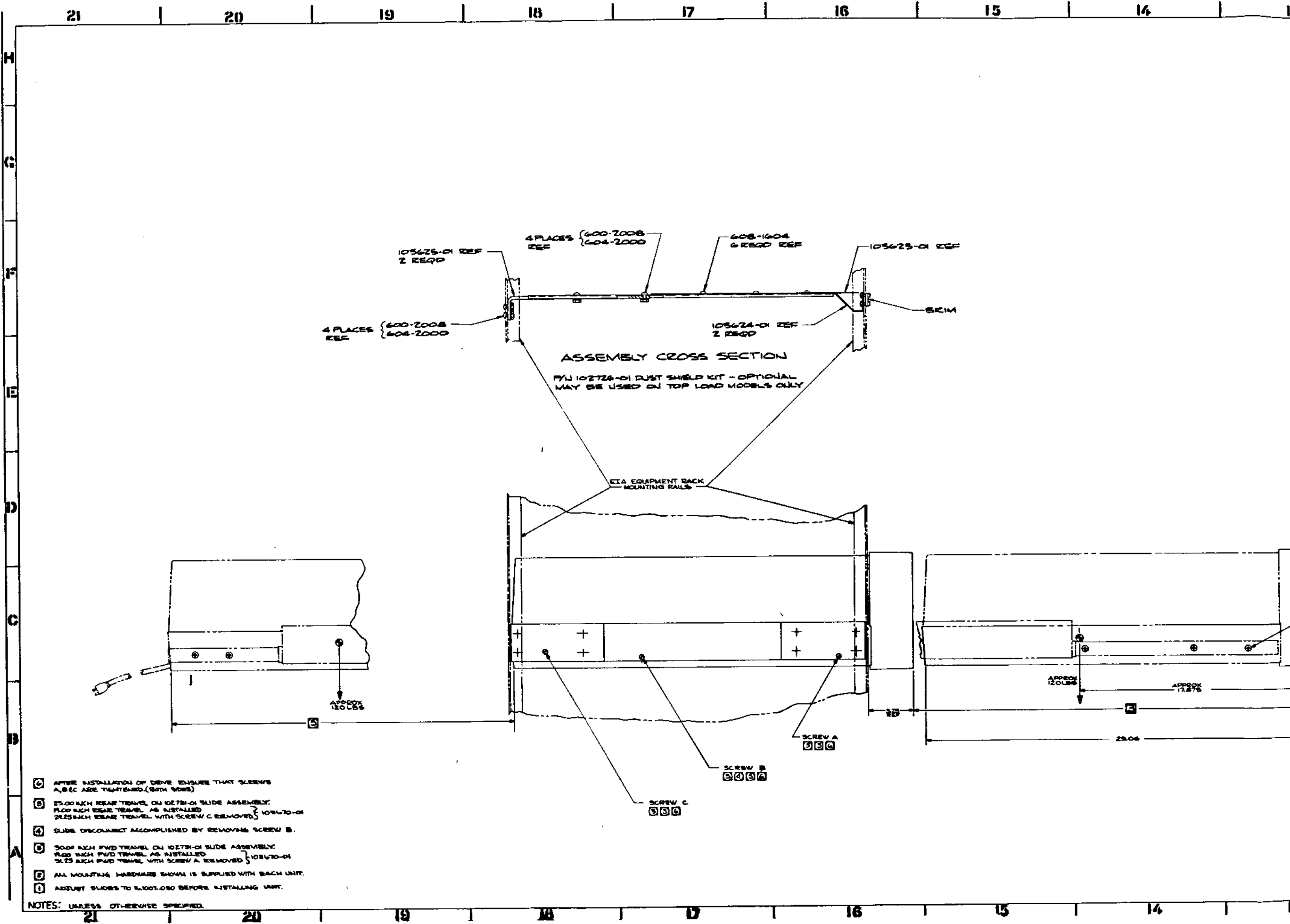
NOTES: UNLESS OTHERWISE SPECIFIED.

REV	DESCRIPTION	APP	DATE
A	REVISED TO INCLUDE...		
B	REVISED TO INCLUDE...		
C	REVISED TO INCLUDE...		
D	REVISED TO INCLUDE...		
E	REVISED TO INCLUDE...		
F	REVISED TO INCLUDE...		
G	REVISED TO INCLUDE...		



<p>PERTEC PERIPHERAL EQUIPMENT</p> <p>TITLE</p> <p>INSTALLATION DWG</p> <p>103597</p>	<p>DATE</p> <p>BY</p> <p>CHECKED</p> <p>APPROVED</p>
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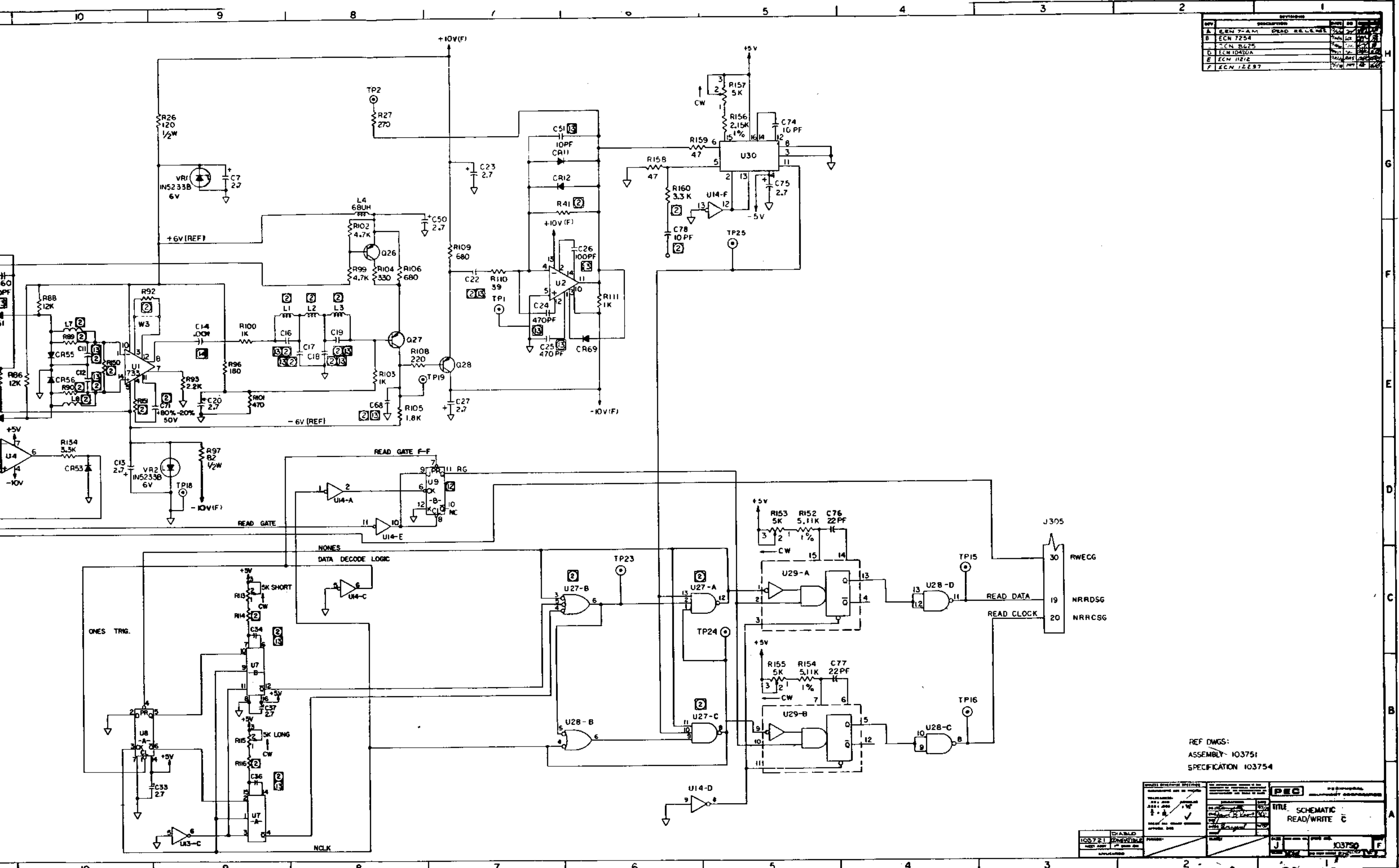




- ① AFTER INSTALLATION OF DRIVE ENSURE THAT SCREWS A, B & C ARE TIGHTENED (BOTH SIDES)
- ② 25.00 INCH REAR TRAVEL ON 10278-01 SLIDE ASSEMBLY. 15.00 INCH REAR TRAVEL AS INSTALLED. 21.25 INCH REAR TRAVEL WITH SCREW C REMOVED.
- ③ SLIDE DISCONNECT ACCOMPLISHED BY REMOVING SCREW B.
- ④ 30.00 INCH FWD TRAVEL ON 10278-01 SLIDE ASSEMBLY. 18.00 INCH FWD TRAVEL AS INSTALLED. 24.25 INCH FWD TRAVEL WITH SCREW A REMOVED.
- ⑤ ALL MOUNTING HARDWARE SHOWN IS SUPPLIED WITH EACH UNIT.
- ⑥ ADJUST SLIDES TO 1.001.050 BEFORE INSTALLING UNIT.

NOTES: UNLESS OTHERWISE SPECIFIED.

REV	DESCRIPTION	DATE	BY	CHKD
A	ECN 7-AM			
B	ECN 7254			
C	ECN 8625			
D	ECN 10422A			
E	ECN 11212			
F	ECN 12297			



REF DWGS:
 ASSEMBLY 103751
 SPECIFICATION 103754

103751 103751 103751	103751 103751 103751	103751 103751 103751	103751 103751 103751	103751 103751 103751	103751 103751 103751	103751 103751 103751	103751 103751 103751	103751 103751 103751	103751 103751 103751	103751 103751 103751	103751 103751 103751
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PEC PRECISION ELECTRONIC CORPORATION	
TITLE SCHEMATIC READ/WRITE C	103750

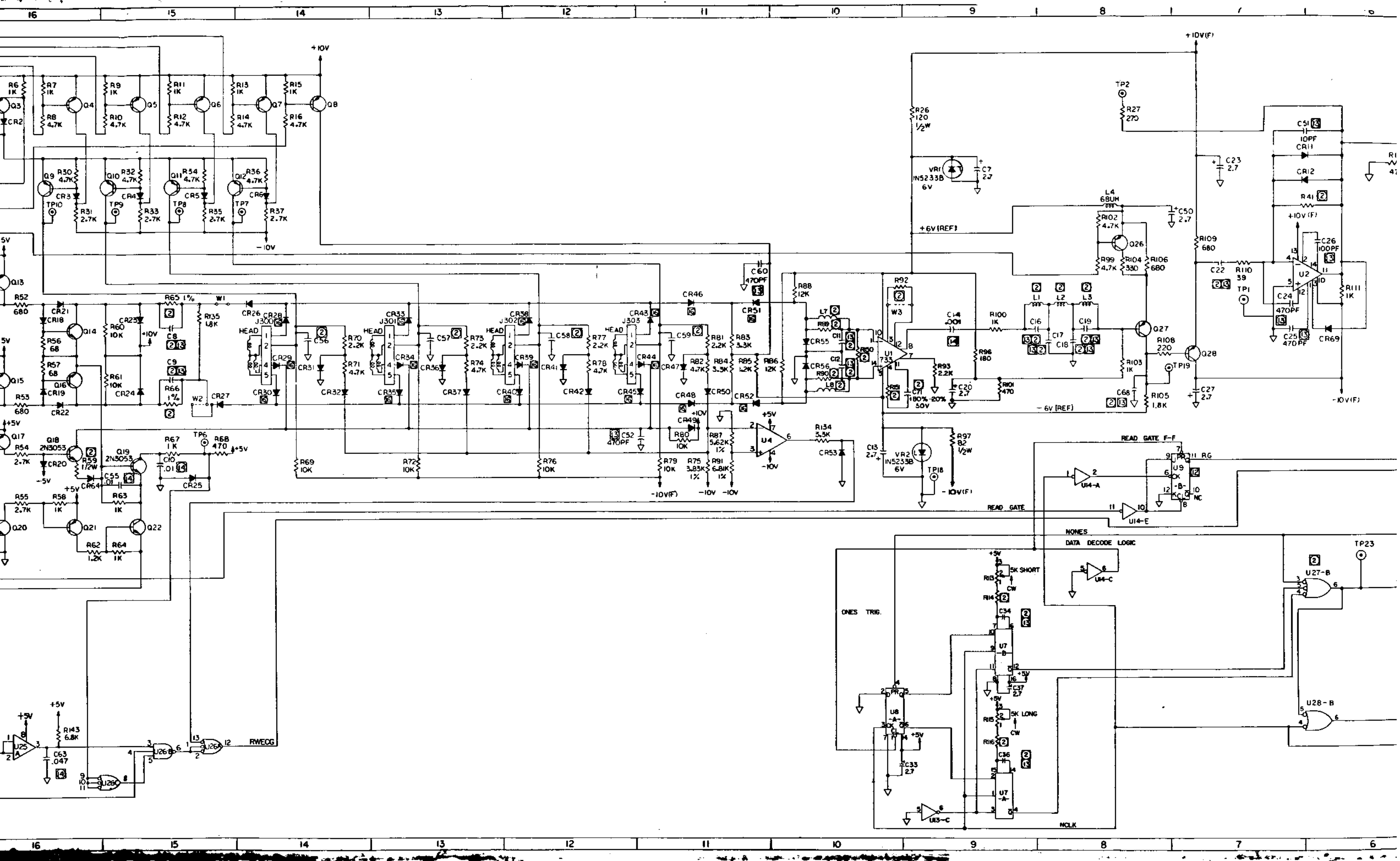


TABLE III

LAST USED	NOT USED
C78	C15,38 THRU 49,64,65,35,1 THRU 6,53,54,66,67,69,70,21
CR69	CR54,57 THRU 63,65,66,7 THRU 10,6,7,68
J305	
L8	
Q28	Q23,24,25
R60	R94,95,98,117 THRU 133,17 THRU 25,28,29,38,39,40,106, R44 THRU 149,137,138 139 THRU 142
U30	U10,19,23,5,3,6,17,20,21,24
VR2	
W3	
TP25	TP 3,4,5,11,12,13,20,21,22

TABLE III (CONT'D)

DELETED
C73

- ⑥ CR 28,29,30,33,34,35,38,39,40,43 THRU 46, 48,51,52 ARE PERTEC P/N 300-01E.
 - ⑦ PIN 8 (U7,29) IS 0V.
PIN 16 (U7,29) IS +5V.
 - ⑧ C10,14,55,63 ARE IN MICROFARADS ± 10% 100 VDC.
 - ⑨ C5,21,24,25,52,60,68,51,26,22,34,36,11,12,16,19,8,9,17,18,74, 76,77,78 ARE IN PICOFARADS, 5%, 500VDC.
 - ⑩ PIN NO. 5 (U9) IS +5V.
PIN NO. 3 (U9) IS 0V.
 - ⑪ FOR LAST USED AND DELETED REF DESIG., SEE TABLE III.
 - ⑫ CONNECTORS ARE NUMBERED FROM J300.
 - ⑬ PIN NO. 7 OF ALL IC'S IS 0V.
PIN NO. 14 OF ALL IC'S IS +5V.
 - ⑭ ALL NPN TRANSISTORS ARE 2N4123.
 - ⑮ ALL PNP TRANSISTORS ARE 2N4125.
 - ⑯ ALL DIODES ARE IN4446.
 - ⑰ ALL CAPACITOR VALUES ARE IN MICROFARADS, 20%, 35VDC.
 - ⑱ ALL RESISTOR VALUES ARE IN OHMS, 5%, 1/4W.
 - ⑲ FOR PCBA, SEE DWG. NO. 10375L
FOR SPEC., SEE DWG. NO. 103754.
 - ⑳ FOR VALUE, PART NO. AND USAGE OF COMPONENTS AFFECTED BY VERSION NO., SEE TABLE II.
 - ㉑ FOR PART NO. OF COMPONENTS NOT AFFECTED BY VERSION NO., SEE TABLE I.
- NOTES: UNLESS OTHERWISE SPECIFIED

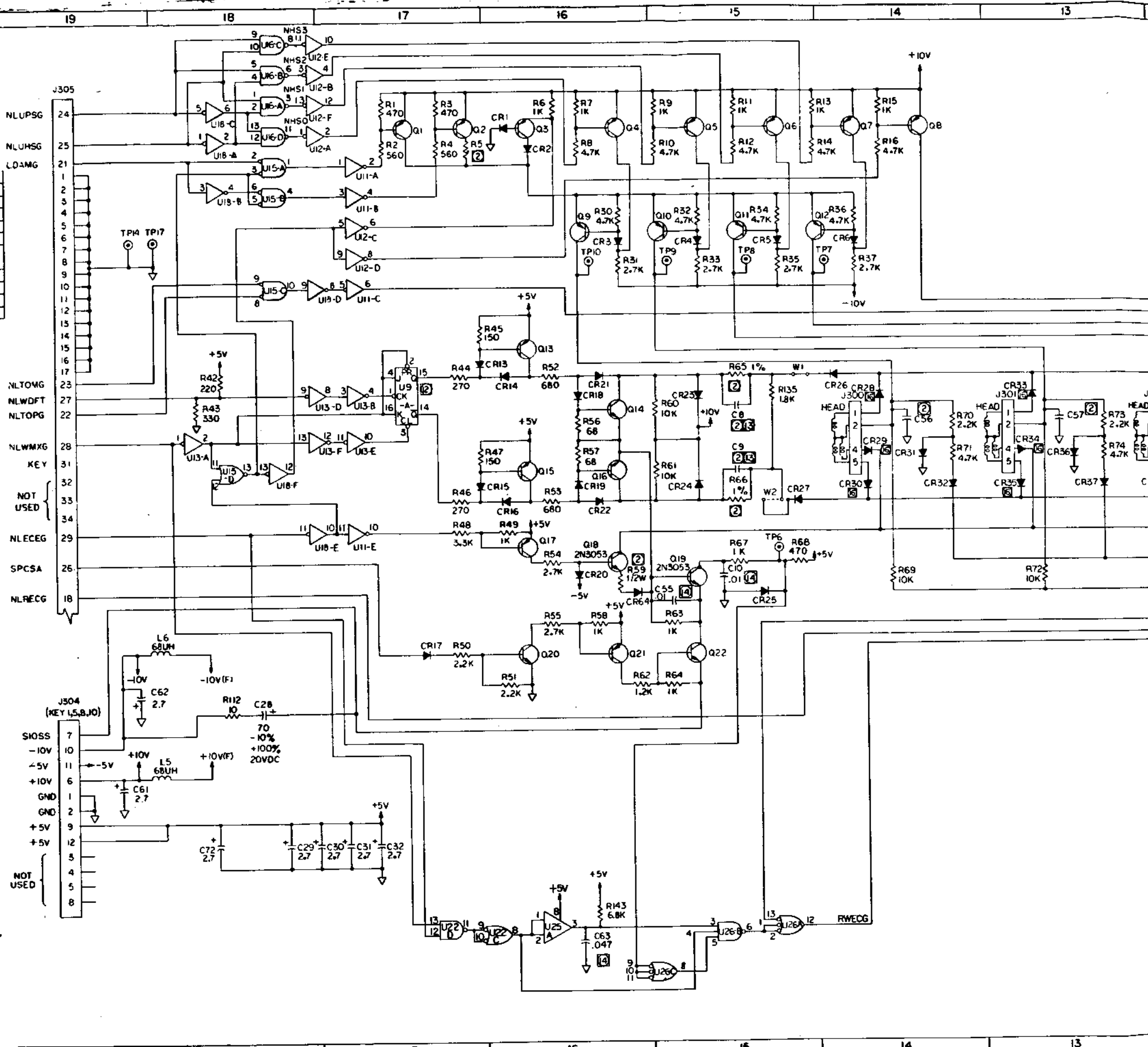


TABLE II

C17,C18		C22		C78		C34,36		C7		L7,8		C56,57,58,59		L1,L3		L2		R5		R59		R65,R66		R92		C68				
VALUE	PART NO.	VALUE	PART NO.	VALUE	PART NO.	VALUE	PART NO.	VALUE	PART NO.	VALUE	PART NO.	VALUE	PART NO.	VALUE	PART NO.	VALUE	PART NO.	VALUE	PART NO.	VALUE	PART NO.	VALUE	PART NO.	VALUE	PART NO.	VALUE	PART NO.			
330 PF	130-5605	330 PF	130-3315	OMIT				68 PF	130-6805	OMIT		OMIT		24 UH	515-2405	68 UH	515-6805	33	100-3305	100	101-1015	464	104-4640	OMIT				33 PF	130-3305	
560 PF	130-6805	560 PF	130-5615					150 PF	130-1515	OMIT		OMIT		33 UH	515-3305	68 UH	515-6805	33	100-3305	100	101-1015	464	104-4640	OMIT				47 PF	130-4705	
330 PF	130-5605	330 PF	130-3315					68 PF	130-6805	.05	135-5062	33UH	515-3305	OMIT		24 UH	515-2405	68 UH	515-6805	33	100-3305	100	101-1015	464	104-4640	OMIT			33 PF	130-3305
560 PF	130-6805	560 PF	130-5615	OMIT				150 PF	130-1515	.05	135-5062	33UH	515-3305	OMIT		33 UH	515-3305	68 UH	515-6805	33	100-3305	100	101-1015	464	104-4640	OMIT			47 PF	130-4705

PERTEC PERIPHERAL EQUIPMENT

TITLE: SCHEMATIC READ/WRITE

103721 COMPATIBLE

103721

① TABLE I

PART NO.	REF DESIGNATION
100-1005	R112
-1025	R6,7,9,11,13,15, 49,58, 63,69,100,103,111, 67
-1035	R60,61,69,72,76,79,80
-1225	R62,85
-1235	R86,88
-1515	R45,47
-1815	R96
-1825	R105,135
-2215	R42,108
-2225	R50,51, 70,73,77,81,93
-2715	R27,44,46
-2725	R31,33,35,37,54,55
-3315	R43,104
-3325	R46,83, 84,134
-3905	R110
-4705	R158,159
-4715	R1,3,68, 101
-4725	R8,10,24,46,30,32,34,36, 71,74,78,82,99,102
-5615	R2,4
-6815	R106,52,53,109
-6825	R143
100-6805	R56,57
101-1215	R26
101-8205	R97
104-2151	R156
104-5111	R152,154
104-3831	R75
104-5621	R87
104-6811	R91
121-5020	R113, 115,153, 55,157
130-1005	C51,74
130-1015	C26,
130-2205	C76,77
130-4715	C24,52,60,25

① TABLE I

PART NO.	REF DESIGNATION
131-1020	C14
131-1030	C10, 55
131-4730	C63
132-2752	C7,13,20,23,27,29,30, 31,32, 33, 37,50, 61,62,72, 75
133-7060	C28
200-3053	Q18,19
200-4123	Q14,16,20,22
200-4125	Q1 THRU Q15,15,17,21,26, 27,28
300-0115	CA23,29,30,33,34,35,39,40, 43 THRU 46,49,51,52
330-4446	CA1 THRU 6,11 THRU 27,31,32, 35,37,41,42,47,49,50,53,55, 56,64,69
331-0605	VRI,2
400-0715	U2
400-2741	U4
515-6805	L4,5,6
700-4123	U7,29
700-4740	U8
700-0001	U9
-0002	U13, 14
-0003	U22
-4000	U28
-5733	U1
-7400	U16
-7402	U15
-7404	U18
-7410	U26
-7416	U11,12
700-7545	U25
700-8020	U30
690-0022	WL2

DESCRIPTION	ASSEMBLY 103751 DASH NO.	VERSION		R41		W3		C8,C9		C11,C12		C16,C19		C17,C18	
		100 TPI	200 TPI	VALUE	PART NO.	PART NO.	VALUE	PART NO.	VALUE	PART NO.	VALUE	PART NO.	VALUE	PART NO.	VALUE
2400 RPM	-01,-05	X		4.3K	100-4325	100373-02		68 PF	130-6805	22 PF	130-2205	43 PF	130-4305	56 PF	130-5605
2200 BPI															
1500 RPM	-02,-06	X		4.3K	100-4325	100373-02		OMIT		43 PF	130-4305	56 PF	130-5605	68 PF	130-6805
2200 BPI															
2400 RPM	-03,-07		X	4.3K	100-4325	OMIT		68 PF	130-6805	22 PF	130-2205	43 PF	130-4305	56 PF	130-5605
2200 BPI															
1500 RPM	-04,-08		X	4.3K	100-4325	OMIT		OMIT		43 PF	130-4305	56 PF	130-5605	68 PF	130-6805
2200 BPI															

② TABLE II (CONT'D)

DESCRIPTION	ASSEMBLY 103751 DASH NO.	VERSION		R160		R50		R51		R89,90		R14,116,119,144W	
		100 TPI	200 TPI	VALUE	PART NO.	VALUE	PART NO.	VALUE	PART NO.	VALUE	PART NO.	VALUE	PART NO.
2400 RPM	-01,-05	X		OMIT		OMIT		OMIT		470	100-4715	5.62K	104-5621
2200 BPI													
1500 RPM	-02,-06	X				OMIT		OMIT		470	100-4715	4.64K	104-4641
2200 BPI													
2400 RPM	-03,-07		X			5.6K	100-5625	15	100-1505	OMIT		5.62K	104-5621
2200 BPI													
1500 RPM	-04,-08		X	OMIT		5.6K	100-5625	15	100-1505	OMIT		4.64K	104-4641
2200 BPI													

② TABLE II (CONT'D)

DESCRIPTION	ASSEMBLY 103751 DASH NO.	VERSION		J306	U27
		100 TPI	200 TPI	PART NO.	PART NO.
2400 RPM	-01	X		OMIT	700-4010
2200 BPI					
1500 RPM	-02	X			
2200 BPI					
2400 RPM	-03		X		
2200 BPI					
1500 RPM	-04		X	OMIT	700-4010
2200 BPI					
2400 RPM	-05	X		103662-01	OMIT
2200 BPI					
1500 RPM	-06	X			
2200 BPI					
2400 RPM	-07		X		
2200 BPI					
1500 RPM	-08		X	103662-01	OMIT
2200 BPI					

REVISIONS					
REV	DESCRIPTION	DATE	DR	CHK	APP
A	ERN 7MR PROD RISE	11/15/77	WLS	WLS	WLS
B	ECN 7511	11/15/77	WLS	WLS	WLS
C	ECN 7847	11/15/77	E	E	E
D	ECN 8069	11/15/77	M	M	M
E	ECN 8464	11/15/77	A	A	A
F	ECN 8743	11/15/77	E	E	E
G	ECN 8929	11/15/77	E	E	E
H	ECN 8961	11/15/77	E	E	E
J	ECN 9014	11/15/77	E	E	E
K	ECN 9474	11/15/77	E	E	E

① TABLE I

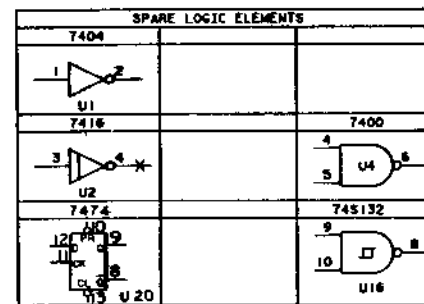
PART NO.	REFERENCE DESIGNATION
100-1025	R1, 2, 3, 30, 31, R39
100-1235	R7, 8, 9, 27
100-2735	R33
100-4725	R52
104-1001	R24
104-1002	R5, 13, 17 THRU 20, 21, 22
104-1212	R23
104-1472	R14
107-4643	R29
104-1962	R4
104-2152	R25
104-2870	R10, 11
104-3163	R26
104-3832	R6
104-7501	R12
107-5163	R28
121-2030	R15, 16
139-2244	C1, 2, C4 THRU C7
139-2261	C3
200-4123	Q7
200-4125	Q1, 2, 3
204-4393	Q4, 5, 6
300-4446	CR1 THRU 5
400-0555	U5
400-2741	U6, 7, 8, 9
700-7474	U20
700-7400	U4
700-7404	U1
700-7418	U2
700-7493	U3
THERMISTOR MOUNT ASSEMBLY 103456	
PART NO.	REFERENCE DESIGNATION
103457-01	RT2

② TABLE II

ASSY 103977 VERSION NUMBER	VERSION CHARACTERISTIC	C9 THRU C14 CR6 Q8 R34 THRU R37 U10 THRU U19	DL1	C8	J1	W1	W2
		USAGE ③	PART NO.	VALUE	PART NO.	PART NO.	PART NO.
-01	200 TP1 2200 BPI 1500RPM 2400RPM	OMIT	OMIT	—	OMIT	OMIT	100-0005 OMIT
-02	200 TP1 2200 BPI 1500RPM 2400RPM	OMIT	OMIT	—	OMIT	OMIT	100-0005
-03				—	OMIT	OMIT	OMIT OMIT
-04				—	OMIT	OMIT	OMIT OMIT
-05	200 TP1 4400 BPI 1500RPM	USE	120-0005	68 PF	130-6805	103982-01	OMIT OMIT
-06	200 TP1 4400 BPI 2400RPM	USE	120-0004	43 PF	130-4305	103982-01	OMIT OMIT

③ TABLE III

PART NO.	REFERENCE DESIGNATION
100-1525	R36
100-3915	R35
101-1015	R37
104-3161	R34
139-2244	C9 THRU 14
200-4123	Q8
300-4446	CR6
700-0132	U16, 18
700-4040	U10
700-4121	U12
700-4300	U15
700-4741	U11, 14, 17, 19
103983-02	U13



REF DESIGNATION

LAST USED	NOT USED	DELETED
C14		
CR6		
DL1		
Q8		R38,
R39		
TP12		
U20		
RT3		RT1, 3
W2		

- 8. ALL DIODES ARE 1N4446.
- 7. ALL PNP TRANSISTORS ARE 2N4125.
- 6. ALL CAPACITOR VALUES ARE IN MICROFARADS, ±20%, 20 VOLTS
- 5. ALL RESISTOR VALUES ARE IN OHMS, ±1%, 1/4WATT.
- 4. ON ALL I.C.'S PIN NO.7 IS GND AND PIN NO.14 IS +5V.

- ③ FOR PART NUMBER, SEE TABLE III
- ② FOR USAGE OF COMPONENTS AFFECTED BY VERSION NUMBER, SEE TABLE II.
- ① FOR PART NUMBER OF COMPONENTS NOT AFFECTED BY VERSION NUMBER, SEE TABLE I.

NOTES: UNLESS OTHERWISE SPECIFIED

THERMISTOR MOUNT _____ 103456
 TEMP & WRITE COMP _____ 103977
 SPECIFICATION NUMBER _____ 103980
 REFERENCE DRAWINGS _____

The information herein is the property of PERTEC CORPORATION. Its use for any other purpose without the express written consent of PERTEC is prohibited.

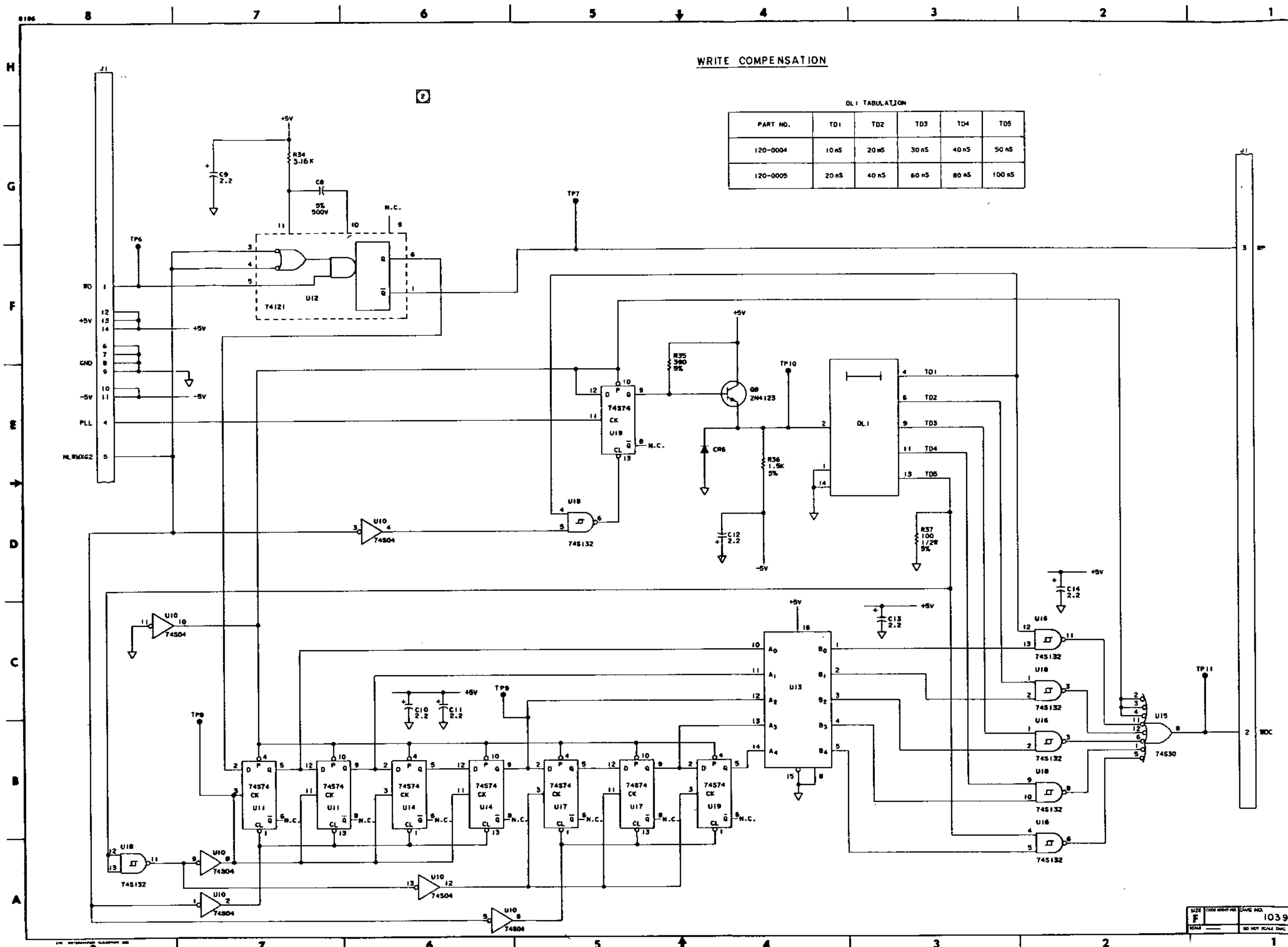
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
 TOLERANCES: ANGULAR ± 1/2°
 HOLE ± .005
 BREAK ALL SHARP CORNERS APPROX .015

SIGNATURES: DR: J.B.R. DATE: 11/15/77
 CHK: A.M. DATE: 11/15/77

TITLE: SCHEMATIC, TEMPERATURE & WRITE COMPENSATION

PERTEC PERIPHERAL EQUIPMENT

SIZE: F (100 X 150) DWG NO: 103976
 SCALE: AS SHOWN SHEET 1 OF 3

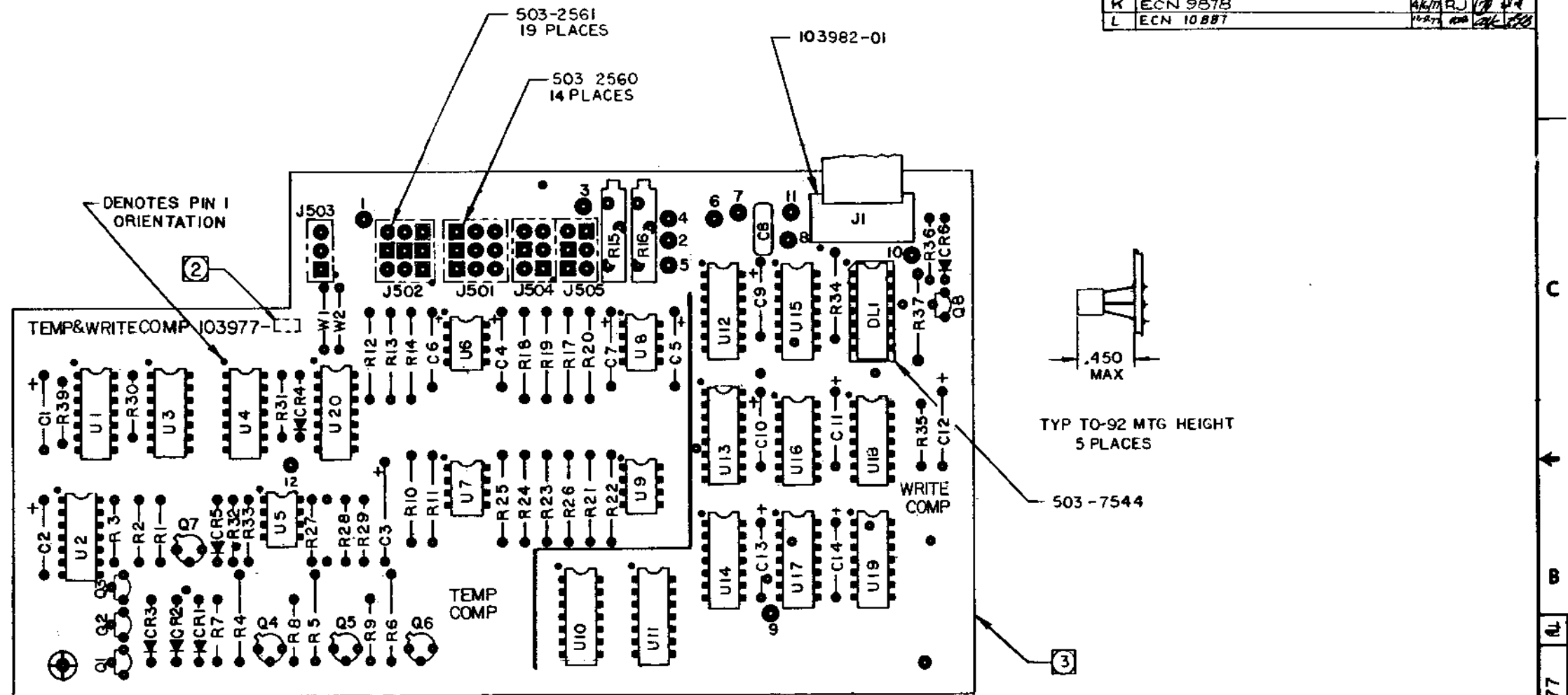


WRITE COMPENSATION

DL1 TABULATION

PART NO.	TD1	TD2	TD3	TD4	TD5
120-0004	10 nS	20 nS	30 nS	40 nS	50 nS
120-0005	20 nS	40 nS	60 nS	80 nS	100 nS

REVISIONS					
REV	DESCRIPTION	DATE	DR	CHK	APPR
A	ERN 7-44 PRODUCTION REL	8/27/78	DR	DR	DR
B	ECN 7713	9/12/78	DR	DR	DR
C	ECN 8069	10/2/78	DR	DR	DR
D	ECN 8464	10/31/78	AK	DR	DR
E	ECN 8521	11/16/78	DR	DR	DR
F	ECN 8743	12/15/78	DR	DR	DR
G	ECN 8929	1/16/79	DR	DR	DR
H	ECN 8961	2/1/79	DR	DR	DR
J	ECN 9014	2/27/79	DR	DR	DR
K	ECN 9878	4/6/79	RJ	DR	DR
L	ECN 10887	1/27/80	DR	DR	DR



SPECIFICATION 103980
SCHEMATIC 103976
REF DRAWINGS

PART NO. 103977-01 REV N

THIS ASSEMBLY SHALL BE MADE FROM PROCESS BOARD 103978-01 REV M AND SUBSEQUENT.

MARK VERSION NO. AND VERSION ISSUE LETTER.

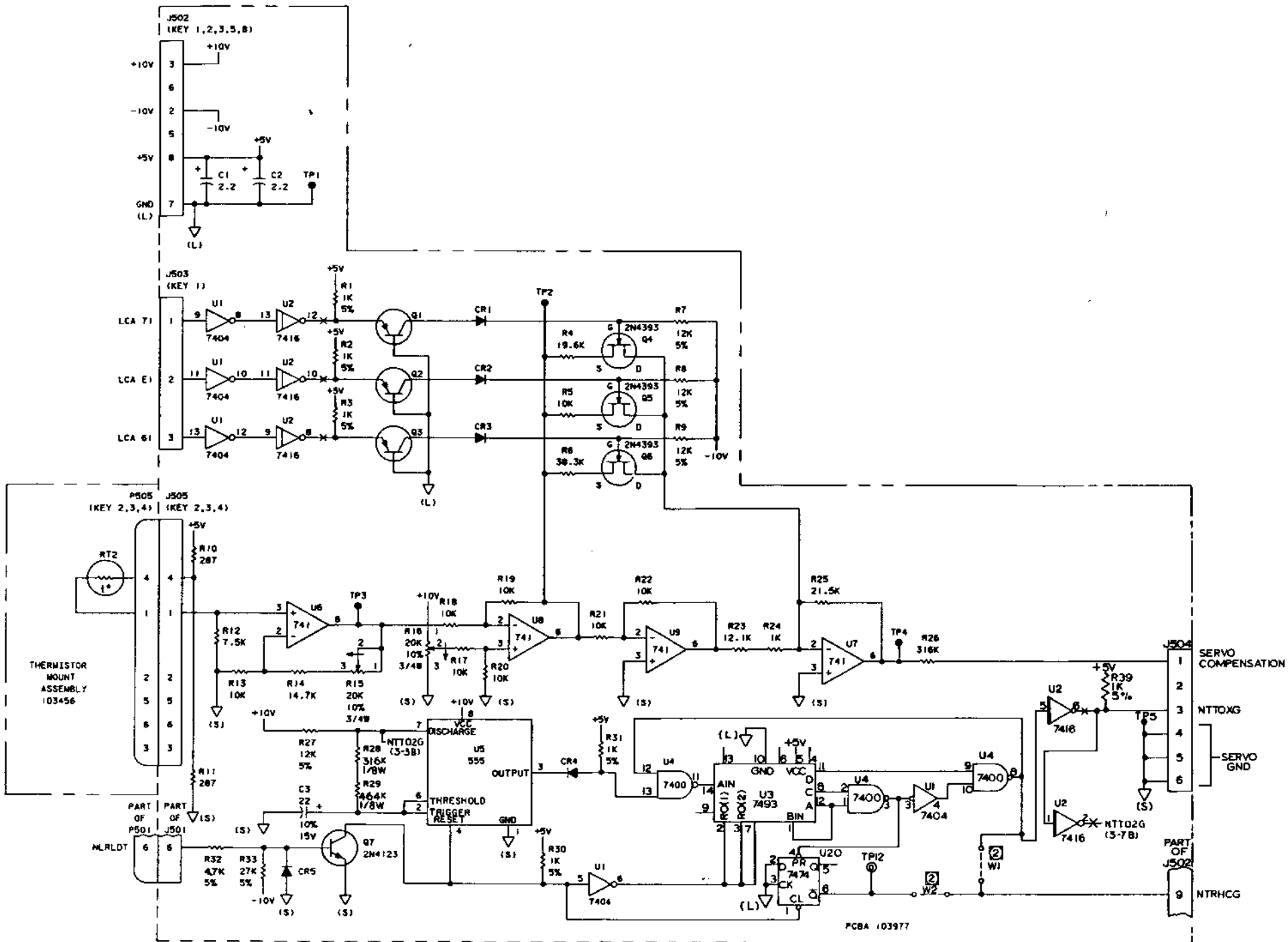
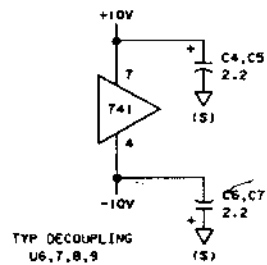
ASSEMBLE PER STANDARD MFG METHODS.

NOTES: UNLESS OTHERWISE SPECIFIED

<small>The information herein is the property of PERTEC CORPORATION. No portion of this data shall be released, disclosed, used, or modified, for procurement or manufacturing purposes, without specific written consent of PERTEC.</small>	SIGNATURES		DATE	PERTEC PERIPHERAL EQUIPMENT TITLE PCBA TEMPERATURE AND WRITE COMPENSATION
	DR	<i>[Signature]</i>	8/27/78	
	CHK	<i>[Signature]</i>	10/2/78	
	ENGR	<i>[Signature]</i>	10/31/78	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES				SIZE CODE IDENT NO DWG NO D 103977 L
TOLERANCES: XK ± ANGULAR ± 1/2° XK ± X ± X ±		FINISH:		SCALE 2/1 DO NOT SCALE DWG SHEET 1 OF 1
BREAK ALL SHARP CORNERS APPROX. 0.010		MATERIAL: SEE LM		
ISO 000				
NEXT ASSY	TR USED ON			
APPLICATION				

103977

TEMPERATURE COMPENSATION



SIZE	COR IDENT NO	DRWG NO.	REV
F		103976	1
SCALE	DO NOT SCALE DIMS		SHEET 3 OF 3

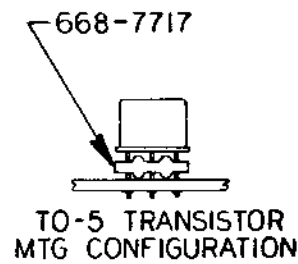
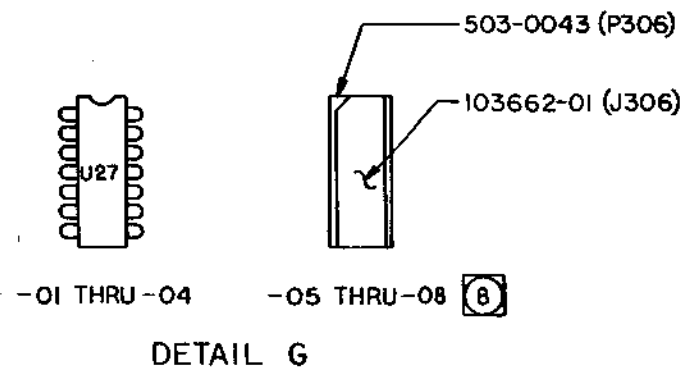
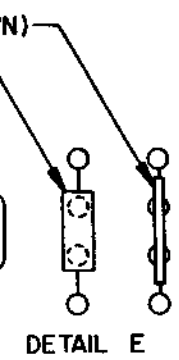
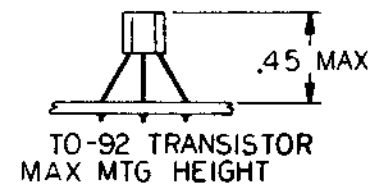
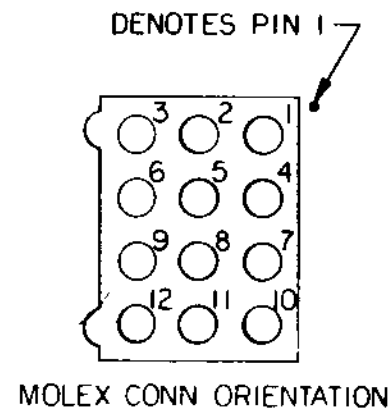
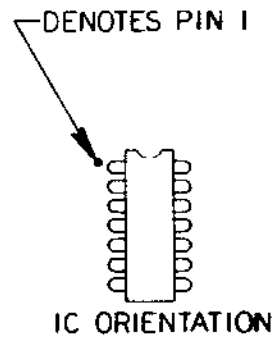
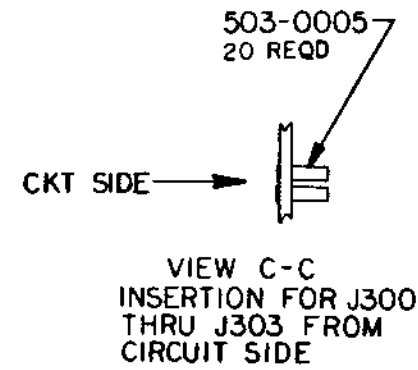
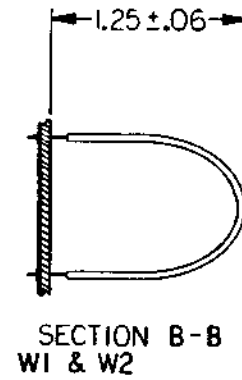
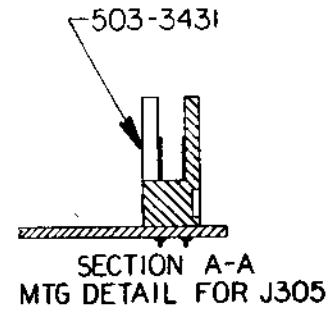
③ THIS ASSEMBLY SH
103978-01 REV M

② MARK VERSION NO.

1 ASSEMBLE PER ST

NOTES: UNLESS OTH

REVISIONS					
REV	DESCRIPTION	DATE	DR	CHK	APPR
A	ERN 7-AM PROD RELEASE	11/20/77	HLM		
B	ECN 7254	12/07/78	SDL		
C	ECN 7726				
D	ECN 8194				

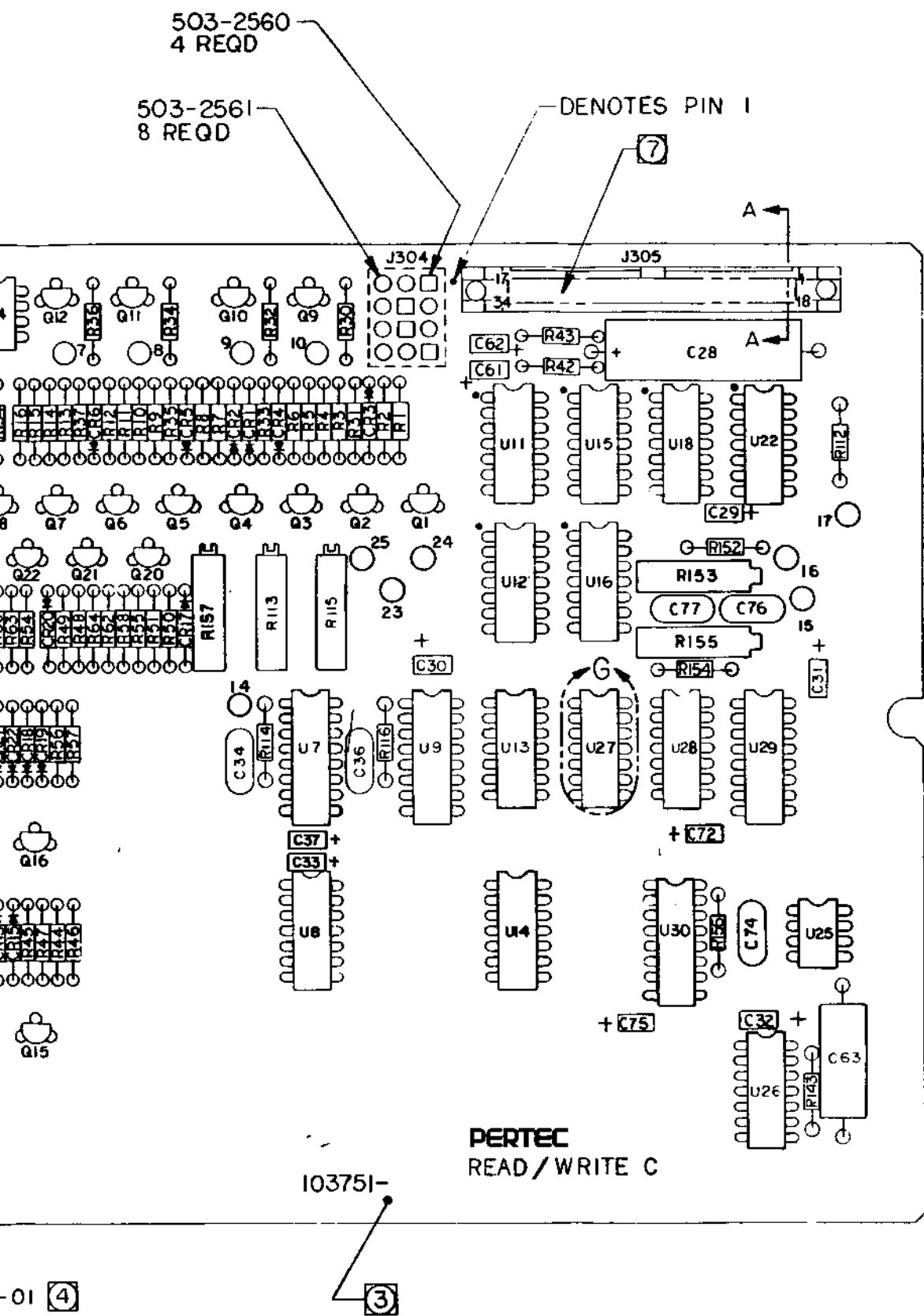


PART NO. 103751 *03 REV 7*

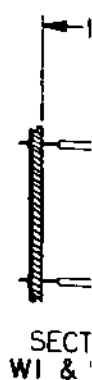
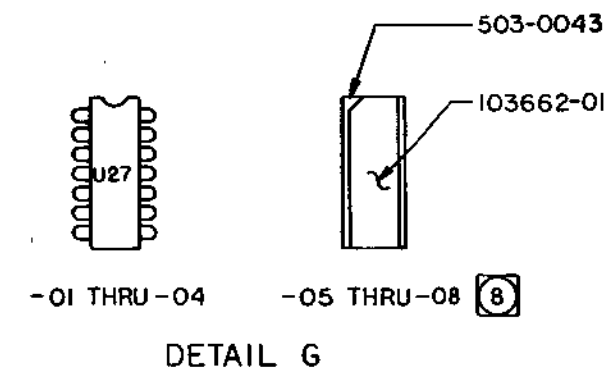
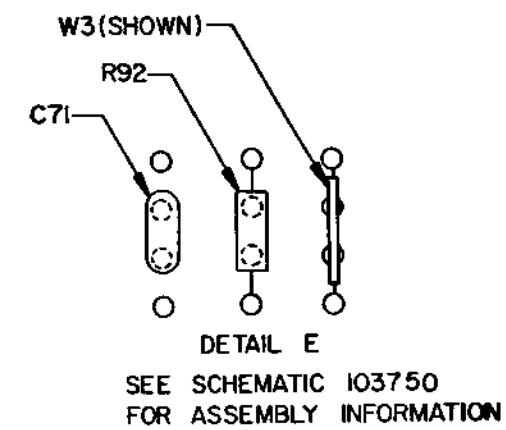
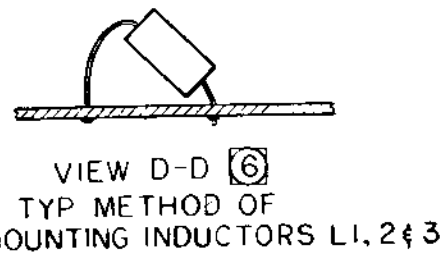
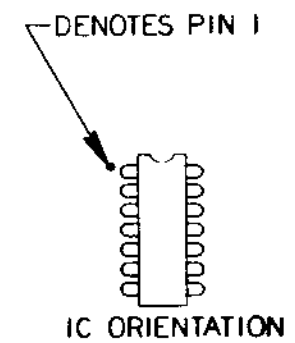
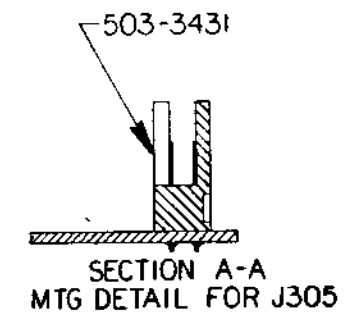
FOR ASSY VERSION INFORMATION SEE SCHEMATIC 103750
FOR LIST OF MATERIAL SEE LM103751 & APPLICABLE DASH NO.

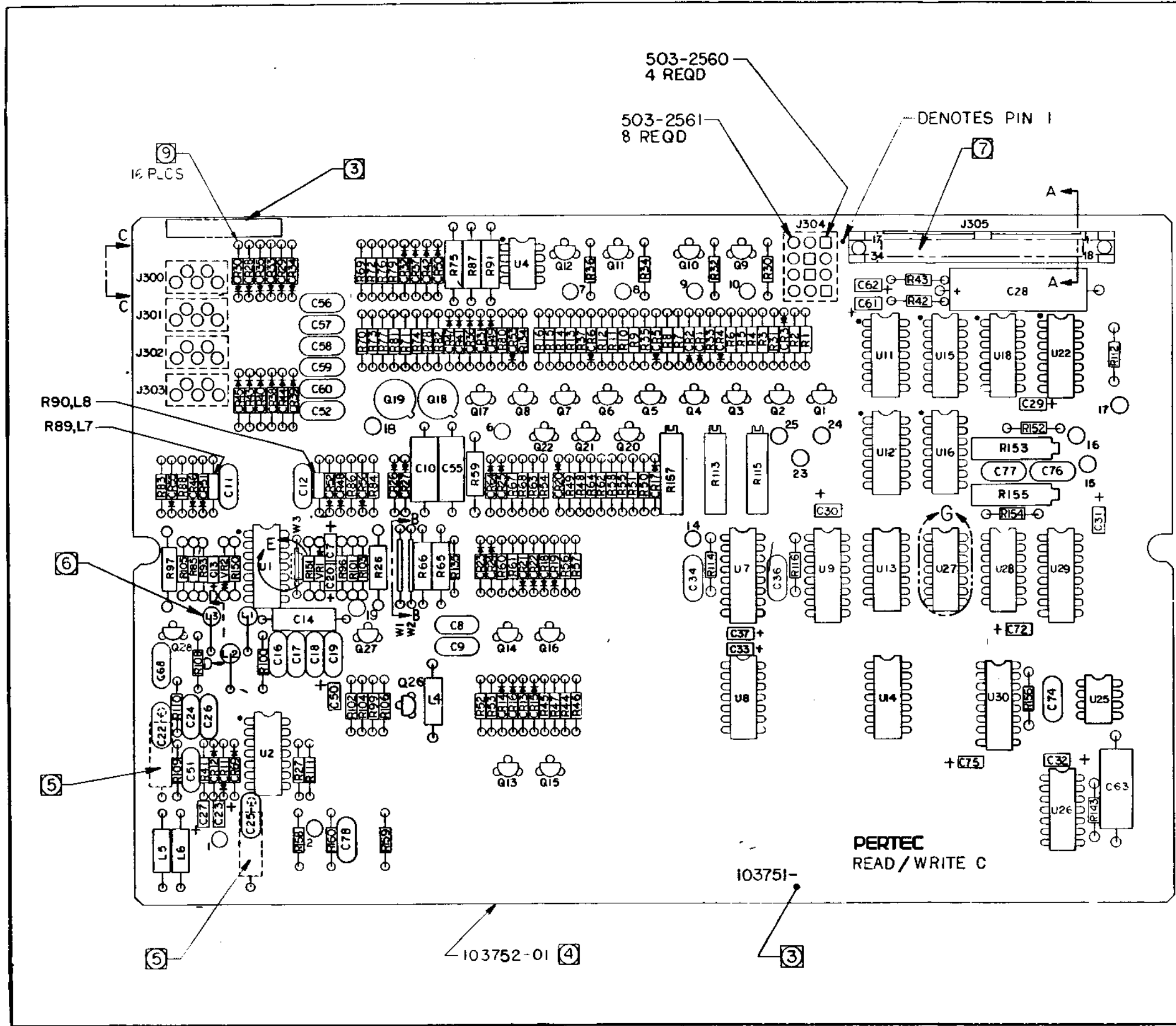
SCHEMATIC 103750
ASSEMBLY INFORMATION

TOP ASSY:	FINISH:	SIGNATURES:	DATE:	PERTEC PERIPHERAL EQUIPMENT	
NEXT ASSY:	117 USED ON:	DR:	DATE:	TITLE	
APPLICATION:		CHK:		PCBA	
		ENGR:		READ/WRITE C	
		PRO ENGR:		SIZE:	CODE IDENT NO:
				E	103751
				SCALE:	DWG NO:
				2/1	103751
				NO NOT SCALE DWG	SHEET 1 OF 1



- ⑨ ALTERNATE DIODE PN 300-4446 MAY BE SUBSTITUTED FOR PN 300-0115 ONLY WITH PRE-WRITTEN ENGINEERING APPROVAL.
 - ⑧ FOR VERSIONS -05 THRU -08 REIDENTIFY U27 AS J306.
 - ⑦ REMOVE PIN 31 FOR CONNECTOR KEYING.
 - ⑥ MOUNT L1, 2 & 3 ON END AS INDICATED IN VIEW D-D.
 - ⑤ C22 & 25 ALTERNATE CONFIGURATION SHOWN IN PHANTOM.
 - ④ THIS ASSY SHALL BE MADE FROM PROCESS BOARD 103752-01 REV C AND SUBSEQUENT.
 - ③ MARK PART ASSY VERSION NO. AND VERSION ISSUE LETTER.
2. ASSEMBLE PER STANDARD MFG METHODS.
1. REFERENCE DRAWINGS: SCHEMATIC 103750 SPECIFICATION 103754
- NOTES: UNLESS OTHERWISE SPECIFIED.





- 9 AL SU PR
 - 8 FC U2
 - 7 RE
 - 6 MC IN
 - 5 C2 SH
 - 4 TH IO
 - 3 M. AP
 - 2. AS
 - 1. RE
- NOTES

VIEW 1
TYP MET
MOUNTING 1