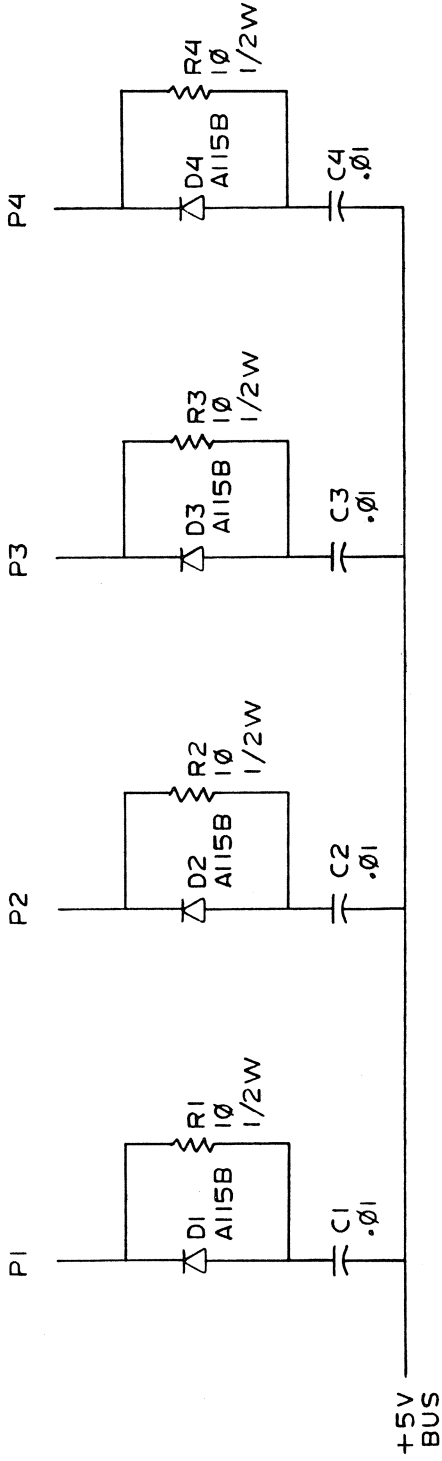


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REVISIONS	
CHK	CHANGE NO.
REV.	REV.
T.M. 5413663 - TW001	
A	
R. HEATON	
17-SEP-81	
19-0-11-0-1	

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
DATE	5-29-79		
CHK'D.	J. L. L.		
DATE	6-22-79		
ENG.	J. L. L.		
DATE	6-22-79		
PROJ. ENG.	J. L. L.		
DATE	6-22-79		
PROJ.	J. L. L.		
DATE	7-15-79		
NEXT HIGHER ASSY.			
SCALE	NONE		
SHEET	1	OF	1
FIRST USED ON OPTION/MODEL			

digital

H7140
SNUBBER BOARD

SIZE CODE	NUMBER	REV.
C CS	5413663-0-1	A
DIST.		

AUTOMATED BY PR11ST.3L(32)

PARTS LIST

SHEET A1 OF A1

LINE ITEM DOCUMENT NUMBER

PART NUMBER

DESCRIPTION

QTY PER VARIATION
00

REFERENCE DESIGNATOR

1	FORM-5013662-00	5013662-00	DRILL & FITCH BD	1	
2		1011M47-01	.01 MFD 400V 10% POLYPROP	4	C1-C4
3		1112594-01	A158 PIV=200 IS 3A	4	D1-D4
4		133016R-00	10 1/2W 5% CC	4	R1-R4
5		9137801-33	WIRE,STRND,20AWG IPVC UL1431	A/R	
6		900793C-00	TEMP RING 1POS INSULATED,22-16	4	
7		9008356-01	WIPE IDENTIFIER,(1-48)	1	

NOTE: ITEM #5, 1.33° IS USED.

REVISION HISTORY		BASIC PART NO: 5413663			
ENG: ECU NUMBER	REV	SECTION A OF A	DRN: K.FRIEDGEN	DATE: 22-MAY-79	D I G I T A L
INITIAL		SECTION VARIATION INDEX	CHK'D: J.CASEY	DATE: 19-JUL-79	T I T L E
		(A) 00			PARTS LIST
		(B)			SNUBBER BOARD ASSY
		(C)	DFS,ENG: J.A.HERMANN	DATE: 22-MAY-79	
		(D)			DOCUMENT NUMBER
		(E)			
		(F)	RESP,ENG: J.A.HERMANN	DATE: 22-MAY-79	SIZE/ CODE/ NUMBER
		(G)			REV
		(H)			
		(I)			
		(J)	MFG,ENG: F.MUNIZ	DATE: 19-JUL-79	K PL 5413663-0-DBP
		(K)			
		(L)	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	FILE NAME: EDIT *
		(M)	ID-5413663-0-0	ID-5413663-0-0	13663.PLS
		(N)			
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EUAS413615-0-0

NOTES: 1. UL APPROVAL REQUIRED.
2. DIODES ARE FOR FUTURE USE.
3. J1 AND J11 ARE TO BE MOUNTED ON
NCT TO BE INSERTED AT THIS TIME.
4. REMOVE PIN 6 BILLOPE MOUNTING CLAMP.
5. STEP AND RETAIN MT. 42.

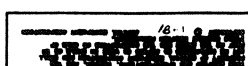
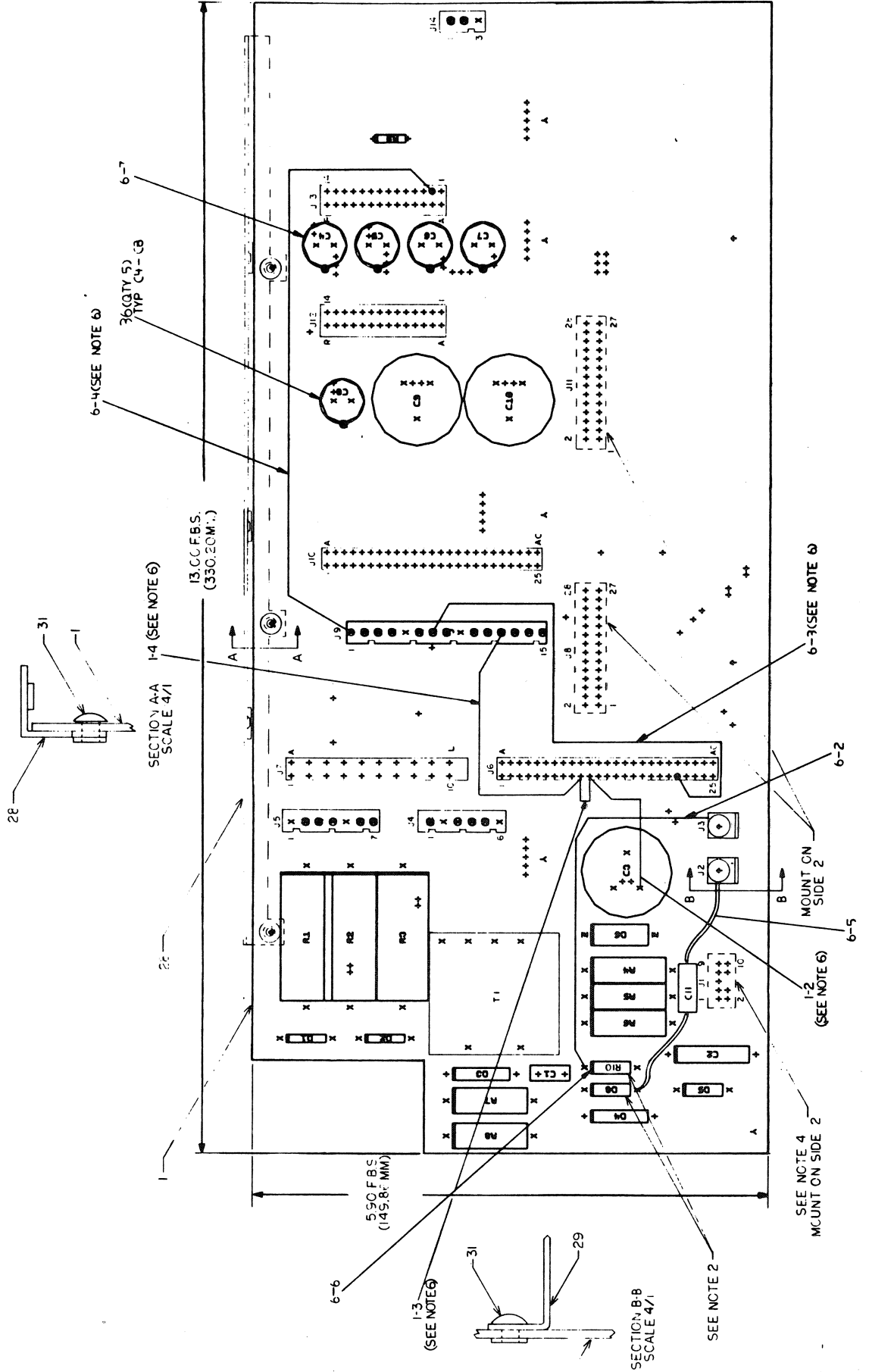
COMPONENTS	QTY	REF
RESISTORS		
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100K	1	2
1M	1	3
10M	1	4
100M	1	5
1K	1	6
10K	1	7
100K	1	8
1M	1	9
10M	1	10
100M	1	11
1K	1	12
10K	1	13
100K	1	14
1M	1	15
10M	1	16
100M	1	17
1K	1	18
10K	1	19
100K	1	20
1M	1	21
10M	1	22
100M	1	23
1K	1	24
10K	1	25
100K	1	26
1M	1	27
10M	1	28
100M	1	29
1K	1	30
10K	1	31
100K	1	32
1M	1	33
10M	1	34
100M	1	35
1K	1	36
10K	1	37
100K	1	38
1M	1	39
10M	1	40
100M	1	41
1K	1	42
10K	1	43
100K	1	44
1M	1	45
10M	1	46
100M	1	47
1K	1	48
10K	1	49
100K	1	50
1M	1	51
10M	1	52
100M	1	53
1K	1	54
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100K	1	56
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100M	1	89
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10K	1	91
100K	1	92
1M	1	93
10M	1	94
100M	1	95
1K	1	96
10K	1	97
100K	1	98
1M	1	99
10M	1	100

NOTES: 6. WIRE ON SIDE 2.

COMPONENTS	QTY	REF
RESISTORS		
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100K	1	2
1M	1	3
10M	1	4
100M	1	5
1K	1	6
10K	1	7
100K	1	8
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100M	1	95
1K	1	96
10K	1	97
100K	1	98
1M	1	99
10M	1	100

COMPONENTS	QTY	REF
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100K	1	2
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10M	1	4
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10M	1	94
100M	1	95
1K	1	96
10K	1	97
100K	1	98
1M	1	99
10M	1	100

COMPONENT SIDE VIEW



1	D-MD-5013614-0-0	5013614-00	DRILL & ETCH BD	1	C2
2		1004813-00	10 MFD 20V 10% S.TANT	1	C8
3		1012607-00	560 MFD 20V H% 672D AL EL	1	C8
4		1012607-06	390 MFD 20V H% 67D AL EL	4	C4-C7
5		1013280-00	680.0 MFD 100V 5%200PPM	1	C1
6		1014229-00	1500 MFD 16V +75-10% AL EL	2	C9,C3
7		1016169-00	5600 MFD 6.3V +75,-10% AL EL	1	C10
8		110854-00	1N 5353B VZ= 16.0V 5% .40W N	1	D5
9		1100125-00	1N 758A VZ= 10.0 5% .40W PPE	2	D1,D2
10		1112594-01	A115B PIV=200 Ia 3A	1	D6
11		1112595-01	A114B PIV=200 Ia 1A	1	D4
12		1112595-02	A114M PIV=600 Ia 1A	1	D3
13		1215341-01	HEADER 10POS VERTICAL	1	J1
14		1211004-00	SOCKET.100 28POS BOTTOM MOUNT	4	J12,J13,J11,J8
15		1211004-04	SOCKET.100 40POS	1	J7
16		1211004-05	SOCKET.100 50POS	2	J6,J10
17		1216122-01	HEADER.156 7POS KEYED	1	J5
18		1216122-02	HEADER.156 15POS KEYED	1	J9
19		1216122-04	HEADER.156 3POS	1	J14
20		1216122-05	HEADER.156 6POS	1	J4
21		1300229-00	100.0 .25 W 5.0 %	1	R9
22		1300348-00	680.0 2.0 W 5.0 %	3	R4-R6
23		1300456-00	5.60 K 2.0 W 10.0 %	2	R7,R8
24		1316207-00	3.0 K 7W+,-5%	1	R3
25		1316209-00	17.0 K 7W+,-5%	2	R1,R2
26		1616215-00	XFRM P=240/360 S=5V	1	T1
27		7422391-00	SUPPORT,MOTHER BOARD	1	J2,J3
28		9008219-00	TERM QUICK 1POS ADAPTER	2	
29		9009000-00	RYELET, ROLLED FLANGE, .121 OD X	5	
30		9107688-55	WIRE(WRAP)24AWG UL1327 A/R		

REVISION HISTORY		BASIC PART NO: 5413615	
ENG: ECO NUMBER	REV	SECTION A OF A	DRN: M.CICCONE
INITIAL	ID	SECTION VARIATION INDEX	CHK'D: E.T.GERRY
R.W.TW001	IE	(A) 00	DATE: 27-MAR-79
		(B)	DATE: 27-MAR-79
		(C)	DATE: 27-MAR-79
		(D)	DATE: 27-MAR-79
		(E)	DATE: 27-MAR-79
		(F)	DATE: 27-MAR-79
		(G)	DATE: 27-MAR-79
		(H)	DATE: 27-MAR-79
		(I)	DATE: 27-MAR-79
		(J)	DATE: 27-MAR-79
		(K)	DATE: 27-MAR-79
		(L)	DATE: 27-MAR-79
		(M)	DATE: 27-MAR-79
		(N)	DATE: 27-MAR-79
DES.ENG: R.WOLF		DATE: 27-MAR-79	SIZE: CODE: NUMBER
RESP.ENG: R.WOLF		DATE: 27-MAR-79	REV
MFG.ENG: P.WAITKUS		DATE: 6-AUG-79	PL
ASSEMBLY NUMBER: ID-0A-5413615-0-0		TOP DOCUMENT NUMBER: ID-0A-5413615-0-0	FILE NAME: 5413615-0-DBP
			EDIT # 7
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74

SHEET A2 OF A2

QTY PER VARIATION	REFERENCE DESIGNATOR
100	

D	I	G	I	T	A	L	TITLE	MOTHER BOARD	SECTION A OF A	SIZE CODE	DOCUMENT NUMBER	REV
										K	PL 5413615-0-DBP	E

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8

7

6

5

4

3

M

0-0-50931155 UN D 2

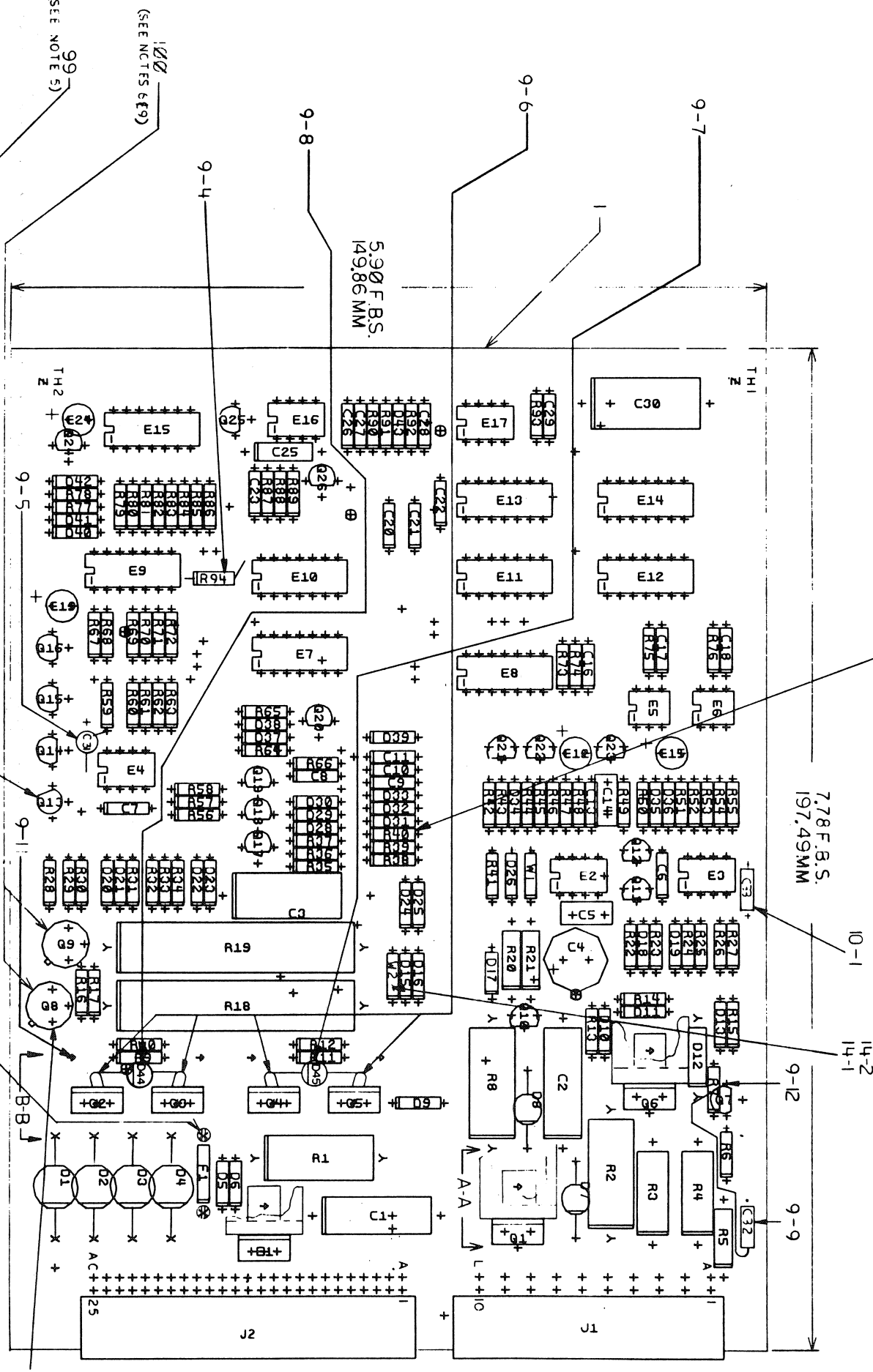
1

TOP VIEW OF Q13
VIEW C-C

98.97,111
TORQUE TO
5 IN. LB. $\pm 10\%$

VIEW B-B

94.95
100 (SEE NOTE 7)
96.103,98.97
TORQUE TO 5 IN. LB. $\pm 10\%$
(SEE NOTE 4)
72.73,78.79,89
VIEW A-A



9. ASSEMBLE Q12 OF ITEM 100
WITH SMOOTH SURFACES
TOGETHER UNDER Q8.

(SEE NOTE 5)

(SEE NOTE 8)

NOTES:

1. STEP AND REPEAT CODE 2ML 39
2. R18, R19 MUST BE RAISED .125" TO .150"
3. Q1-Q4, R1-R8 MUST BE RAISED .05" TO .10"
4. E1 AND Q1-Q6 MUST BE MOUNTED TO HEAT SINK BEFORE BEING ATTACHED TO PCB
5. SEE VIEW A-A
6. EYELET ITEM NO. 99, USED IN MOUNTING HOLES OF E1.
7. USE THERMAL COMPOUND ITEM NO. 100 UNDER Q9
8. BETWEEN E1, Q1-Q6 AND HEAT SINKS.
9. FOR INSTALLATION OF Q13 (ITEM# 69) SEE VIEW C-C.
10. STEP 6 - X Y POS 5.025 STEP 1 TIMES
11. REPEAT - X POS 7.900 STEP 1 TIMES

CHK	CHANGE NO	REV
5413605-TW4	E	
5413605-TW9	F	
5413605-TW10	H	
5413605-TW12	J	
5413605-TW14	K	
5413605-TW15	L	
5413605-TW16	M	

CHK	CHANGE NO	REV
5413605-TW4	E	
5413605-TW9	F	
5413605-TW10	H	
5413605-TW12	J	
5413605-TW14	K	
5413605-TW15	L	
5413605-TW16	M	

ETCH REV.	CPI

SIGNATURES	DATE
DRN. 0	1-4-80
MECH. ENG. 0	1-17-80
PROD. ENG. 0	1-17-80
SCALE 0	1-17-80
SHT. 1 OF 3	
NEXT HIGHER REV. B-00-5413605-0	

digital

INTERFACE BOARD

5413605-0-01 M

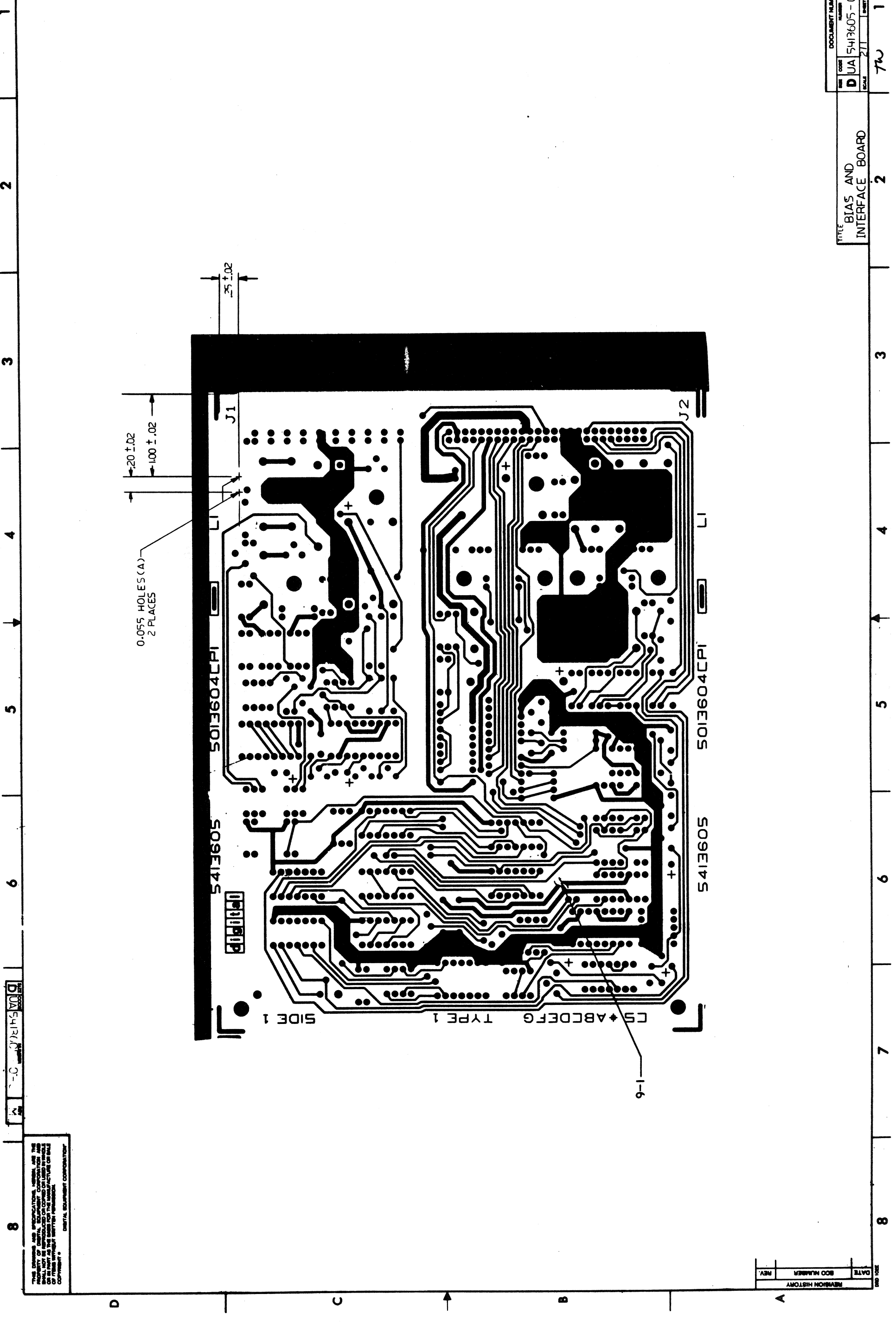
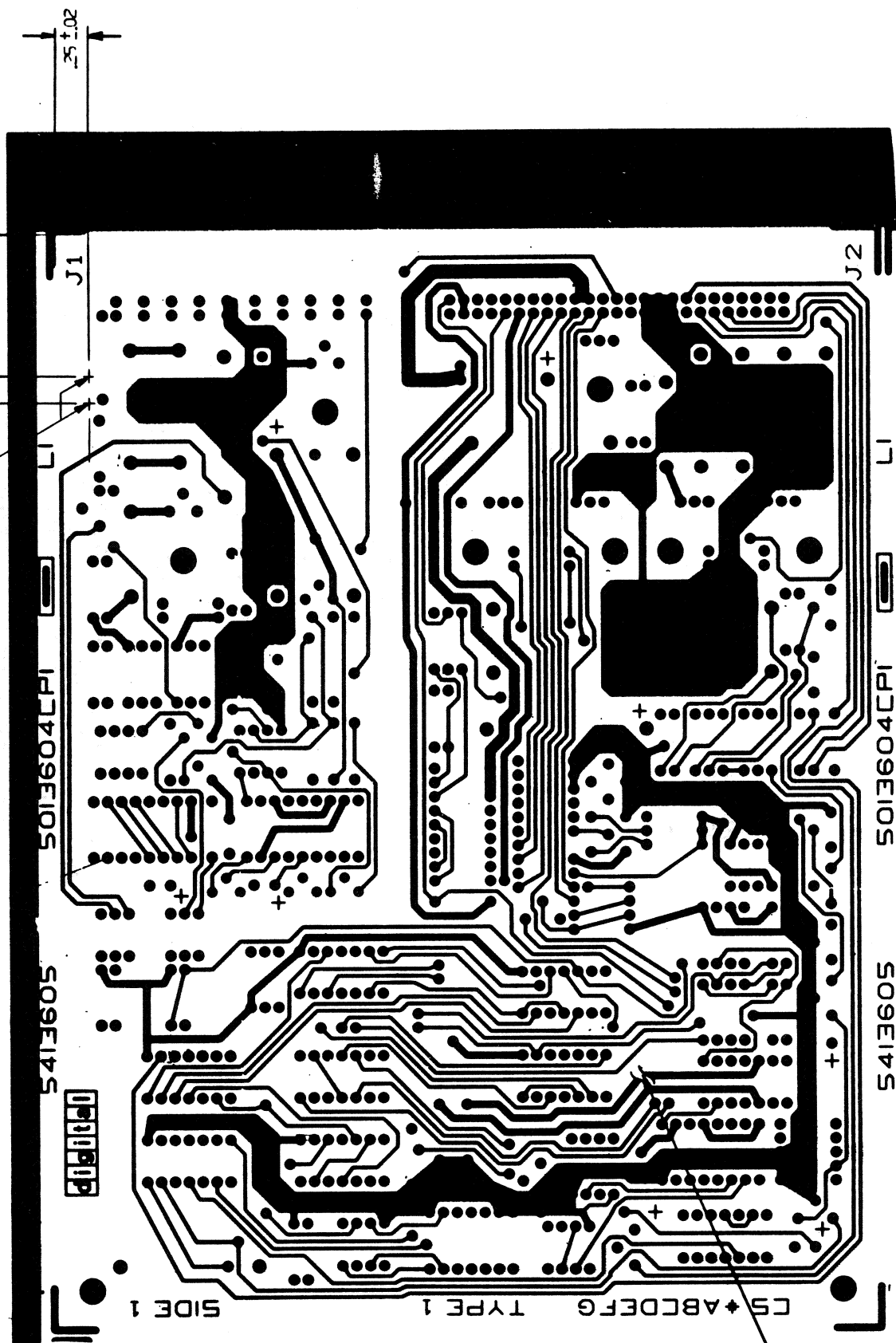
MS#171997

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DATE	REV.	ECO NUMBER

DOCUMENT NUMBER	
5413605	0-0
REV.	M
DATE	7/1
BY	7W

TITLE
BIAS AND
INTERFACE BOARD



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REWORK INSTRUCTIONS

ECO # 9

ETCH CUTS SIDE 1:

9-1 CUT ETCH FROM E9-3 TO C20.

ETCH CUTS SIDE 2:

9-2 CUT ETCH FROM Q4-C TO Q5-C.

9-3 CUT ETCH* FROM Q2-C TO Q3-C.

COMPONENT ADDS SIDE 1

9-4 INSTALL R94 ACROSS ETCH CUT 9-1 BY TACK SOLDER AS SHOWN.

9-5 INSTALL P05. END OF C91 TO END OF R59 ADJACENT TO E4 USING A .125" LENGTH OF TUBING (ITEM 110) AND SOLDERING NEG. END TO ETCH BETWEEN E4 AND Q14.

9-6 INSTALL SOLDER TERMINALS (ITEM 107) ON// COLLECTOR TABS OF Q2-Q5 USING EXISTING HARDWARE AS SHOWN.

9-7 CONNECT D45 TO TERMINALS ON Q4 AND Q5 WITH CATHODE (BLACK BAND) CONNECTED TO Q4.

9-8 CONNECT D44 TO TERMINALS ON Q2 AND Q3 WITH CATHODE (BLACK BAND) CONNECTED TO Q2.

9-9 INSTALL C32 BY DRILLING TWO .055 HOLES (AS SHOWN ON SHEET 2 OF 3 OF THE UA PRINT). AND INSTALL GRIPLET (P/N 12-10244-00) IN HOLE NEAREST EDGE CONNECTOR ONLY. TACK SOLDER TO ETCH BETWEEN R5 AND R6 ON SIDE 2.

COMPONENT DELETE SIDE 1:

9-10 REMOVE HEAT SINKS (ITEM 95) FROM Q2-Q5.

COMPONENT DELETE SIDE 2:

9-11 REMOVE FOUR(4) TAPPING SCREWS (ITEM 104) USED TO SECURE HEAT SINKS (ITEM 95).

WIRE ADDS SIDE 1:

9-12 INSTALL WIRE (ITEM 114) IN HOLE WITH GRIPLET AND CONNECT TO Q7 COLLECTOR.

REWORK INSTRUCTIONS

ECO # 10

COMPONENT ADD SIDE 1:

10-1 ADD C33 BY HAND DRILLING 2 .055 HOLES AND TACK SOLDERING ONE LEAD TO RUN THAT E3-PIN 3 IS ATTACHED TO, AND TACK SOLDERING THE OTHER LEAD TO RUN THAT IS ATTACHED TO E3-PIN 4 (BOTH CONNECTIONS SHOULD BE TACK SOLDERED ON SIDE #2).

REWORK INSTRUCTIONS

ECO # 12

COMPONENT DELETE SIDE 1

12-1 DELETE R40, DEC P/N 1300439-00.

COMPONENT ADD SIDE 1

12-2 ADD R40, DEC P/N 130890-00.

REWORK INSTRUCTIONS

ECO # 14

COMPONENT DELETE SIDE 1

14-1 REMOVE D14

WIRE ADD SIDE 1

14-2 ADD JUMPER (ITEM 102) IN PLACE OF D14.

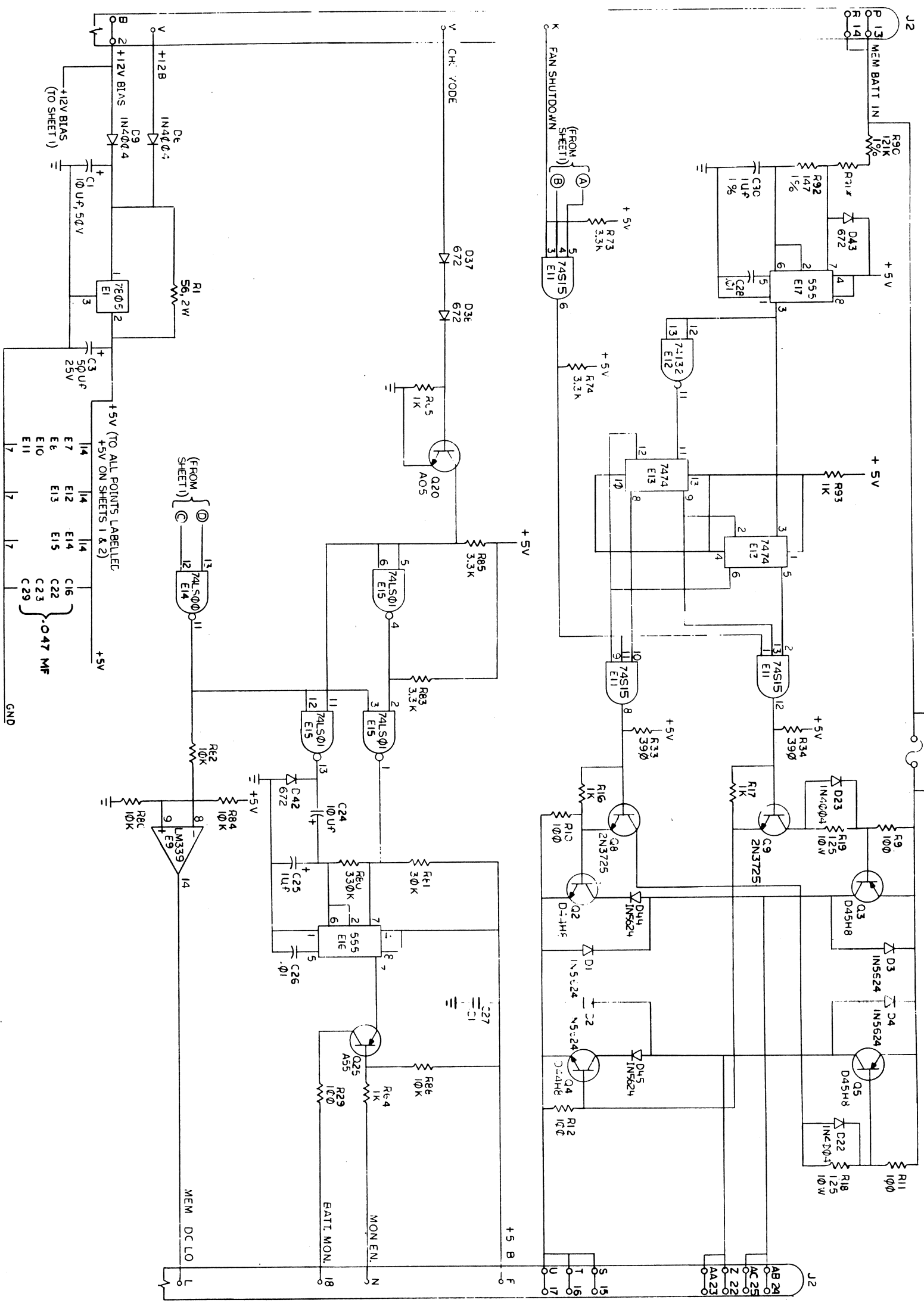
REWORK INSTRUCTIONS ECO # 16
COMPONENT DELETES SIDE 1
16-1 REMOVE Q8 P/N 15-10959-00 AND DISCARD
COMPONENT ADDS SIDE 1
16-2 ADD Q8 P/N 15-10959-00 WITH QTY 2 OF ITEM 100. PREASSEMBLED WITH SMOOTH SURFACES TOGETHER

REVISION HISTORY	
DATE	ECO NUMBER
	REV.

TITLE									
BIAS AND INTERFACE BOARD									
SCALE									
DUA 5413605-0-0									
3 OF 3									

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COMPONENT	-30	VA
DESIGNATOR	VAF	VAR
R01	5.36K	40.2K
	1%	1%



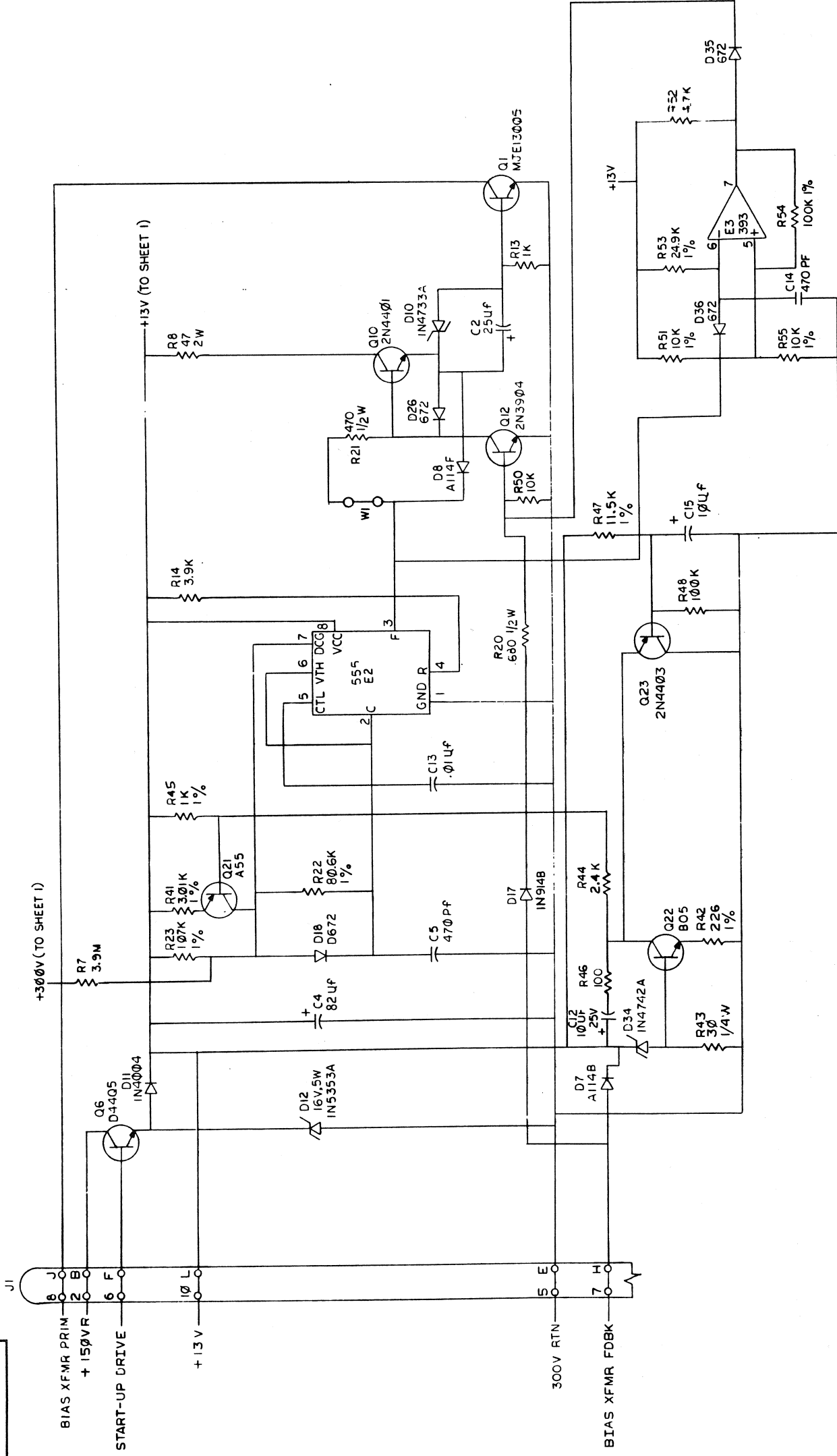
REVISIONS	REV.
CHANGES NO.	REV.

TITLE	BIAS AND INTERFACE BOARD
SCALE	SHEET 2 OF 3
SIZE CODE	D
CS	5413605-0-1
NUMBER	1
REV.	N

SIZE CODE NUMBER 5413605-0-1

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1978



REVISIONS		REV.
CHK	CHANGE NO.	

TITLE		SIZE CODE	NUMBER	REV.
BIAS AND INTERFACE BOARD		D	CS 5413605-0-1	N
SCALE		SHEET 3	OF 3	DIST.

1

2

3

4

5

6

7

8

1000 1000

1	D-MD-5013604-0-0	5013604-00	DRILL & ETCH BD	1	C5, C14
2		1000024-00	470.0 MMF 100V 5%200PPM MICA	2	C1
3		1000070-00	10 MFD 50V+100-10% AL EL	1	C2
4		1000075-00	25 MFD 25V +75-10% AL EL	1	C6, C9-C11, C13, C17, C18, C21,
5		1001610-00	.01 MFD 50V +80-20% Z5U CER	11	C26-C28
6		1001776-00	1 MFD 35V 10% S, TANT	1	C25
7		1001796-00	50 MFD 25V +75-10% AL EL	1	C3
8		1010866-02	10 MFD 25V +50-20% S, TANT	4	C12, C15, C24, C31
9		1012784-00	.047 MFD 50V +80-20% CER	6	C7, C16, C20, C22, C23, C29
10		1013252-00	82 MFD 50V+100-10% AL EL	1	C4
11		1016138-00	1 MFD 50V 1% M, POLYCARB	1	C30
12		1105275-00	D 672 TR= 15NS PIV= 60V SI	23	D15, D16, D18-D21, D24-D26, D28-D33,
13		1105796-00	1N 4004 PIV=400 I= 1.1 DO41 SP	7	D35-D38, D40-D43
14		1105871-00	1/4M5, 1A21 = 5.1 1% .25W N	1	D5, D6, D9, D11, D22, D23, D39
15		1109502-02	1N 4742A VZ= 12.0 5% 1W	1	D13
16		1109517-00	1N 9148 TR= 4NS PIV= 75V SY	1	D34
17		1109943-00	1N 4733A VZ= 5.1 5% 1W Y	1	D17
18		1110420-00	1N 5624 PIV=200 I= 5A	6	D10
19		1110854-00	1N 5353B VZ= 16.0V 5% .40W M	1	D1-D4, D44, D45
20		1112595-00	A114F PIV= 50 I= 1A	1	D12
21		1112595-01	A114B PIV=200 I= 1A	1	D8
22		1205747-00	FUSE, SUB-MINI, 5.000A, 125V, A	1	D7
23		1215112-02	PCB, HEADER 20POS(1X20).156CC 90D	1	F1
24		1216112-03	PCB, HEADER 50POS(1X50).156CC 90D	1	J1
25		1300229-00	100.0 .25 W 5.0 % CF	7	J2
26		1300309-00	390.0 .25 W 5.0 % CF	2	R9-R12, R29, R31, R46
27		1300315-00	470.0 .50 W 5.0 % CF	1	R33, R34
28		1300347-00	680.0 .50 W 5.0 % CF	1	R21
					R20

REVISION HISTORY			BASIC PART NO: 5413605		
ENG	ECO NUMBER	REV	SECTION A OF A	DRN	J. FERGUSON
EC	5413605-TW009	F	SECTION VARIATION INDEX	DATE: 16-OCT-80	
EC	5413605-TW010	H	[A] 00	DATE: 16-OCT-80	
EC	5413605-TW012	J	[B]	DATE: 16-OCT-80	
EC	5413605-TW014	K	[C]	DATE: 16-OCT-80	
EC	5413605-TW015	L	[D]	DATE: 16-OCT-80	
EC	5413605-TW016	M	[E]	DATE: 16-OCT-80	
			[F]	DATE: 16-OCT-80	
			[G]	DATE: 16-OCT-80	
			[H]	DATE: 16-OCT-80	
			[I]	DATE: 16-OCT-80	
			[J]	DATE: 16-OCT-80	
			[K]	DATE: 16-OCT-80	
			[L]	DATE: 16-OCT-80	
			[M]	DATE: 16-OCT-80	
			[N]	DATE: 16-OCT-80	

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AUTOMATED BY PRTLST.3L(40)

PARTS LIST

SHEET A2 OF A3

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
29	29		1300365-00	1.0 K .25 W 5.0 %	10	R6, R13, R16, R17, R49, R64, R65, R69, R71, R93
30	30		1300439-00	3.30 K .25 W 5.0 %	13	R38, R39, R56-R58, R66, R73-R76, R79, R83, R85
31	31		1300444-00	3.90 K .25 W 5.0 %	1	R14
32	32		1300447-00	4.70 K .25 W 5.0 %	2	R52, R87
33	33		1300479-00	10.0 K .25 W 5.0 %	12	R25, R35-R37, R50, R77, R78, R82, R84, R86, R88, R89
34	34		1301322-00	180.0 .25 W 5.0 %	1	R30
35	35		1302091-00	330.0 K .25 W 5.0 %	1	R80
36	36		1302177-00	47.0 K .25 W 5.0 %	1	R32
37	37		1302334-00	15.0 K 2.0 W 5.0 %	1	R2
38	38		1302394-00	30.0 K .25 W 5.0 %	1	R81
39	39		1302466-00	100.0 K .25 W 5.0 %	2	R28, R48
40	40		1302479-00	200.0 K .50 W 5.0 %	1	R5
41	41		1302644-00	.25 W 1.0 %	1	R42
42	42		1302645-00	.25 W 1.0 %	1	R62
43	43		1302748-00	1.10 K .25 W 1.0 %	2	R26, R45
44	44		1302751-00	1.0 K .25 W 1.0 %	1	R43
45	45		1302836-00	30.0 .25 W 5.0 %	1	R1
46	46		1302860-00	56.0 2.0 W 5.0 %	1	R47
47	47		1302874-00	11.50 K .25 W 1.0 %	1	R92
48	48		1302955-00	147.0 .25 W 1.0 %	1	R15
49	49		1303067-00	750.0 .25 W 1.0 %	1	R60
50	50		1303177-00	422.0 .25 W 1.0 %	1	R44
51	51		1303305-00	2.40 K .25 W 5.0 %	1	R70
52	52		1303322-00	6.98 K .25 W 1.0 %	1	R3, R4
53	53		1303438-00	274.0 K .75 W 1.0 %	2	R90
54	54			121.0 K .25 W 1.0 %	1	
55	55			*** THIS ITEM IS NOT USED ***	-	
56	56		1305108-00	1.47 K .25 W 1.0 %	1	R61
57	57		1305125-00	383.0 .25 W 1.0 %	1	R72
58	58		1305253-00	7.15 K .25 W 1.0 %	1	R63
59	59		1305357-00	125.0 10.0 W 5.0 %	2	R18, R19
60	60		1309419-00	19.60 K .25 W 1.0 %	1	R59
61	61		1305405-00	24.90 K .25 W 1.0 %	1	R53
62	62		1313341-00	5.36 K .25 W 1.0 %	2	R24, R91
63	63		1313775-00	80.60 K .25 W 1.0 %	1	R22
64	64		1313843-00	107.0 K .25 W 1.0 %	1	R23
65	65		1314023-00	47.0 .25 W 5.0 %	1	R8
66	66		1314041-00	3.01 K .25 W 1.0 %	2	R27, R41
67	67		1303043-00	464.0 K .25 W 1.0 %	2	R67, R68
68	68		1314387-00	3.90 M .25 W 5.0 %	1	R7
69	69		1509524-00	2N 3904 NPN 310MW SI 40 40 M	2	Q11, Q12
70	70		1517832-00	J 177 FET 360MW SI P CHNNL	1	Q13
71	71		1510705-00	XA 05 NPN 500MW SI 60 50 P	5	Q17-Q20, Q26
72	72		1510706-00	XA 55 NPN 500MW SI 60 50 P	2	Q21, Q25
73	73		1510707-00	D 44H8 NPN 25W SI 60a2A	2	Q2, Q4
73	73		1510708-00	D 45H8 PNP 50WT SI 60 60 Y	2	Q3, Q5

BLANK

D	I	G	I	T	A	L	TITLE	BIAS AND INTERFACE BD	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
										K	PL	5413605-0-DBP	M

AUTOMATED BY PRLST.3L(40)

P A R T S L I S T

SHEET A3 OF A3

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
74	74		1510959-00	2N 3725 NPN 3.5WC SI 50 60 P	2	Q8,Q9
75	75		1511686-00	DECS433 FET N 350MW 10 25 1A	4	Q14-Q16,Q24
76	76		1513489-00	2N 4401 NPN 350MW SI 40 20	1	Q10
77	77		1513490-00	2N 4403 PNP 350MW SI-40 30	1	Q23
78	78		1514271-01	D 44Q5 NPN 31W SI225 30	1	Q6
79	79		1516119-00	PNP 75W SI	1	Q1
80	80		1516121-00	MPS A92 PNP 625MW SI300 25	1	Q7
81	81		1905547-00	7474 FF-D DUAL,EDGE TRIGG	1	E13
82	82		1909004-00	DEC 7402 NOR GATE-QUAD 2IN	2	E7,E10
83	83		1910538-00	74S15 AND GATE-TRIPLE 3IN	1	E11
84	84		1910741-00	7406 INVERTER GATE-HEX 1I	1	E8
85	85		1911036-00	75453 DRIVER,PERIPH,DUAL.	1	E4
86	86		1911637-00	74132 NAND GATE-QUAD 2 IN	1	E12
87	87		1911944-00	555CN TIMER,FUNCT.BLOCK	2	E2,E16
88	88		1912108-00	339 VOLT CMPRTR,QUAD	1	E9
89	89		1912536-01	7805 VOLT REG,FIX	1	E1
90	90		1912799-00	L500 NAND-GATE-QUAD 2IN,P	1	E14
91	91		1912800-00	LS01 NAND-GATE-QUAD 2IN,P	1	E15
92	92		1914156-00	LM 393 VOLT,COMPARATOR DUAL	1	E3
93	93		1914194-00	OPTP-COUPLED ISOLATOR	2	E5,E6
94	94	C-MD-7422046-0-0	7422046-00	HEAT SINK,SINGLE	3	
95	95	BLANK		*** THIS ITEM IS NOT USED ***	-	
96	96		9006011-01	SCREW,MACH PAN PHIL 4-	3	
97	97		9006556-00	NUT,HEX 4-40X .264AF SS/N	7	
98	98		9006688-00	WASHER,HELICAL SPLIT SST	2	
99	99		9006735-00	EYELET,FUNNEL 0.0590DX0.187	2	
100	100		9007201-00	PAD,MOUNTING,COMPONENT	3	
101	101		9008268-00	COMPOUND, THERMAL JOINT	2	
102	102		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	A/R	
103	103		9009769-00	WASHER,RECTNGLR STEEL	3	W1,W2
104	104		9010128-00	SCREW,TAP PAN PHIL THD RL 4-	3	
105	105		1303312-00	10.0 K .25 W 1.0 % RN55D-F10	2	R51,R55
106	106		1303044-00	100.0 K .25 W 1.0 % RN55D-F10	1	R54
107	107		9006761-00	TERM,LUG #6STUD LOCKING 45	4	
108	108		1010978-32	.047 MFD 50V 10% CER	1	C8
109	109		1301317-00	10.0 .25 W 5.0 % CF	1	R94
110	110		9107256-00	TUBING,TEFLON .027ID	A/R	
111	111		9008301-01	SCREW,MACH PAN PHIL 4-	4	
112	112		1000043-00	1000.0 MMF 250V 20% YSF DISC	2	C32,C33
113	113		1210244-01	GRIPLET,.050 STRIP FORM UL14	1	
114	114		9105740-55	WIRE(WRAP) .25 W 5.0 % CF	A/R	
115	115		1301890-00	560.0 .25 W 5.0 %	1	R40
116	116		1911944-01	555-1 TIMER FUNCT.BLOCK,S	1	E17
117	117		1018571-00	10 MFD 25V 10% S,TANT	1	C19
118	118		1510705-01	B 05 NPN 500MW SI 60 50	1	Q22

D I G I T A L

TITLE

BIAS AND INTERFACE BD

SECTION A OF A

SIZE CODE

DOCUMENT NUMBER

REV

K PL

5413605-0-DBP

M