

B-DD-5414387-0	ROM EXPANDER BOARD
D-UA-5414387-0	ROM EXPANDER BOARD
K-PL-5414387-0-DBP	ROM EXPANDER BOARD
D-CS-5414387-0	ROM EXPANDER BOARD
B-PL-7017627-0-0	LA34/LA38 USER KIT ASSY

TITLE	SIZE	CODE	NUMBER	REV
LA34 UNIT ASSEMBLY	B	TC	LA34-0-1	C

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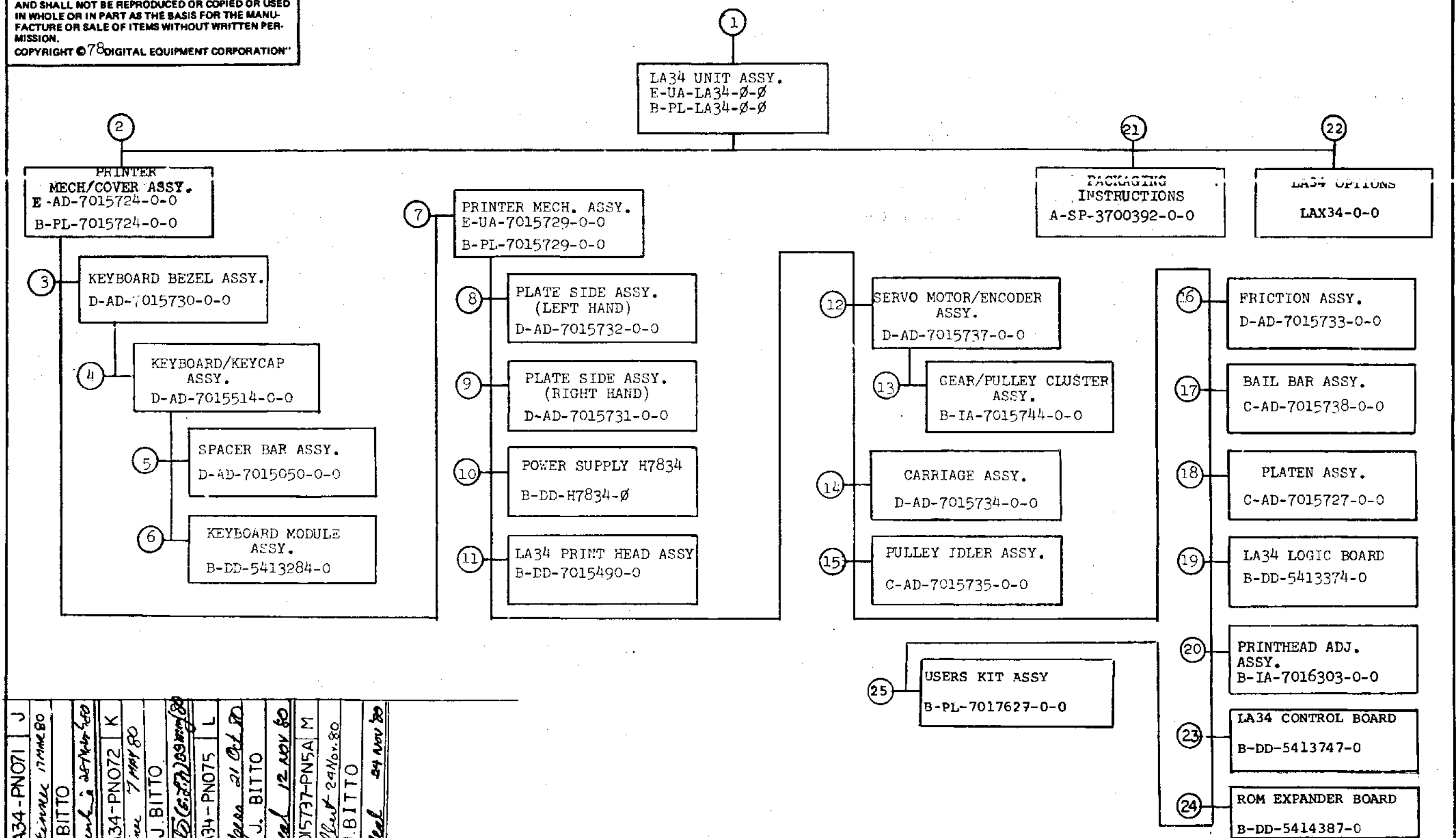
UNIT VARIATIONS	
VAR	TITLE
LA34-DA	LA34 UNIT ASSY. (CHARCOAL TRIM)
LA34-PA	LA34 UNIT ASSY. (GREY TRIM, PRIVATE BRANDS)
LA34-JA	KATA-KANA LA34
LA34-AA	LA34- UNIT ASSY. (ENHANCED-CHARCOAL TRIM)
LA34-PB	LA34- UNIT ASSY. (ENHANCED-GRAY TRIM PRIVATE BRANDS)
LA34-AB	LA34-UNIT ASSY. (ENHANCED-COMPATIBLE W/EXTENDED MEM.)

REVISIONS		REV.
CHK	CHANGE NO.	
LD	LA34-PN011	A
A. TAYLOR		
LA34-PN025		
B		
LA34-PN045		
C		
LA34-PN049		
D		
J. DESUK		
LA34-PN060		
E		
LA34-PN067		
F		
LA34-PN070		
H		
J. BITTO		
SEE SHEET 2		

USED ON OPTION/MODEL		DRN.	DATE	TITLE			
		R. FJDLK	7/13/78	LA34 UNIT ASSY.			
		CHK'D.	DATE	SIZE	CODE	NUMBER	REV
		B. J. Taylor	31 AUG '78				
		PROJ. ENG.	DATE	B	DD	LA34-D	M
		J. Taylor	8/7/79				
SHEET 1 OF 6		PROD.	DATE	DIST.			
		J. Taylor	2/7/79				

digital

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J	LA34-PN071	J. BITTO
	Skinner 17 Nov 80	
	J. BITTO	
	MBunk 25 Nov 80	
K	LA34-PN072	J. BITTO
	Skinner 7 Nov 80	
	J. BITTO	
	J. BITTO (C. 27) 09 Nov 80	
L	LA34-PN075	J. BITTO
	Budgers 21 Oct 80	
	J. BITTO	
	E.Y. Neal 12 Nov 80	
M	LA34-PN075A	J. BITTO
	E.Y. Neal 24 Nov 80	
	J. BITTO	
	E.Y. Neal 24 Nov 80	

TITLE	LA34 UNIT ASSY.	SHEET 2 OF 6	SIZE CODE	B DD	NUMBER	LA34-0	REV	M
-------	-----------------	--------------	-----------	------	--------	--------	-----	---

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE	FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
1	MP00695	LA34 PRINT SET ORDER NO. (MP)	-		A-SP-7015490-0-1	LA34 PRINT HEAD (REF)	E/M
	B-TC-LA34-0-1	LA34 FIELD MAINTENANCE PRINT SET (TC)	-				
	E-UA-LA34-0-0	LA34 UNIT ASSY	M				
	B-PL-LA34-0-0	LA34 UNIT ASSY (PL)	M				
	D-IC-LA34-0-2	INTERCONNECTION DIAGRAM	F				
	1700043-0-0	CORD, A.C. PWR	E/M	3	D-AD-7015730-0-0	KEYBOARD BEZEL ASSY.	M
	3616153-0-0	LABEL, 230V A.C. 50/60 HZ	#		1215297-0-0	BEZEL, KEYBOARD	M
	B-PL-LA34-0	LA34 SHIPPING LIST	-		1215053-0-0	CLOSURE, OPTION	M
	3611448-0-0	LABEL, WARNING A.C. CORD	#		1215295-0-0	PLUG, KEY SWITCH	M
	3616157-0-0	LABEL, CORRECT VOLTAGE SETTING	#		3615450-0-0	LEGEND STRIP	M
	A-SP-LA34-0-3	BASIC LA34 PRINT QUALITY SPEC	M				
	3612520-0-0	TAG, HANG, CAUTION	#				
	A-SP-LA34-0-4	BASIC LA34 PRODUCT SPECIFICATION	E/M				
	A-SP-LA34-0-12	LA34-JA KATA-KANA PRODUCT SPECIFICATION	-				
				4	D-AD-7015514-0-0	KEYBOARD/KEYCAP ASSY.	E/M
					C-MD-7420120-0-0	CLIP, EQUALIZER	M
					C-IA-7015741-0-0	CABLE, KEYBOARD ASSY.	E/M
					1214333-0-0	CAPS, KEY SET	M
					1214332-0-0	ADAPTER, KEY CAP	M
	A-SP-LA34-0-11	LA34 SPECIFICATIONS & VERIFICATION PROCEDURE	M				
				5	D-AD-7015050-0-0	SPACER BAR ASSY	M
					B-MD-7420119-0-0	BRACKET, SPACER BAR	M
					1211857-0-0	BAR, SPACE	M
					1211858-0-0	BAR, EQUALIZER	M
					1211860-0-0	ADAPTER, SPACE BAR	M
2	E-AD-7015724-0-0	PRINTER MECH./COVER ASSY	E/M				
	B-PL-7015724-0-0	PRINTER MECH./COVER ASSY (PL)	E/M				
	C-IA-7015386-0-0	CABLE ASSY EIA	E/M	6	B-DD-5413284-0	KEYBOARD MODULE ASSY	E/M
	B-IA-7016304-0-0	MAGNET	M				
	1215296-0-0	BASE, HOUSING	M				
	1215292-0-0	INSERT, REAR	M				
	1215451-0-0	PLUG, BUTTON	M				
	3616153-0-0	LABEL, PWR REQUIREMENTS	M				
	1215291-0-0	COVER, HOUSING	M				
	1215551-0-0	PLUG, TRACTOR	M				
	1215293-0-0	GUIDE, PAPER EDGE	M				
	1215299-0-0	BEZEL, TOP	M				
	1215298-0-0	COVER, ACCESS	M				
	3615634-0-0	LABEL, COLUMN INDICATOR	M				
	3616155-0-0	LABEL, RIBBON CARTRIDGE SWITCH	M				
	1215719-0-0	WINDOW, SAFETY	M				
	1215479-0-0	LOGO	M				

TYPE: E ELECTRICAL
M MECHANICAL
E/M ELECTRO/MECHANICAL

digital

TITLE
LA34 UNIT ASSY.

SHEET 3 OF 6
SIZE CODE
B DD

NUMBER
LA34-0

REV
M

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE	FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
19	B-DD-5413374-0	LA34 LOGIC BOARD	E/M				
20	B-IA-7016303-0-0 1216035-0-0 B-MN-7016303-0-0	PRINT HEAD ADJ. ASSY SLIDE, HD. ADJUSTMENT LEVER, HD. ADJ.	M M M				
21	A-SP-3700392-0-0	INSTRUCTIONS, PACKAGING	M				
22	LAX34-0-0 B-DD-LAX34-AL B-DD-LAX34-CL B-DD-LAX34-KL B-DD-LAX34-LL B-DD-LAX34-ML B-DD-LAX34-PL B-DD-LAX34-RL B-DD-LAX34-SL B-DD-LAX34-SN B-DD-LAX34-XL B-DD-LAX34-UP B-DD-LAX34-PC	OPTIONS LA34 TRACTOR OPTION 20 MA OPTION KEYPAD PAPER LOW OPTION MODEM/DAA OPTION PAPER OUT SWITCH KIT ROLL PAPER HOLDER STAND LA34/LA38 HARDWARE KIT FOR LAX34-SL EXTENDED LOGIC UPGRADE KIT PAPER CATCHER	E/M E/M E/M E/M E/M E/M E/M E/M E/M E/M E/M E/M E/M M				
23	B-DD-5413747-0-0	LA34 CONTROL BOARD	E/M				
24	B-DD-5414387-0-0 D-IA-701370-0-0	ROM EXPANDER BOARD CABLE ASSEMBLY					
25	B-PL-7017627-0-0	USERS KIT ASSY	M				

EN-01062-2C-16-R376(325)

TYPE: E ELECTRICAL
M MECHANICAL
E/M ELECTRO/MECHANICAL



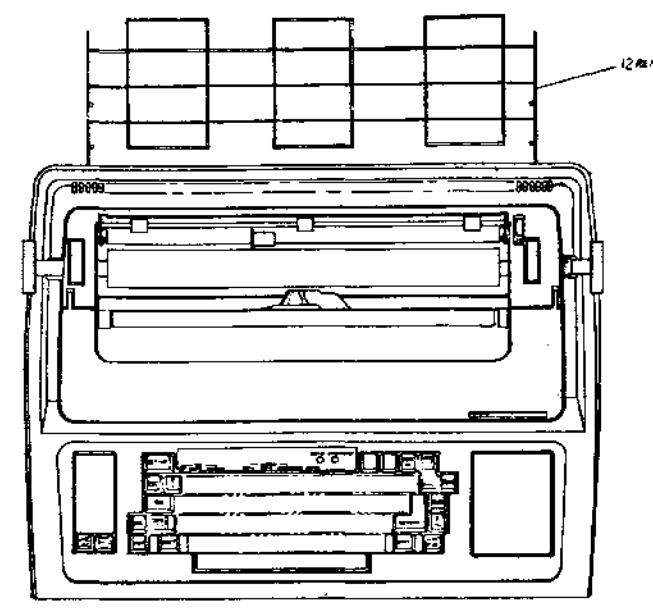
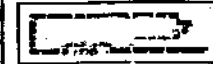
TITLE
LA34 UNIT ASSY.

SHEET OF 6

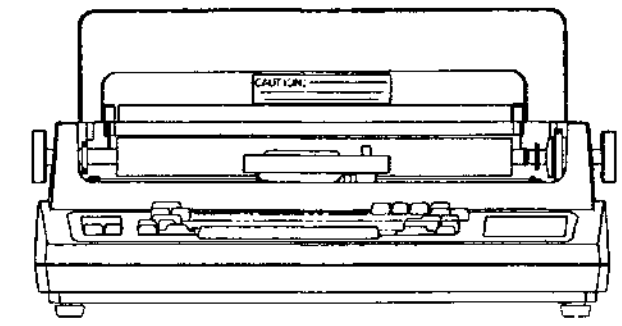
SIZE CODE
B DD

NUMBER
LA34-0

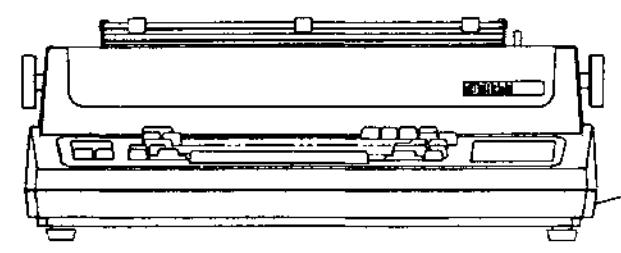
REV
M



TOP VIEW

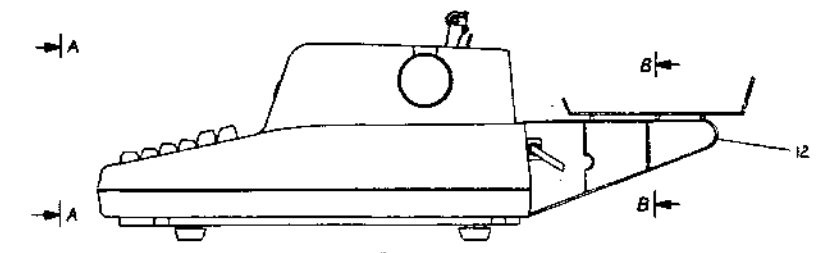


VIEW A-A
VIEW SHOWN WITH ACCESS COVER RAISED

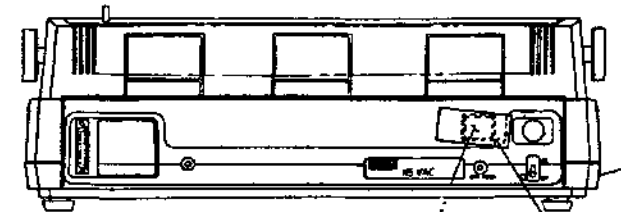


FRONT VIEW

11
OR
1
OR
13
OR
6
OR
14

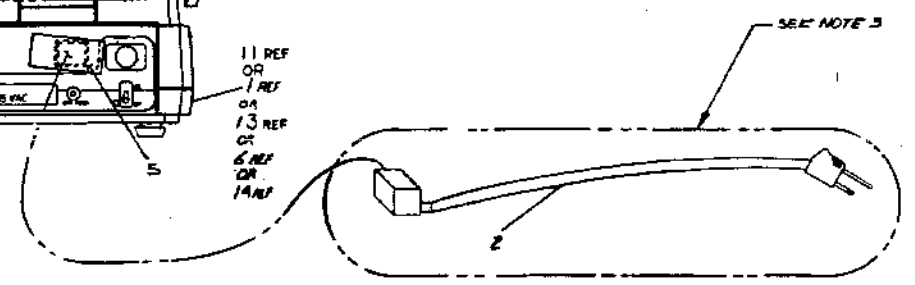


SIDE VIEW



VIEW B-B

11 REF
OR
1 REF
OR
13 REF
OR
6 REF
OR
14 REF



- NOTES:
- FOR INTERCONNECTION DIAGRAM REFER TO D-IL-LA34-0-2.
 - MOVE CARRIAGE TO LEFT HAND STOP, SECURE WITH CABLE TIE ITEM #2, THE PRINTED CAUTION PLATE (ITEM #6) SECURELY TO THE CABLE TIE.
 - PLACE AC POWER CORD ITEM #2, POWER REQUIREMENT LABEL ITEM #3 AND FUSE, PART OF ITEM #3 IN SEPARATE PACKAGE PER PACKING INSTRUCTIONS ITEM #5.
 - ITEM #2, PAPER CATCHER IS OPTIONAL.
 - ITEM #3, FCC CARTON LABEL, IS REFERENCED ON THE PACKAGE IDENTIFICATION, ITEM #200-911-0-0.

1	LA34-0-0	UNIT ASSY	1
2	LA34-0-0	POWER CORD	1
3	LA34-0-0	POWER REQUIREMENT LABEL	1
4	LA34-0-0	FUSE	1
5	LA34-0-0	CAUTION PLATE	1
6	LA34-0-0	PAPER CATCHER	1
7	LA34-0-0	KEYBOARD	1
8	LA34-0-0	CONTROL PANEL	1
9	LA34-0-0	PRINTING MECHANISM	1
10	LA34-0-0	UNIT HOUSING	1
11	LA34-0-0	UNIT HOUSING COVER	1
12	LA34-0-0	UNIT HOUSING LID	1
13	LA34-0-0	UNIT HOUSING BOTTOM	1
14	LA34-0-0	UNIT HOUSING FRONT	1
15	LA34-0-0	UNIT HOUSING REAR	1
16	LA34-0-0	UNIT HOUSING LEFT SIDE	1
17	LA34-0-0	UNIT HOUSING RIGHT SIDE	1
18	LA34-0-0	UNIT HOUSING TOP	1
19	LA34-0-0	UNIT HOUSING BOTTOM	1
20	LA34-0-0	UNIT HOUSING FRONT	1
21	LA34-0-0	UNIT HOUSING REAR	1
22	LA34-0-0	UNIT HOUSING LEFT SIDE	1
23	LA34-0-0	UNIT HOUSING RIGHT SIDE	1
24	LA34-0-0	UNIT HOUSING TOP	1
25	LA34-0-0	UNIT HOUSING BOTTOM	1

FOR PARTS LIST SEE K-PL-LA34-0-08P

QTY	DESCRIPTION	REF	QTY	DESCRIPTION	REF
1	UNIT ASSY	1	1	UNIT ASSY	1
1	POWER CORD	2	1	POWER CORD	2
1	POWER REQUIREMENT LABEL	3	1	POWER REQUIREMENT LABEL	3
1	FUSE	4	1	FUSE	4
1	CAUTION PLATE	5	1	CAUTION PLATE	5
1	PAPER CATCHER	6	1	PAPER CATCHER	6
1	KEYBOARD	7	1	KEYBOARD	7
1	CONTROL PANEL	8	1	CONTROL PANEL	8
1	PRINTING MECHANISM	9	1	PRINTING MECHANISM	9
1	UNIT HOUSING	10	1	UNIT HOUSING	10
1	UNIT HOUSING COVER	11	1	UNIT HOUSING COVER	11
1	UNIT HOUSING LID	12	1	UNIT HOUSING LID	12
1	UNIT HOUSING BOTTOM	13	1	UNIT HOUSING BOTTOM	13
1	UNIT HOUSING FRONT	14	1	UNIT HOUSING FRONT	14
1	UNIT HOUSING REAR	15	1	UNIT HOUSING REAR	15
1	UNIT HOUSING LEFT SIDE	16	1	UNIT HOUSING LEFT SIDE	16
1	UNIT HOUSING RIGHT SIDE	17	1	UNIT HOUSING RIGHT SIDE	17
1	UNIT HOUSING TOP	18	1	UNIT HOUSING TOP	18
1	UNIT HOUSING BOTTOM	19	1	UNIT HOUSING BOTTOM	19
1	UNIT HOUSING FRONT	20	1	UNIT HOUSING FRONT	20
1	UNIT HOUSING REAR	21	1	UNIT HOUSING REAR	21
1	UNIT HOUSING LEFT SIDE	22	1	UNIT HOUSING LEFT SIDE	22
1	UNIT HOUSING RIGHT SIDE	23	1	UNIT HOUSING RIGHT SIDE	23
1	UNIT HOUSING TOP	24	1	UNIT HOUSING TOP	24
1	UNIT HOUSING BOTTOM	25	1	UNIT HOUSING BOTTOM	25

LA34 UNIT ASSY
SCALE 1/2"
REV 1

DIGITAL EQUIPMENT CORPORATION PARTS LIST

QUANTITY / VARIATION

NOTES:

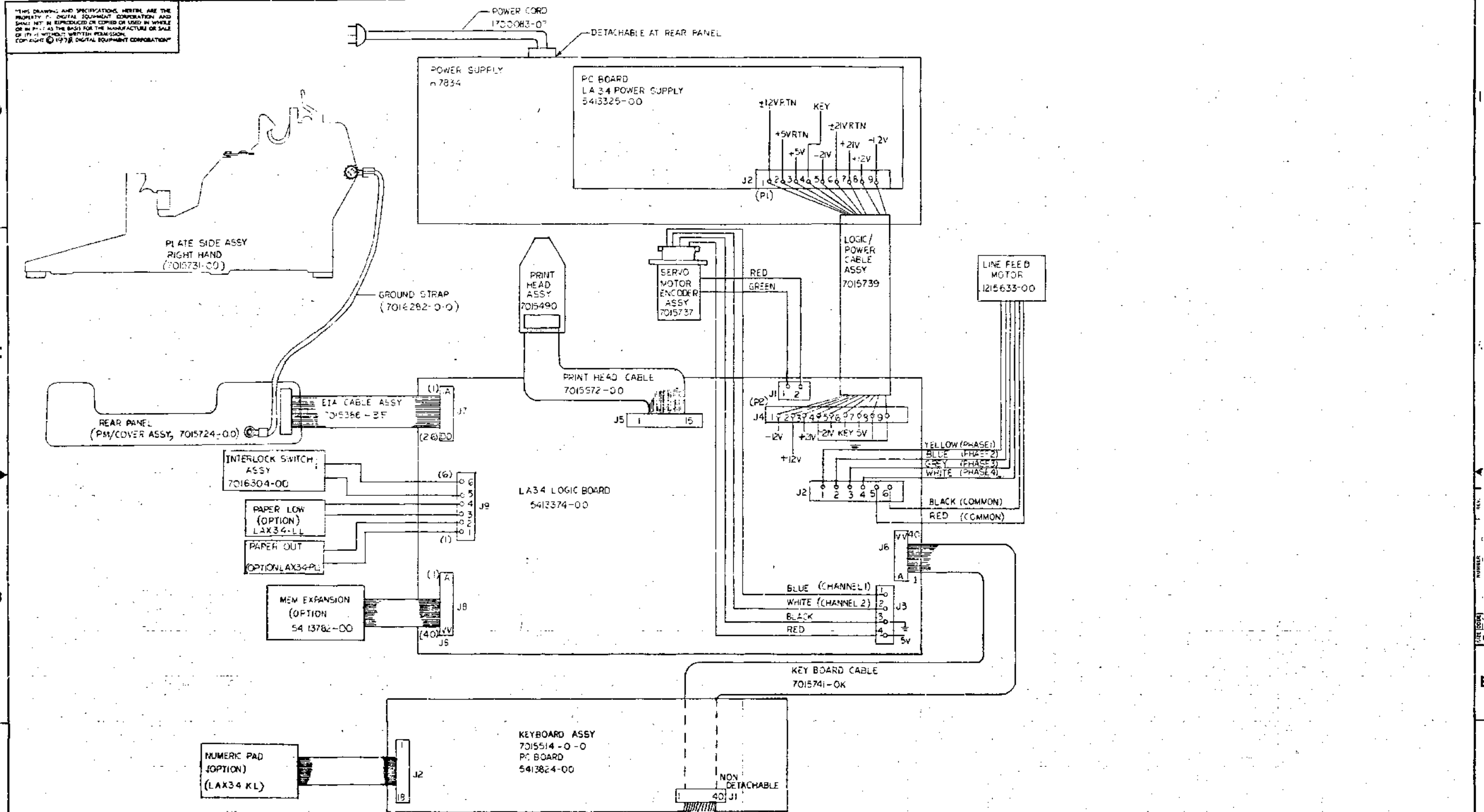
MADE BY DATE	D. PUDELKO 31 JUL '78	CHECKED <i>D. Ward</i> DATE <i>6 FEB 79</i>	SECTION 1
ENG <i>R. Coutonanche</i> DATE <i>6 FEB 79</i>	PROD DATE <i>6 FEB 79</i>	ISSUED SECTION 1	

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	LA34-DA	REF DESIGNATION
1	E-AD-7015724-0-0	7015724-00	PRINTER MECH/COVER ASSY.	1	
2		1700083-11	CORD, POWER A.C.	1	
3		9007032-00	TIE, CABLE	1	
4		3612520-00	TAG, HANG, PRINTED "CAUTION"	1	
5		3616157-00	LABEL, CORRECT VOLT SETTING	1	
6		3611448-00	LABEL, WARNING A.C. CORD	1	
7	LB-PL-LA34-Ø		SHIPPING LIST LA34	1	
8	A-SP-3700392-0-0	3700392-00	INSTRUCTIONS, PACKAGING	1	
9	D-IC-LA34-Ø-2		DIAGRAM, INTERCONNECTION	REF	
10		3616153-01	LABEL, PWR REQ. 230VAC	1	

E.C.O. NO.

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		SHEET 1 OF 1	INSERTION PARTS LIST DATA BASE REV			

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REV.	DESCRIPTION
1	ORIGINAL
2	CHANGE NO. 1

DRN. DATE: 12/10/78	FIRST USED ON: LA34	digital
CHK'D BY: [Signature]	ENG. DATE: 11/17/78	TITLE: INTERCONNECTION DIAGRAM
PROJ. ENG. [Signature]	PROD. [Signature]	NUMBER: D I C I LA34-0-2
NEXT HIGHER ASSY:	SIZE: D	REV:
E-LA-LA34-0-0	SCALE: NONE	SHEET 1 OF 1
DIST.:		

DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS																									
				A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
			MODULE REVISION	*	A	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
B-DD-5413374-0	1		LA34 LOGIC BD.	*	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	R	S	T	U	V	W	X	Y	Z	
D-UA-5413374-0-0	3		LA34 LOGIC BD.	C	D	E	F	G	H	I	J	K	L	M	P	R	S	T	U	V	W	X	Y	Z					
D-CS-5413374-0-1	5		LA34 LOGIC BD.	C	D	E	F	G	H	I	J	K	L	M	P	R	S	T	U	V	W	X	Y	Z					
D-MD-5013373-0-0	4		DRILL & ETCH DRAWING	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z		
		5013373	ETCHED BOARD	D	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z		
K-PL-5413374-0-DBP	-		PARTS LIST DATA BASE(5413374)	C	D	E	F	G	H	I	J	K	L	M	N	O	P	R	S	T	U	V	W	X	Y	Z			
K-PC-5413374-0-DBC	-		P.C. DESIGN DATA BASE(5413374)	A	A	A	B	B	B	B	B	B	B	B	B	B	B	B	B	B	E	E	E						
D-CS-5013373-0-0	1		ETCH CUT DRAWING	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A		

NOTES:

REVISIONS		DATE	CHG NO.	ORIG.	REV.	*	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q	R	S	T
		6/79					PN001																		
		1/79					PN002																		
		6/79					PN003																		
		6-79					PN004																		
		7-79					PN005																		
		11-79					PN006																		
		1-80					PN007																		
		2-80					PN008																		
		2-80					PN009																		
		3-80					PN010																		
		3-80					PN011																		
		4-80					PN012																		
		8-80					PN013																		
		10-80					PN014																		
		1-81					PN015																		
		4-81					PN016																		

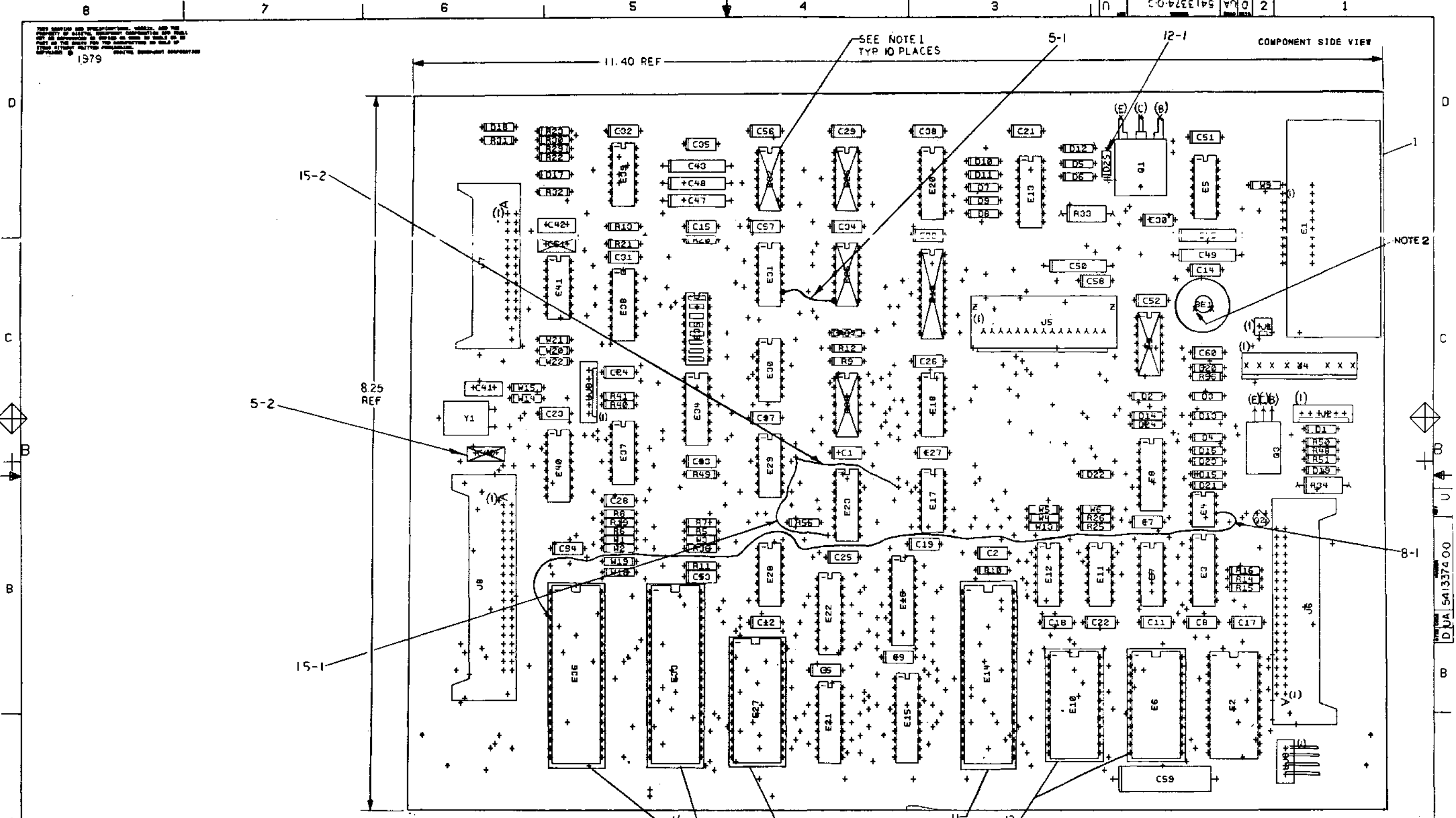
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USED ON OPTION/MODEL	LA34	DRN.	P. BOSSMAN	6/28/78	TITLE	LA34 LOGIC BOARD
		CHK'D	<i>J. Rossman</i>	29 JUN 78	SIZE	B DD
		ENG.	<i>P. H. Rossman</i>		CODE	
		PROD	<i>W. Schick</i>	9/10/78	NUMBER	5413374-0
					REV.	T 3
					SHEET	1 OF 1

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1379



- NOTES:
- (1) C61, R37, C40, F26, F24, E25, E32, F9 & F19 ARE NOT INSTALLED
 - (2) INSTALL BE1 (BELL) WITH SHORT LEAD IN HOLE CLOSEST TO E9
 - (3) W2, W3, W5, W19, W22, W22 ARE OPTIONAL JUMPERS

CHG	NO	REV	BY	DATE
17	5413374-PNS F		J. BITTO	2-15-79
18	5413374-PNS F		J. BITTO	2-15-79
19	5413374-PNS H		J. BITTO	2-15-79
20	5413374-PNS J		J. BITTO	2-15-79
21	5413374-PNS K		J. BITTO	2-15-79
22	5413374-PNS L		J. BITTO	2-15-79
23	5413374-PNS M		J. BITTO	2-15-79
24	5413374-PNS N		J. BITTO	2-15-79
25	5413374-PNS O		J. BITTO	2-15-79
26	5413374-PNS P		J. BITTO	2-15-79
27	5413374-PNS Q		J. BITTO	2-15-79
28	5413374-PNS R		J. BITTO	2-15-79
29	5413374-PNS S		J. BITTO	2-15-79
30	5413374-PNS T		J. BITTO	2-15-79
31	5413374-PNS U		J. BITTO	2-15-79
32	5413374-PNS V		J. BITTO	2-15-79
33	5413374-PNS W		J. BITTO	2-15-79
34	5413374-PNS X		J. BITTO	2-15-79
35	5413374-PNS Y		J. BITTO	2-15-79
36	5413374-PNS Z		J. BITTO	2-15-79

SIGNATURES	DATE
DRN. D. POWERS	2-15-79
CHK. O. J. BAKER	2-15-79
ENC. J. BAKER	2-15-79
PROJ. ENG. J. BAKER	2-15-79
PROD. J. BAKER	2-15-79

ETDM REV. E-P
P.C. DESIGN DATA BASE REV. E-L

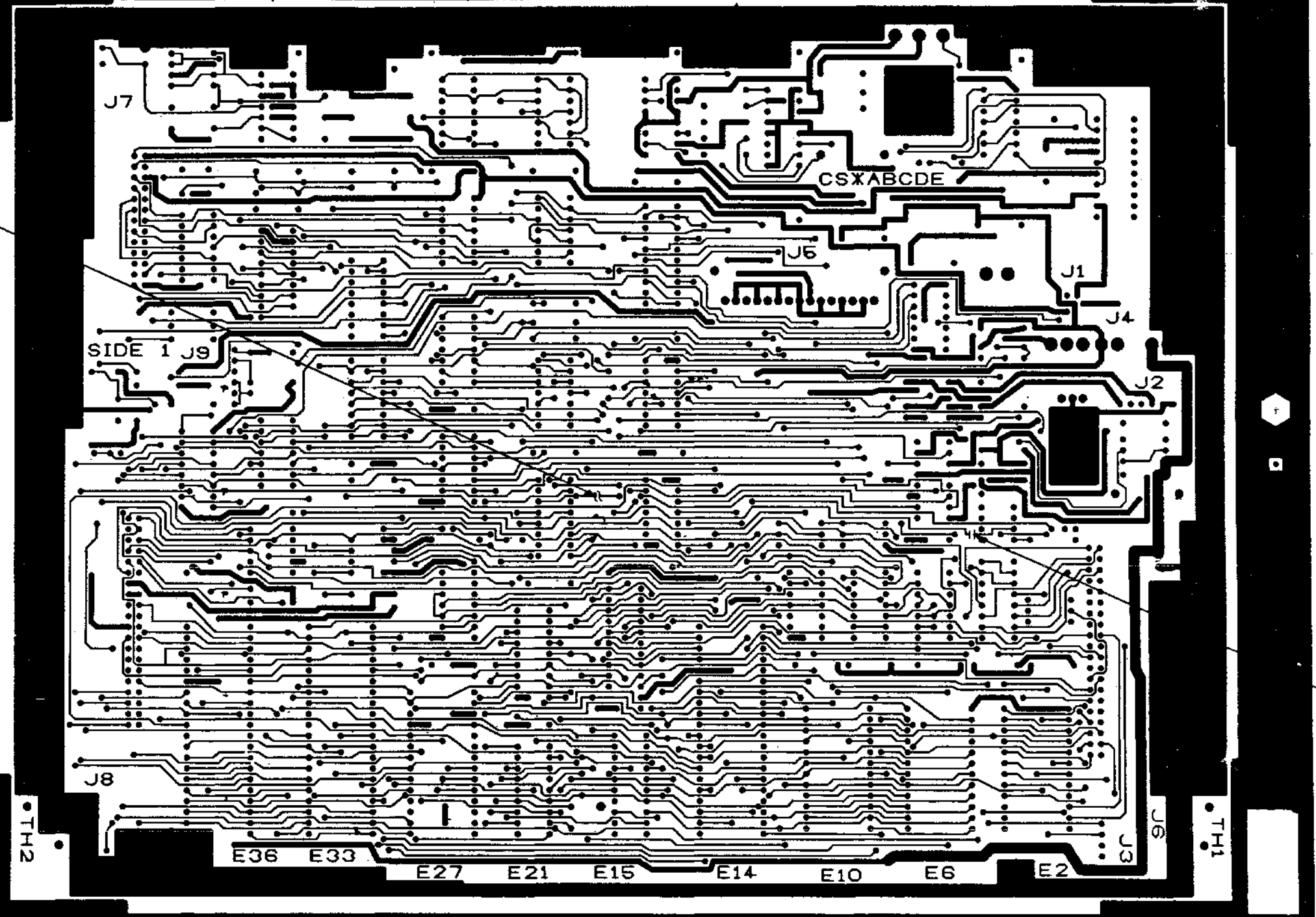
TITLE	DATE	REV
LA34 LOGIC BOARD	2-15-79	1
SIZE CODE	NUMBER	REV
D UA 5413374-0-0		

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5013373E - P1
5413374

L1

D U A 5413374-0-0 2



D
C
B
A

D
C
B
A

D U A 5413374-0-0

REVISIONS		
CHK	CHANGE NO	REV

TITLE	SIZE CODE	NUMBER	REV
LA34 LOGIC BOARD	D U A	5413374-0-0	U
SCALE 2:1	SHEET 2 OF 4	DIST.	

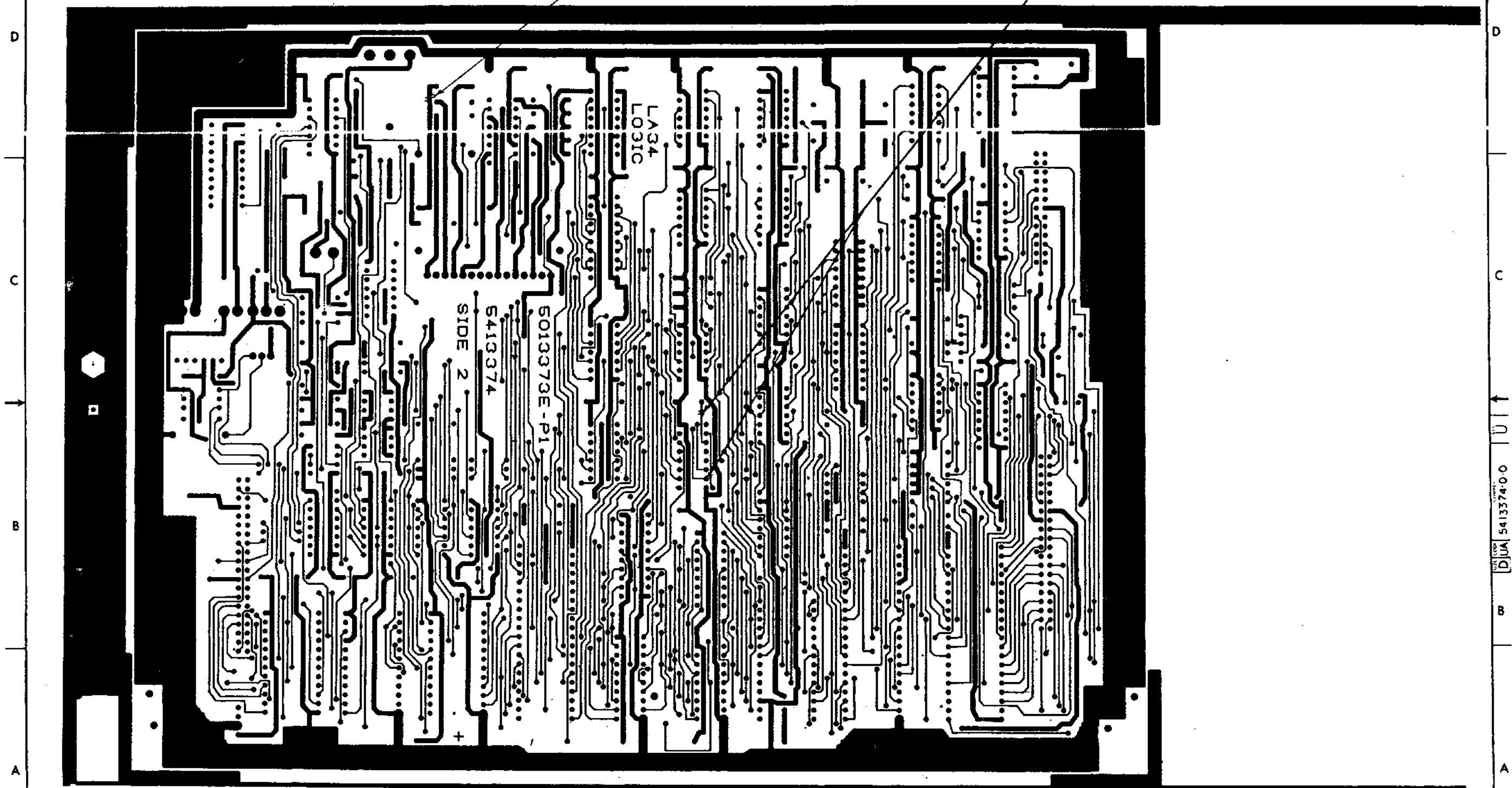
8 7 6 5 4 3 2 1

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L2

12-2

15-4



REVISIONS		
CHK	CHANGE NO	REV

TITLE	LA34 LOGIC BOARD	SIZE/CODE	DUA	NUMBER	5413374-0-0	REV.	U
SCALE	2:1	SHEET	3	OF	4	DIST.	

DUA 5413374-0-0

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REWORK INSTRUCTIONS

ECO # 5

WIRE ADD SIDE 1
 5-1 FROM DTH CONNECTED TO E31-9
 TO E25-7

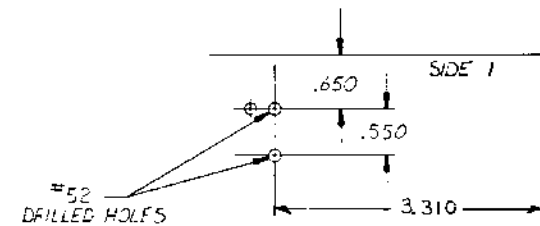
COMPONENT DELETE SIDE 1
 5-2 C45

ECO # 8

8-1 ADDITION OF ECO WIRE FROM E36-4 TO E4-6
 -01 VARIATION ONLY.
 8-2 ETCH CUT FROM E4-6 FOR 01 VARIATION ONLY

ECO # 12

12-1 DRILL TWO NUMBER 52 HOLES .550 INCHES APART IN THE HEAVY ETCH
 RUNNING FROM D12 ANODE TO THE 2 VOLT GROUND (DIAGRAM BELOW).



12-2 CUT THE ETCH BETWEEN D12 ANODE AND C50.

ECO # 15

WIRE ADD SIDE 1
 15-1 ADD JUMPER WIRE FROM PTH BESIDE E29-12 TO
 PTH BESIDE E23-8.
 15-2 ADD JUMPER WIRE FROM PTH BESIDE E29-12 TO
 PTH BESIDE E23-15.

ETCH CUT SIDE 1

15-3 CUT THE ETCH FROM E23-3 SO THAT THE ETCH CUT
 IS BETWEEN THE FIRST TWO FEED THRU HOLES IN THE
 ETCH RUN FROM PIN 3.

ETCH CUT SIDE 2

15-4 CUT ETCH AT E23-2 AND E23-3.

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	LA34 LOGIC BOARD	SIZE CODE	D UA	NUMBER	5413374-0-0	REV.	U
SCALE	1:1	SHEET	4	OF	4	DIST.	

REV. 5413374-0-0

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER	VARIATION	REFERENCE DESIGNATOR
					00	01		
1	1		5013373-00	LA34 LOGIC BOARD	1	1		
2	2		1000055-00	2200.0 MMF 250V 20% Y5S DISC	1	1		C42
3	3		1000079-00	47 MFD 20V 20% S.TANT	1	1		C59
4	4		1001617-00	.01 MFD 50V +80-20% 25U CER	39	39		C1,C2,C5,C7-C9,C11,C12,C14,C15, C17-C19,C21-C35,C37-C39,C51-C54, C56-C58,C60
5	5		1005306-00	6.8MFD 35V 10% S.TANT	5	5		C47-C49,C50,C45
6	6		1005820-00	22.0 MMF 100V 5%200PPM FICA	1	1		C41
7	7		1005636-00	22 MFD 4V 10% S.TANT	1	1		C43
8	8		1105275-00	D 672 TR= 15NS PIV= 60V SI	5	5		D20-D24
9	9		1101930-00	1N 4370A VZ= 2.4 5% .40W	1	1		D18
10	10		1105796-00	1N 4004 PIV=400 I= 1A D041 SP	18	18		D1-D17,D19
11	11	USED FOR E33,E36	1215006-08	SOCKET 40PIN IC LOW PROFILE	2	2		
12	12	USED FOR E6,E10	1215006-06	SOCKET 24PIN IC LOW PROFILE	2	2		
13	13		1211164-04	SW,DIP 1P 1A 8POS	1	1		F35
14	14		1215323-02	CONN, 2POS POLARIZING & LO	1	1		J1
15	15		1215323-00	CONN, 6POS POLARIZING & LO	2	2		J2,J9
16	16		1215324-00	CONN 15POS GOLD PLATED	1	1		J5
17	17		1215699-00	HEADER 9POS STRAIGHT	1	1		J4
18	18		1215635-01	TRANSUCER,MINATURE AUDIO FOR LA	1	1		RE1
19	19		1215921-00	CONN, 4PIN WAFER,RIGHT ANG	1	1		J3
20	20		1209941-02	HEADER 100 40POS RT ANGLE	2	2		J6,J8
21	21		1209941-09	HEADER 26POS RT ANGLE RCPT	1	1		J7
22	22		1300247-00	120.0 .25 W 5.0 % CC	1	1		R31
23	23		1300295-00	330.0 .25 W 5.0 % CC	4	4		R14,R15,R5,R16
24	24		1300365-00	1.0 K .25 W 5.0 % CC	7	7		R36,R49,R19,R29,R40,R41,R55
25	25		1300415-00	2.20 K .50 W 5.0 % CC	1	1		R33
26	26		1300479-00	10.0 K .25 W 5.0 % CC	10	10		R10,R7,R6,R11,R12,R8,R22,R21, R13,R9
27	27		1300488-00	12.0 K .25 W 5.0 % CC	1	1		R32

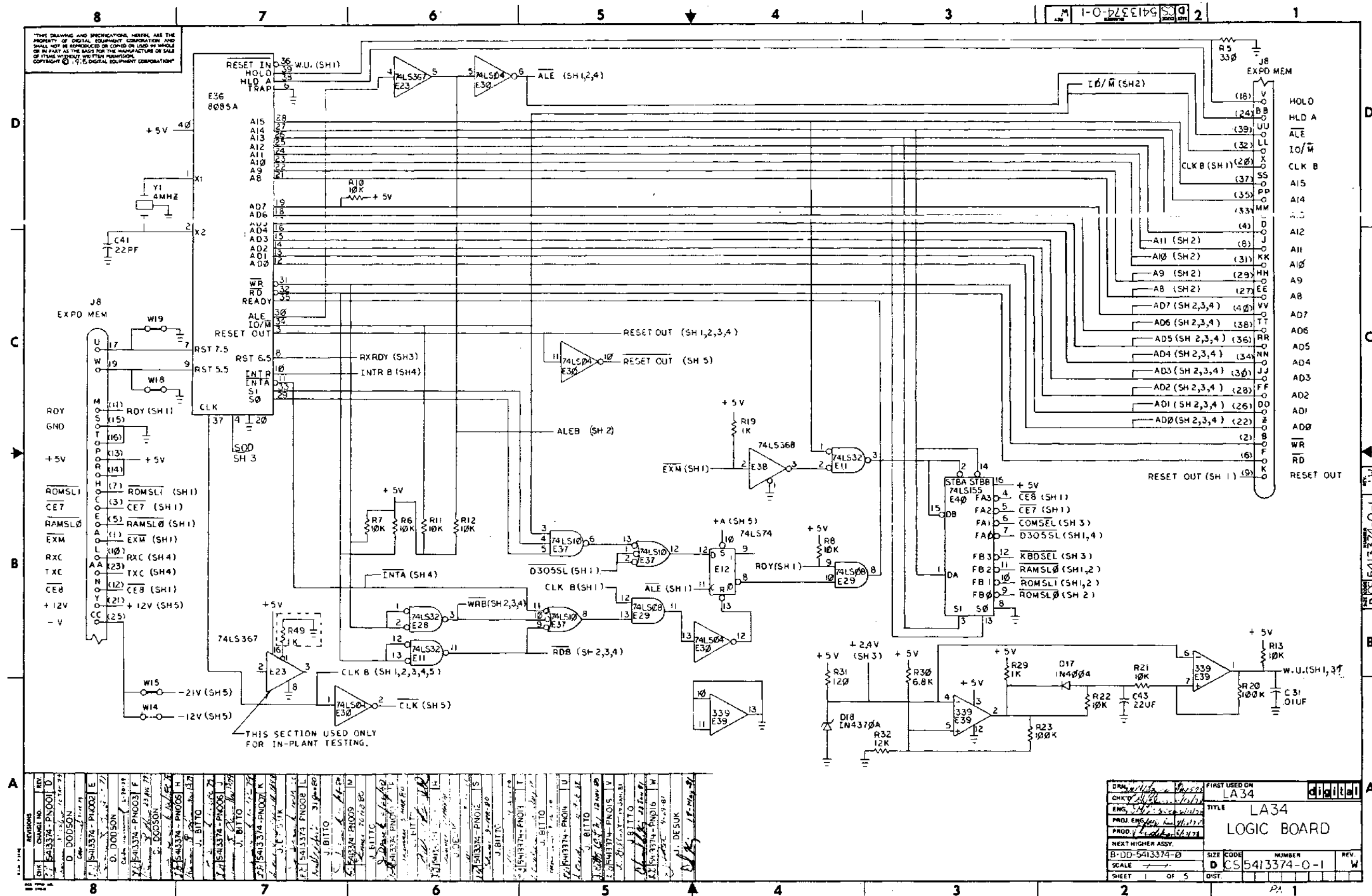
REVISION HISTORY		BASIC PART NO: 5413374		DRN:	J. GIZOTTE	DATE:	14-JUN-78	D I T I G I T I A I D	
ENG:	ECO NUMBER	REV	SECTION A OF A	CHK'D:	R. WONG	DATE:	05-JUL-78	TITLE	PARTS LIST
JJB	PN004	H	SECTION, VARIATION INDEX	CHK'D:	R. WONG <td>DATE:</td> <td>05-JUL-78</td> <td></td> <td></td>	DATE:	05-JUL-78		
JJB	PN005	J	[A] 00,01					LA34 LOGIC BOARD	
JJB	PN006	K	[B]						
JJB	5413374-PN007	L	[C]	DES,ENG:	D. DODSON	DATE:	05-JUL-78		
JJB	5413374-PN008	M	[D]						
JJB	5413374-PN009	N	[E]					DOCUMENT NUMBER	
JJB	5413374-PN010	P	[F]	RESP,ENG.:	D. DODSON	DATE:	14-JUN-78		
JJD	5413374-PN011	P	[H]					SIZE/CODE/ NUMBER	REV
JJB	5413374-PN012	S	[J]						
JJB	5413374-PN012	S	[K]	MFG,ENG.:	L. MION	DATE:	05-JUL-78	K PL 5413374-0-DBP	U
JJB	5413374-PN013	T	[L]						
JJB	5413374-PN014	U	[M]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:	EDIT
			[N]	D-UA-RE13374-0-0		LA34		133740.PLS	28

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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER	VARIATION	REFERENCE DESIGNATOR
					00	01		
28	28		1302389-00	2.0 K .25 W 5.0 % CC	1	1		R51
29	29		1302466-00	100.0 K .25 W 5.0 % CC	2	2		R23, P20
30	30		1301890-00	560.0 .25 W 5.0 % CC	1	1		P48
31	31		1301423-00	6.80 K .25 W 5.0 % CC	3	3		R25, R26, R30
32	32		1300005-07	R NETWORK 15-4.7K 5.0 % 16PIN	1	1		F34
33	33		1300439-00	3.30 K .25 W 5.0 % CC	1	1		R50
34	34		1315676-00	300.0 3.0 W 5.0 % WW 9	1	1		R34
35	37		1515370-00	TIP146 PNP DARLINGTON-CONNECTED	1	1		Q1
36	38		1514509-00	IIP 125 PNP 65W SI 60 500 MA	1	1		Q3
37	39		1510706-00	XA 55 PNP 5004W SI 60 50 P	1	1		Q2
38	40		1812396-03	XTAL 4.000 MHZ	1	1		Y1
39	41		1915636-00	DRIVER, SWITCHING MOT	1	1		F1
40	42		1913130-00	DEC 1489A RECEIVER, LINE, QUAD,	1	1		F41
41	43		1912863-00	LS273 FF-D OCTAL W/CLEAR	1	1		F15
42	44		1912846-00	LS155 DECODER, 2 OF 4(DUAL)	1	1		F40
43	45		1910325-00	DEC 1488L DRIVER, LINE, QUAD, EI	1	1		F31
44	46		1910741-00	7406 INVERTER GATE-HEX 1I	1	1		F5
45	47		1912108-00	339 VOLT CMPRTR, QUAD	1	1		F39
46	48		1912801-00	LS02 NOR-GATE-QUAD 2IN	1	1		F7
47	49		1912803-00	774LS04 INVERTER GATE, HEX 1I	3	3		F30, F18, F17
48	50		1912805-00	LS08 AND GATE-QUAD 2IN, PO	1	1		F29
49	51		1913777-00	LS240 DRIVER, LINE, OCTAL, T	1	1		F16
50	52		1914072-00	74159 DECODER-4 TO 16 UPN	1	1		F2
51	53	USED FOR E27	1215002-07	SOCKET 28PIN IC LOW PROFILE	1	1		
52	54		1915261-00	DEC 2841B DRIVER, 1.5A QUAD	3	3		F13, F20, F8
53	55		1914560-00	LS368 DRIVER, BUS, HEX, TRI-	1	1		E38
54	56		1913471-00	LS367 DRIVER, BUS, HEX, TRI-	1	1		E23
55	57		1912807-00	LS10 NAND GATE-TRIPLE 3IN	1	1		F37
56	58		1912816-00	LS32 OR GATE-QUAD 2IN, POS	2	2		F11, F28
57	59		1912824-00	LS74 FF-D DUAL, EDGE TRIGG	1	1		E12
58	60		1910406-00	75451 DRIVER, PERIPH, DUAL,	1	1		E4
59	61		1913950-00	LS155 DECODER, 2 OF 4(DUAL)	1	1		F3
60	62		2113107-01	P 8251A PUSART COMM. INTERFA	1	1		E27
61	63		2113954-00	DC 305 INTERFACE CHIP M1	1	1		E14
62	64		2114212-01	P 2114 RAM, 1024X4, STATIC 18	2	2		F21, F22
63	65		2114963-00	UP, 8-BIT NMOS GL	1	1		F36
64	66		23001B9-00	B9-01	1	0		F33
65	67		23059E2-00	E2-01	1	0		F6
66	68		23131E2-00	E2-01	1	0		F10
67	69		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	9	-		R21, W15, W19, W18, W13, W9, W6, W4, W1
			CONT		-	9		R21, W25, W19, W18, W13, W9, W6, W4, W2
68	70		910574V-55	WIRE (WRAP) 30AWG UT-1423	A/R	A/R		
69	71		1302602-00	56.0 .25 W 5.0 % CC	1	1		P56
70	72		23011B9-00	B9-02	0	1		F33
71	73		23232F2-00	E2-04	0	1		F6
72	74		1110854-00	1N 5353B VZ= 16.0V 5% .40W M	1	1		D25

D	T	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							LA34 LOGIC BOARD		K	PL	5413374-0-DBP	U

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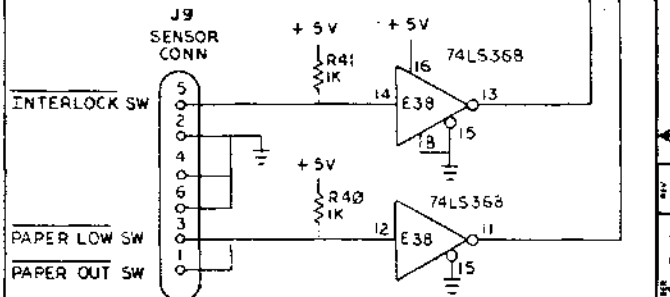
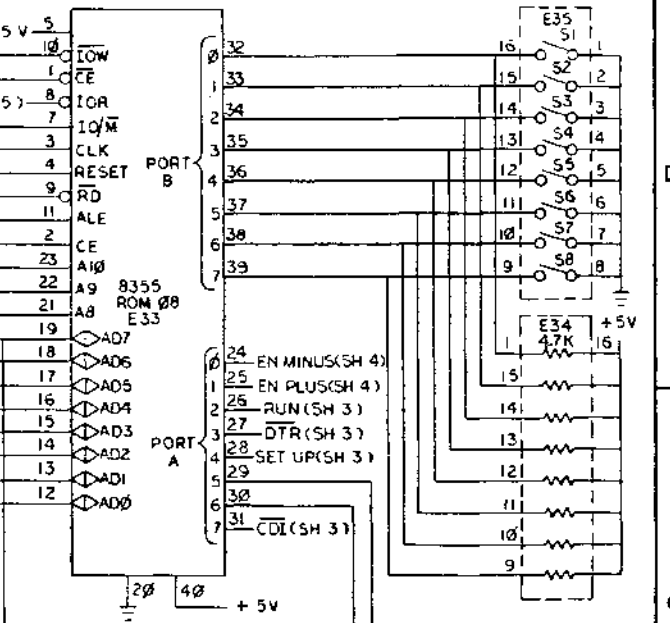
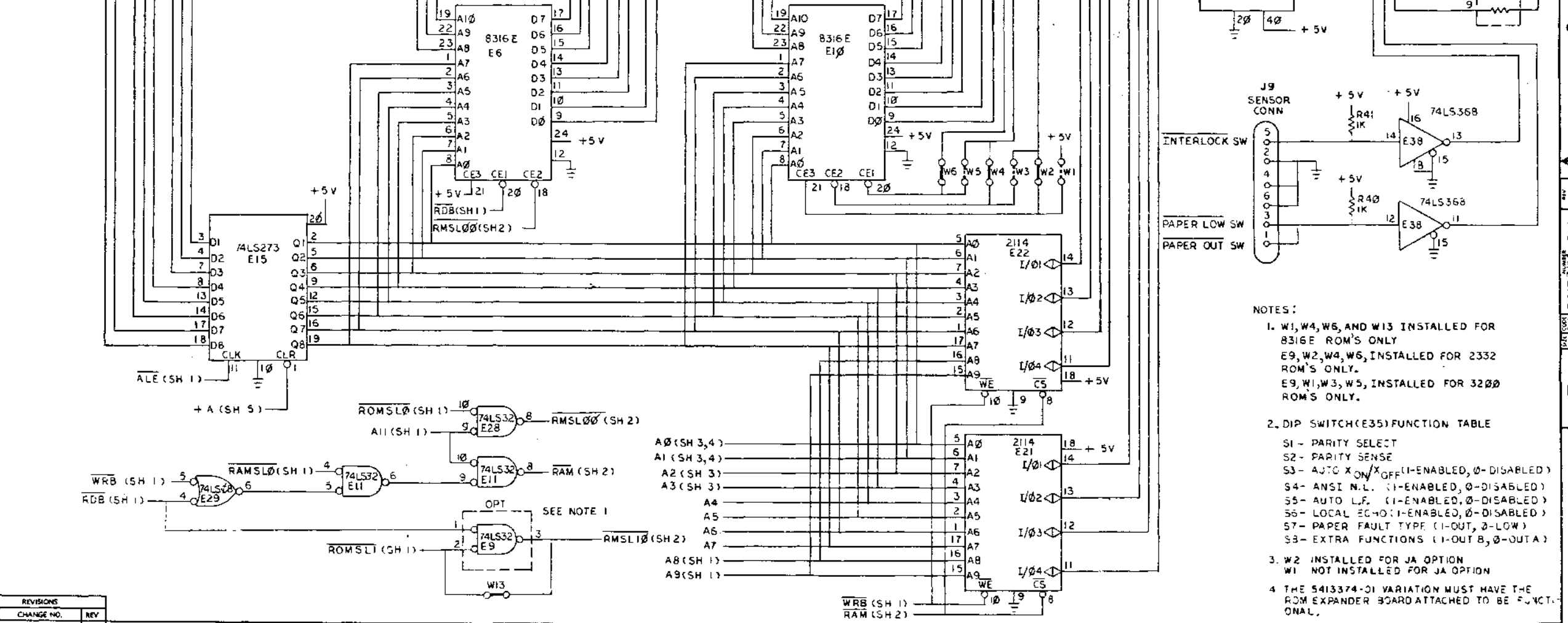
REV	DATE	BY	CHKD	DESCRIPTION
1	10-10-75	J. BITTO	J. BITTO	INITIAL DESIGN
2	10-10-75	J. BITTO	J. BITTO	REVISED FOR MANUFACTURE
3	10-10-75	J. BITTO	J. BITTO	REVISED FOR MANUFACTURE
4	10-10-75	J. BITTO	J. BITTO	REVISED FOR MANUFACTURE
5	10-10-75	J. BITTO	J. BITTO	REVISED FOR MANUFACTURE
6	10-10-75	J. BITTO	J. BITTO	REVISED FOR MANUFACTURE
7	10-10-75	J. BITTO	J. BITTO	REVISED FOR MANUFACTURE
8	10-10-75	J. BITTO	J. BITTO	REVISED FOR MANUFACTURE

DRN	LA34	FIRST USED ON	LA34
CHKD	J. BITTO	TITLE	LA34
ENG	J. BITTO		LOGIC BOARD
PROJ ENG	J. BITTO		
PROD V	J. BITTO		
NEXT HIGHER ASSY			
B-DD-5413374-0	SIZE CODE	NUMBER	REV
SCALE	D CS	5413374-0-1	W
SHEET 1 OF 5	DIST.		

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- WRB (SH 1)
- ROMSL0 (SH 1)
- RMSL0 (SH 2)
- IO/M (SH 1)
- CLK B (SH 1)
- RESET OUT (SH 1)
- RDB (SH 1)
- ALEB (SH 1)
- A11 (SH 1)
- A10 (SH 1)
- A9 (SH 1)
- A8 (SH 1)

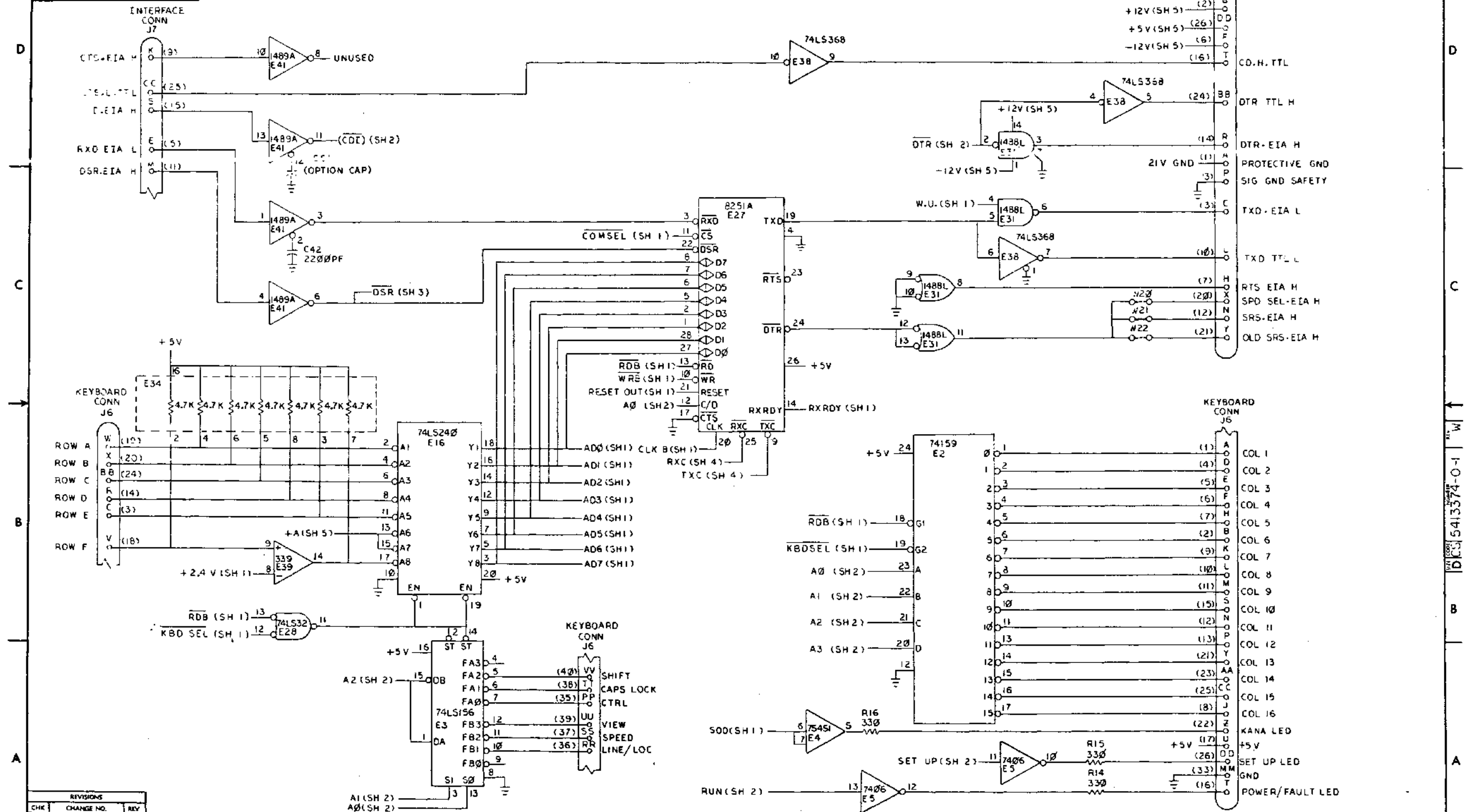
- AD7 (SH 1)
- AD6 (SH 1)
- AD5 (SH 1)
- AD4 (SH 1)
- AD3 (SH 1)
- AD2 (SH 1)
- AD1 (SH 1)
- AD0 (SH 1)



- NOTES:
- W1, W4, W5, AND W13 INSTALLED FOR 8316 ROM'S ONLY
E9, W2, W4, W5, INSTALLED FOR 2332 ROM'S ONLY.
E9, W1, W3, W5, INSTALLED FOR 3200 ROM'S ONLY.
 - DIP SWITCH (E35) FUNCTION TABLE
S1 - PARITY SELECT
S2 - PARITY SENSE
S3 - AUTO X ON/X OFF (1-ENABLED, 0-DISABLED)
S4 - ANSI N.L. (1-ENABLED, 0-DISABLED)
S5 - AUTO L.F. (1-ENABLED, 0-DISABLED)
S6 - LOCAL ECHO (1-ENABLED, 0-DISABLED)
S7 - PAPER FAULT TYPE (1-OUT, 0-LOW)
S8 - EXTRA FUNCTIONS (1-OUT B, 0-OUT A)
 - W2 INSTALLED FOR JA OPTION
W1 NOT INSTALLED FOR JA OPTION
 - THE 5413374-01 VARIATION MUST HAVE THE ROM EXPANDER BOARD ATTACHED TO BE FUNCTIONAL.

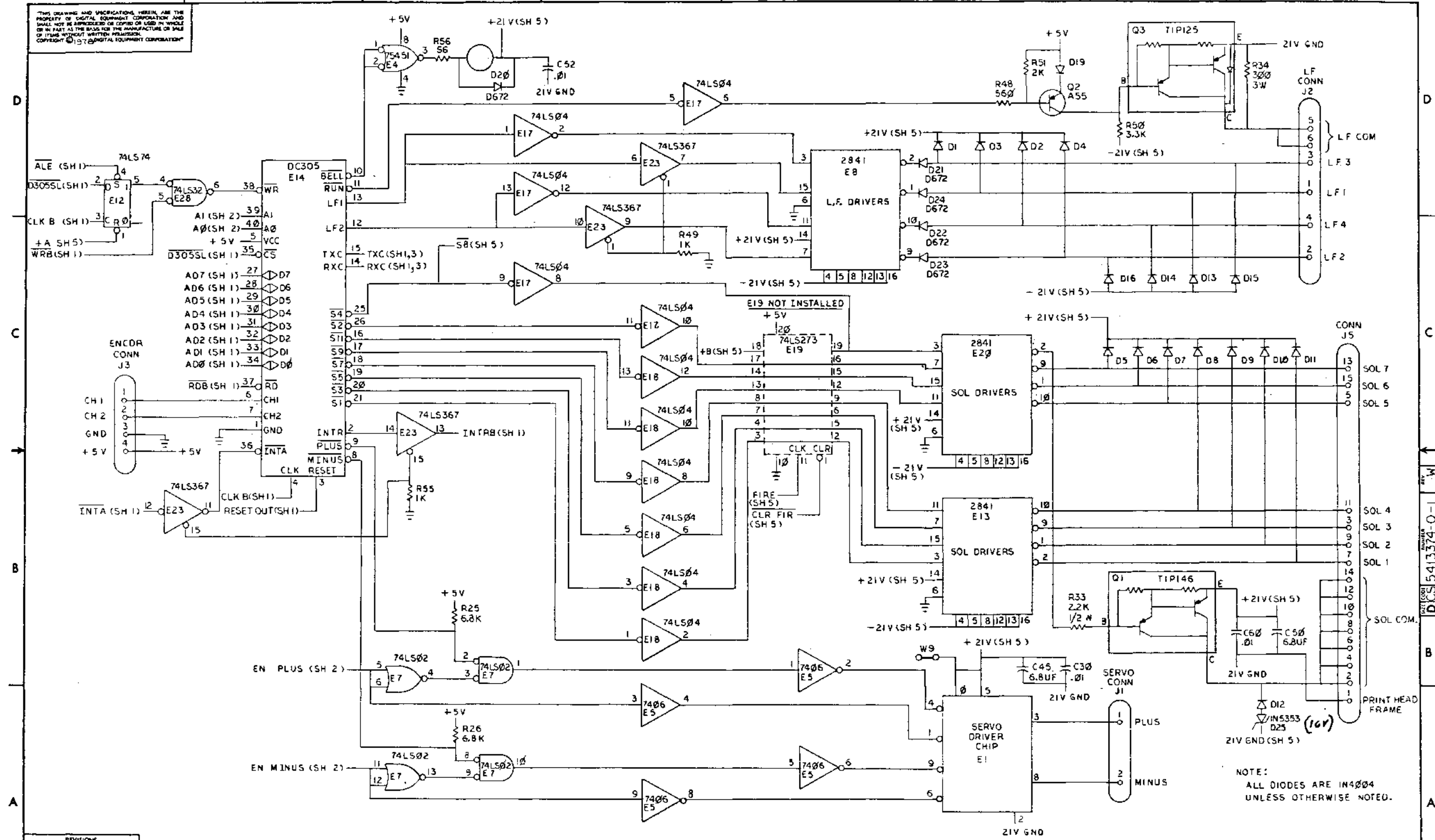
REVISIONS		
CHK	CHANGE NO.	REV

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REVISIONS		
CHK	CHANGE NO.	REV

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REVISIONS		
CHK	CHANGE NO.	REV.

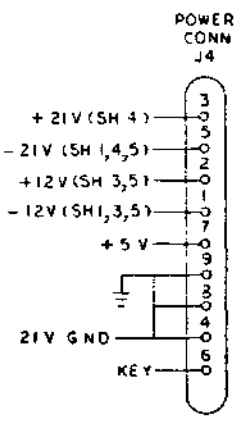
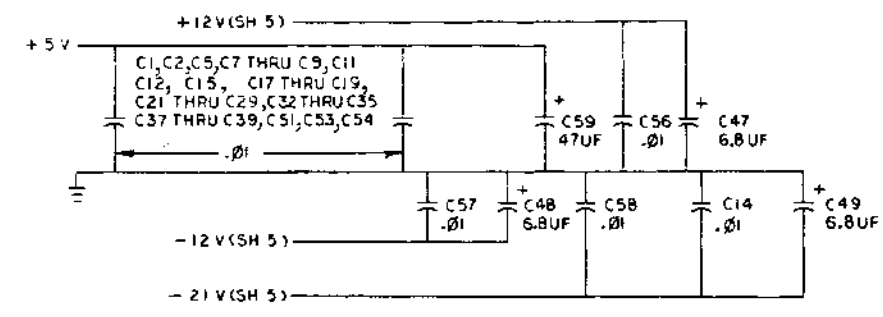
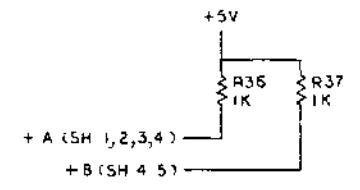
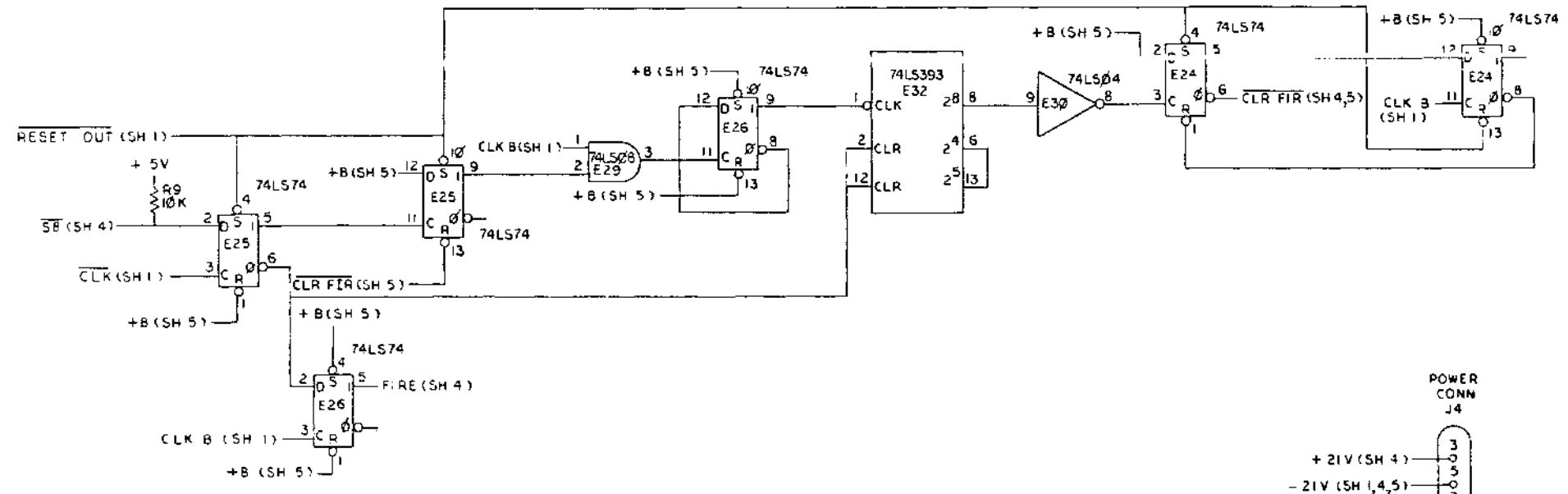
TITLE	LA34 LOGIC BOARD	SIZE CODE	NUMBER	REV.
SCALE	SHEET 4 OF 5	DIST.	DCS 5413374-0-1	W

NOTE:
ALL DIODES ARE 1N4004
UNLESS OTHERWISE NOTED.

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DCS 5413374-0-1

NOTE:
IC'S E24, E25, E26, E32 AND R37 NOT INSTALLED.



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	LA34 LOGIC BOARD	SIZE CODE	NUMBER	REV.
SCALE	SHEET 5 OF 5	DIST.	DCS 5413374-0-1	W

DCS 5413374-0-1 W

DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS																			
			MODULE REVISION	*																			
B-DD-5413284-0	1		LA34 KEYBOARD MODULE	*																			
D-UA-5413284-0-0	3		LA34 KEYBOARD MODULE	D																			
D-MD-5013283-0-0	4		DRILL & ETCH DRAWING	D																			
D-CS-5413284-0-1	1		LA34 KEYBOARD MODULE	D																			
		5013283	ETCHED BOARD	E																			
K-PL-5413284-0-DBP	-		PARTS LIST DATA BASE(5413284)	D																			
K-PC-5413284-0-DEG	-		P.C. DESIGN DATA BASE (5413284)	A																			

NOTES:

REVISIONS	DATE	CHG NO.	REV.

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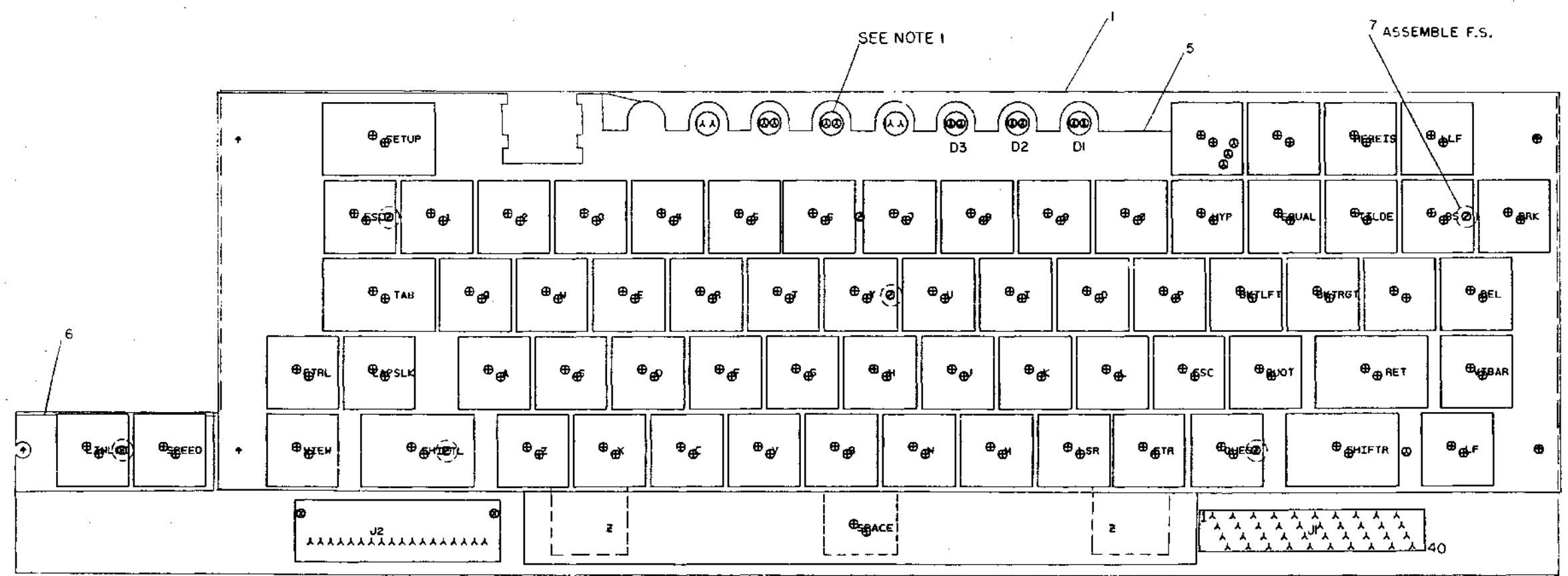
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USED ON OPTION/MODEL	DRN. P. BOSSMAN	7/7/78	TITLE
LA34	CHK'D <i>P. Bosman</i>	10 Jul 78	LA34 KEYBOARD MODULE
	ENG. <i>B. Donohue</i>	10 Aug 78	SIZE B DD
	PRD. <i>L. Lohian</i>	8/10/78	CODE DD
			NUMBER 5413284-0
			REV. *
			SHEET 1 OF 1

COMPONENT SIDE VIEW

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NOTES: 1. D4 THRU D7 ARE NOT USED.

CHANGE NO	REV

ETCH REV. E
P.C. DESIGN DATA BASE REV. EL

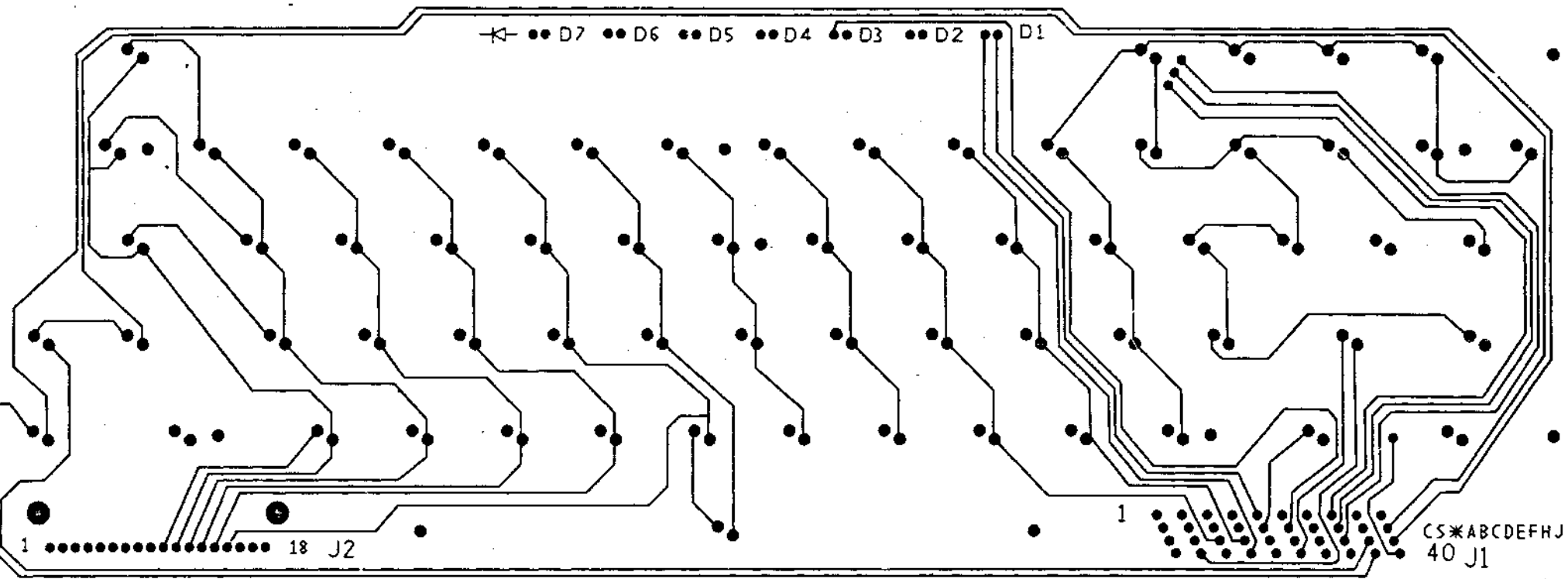
SIGNATURES		DATE	digital
DRN. M. Spay		6-6/80	
CHK'D. S. C. Y.		6-10-80	TITLE LA 34 KEYBOARD MOD
ENG. B. D. D.		10-1-80	
PROJ. ENG. B. D.		10-1-80	
PROD. I. L.		8/1/80	
SCALE 2/1			SIZE CODE NUMBER REV 0 UA 5413284-0-0 D
SHT. 1 OF 3			
NEXT HIGHER ASSY. B-DD-5413284-0-0			

8 7 6 5 4 3 1

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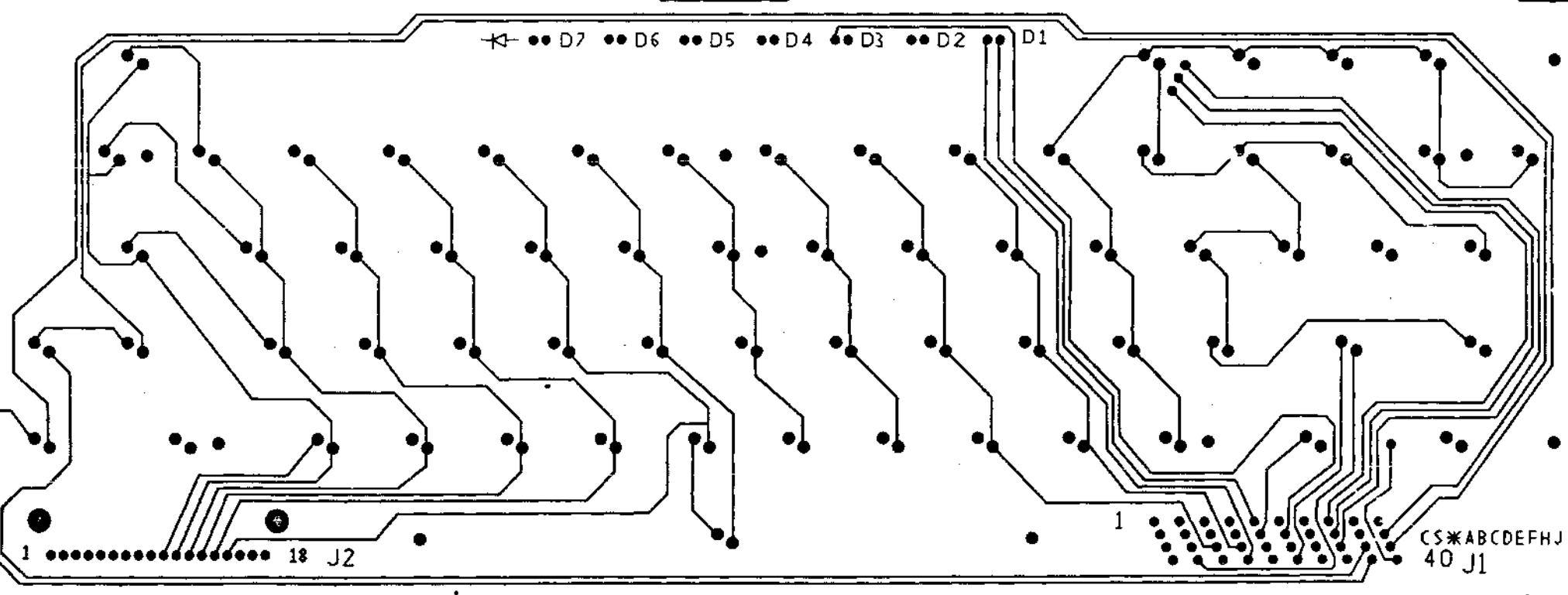
5013283E 5413284

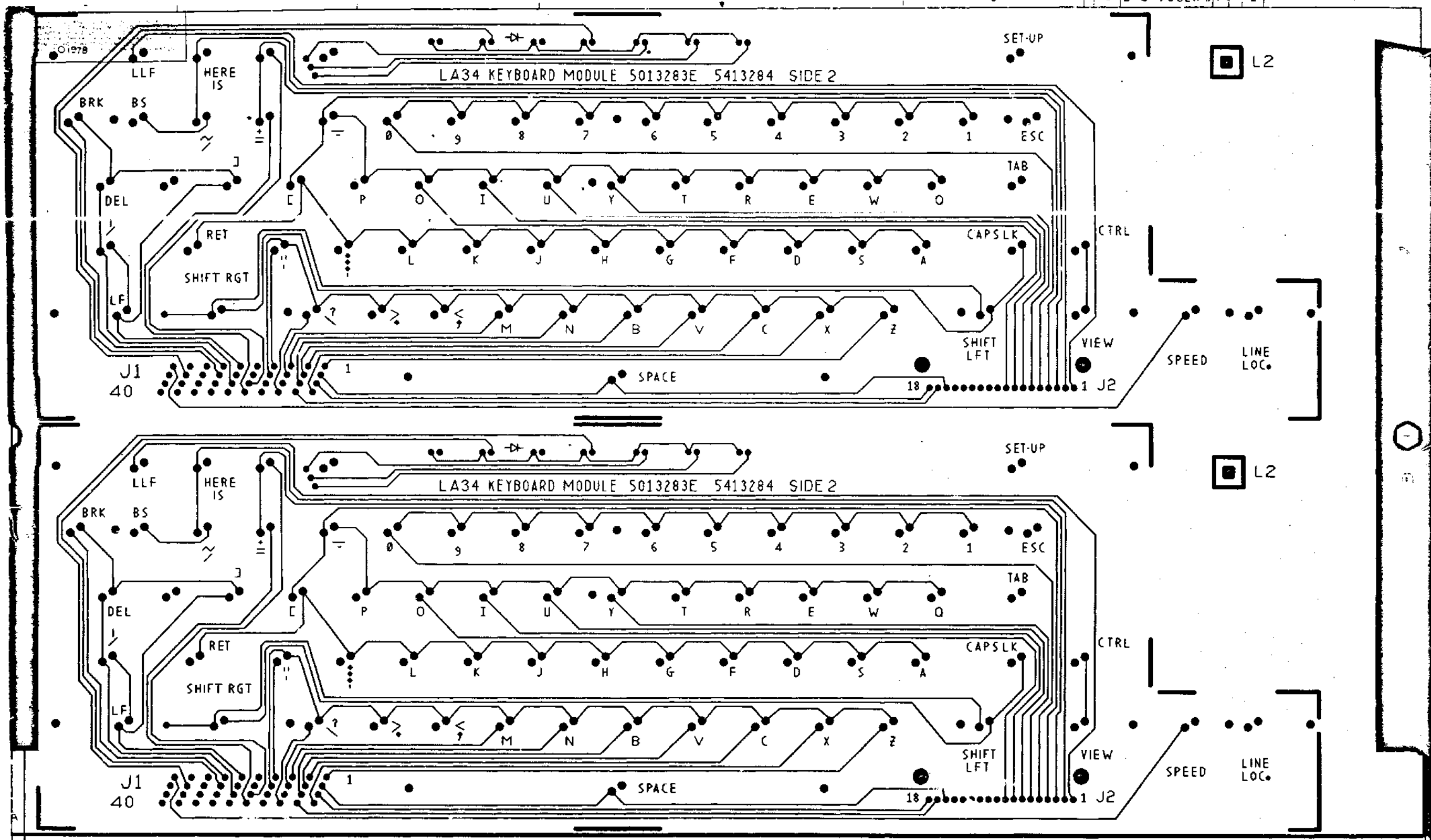
SIDE 1
digital



5013283E 5413284

SIDE 1
digital



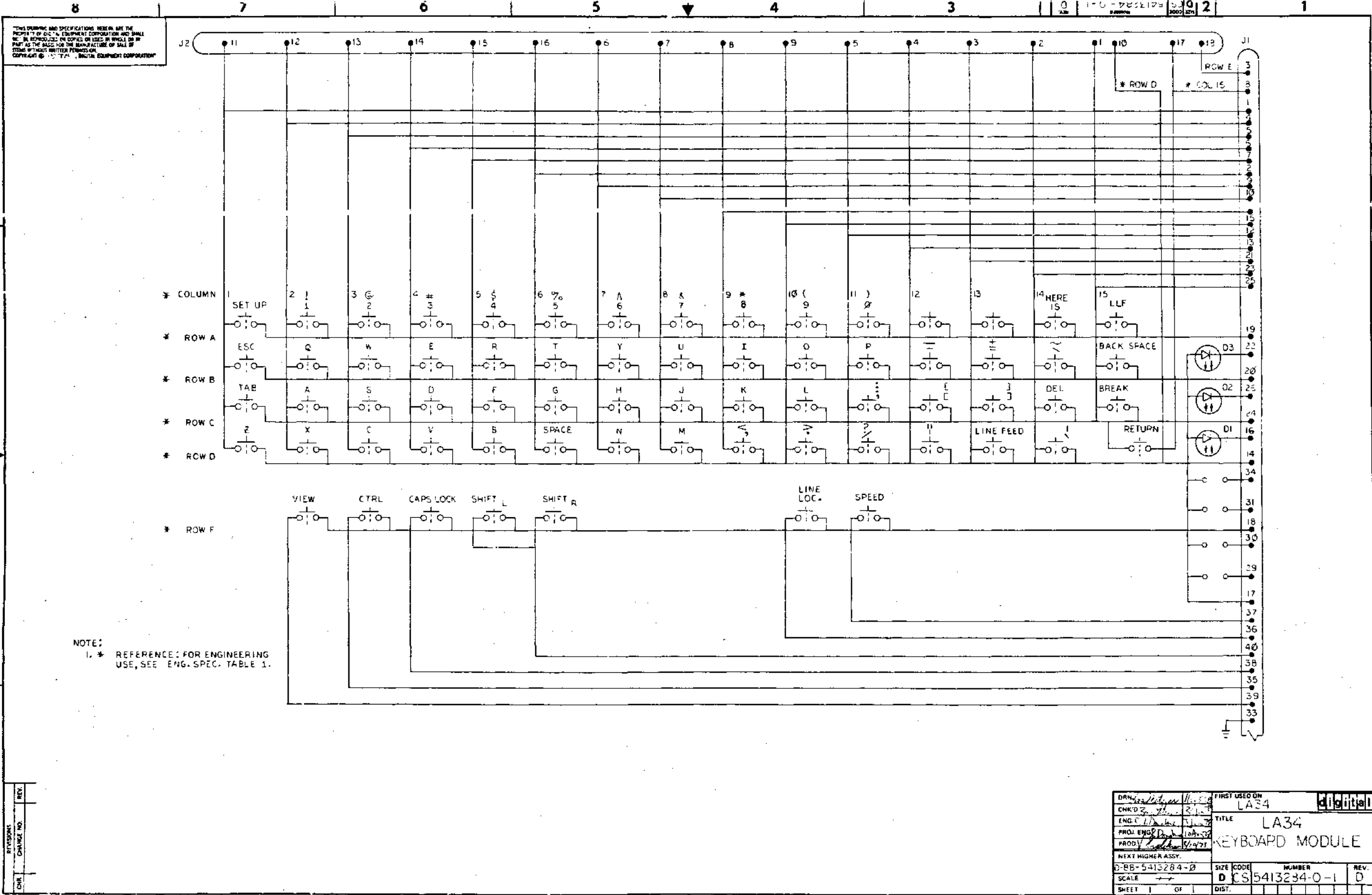


LA34 KEYBOARD MODULE		D LA 5413284-0-0		D
PLATE 2/1	SHEET 3	3		

LJNF ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	REFERENCE DESIGNATOR
1	1	5013283-00	ETCH BOARD FOR 5413284	1	
2	2	1110864-00	LED 2MCD@10mA	3	D1-D3
3	3	1210073-00	CONN 40POS INSUL PIERCING	1	J1
4	4	1215324-01	CONN 18POS GOLD PLATED	1	J2
5	5	7013910-00	KEYBOARD ARRAY ASSY	1	
6	6	7015527-00	OPERATOR SWITCH ASSY	1	
7	7	9010033-00	SCREW,PAN,PHILLIPS, 4-24 X 3/8	6	

REVISION HISTORY		SECTION 1 OF 1	RESP,ENG.: B.DONOHUE	DATE: 22-JUN-78	DIGITAL	
ENG	ECO NUMBER	REV	SECTION, VARIATION INDEX	MADE BY: M.RIPLEY	DATE: 17-MAY-78	TITLE PARTS LIST
---	INIT	ID				
LG	5413284-PN001	E	1,00	CHECKED: B.DONOHUE	DATE: 22-JUN-78	LA34 KEYBOARD MODULE
			2.			
			3.	DSN,ENG.: B.DONOHUE	DATE: 22-JUN-78	
			4.			
			5.			
			6.	PROD.: L.MIDN	DATE: 22-JUN-78	SIZE CODE DOCUMENT NUMBER REV
			7.			K PL 5413284-0-DBP E
			8.			
			9.			
			10.			
			11.	ASSEMBLY NUMBER: D-UA-5413284-0-0		PART NUMBER: 5413284 EDIT #
			12.			15

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NOTE:
1. * REFERENCE: FOR ENGINEERING USE, SEE ENG. SPEC. TABLE 1.

DRN: [Signature]	FIRST USED ON: LA34	digital
CHK'D: [Signature]	TITLE: LA34	
ENG. C: [Signature]	KEYBOARD MODULE	
PROJ. ENG. D: [Signature]	SIZE: D	NUMBER: 5413234-0-1
PRODY: [Signature]	SCALE: ---	REV: D
NEXT HIGHER ASSY:	SHEET: 1	OF: 1
D-BB-5413234-0	DIST:	

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DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

ENGINEERING SPECIFICATION

DATE June, 1978

TITLE H7834 POWER SUPPLY

REVISIONS

REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE

ENG	Ralph MacKenzie	APPD	<i>Ralph M. MacKenzie</i>	SIZE	A	CODE	SP	NUMBER	H7834-0-2	REV	
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EN-1079A-16-R873-(392)
DRA 107A

SHEET 1 OF 9

ENGINEERING SPECIFICATION

digital

CONTINUATION SHEET

TITLE H7834 POWER SUPPLY

1.0 Characteristics

1.1 Performance

1.1.1 Inputs

The module shall perform as specified herein when supplied with the inputs described in the following paragraphs.

1.1.1.1 Voltage

The AC input voltage shall be one phase, two wire, switch selectable in two ranges:

87 - 128 VRMS
174 - 256 VRMS

1.1.1.2 Frequency

The frequency of the AC input voltage shall be 47 - 63 Hz.

1.1.1.3 Current

The input current shall be as follows:

1.3 A RMS maximum at 87 VRMS
0.7 A RMS maximum at 174 VRMS

1.1.1.4 Inrush Current

The input inrush current shall be as follows:

50A peak for $\frac{1}{2}$ cycle at 128 VRMS
50A peak for $\frac{1}{2}$ cycle at 256 VRMS

1.1.1.5 Power

The input power shall be 65 watts maximum. Apparent input power shall be 110 VA maximum.

1.1.1.6 Power Factor

The power factor shall be 0.6 minimum at full load and 87 VRMS.

1.1.1.7 Leakage Current

When installed in the LA34 terminal the leakage current shall be 0.5 MA RMS max each line to ground at 250V RMS sine, 50 Hz.

SIZE	A	CODE	SP	NUMBER	H7834-0-2	REV	
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DEC FORM NO EN-01022-16-N370-(381)
DRA 108

SHEET 2 OF 9

ENGINEERING SPECIFICATION

000101

CONTINUATION SHEET

TITLE H7834 POWER SUPPLY

1.1.1.8 Overcurrent

The input overcurrent protection is provided by a user accessible 3A normal blow fuse.

1.1.1.9 Electromagnetic Interference/Susceptibility

When installed in the LA34 the conducted or radiated interference/susceptibility shall be as follows:

1.1.1.9.1 Conducted Transients

System degradation shall not be caused by a single 300V, 0.2 watt sec. maximum voltage transient. Survival level for a single voltage transient shall be 1000V at 2.5 watt-sec max. Survival level for an average power transient shall be 0.5W maximum.

1.1.1.9.2 Conducted CW Noise

Conducted CW noise shall not exceed the following:

10 KHz to 3 MHz	3VRMS max.
3 MHz to 500 MHz	1VRMS max.
500 MHz to 1 GHz	0.5VRMS max.

1.1.1.9.3 RF Field Susceptibility

The following RF fields shall not cause system degradation (with the power supply installed in the terminal)

10 KHz to 30 MHz	1V/M max.
30 MHz to 1 GHz	10V/M max.

1.1.1.10 Power Line Disturbances

With the module installed in the terminal, the performance with power line disturbances shall be as follows:

1.1.1.10.1 Overvoltage

The H7834 power supply shall withstand for one second 117% of the rated maximum input voltages specified in 1.1.1.1 without causing system degradation or damage.

SIZE	CODE	NUMBFR	REV
A	SP	H7834-0-2	

ENGINEERING SPECIFICATION

000101

CONTINUATION SHEET

TITLE H7834 POWER SUPPLY

1.1.1.10.2 Undervoltage

The H7834 power supply module shall withstand undervoltages and power interruptions without sustaining damage or causing damage to the LA34.

1.1.1.10.3 Ride Through

At 87VRMS input and full load, all outputs shall remain within their specified limits for 20 milliseconds minimum.

1.1.1.11 Electromagnetic Interference

With the module installed in the terminal, the conducted and radiated emissions level shall be as follows:

1.1.1.11.1 Conducted Emission

The conducted emissions shall satisfy the VDE A limit.

1.1.1.11.2 Radiated Emissions

The radiated emissions shall satisfy the VDE A limit.

1.1.1.12 Dielectric Withstanding

With the AC power disconnected the module shall withstand the application of the following high voltage direct current levels without damage or arcing.

1.1.1.12.1 Input to Frame

The module shall withstand 2.5 KV DC from input to frame for one minute.

1.1.1.12.2 Input to Output

The module shall withstand 2.5 KV DC from input to output for one minute.

SIZE	CODE	NUMBFR	REV
A	SP	H7834-0-2	

ENGINEERING SPECIFICATION

CONTINUATION SHEET

TITLE H7834 POWER SUPPLY

1.1.2 Outputs

The module shall provide outputs as defined in the following paragraphs. All outputs are defined at the output connector J2.

1.1.2.1 Currents

The output currents shall meet the requirements of a single LA00 terminal.

+5.1 VDC at 0.5A minimum to 3.0A maximum
 +12 VDC at 0.02A minimum to 0.2A maximum
 -12VDC at 0.02A minimum to 0.2A maximum
 +21 VDC at 0A minimum to 1.0A maximum
 -21 VDC at 0.1A minimum to 1.0A maximum

The total average power from the +21V and -21V outputs is limited to 21 watts.

1.1.2.2 Voltages

The output voltages shall have the following tolerances under the specified loads.

1.1.2.2.1 +5.1 volt Output

the +5.1 volt output shall have the following characteristics as measured at Pin 3 (Pin 2 return) of J2:

- a) Overall regulation: +5%
- b) Initial tolerance: $\pm 1\%$
- c) Static line regulation: $\pm 0.5\%$
- d) Static load regulation: $\pm 1.5\%$
- e) Long term stability: $\pm 0.1\%/1000$ hrs.
- f) Thermal drift: $-0.01 \pm .01\%/^{\circ}\text{C}$
- g) Ripple: 200 MV p-p for $f \leq 20$ KHz
- h) Noise: 200 MV peak to peak at $f \leq 100$ KHz
- i) Dynamic load regulation: TBDL

1.1.2.2.2 +21 Volt Output

The +21 volt output shall have the following characteristics as measured at Pin 7 (Pin 6 return) of J2:

- a) Overall regulation: $\pm 10\%$

SIZE	CODE	NUMBR	REV
A	SP	H7834- β -2	

ENGINEERING SPECIFICATION

CONTINUATION SHEET

TITLE H7834 POWER SUPPLY

1.1.2.2.2 (continued)

- b) Initial tolerance $\pm 3\%$
- c) Static line regulation: $\pm 0.5\%$
- d) Static load regulation: $\pm 4\%$
- e) Long term stability: $\pm 0.1\%/1000$ hrs.
- f) Thermal drift: $-0.05 \pm .05\%/^{\circ}\text{C}$
- g) Ripple: 200 MV p-p max for $f \leq 20$ KHz
- h) Noise: 1% peak at $f \leq 100$ KHz
- i) Dynamic load regulation: $\pm 3.5\%$ based upon any one of the following load conditions
 - 1) $2 \pm 0.25\text{A}$ load switched at 50% duty cycle at a PRF of 5 to 500 Hz (minimum loading on -21V output during this time).
 - 2) Triangular pulsed load of $7 \pm 1\text{A}$ peak amplitude, average value of $3.5 \pm 0.25\text{A}$ pulse width of 1 ± 0.1 msec (msec) at base of triangle, and a PRF of 0 to 140 Hz (identical loading on -21V output during this time).
 - 3) Triangular pulsed load of $2 \pm 0.25\text{A}$ peak amplitude, average value of $1 \pm 0.1\text{A}$, pulse width of 1 ± 0.1 msec (at base of triangle), and a PRF of 0 to 500 Hz (identical loading on -21V output during this time).

1.1.2.2.3 -21 Volt Output

The -21 volt output shall have the following characteristics as measured at Pin 5 (Pin 6 return) of J2:

- a) Overall regulation: $\pm 10\%$
- b) Initial tolerance: $\pm 3\%$
- c) Static line regulation: $\pm 0.5\%$
- d) Static load regulation: $\pm 4\%$
- e) Long term stability: $\pm 0.1\%/1000$ hrs.
- f) Thermal Drift: $-0.05 \pm 0.5\%/^{\circ}\text{C}$
- g) Ripple: 200 MV p-p maximum for $f \leq 20$ KHz

SIZE	CODE	NUMBR	REV
A	SP	H7834- β -2	

ENGINEERING SPECIFICATION

000101

CONTINUATION SHEET

TITLE H7834 POWER SUPPLY

1.1.2.2.3 (continued)

- h) Noise: 1% peak at $f \leq 100$ KHz
- i) Dynamic load regulation: $\pm 3.5\%$ based upon any one of the following load conditions
- 1) $2 \pm 0.25A$ load switched at 50% duty cycle at a PRF of 5 to 500 Hz (minimum loading on +21V output during this time).
 - 2) Triangular pulse load of $7 \pm 1A$ peak amplitude, average value of $3.5 \pm 0.25A$, pulse width of 1 ± 0.1 msec (at base of triangle) and a PRF of 0 to 140 Hz. (identical loading on +21V output during this time).
 - 3) Triangular pulsed load of $2 \pm 0.25A$ peak amplitude, average value of $1 \pm 0.1A$, pulse width of 1 ± 0.1 msec (at base of triangle) and a PRF of 0 to 500 Hz (identical loading on +21V output during this time).

1.1.2.2.4 +12 Volt Output

The +12 volt output shall have the following characteristics as measured at Pin 8 (Pin 1 return) of J2:

- a) Overall regulation: $\pm 5\%$
- b) Initial tolerance: $\pm 4\%$
- c) Static line regulation: $\pm 0.25\%$
- d) Static load regulation: $\pm 0.25\%$
- e) Long term stability: $\pm 0.2\%/1000$ hrs
- f) Thermal drift: $\pm .004\%/^{\circ}C$
- g) Ripple: 2.0 MV p-p max for $f \leq 20$ KHz
- h) Noise: 1% peak at $f \leq 100$ KHz
- i) Dynamic load regulation: TBDL

SIZE	CODE	NUMBER	REV
A	SP	H7834- β -2	

ENGINEERING SPECIFICATION

000101

CONTINUATION SHEET

TITLE H7834 POWER SUPPLY

1.1.2.2.5 -12 Volt Output

The -12 volt output shall have the following characteristics as measured at Pin 9 (Pin 1 return) of J2):

- a) Overall regulation: $\pm 5\%$
- b) Initial tolerance: $\pm 3.5\%$
- c) Static line regulation: $\pm 0.2\%$
- d) Static load regulation: $\pm 0.7\%$
- e) Long term stability: $\pm 0.2\%/1000$ hrs.
- f) Thermal drift: $\pm .002\%/^{\circ}C$
- g) Ripple: 2.0 MV p-p max for $f \leq 20$ KHz
- h) Noise: 1% peak at $f \leq 100$ KHz
- i) Dynamic load regulation: TBDL

1.1.2.3 Overload Protection

Overload protection is provided for all outputs.

1.1.2.3.1 +5V Output

Current limit point: $3.5 \pm 0.3A$
Short circuit current ($R \leq .050$ ohms) :
2.0A maximum

1.1.2.3.2 +21V Output

Current limit point: $2.8 \pm 0.3A$
Short circuit current ($R \leq .050$ ohms) :
6.0A maximum

1.1.2.3.3 -21V Output

Current limit point: $2.8 \pm 0.3A$
Short circuit current ($R \leq .050$ ohms) :
6.0A maximum

1.1.2.3.4 +12V Output

Current limit point: $0.4 \pm 0.1A$
Short circuit current: 0.65A maximum

SIZE	CODE	NUMBER	REV
A	SP	H7834- β -2	

TITLE H7834 POWER SUPPLY

1.1.2.3.5 -12V OutputCurrent limit point: $0.4 \pm 0.1A$

Short circuit current: 0.65A maximum

1.1.2.4 Overvoltage Protection

Overvoltage protection is provided for the +5.0V output.

Overvoltage limit point: $+5.4 \pm 0.1$ VDC1.2 Environmental Conditions

The H7834 power supply module shall perform as specified herein when installed in the LA34 terminal under the following environmental conditions:

1.2.1 Ambient Temperature

a) Operating: 0 to 40°C

b) Non-operating: -40 to +85°C

1.2.2 Temperature Shock

1°C/sec

1.2.3 Humidity

Per DEC Standard 102 Class B and Paragraph 3.1 and 3.2

1.2.4 Shock

Per DEC Standard 102 Class B and Paragraph 5.1 and 5.2

1.2.5 Vibration

Per DEC Standard 102 Class and Paragraph 6.1 and 6.2

1.3 Design and Construction

Design and construction of the power supply module shall be in accordance with drawing E-UA-H7834-0-0 and this specification.

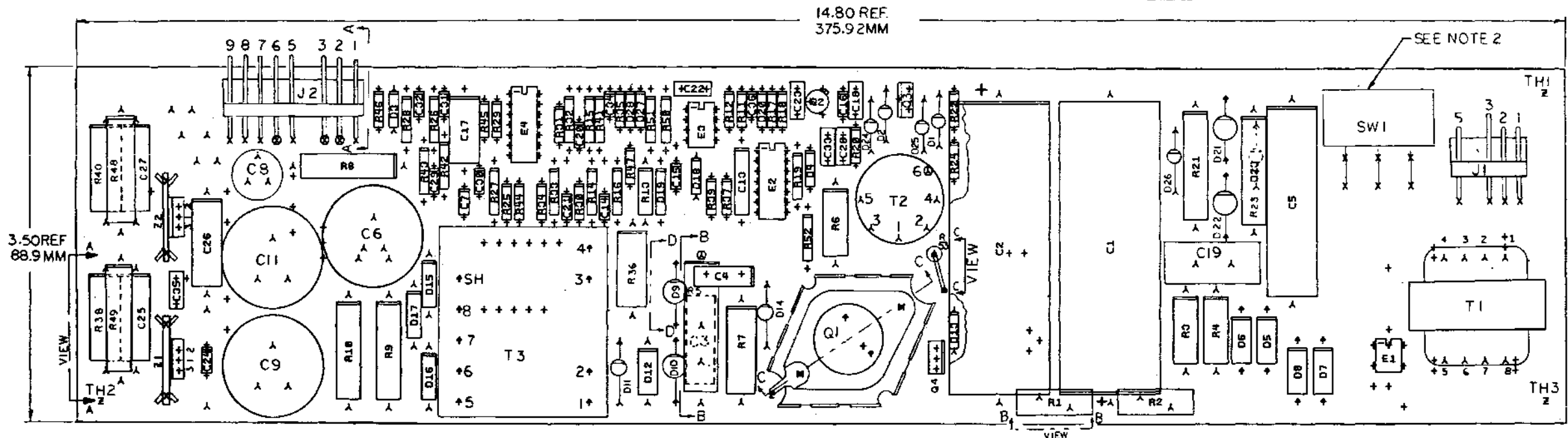
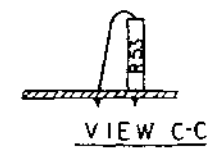
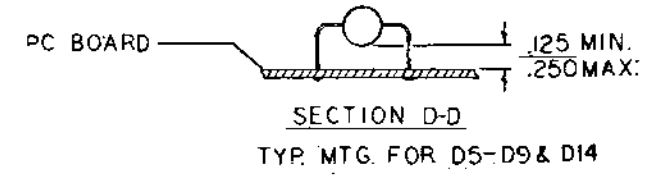
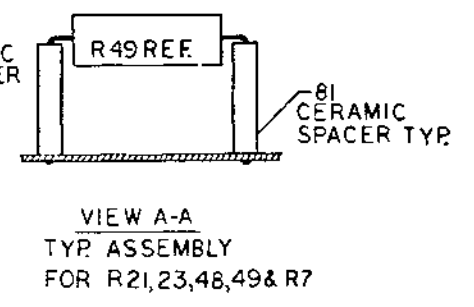
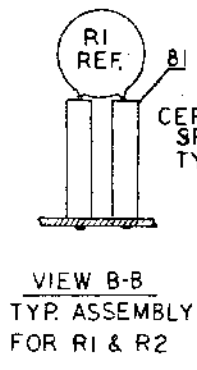
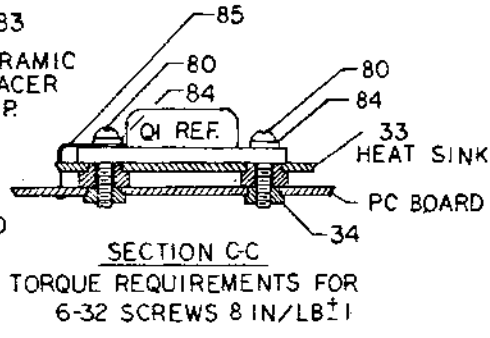
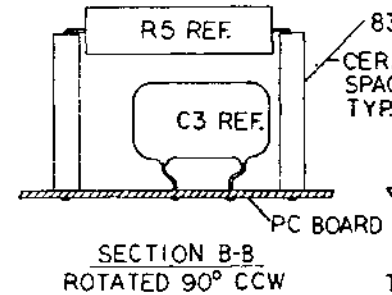
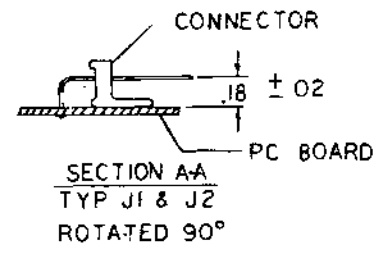
1.4 Operational Failure Rate

The calculated effective failure rate shall be NGT 20×10^{-6} failures per hour.

SIZE	CODE	NUMBER	REV
A	SP	H7834- β -2	

1979

COMPONENT SIDE VIEW



NOTES:
1. THIS BOARD MUST MEET W/L REQ.
2. SW1 MUST BE HAND INSERTED AND HAND SOLDERED AFTER WAVE SOLDER.

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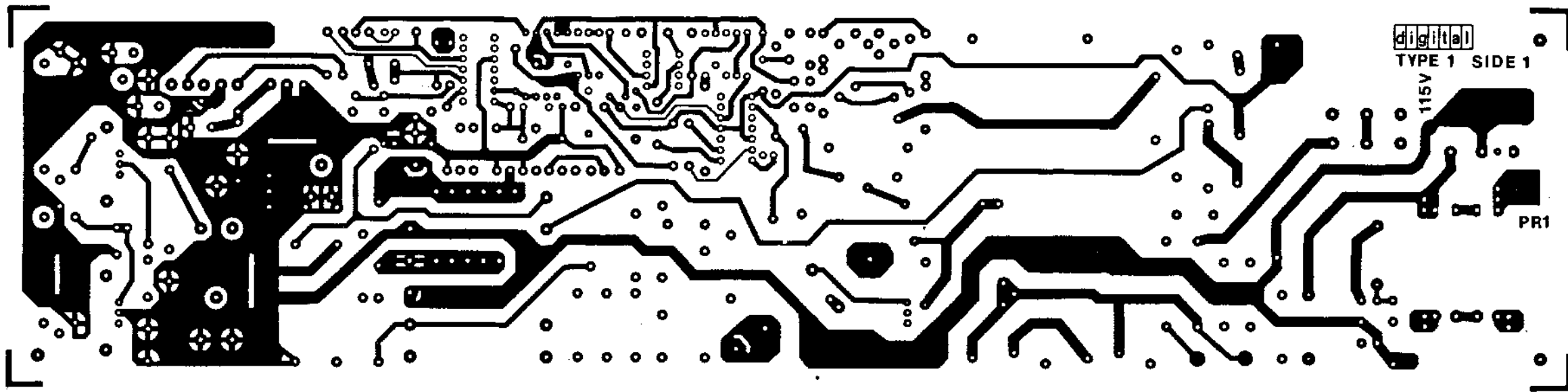
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SIGNATURES	DATE	digital
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CHK'D. COSTA	1-29-78	
ENC. RALPH M. MACKENZIE	3-5-78	TITLE LA34
PROJ. ENG. R. M. MACKENZIE	3-5-78	POWER SUPPLY
PROD. V. ERDEKIAN	6-3-78	
SCALE 2:1		SIZE CODE NUMBER
SHT. 1 OF 3		0 UA 5413325-0-0
NEXT HIGHER ASSY. E-UA-H7834-0-0		REV

8 7 6 5 4 3 2 1 MS#

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0-0-2244195 V1 Q 2



digital
TYPE 1 SIDE 1

115V

PR1

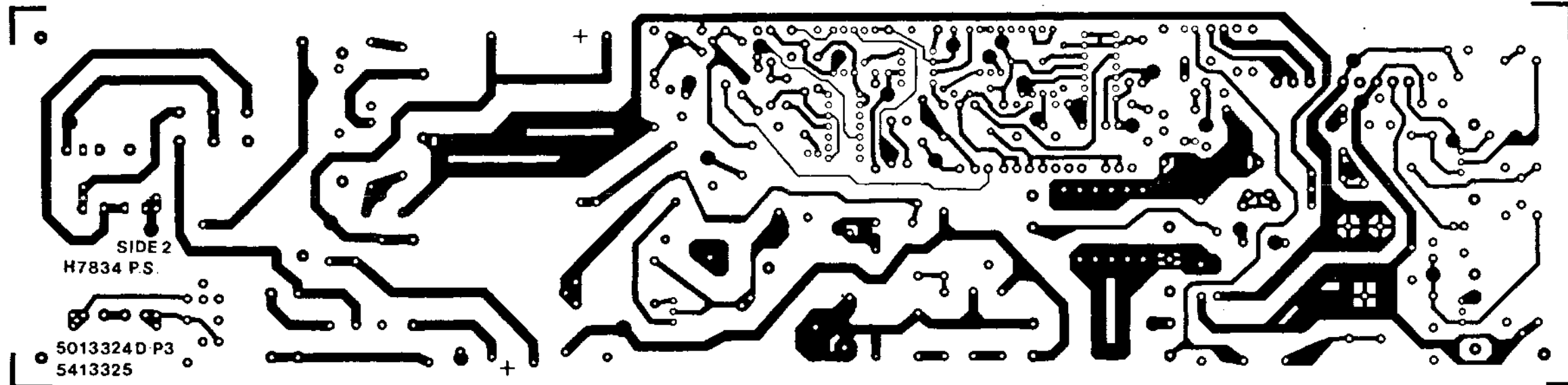
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CHK	CHANGE NO	REV

TITLE LA34 POWER SUPPLY
SCALE 2:1 SHEET 2 OF 3
SIZE CODE D UA
NUMBER 541332500
REV J

DUA 5413325-0-0 J

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DUA 5413325-0-0 J 2



REVISIONS		
CHK	CHANGE NO	REV

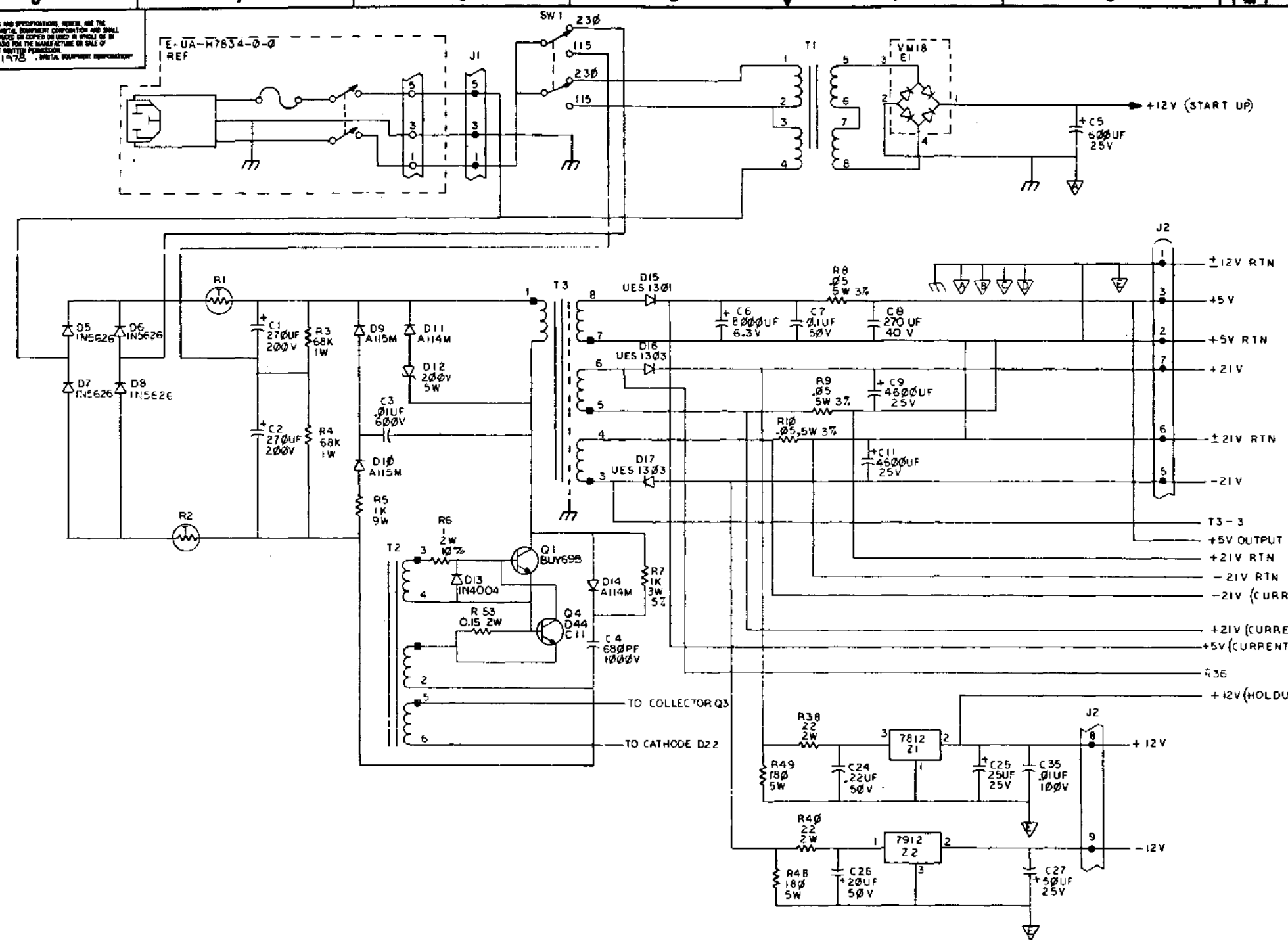
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LA34 POWER SUPPLY	D UA	5413325-0-0	J
SCALE 2:1	SHEET 3 OF 3	LIST	

DUA 5413325-0-0 J

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E-UA-M7834-0-0 REF

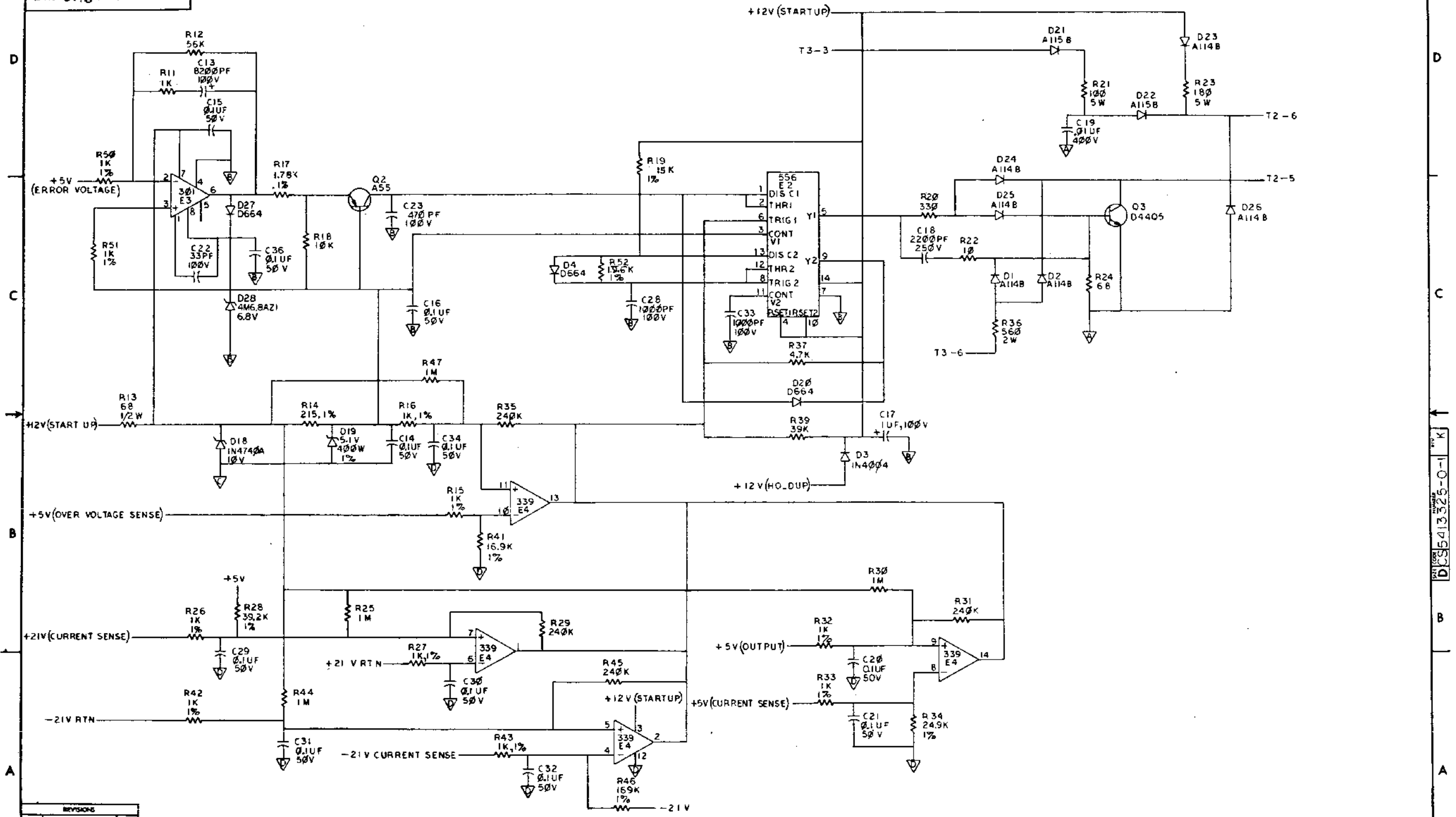
NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL RESISTORS ARE 1/4 W, 5%.



ORIG. <i>J. Desuk</i>	9/22/78	FIRST USED ON	LA34
CHKD. <i>J. Desuk</i>	9/17/78	TITLE	LA34
ENG. <i>J. Desuk</i>	9/17/78	POWER SUPPLY	
PROJ. ENG. <i>J. Desuk</i>	9/17/78	SIZE	CODE
PROD. <i>J. Desuk</i>	9/17/78	NUMBER	REV
NEXT HIGHER ASSY.		D-1A-5413325-0-0	D CS 5413325-0-1 K
SCALE	1:1	SHEET	2 OF 2

REV.	DATE	BY	CHKD.
1	9/17/78	J. DESUK	J. DESUK
2	9/22/78	J. DESUK	J. DESUK
3	9/22/78	J. DESUK	J. DESUK
4	9/22/78	J. DESUK	J. DESUK
5	9/22/78	J. DESUK	J. DESUK
6	9/22/78	J. DESUK	J. DESUK
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REVISIONS		
CHK	CHANGE NO.	REV.

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
				00	
1	1	D-MD-5013324-0-0	LA34 POWER SUPPLY	1	
2	2	1000009-00	33.0 MMF 100V 5%200PPM MICA	1	C22
3	3	1000042-00	1000.0 MMF 100V 5%200PPM MICA	2	C28,C33
4	4	1000055-00	2200.0 MMF 250V 20% Y5S DISC	1	C18
5	5	1000061-00	.0082 MFD 100V 10% MYLR	1	C13
6	6	1000075-00	25 MFD 25V +75-10% AL EL	1	C25
7	7	1001610-01	.01 MFD50/100V +80-20% DISC	1	C35
8	8	1001796-00	50 MFD 25V +75-10% AL EL	1	C27
9	9	1002837-00	20 MFD 50V +75-10% AL EL	1	C26
10	10	1005507-00	1 MFD 100V +50-10% AL EL	1	C17
11	11	1011847-01	.01 MFD 400V 10% POLYPROP	1	C19
12	12	1011847-02	.01 MFD 600V 10% POLYPROP	1	C3
13	13	1011849-01	600 MFD 25V +75-10% AL EL	1	C5
14	14	1013280-00	680.0 MMF 1000V 5%200PPM MICA	1	C4
15	15	1014265-00	.22 MFD 50V +80-20% CER	1	C24
16	16	1014265-01	.1 MFD 50V +80-20% CER	12	C7,C14,C15,C16,C21,C29,C30,C31, CONT C32,C34,C36,C20
17	17	1015466-00	8000 MFD 6.3V +75-10% AL EL	1	C6
18	18	1015377-00	4600 MFD 25V +75-10% AL EL	2	C9,C11
19	19	1015519-00	270 MFD 200V +50-10% AL EL	2	C1,C2
20	20	1100114-00	D 664 QS\75PCB PIV= 25V SP	3	D4,D20,D27
21	21	1105796-00	1N 4004 PIV=400 I= 1A D041 SP	2	D3,D13
22	22	1105873-00	4M5-1AZ1 VZ= 5.1 1% .400W	1	D19
23	23	1112594-01	A115R PIV=200 I= 3A	2	D21,D22
24	24	1112594-02	A115M PIV=600 I= 3A	2	D9,D10
25	25	1112595-01	A114B PIV=200 I= 1A	6	D1,D2,D23-D25,D26
26	26	1112595-02	A114M PIV=600 I= 1A	2	D11,D14
27	27	1113123-00	1.5K3200 VOLT.TRANS.SUPPRESS. 220	1	D12
28	28	1114377-00	1N 4740A VZ= 10.0 5% 1W	1	D18
29	29	1114893-00	UES1301 PIV= 50 I= 6A	1	D15

REVISION HISTORY		BASIC PART NO: 5413325		DRN:	R E JOSEPHSON	DATE:	21-FEB-78	DIGITAL			
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D:	T. SHETRAWSKI	DATE:	7-JUN-78	TITLE PARTS LIST			
---	INIT	B	SECTION VARIATION INDEX	CHK'D:	T. SHETRAWSKI	DATE:	7-JUN-78	H7834 POWER SUPPLY MODULE			
JD	IPN001	C	[A] 00								
JB	IPN003	D	[B]								
JB	IPN002	E	[C]	DES.ENG:	RALD MACKENZIE	DATE:	7-JUN-78				
JB	IPN004	F	[D]								
JB	IPN005	H	[E]					DOCUMENT NUMBER			
GC	IPN007	J	[F]	RESP.ENG.:	R MACKENZIE	DATE:	7-JUN-78				
			[G]					SIZE	CODE	NUMBER	REV
			[J]								
			[K]	IMG.ENG.:	DON BEVINS	DATE:	7-JUN-78	K	PL	5413325-0-DBP	J
			[L]								
			[M]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #	
			[N]	IE-UA-5413325-0-0		IB-DD-5413325-0-0		13325J.PLS		32	

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LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
				00		
30	30	1115182-00	1N 5626 PIV=600 I=3A	4		D5-D8
31	31	1115272-00	UES1303 PIV=150 I=6A	2		D16,D17
32	32	1115369-00	VM 18 PIV=100 I=1A	1		E1
33	33	1213426-04	HEAT SINK TO-3 CLEAR ANODIZED	1		
34	34	1214789-00	INSERT,THREADED 6-32 ,BRASS,ELEC	2		
35	35	1215307-00	HEADER 9POS RIGHT ANGLE	1		J2
36	36	1215307-01	HEADER 5POS RIGHT ANGLE	1		J1
37	37	1216064-00	SW,LOCK 2P RIGHT ANGLE TER	1		SW1
38	38	1300219-00	68.0 .25 W 5.0 % CC	1		R24
39	39	1300295-00	330.0 .25 W 5.0 % CC	1		R20
40	40	1300365-00	1.0 K .25 W 5.0 % CC	1		R11
41	41	1300447-00	4.70 K .25 W 5.0 % CC	1		R37
42	42	1300479-00	10.0 K .25 W 5.0 % CC	1		R18
43	43	1301317-00	10.0 .25 W 5.0 % CC	1		R22
44	44	1314675-00	1.0 K 3.0 W 5.0 % WW	1		R7
45	45	1301546-00	22.0 2.0 W 5.0 % CC	2		R38,R40
46	46	1301927-00	560.0 2.0 W 5.0 % CC	1		R36
47	47	1302395-00	56.0 K .25 W 5.0 % CC	1		R12
48	48	1302514-00	39.0 K .25 W 5.0 % CC	1		R39
49	49	1303114-00	1.0 K .25 W 1.0 % RN55D-F10	10		R15,R16,R26,R27,R32,R33,R42,R43,
					CONT	R50,R51
50	50	1302612-00	1.78 K .25 W 1.0 % RN55D-F10	1		R17
51	51	1305123-00	215.0 .25 W 1.0 % RN55D-F10	1		R14
52	52	1305265-00	39.20 K .25 W 1.0 % RN55D-F10	1		R28
53	53	1305405-00	24.90 K .25 W 1.0 % RN55D-F10	1		R34
54	54	1309094-00	100.0 5.0 W 5.0 % WW	1		R21
55	55	1309405-00	68.0 .50 W 5.0 % CC	1		R13
56	56	1313752-00	15.0 K .25 W 1.0 % RN55D-F10	1		R19
57	57	1309595-00	1.0 M .25 W 5.0 % CC	4		R25,R30,R44,R47
58	58	1310876-03	.05 5.0 W 3.0 % WW	3		R8-R10
59	59	1312618-00	16.90 K .25 W 1.0 % RN55D-F10	1		R41
60	60	1312655-00	180.0 5.0 W 5.0 % WW	3		R23,R48,R49
61	61	1312925-00	169.0 K .25 W 1.0 % RN55D-F10	1		R46
62	62	1313191-00	1.0 K 9.0 W 5.0 % WW	1		R5
63	63	1314253-00	240.0 K .25 W 5.0 % CC	4		R29,R31,R35,R45
64	64	1314270-00	5.0 15.0 % NTC THERM	2		R1,R2
65	65	1314350-00	1.0 2.0 W10.0 % FUSE	1		R6
66	66	1315586-00	68.0 K 1.0 W 5.0 % CC	2		R3,R4
67	67	1510706-00	XA 55 PNP 500MW SI 60 50 P	1		Q2
68	68	1512782-00	NPN 100W S1325 15	1		Q1
69	69	1514271-01	D 4405 NPN 31W S1225 30	1		Q3
70	70	1614778-00	XFMR P-AB S=6.0@ 100MA	1		T1
71	71	1612920-02	PULSE XFMR 30KHZ VT61	1		T2
72	72	1615559-01	XFMR P=240/360DC 54-13325	1		T3
73	73	1910282-00	301AN OP AMP	1		E3
74	74	1912048-01	*** THIS ITEM IS NOT USED ***	-		
75	75	1912108-00	339 VOLT CMPRTR,QUAD	1		E4
76	76	1914392-00	556 TIMER-DUAL	1		E2

! D ! I ! G ! I ! T ! A ! L !	! T ! I ! T ! L !	! H7834 POWER SUPPLY MODULE !	! S ! E ! C ! T ! I ! O ! N ! A ! O ! F ! A !	! S ! I ! Z ! E ! C ! O ! D ! E !	! D ! O ! C ! U ! M ! E ! N ! T ! N ! U ! M ! B ! E ! R !	! R ! E ! V !
				! K !	! P ! L !	! 5413325-0-DBP !
						! J !

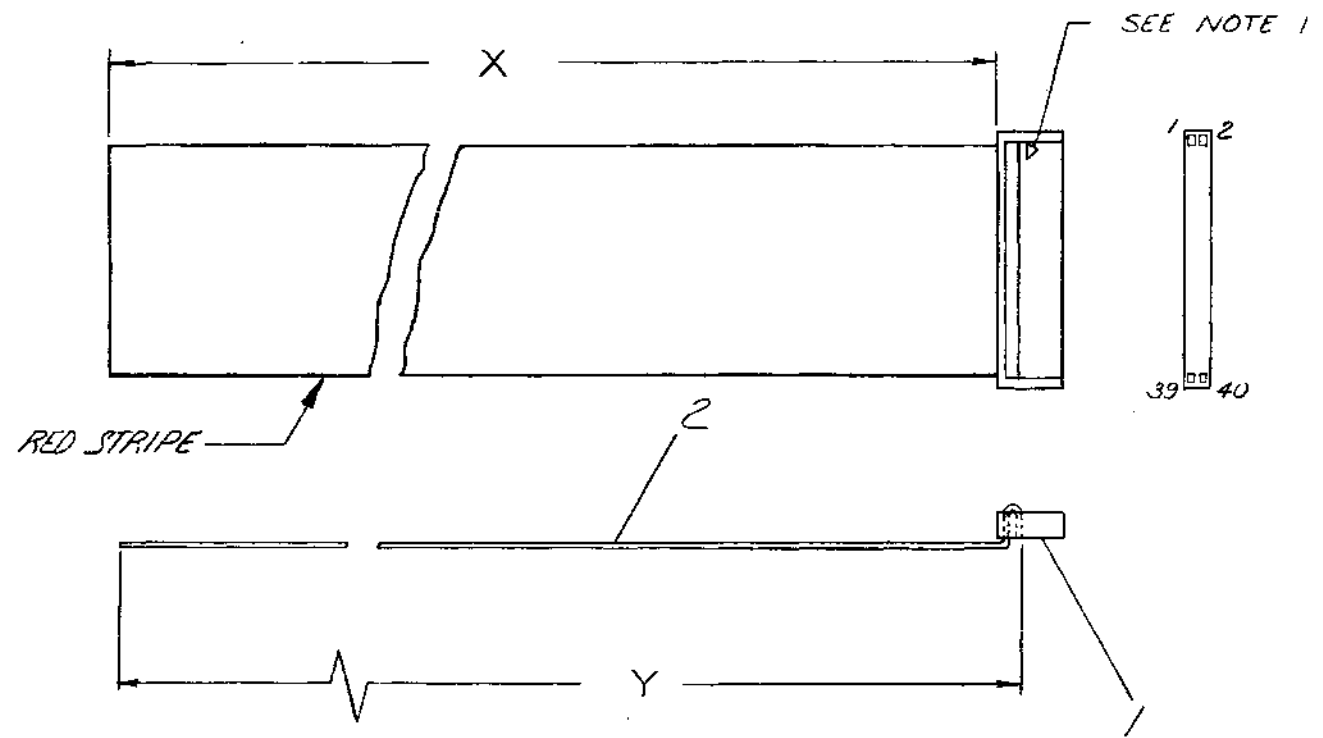
LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION		REFERENCE DESIGNATOR
				00		
77	77	1914517-01	*** THIS ITEM IS NOT USED ***	-		
78	78	7015917-00	HEAT SINK ASSY	1		Z1
79	79	7015917-01	HEAT SINK ASSY	1		Z2
80	80	9006023-01	SCREW,PAN,PHIL 6-32X 7/16 SS	2		
81	81	9009798-00	SPACER, CERAMIC, .186 ODX.078 ID	14		
82	82	9009798-01	*** THIS ITEM IS NOT USED ***	-		
83	83	9009798-02	SPACER, CERAMIC, .186 ODX.078 ID	2		
84	84	9009882-00	WASHER, LOCK, INT TOOTH #6	2		
85	85	9009676-00	TERM LUG 1POS SOLDER	1		
86	86	1309419-00	19.40 K .25 M 1.0 % RN55D F10	1		R52
87	87	1000020-00	*** THIS ITEM IS NOT USED ***	-		
88	88	1310147-00	.15 2.0 W10.0 % WW	1		R53
89	89	1109991-01	4M6.8A21 VZ= 6.8 1% .40W	1		D28
90	90	1512790-00	D 44C12 NPN 30W 5I	1		Q4
91	91	1012607-04	270 MFD 40V+100-10% AL EL	1		C8
92	92	1000024-00	470.0 MMF 100V 5%200PPM MICA	1		C23

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							H7834 POWER SUPPLY MODULE		K	PL	5413325-0-DBP	J

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LEGEND		
NUMBER	DIA X VARIATION	DIM Y (PRE-CUT) REF
7015741-0K	8.5 IN ±.5 IN	9.0 IN

NOTES:
1. ARROW OR INDEX MARK ON ITEM #1 INDICATES CONTACT POSITION POSITION #1



REV.	CHANGE NO.	REVISIONS

1/4	CABLE, 40 COND FLAT	9107738-01	2				
1	CONN, 40 POSITION	1211206-00	1				
DESCRIPTION		DWG./PART NO.	ITEM NO.				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES							
ANGLES 30° 30'	CLASS OF ACCURACY CHECK ONLY	NOMINAL DIMENSION RANGE INCHES					
		OVER 0 TO 0.2	OVER 0.2 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0
SURFACE QUALITY IN MICROINCHES	MEDIUM	±.004	±.008	±.012	±.016	±.024	±.04
	PREFERRED	±.012	±.016	±.025	±.04	±.062	±.01
THIRD ANGLE PROJECTION	DRN <i>[Signature]</i>	FIRST USED ON LA134 <i>digital</i>					
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D <i>[Signature]</i>	TITLE CABLE KEYBOARD ASSY					
DO NOT SCALE DWG	ENG <i>[Signature]</i>	PROJECT CABLE KEYBOARD ASSY					
MATERIAL SEE PARTS LIST	PROD <i>[Signature]</i>	NEXT HIGHER ASSY.					
FINISH	D-AD-7015514-0-0	SIZE CODE C IA	NUMBER 7015741-0-0				
	SCALE	SHEET	REV.				
		1 OF 1					

WORKFACE P-188

DEC FORM NO. 100 1964C

REV. NUMBER 7015741-0-0

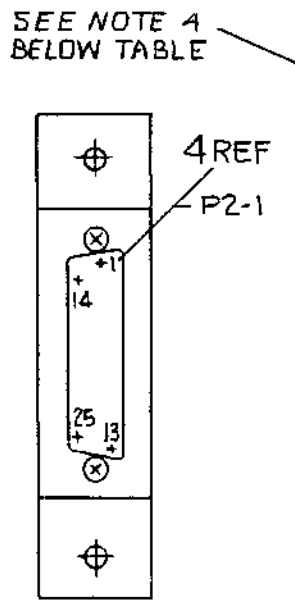
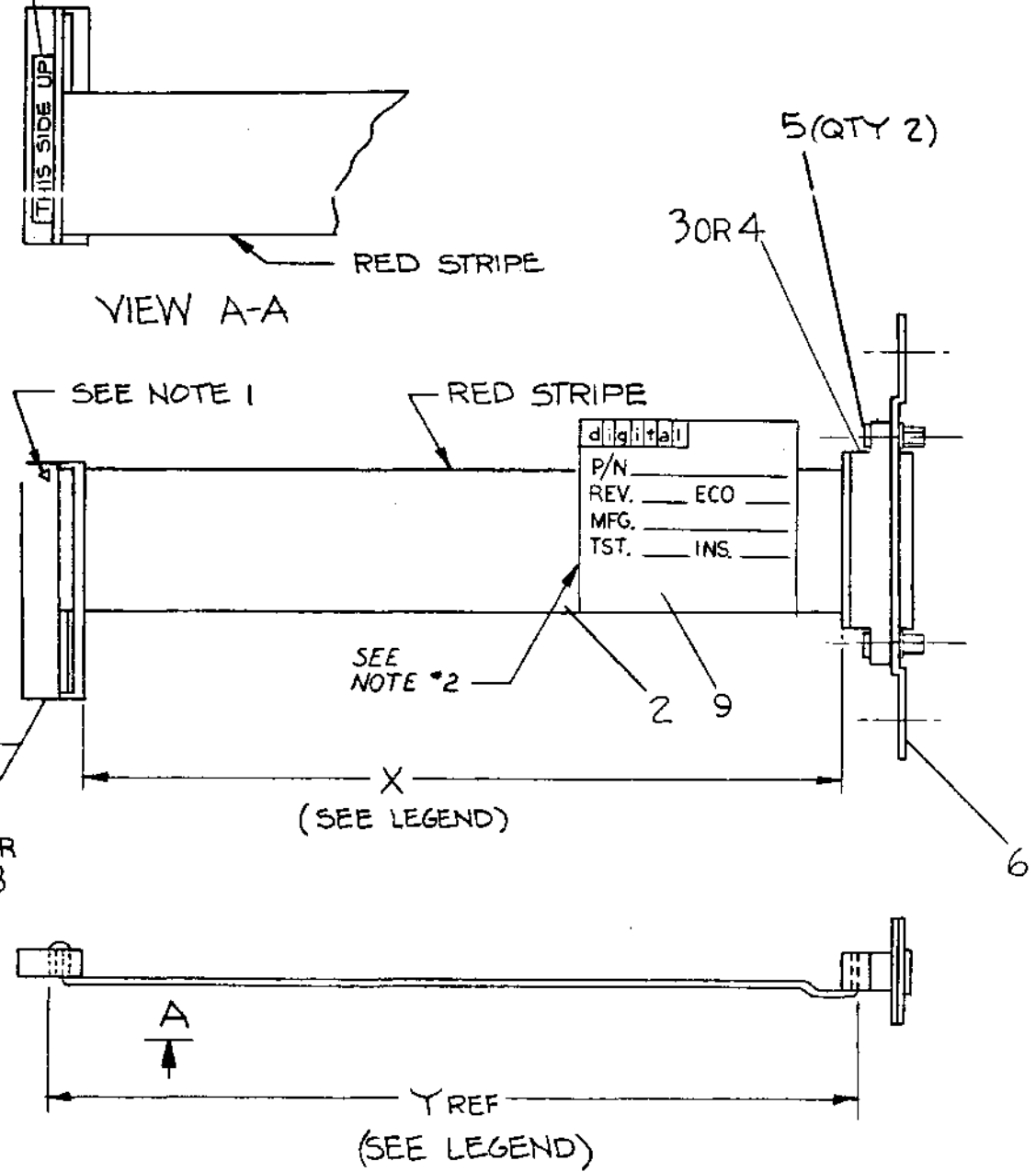
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LEGEND

NUMBER	DIM X VARIATION	DIM Y (PRECUT) REF	USED ON	REMARKS
7015386-0J	7.0 IN ±.5 IN	8.5 IN	LA120	AS SHOWN
7015386-3F	3 FT ±1 IN	3 FT 1.5 IN	LA34	SEE NOTE #3

- NOTES:
- ARROW OR INDEX MARK ON ITEM #1 INDICATES CONTACT POSITION #1.
 - EITHER OF TWO METHODS OF CABLE IDENTIFICATION ARE ACCEPTABLE: I.D. LABEL, P/N 3616073-00 (FOLDED IN HALF AROUND CABLE) OR RUBBER STAMP. LABEL OR STAMP SHALL CONTAIN THE FOLLOWING; DEC PART NO., REV, AND DATE CODE.
 - FOR THE -3F VARIATION WHEN USED ON THE LA34 FAMILY PRINTERS REMOVE PINS 13, 14, 15, 18, 21 AND 25 FROM P2 BEFORE CABLE IS ASSEMBLED.



SIGNAL NAME CONVERSION TABLE

P2 PIN DESIGNATION	SIGNAL NAME	PIN DESIGNATION	EIA CIRCUIT NAME	C.C.I.T.T EQUIVALENT	C.C.I.T.T SIGNAL NAME (REF)
1	PROTECTIVE GND	1	AA	101	PROTECTIVE GND
2	TXD. EIA. L	3	BA	103	TRANSMIT DATA
3	RXD. EIA. L	5	BB	104	RECEIVE DATA
4	RTS EIA. H	7	CA	105	REQUEST TO SEND
5	CTS. EIA. H	9	CB	106	CLEAR TO SEND
6	DSR. EIA. H	11	CC	107	DATA SET READY
7	SIG. GND SAFETY	13	AB	102	SIG. GND. COMMON RETURN
20	DTR. EIA. H	14	CD	108.2	DATA TERMINAL READY
8	CD. EIA. H	15	CF	109	RECEIVED LINE SIG. DETECTOR
22	RI. EIA. H	18	CE	125	RING INDICATOR

4. CONVERSION TABLE ABOVE IS FOR LA34 ONLY.

REVISIONS

CHK	CHANGE NO.	REV.
J. J.	LA34 - PNO01	A
A. Nelson	LA34 - PNO01	B
P. NELSON	LA34 - PNO01	C
P. NELSON	LA34 - PNO01	D
P. NELSON	LA34 - PNO01	E
P. NELSON	LA34 - PNO01	F
P. NELSON	LA34 - PNO01	G
P. NELSON	LA34 - PNO01	H
P. NELSON	LA34 - PNO01	I
P. NELSON	LA34 - PNO01	J

SEE K-PL-7015386-0-DBP

DESCRIPTION	DWG./PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
ANGLES 10° 30'	CLASS OF ACCURACY	NOMINAL DIMENSION RANGE INCHES
SURFACE QUALITY IN	MICROINCHES	OVER 0 TO 0.2
		OVER 0.2 TO 0.4
MEDIUM	PREFERRED	OVER 0.4 TO 1.2
		OVER 1.2 TO 4.0
MICROINCHES	PREFERRED	OVER 4.0 TO 12.0
		OVER 12.0 TO 40.0
MICROINCHES	PREFERRED	OVER 40.0 TO 80.0
		OVER 80.0 TO 100.0

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL SEE PARTS LIST

FINISH

DRN: [Signature] 13 JAN 78

CHK'D: [Signature] 18 APR 78

ENG: [Signature] 21 APR 78

PROJ. ENG: [Signature] 20 APR 78

PROD. [Signature] 1 MAY 78

FIRST USED ON LA120 digital

TITLE EIA CABLE ASSEMBLY

SIZE C CODE IA NUMBER 7015386-0-0 REV. H

SHEET 1 OF 1

D
C
B
A

D
C
B
A

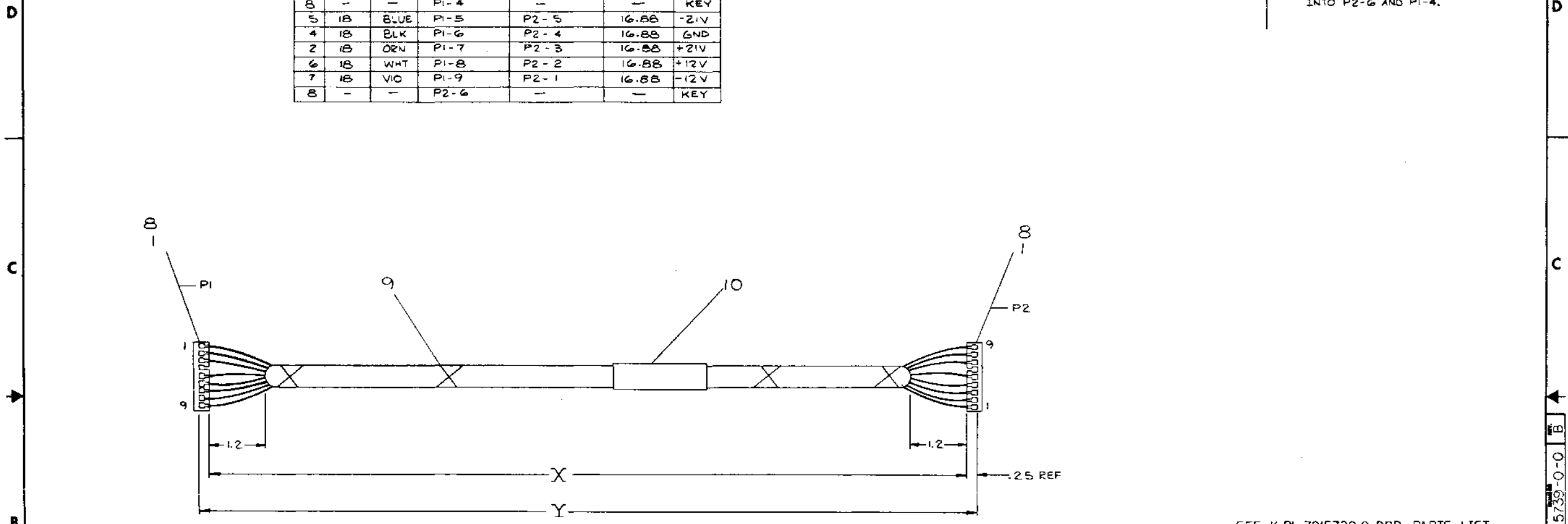
REV. H
NUMBER 7015386-0-0
SIZE CODE CIA

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WIRE TABLE						
ITEM NO.	DESCRIPTION	FROM	TO	LENGTH	SIGNAL	
4	18 AWG BLK	P1-1	P2-9	16.88	GND	
4	18 AWG BLK	P1-2	P2-8	16.88	GND	
3	18 AWG RED	P1-3	P2-7	16.88	+5V	
8	-	P1-4	-	-	KEY	
5	18 AWG BLUE	P1-5	P2-5	16.88	-21V	
4	18 AWG BLK	P1-6	P2-4	16.88	GND	
2	18 AWG ORN	P1-7	P2-3	16.88	+21V	
6	18 AWG WHT	P1-8	P2-2	16.88	+12V	
7	18 AWG VIO	P1-9	P2-1	16.88	-12V	
8	-	P2-6	-	-	KEY	

LEGEND		
NUMBER	DIM 'X' VARIATION	DIM 'Y' (PRECUT) REF
7015739-1E	16.88 IN ± 1.0 IN	16.88 IN

- NOTES:
- USE CABLE TIES (X) ITEM 9 APPROXIMATELY EVERY FOUR (4) INCHES.
 - NO STRIPPING OR TINNING REQUIRED.
 - KEY PLUG ITEM #8 TO BE INSERTED INTO P2-6 AND P1-4.



SEE K-PL-7015739-0-DBP, PARTS LIST

ITEM NO.	DESCRIPTION	DWG. PART NO.	ITEM NO.
1	LABEL, ADHESIVE	3616073-00	1
9	CABLE TIE	9010190-00	9
8	KEY PLUG	1215388-00	8
7	AIR WIRE, 18 AWG VIOLET STRD	9107360-77	7
6	AIR WIRE, 18 AWG WHITE STRD	9107360-99	6
5	AIR WIRE, 18 AWG BLUE STRD	9107360-66	5
4	AIR WIRE, 18 AWG BLACK STRD	9107360-00	4
3	AIR WIRE, 18 AWG RED STRD	9107360-22	3
2	AIR WIRE, 18 AWG ORANGE STRD	9107360-33	2
1	HOUSING, PLUG (9 PIN)	1215306-00	1

REV.	DATE	BY	CHK'D	APP'D
1	10/1/79	J. BITTO	J. BITTO	J. BITTO
2	10/1/79	J. BITTO	J. BITTO	J. BITTO

THIRD ANGLE PROJECTION	QUANTITY & VARIATION	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
REMOVE BURRS AND BREAK SHARP CORNERS	DO NOT SCALE DWG	MATERIAL SEE PARTS LIST
FINISH	SCALE NONE	SHEET OF 1
CLASS OF ACCURACY	CHECK ONE	PRECISION
SURFACE QUALITY	MEDIUM	PREferred
FINISH	SCALE NONE	SHEET OF 1
DRN. DEANIS	10/1/79	FIRST USED ON
CHK'D	10/1/79	LAB 34
ENG'D	10/1/79	TITLE
PROJ. ENG.	10/1/79	CABLE ASSY.
PROD.	10/1/79	LOGIC / POWER
DO NOT SCALE DWG	SCALE NONE	SIZE CODE
MATERIAL	E-AD-7015729-0-0	D I A
FINISH	SCALE NONE	NUMBER
SHEET	OF 1	7015739-0-0
		REV. B

DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS													
				D	E	F	H	J	K	L	M	M					
D-UA-5413747-0-0	2		LA34 CONTROL BOARD	D	E	F	H	J	K	L	M	M					
D-CS-5413747-0-1	5		LA34 CONTROL BOARD	D	E	F	H	J	K	L	M	M					
K-PL-5413747-0-DBP	3		PARTS LIST DATA BASE	D	E	F	H	J	K	L	M	M					
K-PC-5413747-0-DBC			DESIGN DATA BASE	E	E	E	E	E	E	E	E	E					
		5013746	P.C. BOARD	E	E	E	E	E	E	E	E	E					
D-MD-5013746-0-0	4		DRILL & ETCH DRAWING	D	D	D	D	D	D	D	D	D	E				
D-EC-5013746-0-Ø	2		ETCH CUT DRAWING	D	D	D	D	D	D	D	D	D					

NOTES:

REVISIONS	DATE	CHG NO.	REV.	ORIG	E	F	H	J	K	L	M	N
	4-80	PN001										
	9-80	PN002										
	10-80	PN003										
	1-81	PN004										
	2-81	PN005										
	4-81	PN006										
	5-81	PN007										
	5-81	PN008										

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USED ON OPTION/MODEL
LA34

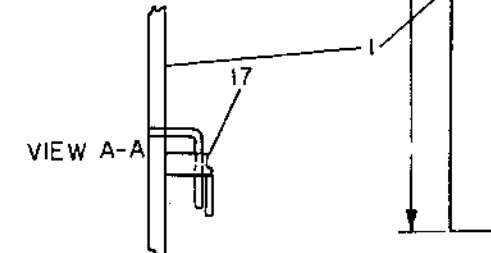
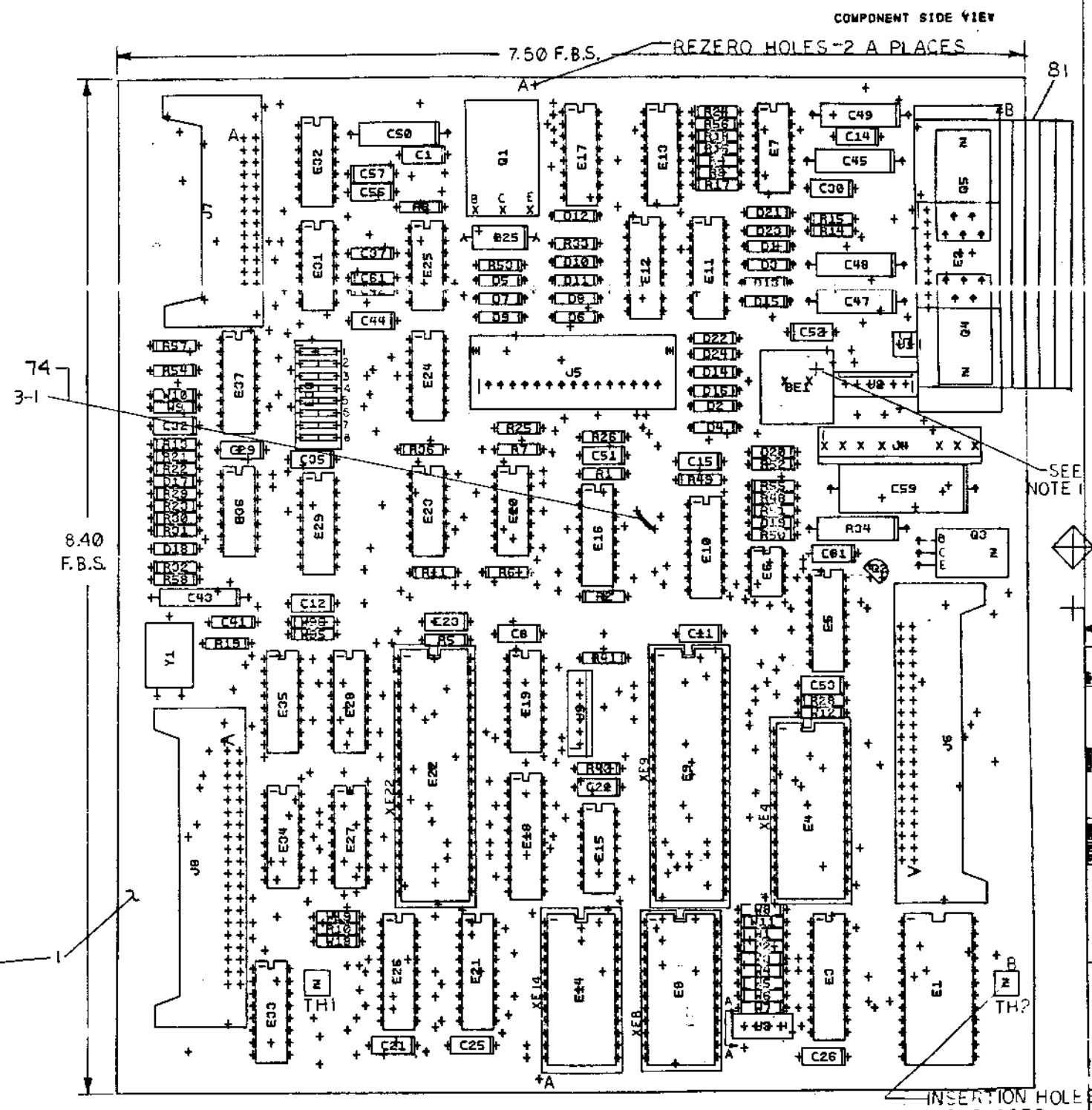
DRN. RITA BUREAU
CHK'D [Signature] 6 JAN 80
ENG. [Signature] 2/11/80
PROD. J. McNamee 7/11/80

30 NOV 79
TITLE LA34 CONTROL BOARD

SIZE	CODE	NUMBER	REV.
B	DD	5413747-0	N

SHEET 1 OF 1

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NOTES: LONG LEAD OF R1 IS ON PLUS (+) SIDE.
2 DO NOT INSTALL C6, E8, XE8, Q4, Q5, W2, 4, 5, 7, 8 & W10.

STEP 1	Y AXIS NO. 5	STEP - TIMES
REPORT	X AXIS NO. 1	STEP 1 TIMES

CHK	CHANGE NO	REV	DATE	BY
1.2	1	1		J. BITTO
1.3	1	1		J. BITTO
1.4	1	1		J. BITTO
1.5	1	1		J. BITTO
1.6	1	1		J. BITTO
1.7	1	1		J. BITTO
1.8	1	1		J. BITTO
1.9	1	1		J. BITTO
1.10	1	1		J. BITTO
1.11	1	1		J. BITTO
1.12	1	1		J. BITTO
1.13	1	1		J. BITTO
1.14	1	1		J. BITTO
1.15	1	1		J. BITTO
1.16	1	1		J. BITTO
1.17	1	1		J. BITTO
1.18	1	1		J. BITTO
1.19	1	1		J. BITTO
1.20	1	1		J. BITTO

ETCH REV. E

SIGNATURES		DATE
DRN. <i>J. Bitto</i>		11/17/68
CHK'D <i>J. Bitto</i>		11/17/68
MECH. ENG. <i>J. Bitto</i>		11/17/68
PROJ. ENG. <i>J. Bitto</i>		11/17/68
PROD. <i>J. Bitto</i>		11/17/68
SCALE 2:1		SIZE CODE NUMBER REV
SHT. 1 OF 2		0 UA 5413747-0-0
NEXT HIGHER P.S.S., 8-DD-5413747-0		

digital

TITLE LAB 34 CONTROL BOARD

PN 1 MS# 160866

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REWORK INSTRUCTIONS

ECO # 3

WIRE ADD SIDE ONE

1. AFTER BOARD HAS BEEN BUILT AND TESTED, TWO ETCHES MUST BE CUT AND A JUMPER WIRE (910574055) ADDED TO THE BOARD. ON SIDE ONE CUT, THE ETCH AT EIO PINS 2 AND 3. ADD A JUMPER WIRE BETWEEN THE TWO FEED THROUGH HOLES IN THE ETCH RUNS FROM EIO PINS 2 AND 3.

REVISIONS		
CHE	CHANGE NO	REV.

TITLE	LA34 CONTROL BOARD	SIZE/COOE	D UA	NUMBER	5413747-0-0	REV.	M
SCALE	2/1	SHEET	2	OF	2	DIST.	

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION				REFERENCE DESIGNATOR
					00	99	01	02	
1	1	D-10-5013746-0-0	5013746-00	DRILL&ETCH BOARD	1	1	1	1	
2	2		1001610-00	.01 MFD 50V +80-20% 250 CER	1	1	1	1	C32
3	3		1005636-00	22 MFD 6V 10% S,TANT	1	1	1	1	C43
4	4		1012084-01	8 MFD 25V +75-10% AL EL	5	5	5	5	C45,C47-C49,C50
5	5		1012219-00	47. MFD 30V +75-10% AL EL	1	1	1	1	C59
6	6		1012784-00	.047 MFD 50V +80-20% CER	21	21	21	21	C1,C8,C11,C12,C14,C15,C21-C23, CONT C25,C26,C29,C30,C31,C35,C44, CONT C51-C53,C56,C57
7	7		1013466-17	2200.0 MMF 50V 10% Y7R CER	1	1	1	1	C42
8	8		1013466-18	330.0 MMF 50V 5% CER	1	1	1	1	C37
9	9		1013466-31	15.0 MMF 50V 5% CER	1	1	1	1	C41
10	10		1101938-00	1N 4370A VZ= 2.4 5% .40W	1	1	1	1	D18
11	11		1105275-00	C 672 TR= 15NS PIV= 60V SI	7	7	7	7	D17,D19-D24
12	12		1105796-00	1N 4004 PIV=400 I= 1A D041 SP	16	16	16	16	D1-D16
13	13		1110854-00	1N 5353B VZ= 16.0V 5% .40W M	1	1	1	1	D25
14	14		1209941-02	HEADER 100 40POS RT ANGLE	2	2	2	2	J6,J8
15	15		1209941-09	HEADER 26POS RT ANGLE RCPT	1	1	1	1	J7
16	16		1211164-04	SW,DIP 1P 1A 8POS	1	1	1	1	E30
17	17		1215921-00	CONN, 4PIN WAFER,RIGHT ANG	1	1	1	1	J3
18	18		1215006-06	SKT,IC 24PIN DIP TIN PLATEE	1	1	1	1	XE14
19	19		1215006-08	SKT,IC 40PIN DIP TIN PLATEE	2	2	2	2	XE22,XE9
20	20		1215323-00	CONN, 6POS POLARIZING & LO	2	2	2	2	J9,J2
21	21		1215323-02	CONN, 2POS POLARIZING & LO	1	1	1	1	J1
22	22		1215324-00	CONN 15POS GOLD PLATED	1	1	1	1	J5
23	23		1215635-01	TRANSDUCER,MINATURE AUDIO FOR LA	1	1	1	1	BE1
24	24		1215699-00	HEADER 9POS STRAIGHT	1	1	1	1	J4
25	25		1300005-07	R NETWORK 15-4.7K 5.0 % 16PIN	1	1	1	1	F29
26	26		1300247-00	120.0 .25 W 5.0 % CC	1	1	1	1	R31
27	27		1300295-00	330.0 .25 W 5.0 % CC	8	8	8	8	R5,R14,R15,R28,R49,R54-R56
28	28		1300365-00	1.0 K .25 W 5.0 % CC	7	7	7	7	R13,R19,R29,R36,R40,R41,R53

REVISION HISTORY		BASIC PART NO: 5413747		DRW:	DAVID DROZD	DATE:	21-MAR-80	D I G I T A L			
ENGR	ECO NUMBER	REV	SECTION A OF B	CHK'D:	TONY SHEWTRASKI	DATE:	21-MAR-80	TITLE PARTS LIST			
---	INITIAL	D	SECTION, VARIATION INDEX	DES. ENG:	DON DODSON	DATE:	21-MAR-80	DOCUMENT NUMBER			
1JB	15413747-PN001	F	[A] 00,99,01,02	RESP. ENG.:	DON DODSON	DATE:	21-MAR-80	SIZE:	CODE:	NUMBER	REV
1JB	15413747-PN002	F	[B] 03	MFG. ENG.:	JOHN MCSHANE	DATE:	21-MAR-80	K	PL	5413747-0-DRP	M
1JB	15413747-PN003	H	[C]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT :	
1JB	15413747-PN004	J	[D]	D-UA-5413747-0-0				13747M,PLS		7	
1JB	15413747-PN005	K	[E]								
1JB	15413747-PN006	L	[F]								
1JB	15413747-PN007	M	[H]								
			[J]								
			[K]								
			[L]								
			[M]								
			[N]								

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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION				REFERENCE DESIGNATOR
					00	99	01	02	
29	29		1300417-00	2.20 K .25 W 5.0 % CC	1	1	1	1	R33
30	30		1300439-00	3.30 K .25 W 5.0 % CC	1	1	1	1	R50
31	31		1300479-00	10.0 K .25 W 5.0 % CC	7	7	7	7	R6=R8,R10,R11,R21,R22
32	32		1300488-00	12.0 K .25 W 5.0 % CC	1	1	1	1	R32
33	33		1301423-00	6.80 K .25 W 5.0 % CC	11	11	11	11	R1=R4,R16=R18,R24=R26,R30
34	34		1301890-00	560.0 .25 W 5.0 % CC	1	1	1	1	R48
35	35		1302388-00	2.0 K .25 W 5.0 % CC	1	1	1	1	R51
36	36		1302466-00	100.0 K .25 W 5.0 % CC	2	2	2	2	R23,R58
37	37		1302602-00	56.0 .25 W 5.0 % CC	1	1	1	1	R52
38	38		1312452-00	3.74 K .25 W 1.0 % RN55D-F10	1	1	1	1	R57
39	39		1315676-00	300.0 3.0 W 5.0 % WW 9	1	1	1	1	R34
40	40		1510706-00	XA 55 PNP 500MW SI 60 50 P	1	1	1	1	Q2
41	41		1514509-00	TIP 125 PNP 65W SI 60 500 BA	1	1	1	1	Q3
42	42		1515370-00	TIP146 PNP DARLINGTON-CONNECTED	1	1	1	1	Q1
43	43		1812396-03	XTAL 4.000 MHZ	1	1	1	1	Y1
44	44		1910322-00	DEC 1488L DRIVER,LINE,QUAD,EI	1	1	1	1	E32
45	45		1910406-00	75451 DRIVER,PERIPH,DUAL,	1	1	1	1	E6
46	46		1910741-00	7406 INVERTER GATE-HEX 1I	1	1	1	1	E7
47	47		1912108-00	339 VOLT CMPRTR,QUAD	1	1	1	1	E36
48	48		1912697-00	LS174 FF-D HEX W/CLEAR	1	1	1	1	E34
49	49		1912799-00	LS00 NAND-GATE-QUAD 2IN,P	1	1	1	1	E15
50	50		1912805-00	LS08 AND GATE-QUAD 2IN,PO	1	1	1	1	E25
51	51		1912807-00	LS10 NAND GATE-TRIPLE 3IN	1	1	1	1	E23
52	52		1912816-00	LS32 OR GATE-QUAD 2IN,POS	1	1	1	1	E20
53	53		1912824-00	LS74 FF-D DUAL,EDGE TRIGG	1	1	1	1	E24
54	54		1912842-00	LS138 DECODER-THREE INPUT,	1	1	1	1	F35
55	55		1912843-00	LS139 DECODER, 2 OF 4(DUAL)	1	1	1	1	F19
56	56		1912846-00	LS155 DECODER,2 OF 4(DUAL)	1	1	1	1	E33
57	57		1912863-00	LS273 FF-D OCTAL W/CLEAR	1	1	1	1	E18
58	58		1913130-00	DEC 1489A RECEIVER,LINE,QUAD,	1	1	1	1	E31
59	59		1913471-00	LS367 DRIVER,BUS,HEX,TRI-	3	3	3	3	F10,E28,E27
60	60		1913777-00	LS240 DRIVER,LINE,OCTAL,T	1	1	1	1	E3
61	61		1913950-00	LS156 DECODER,2 OF 4(DUAL)	1	1	1	1	E5
62	62		1914072-00	74159 DECODER-4 TO 16 UPD	1	1	1	1	E1
63	63		1914560-00	LS368 DRIVER,BUS,HEX,TRI-	3	3	3	3	E13,E16,E37
64	64		1915261-00	DEC 2841B DRIVER,1.5A QUAD	3	3	3	3	E11,E12,E17
65	65		1915636-00	*** THIS ITEM IS NOT USED ***	-	-	-	-	
66	66		2113107-01	P 8251A PUSART COMM, INTERFA	1	1	1	1	E4
67	67		2113954-00	DC 305 INTERFACE CHIP NT	1	1	1	1	E9
68	68		2114212-01	P 2114 RAM,1024X4,STATIC 18	2	2	2	2	E21,E26
69	69		2114963-00	UP,8-BIT NMOS GL	1	1	1	1	E22
70	70	SEE NOTE 1	23021E4-00	E4-01,E4-02,E4-03	1	-	-	-	E14
71	71		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	10	10	10	10	W1,W3,W6,W9,W11,W12,W18,W19,W95, CONT W96
72	72		1215006-07	SKT,IC 28PIN DIP TIN PLATEE	1	1	1	1	XE4
73	73	SEE NOTE 2	23030E4-00	E4-01,E4-03	-	-	1	-	E14
74	74		9105740-55	WIRE(WRAP)30AWG UL1423	A/R	A/R	A/R	A/R	
75	75	SEE NOTE 3	23034E4-00	E4-01,E4-02,E4-03	-	-	-	1	E14

ID	IGIT	AIL	TITLE	SECTION A OF B	SIZE	CODE	DOCUMENT NUMBER	REV
			54-13747 BOARD		K	PL	5413747-0-DBP	M

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION				REFERENCE DESIGNATOR	
				00	99	01	02		
76	76	SEE NOTE 4	23033E4-00	*** THIS ITEM IS NOT USED ***	-	-	-	-	
77	77		1916002-00	DRIVER, MOTOR CONT	2	2	2	2	04,05
78	78		9006023-01	SCREW,PAN,PHIL 6-32X 7/16 SS	2	2	2	2	
79	79		9008185-00	NUT,KFP , 6-32X1/4 AF	2	2	2	2	
80	80		9008268-00	COMPOUND, THERMAL JOINT	A/R	A/R	A/R	A/R	
81	81		7424745-00	HEAT SINK, H DRIVERS	1	1	1	1	

- 82 NOTE: 1. PT#23021E4-00 CAN HAVE A 01 OR AN 03 VARIATION.
- 83 NOTE: 2. PT#23030E4-00 CAN HAVE A 00 THRU 03 VARIATION.
- 84 NOTE: 3. PT#23034E4-00 CAN HAVE A 00 THRU 03 VARIATION.
- 85 NOTE: 4. PT#23033E4-00 CAN HAVE A 00 THRU 03 VARIATION.

DIGITAL				TITLE	54-13747 BOARD	SECTION A OF B	SIZE	CODE	DOCUMENT NUMBER	REV
							K	PL	5413747-0-DBP	M

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	REF. VARIATION	REFERENCE DESIGNATOR
1	1	D-DBP-5013746-0-0	5013746-00	DRILL&ETCH BOARD	1		
2	2		1001610-00	.01 MFD 50V +80-20% 25U CER	1		C32
3	3		1005636-00	22 MFD 6V 10% S.TANT	1		C43
4	4		1012084-01	8 MFD 25V +75-10% AL EL	5		C45,C47-C49,C50
5	5		1012219-00	47 MFD 30V +75-10% AL EL	1		C59
6	6		1012784-00	.047 MFD 50V +80-20% CER	21		C1,C8,C11,C12,C14,C15,C21-C23, C25,C26,C29,C30,C31,C35,C44, CONT C51-C53,C56,C57
7	7		1013466-12	2200.0 MMF 50V 10% X7R CER	1		C42
8	8		1013466-18	330.0 MMF 50V 5% CER	1		C37
9	9		1013466-31	15.0 MMF 50V 5% CER	1		C41
10	10		1101938-00	1N 4370A VZ= 2.4 5% .40W	1		D18
11	11		1105275-00	D 672 TR= 15NS PIV= 60V SI	7		D17,D19-D24
12	12		1105796-00	1N 4004 PIV=400 I= 1A D041 SP	16		D1-D16
13	13		1110854-00	1N 5353B VZ= 16.0V 5% .40W M	1		D25
14	14		1209941-02	HEADER 100 40POS RT ANGLE	2		J6,J8
15	15		1209941-09	HEADER 26POS RT ANGLE RCPT	1		J7
16	16		1211164-04	SN,DIP 1P 1A 8POS	1		E30
17	17		1215921-00	CONN, 4PIN WAFER,RIGHT ANG	1		J3
18	18		1215006-06	SKT,IC 24PIN DIP TIN PLATEE	1		XE14
19	19		1215006-08	SKT,IC 40PIN DIP TIN PLATEE	2		XE22,XE9
20	20		1215323-00	CONN, 6POS POLARIZING & LO	2		J9,J2
21	21		1215323-02	CONN, 2POS POLARIZING & LO	1		J1
22	22		1215324-00	CONN 15POS GOLD PLATED	1		J5
23	23		1215635-01	TRANSDUCER,MINATURE AUDIO FOR 1A	1		BE1
24	24		1215699-00	HEADER 9POS STRAIGHT	1		J4
25	25		1300005-07	R NETWORK 15=4.7K 5.0% 16PIN	1		E29
26	26		1300247-00	120.0 .25 W 5.0% CC	1		R31
27	27		1300295-00	330.0 .25 W 5.0% CC	8		R5,R14,R15,R28,R49,R54-R56
28	28		1300365-00	1.0 K .25 W 5.0% CC	7		R13,R19,R29,R30,R40,R41,R53

REVISION HISTORY				BASIC PART NO: 5413747			
ENG	ECO NUMBER	REV	SECTION B OF B	DRN:	DAVID DROZD	DATE:	21-MAR-80
	INITIAL	D	SECTION VARIATION INDEX	CHK'D:	TONY SHEWTRASKI	DATE:	21-MAR-80
JJB	15413747-PN001	E	[A] 00,99,01,02	DES.ENG:	DON DODSON	DATE:	21-MAR-80
JJB	15413747-PN002	F	[B] 03	RESP.ENG.:	DON DODSON	DATE:	21-MAR-80
JJB	15413747-PN003	H	[C]	MFG.ENG.:	JOHN MCSHANE	DATE:	21-MAR-80
JJB	15413747-PN004	J	[D]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:	
JJB	15413747-PN005	K	[E]	D-DBP-5413747-0-0		FILE NAME:	13747M.PLS
JJB	15413747-PN006	L	[F]			EDIT #	7
JJB	15413747-PN007	M	[H]				
			[J]				
			[K]				
			[L]				
			[M]				
			[N]				

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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
					03		
29	29		1300417-00	2.20 K .25 W 5.0 % CC	1		R33
30	30		1300439-00	3.30 K .25 W 5.0 % CC	1		R50
31	31		1300479-00	10.0 K .25 W 5.0 % CC	7		R6=R8,R10,R11,R21,R22
32	32		1300488-00	12.0 K .25 W 5.0 % CC	1		R32
33	33		1301423-00	6.80 K .25 W 5.0 % CC	11		R1=R4,R16=R18,R24=R26,R30
34	34		1301890-00	560.0 .25 W 5.0 % CC	1		R48
35	35		1302388-00	2.0 K .25 W 5.0 % CC	1		R51
36	36		1302466-00	100.0 K .25 W 5.0 % CC	2		R23,R58
37	37		1302002-00	56.0 .25 W 5.0 % CC	1		R52
38	38		1312452-00	3.74 K .25 W 1.0 % RN55D-F10	1		R57
39	39		1315676-00	300.0 3.0 W 5.0 % WW 9	1		R34
40	40		1510706-00	XA 55 PNP 500MW SI 60 50 P	1		Q2
41	41		1514509-00	TIP 125 PNP 65W SI 60 500 BA	1		Q3
42	42		1515370-00	TIP146 PNP DARLINGTON-CONNECTED	1		Q1
43	43		1812396-03	XTAL 4.000 MHZ	1		Y1
44	44		1910322-00	DEC 1488L DRIVER,LINE,QUAD,EI	1		E32
45	45		1910406-00	75451 DRIVER,PERIPH,DUAL,	1		E6
46	46		1910741-00	7406 INVERTER GATE-HEX 11	1		E7
47	47		1912108-00	339 VOLT CMPRTR,QUAD	1		E36
48	48		1912697-00	LS174 FF-D HEX W/CLEAR	1		E34
49	49		1912799-00	LS00 NAND-GATE-QUAD 2IN,P	1		E15
50	50		1912805-00	LS08 AND GATE-QUAD 2IN,PO	1		E25
51	51		1912807-00	LS10 NAND GATE-TRIPLE 3IN	1		E23
52	52		1912816-00	LS32 OR GATE-QUAD 2IN,POS	1		E20
53	53		1912824-00	LS74 FF-D DUAL,EDGE TRIGG	1		E24
54	54		1912842-00	LS138 DECODER-THREE INPUT,	1		E35
55	55		1912843-00	LS139 DECODER, 2 OF 4(DUAL)	1		E19
56	56		1912846-00	LS155 DECODER,2 OF 4(DUAL)	1		E33
57	57		1912863-00	LS273 FF-D OCTAL W/CLEAR	1		E18
58	58		1913130-00	DEC 1489A RECEIVER,LINE,QUAD,	1		F31
59	59		1913471-00	LS367 DRIVER,BUS,HEX,TRI-	3		E10,E28,E27
60	60		1913777-00	LS240 DRIVER,LINE,OCTAL,T	1		E3
61	61		1913950-00	LS156 DECODER,2 OF 4(DUAL)	1		E5
62	62		1914072-00	74159 DECODER-4 TO 16 OPR	1		E1
63	63		1914560-00	LS368 DRIVER,BUS,HEX,TRI-	3		E13,E16,E37
64	64		1915261-00	DEC 2841B DRIVER,1.5A QUAD	3		E11,E12,E17
65	65		1915636-00	*** THIS ITEM IS NOT USED ***	-		
66	66		2113107-01	P 8251A PUSART COMM. INTERFA	1		E4
67	67		2113954-00	DC 305 INTERFACE CHIP NT	1		E9
68	68		2114212-01	P 2114 RAM,1024X4,STATIC 18	2		E21,E26
69	69		2114963-00	UP,8-BIT NMOS GL	1		E22
70	70	SEE NOTE 1	2302164-00	*** THIS ITEM IS NOT USED ***	-		
71	71		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	10		W1,W3,W6,W9,W11,W12,W18,W19,W95,
						CONT	W96
72	72		1215006-07	SKT,IC 28PIN DIP TIN PLATEK	1		XE4
73	73	SEE NOTE 2	23030F4-00	*** THIS ITEM IS NOT USED ***	-		
74	74		9105740-55	WIRE(WRAP)30AWG UL1423 A/R			
75	75	SEE NOTE 3	23034E4-00	*** THIS ITEM IS NOT USED ***	-		

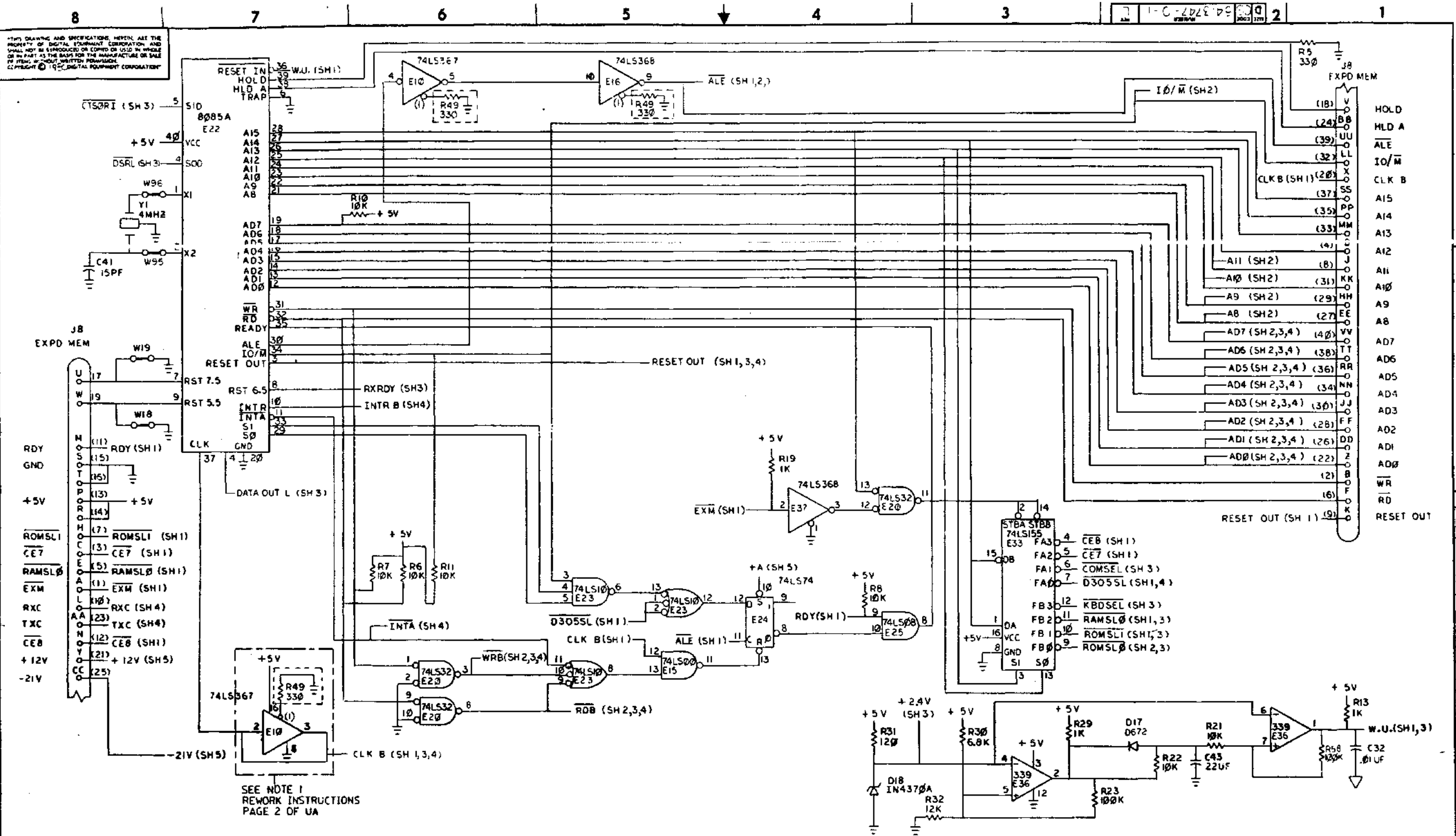
D	I	G	I	T	A	TITLE	SECTION	SIZE	CODE	DOCUMENT NUMBER	REV
						54-13747 BOARD	B OF B	K	PL	5413747-0-DBP	M

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 03	REFERENCE DESIGNATOR
76	76	SEE NOTE 4	23033E4-00	E4-01,E4-02,E4-03	1	E14
77	77		1916002-00	DRIVER, MOTOR CONT	RO 2	04,05
78	78		9006023-01	SCREW,PAN,PHIL 6-32X 7/16 SS	2	
79	79		9008185-00	NUT,KEP , 6-32X1/4 AF	2	
80	80		9008268-00	COMPOUND, THERMAL JOINT	A/R	
81	81		7424745-00	HEAT SINK, W DRIVERS	1	

- 82 NOTE: 1. PT#23021E4-00 CAN HAVE A 01 OR AN 03 VARIATION.
- 83 NOTE: 2. PT#23030E4-00 CAN HAVE A 00 THRU 03 VARIATION.
- 84 NOTE: 3. PT#23034E4-00 CAN HAVE A 00 THRU 03 VARIATION.
- 85 NOTE: 4. PT#23033E4-00 CAN HAVE A 00 THRU 03 VARIATION.

D	I	G	I	T	A	L	TITLE	SECTION B OF B	SIZE	CODE	DOCUMENT NUMBER	REV
							54-13747 BOARD		K	PL	5413747-0-DBP	M

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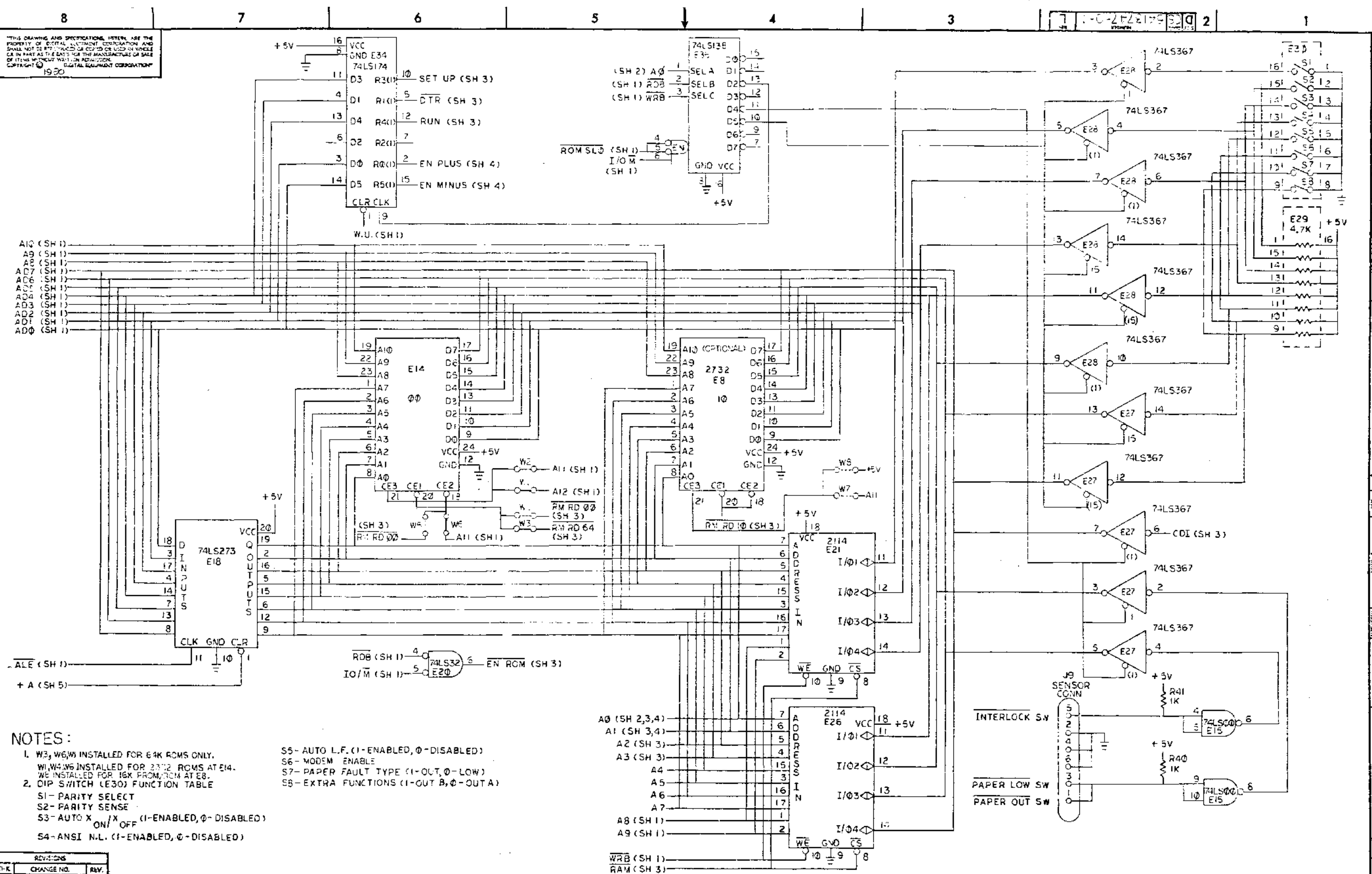


SEE NOTE 1
REWORK INSTRUCTIONS
PAGE 2 OF UA

REV.	DATE	BY	CHKD.	DESCRIPTION
1	11/11/70	J. BITTO	J. BITTO	INITIAL DESIGN
2	11/11/70	J. BITTO	J. BITTO	REVISED FOR MANUFACTURE
3	11/11/70	J. BITTO	J. BITTO	REVISED FOR MANUFACTURE
4	11/11/70	J. BITTO	J. BITTO	REVISED FOR MANUFACTURE
5	11/11/70	J. BITTO	J. BITTO	REVISED FOR MANUFACTURE
6	11/11/70	J. BITTO	J. BITTO	REVISED FOR MANUFACTURE
7	11/11/70	J. BITTO	J. BITTO	REVISED FOR MANUFACTURE
8	11/11/70	J. BITTO	J. BITTO	REVISED FOR MANUFACTURE

DIRTY DESIGN? <input type="checkbox"/>	5.10K	FIRST USED ON	LA34
CHKD. BY	J. BITTO	TITLE	LA34
ENG. BY	J. BITTO	CONTROL BOARD	
PROJ. ENG.	J. BITTO		
PROG. BY	J. BITTO		
NEXT HIGHER ASSY.			
B-DD-5413747-0	SIZE CODE	NUMBER	REV
SCALE	D	CS	5413747-0-1
SHEET 1	OF 5	DIST	

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NOTES:

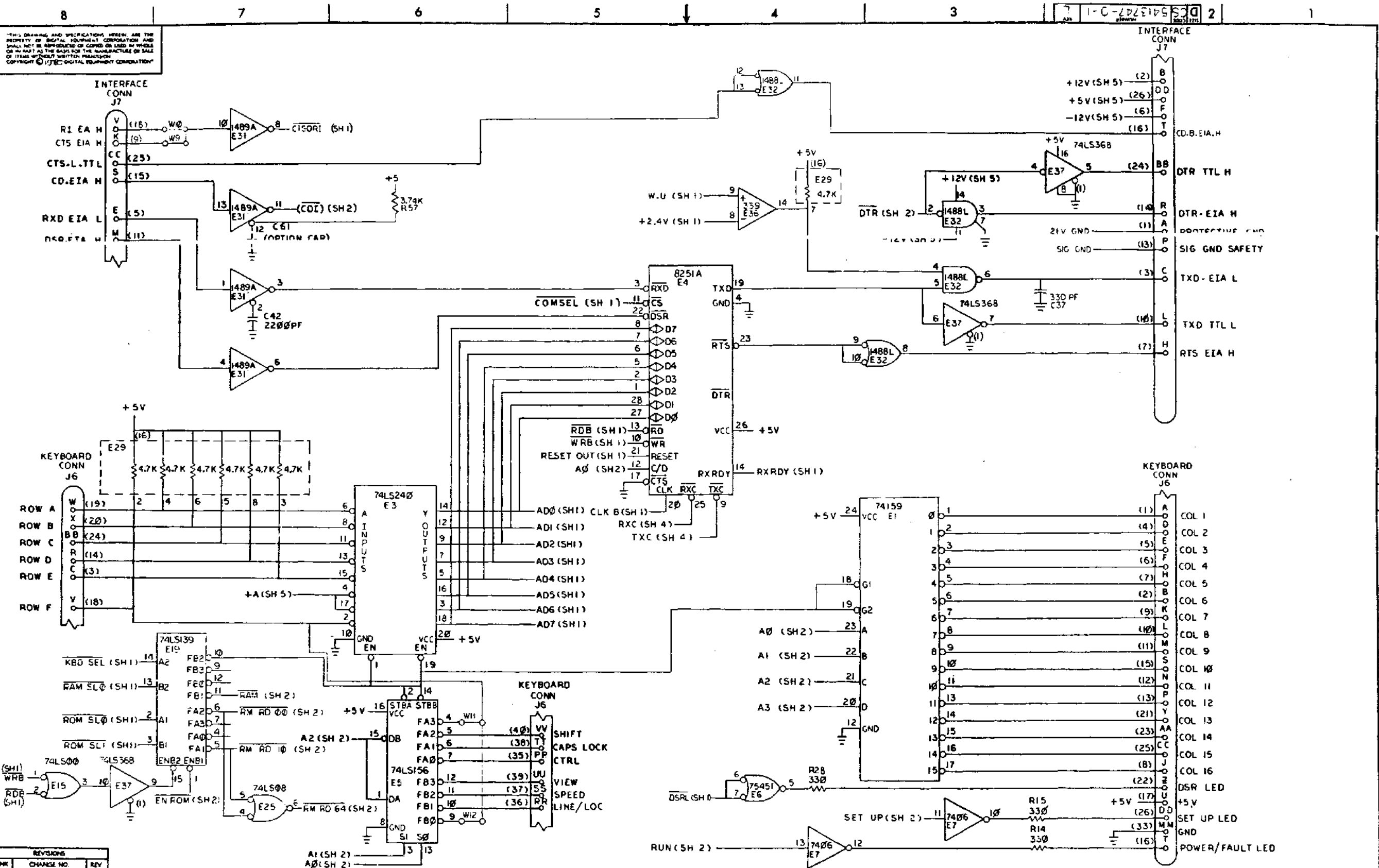
- 1. W3, W6, W7 INSTALLED FOR 64K ROMS ONLY.
- W1, W4, W5 INSTALLED FOR 2732 ROMS AT E14.
- W2 INSTALLED FOR 16K PROM, ROM AT E8.
- 2. DIP SWITCH (E30) FUNCTION TABLE
- S1 - PARITY SELECT
- S2 - PARITY SENSE
- S3 - AUTO X ON/OFF (I-ENABLED, 0-DISABLED)
- S4 - ANSI N.L. (I-ENABLED, 0-DISABLED)

- S5 - AUTO L.F. (I-ENABLED, 0-DISABLED)
- S6 - MODEM ENABLE
- S7 - PAPER FAULT TYPE (I-OUT, 0-LOW)
- S8 - EXTRA FUNCTIONS (I-OUT B, 0-OUT A)

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	LA34 CONTROL BOARD	SIZE CODE	D CS	NUMBER	5413747-0-1	REV.	L
SCALE	1/8" = 1"	SHEET	2 OF 5	QTY.			

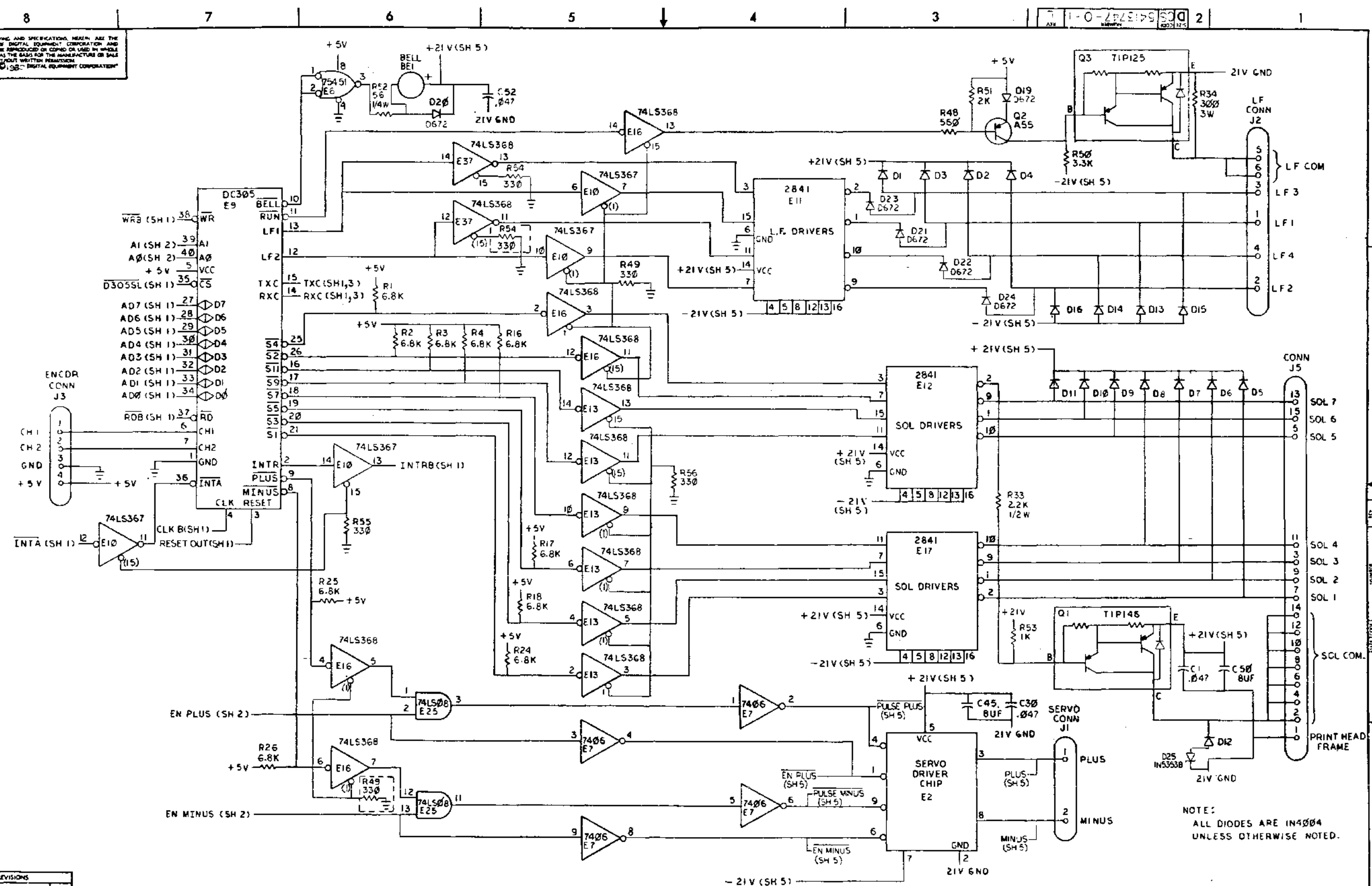
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REVISIONS		
CHK	CHANGE NO.	REV

TITLE	LA34 CONTROL BOARD	SIZE CODE	DCS	NUMBER	5413747-0-1	REV.	L
SCALE		SHEET	3	OF	5	DIST.	

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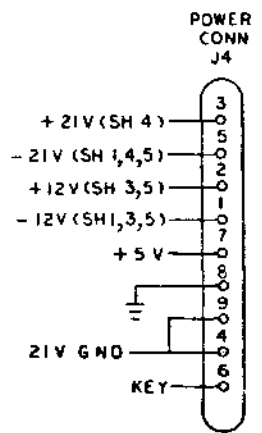
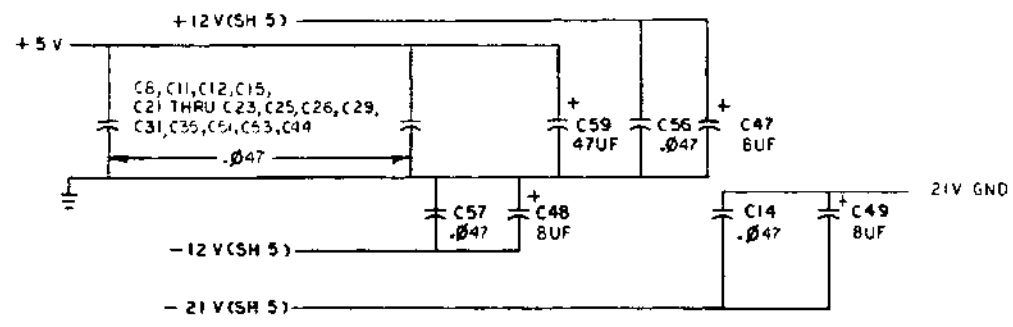
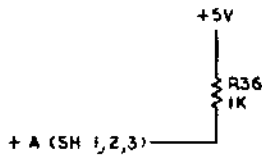
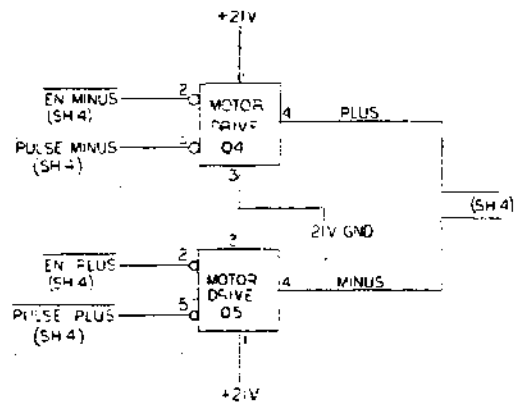


REVISIONS		
CHK	CHANGE NO	REV.

TITLE	LA34 CONTROL BOARD	SIZE/CODE	DICS 5413747-0-1	NUMBER		REV	
SCALE		SHEET	4 OF 5	DIST.			

DICS 5413747-0-1

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NOTE:
1. 04 AND 05 MAY BE USED IN PLACE OF E2

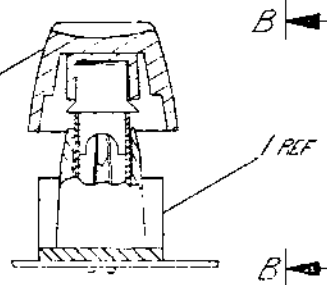
REVISIONS		
CHK	CHANGE NO	REV

TITLE	LA34 CONTROL BOARD	SIZE CODE	DCS	NUMBER	5413747-0-1	REV.	1
SCALE	1:1	SHEET	5 OF 5	DIST.			

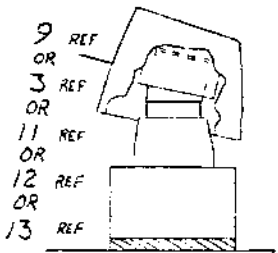
DCS 5413747-0-1

THIS DRAWING AND SPECIFICATIONS, WHEN USED IN CONNECTION WITH THE DRAWING OF THE MODEL SHOWN, SHALL BE TAKEN TO CONSTITUTE THE COMPLETE SET OF REQUIREMENTS FOR THE MANUFACTURE OF THE EQUIPMENT DESCRIBED HEREIN. IT IS THE POLICY OF THE COMPANY TO MAKE SUCH DRAWINGS AND SPECIFICATIONS AVAILABLE TO THE TRADE AT THE OPTION OF THE BUYER. COMPANY © 1973, ENCLAVE EQUIPMENT CORPORATION

- 12 OR
- 13 OR
- 9
- OR
- 3
- 34
- 11



SECTION A-A

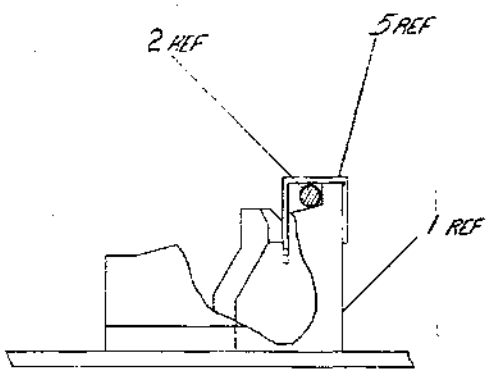
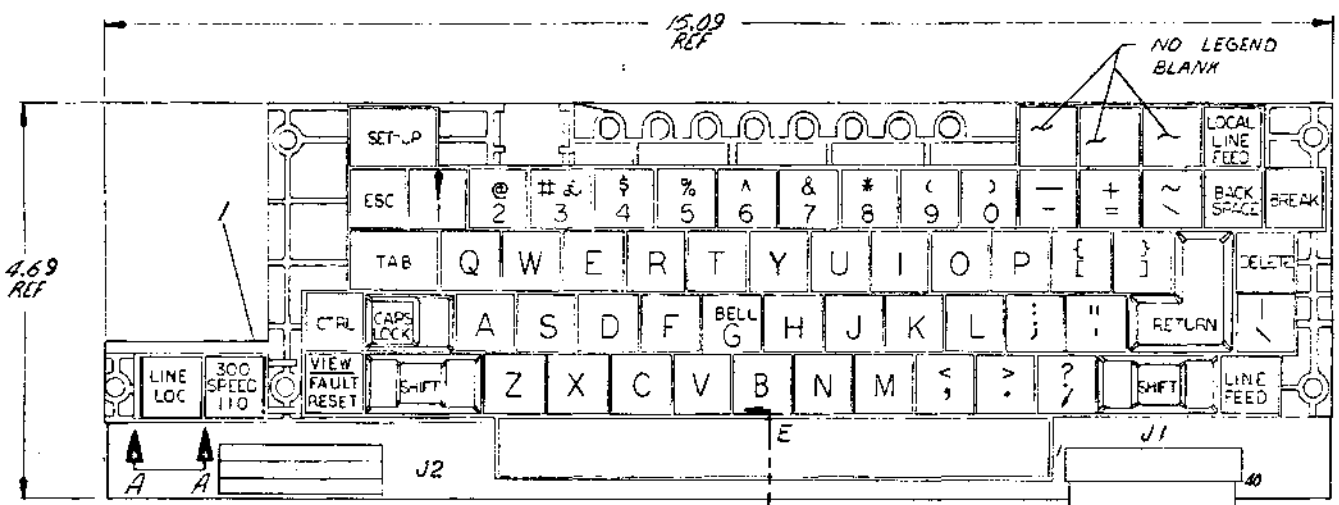


VIEW B-B

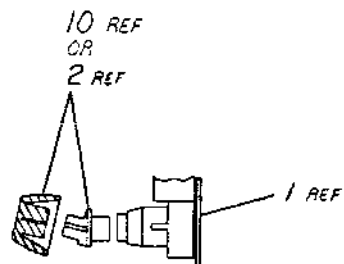
LEGEND

VARIATION	SHEET NO
701554-00 AND 01	SHEET NO. 1
701554-02	SHEET NO. 2
701554-03	SHEET NO. 3

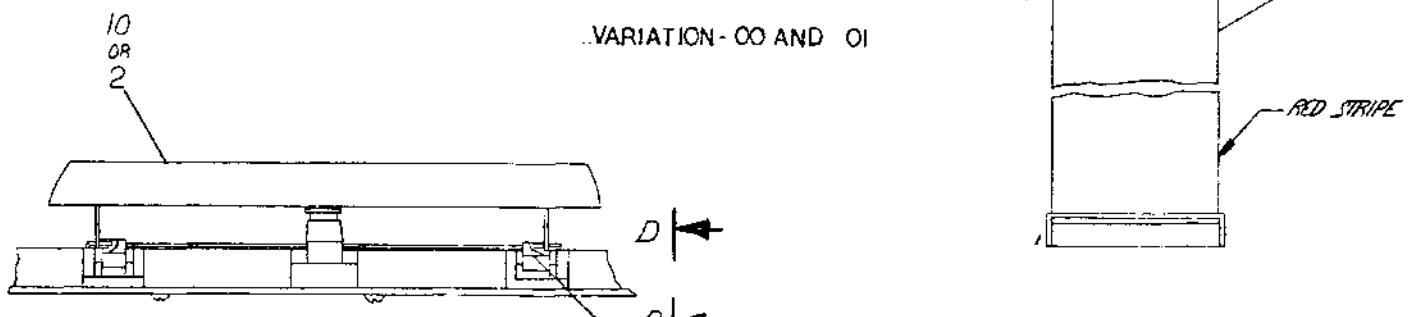
- NOTES:
- FOR 701554-02 VARIATION CONFIGURATION SEE SHEET 2.
 - DRAWING AS SHOWN REPRESENTS A KEYBOARD KEY CAP ASSY. 701554-00 AND 701554-01 WHICH CONTAIN THE BASIC LET MAIN ARRAY 1214333-95 CHARCOAL OR SPECIAL LET 214333-48 GREY.
 - FOR INDIVIDUAL FIELD SERVICE / CUSTOMER SPARES SHIPMENTS USE PACKAGING INSTRUCTION A-SP-3700456-0-0 VARIATION -10, FOR BULK INTERPLANT SHIPMENTS USE PACKAGING INSTRUCTION A-SP-3700439-0-0 VARIATION -00.



VIEW D-D
SCALE: NONE



SECTION E-E
(PARTIAL SECTION THRU ITEM *1 & 2 ONLY)



VIEW C-C

SEE K-PL-7015514-0-DBP

REV	DATE	DESCRIPTION	BY	CHECKED
1		CAP KEY SET (CHARCOAL)		
1		SPACE BAR ASSY (GREY)		
1		CAPS KEY SET (GREY)		
REF		TEST SPECS		
REF		ENGINEERING SPECS		
1	1	KEYBOARD CABLE ASSY		
2	2	CLIP, EQUALIZER		
0.8	60	ADAPTER KEY CAP		
1	1	CAP KEY SET (CHARCOAL)		
1	1	SPACE BAR ASSY (CHAR)		
1	1	KEYBOARD MODULE ASSY		

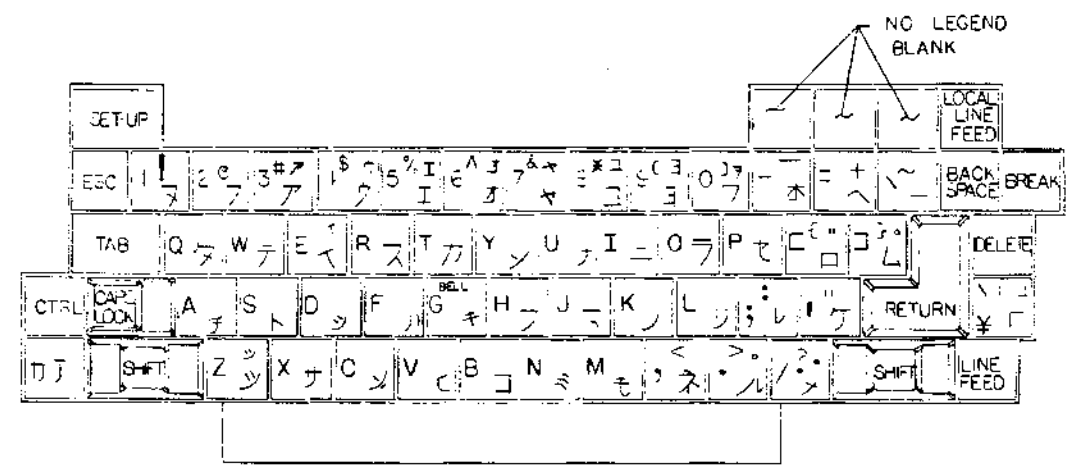
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		TOLERANCES UNLESS OTHERWISE SPECIFIED	
ANGLE	CLASS OF ACCURACY	RANGE	TOLERANCE
30° - 120°	F	0 - .125	±.005
> 120°	F	.125 - .250	±.007
ALL OTHERS	F	.250 - 1.000	±.010
ALL OTHERS	F	1.000 - 2.000	±.015
ALL OTHERS	F	2.000 - 3.000	±.020
ALL OTHERS	F	3.000 - 6.000	±.030
ALL OTHERS	F	6.000 - 18.000	±.050
ALL OTHERS	F	18.000 - 30.000	±.070
ALL OTHERS	F	30.000 - 48.000	±.100
ALL OTHERS	F	48.000 - 72.000	±.150
ALL OTHERS	F	72.000 - 120.000	±.200

QUANTITY & VARIATION	DRAWN	CHECKED	APPROVED	FIRST USED ON
3				LH34 digital

MATERIAL	SCALE	FINISH	SIZE CODE	NUMBER	REV
SEE PARTS LIST	NONE	NONE	D	7015514-0-0	h
DO NOT SCALE DWG		NEXT HIGHER ASSY.		SHEET 7 OF 3	

REV	DATE	DESCRIPTION	BY	CHECKED
1		CHANGE NO. LA34-PNO23 A		
2		CHANGE NO. LA34-PNO33 B		
3		CHANGE NO. LA34-PNO55 C		
4		CHANGE NO. LA34-PNO110 D		
5		CHANGE NO. LA34-PNO111 E		
6		CHANGE NO. LA34-PNO112 F		
7		CHANGE NO. LA34-PNO113 G		
8		CHANGE NO. LA34-PNO114 H		

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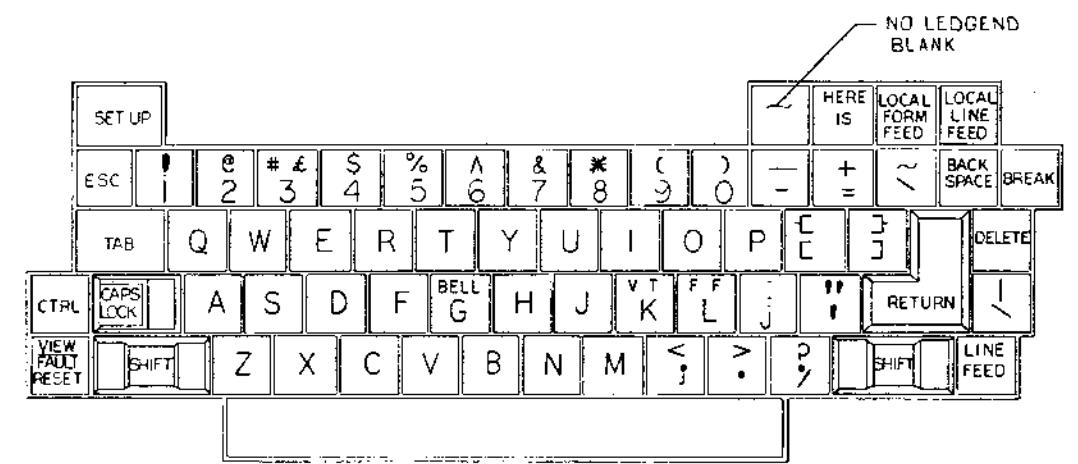
VARIATION 02

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	KEYBOARD/KEYCAP ASSY.	SIZE/COOB	D AD	NUMBER	701534-0-0	REV.	H
SCALE	NONE	SHEET	2	OF	3	DIST.	

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NOTES:
 1 DRAWING AS SHOWN REPRESENTS A KEYBOARD KEYCAP ASSY. 7015514-03 AND 7015514-04 WHICH CONTAIN THE BASIC SET MAIN ARRAY 1219333-JS CHARCOAL OR SPECIAL SET 1219333-JT GRAY.



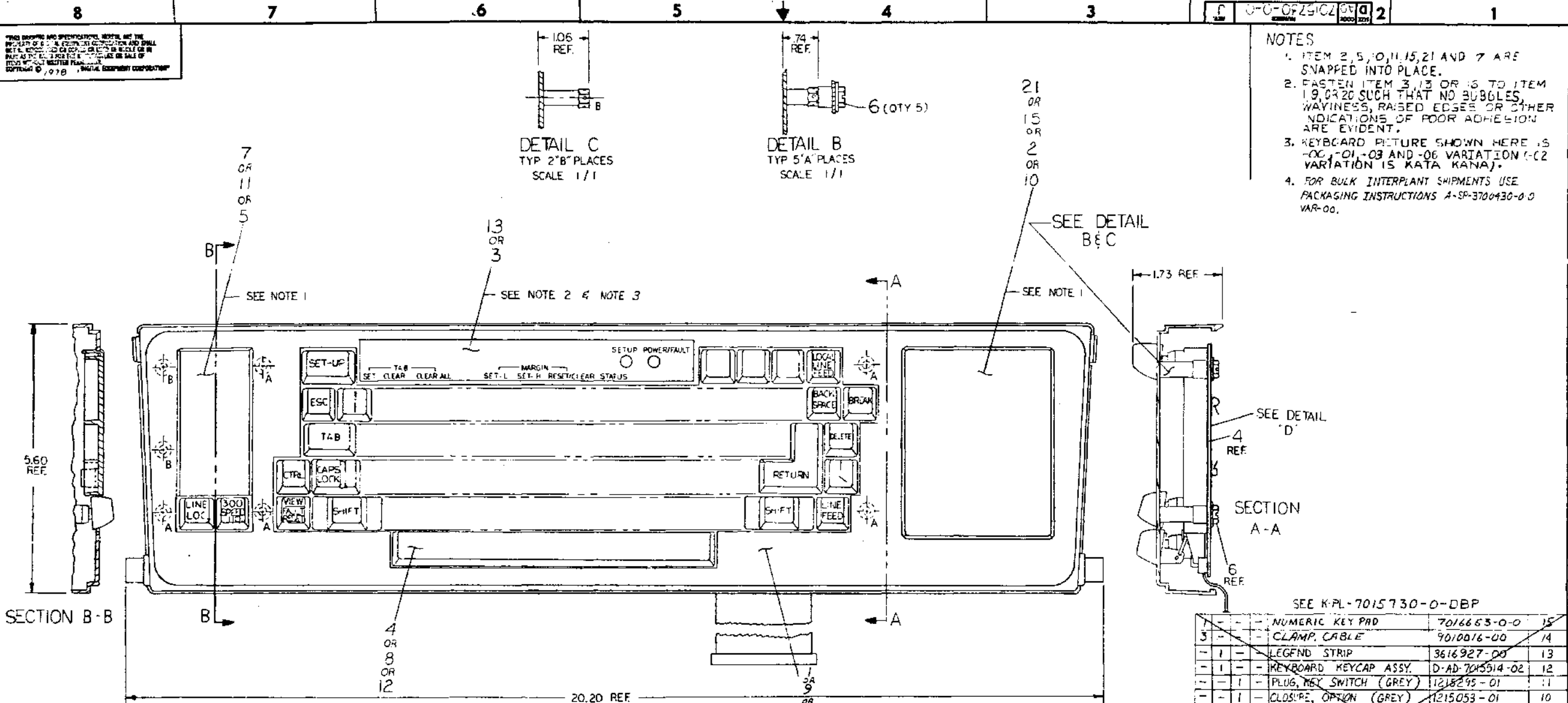
VARIATION -03 AND 04

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	KEYBOARD/KEYCAP ASSY.	SIZE CODE	D AD	NUMBER	7015514-0-0	REV.	H
SCALE	NONE	SHEET	3	OF	3	DIST.	

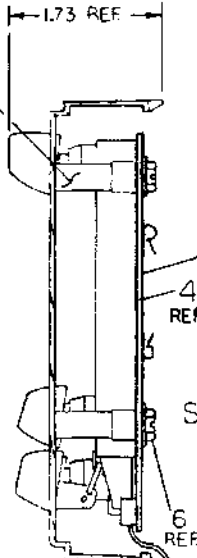
7015514-0-0
 D AD
 H

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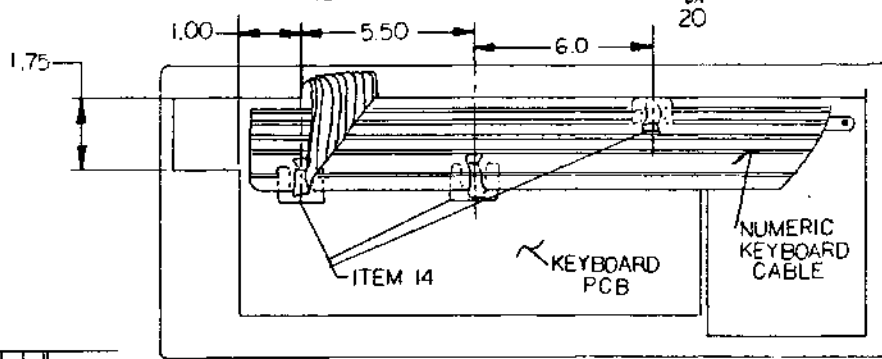
- NOTES**
- ITEM 2, 5, 10, 11, 15, 21 AND 7 ARE SNAPPED INTO PLACE.
 - FASTEN ITEM 3, 13 OR 15 TO ITEM 1, 9, OR 20 SUCH THAT NO BUBBLES, WAININESS, RAISED EDGES OR OTHER INDICATIONS OF POOR ADHESION ARE EVIDENT.
 - KEYBOARD PICTURE SHOWN HERE IS -00, -01, -03 AND -06 VARIATION (-02 VARIATION IS KATA KANA).
 - FOR BULK INTERPLANT SHIPMENTS USE PACKAGING INSTRUCTIONS A-SP-3700430-0-0 VAR-00.

SECTION B-B



SEE K-PL-7015730-0-DBP

QTY	DESCRIPTION	DWG. PART NO.	ITEM NO.
1	NUMERIC KEY PAD	7016653-0-0	15
3	CLAMP, CABLE	9010016-00	14
1	LEGEND STRIP	3616927-00	13
1	KEYBOARD KEYCAP ASSY.	D-AD-7015514-02	12
1	PLUG, KEY SWITCH (GREY)	1215295-01	11
1	CLOSURE, OPTION (GREY)	1215053-01	10
1	BEZEL, KEYBOARD (GREY)	1215297-01	9
1	KEYBOARD ASSY. (GREY)	D-AD-7015514-01	8
REF	INSPECTION PROCEDURE	A-II-7015730-0-1	7
5	SCR, SLOTTED HEX WASH HD 632, 5/16"	9010097	6
1	PLUG, KEY SWITCH	1215295-00	5
1	KEYBOARD ASSY.	D-AD-7015514-0-0	4
1	LEGEND STRIP	3615450-00	3
1	CLOSURE, OPTION	1215053-00	2
1	BEZEL, KEYBOARD	1215297-00	1



REV	DATE	BY	CHKD	DESCRIPTION
1	10/14/73	PNOCM	A	INITIAL DESIGN
2	10/14/73	HARVEY	B	REVISED FOR MANUFACTURING
3	10/14/73	LA34	B	REVISED FOR MANUFACTURING
4	10/14/73	J. DESUK	B	REVISED FOR MANUFACTURING
5	10/14/73	P. E. NELSON	B	REVISED FOR MANUFACTURING
6	10/14/73	J. BITTO	B	REVISED FOR MANUFACTURING
7	10/14/73	J. BITTO	B	REVISED FOR MANUFACTURING
8	10/14/73	J. BITTO	B	REVISED FOR MANUFACTURING

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

QUANTITY & VARIATION	DRN	FIRST USED ON
7015730-00	LA34	LA34
7015730-02		
7015730-01		
7015730-00		

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL SEE PARTS LIST

FINISH

SCALE: NONE

SHEET 1 OF 2

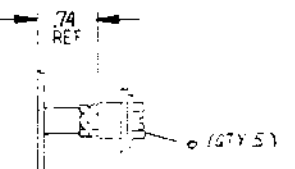
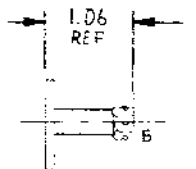
SIZE: D

CODE: AD

NUMBER: 7015730-0-0

REV: J

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DETAIL C
TYP 2 'B' PLACES
SCALE 1/1

DETAIL B
TYP 5 'A' PLACES
SCALE 1/1

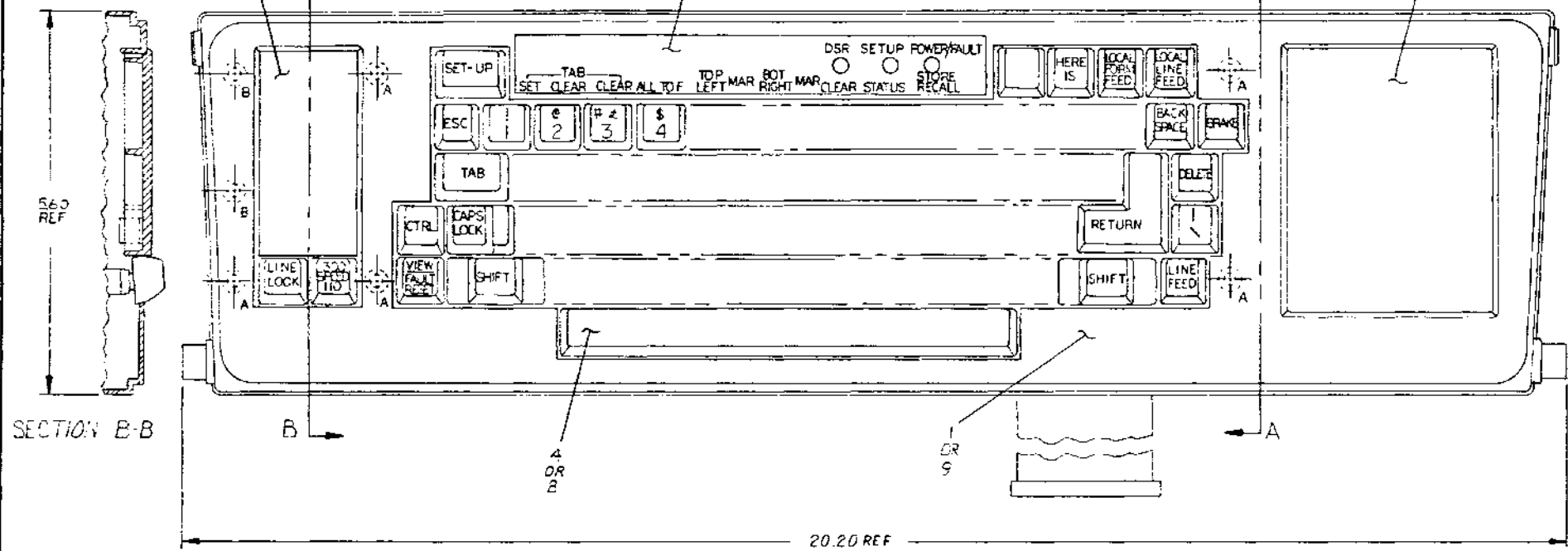
2 OR 10 OR 15

SEE NOTE 1

SEE NOTE 2

SEE DETAIL B AND C

SEE NOTE 1



SECTION B-B

SECTION A-A

DRAWING AS SHOWN REPRESENTS
7015 730-04, 05 AND 07 VARIATIONS

THIRD ANGLE PROJECTION	DESCRIPTION	DWG. PART NO.	ITEM NO.
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS		
	ANGLES 40° 30'	CLASS. ACCURACY	MOL. TOL. DISP. RANGE INCHES
QUANTITY & VARIATION	SURFACE QUALITY	CHECK DMS	OVER 17.0 TO 40.0
	FINISH	PREPARED	OVER 40.0 TO 80.0
DRN. JOSEPH	FIRST USED ON	DIGITAL	
CHK'D HEALY	LA34	TITLE	
ENGL. HAZEN		KEYBOARD BEZEL ASSY.	
PROJ. ENG. J. J. J.		NUMBER	
PROD. ERDMAN		D-AD-7015724-0-C	
NEXT HIGHER ASSY.		SIZE	CODE
		D	AD
MATERIAL		SCALE	NONE
		SHEET	2 OF 2
		DIST.	

REV.	
CHG.	
NO.	

DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS																				
				1	2	3	4	5	6	7	8	9	10	11	12	13								
D-UA-5414387-Ø-Ø	1		ROM EXPANDER	A	A																			
K-PL-5414387-Ø-DBP			ROM EXPANDER	A	B																			
D-CS-5414387-Ø-1	2		ROM EXPANDER	A	B																			
K-PC-5414387-Ø-DBC			PC DESIGN DATA BASE	A	A																			
		5Ø14387	ETCHED BOARD	A	A																			
D-MD-5Ø14386-Ø-Ø	4		DRILL AND ETCH DRAWING	A	A																			
D-EC-5Ø14386-Ø-Ø	2		ETCH CUT DRAWING	A	A																			

NOTES:

REVISIONS		DATE	CHG NO.	ORIG.	REV.
		10/79		A	
		8 80	PN002	B	

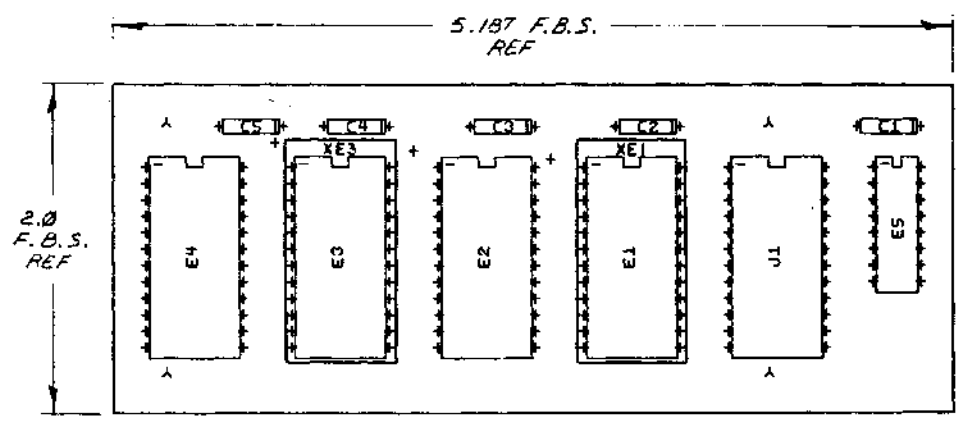
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USED ON OPTION/MODEL		DRN	TITLE	
LA34-JA		<i>William Skinner</i> 10-9-79	ROM EXPANDER	
		CHK'D <i>Francis Rolan</i> 10 JAN 80	SIZE	CODE
		ENG. <i>A. Jones</i> 10 JAN 80	B	DD
		PROD. <i>John Helt</i> 10 JAN 80	NUMBER 5414387-Ø	
			REV. B	

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COMPONENT SIDE VIEW



NOTES:

STEP E → Y AXIS 2.125 STEP 3 TIMES
 REPEAT → X AXIS 5.250 STEP 1 TIMES

CHANGE NO. REV	
2.2 5414387-0-00 A	
ORIGINATOR	

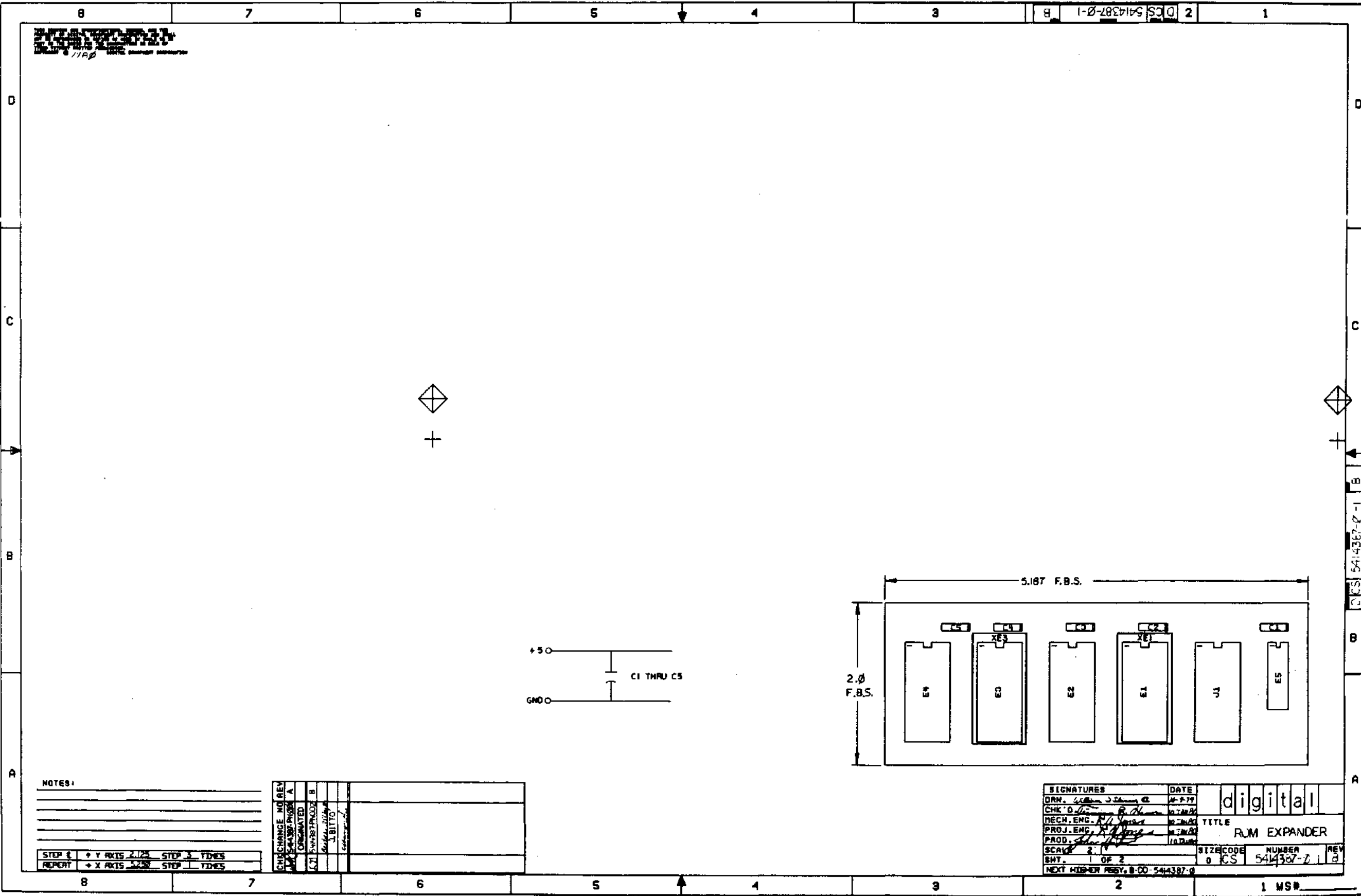
ETCH REV. A P 2

SIGNATURES		DATE	digital
DRN. <i>[Signature]</i>		7 Jan 83	
CHK'D. <i>[Signature]</i>		16 MAR 83	
MECH. ENG. <i>[Signature]</i>		10 JAN 83	
PROJ. ENG. <i>[Signature]</i>		10 JAN 83	
PROD. <i>[Signature]</i>		10 JAN 83	
SCALE 2/1			
SHT. 1 OF 1			
NEXT HIGHER REVISION: 6-00-5414387-0			
SIZE CODE	NUMBER	REV	
D UA	5414387-0-0	A	

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
1		1215006-06	SOCKET 24PIN IC LOW PROFILE	3	J1,XE1,XE3
2		1001610-00	.01 MFD 50V +80-20% 25U CER	5	C1,C2,C3,C4,C5
3		1912843-00	LS139 DECODER, 2 OF 4(DUAL	1	E5
4		23233E2-00	E2-04	1	E1
5		23234E2-00	E2-04	1	E3
6	D-MD-5014386-0-0		ROM EXPANDER	1	

REVISION HISTORY			BASIC PART NO: 5414387			D I G I T A L		
ENG	ECO NUMBER	REV	SECTION A OF A	DRN:	DATE:	TITLE		
	INITIAL	A	SECTION VARIATION INDEX	F.R.LLANOS	11-OCT-79	PARTS LIST		
JB	5414387-PN002	B	(A) 00	L.GILBERT	11-OCT-79	ROM EXPANDER		
			(B)	R. A. JONES	11-OCT-79	DOCUMENT NUMBER		
			(C)	R. A. JONES	11-OCT-79	SIZE: CODE: NUMBER		
			(D)	R. A. JONES	11-OCT-79	K PL 5414387-0-0		
			(E)	J.HOPKINS		REV		
			(F)	J.HOPKINS		B		
			(G)			ASSEMBLY NUMBER: TOP DOCUMENT NUMBER: FILE NAME: EDIT #		
			(H)			D-UA-5414387-0-0 B-DD-5414387-0-0 14387B,PLS 7		
			(I)					
			(J)					
			(K)					
			(L)					
			(M)					
			(N)					

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NOTES:

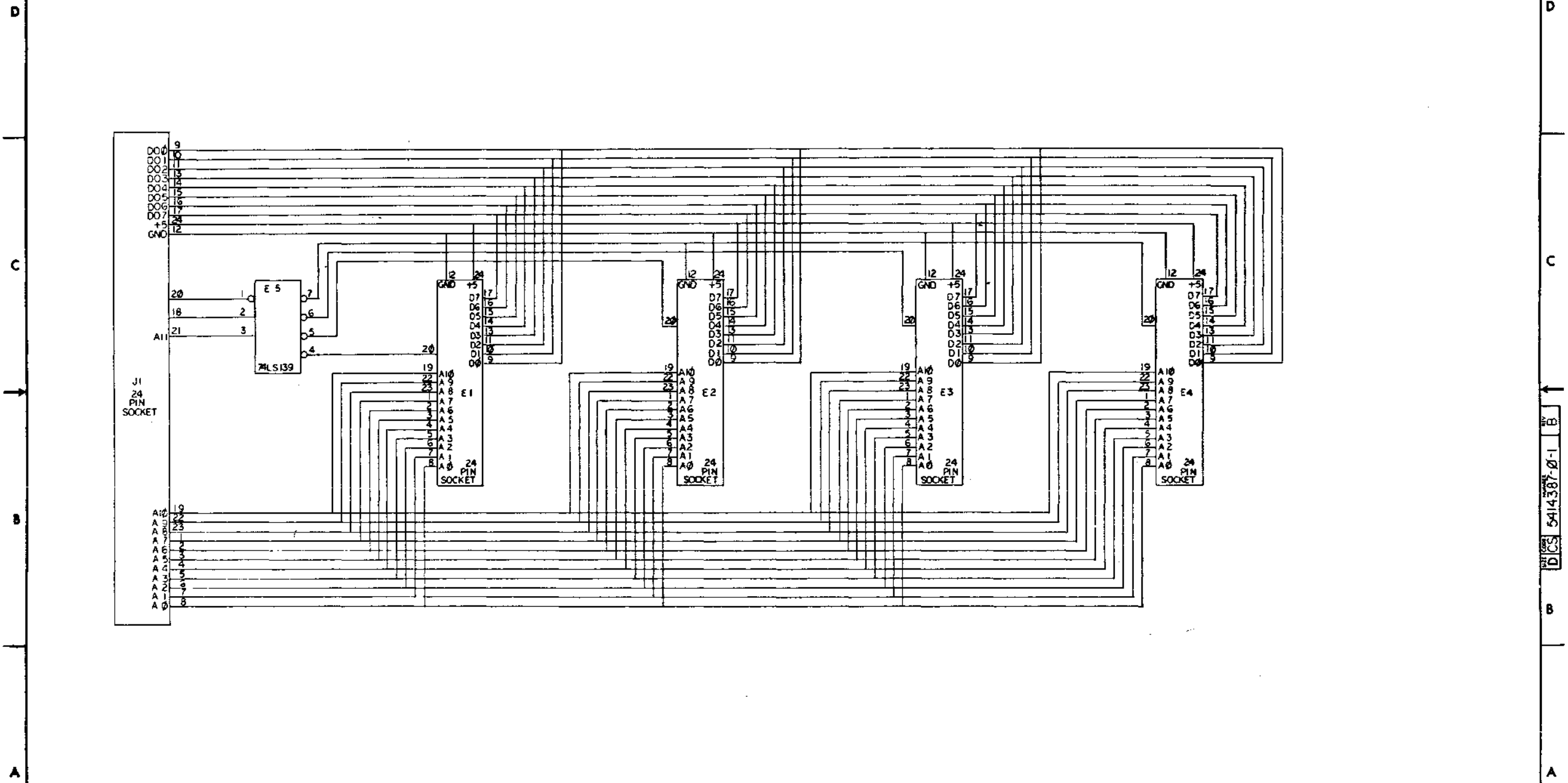
STEP 1	+ Y AXIS 2.125	STEP 3	TIMES
REPEAT	+ X AXIS 1.250	STEP 1	TIMES

CHANGE NO	REV	DATE	BY	APP
1	A			
2	B			
3	C			
4	D			

SIGNATURES		DATE	digital
DRN. <i>[Signature]</i>	<i>[Signature]</i>	12-7-77	
CHK'D <i>[Signature]</i>	<i>[Signature]</i>	12-7-77	TITLE ROM EXPANDER
MECH. ENG. <i>[Signature]</i>	<i>[Signature]</i>	12-7-77	
PROJ. ENG. <i>[Signature]</i>	<i>[Signature]</i>	12-7-77	
PROD. <i>[Signature]</i>	<i>[Signature]</i>	12-7-77	
SCALE 2:1	SIZE CODE	NUMBER	REV
BHT. 1 OF 2	0 CS	544387-2.1	d
NEXT HIGHER REV. 0-00-544387-0			

1 MSW

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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	ROM EXPANDER	SIZE CODE	D CS	NUMBER	5414387-0-1	REV.	B
SCALE	NONE	SHEET	2	OF	2	DIST.	

DIGITAL EQUIPMENT CORPORATION PARTS LIST

QUANTITY / VARIATION

NOTES:

1 POLY BAG MAY be replaced with shrink bag of equivalent size

MADE BY <i>L. Gilbert</i>	CHECKED <i>L. Gilbert</i>	SECTION
DATE <i>14 May 80</i>	DATE <i>14 May 80</i>	1
ENG <i>R. P. Adams</i>	PROD <i>R. P. Adams</i>	ISSUED SECTION
DATE <i>23 MAY 80</i>	DATE <i>23 MAY 80</i>	1

7017627-GA	7017627-DA	7017627-PA	7017627-JA	7017627-AA	7017627-PB					
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ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION
1		1700083-11	POWER CORD, TERM
2		3612520-00	TAG, CAUTION
3		3616153-01	LABEL, POWER REQUIREMENT 230 V
4		3616157-00	LABEL CORRECT VOLTAGE SETTING
5		9905129-33	BAG, POLYETHYLENE (SEE NOTE 1)
6		EK-OLA34-UG	USERS MANUAL LA34
7		3615514-00	RIBBON, CARTRIDGE LA00
8		1700163-01	CABLE ASSY 6 COND
9		7412103-00	PAPER PRPKG 132 COL
10		ED17035-58	OPTION INSTALLATION
11		3616799-01	LABEL, POWER RATING OEM
12		3617326-00	LABEL, PACKAGING

REF DESIGNATION

1	1	1	1	1	1					
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E.C.O. NO. **ORIG**
PNO72

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TITLE
USER'S KIT ASSEMBLY LA34/38

ASSY NO.
B-PL-LA34-0-0
SHEET 1 OF 1

SIZE **B** CODE **PL** NUMBER 7017627-C-0
INSERTION PARTS LIST DATA BASE REV

REV. **A**