

THIS IS PRINT SET

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SEQUENCE

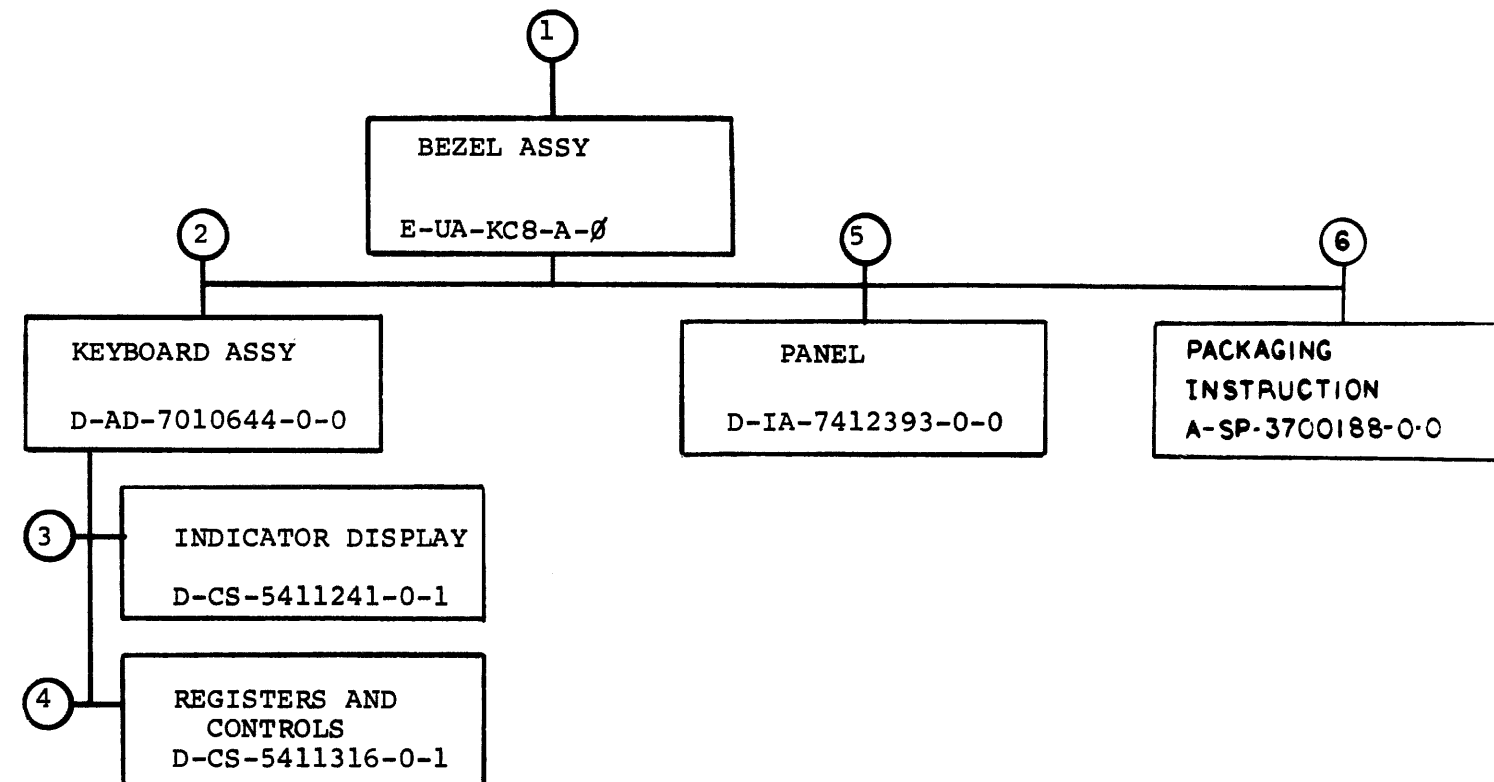
B-DD-KC8-A

A-SP-KC8-A-1
A-PL-KC8-A-2
E-UA-KC8-A-Ø
D-AD-7010644-0-0
D-CS-5411241-0-1
D-CS-5411316-0-1

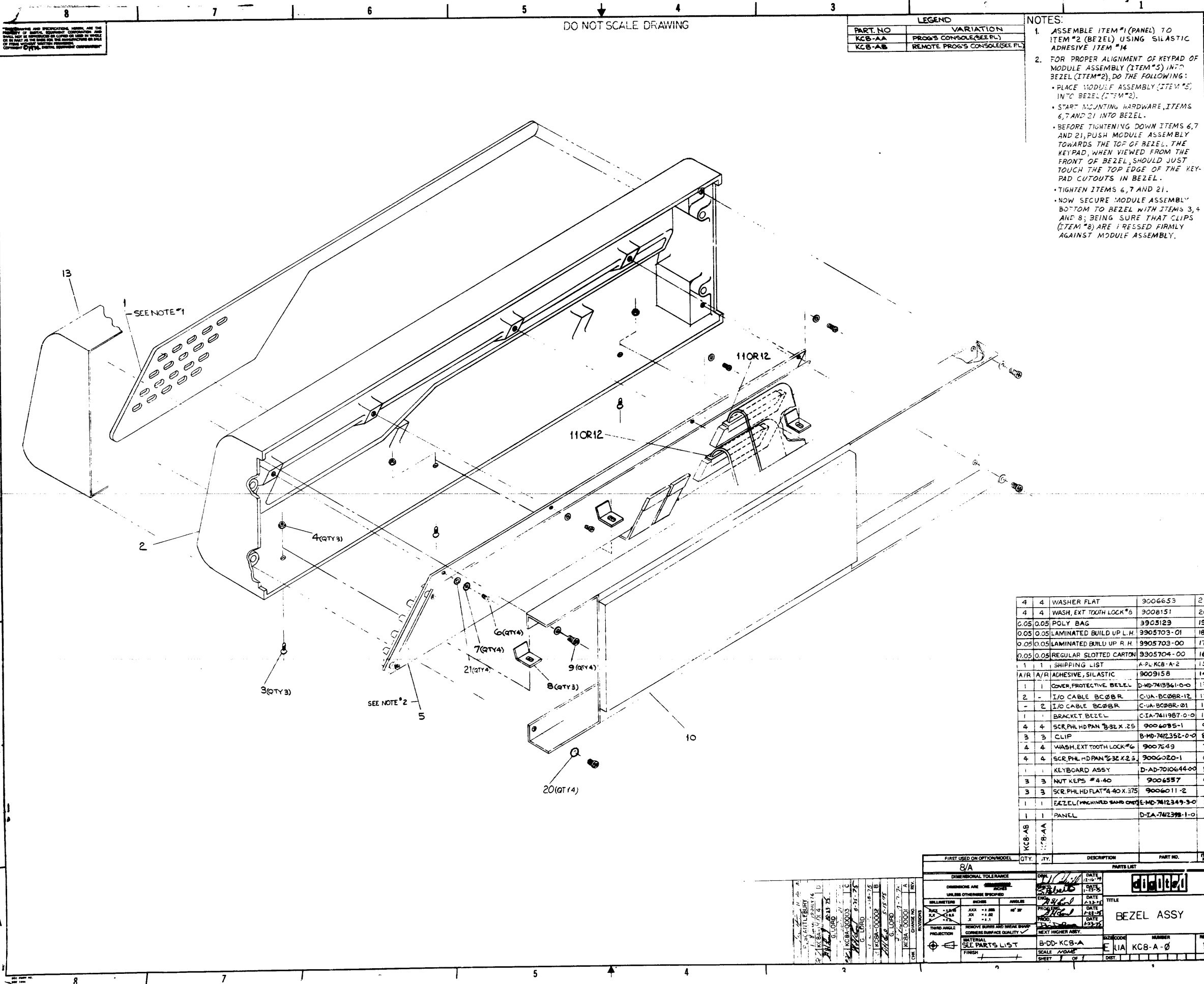
[illegible]

REVISIONS		
DATE	CHG. NO.	REV
4-75	KC8A-00001	A
6-75	KC8A-00002	B
10-75	KC8A-00003	C
7-76	KC8A-00004	D

USED ON OPTION/MODEL		DRN. 3 CAHILL	DATE 12/13/74	TITLE DRAWING DIRECTORY KC8-A									
8/A		CHK'D. S. Roberts	DATE 1-14-75										
		PROJ. ENG. [Signature]	DATE 1-23-75										
		PROD. [Signature]	DATE 1-23-75										
		FIELD SERV.	DATE										
SHEET 1 OF 3				SIZE B	CODE DD	NUMBER KC8-A						REV D	
				DIST									



TITLE	SHEET 2 OF 3	SIZE	CODE	NUMBER	REV
DRAWING DIRECTORY KC8-A	B	DD	KC8-A	D	

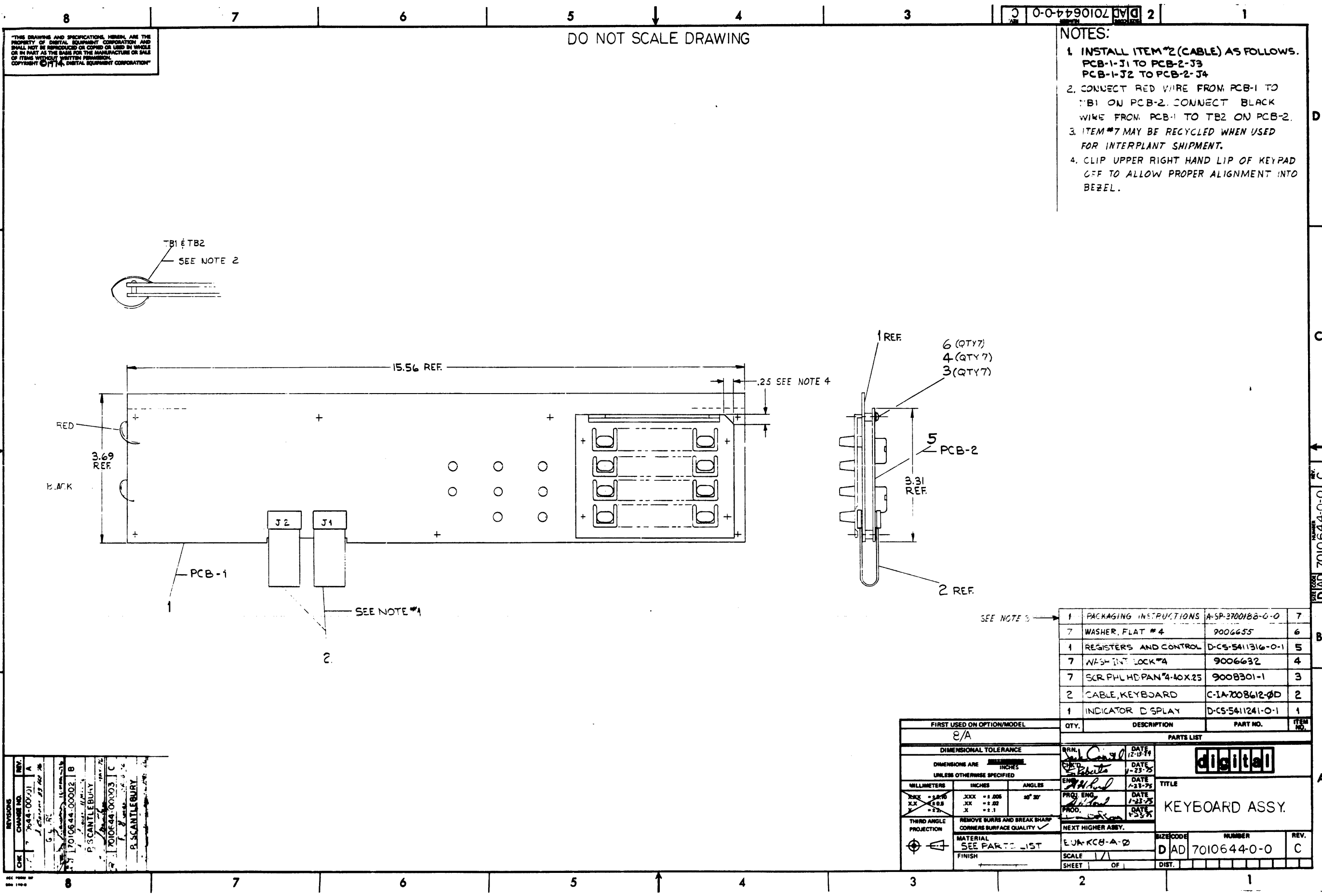


LEGEND	
PART NO	VARIATION
KCB-AA	PROG'S CONSOLE(SEE PL)
KCB-AB	REMOTE PROG'S CONSOLE(SEE PL)

- NOTES:
1. ASSEMBLE ITEM #1 (PANEL) TO ITEM #2 (BEZEL) USING SILASTIC ADHESIVE ITEM #14.
 2. FOR PROPER ALIGNMENT OF KEYPAD OF MODULE ASSEMBLY (ITEM #5) INTO BEZEL (ITEM #2), DO THE FOLLOWING:
 - PLACE MODULE ASSEMBLY (ITEM #5) INTO BEZEL (ITEM #2).
 - START MOUNTING HARDWARE, ITEMS 6, 7 AND 21 INTO BEZEL.
 - BEFORE TIGHTENING DOWN ITEMS 6, 7 AND 21, PUSH MODULE ASSEMBLY TOWARDS THE TOP OF BEZEL. THE KEYPAD, WHEN VIEWED FROM THE FRONT OF BEZEL, SHOULD JUST TOUCH THE TOP EDGE OF THE KEYPAD CUTOUTS IN BEZEL.
 - TIGHTEN ITEMS 6, 7 AND 21.
 - NOW SECURE MODULE ASSEMBLY BOTTOM TO BEZEL WITH ITEMS 3, 4 AND 8; BEING SURE THAT CLIPS (ITEM #8) ARE PRESSED FIRMLY AGAINST MODULE ASSEMBLY.

4	4	WASHER FLAT	9006653	21
4	4	WASH, EXT TOOTH LOCK #6	9008151	20
0.05	0.05	POLY BAG	3905123	19
0.05	0.05	LAMINATED BUILD UP L.H.	9905703-01	18
0.05	0.05	LAMINATED BUILD UP R.H.	9905703-00	17
0.05	0.05	REGULAR SLOTTED CARTON	9905704-00	16
1	1	SHIPPING LIST	A-PL KCB-A-2	15
A/R	A/R	ADHESIVE, SILASTIC	9009158	14
1	1	COVER, PROTECTIVE BEZEL	D-MD-7413341-0-0	13
2	-	I/O CABLE BC08R	C-IA-BC08R-12	12
-	2	I/O CABLE BC08R	C-IA-BC08R-01	11
1	1	BRACKET BEZEL	C-IA-7411987-0-0	10
4	4	SCR, PH, HD PAN 3/32 X .25	9006085-1	9
3	3	CLIP	B-MD-7412352-0-0	8
4	4	WASH, EXT TOOTH LOCK #6	9007649	7
4	4	SCR, PH, HD PAN 3/32 X .25	9006020-1	6
1	1	KEYBOARD ASSY	D-AD-7010644-00	5
3	3	NUT KEPS #4-40	9006557	4
3	3	SCR, PH, HD FLAT #4-40 X .375	9006011-2	3
1	1	BEZEL (MACHINED SAND ONST)	E-MD-7412349-3-0	2
1	1	PANEL	D-IA-7412398-1-0	1

FIRST USED ON OPTION/MODEL		QTY.	REV.	DATE	PARTS LIST	
8/A						
DIMENSIONAL TOLERANCE		DATE				TITLE
DIMENSIONS ARE IN INCHES		12-14-79				
UNLESS OTHERWISE SPECIFIED		DATE				REV.
		12-14-79				
MILLIMETERS	DIMENSIONS	ANGLES	DATE			REV.
		12-14-79				
3/16	3/16	3/16	DATE			REV.
		12-14-79				
3/32	3/32	3/32	DATE			REV.
		12-14-79				
1/8	1/8	1/8	DATE			REV.
		12-14-79				
1/4	1/4	1/4	DATE			REV.
		12-14-79				
1/2	1/2	1/2	DATE			REV.
		12-14-79				
3/4	3/4	3/4	DATE			REV.
		12-14-79				
1	1	1	DATE			REV.
		12-14-79				
2	2	2	DATE			REV.
		12-14-79				
3	3	3	DATE			REV.
		12-14-79				
4	4	4	DATE			REV.
		12-14-79				
5	5	5	DATE			REV.
		12-14-79				
6	6	6	DATE			REV.
		12-14-79				
7	7	7	DATE			REV.
		12-14-79				
8	8	8	DATE			REV.
		12-14-79				
9	9	9	DATE			REV.
		12-14-79				
10	10	10	DATE			REV.
		12-14-79				
11	11	11	DATE			REV.
		12-14-79				
12	12	12	DATE			REV.
		12-14-79				
13	13	13	DATE			REV.
		12-14-79				
14	14	14	DATE			REV.
		12-14-79				
15	15	15	DATE			REV.
		12-14-79				
16	16	16	DATE			REV.
		12-14-79				
17	17	17	DATE			REV.
		12-14-79				
18	18	18	DATE			REV.
		12-14-79				
19	19	19	DATE			REV.
		12-14-79				
20	20	20	DATE			REV.
		12-14-79				
21	21	21	DATE			REV.
		12-14-79				



REV.	CHG.	NO.	DATE	BY	APP.
1	A	1	12-13-74	W. C. Cantrell	
2	B	1	1-23-75	W. C. Cantrell	
3	C	1	1-23-75	W. C. Cantrell	
4	D	1	1-23-75	W. C. Cantrell	

- NOTES:
1. INSTALL ITEM #2 (CABLE) AS FOLLOWS.
PCB-1-J1 TO PCB-2-J3
PCB-1-J2 TO PCB-2-J4
 2. CONNECT RED WIRE FROM PCB-1 TO TB1 ON PCB-2. CONNECT BLACK WIRE FROM PCB-1 TO TB2 ON PCB-2.
 3. ITEM #7 MAY BE RECYCLED WHEN USED FOR INTERPLANT SHIPMENT.
 4. CLIP UPPER RIGHT HAND LIP OF KEYPAD OFF TO ALLOW PROPER ALIGNMENT INTO BEZEL.

QTY.	DESCRIPTION	PART NO.	ITEM NO.
1	PACKAGING INSTRUCTIONS	A-SP-3700188-0-0	7
7	WASHER, FLAT # 4	9006655	6
1	REGISTERS AND CONTROL	D-CS-5411316-0-1	5
7	WASH INT LOCK #4	9006632	4
7	SCR PHL HD PAN #4-40X.25	9008301-1	3
2	CABLE, KEYBOARD	C-1A-7008612-0D	2
1	INDICATOR DISPLAY	D-CS-5411241-0-1	1

FIRST USED ON OPTION/MODEL E/A		DATE 12-13-74	
DIMENSIONAL TOLERANCE DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED		DATE 1-23-75	
MILLIMETERS XXX = 0.010 XX = 0.008 X = 0.005	INCHES XXX = 0.005 XX = 0.002 X = 0.001	ANGLES 10° 30'	DATE 1-23-75
THIRD ANGLE PROJECTION	REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	DATE 1-23-75	
MATERIAL SEE PARTS LIST	FINISH	DATE 1-23-75	
NEXT HIGHER ASSY.		DATE 1-23-75	
EVA-KCB-A-0		DATE 1-23-75	
SCALE 1/1		DATE 1-23-75	
SHEET OF		DATE 1-23-75	

PARTS LIST		TITLE	
digital		KEYBOARD ASSY.	
D AD 7010644-0-0		REV. C	

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NOTES:

1. HAND INSERT KEYPAD AFTER WAVE SOLDERING
2. MOUNT ITEM #37 (INSERTS) IN 7 HOLES, AFTER COMPONENTS HAVE BEEN MOUNTED.
3. DEC PART NUMBER 1210054 MAY BE SUBSTITUTED FOR DEC 1211813-01 ON THIS BOARD.
4. USE #4 HARDWARE ITEMS (38,39 & 40) TO MOUNT ITEMS 12 & 41 TO SIDE 1, EXCEPT AT LOWER LEFT CORNER.
5. USE ITEM 36 BETWEEN ITEM 9 (LED) AND BOARD BEFORE SOLDERING.
6. SEE DETAIL 'B' FOR ASSEMBLY OF KEYPAD.

WIRE TABLE

ITEM	FROM	WITH	TO	WITH	LENGTH
42	TB1	SOLDER	FREE	44	3.0"
43	TB2	SOLDER	FREE	44	3.0"

4 REF

37 REF

SEE NOTE 2

VIEW A-A

COMPONENT SIDE

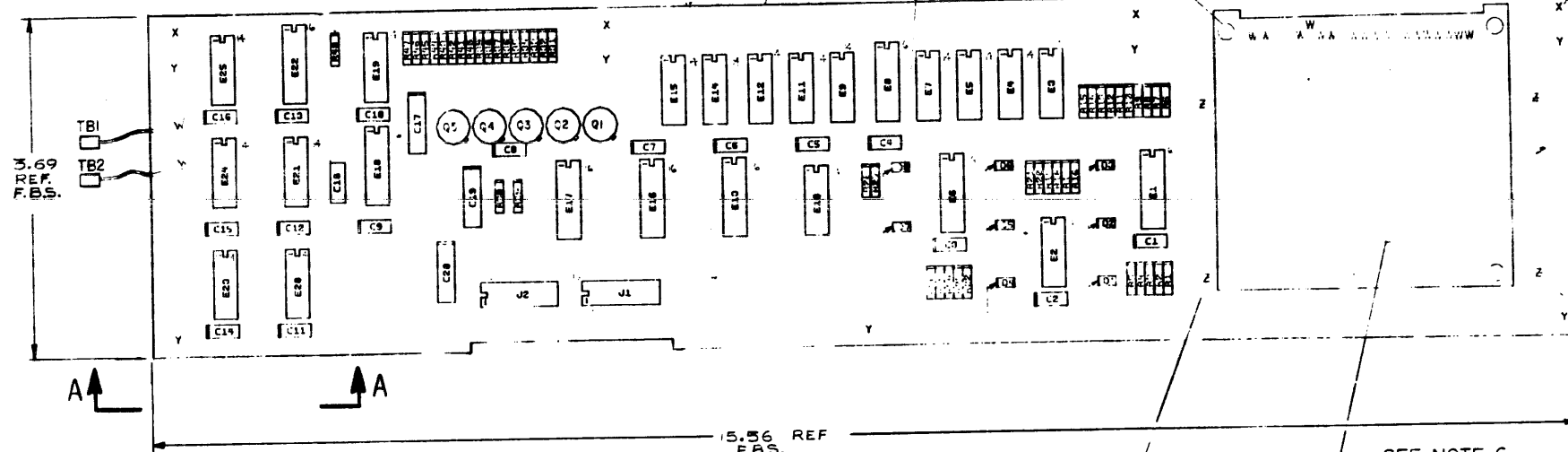
8 SPACES

SEE NOTE 5

3 PLACES

SEE NOTE 4

DETAIL 'B'
SCALE: NONE



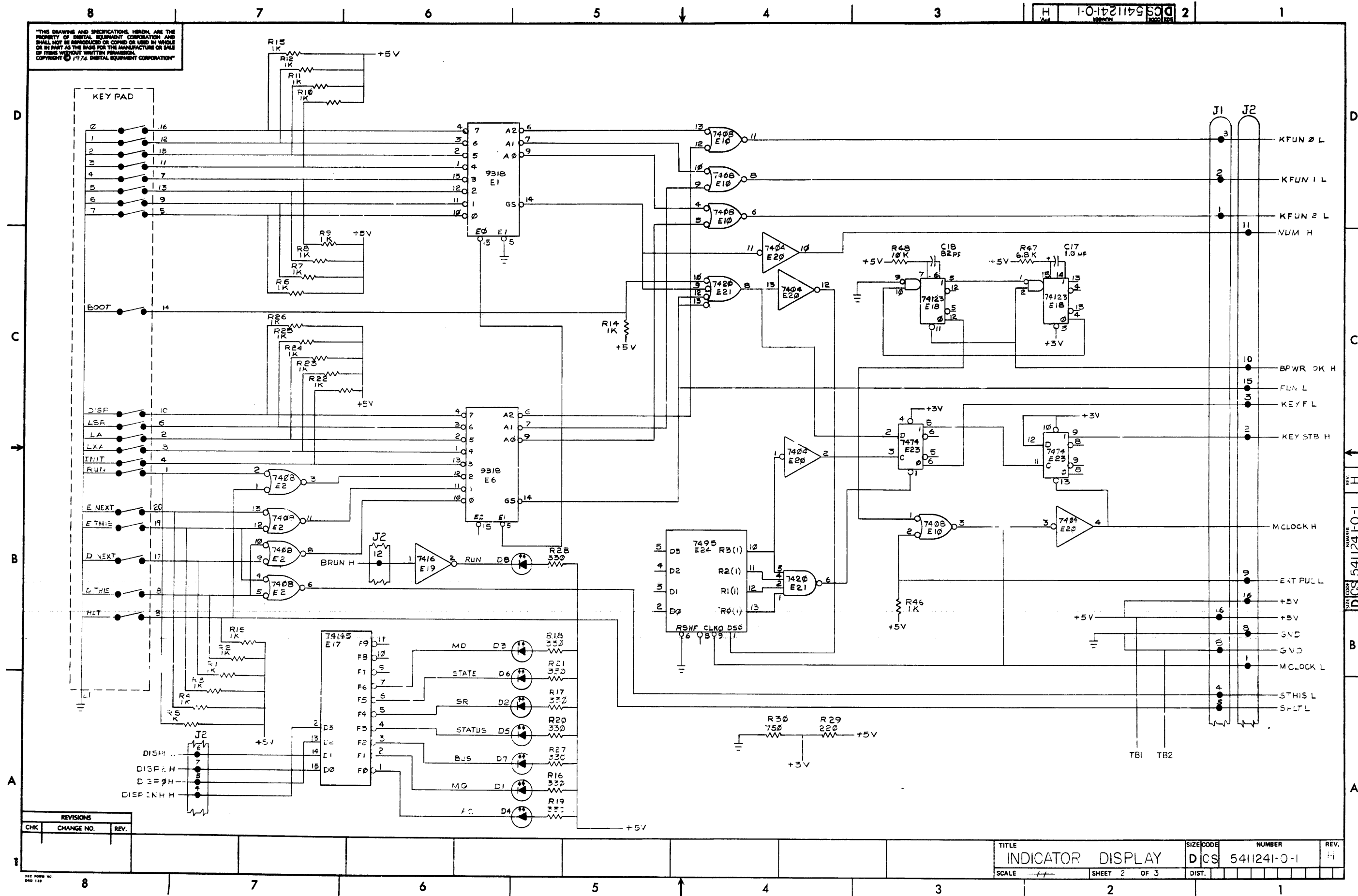
SEE NOTE 6

DEC I.C. #	QTY	LOC
DEC I.C. 8251	8	16
DEC I.C. 7490	10	5
DEC I.C. 74145	8	16
DEC I.C. 7495	8	14
DEC I.C. 7318	8	16
DEC I.C. 74123	8	16
IC TYPE	GND	+5V
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPT WHERE STATED ABOVE		
IC PIN LOCATIONS		

REF		X-Y COORDINATE HOLE LOCATION	K-CO-5411241-B-4	1
REF		ASSY/DRILLING HOLE LAYOUT	D-AH-5411241-B-5	2
REF		MODULE ECO HISTORY	B-MH-5411241-B-6	3
1		ETCHED CIRCUIT BOARD	5011240	4
1	C18	CAPACITOR, 82pf, 100V, 5%	1000015	5
18	C1 THRU C16	CAPACITOR, .01uf, 50V, AXIAL	1001610-00	6
1	C17	CAPACITOR, 1.0uf, 35V, 10%	1001776-00	7
2	C19, C20	CAPACITOR, 0.0uf, 35V, 10%	1005306	8
8	D1 THRU D8	LED	1110864	9
9	E3, E5, E7, E9, E11, E12, E14, E15, E4	14 PIN I.C. SOCKET	1211813-01 SEE NOTE #3	10
2	J1, J2	16 PIN I.C. SOCKET	1211813-02	11
1		KEYPAD ASSY.	1211856	12
1	R29	RESISTOR, 220, 1/4W, 5%	1300271	13
8	R16 THRU R21, R27, R29	RESISTOR, 330, 1/4W, 5%	1300295	14
5	R32, R35, R38, R41, R44	RESISTOR, 470, 1/4W, 5%	1300316	15
21	R1 THRU R15, R22 THRU R28, R46	RESISTOR, 1K, 1/4W, 5%	1300365	16
1	R48	RESISTOR, 10K, 1/4W, 5%	1300479	17
4	R36, R39, R42, R45	RESISTOR, 10, 1/4W, 5%	1301317	18
1	R30	RESISTOR, 750, 1/4W, 5%	1301401	19
6	R31, R33, R34, R37, R40, R43	RESISTOR, 27, 1/4W, 5%	1301522	20
1	R47	RESISTOR, 9.0K, 1/4W, 5%	1301423	21
5	Q1 THRU Q5	TRANSISTOR, MPSA05	1510705	22
1	E23	I.C. DEC 7474	1905547	23
1	E21	I.C. DEC 7420	1905577	24
1	E25	I.C. DEC 7490	1909051	25
1	E24	I.C. DEC 7495	1909055	26
1	E22	I.C. DEC 8251	1909594	27
1	E20	I.C. DEC 7404	1909686	28
1	E19	I.C. DEC 7418	1909928	29
1	E17	I.C. DEC 74145	1910047	30
2	E2, E10	I.C. DEC 7409	1910155	31
1	E18	I.C. DEC 74123	1910436	32
2	E1, E6	I.C. DEC 9318	1910454	33
3	E8, E13, E16	I.C. DEC 7447A	1911295	34
9	E3, E4, E5, E7, E9, E11, E12, E14, E15	7 SEG. DISPLAY	1911297	35
8		WASHER, SHOULDER	9008518	36
7		INSERTS, PC BOARD	9009113-2	37
4		SCREEN P.L.H. 4-1/2"	900914-01	38
2		WASHER, FLAT 3/8 X 1/2 X 1/8	900915	39
3		WASHER, FLAT 3/8 X 1/2 X 1/8	900915	40
1		SPACER, KEY PAD	B-MO-7413722-0	41
3"		WIRE #22 AWG (RED)	9107350-22	42
3"		WIRE #22 AWG (BLACK)	9107350-00	43
2		CONN, SOLDERLESS (RED)	9007970	44
1		SPACER, FIBER 4-40 X .250 X .312 LG	9007623	45
1		RETAINER, KEYBOARD ACSY	C-1A-7013177-C-0	46

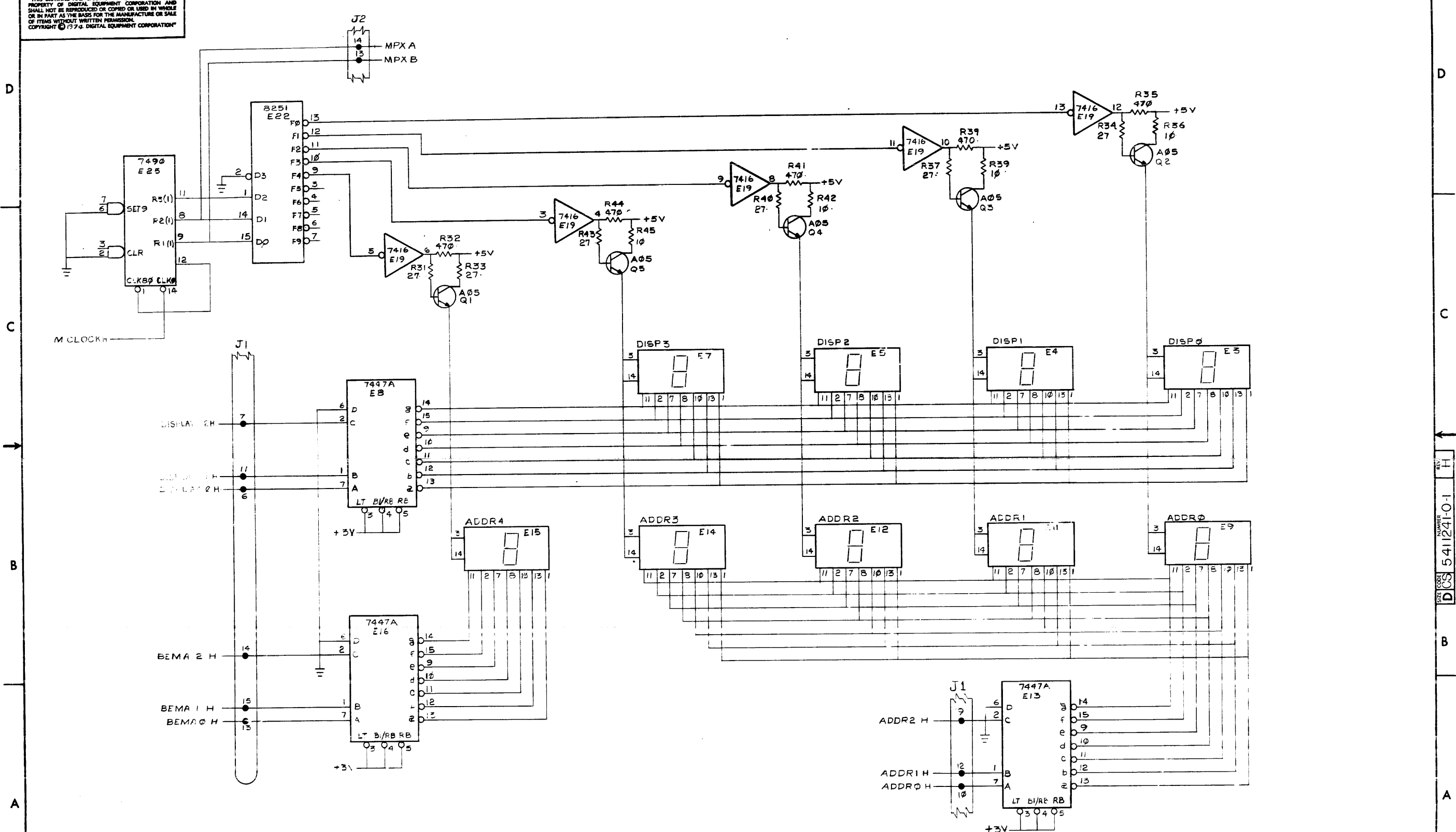
FIRST USED ON OPTION MODEL
KC8AA

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
ETCH BOARD REV. D				
TITLE				
INDICATOR DISPLAY				
NEXT HIGHER ASSY				
D-AD7010644-C-0				
SCALE				
SHEET 1 OF 3				
REV. H				
SIZE CODE				
NUMBER				
DIST.				
SEMICONDUCTOR CONVERSION CHART				
DEC NO.	EIA NO.	DEC NO.	EIA NO.	



REVISIONS		
CHK	CHANGE NO.	REV.

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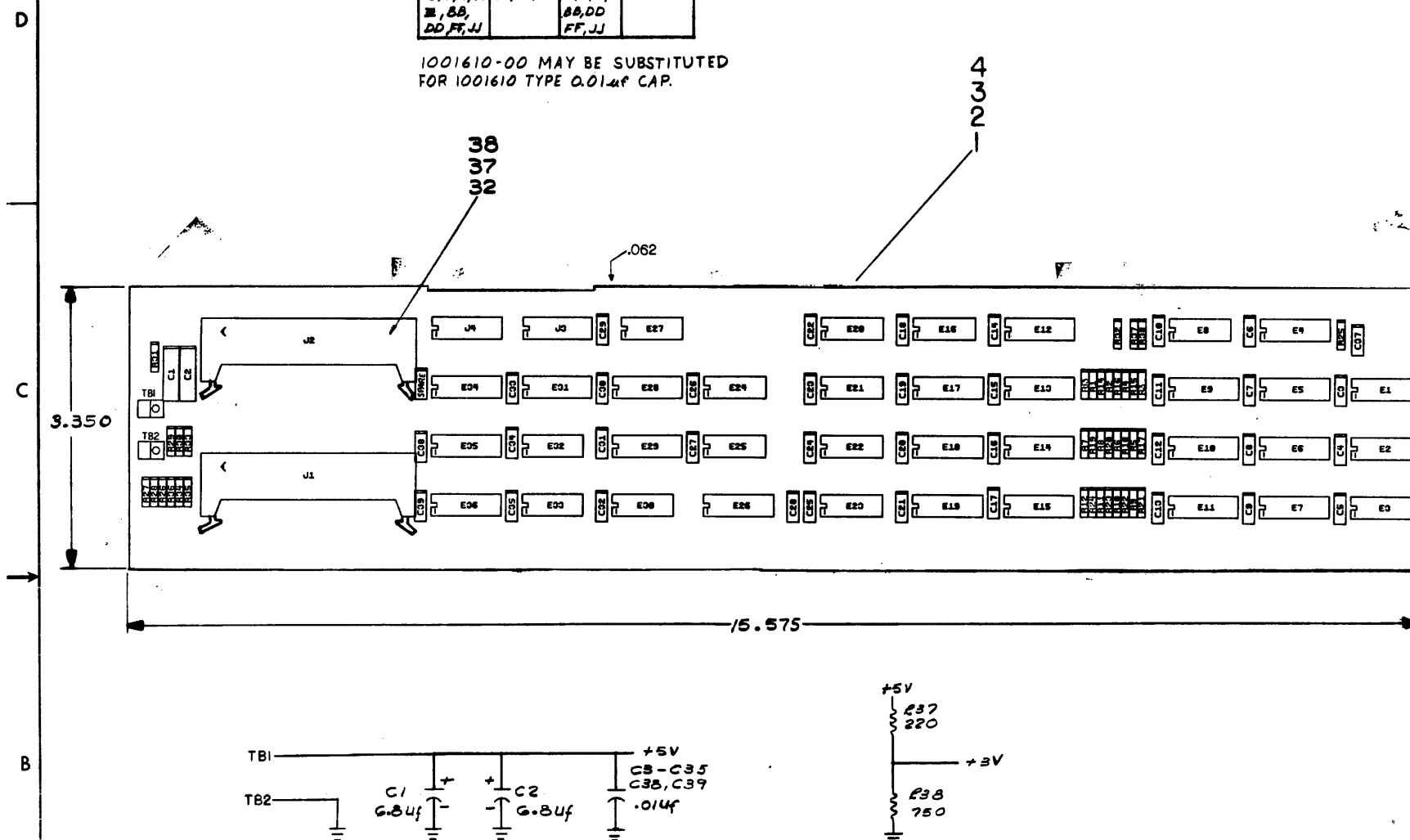
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE	CODE	NUMBER		REV.
INDICATOR DISPLAY		D	CS	5411241-0-1		H
SCALE		SHEET 3 OF 3		DIST.		

NOTES:

J1		J2	
GND	+5V	GND	+5V
B, D, F	LL, NN	B, D, F, J	LL, NN
J, L, N	RR, SS,	L, N, R	RR, TT,
E, T, V, X	TT, UU, VV	T, V, X, Z	VV
W, BB,		BB, DD	
DD, FF, JJ		FF, JJ	

1001610-00 MAY BE SUBSTITUTED
FOR 1001610 TYPE Q.0148 CAP.



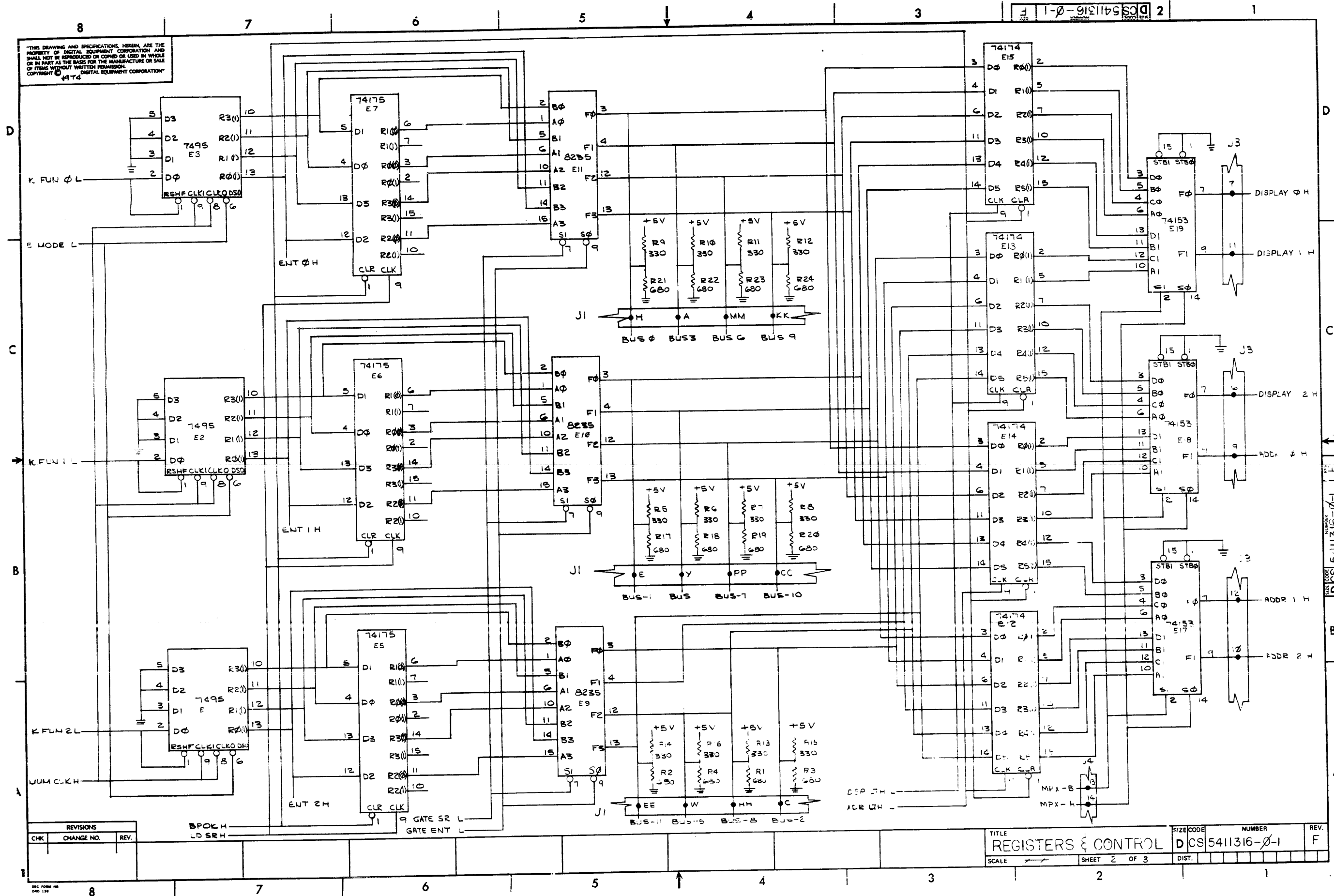
REF	X-YCOORDINATE HOLE LOCATION	K-CO-54113/60-4	1
REF	ASSY/DEILLINATE HOLE LAYOUT	D-AH-54113/60-5	2
REF	MODULE ECO HISTORY	B-MH-54113/60-6	3
1	ETCHED CIRCUIT BOARD	5011315	4
1	C37	CAP 56MNF 100V	1000012
55	C3, C35, C38, C39	CAP .01UF 100V 20%	1001610-01
2	C1, C2	CAP 6.3 uf 35V	1005306
2	E1G, E2O	I.C DEC 7474	1908547
2	E8, E30	I.C DEC 7400	1903575
2	E22, E33	I.C DEC 7402	1909004
1	E26	I.C DEC 7475	1909050
3	E1, E2, E3	I.C DEC 7495	1909055
2	E29, E35	I.C DEC 8251	1909594
2	E24, E27	I.C DEC 7404	1909686
1	E23	I.C DEC 7416	1909928
3	E9, E10, E11	I.C DEC 8235	1909935
3	E17, E18, E19	I.C DEC 74153	1909937
1	E32	I.C DEC 7408	1910153
1	E4	I.C DEC 74123	1910436
3	E5, E6, E7	I.C DEC 74175	1910651
5	E12, E13, E14, E15, E36	I.C DEC 74174	1910652
2	E21, E25	I.C DEC 7427	1910878
3	E28, E31, E34	I.C DEC 8097	1911527
12	R5- R16	RES 330 1/4W 5%	1300295
1	R37	RES 220 1/4W 5%	1300271
2	R27, R30	RES 390 1/4W 5%	1300309
7	R28, R31 - R36	RES 1K 1/4W 5%	1300335
2	R26, R29	RES 180 1/4W 5%	1301322
1	R33	RES 750 1/4W 5%	1301401
1	R25	RES 6.5K 1/4W 5%	1301423
12	R1- R4, R17- R24	RES 680 1/4W 5%	1301424
2	J1, J2	CONN 40 PIN	1209941-02
2	J3, J4	SOCKET I.C 16 PIN	1211813-02
N/R	WIRE, #30AWG, GREEN	9105740-55	54
2	TBI, TB2	TAB FASTON (OFFSET)	9007112
2	TBI, TB2	EYELET	9009000
2	LATCH, LEFT 40P.RT.ANG. HD.	1209941-03	37
2	LATCH, RIGHT 40P.RT.ANG. HD	1209941-04	38

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
ETCH BOARD REV	B.	C		
		DRG	DATE	
		CHG'D	DATE	
		ENG	DATE	
		PROJ. ENG	DATE	
		PROD.	DATE	
		NEXT HIGHER ASSY		
		U-AD-7010644-C-0		
DEC NO.	EIA NO.	SCALE	SIZE CODE	NUMBER
CONVERSION CHART		SHEET	OF	REV.
		DIST.		

I.C DEC 74174	8	16
I.C DEC 7475	12	5
I.C DEC 8251	8	16
I.C DEC 8835	8	16
I.C DEC 74153	8	16
I.C DEC 74123	8	16
I.C DEC 74175	8	16
I.C DEC 8097	8	16
IC TYPE	GND	+ 5V
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPTIONS ARE STATED ABOVE		
IC PIN LOCATIONS		

[illegible]

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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE CODE	NUMBER	REV.
REGISTERS & CONTROL		DCS	5411316-0-1	F
SCALE		SHEET	2 OF 3	

