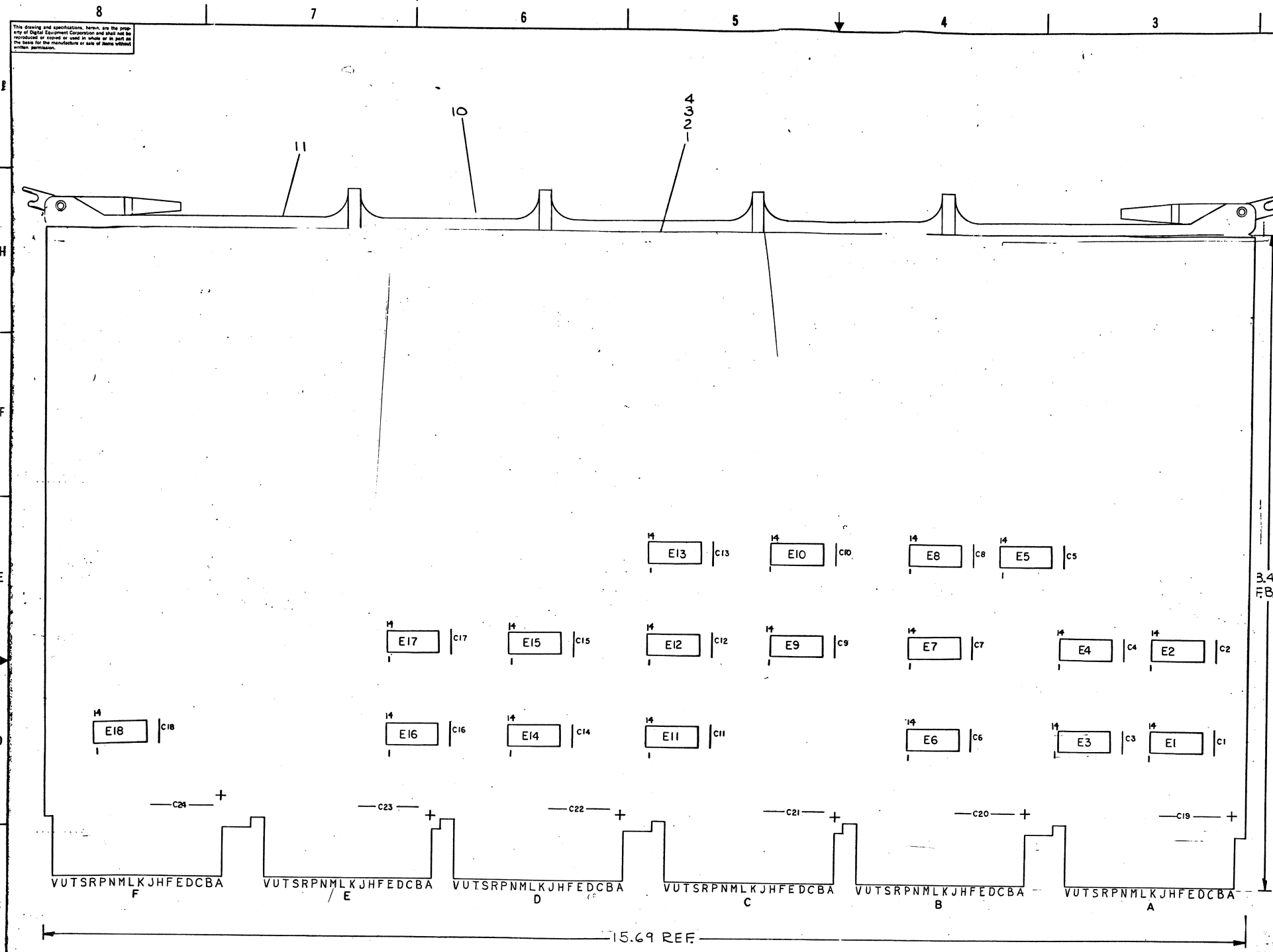
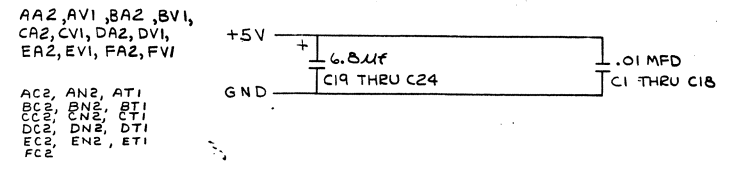




NOTES:
1. UNLESS OTHERWISE NOTED RESISTANCE IS IN Ω AND CAPACITANCE IS IN PICO FARADS. CAPS. WITHOUT VALUE NOTED ARE .01, MFD.

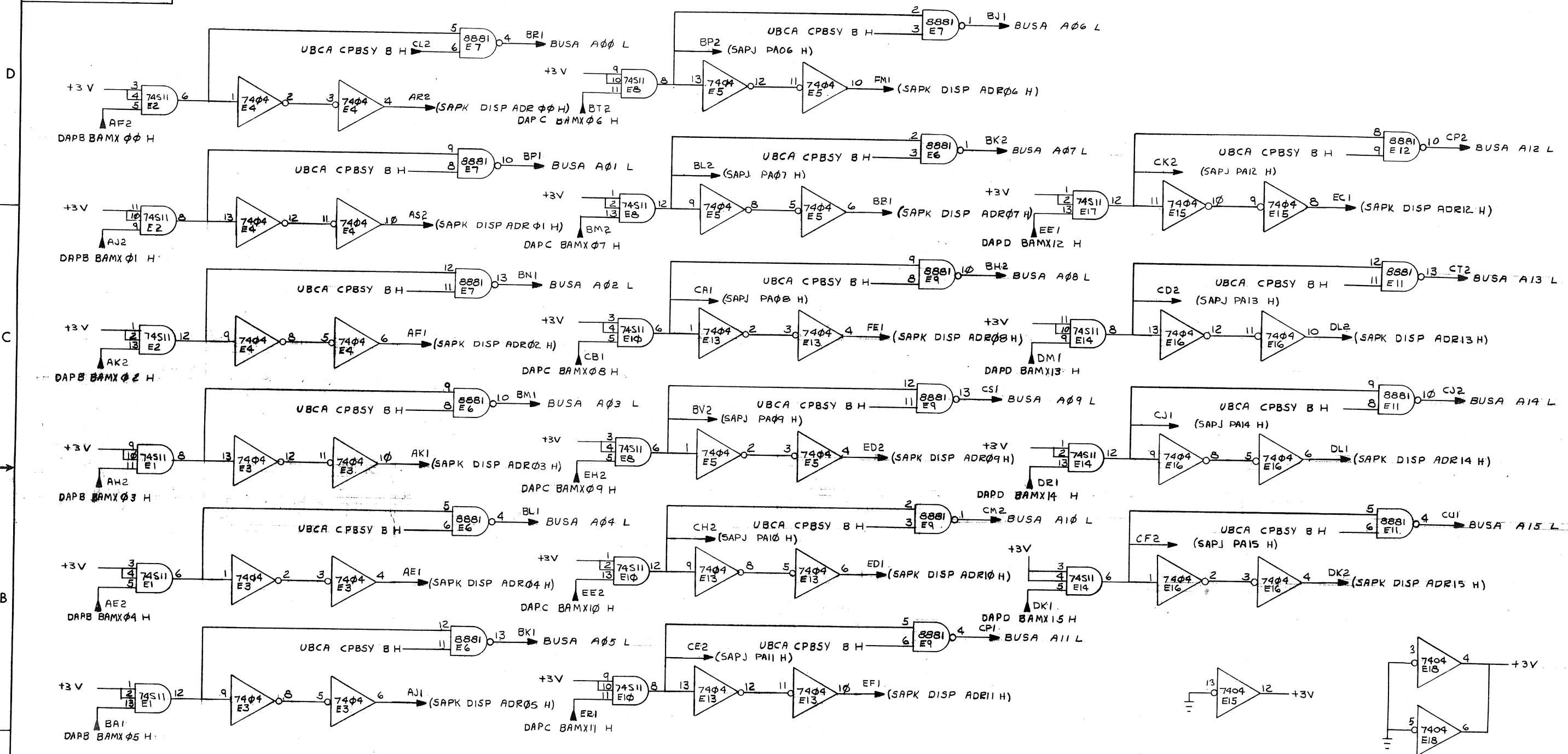


IC TYPE	GND	+5V	ITEM NO.	AWG	FROM PT	TO PT
IC PIN LOCATIONS						
JUMPER LIST						

1	HANDLE, MODULE	E-PS-1210711-2	11
12	EYELET	9006732	10
6	E1, E2, E3, E10, E14, E17	IC DEC 74S11	9
5	E6, E7, E9, E11, E12	IC DEC 8881	8
7	E3, E4, E5, E13, E15, E16, E18	IC DEC 7404	7
18	C1 THRU C18	CAPACITOR .01M Ω , 100V, 20% DISC	6
6	C19 THRU C24	CAPACITOR 6.8M Ω , 35V, 10%	5
1	ETCHED CIRCUIT BOARD	5009950	4
REF	MODULE ECO HISTORY	B-MH-M8116-0-4	3
REF	ASSY/DRILLING HOLE LAYOUT	E-MH-M8116-0-5	2
REF	X-Y COORDINATE HOLE LOCATION	KCO-M8116-0-4	1
QTY	REF DESIGNATION	DESCRIPTION	PART NO.

DEC NO.	EIA NO.	DEC NO.	EIA NO.
SEMICONDUCTOR CONVERSION CHART			
TITLE: SYSTEM ADDRESS BUFFERS			
EQUIPMENT CORPORATION			
SCALE: 2/1			
SHEET: 1 OF 3			

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ADDRESS LINES 0 - 15

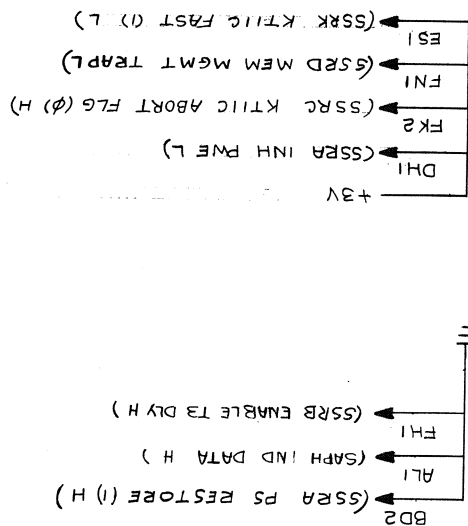
SLOT 14

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/45				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRN CHKD ENG PROG ENG PROD	DATE 11-18-71 3/2/72 3/2/72 3/15/72	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
DECIMALS .XXX = .005 .XX = .02 .X = .1	ANGLES ±0° 30'			
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL FINISH				
NEXT HIGHER ASSY.				
B-DB-11/45-0		SCALE	SIZE CODE DCS M8116-0-1	NUMBER REV. B
SHEET 2 OF 3		DIST.		

SYSTEM ADDRESS
BUFFERS

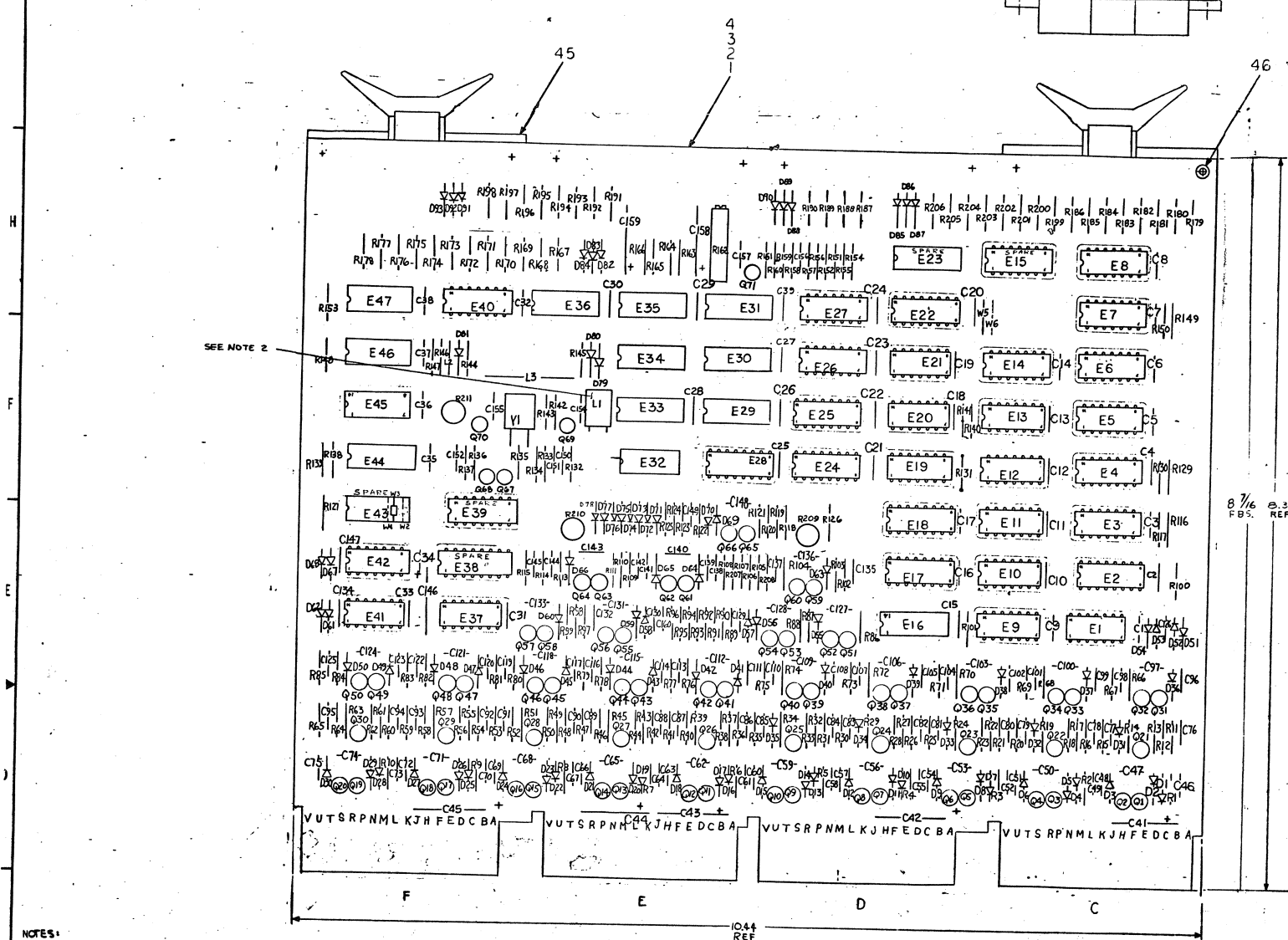
(S J B A)

BRUNING 40-522 15640
DEC FORM NO
DRD 102-B

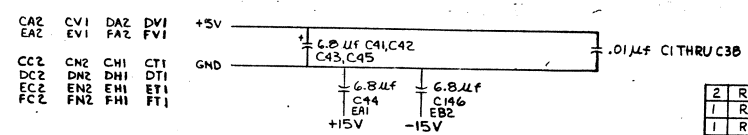


SIZE	CODE	NUMBER	REV
D	CS	M816-Ø-1	B

This drawing and specification, when taken in conjunction with the drawing and specification of the other drawings of this equipment, shall be used to fabricate and assemble the equipment. It is the responsibility of the fabricator to ensure that the equipment is assembled in accordance with the drawing and specification.



NOTES:
1. UNLESS OTHERWISE NOTED: RESISTANCE IS IN OHMS. CAPACITANCE IS IN PICOFARADS. CAPS WITHOUT VALUE NOTED ARE 22 MFD 50V. DIODES ARE TYPE FD777 & ALL NPN TRANSISTORS ARE DEC 3009B PNP TRANSISTORS ARE DEC 425B.
2. BOND LI TO ETCHED BOARD



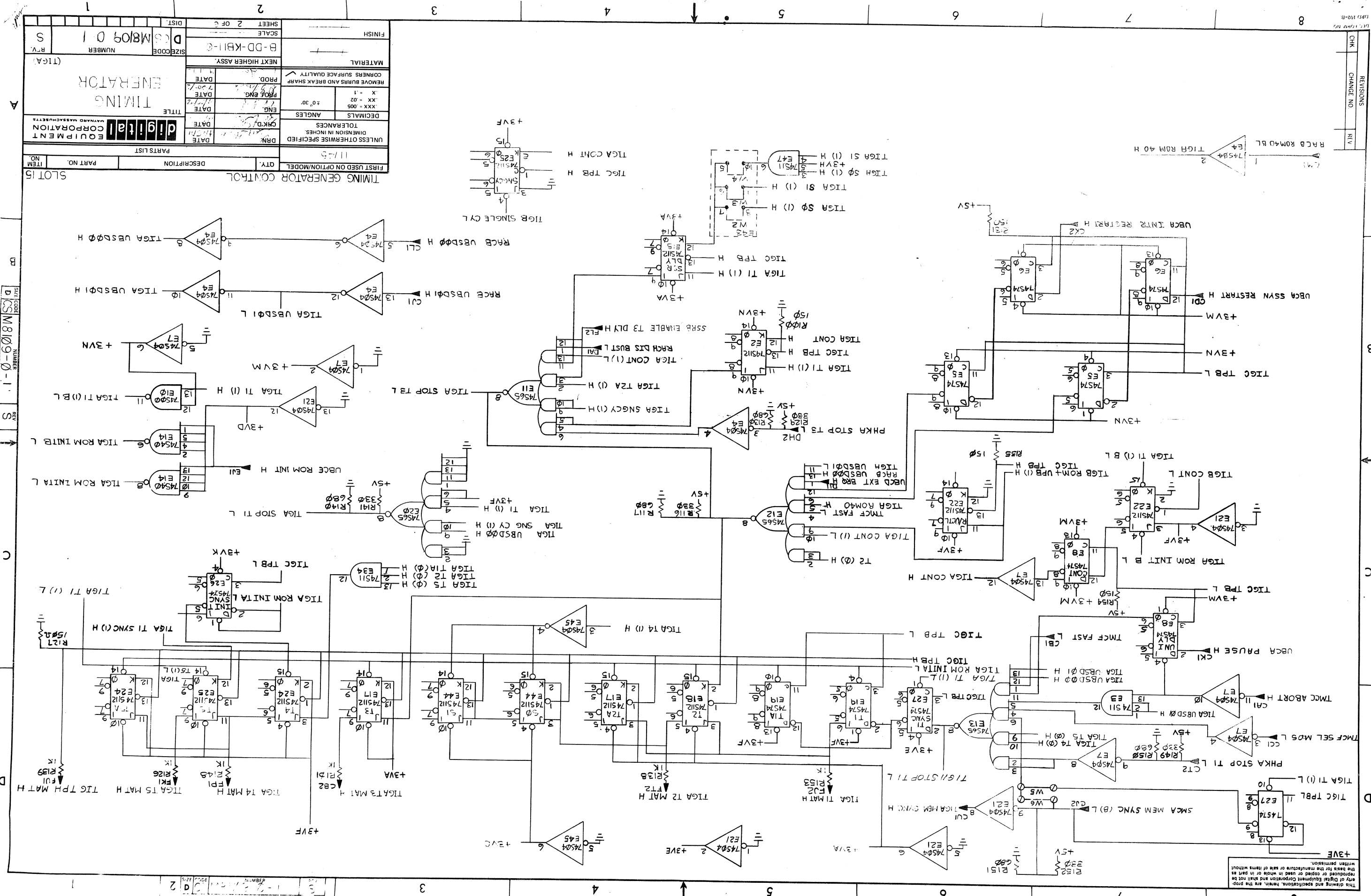
QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
2	R209, R210	POT. 2K 1/2 W	13-09150-07	51
1	R211	POT. 100 1/2 W	13-09150-05	50
1	R136	RES. 120 1/4 W 5%	13-00247	49
2	W3, W5	JUMPER INSULATED	9009185	48
1		EYELET #664-7	9006732	47
4		HANDLE FLIP-CHIP MAGENTA	9008337-04	46
1	Y1	CRYSTAL 33.333MHZ	1810694-1	44
1	L2	INDUCTOR 47uH NYTRONICS WEE-WEE -0A7	1610999	43
1	L1	INDUCTOR .22uH VARIABLE NYTRONICS WEE VL .22	1611000	42
1	L3	INDUCTOR RFCS 33uH	1601759	41

35	D1, D3, D5, D7, D9, Q11, D12, D15, Q11, Q14, Q21, THRU D35, Q31 THRU Q40, Q51, Q54, Q56, Q58, Q59, Q64, Q65, Q66, Q69, Q70	TRANSISTOR DEC 42.5 B	1505 321	40
36	Q2, Q4, Q6, Q8, Q10, Q12, Q14, Q16, Q18, Q20, Q24 THRU Q30, Q41 THRU Q50, Q52, Q53, Q57, Q60, Q61, Q62, Q64, Q 67, Q68, Q71, Q55	TRANSISTOR DEC 300A B	15 03100	39
1	E35	IC. DEC 745140	1910546	38
	E2, E17, E18, E22, E24 E45, E28, E44	IC. DEC 745112	1910545	37
8	E5, E8, E19, E29, E33 E6, E26, E27	IC. DEC 745174	1910544	36
4	E11, E12, E13, E20	IC DEC 74565	1910543	35
1	E32	IC. DEC 74564	1910542	34
6	E19, E14, E14, E37, E41	IC. DEC 74540	1910541	33
2	E40, E46	IC. DEC 74520	1910539	32
3	E3, E34, E47	IC. DEC 74511	1910537	31
5	E4, E7, E21, E30, E45	IC. DEC 74504	1910534	30
4	E10, E31, E36, E42	IC. DEC 74500	1910532	29
1	R1E2	POT 1K 3/4W 10%	1309143-07	28
9	R11, R130, R151, R180, R17, R150, R151, R163, R166	RES. 680 1/4W 5%	1301424	27
1	R142	RES. 750 1/4W 5%	1301401	26
13	R6, R78, R70, R12, R14, R16, R18, R20, R22, R24, R18, R19, R120	RES. 1.2K 1/4W 5%	1301320	25
26	R13, R15, R18, R20, R23, R25, R28, R30, R 33, R35, R38, R41, R44, R47, R50, R53, R56, R59, R62, R63, R102, R104, R111, R115, R132, R158	RES. 10 1/4W 5%	1301317	24
5	R2, R17, R22, R21, R32	RES. 15K 1/4 5%	1300496	23
22	R1 THRU R10 R40 R46 R52 R58 R54 R67 R69 R71 R13 R75 R99 R113	RES. 4.7K 1/4 5%	1300447	22
7	R77, R79, R81, R83, R85, R86, R103	RES. 3K 1/4 5%	1300432	21
6	R11, R16, R21, R24, R31, R143	RES. 15K 1/4 5%	1300391	20
76	R34, R37, R42, R43, R48, R49, R54, R55, R60, R61, R81 THRU R94, R105 THRU R111 R12, R13, R14, R16, R102, R108, R139, R148, R153, R167 THRU R208	RES. 1K 1/4 5%	1300365	19
12	R16 R19, R14, R16, R18, R19, R152, R153, R154, R155, R156, R157, R158, R159, R160, R161, R162, R163, R164, R165, R166, R167, R168, R169, R170, R171, R172, R173, R174, R175, R176, R177, R178, R179, R180, R181, R182, R183, R184, R185, R186, R187, R188, R189, R190, R191, R192, R193, R194, R195, R196, R197, R198, R199, R200, R201, R202, R203, R204, R205, R206, R207, R208, R209, R210, R211, R212, R213, R214, R215, R216, R217, R218, R219, R220, R221, R222, R223, R224, R225, R226, R227, R228, R229, R230, R231, R232, R233, R234, R235, R236, R237, R238, R239, R240, R241, R242, R243, R244, R245, R246, R247, R248, R249, R250, R251, R252, R253, R254, R255, R256, R257, R258, R259, R260, R261, R262, R263, R264, R265, R266, R267, R268, R269, R270, R271, R272, R273, R274, R275, R276, R277, R278, R279, R280, R281, R282, R283, R284, R285, R286, R287, R288, R289, R290, R291, R292, R293, R294, R295, R296, R297, R298, R299, R300, R301, R302, R303, R304, R305, R306, R307, R308, R309, R310, R311, R312, 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REV	CHANGE NO	REVISIONS
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REV	CHANGE NO	REVISIONS
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PARTS LIST	
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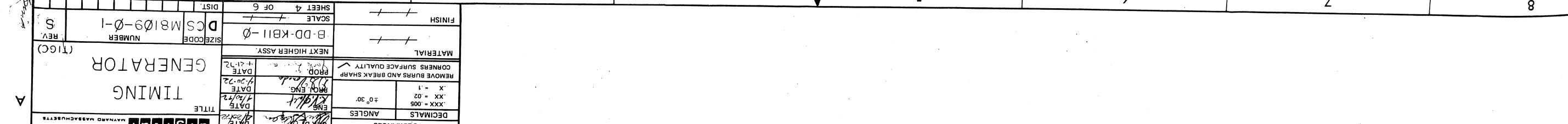
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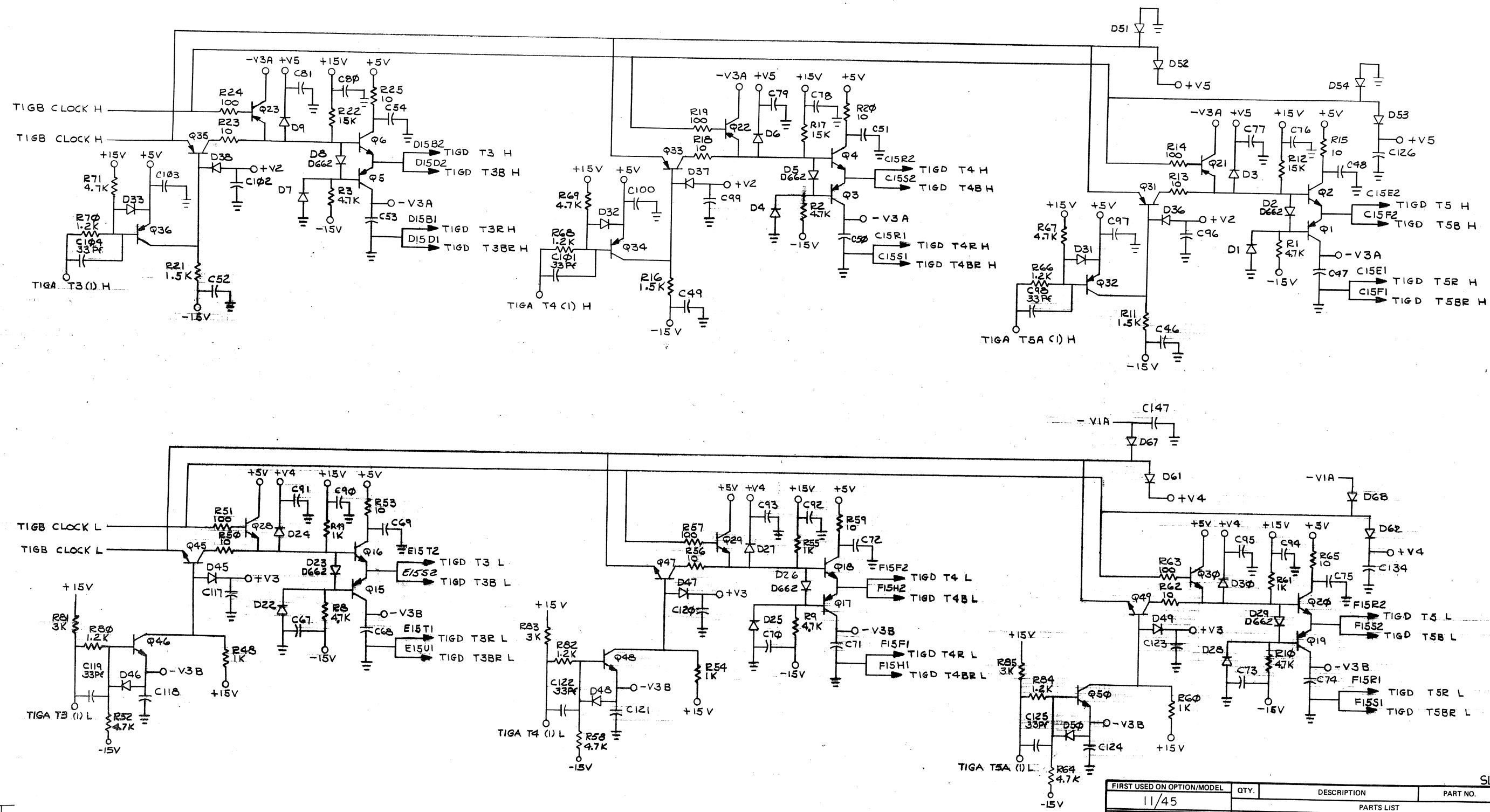
MAINT. SWITCHES: REF. TO XMAA BOARD		
S4	SINGLE TIME STEPPER	
S3	Ø = CRYSTAL TIMING SOURCE 1 = RC TIMING SOURCE	
S1	S2	MODE CONTROL
Ø	Ø	NO EFFECT
Ø	1	SINGLE ROM CYCLE
1	Ø	UPB STOP
1	1	SINGLE PULSE (USE SWØ)

TIMING SOURCE CONTROL		SLOT 15	
FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION
11/45			PART NO.
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		ITEM NO.	
DECIMALS		PARTS LIST	
ANGLES		 DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
.XXX = .005		TITLE	
.XX = .02		TIMING GENERATOR	
.X = .1			
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓			
MATERIAL		DRN. S.W. <i>W. R. L. L.</i> DATE 8/25/71 CHKD. <i>W. R. L. L.</i> DATE 1/10/72 ENG. <i>W. R. L. L.</i> DATE 1/20/72 PROJ. ENG. <i>W. R. L. L.</i> DATE 2/20/72 PROD. <i>W. R. L. L.</i> DATE 4-21-72	
NEXT HIGHER ASSY.			
B-DD-KB11-Ø		SIZE CODE	
FINISH		NUMBER	
		D C S M81Ø9-Ø-1	
		RFV	
SCALE		S	
SHEET		DIST.	
3 OF 6			

SIZE	CODE	NUMBER	REV
D	CS	M8109-0-1	S



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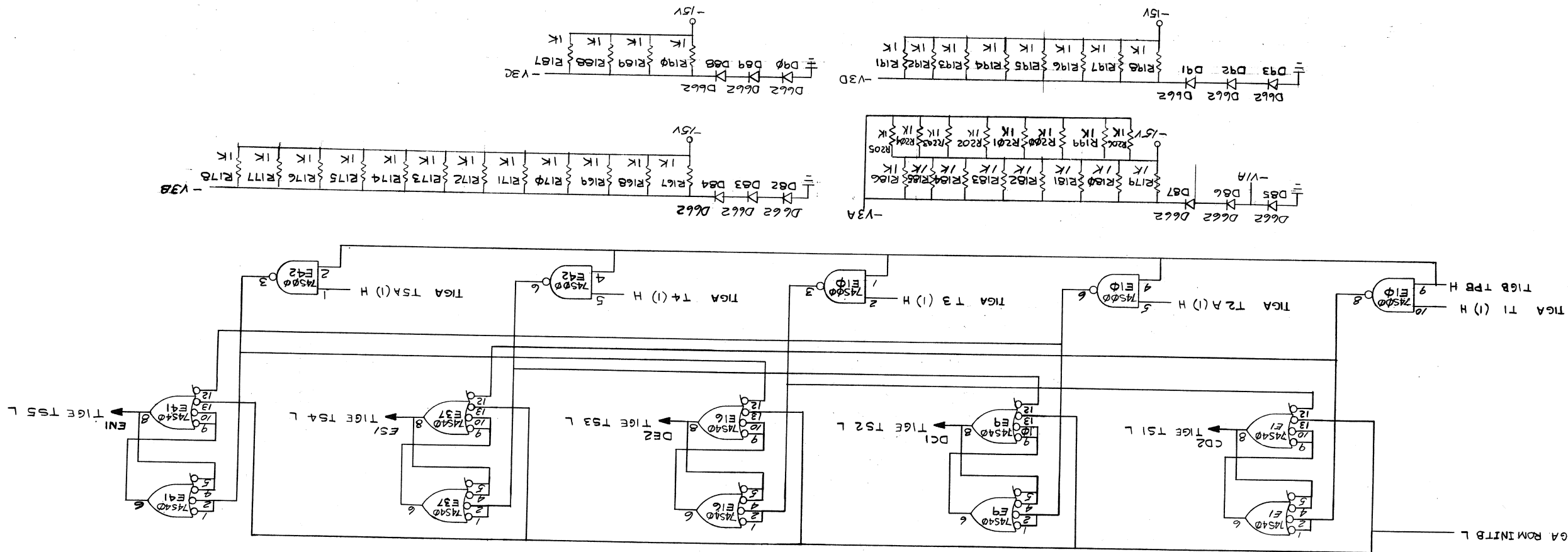


NOTE:
1. ALL NPN TRANSISTORS ARE DEC 3009B,
ALL PNP TRANSISTORS ARE DEC 425B,
ALL DIODES ARE TYPE FD777 ALL CAPACITORS
ARE .22 MFD MONOLITHIC UNLESS OTHERWISE
INDICATED.

FIRST USED ON OPTION/MODEL 11/45		QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		DRN X. Davis	DATE 3-1-72	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
DECIMALS	ANGLES	CHKD R. J. Davis	DATE 4/23/72	TITLE TIMING GENERATOR (TIGD)	
.XXX = .005	± 0° 30'	ENG R. J. Davis	DATE 4/23/72	REV. IS	
.XX = .02		PRD R. J. Davis	DATE 4/23/72	SIZE CODE D C S M 8109-0-1	
X = .1		PROJ R. J. Davis	DATE 4-21-72	NUMBER OF 6	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		NEXT HIGHER ASSY. B-DD-KB11-0			
MATERIAL FINISH		SCALE SHEET 5 OF 6			
		DIST.			

BRUNING 40-522 15840
DEC FORM NO
DRD 102-B

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TIMING STATE DRIVERS		FIRST USED ON OPTION/MODEL		QTY.		DESCRIPTION		PARTS LIST		DATE	
11/45											
UNLESS OTHERWISE SPECIFIED		DIN		C.R. (C.R. 100)		ENG		DATE		8-25/71	
TOLERANCES		ANGLES		CHAMF.		DATE		DATE		1/20/72	
DIMENSION IN INCHES.											
DECIMALS											
±.005		±.010		±.015		±.020					
X.XX = .005		X.X = .010		X.XX = .015		X.XX = .020					
REMOVE BURRS AND BREAK SHARP		CORNERS SURFACE QUALITY		PROO.		DATE		DATE		1-21-72	
MATERIAL		NEXT HIGHER ASSY.		B-DD-KB1-I-0		SCALE		SHEET 6 OF 6		DIST.	
FINISH										CS	
REV.		NUMBER		M8089-0-1		S					
(TIG)											
TIMING GENERATOR		TITLE		digital		MAYNARD MACHINISTS					
EQUIPMENT CORPORATION											