

FIELD MAINTENANCE PRINT SET

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D-CS-H325-0-1	H325 TEST CONNECTOR
D-UA-BC05L-0-0	BC05L ASSEMBLY E/M DRAWING

VARIATIONS
COVERED BY THIS
PRINT SET

Field Maintenance
Print Set

Digital Equipment
Corporation

Print Set Part Number MP- 01793

REVISION HISTORY	DATE			
	ECC NUMBER			
	REV			
DRN. 3D ENG		DATE FEB 84	TITLE digital	
CHK'D. P DAMPIER		DATE	DHV11	
DES. ENG. T HOLMES		DATE	FIELD MAINTENANCE PRINT SET	
RESP. ENG. M. CHAMBERLAIN		DATE 8 Feb 84	DOCUMENT NUMBER	
FIELD SERVICE I LOUGHLIN		DATE	SIZE B	CODE TC
TOP DOC. NO. B-TC-DHV11-0		NUMBER DHV11-0		
		REV B		
		SHEET 1 OF 1		

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B-DD-DHV11-0-0
B-PL-DHV11-0-0
B-DD-M3104-0-0

VARIATIONS

[illegible]

REVISION HISTORY		
DATE	ECO NUMBER	REV.
2/84	CK-DHV11-RY001	B

DRN. 3D ENG.	DATE 8/83	TITLE DHV11 ASYNC MUX			
CHK'D P. DAMPIER <i>P. Damper</i>	DATE 16/8/83				
DES. ENG. T. HOLMES <i>T. Holmes</i>	DATE 16/8/83	DOCUMENT NUMBER			
RESP. ENG. M. CHAMBERLAIN <i>M. S. Chamberlain</i>	DATE 16/8/83	SIZE B	CODE DD	NUMBER DHV11-0-0	REV. B
MFG. ENG. P. TOOMEY <i>P. Toomey</i>	DATE 16/8/83	SHEET 1 OF 1			

AUTOMATED BY PRTLST.4Q(50)

P A R T S L I S T

SHEET A1 OF A3

LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
				VARIATION REVISION LEVEL:	00	
1	1	D-MD-5015587-0-0	5015587-01	DRILL AND ETCH CUT BOARD	1	C1
2	2		1000021-00	220.0 MMF 100V 5%200PPM MICA	1	C8,C9
3	3		1000042-00	1000.0 MMF 100V 5%200PPM MICA	2	C4
4	4		1010978-36	.1 MFD 50V 10% CER	1	C2,C10
5	5		1011683-00	.022 MFD 50V 10% CER	2	C11,C12,C43,C44
6	6		1012084-01	8 MFD 25V +75-10% AL EL	4	C3,C14-C16,C18-C42,C45-C58
7	7		1012784-00	.047 MFD 50V +80-20% CER	43	C5-C7
8	8		1014052-00	100 MFD 25V+100-10% AL EL	3	D1
9	9		1100100-00	PIV= 25 IO=100 MA -50NS	1	D2
10	10		1112594-00	*** THIS ITEM IS NOT USED ***	-	J1,J2
11	11		1114384-00	LED 105MW 35MA GREEN	1	
12	12		1209941-02	PCB,HEADER 40PIN(2X20).100CC 90D	2	
13	13		1209941-03	PCB,HEADER LATCH	2	
14	14		1209941-04	PCB,HEADER LATCH	2	
15	15		1210929-06	FUSE, SUB-MINI, 2.000A, 125V, A	1	F1
16	16		1211164-04	SW,DIP 08POS/1FST 5VDC100MA F	2	E43,E58
17	17		1213113-01	HANDLE,MODULE,	1	
18	18		1215006-08	SKT,IC 40PIN DIP TIN SOLD	2	XE49,XE111
19	19		1300295-00	330.0 .25 W 5.0 % CF	2	R9,R24
20	20		1300316-00	470.0 .25 W 5.0 % CF	2	R7,R8
21	21		1300365-00	1.0 K .25 W 5.0 % CF	5	R1-R4,R17
22	22		1300479-00	10.0 K .25 W 5.0 % CF	1	R13
23	23		1301423-00	6.80 K .25 W 5.0 % CF	1	R11
24	24		1301969-00	22.0 .25 W 5.0 % CF	1	R15
25	25		1302388-00	2.0 K .25 W 5.0 % CF	1	R22
26	26		1302391-00	20.0 K .25 W 5.0 % CF	1	R21
27	27		1302394-00	30.0 K .25 W 5.0 % CF	1	R12
28	28		1302466-00	100.0 K .25 W 5.0 % CF	1	R19
29	29		1303312-00	10.0 K .25 W 1.0 % RN55D-F10	1	R18
30	30		1311003-02	R NETWORK 14-330 14-680 16PIN	1	E1

REVISION HISTORY		BASIC PART NO: M3104		DRN: RITA BUREAU		DATE: 16-JUN-83		D I G I T A L	
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D:	BRIAN GOOD	DATE:	16-JUN-83	TITLE	PARTS LIST
---	INITIAL	A	SECTION VARIATION INDEX	DES.ENG:	M. CHAMBERLAIN	DATE:	16-JUN-83	DOCUMENT NUMBER	
BJG	M3104-RY001	B	[A] 00	RESP.ENG.:	M. CHAMBERLAIN	DATE:	16-JUN-83	SIZE	CODE
			[B]	MFG.ENG.:	P. TOOMEY	DATE:	16-JUN-83	NUMBER	REV
			[C]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:	EDIT #
			[D]	D-UA-M3104-0-0		B-DD-M3104-0-0		Z7498B.PLS	3
			[E]						
			[F]						
			[G]						
			[H]						
			[I]						
			[J]						
			[K]						
			[L]						
			[M]						
			[N]						

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LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
					VARIATION REVISION LEVEL:		
31	31		1311522-00		200.0 .25 W 5.0 % CF	1	R6
32	32		1313349-00		33.0 K .25 W 5.0 % CF	1	R23
33	33		1313597-00		23.70 K .25 W 1.0 % RN55D-F10	1	R20
34	34		1316334-02		*** THIS ITEM IS NOT USED ***	-	
35	35		1319470-12		82.0 1.0 W 5.0 % M.OXIDE	1	R16
36	36		1321442-01		R NETWORK 9-26K 2.0 % 10PIN S	5	Z1,Z3-Z6
37	37		1321509-01		.39 1.0 W 5.0 % WW	1	R14
38	38		1510414-00		D 45C6 PNF 30WT SI 45 20 Y	1	Q1
39	39		1621443-01		55.0 MH 2.2A INDUCTOR	1	L1
40	40		1811660-21		OSCILLATOR, XTAL 24.000 MHZ	1	Y1
41	41		1811660-52		OSCILLATOR, XTAL 3.6864 MHZ	1	Y2
42	42		1910532-00		74S00 NAND GATE-QUAD 2IN	2	E11,E82
43	43		1910534-00		74S04 INVERTER GATE-HEX 1I	1	E78
44	44		1910544-00		74S74 FF-D DUAL,EDGE TRIGG	2	E7,E28
45	45		1910544-01		74S74-60GG-D DUAL,EDGE TRIG	2	E9,E73
46	46		1910547-00		74S153 MUX 1 OF 4 (DUAL)	1	E69
47	47		1911579-01		8641-1 TRANSCEIVER,BUS,QUA	1	E3
48	48		1911675-00		74S138 DECODER/DEMUX 3-8 LI	2	E37,E95
49	49		1911676-00		74S139 DECODER-DUAL TWO-INP	1	E77
50	50		1912729-00	DC	004 PROTOCOL,REG. SELECT	1	E21
51	51		1912730-00	DC	003 INTERRUPT,2 CIRCUIT	1	E2
52	52		1912799-00		LS00 NAND-GATE-QUAD 2IN,P	8	E22,E26,E29,E35,E63,E75,E79,E81
53	53		1912801-00		LS02 NOR-GATE-QUAD 2IN	4	E4,E5,E91,E101
54	54		1912803-00		LS04 INVERTER GATE,HEX	4	E24,E34,E88,E97
55	55		1912807-00		LS10 NAND GATE-TRIPLE 3IN	1	E25
56	56		1912813-00		LS27 NOR GATE-TRIPLE 3IN	1	E68
57	57		1912824-00		LS74 FF-D DUAL,EDGE TRIGG	7	E6,E8,E61,E62,E71,E90,E96
58	58		1912853-00		LS175 FF-D QUAD	2	E36,E92
59	59		1912865-00		LS283 ADDER-4BIT BINARY FU	1	E67
60	60		1913040-00	DC	005 TRANSCEIVER 4BIT	6	E19,E40,E41,E55-E57
61	61		1913414-00		LS14 INVERTER GATE-HEX SC	1	E23
62	62		1913671-51		74S374 FF-D,OCTAL,TRI STATE	1	E70
63	63		1914038-00	DC	010 BIPOLAR,MEM ADRESS,L	1	E20
64	64		1914082-00		74S163 COUNTER,SYNCH UP/DOW	4	E10,E27,E72,E76
65	65		1914214-00		LS374 FF-D OCTAL EDGE TRIG	15	E42,E44-E46,E59,E60,E65,E80,E93,
							CONT E94,E106,E108,E122,E128,E129
66	66		1914451-00		LS393 COUNTER,BINARY,4BIT	3	E89,E103,E105
67	67		1915193-00		LS244 DRIVER,LINE,OCTAL,T	1	E127
68	68		1915415-00		9636 DRIVER,DUAL,EIA RS-	12	E13,E14,E31,E32,E39,E53,E99,
							CONT E100,E114,E119,E132,E133
69	69		1915416-00		9637 RECEIVER,DUAL,RS-42	20	E15-E18,E30,E33,E38,E51,E52,E54,
							CONT E86,E87,E113,E115-E118,E120,
							CONT E130,E131
70	70		1915932-00		LS125 BUFFER,QUAD BUS	5	E83,E84,E98,E102,E121
71	71		1919189-00		COMPARATOR,8-BIT BIP	1	E104
72	72		1920853-01		LS646 BUS TRANSCEIVER/REGI	4	E47,E48,E109,E110
73	73		1921592-01	TL	494 MODULATOR,PULSE WIDT	1	E66
74	74		1921621-01		74ALS573 TRANSPARENT D-TYPE L	1	E107

D I G I T A L		TITLE	DHV11 ASYNC MUX	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
					K	PL	M3104-0-DBP	B

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P A R T S L I S T

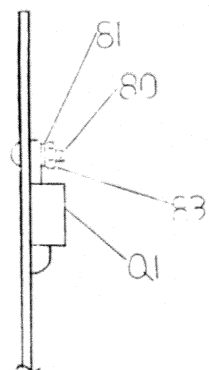
SHEET A3 OF A3

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
75	75		2114212-00	P	2114-2 RAM,1024X4,STATIC	4	E123-E126
76	76		2120068-01		2681 REC./TRANS.,ASYNC.,D	4	E12,E50,E85,E112
77	77		23013M1-00		*** THIS ITEM IS NOT USED ***	-	
78	78		23014M1-00		*** THIS ITEM IS NOT USED ***	-	
79	79		9000024-01		EYELET,ROLLED 0.1210DX0.192	8	
80	80		9006010-01		SCREW,MACH PAN PHIL 4-	1	
81	81		9006688-00		WASHER,HELICAL SPLIT SST	1	
82	82		9009185-00		JUMPER, WIRE, INSULATED, BLACK B	2	W1,W2
83	83		9009280-00		NUT,HEX 4-40X .184AF SS/N	1	
84	84		1112594-01		PIV= 200 IO= 3.00A	1	D3
85	85		1322643-01		R-NETWORK 22K 2.0 % 10PIN	2	Z2,Z7
86	86		23015M1-00		M1-01	1	E49
87	87		23016M1-00		M1-01	1	E111

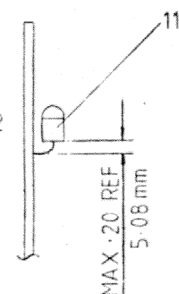
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!	! DHV11 ASYNC MUX !	!	! K !	! PL !	! M3104-0-DBP !	! B !
!	!	!	!	!	!	!

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VIEW SHOWING MOUNTING OF Q1. TORQUE ITEM 53 (NLT) TO 5 IN LB



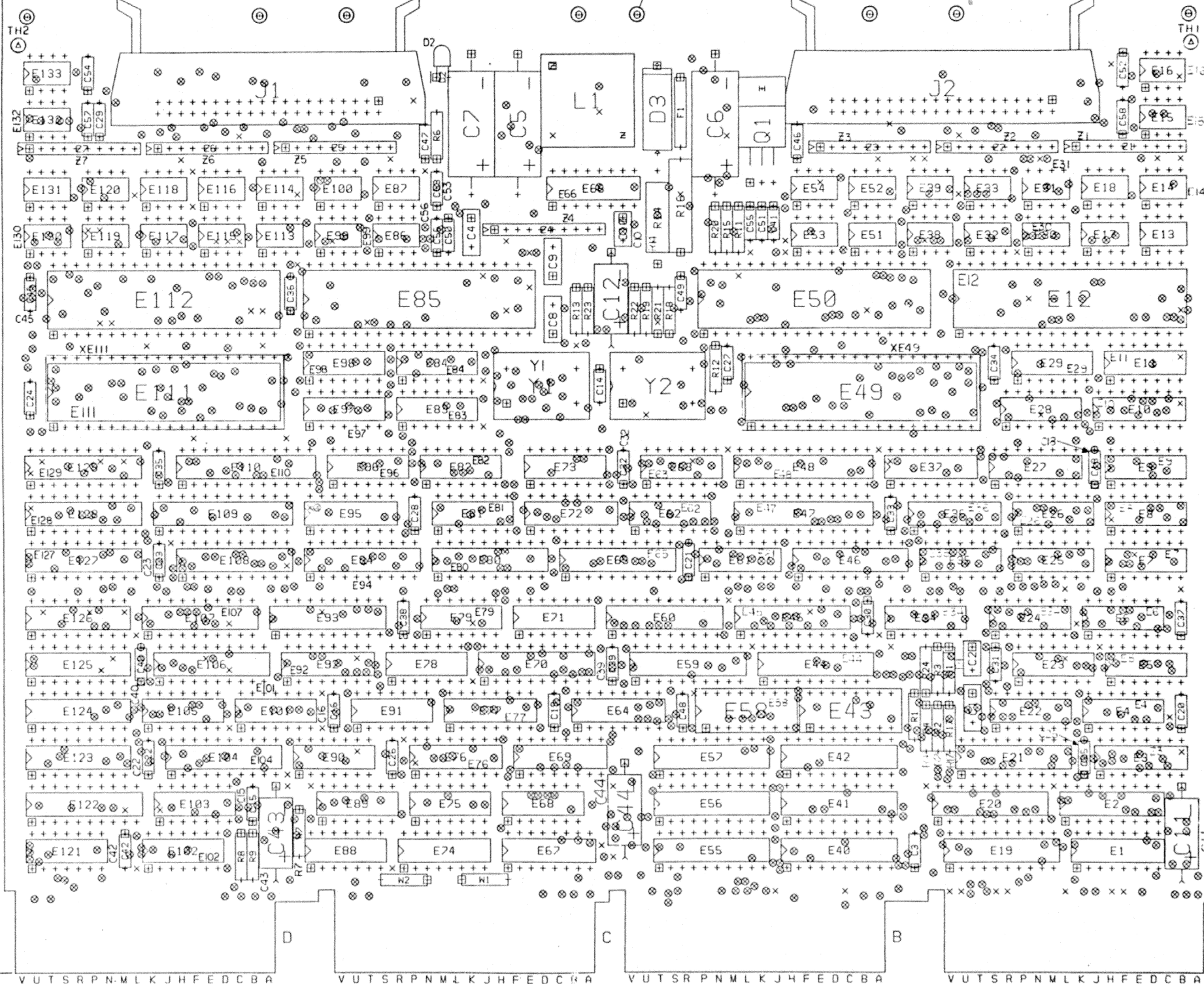
VIEW SHOWING MOUNTING OF D2



841 REF
215.61 MM.

1043 REF
264.92 MM

COMPONENT SIDE VIEW



NOTES: Y1 AND Y2 TO BE ASSEMBLED TO MODULE AFTER A.T.E. TESTING
E64 AND E74 ARE SPARE LOCATIONS

STEP	Y AXIS	STEP	TIMES
REPEAT	X AXIS	STEP	TIMES

CHANGE NO REV
BIG M3104-0-001 B

ETCH REV. 41

SIGNATURES		DATE	digital
DRN.	<i>Forrest Rhodes</i>	4/18/74	
CHK'D.	<i>Jim L. Murphy</i>	4/22/74	
MECH. ENG.	<i>BS</i>	1/24/73	
PROJ. ENG.	<i>BS</i>	1/24/73	
PROD.	<i>BS</i>	1/24/73	TITLE
SCALE 2:1			DHVT ASYNC MUX
SHT. 1 OF 1	SIZE CODE	NUMBER	REV
TOP DOC NO. 03-00-M3104-0-0	0 UA	M3104-0-0	B

1 WO# 275227

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D

C

B

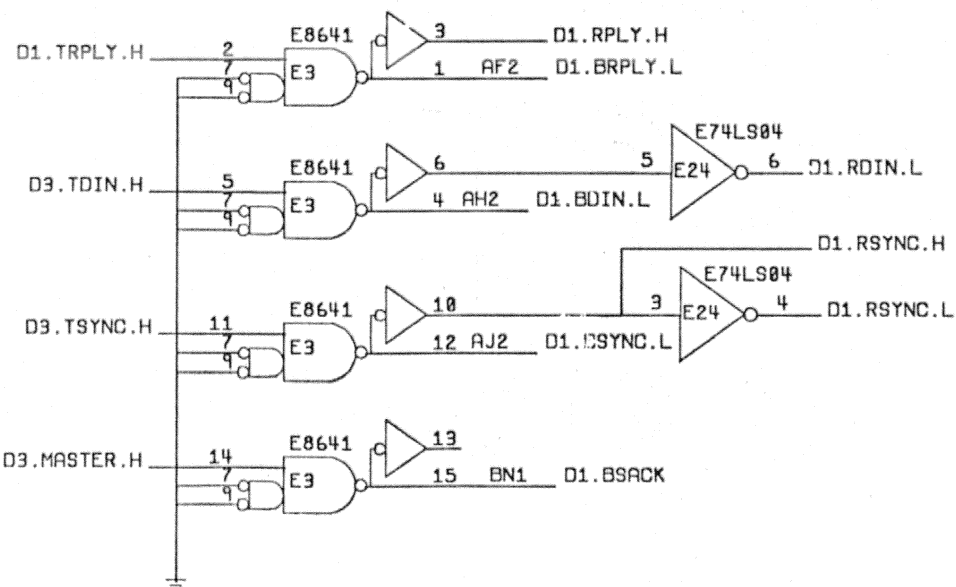
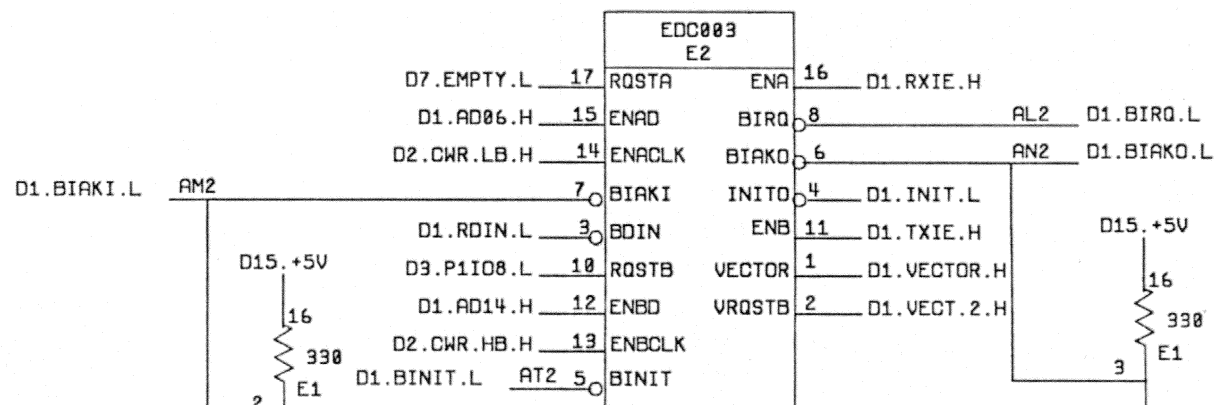
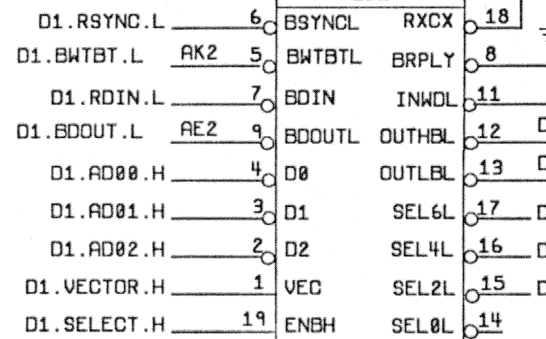
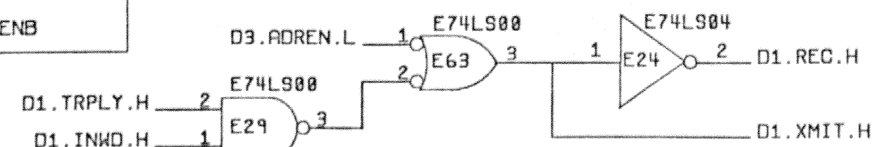
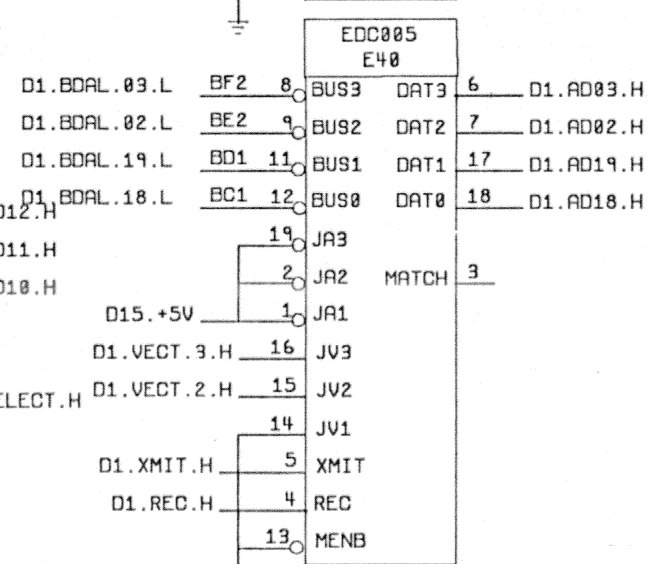
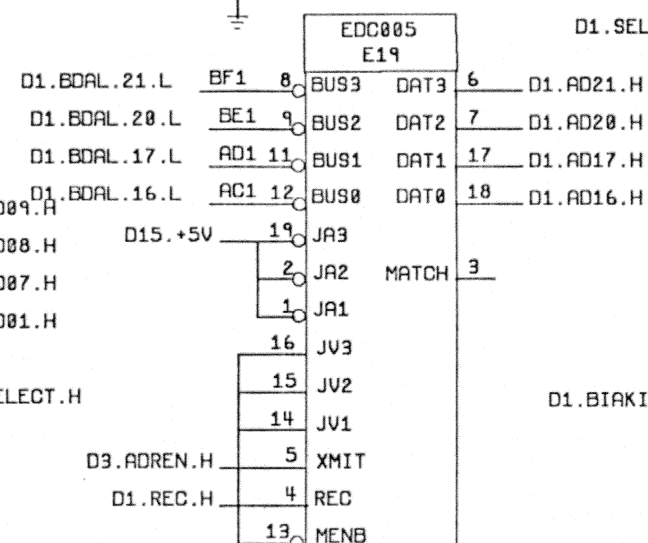
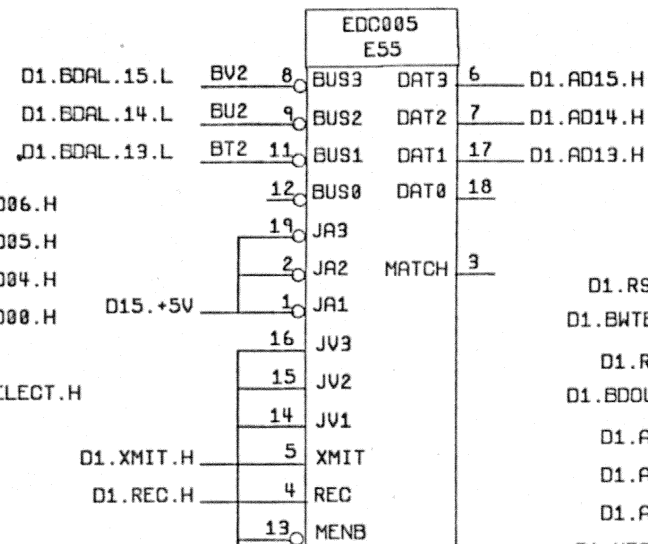
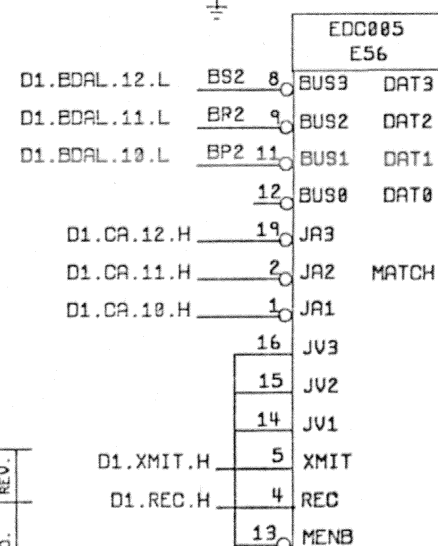
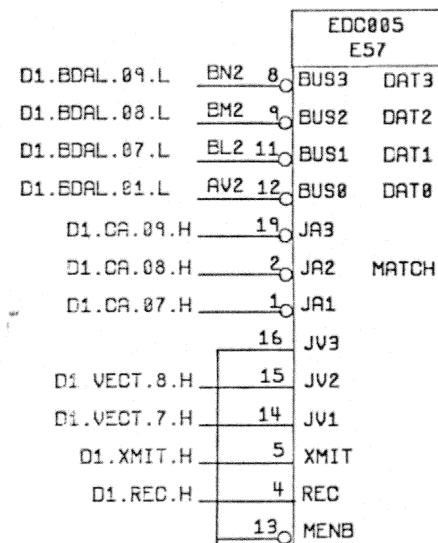
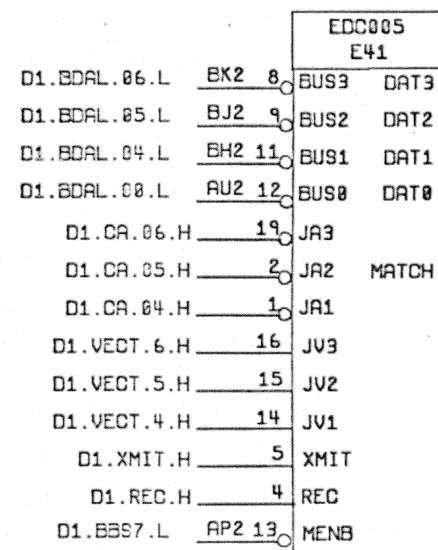
A

D

C

B

A



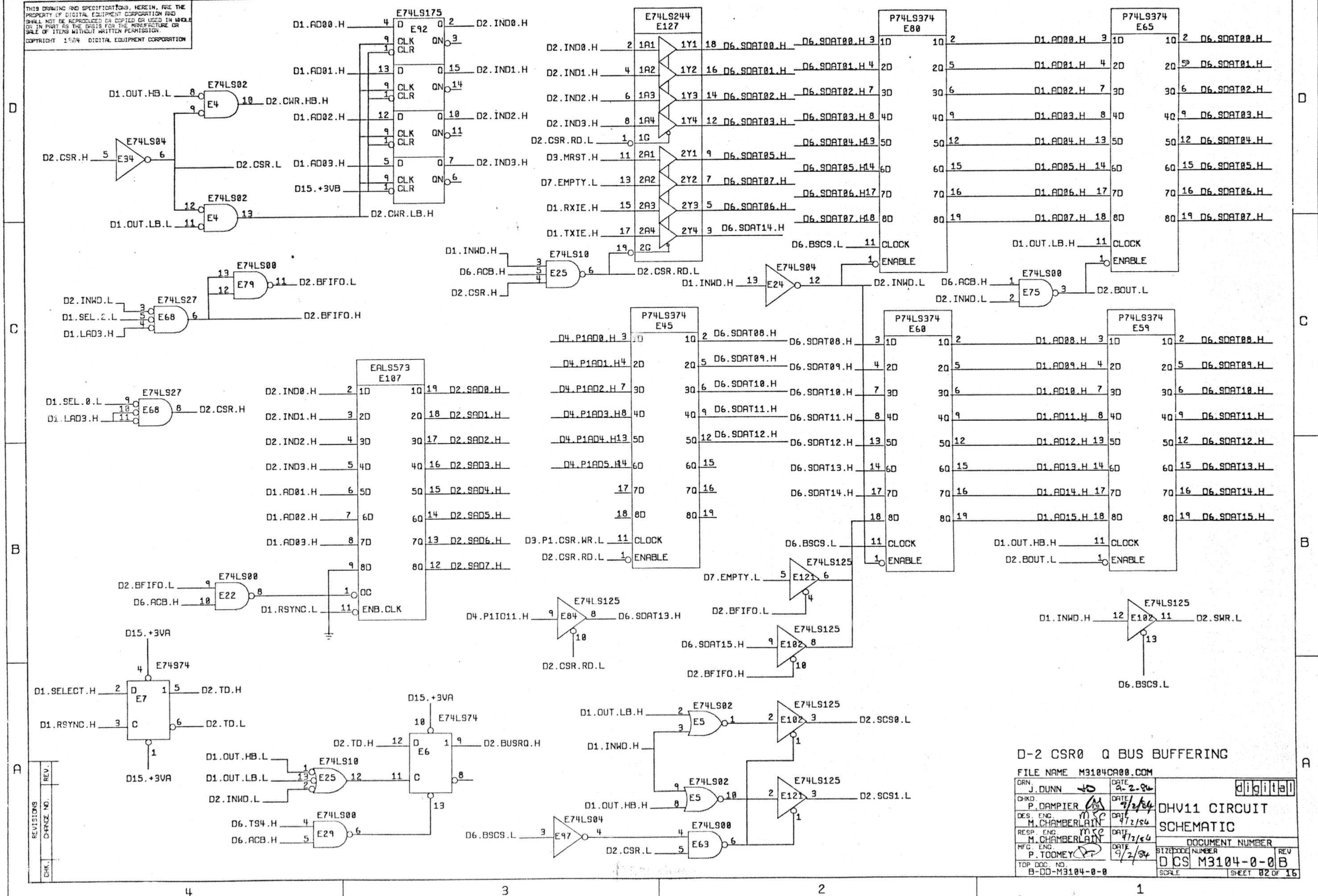
D-1 Q BUS INTERFACE

FILE NAME M3104CA00.COM

DRN	J. DUNN	DATE	9-2-84
CHKD.	P. DAMPIER	DATE	9/2/84
DES. ENG.	M. CHAMBERLAIN	DATE	9/2/84
RESP. ENG.	M. CHAMBERLAIN	DATE	9/2/84
MFG. ENG.	P. TOOMEY	DATE	9/2/84
TOP DOC. NO.	B-DD-M3104-0-0		

DHV11 CIRCUIT SCHEMATIC	
DOCUMENT NUMBER	D CS M3104-0-0 B
SCALE	SHEET 01 OF 16

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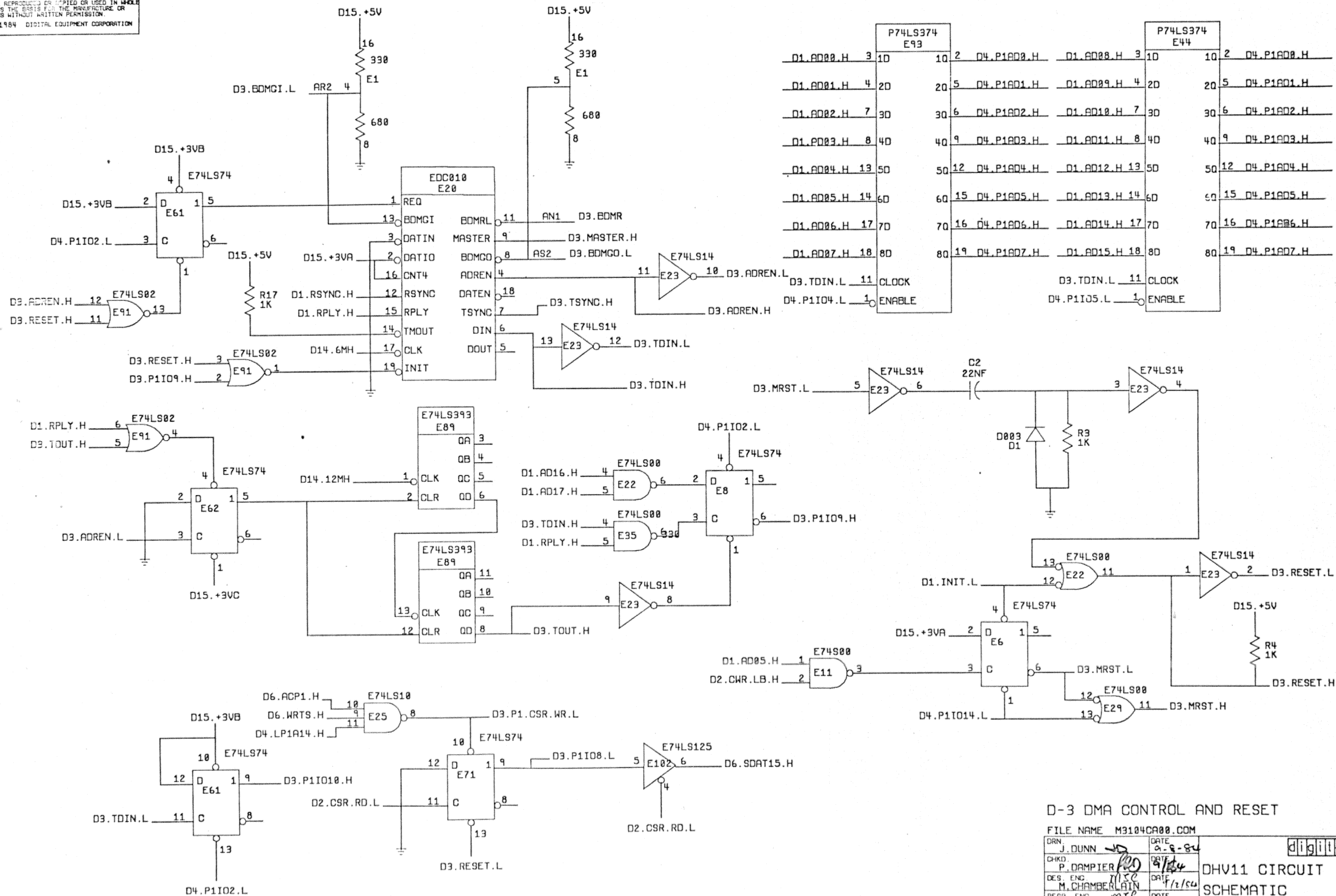
D-2 CSR0 Q BUS BUFFERING

FILE NAME M3104CA00.COM

DRN.	J. DUNN	DATE	9-2-84	digital
CHKD.	P. DAMPIER	DATE	9/2/84	
DES. ENG.	M. CHAMBERLAIN	DATE	9/2/84	DHV11 CIRCUIT SCHEMATIC
RESP. ENG.	M. CHAMBERLAIN	DATE	9/2/84	
MFG. ENG.	P. TOOMEY	DATE	9/2/84	DOCUMENT NUMBER
TOP DOC. NO.		SIZE CODE		NUMBER
B-DD-M3104-0-0		D CS		M3104-0-0 B
		SHEET		02 OF 16

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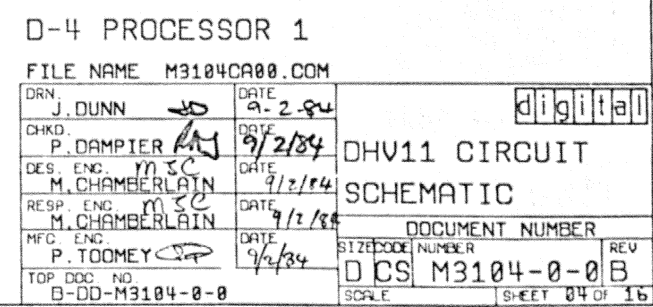


D-3 DMA CONTROL AND RESET

FILE NAME M3104CA00.COM

DRN.	J. DUNN	DATE	2-8-84	digital
CHKD.	P. DAMPIER	DATE	9/1/84	
DES. ENG.	M. CHAMBERLAIN	DATE	7/2/84	DHV11 CIRCUIT SCHEMATIC
RESP. ENG.	M. CHAMBERLAIN	DATE	9/2/84	
MFG. ENG.	P. TOOMEY	DATE	9/2/84	DOCUMENT NUMBER
TOP DOC. NO.	B-DD-M3104-0-0	SIZE	CODE	NUMBER
		D CS	M3104-0-0	REV
		SCALE		SHEET 83 OF 16

CHK.	CHANGE NO.	REV.
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D

C

B

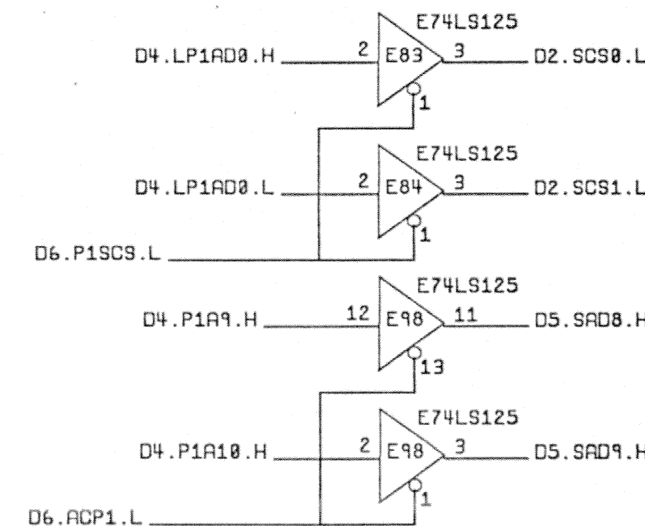
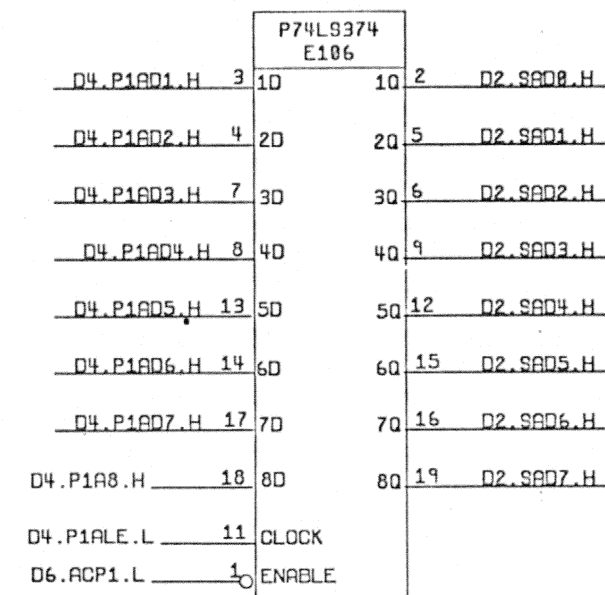
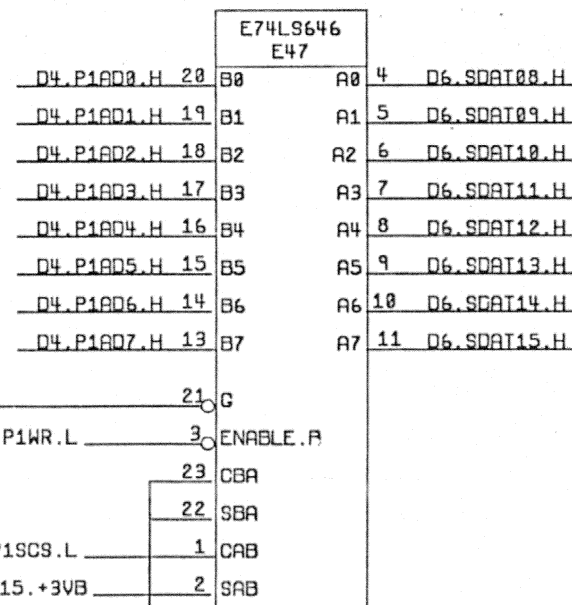
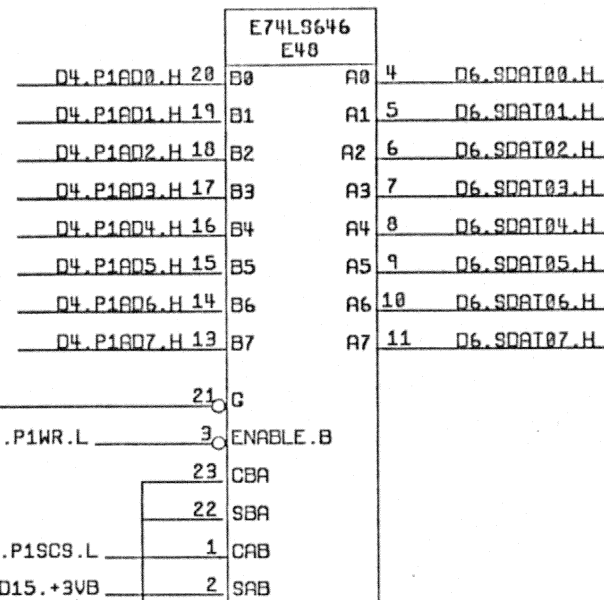
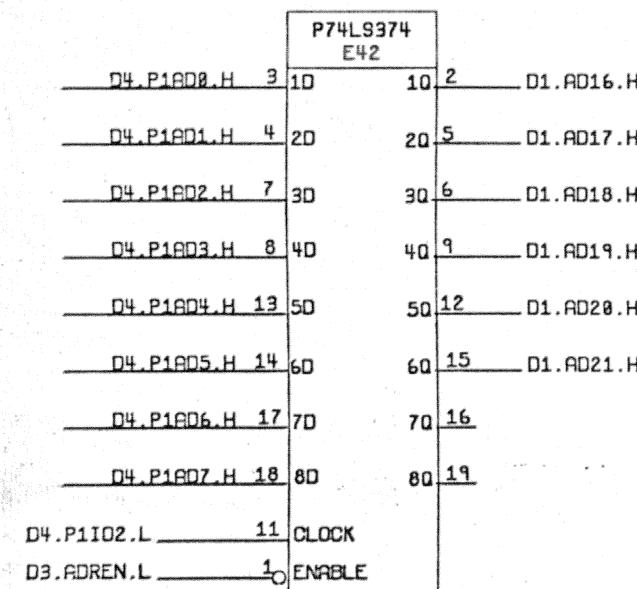
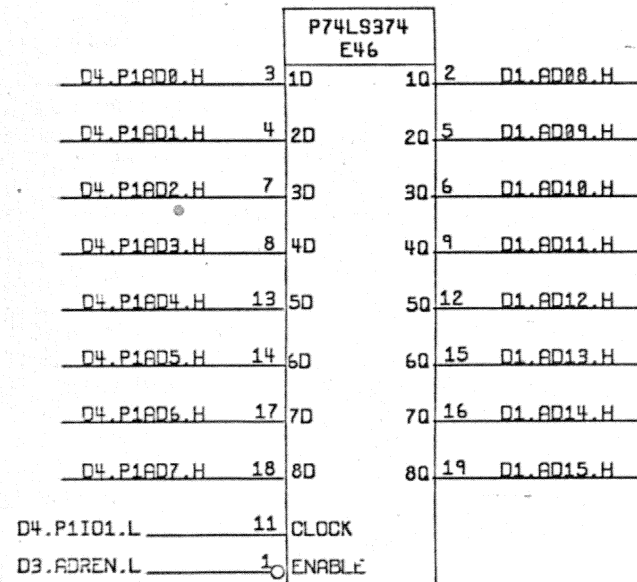
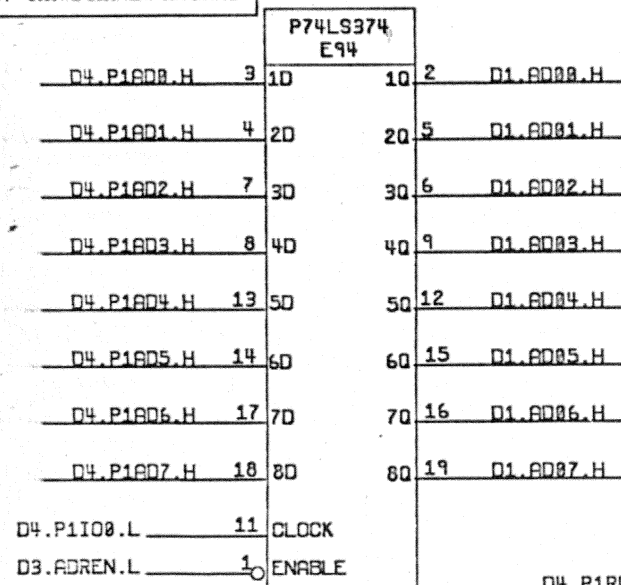
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D

C

B

A



D-5 PROCESSOR 1 BUFFERING

FILE NAME M3104CA00.COM

DRN. J. DUNN	DATE 9-8-84
CHKD. P. DAMPIER	DATE 9/2/84
DES. ENG. M. CHAMBERLAIN	DATE 7/2/84
RESP. ENG. M. CHAMBERLAIN	DATE 7/2/84
MFG. ENG. P. TOOMEY	DATE 7/2/84
TOP DOC. NO. B-DD-M3104-0-0	

digital	
DHV11 CIRCUIT SCHEMATIC	
DOCUMENT NUMBER	
SIZE CODE NUMBER	REV
D CS M3104-0-0 B	
SCALE	SHEET 05 OF 16

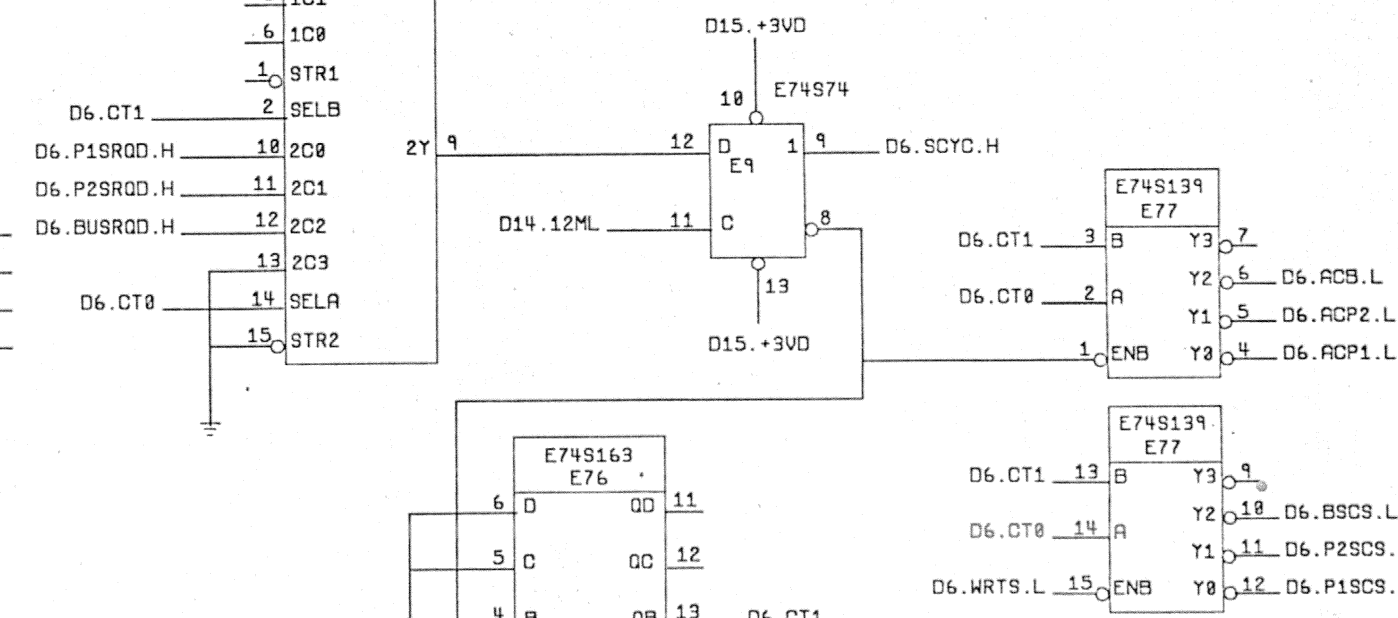
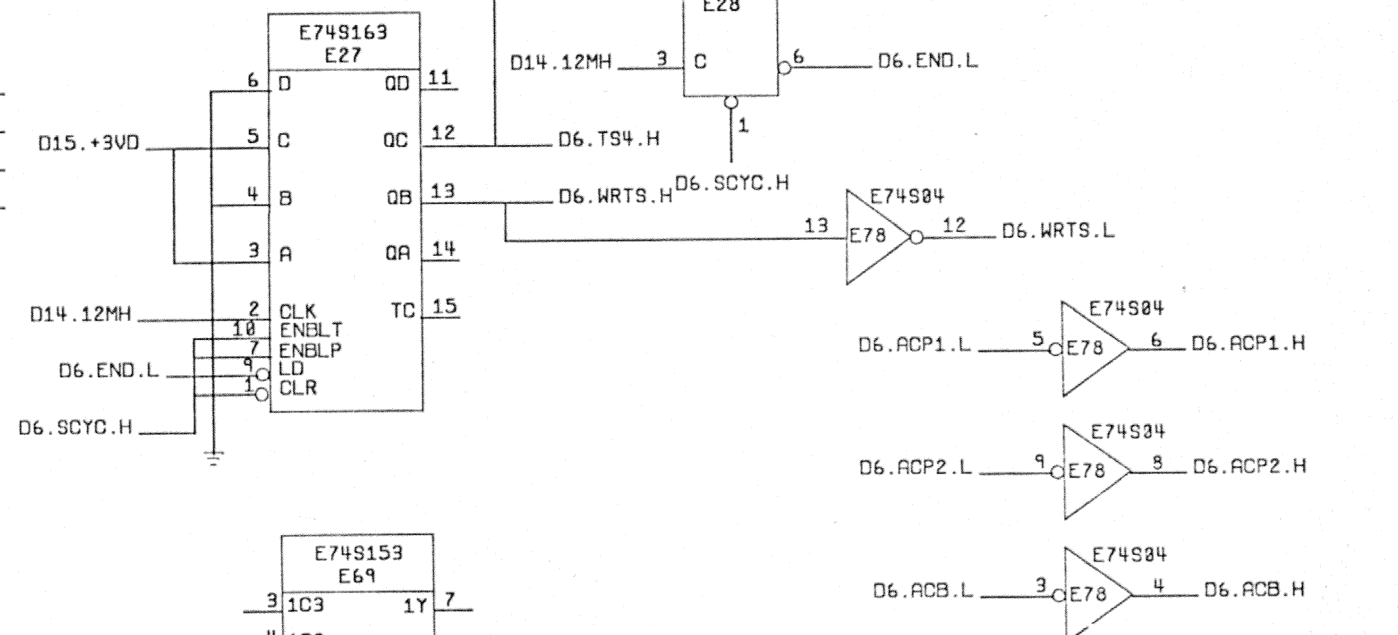
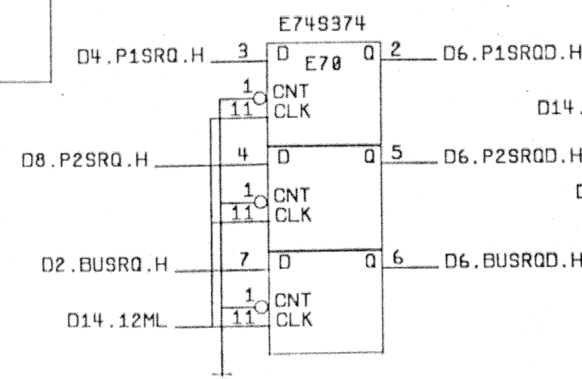
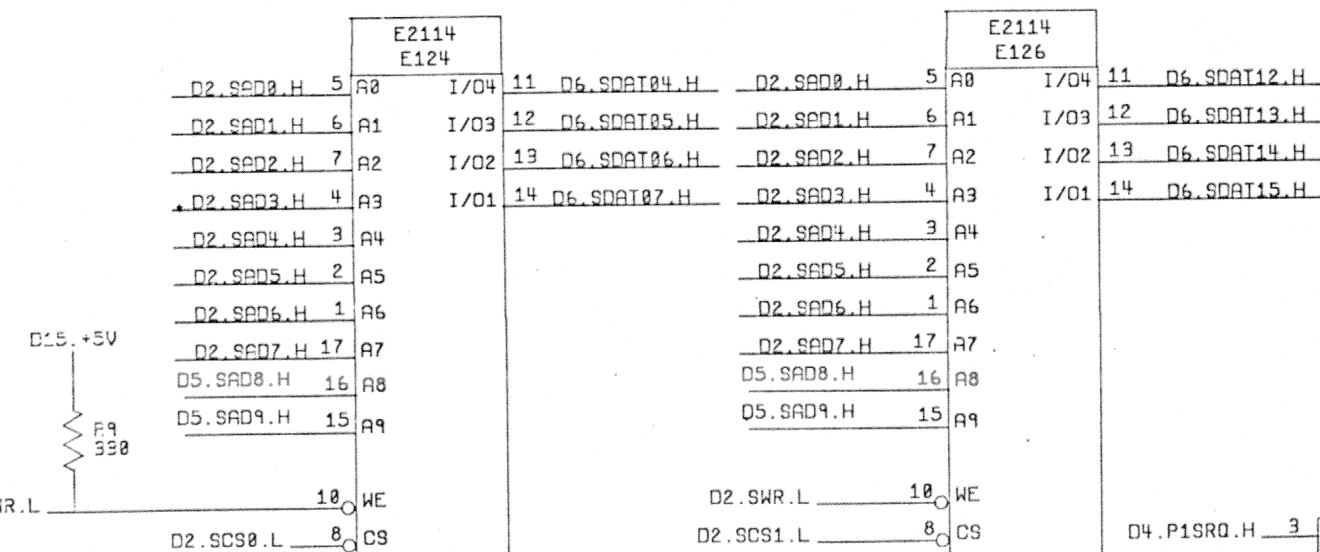
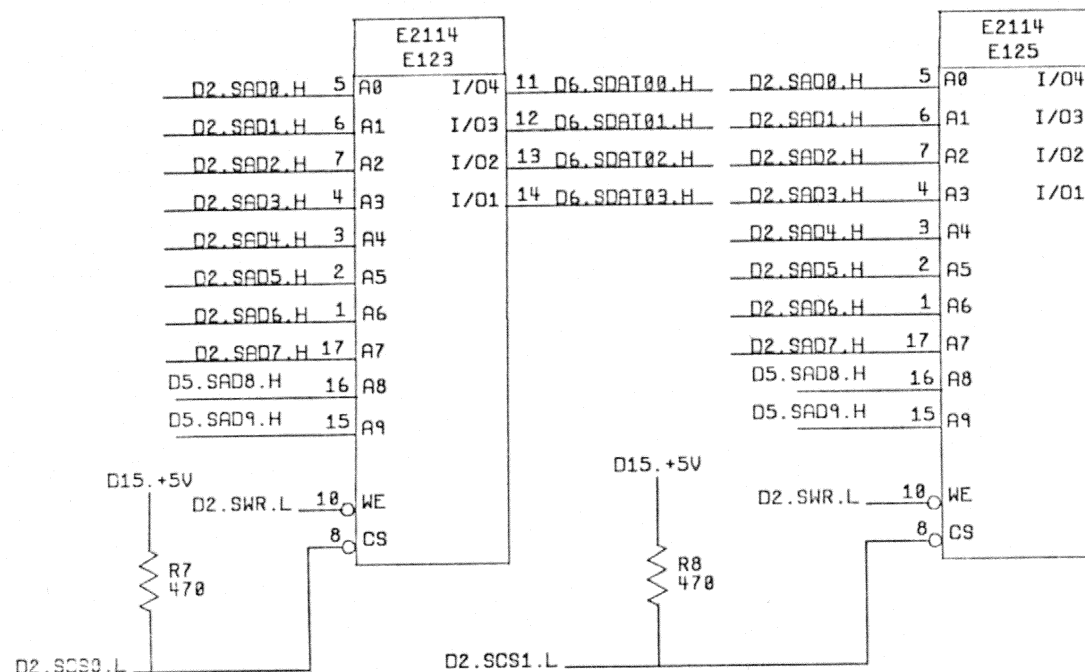
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D

C

B

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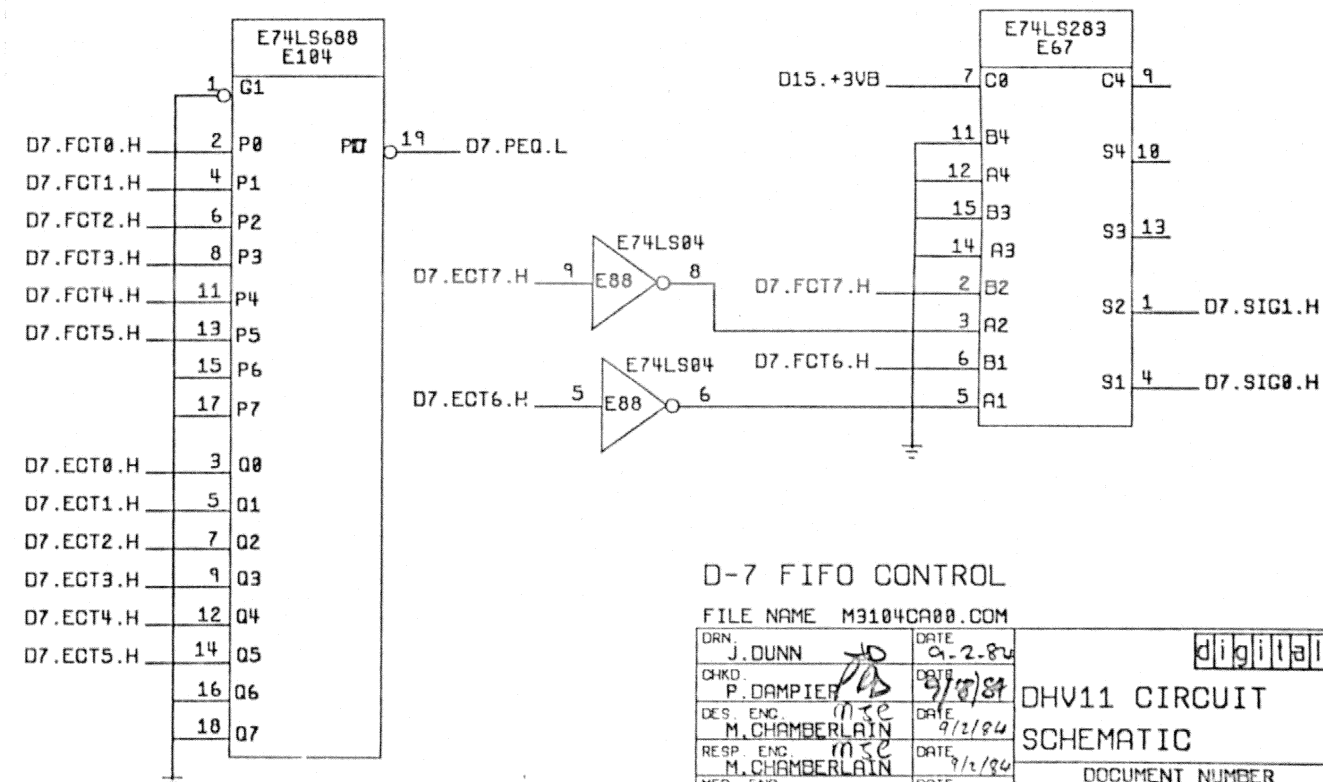
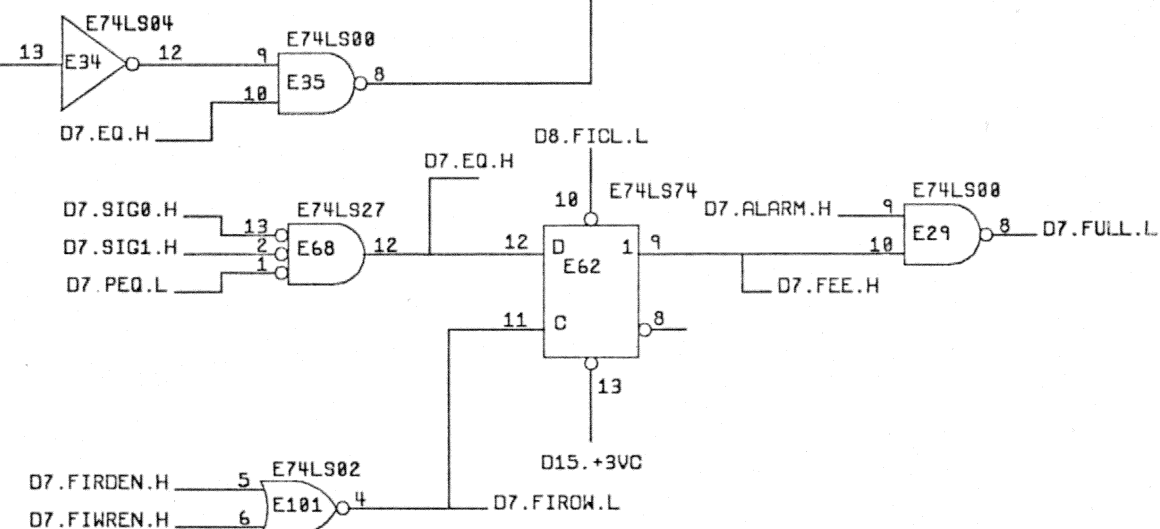
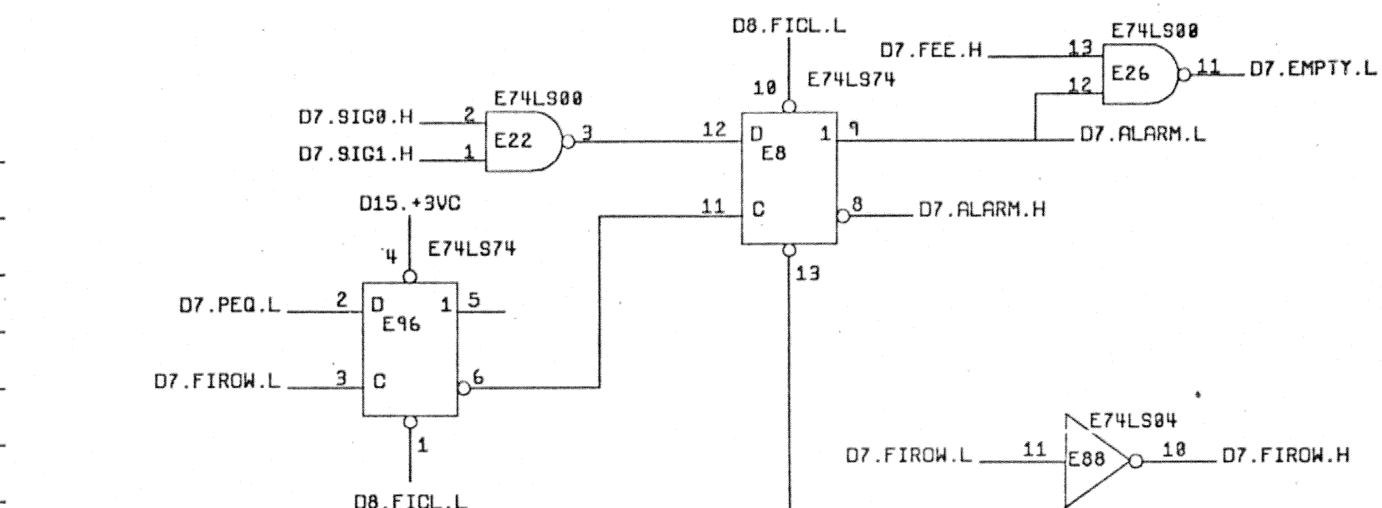
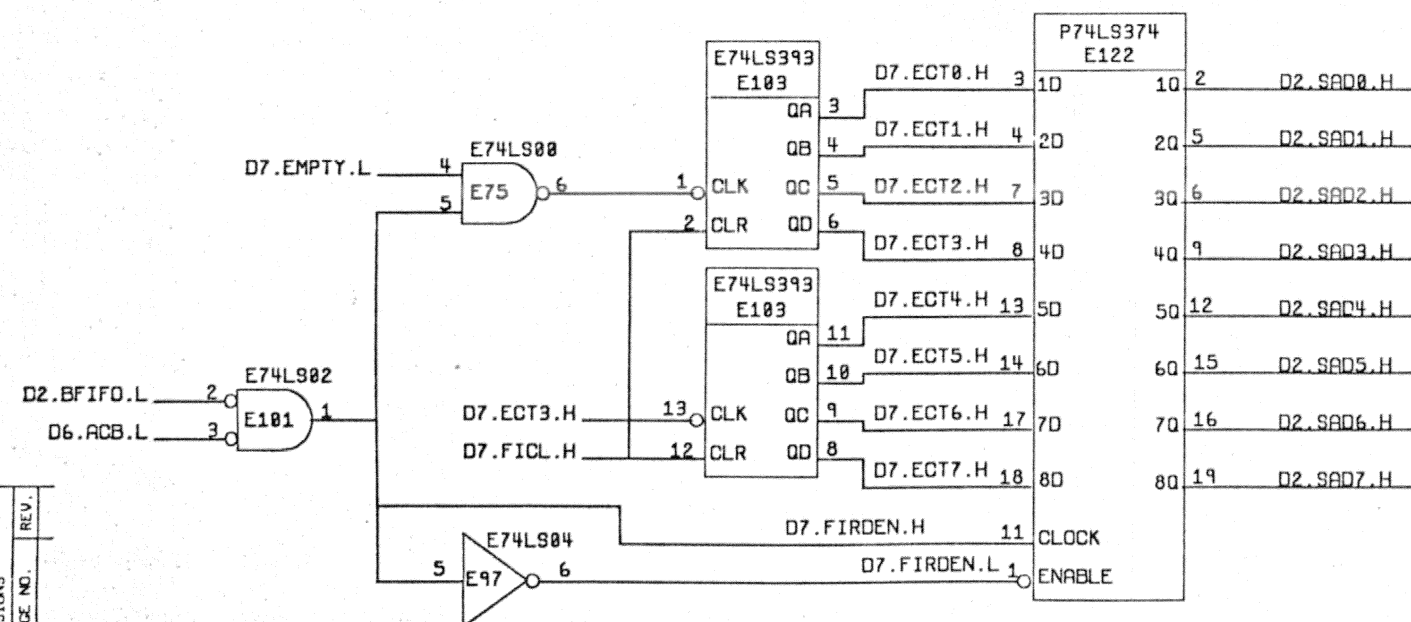
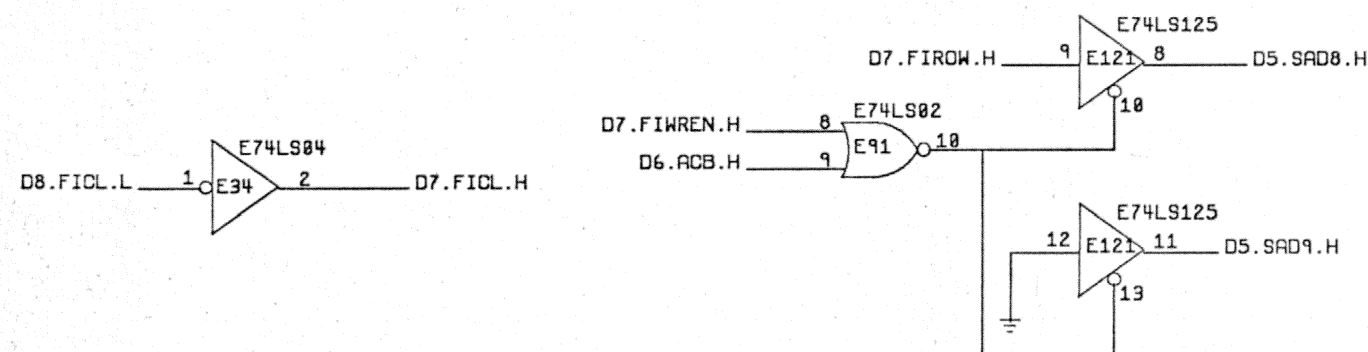
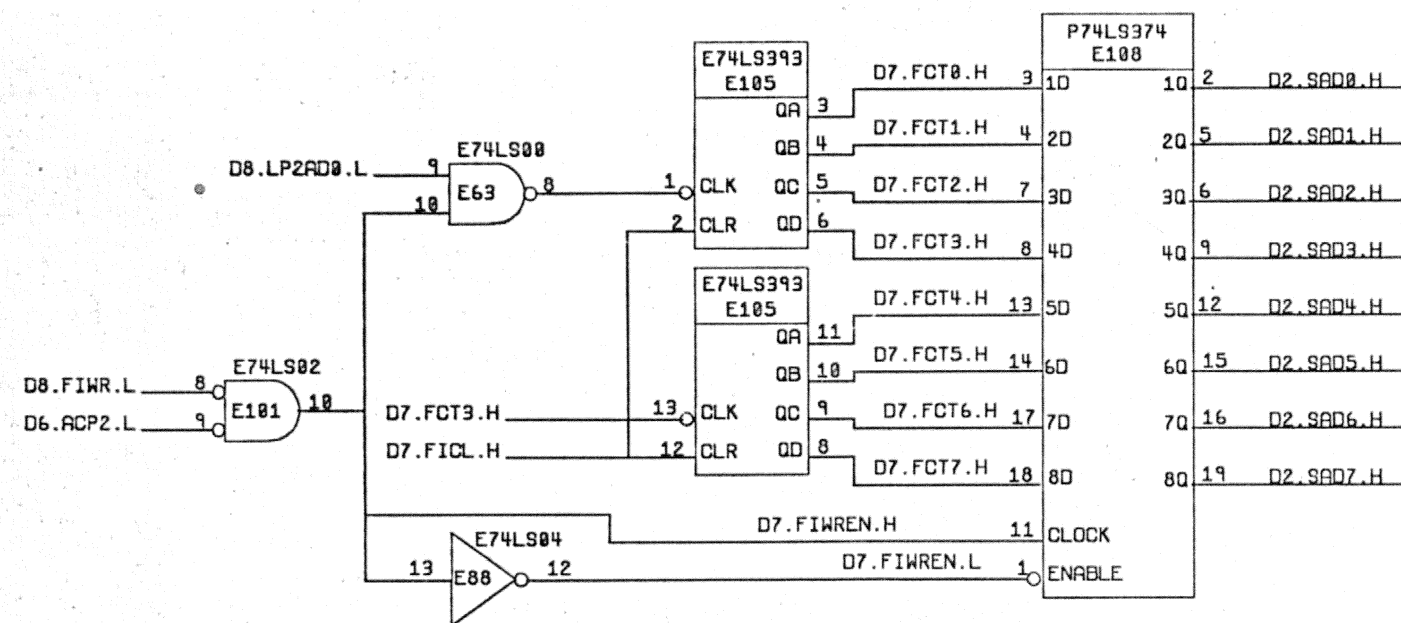
D-6 STORE ARBITRATOR

FILE NAME M3104CA00.COM

DRN	J. DUNN	DATE	9-2-84	digital			
CHKD	P. DAMPIER	DATE	9/7/84				
DES. ENG	M. CHAMBERLAIN	DATE	9/7/84				
RESP. ENG	M. CHAMBERLAIN	DATE	9/7/84				
MFG. ENG	P. TOOMEY	DATE	9/7/84				
TOP DOC NO.	B-DD-M3104-0-0	SCALE		DOCUMENT NUMBER	D CS M3104-0-0B	REV	16

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D-7 FIFO CONTROL

FILE NAME M3104CA00.COM

DRN.	DATE
DUNN	6-2-87

J. DUNN	9-2-80
CHKD.	DATE

NAME	P. DAMPIER	DATE	9/8/84
------	------------	------	--------

DES. ENG. *MSE* DATE *9/2/84*
M. CHAMBERLAIN

RESP. ENG. <i>mse</i>	DATE <i>5/1/82</i>
-----------------------	--------------------

M. CHAMBERLAIN	9/2/84
MEG ENG	DATE

REC. ENG. P. TOOMEY	DATE 9/2/84
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TOP DOC. NO.
B-DD-M3194-9-9

4 DHV11 CIRCUIT
4 SCHEMATIC

24	DOCUMENT NUMBER
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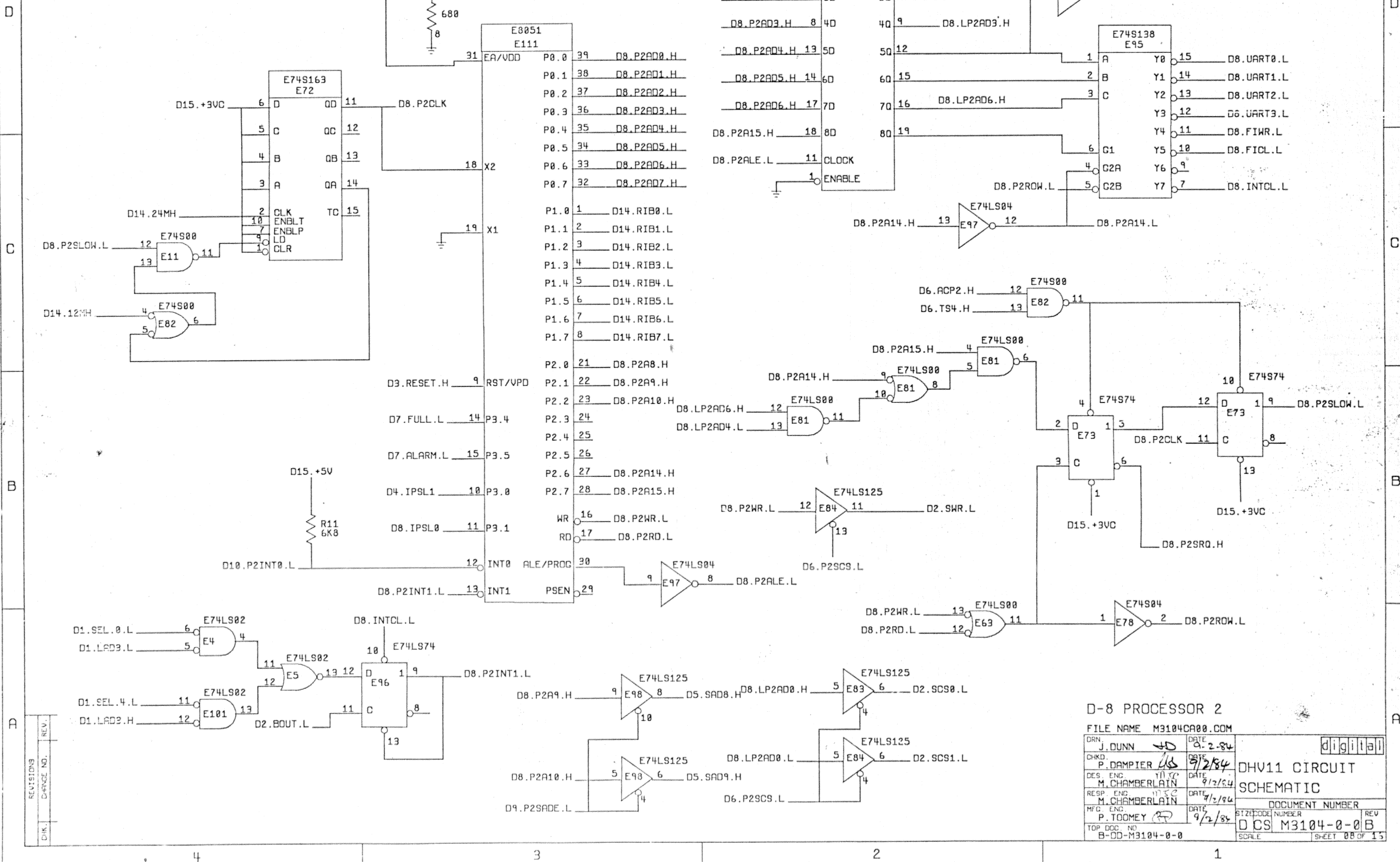
SIZE	CODE	NUMBER
D	CS	M210U 2 0

U	CS	M3104-0-0
63315		0-553-17

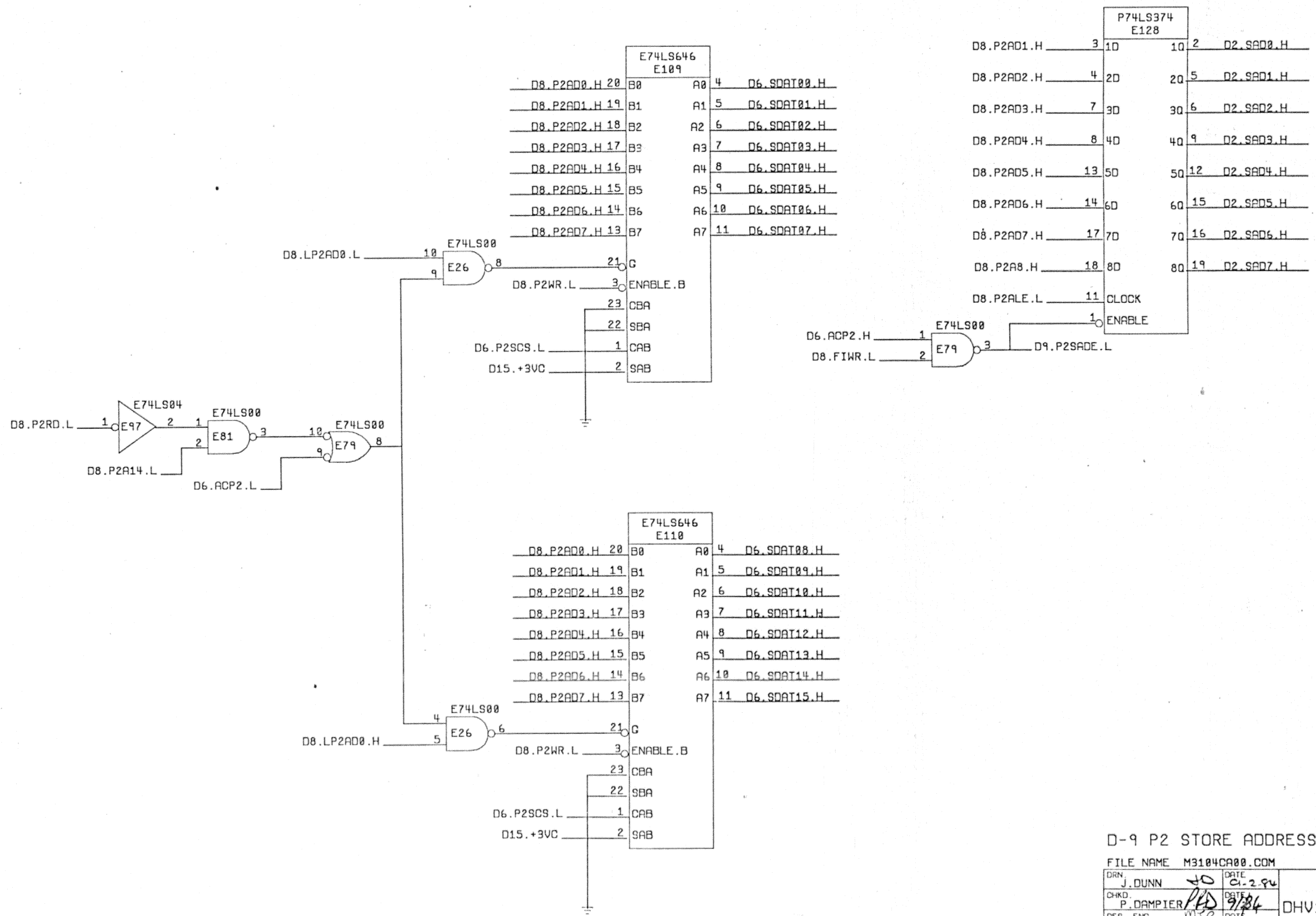
SCALE	SHEET 07
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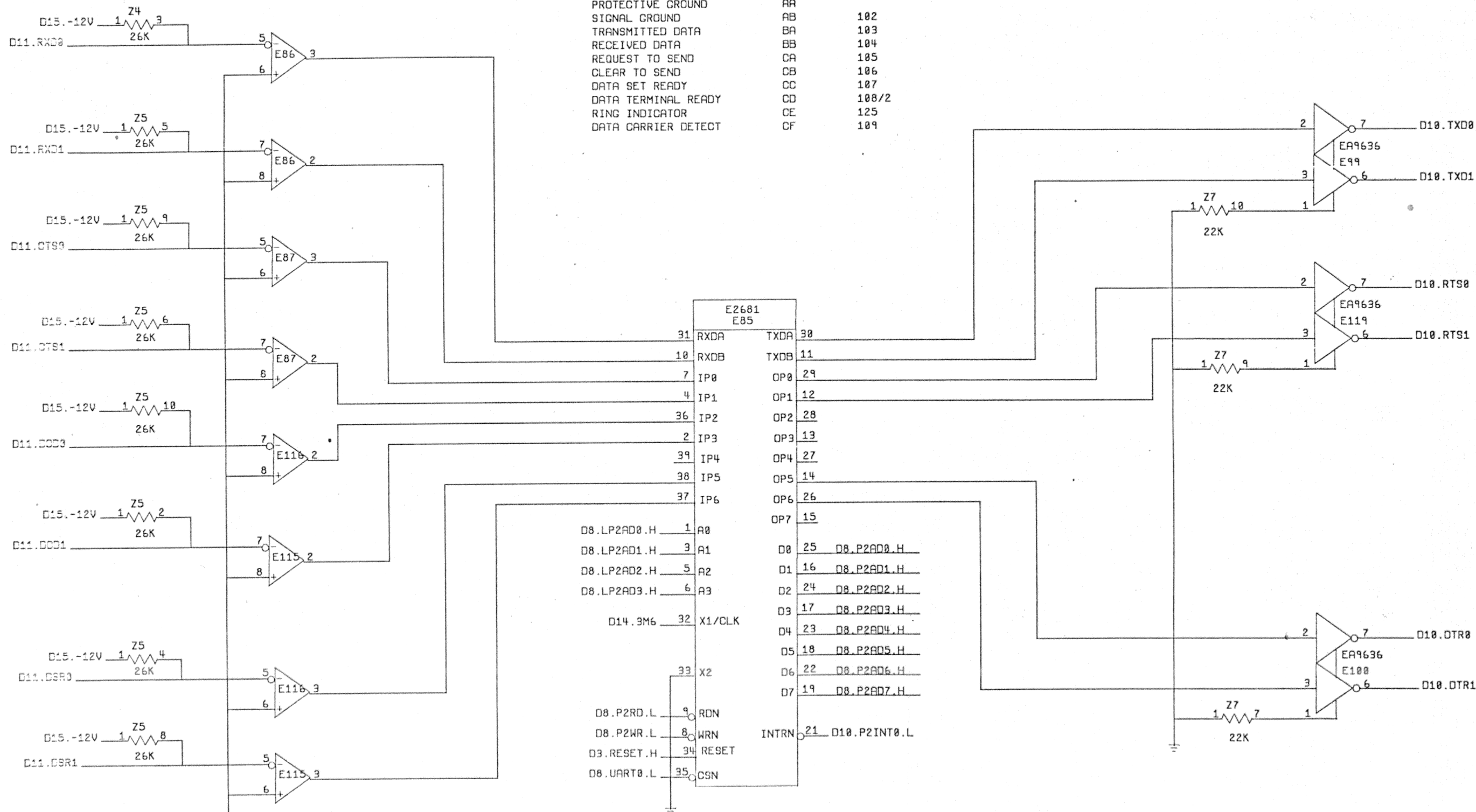
D-9 P2 STORE ADDRESS AND DATA

FILE NAME M3104CA80.COM		digital	
DRN. J. DUNN	DATE 2.2.90		
CHKD. P. DAMPIER	DATE 9/2/84		
DES. ENG. M. CHAMBERLAIN	DATE 9/2/84	DHV11 CIRCUIT SCHEMATIC	
RESP. ENG. M. CHAMBERLAIN	DATE 9/2/84	DOCUMENT NUMBER	
MFG. ENG. P. TOOMEY	DATE 9/2/84	SIZE CODE NUMBER	
TOP DOC. NO. B-DD-M3104-0-0		REV. DCS M3104-0-0B	
SCALE		SHEET 09 OF 16	

REV.	NO.	DATE

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SIGNAL NAME	RS-232-C	CCITT NO.
PROTECTIVE GROUND	AA	
SIGNAL GROUND	AB	102
TRANSMITTED DATA	BA	103
RECEIVED DATA	BB	104
REQUEST TO SEND	CA	105
CLEAR TO SEND	CB	106
DATA SET READY	CC	107
DATA TERMINAL READY	CD	108/2
RING INDICATOR	CE	125
DATA CARRIER DETECT	CF	109



D-10 SERIAL PORT 0 AND 1

FILE NAME M3104CA00.COM

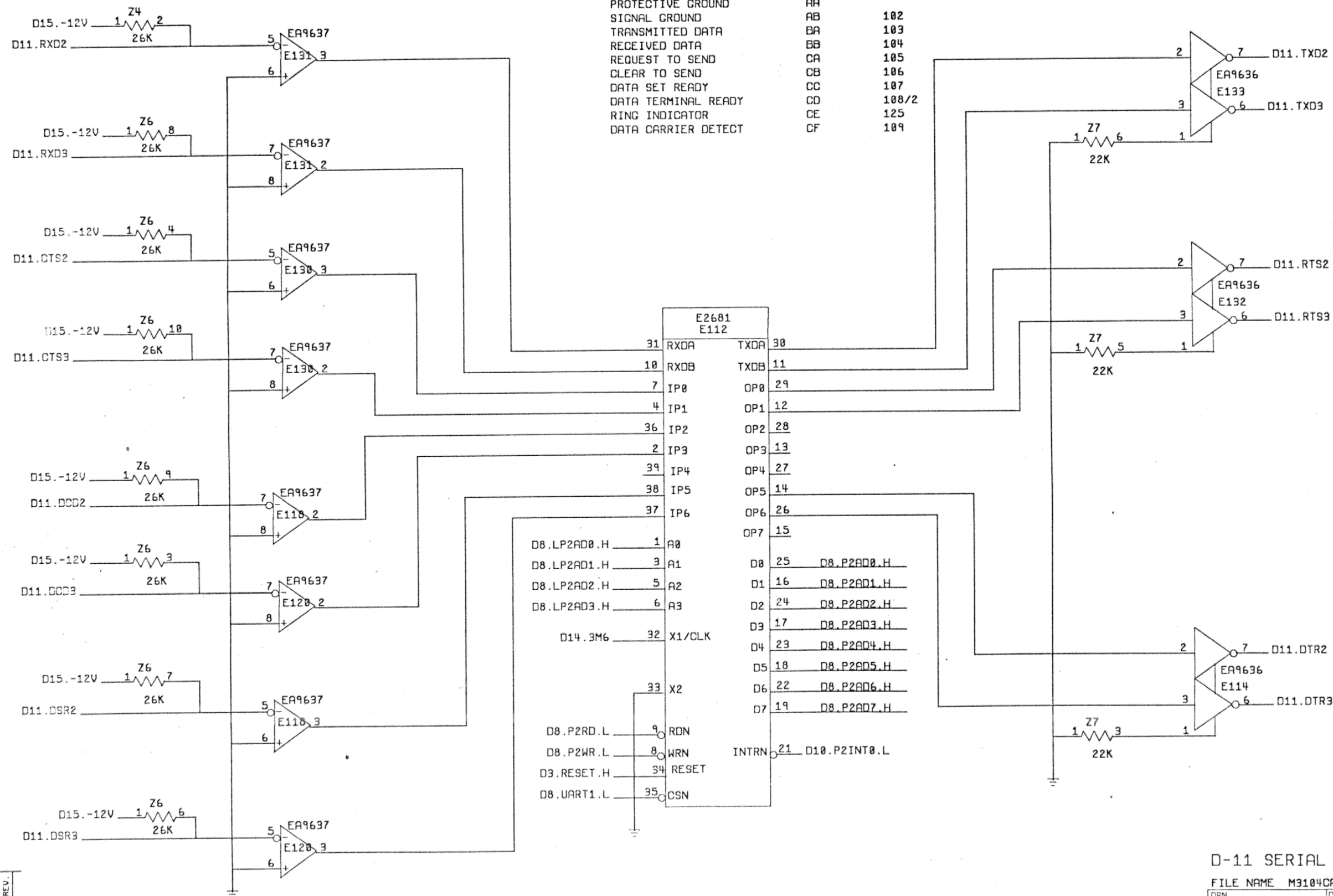
DRN J. DUNN	DATE 9-2-84	digital
CHKD P. DAMPIER	DATE 9/2/84	
DES. ENG M. CHAMBERLAIN	DATE 9/2/84	DHV11 CIRCUIT SCHEMATIC
RESP. ENG M. CHAMBERLAIN	DATE 9/2/84	
MFG. ENG P. TOOMEY	DATE 9/2/84	DOCUMENT NUMBER
TOP DOC. NO. B-DD-M3104-0-0		SIZE CODE NUMBER D CS M3104-0-0 B
		SCALE SHEET 10 OF 16

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R9-232-C CCITT NO.

CCITT NO.

AA	
AB	102
BA	103
BB	104
CA	105
CB	106
CC	107
CD	108/2
CE	125
CF	109



D10.TXD0		B
D11.RXD0		C
D10.DTR0		D
D11.RI0		E
D11.CTS0		F
D10.RTS0		H
		J
D11.DSR0		K
D11.DCD0		L
		M
D10.TXD1		N
D11.RXD1		P
D10.DTR1		R
D11.RI1		S
D11.CTS1		T
D10.RTS1		U
		V
D11.DSR1		W
D11.DCD1		X
D11.DCD2		Y
D11.DSR2		Z
		AA
D11.RTS2		BB
D11.CTS2		CC
D11.RI2		DD
D11.DTR2		EE
D11.RXD2		FF
D11.TXD2		HH
		JJ
D11.DCD3		KK
D11.DSR3		LL
		MM
D11.RTS3		NN
D11.CTS3		PP
D11.RI3		RR
D11.DTR3		SS
D11.RXD3		TT
D11.TXD3		UU

D-11 SERIAL PORT 2 AND 3

FILE NAME M3104CA00.COM

DRN	J. DUNN	DATE	9-2-84	digitia DHV11 CIRCUIT SCHEMATIC DOCUMENT NUMBER SIZE CODE NUMBER REV D CS M3104-0-0 B SCALE SHEET 11 OF 12
CHKD.	P. DAMPIER	DATE	9/2/84	
DES. ENG.	M. CHAMBERLAIN	DATE	9/2/84	
RESP. ENG.	M. CHAMBERLAIN	DATE	9/2/84	
MFG. ENG.	P. TOOMEY	DATE	9/2/84	
TOP DOC. NO.				
B-DD-M3104-0-0				

d	i	g	i	t	a
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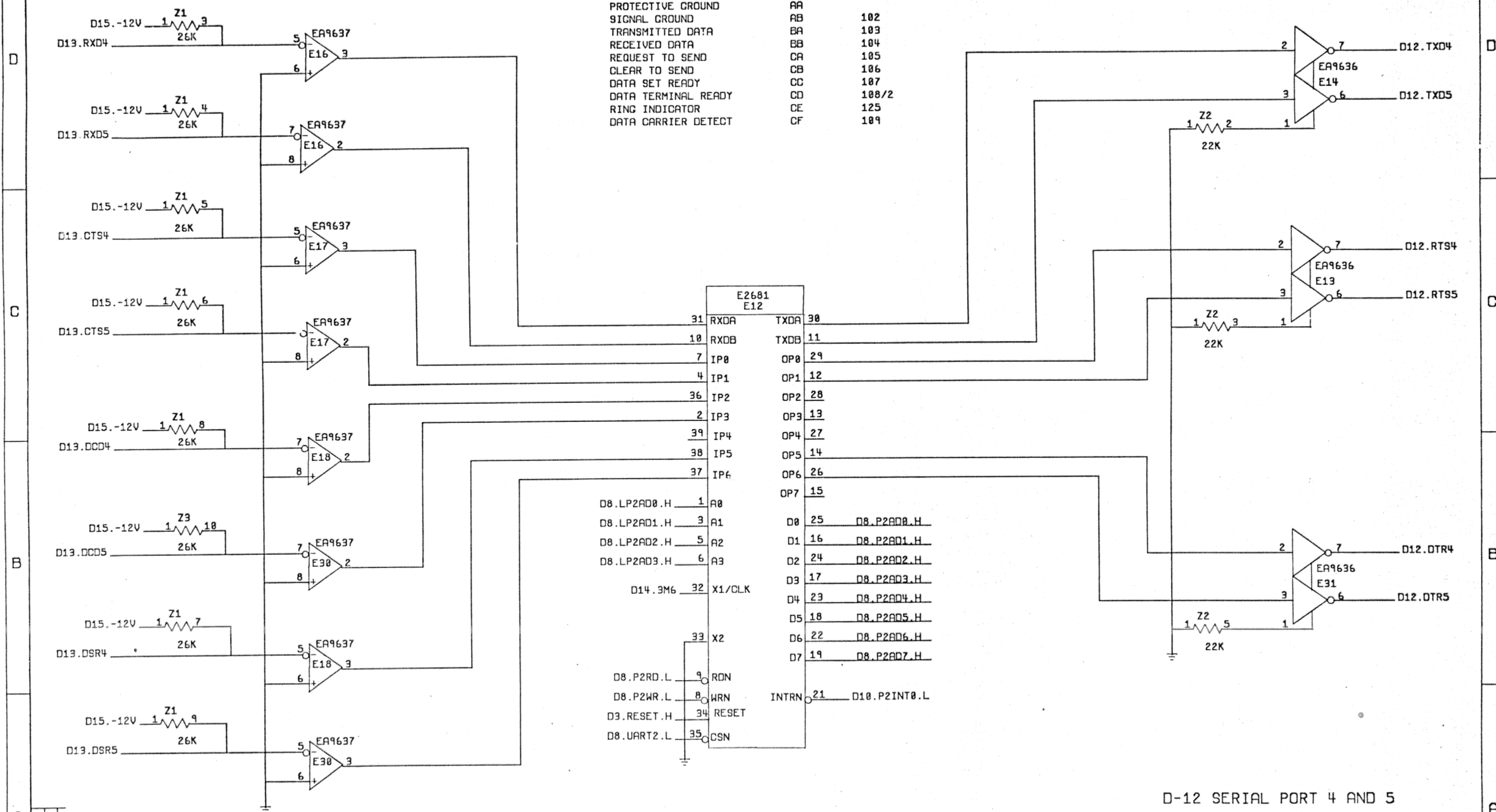
4 DHV11 CIRCUIT
4 SCHEMATIC

DOCUMENT NUMBER

SIZE	CODE	NUMBER	REV
D	CS	M3104-0-0	B
SCALE		SHEET 11 OF 1	

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SIGNAL NAME	RS-232-C	CCITT NO.
PROTECTIVE GROUND	AA	
SIGNAL GROUND	AB	102
TRANSMITTED DATA	BA	103
RECEIVED DATA	BB	104
REQUEST TO SEND	CA	105
CLEAR TO SEND	CB	106
DATA SET READY	CC	107
DATA TERMINAL READY	CD	108/2
RING INDICATOR	CE	125
DATA CARRIER DETECT	CF	109



D-12 SERIAL PORT 4 AND 5

FILE NAME M3104CA00.COM

DRN J. DUNN	DATE 9-2-84	digital
CHKD. P. DAMPIER	DATE 9/2/84	
DES. ENG. M. CHAMBERLAIN	DATE 9/2/84	
RESP. ENG. M. CHAMBERLAIN	DATE 9/2/84	
MFG. ENG. P. TOOMEY	DATE 9/2/84	
TOP DOC. NO. B-DD-M3104-0-0	SCALE	REV 1

DHV11 CIRCUIT
SCHEMATIC

DOCUMENT NUMBER

SIZE CODE NUMBER

D CS M3104-0-0 B

SHEET 12 OF 16

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SIGNAL NAME	RS-232-C	CCITT NO.
PROTECTIVE GROUND	AA	102
SIGNAL GROUND	AB	103
TRANSMITTED DATA	BA	104
RECEIVED DATA	BB	105
REQUEST TO SEND	CA	106
CLEAR TO SEND	CB	107
DATA SET READY	CC	108/2
DATA TERMINAL READY	CD	125
RING INDICATOR	CE	109
DATA CARRIER DETECT	CF	

D

C

B

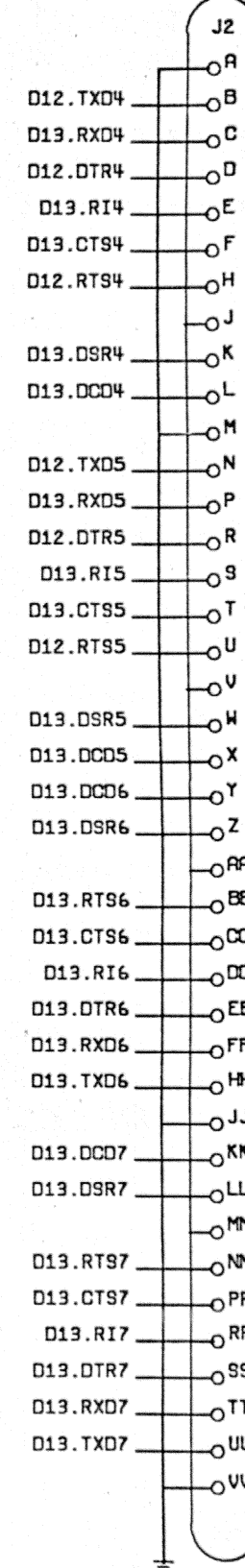
A

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C

B

A

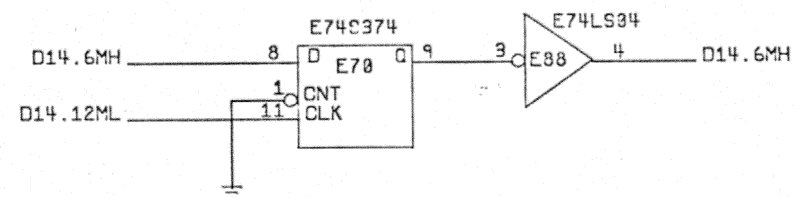
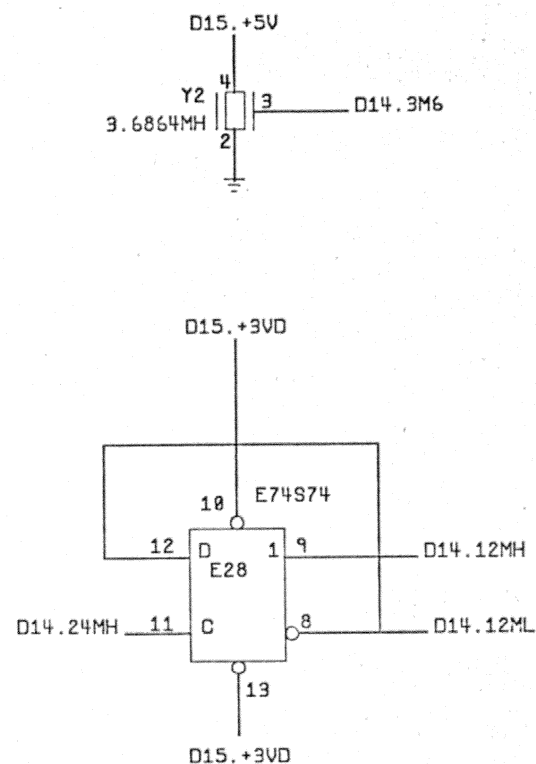
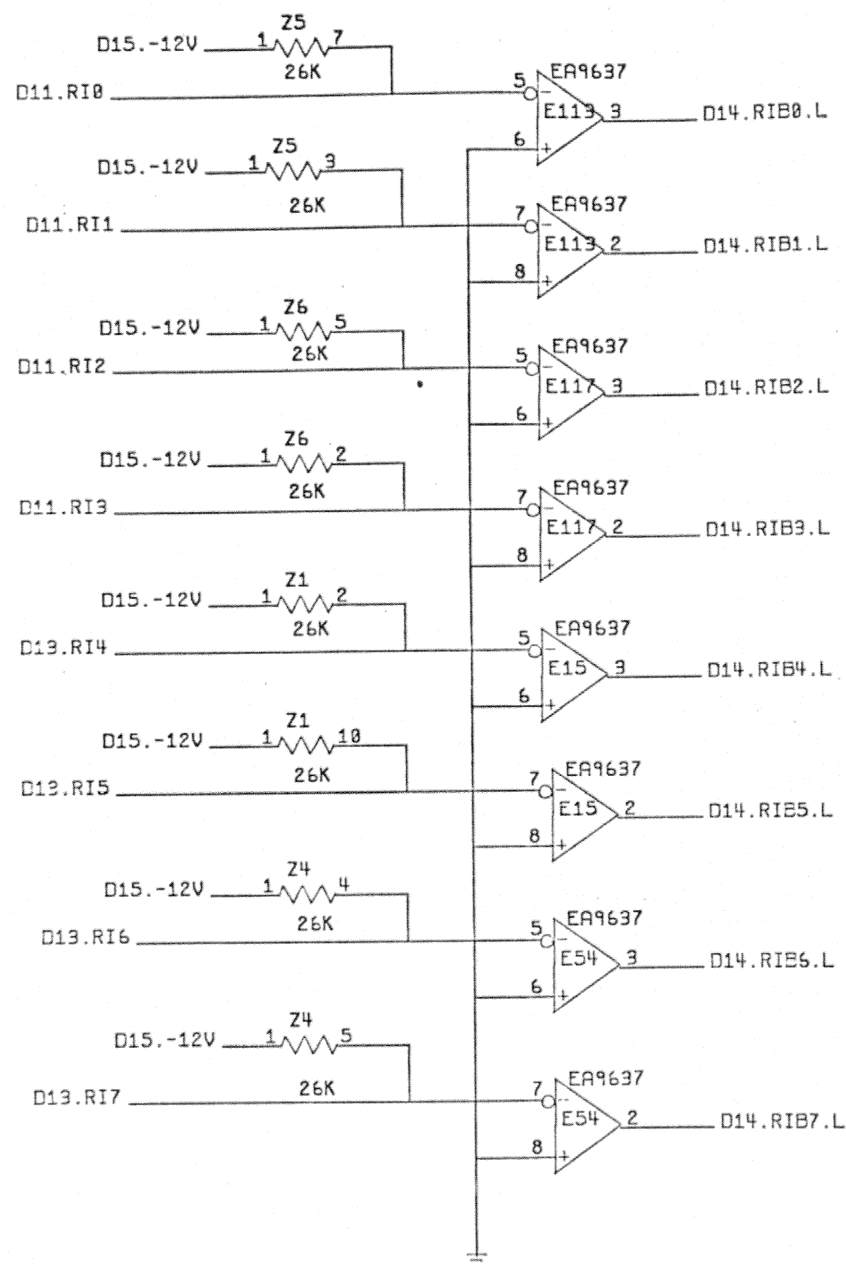


D-13 SERIAL PORT 6 AND 7

FILE NAME M3104CA00.COM

DRN. J. DUNN	DATE 9-2-84	digital	DHV11 CIRCUIT SCHEMATIC
CHKD. P. DAMPIER	DATE 9/2/84		
DES. ENG. M. CHAMBERLAIN	DATE 9/2/84		
RESP. ENG. M. CHAMBERLAIN	DATE 9/2/84		
MFG. ENG. P. TOOMEY	DATE 9/2/84		
TOP DOC. NO. B-DD-M3104-0-0	SIZE CODE M3104-0-0B	REV 13 OF 16	

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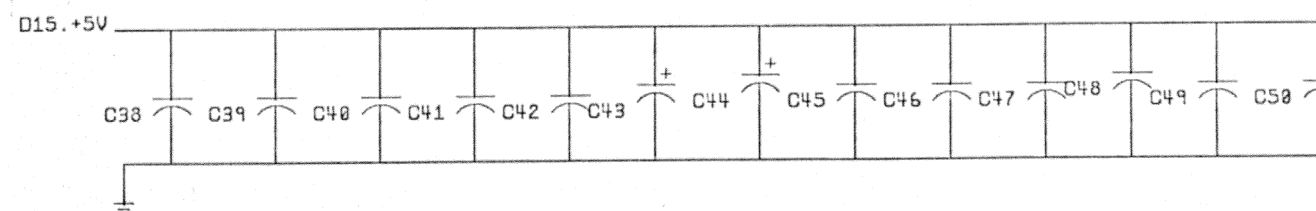
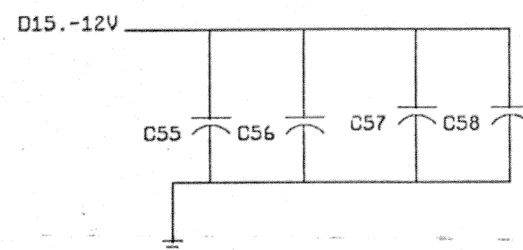
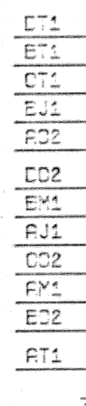
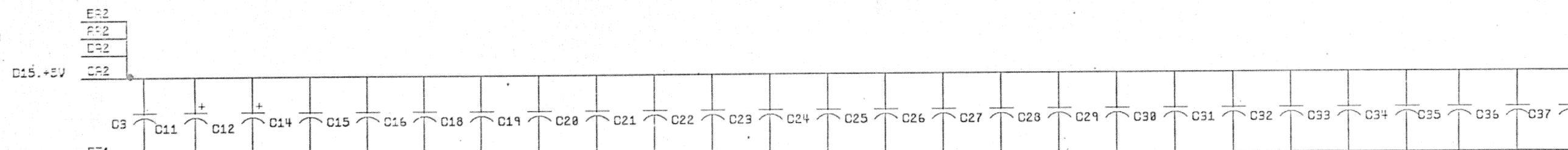
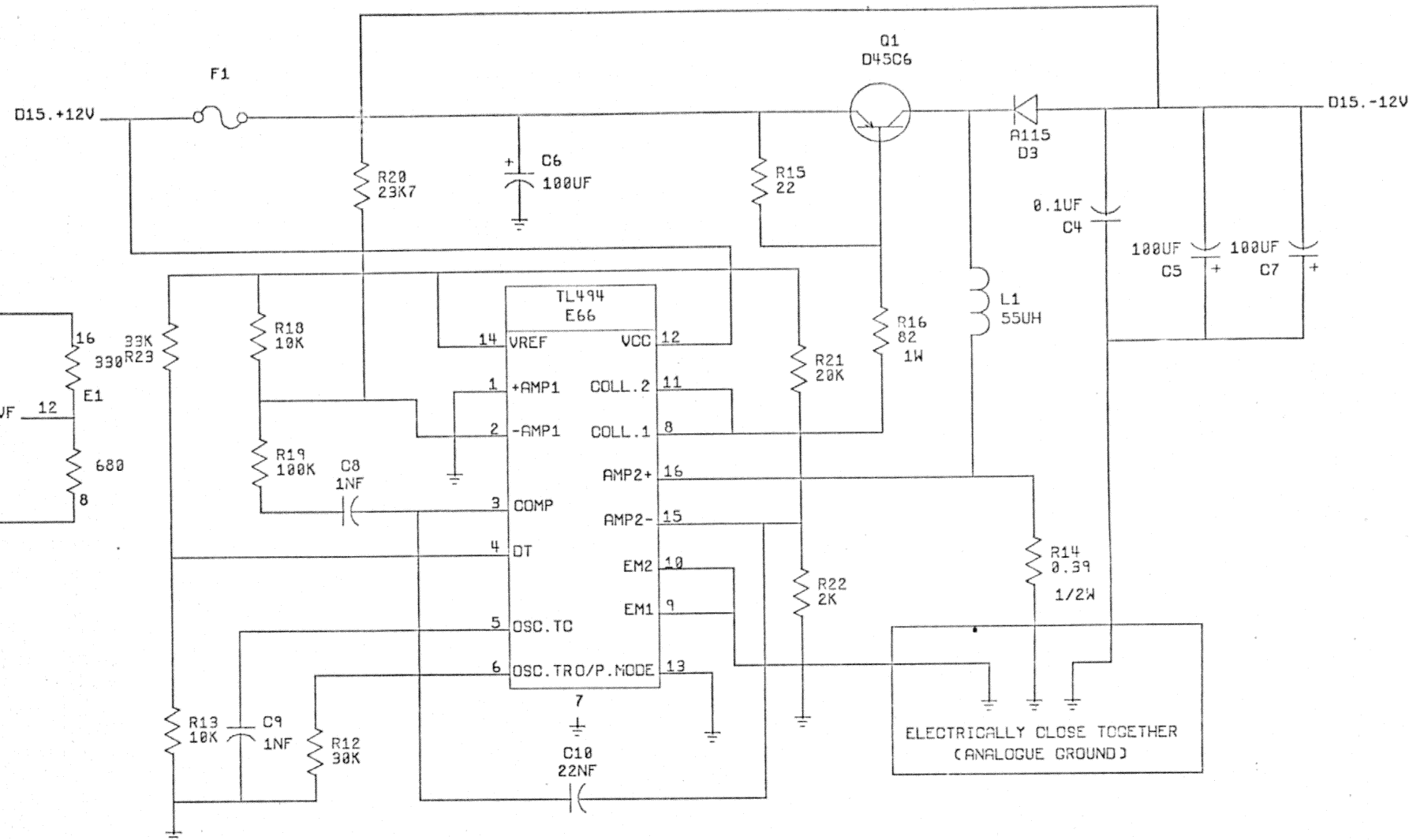
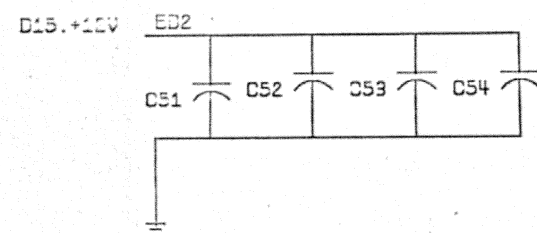
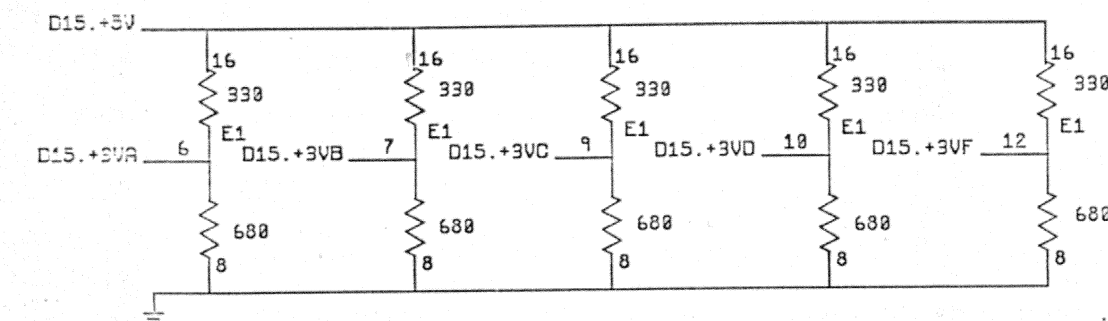
D-14 CLOCKS AND RING INDICATORS

FILE NAME M3104CA00.COM

DRN.	J. DUNN	DATE	9-2-84	digital
CHKD.	P. DAMPIER	DATE	9/2/84	
DES. ENG.	M. CHAMBERLAIN	DATE	9/2/84	
RESP. ENG.	M. CHAMBERLAIN	DATE	9/2/84	
MFG. ENG.	P. TOOMEY	DATE	9/2/84	
TOP DOC. NO.	B-DD-M3104-0-0	SCALE		
DOCUMENT NUMBER				
SIZE CODE NUMBER				
REV				
D CS M3104-0-0 B				
SHEET 14 OF 16				

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D-15 SUPPLIES AND DECOUPLING

FILE NAME M3104CA00.COM

DRN	DATE
-----	------

J. DUNN	4-2-80
CHKD	DATE

CARD.	122	DATE	9/2/84
P. DAMPIER			

DES. ENC. <i>M 32</i>	DATE <i>9/2/84</i>
M. CHAMBERLAIN	

M. CHAMBERLAIN		4/2/84
RESP. ENG.	1. 3C	DATE 4/2/84

REC'D	9/2/84
M. CHAMBERLAIN	
MEG ENG	DATE 1

MFC. ENG. P. TOOMEY	DATE 9/5/84
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TOP DOC NO.
B-DD-M3104-0-0

34	digit
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1 DHV11 CIRCUIT

4 SCHEMATIC

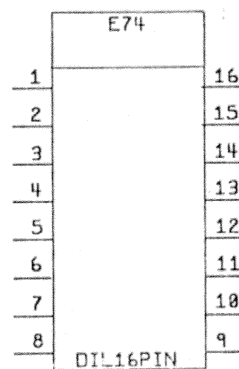
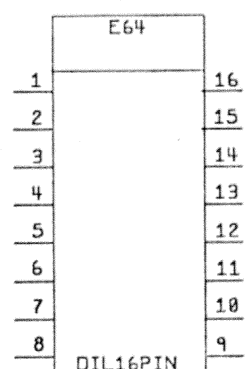
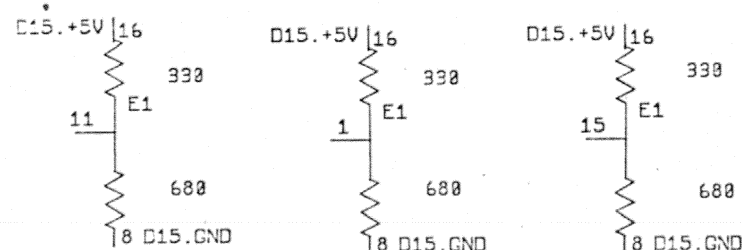
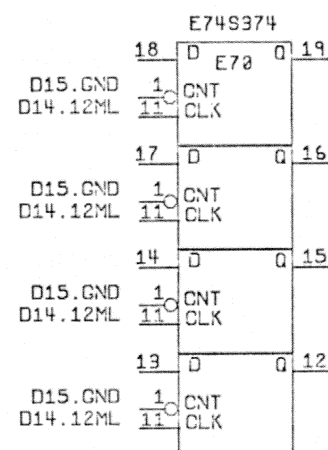
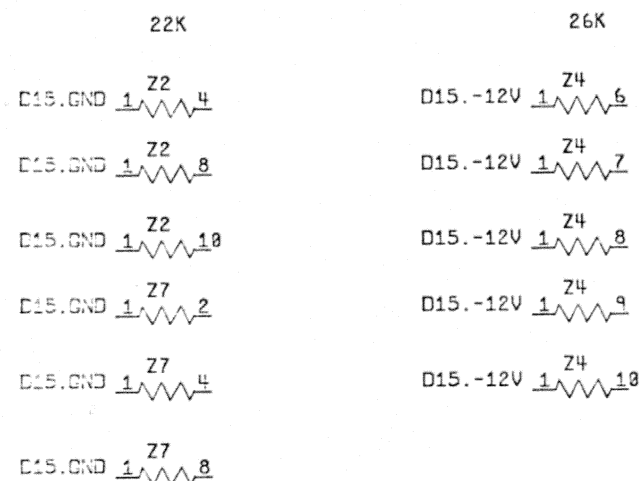
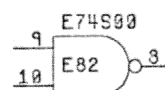
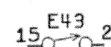
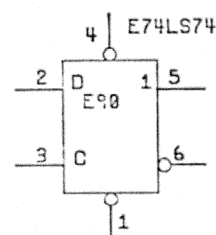
4 DOCUMENT NUMBER

SIZE	CODE	NUMBER	REV
0	00	M0400	0

D	CS	M3104-0-0B
2001E	2001E	2001E

SCALE	SHEET 15 OF 1
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DEVICE	+5V	0V	+12V	-12V
74S00	14	7		
74LS00	14	7		
74LS02	14	7		
74S04	14	7		
74LS04	14	7		
74LS10	14	7		
74LS14	14	7		
74LS27	14	7		
74S74	14	7		
74LS74	14	7		
74LS125	14	7		
74S138	16	8		
74S139	16	8		
74S153	16	8		
74S163	16	8		
74S175	16	8		
74LS244	20	10		
74S283	16	8		
74S374	20	10		
74LS374	20	10		
74LS393	14	7		
74LS646	24	12		
74ALS573	20	10		
TL494		7	13	
2114	18	9		
2681	40	20		
8051	40	20		
8641	16	8		
9637	1	4		
9636		4	8	5
DC003	18	9		
DC004	20	10		
DC005	20	10		
DC010	20	10		

D-16 SPARES AND POWER

FILE NAME M3104CA00.COM

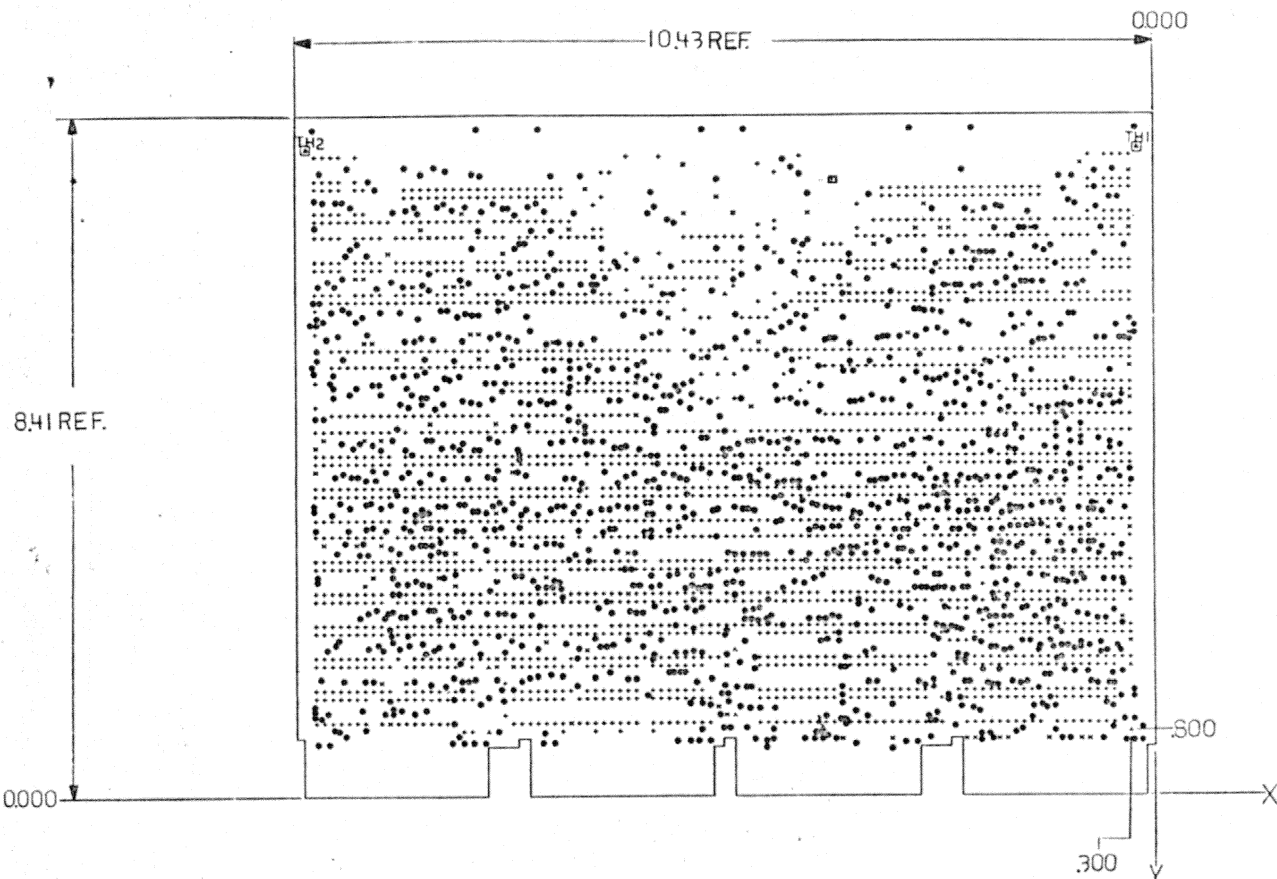
DRN J. DUNN	DATE 9-2-84	digital
CHKD. P. DAMPIER	DATE 9/2/84	
DES. ENG. M. CHAMBERLAIN	DATE 9/2/84	
RESP. ENG. M. CHAMBERLAIN	DATE 9/2/84	
MFC. ENG. P. TOOMEY	DATE 9/2/84	
TOP DOC NO. B-CD-M3104-0-0		DOCUMENT NUMBER D CS M3104-0-0B
SCALE		REV 16 OF 16

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VIEWS FROM SIDE 1
COMPONENT SIDE

SEE NOTE 2

PAD NO.	X	Y
1	2.960	2.640
2	2.960	2.920
3	2.960	3.000
4	3.080	2.640
5	3.120	2.920
6	6.900	8.560
7	6.900	9.140
8	7.000	9.380
9	7.060	8.540
10	7.100	6.940
11	7.100	9.460
12	7.120	6.600
13	7.280	6.580
14	7.300	6.760
15	7.600	3.040
16	7.660	6.980
17	7.720	6.600
18	7.740	2.800
19	7.740	3.340
20	7.780	3.040
21	7.780	7.340
22	7.780	7.640
23	7.880	2.860
24	7.880	2.960
25	7.920	3.060
26	7.940	7.240
27	7.960	2.960
28	8.020	7.240
29	8.100	6.560
30	8.320	6.660
31	8.320	6.820
32	8.340	6.480
33	8.420	6.780
34	8.460	6.560
35	8.480	6.700
36	8.520	6.760
37	8.520	8.780
38	8.580	6.640
39	8.600	8.820
40	8.640	6.460
41	8.660	6.640
42	8.700	6.460
43	8.720	6.880
44	8.760	6.760
45	8.760	8.980
46	8.800	9.160
47	8.840	8.900
48	8.880	6.620
49	8.880	6.840
50	8.900	7.060
51	10.700	3.140
52	10.800	2.920
53	10.900	2.840
54	6.900	8.900
55	7.600	6.500



FOR HOLE TOLERANCES USE DEC STD 176									
SYMBOL	+	-	+	-	+	-	+	-	+
FIN HOLE SIZE	0.038	0.042	0.025	0.062	0.047	0.133	0.152	0.132	
PLATED	X	X	X	X	X			X	
NON PLATED						X	X		
QTY.	2403	8	1465	2	2	8	2	1	
OFF GRD HOLE	10	0	0	0	0	0	0	0	
DRILL SIZE									
NOTE: ALL HOLE LOCATIONS ARE DESIGNED ON .025 GRID INCREMENTS FROM DATUM UNLESS SYMBOL IS CIRCLED.									

DESIGN INFORMATION	
CIRCUIT SIZE: X 10.43 Y 8.41 INCHES	
CIRCUIT TYPE: PPEC PTH MLW	
CIRCUIT HD15X15()	
TECHNOLOGY: SD() HD12X13() H2D() OTHER()	
UL REQUIREMENTS LMR() HMR()	
CIRCUIT OUTLINE & FINGER DETAIL 2-MD-ELEN-01-2-000 AS SHOWN()	
LAYER CONSTRUCTION PER 2-MD-ELEN-30-3-0 AS SHOWN()	
ARTWORK LAYOUT: MANUAL() CAD() SCI()	
ENG SPECIAL FEATURES:	
SPECIAL NOTES: 1. PAD EXPANSION REQUIRED ON THIS BOARD	
COMPONENT PADS WITH NO PAD EXPANSION ARE PERMITTED	
WHERE 0.10 MIN SPACE CHECK REQUIREMENT WILL NOT BE MET	

FABRICATION INFORMATION	
FABRICATE BOARD PER 2-MD-ELME-53-0-0 AS SHOWN()	
SOLDER MASK, SIDE 1 & 2 NONE()	
SPECIFICATIONS AND STANDARDS:	
MATERIALS AND WORKMANSHIP FOR ALL FABRICATED PRINTED WIRING	
BOARDS MUST MEET OR EXCEED THE REQUIREMENTS OF DEC STD 176.	
SPECIAL NOTES:	
1. SOLDERMASK DRY FILM BOTH SIDES	
.062 SOLDERMASK PAD FOR .038 PTH	
.050 SOLDERMASK PAD FOR .025 PTH	
2. REDUCE SOLDERMASK PADS TO .030 PAD SIZE AT THESE LOCATIONS	
REFERENCED TO H MASTER 2 SIDES 1 AND 2	

TOLERANCES	
INCHES UNLESS SPECIFIED	
.XXX ± .010	ANGLES
.XX ± .020	±8 DEG 30 MIN
.X ± .100	
SIGNATURES	
DRN: <i>Donald P. Hood</i>	DATE: <i>6/19/83</i>
CHK'D: <i>Ken L. Hooten</i>	DATE: <i>6/20/83</i>
MECH ENG: <i>Bob L. Hooten</i>	DATE: <i>6/20/83</i>
PROJ ENG: <i>Bob L. Hooten</i>	DATE: <i>6/20/83</i>
MFG ENG: <i>Bob L. Hooten</i>	DATE: <i>6/20/83</i>
SCALE: <i>1</i>	
SHEET: <i>1</i>	OF <i>3</i>
TOP DOCUMENT NO: 8-CD-5015587-0-0	

digital	
TITLE: CIRCUIT DRILL AND ETCH DRAWING	
SIZE: <i>D</i>	CODE: <i>MD</i>
NUMBER: <i>5015587-0-0</i>	REV: <i>A</i>
ETCH REV: <i>A1</i>	

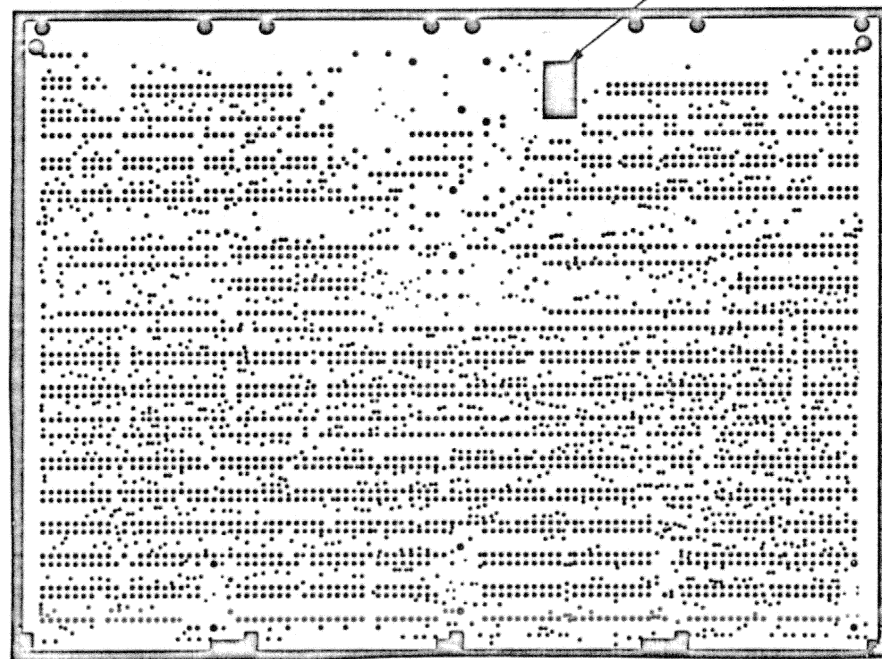
1 WO# 275227

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0-0-2855105 010 2
A 5015587-0-0

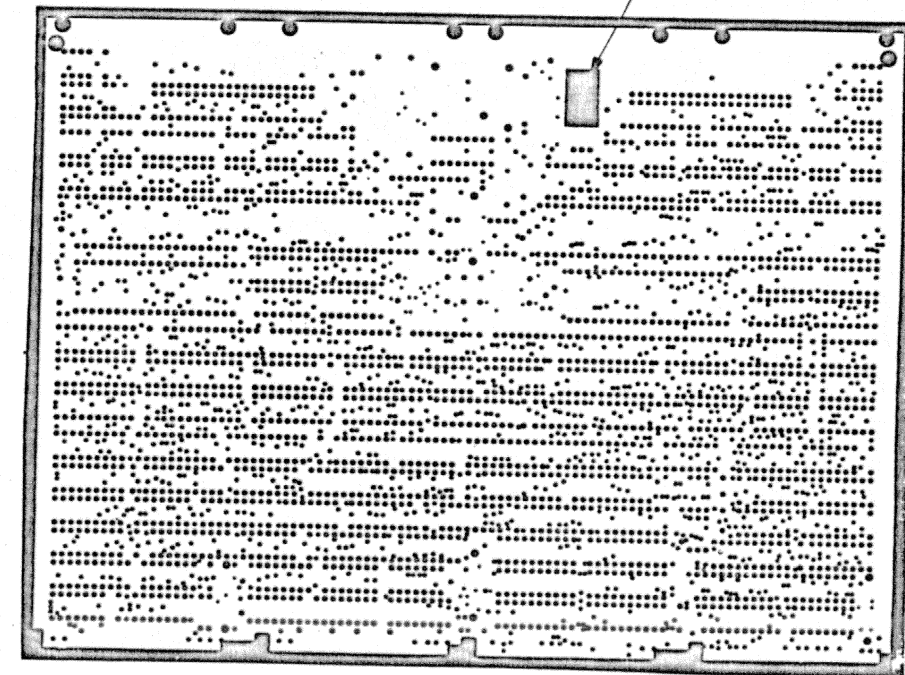
SIDE 1

SOLDERMASK REWORK
SEE ALSO NOTE 2



SIDE 2

SOLDERMASK REWORK
SEE ALSO NOTE 2



REVISIONS		
CHG	CHANGE NO.	REV

TITLE		SIZE	CODE	NUMBER		REV
CIRCUIT DRILL AND ETCH DRAWING		D	MD	5015587-0-0		A
SCALE 1"=1"		SHEET 3 OF 3		DIST		

8

0-0-1855105
5015587-0-0
A30

6

5

4

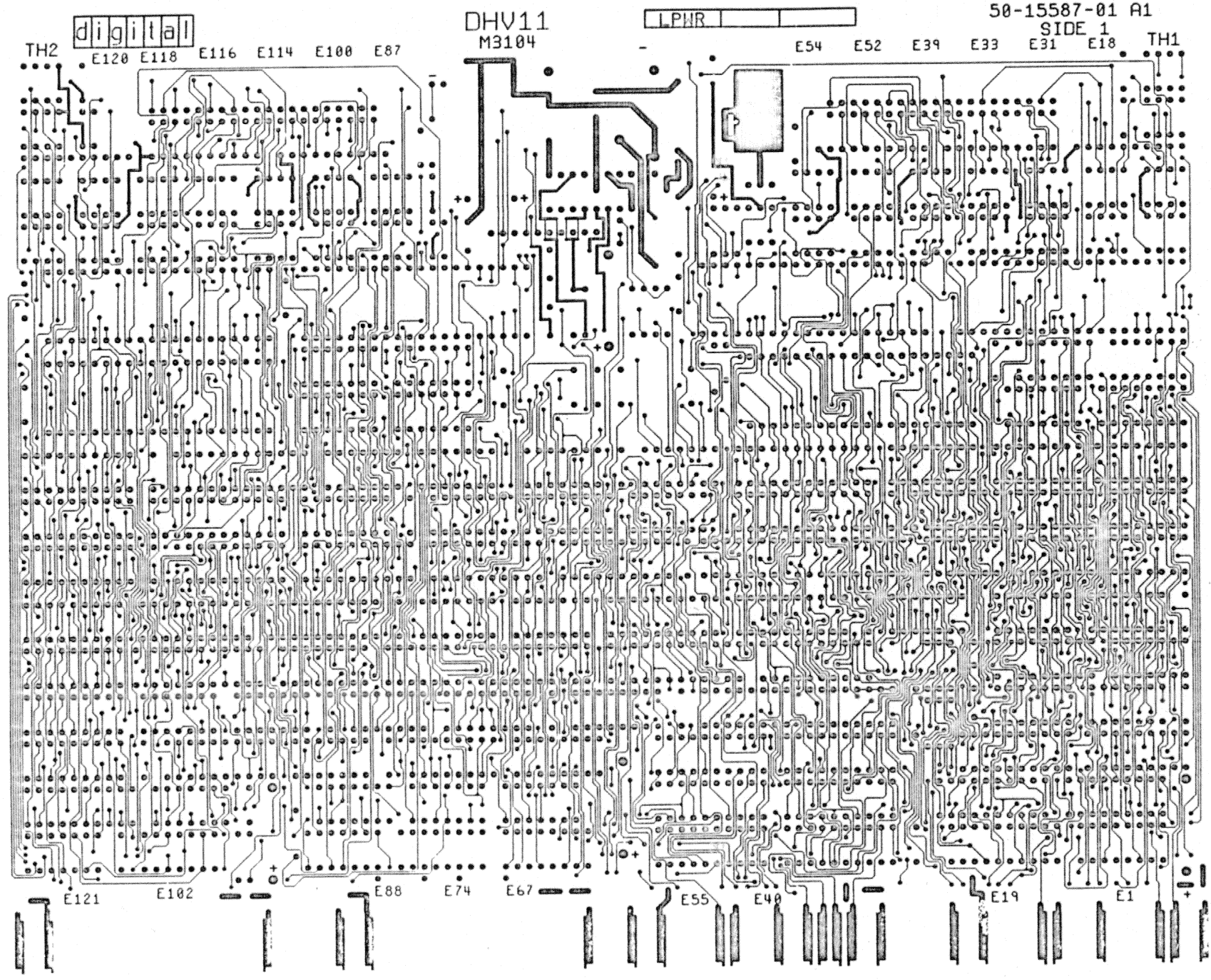
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2

1

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VIEWS FROM SIDE 1



REV	ECO NUMBER	DATE
1		

DRN	DATE	TITLE	digital
CHW	DATE	ETCH CUT	
DES ENG	DATE	DRAWING	
RESP ENG	DATE	DOCUMENT NUMBER	
WFO ENG	DATE	SIZE CODE	
TOP DES	DATE	SCALE	

8

7

6

5

4

3

2

D

C

A

5015587-0-0
DEC

B

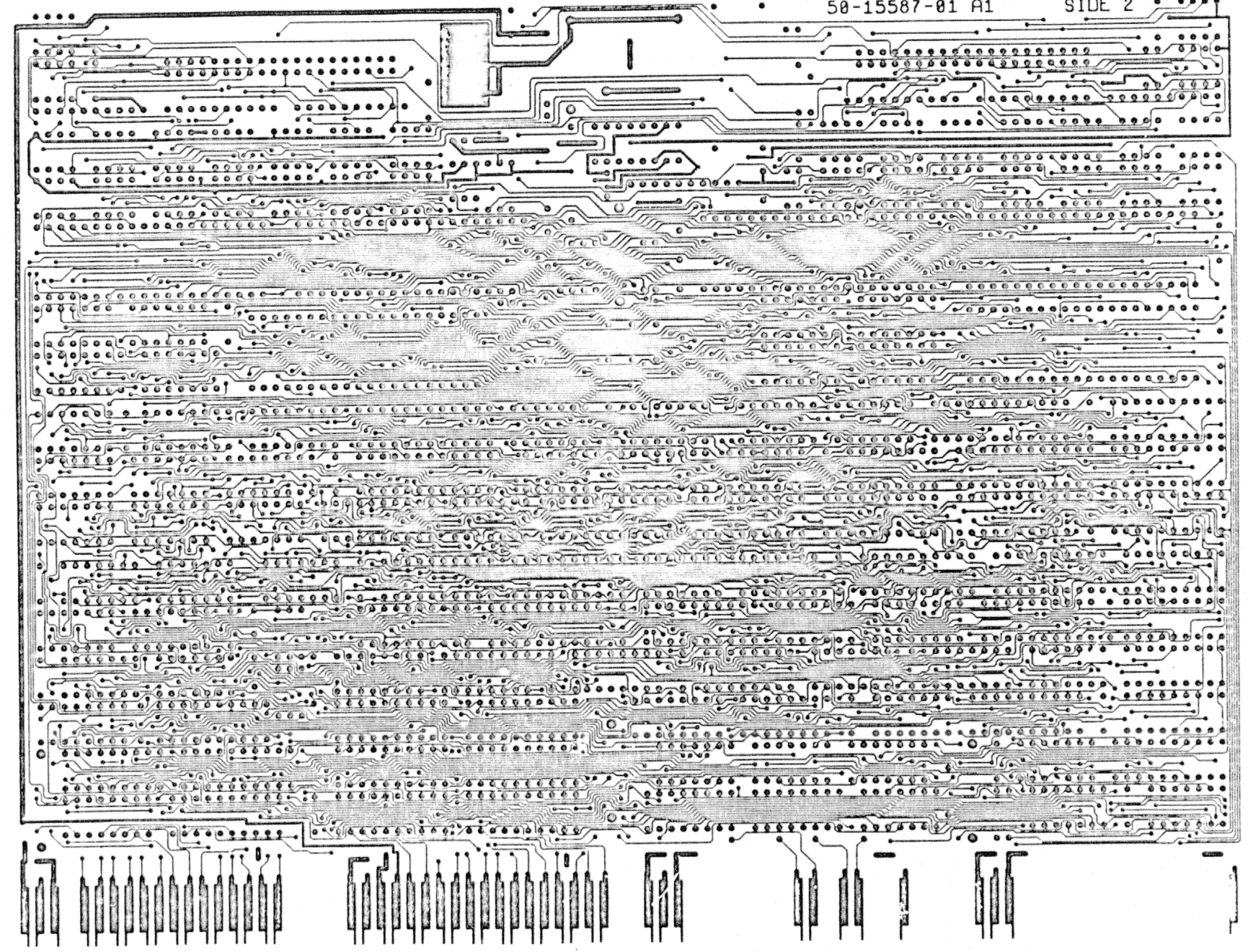
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7 0-0-555104 DEQ 2

VIEWED FROM SIDE 2

50-15587-01 A1 SIDE 2



REVISION		
CHG	CHANGE NO.	REV

TITLE		SIZE CODE	NUMBER	REV.
ETCH CUT DRAWING		DEC	5015587 0-0	A
SCALE	SHEET	DIST		

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B-DD-CK-DHV11-XX
B-PL-CK-DHV11-XX

CABINET KIT FOR DHV11

VARIATIONS

[illegible]

REVISION HISTORY		
DATE	ECO NUMBER	REV.
2/84	[K-DHV11-RY001	B

DRN	3D ENG	DATE	8/83	TITLE DHV11 CABINET KIT			
CHK'D P.DAMPIER	<i>[Signature]</i>	DATE	16 AUG 83				
DES. ENG. T.HOLMES	<i>[Signature]</i>	DATE	16/7/83	DOCUMENT NUMBER			
RESP. ENG. M.CHAMBERLAIN	<i>[Signature]</i>	DATE	16/8/83				
MFG. ENG. J.TOONEY	<i>[Signature]</i>	DATE	18/8/83	SIZE	CODE	NUMBER	REV.
				B	DD	CK-DHV11-XX	B
						SHEET	1 OF 1

AUTOMATED BY PRTLST,4Q(50)

PARTS LIST

SHEET A1 OF A1

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION
1	1	D-UA-5416370-0-0	5416370-01	DHV11 CONNECTOR BOARD ASSY.	1
2	2	D-HD-7428801-0-0	7428801-01	PLATE,CONNECTOR,DHV-11	1
3	3		9008451-00	SCREW LOCK,ASSY .060TH	4

REVISION HISTORY			BASIC PART NO: H3173		DRN: RITA BUREAU	DATE: 17-JUN-83	D I G I T A L			
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D: BRIAN GOOD	DATE: 17-JUN-83	TITLE PARTS LIST				
MC	INITIAL H3173A-RY001	A	SECTION. VARIATION INDEX [A] A	DES.ENG.: A.J. HOLMES	DATE: 17-JUN-83	H3173A DISTRIBUTION PANEL				
		B	[B]	RESP.ENG.: M. CHAMBERLAIN	DATE: 17-JUN-83	DOCUMENT NUMBER				
			[C]	MFG.ENG.: P. TOOMEY	DATE: 17-JUN-83	SIZE	CODE	NUMBER	REV	
			[D]	ASSEMBLY NUMBER: D-UA-H3173A-0-0	TOP DOCUMENT NUMBER: B-DD-H3173A-0-0	K	PL	H3173A-0-DBP	B	
			[E]		FILE NAME: Z7499B.PLS				EDIT # 6	
			[F]							

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4

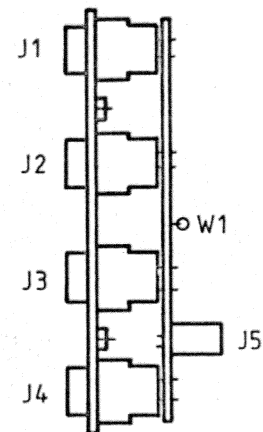
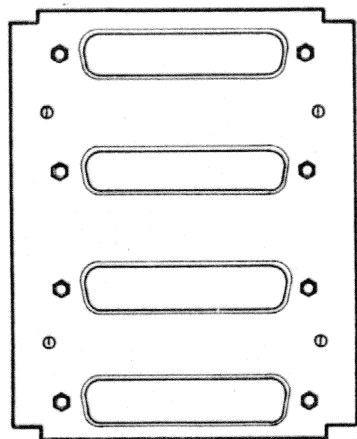
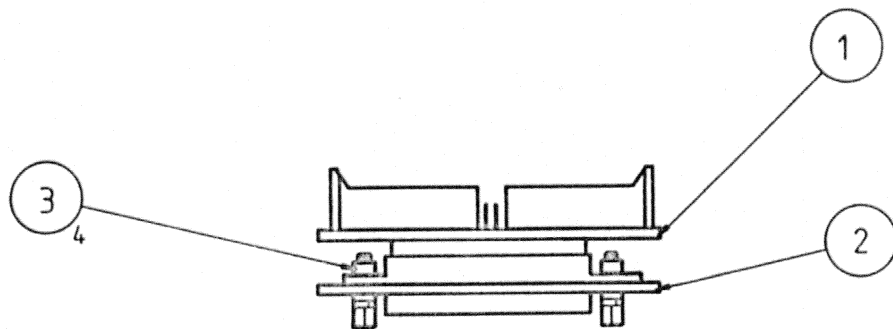
3

2

1

C
UA
H3173-A-0
REV
B

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D

C

A

REV

B

NUMBER

H3173-A-0

C
UA

SIZE

H3173-A-0

REV

B

A

REVISION HISTORY		DATE
REV	ECO NUMBER	

DESCRIPTION		DRAWING NO.	PART NO.	ITEM NO.					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)									
INCHES TOLERANCES	ANGLES ± 0° 30'	APPLICABLE DIMENSION RANGE (CHECK ONE)	DIMENSIONS RANGE IN 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 60.0	
X = ± .1 XX = ± .02 XXX = ± .005	SURFACE QUALITY ☒ MICROINCHES	☐	± .02	± .03	± .05	± .10			
		☐	± .004	± .008	± .012	± .016	± .024	± .04	
THIRD ANGLE PROJECTION		DRN 3D ENG	DATE 9/83	TITLE digital					
DO NOT SCALE DRAWING		CHK'D P. DAMPIER	DATE 14 SEP 83	H3173-A DISTRIBUTION PANEL					
REMOVE BURRS AND BREAK SHARP CORNERS		DES ENG T. HOLMES	DATE 14 SEP 83						
MATERIAL		RESP ENG M. CHAMBERLAIN	DATE 14 SEP 83	DOCUMENT NUMBER					
FINISH		MFG ENG P. TOOMEY	DATE 14 SEP 83	SIZE CODE C UA	NUMBER H3173-A-0	REV B	SHEET 01 OF 01		
		TOP DOC. NO. B-DD-H3173A-0-0							

AUTOMATED BY PRTLST.4Q(50)

PARTS LIST

SHEET A1 OF A1

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 01	REFERENCE DESIGNATOR
1	1	D-MD-5015588-0-0	5015588-01	DRILL AND ETCH CUT BOARD	1	
2	2		1214886-01	PCB,HEADER 40POS(2X40),100CC	1	J5
3	3		1219573-11	CONN,D SUB 11PIN ASSY STR	4	J1-J4
4	4		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	1	W1

REVISION HISTORY			BASIC PART NO: 5416370			DRN: RITA BUREAU			DATE: 23-SEP-83			D I G I T A L		
ENG	ECO NUMBER	REV	SECTION A OF A			CHK'D: BRIAN GOOD <i>mse/lb</i>			DATE: 23-SEP-83			TITLE PARTS LIST		
---	INITIAL	A	SECTION VARIATION INDEX			DES.ENG: A.J.HOLMES <i>mse/lb</i>			DATE: 23-SEP-83			CONNECTOR MODULE ASSEMBLY		
			[A] 01			RESP.ENG.: M. CHAMBERVAIN <i>mse/lb</i>			DATE: 23-SEP-83			DOCUMENT NUMBER		
			[B]			MFG.ENG.: P. TOOMEY <i>mse/lb</i>			DATE: 23-SEP-83			SIZE CODE NUMBER REV		
			[C]			ASSEMBLY NUMBER:			TOP DOCUMENT NUMBER:			FILE NAME:		
			[D]			D-UA-5416370-0-0			B-DD-5416370-0-0			Z8046A.PLS		
			[E]									EDIT #		
			[F]									3		
			[G]											
			[H]											
			[I]											
			[J]											
			[K]											
			[L]											
			[M]											
			[N]											

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1 WO# 275225

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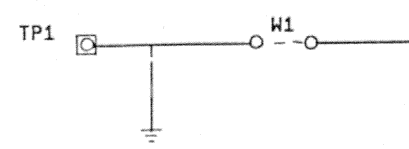
- J5
- AO — SIGNAL.GROUND
 - BO — TRANSMIT.DATA.0
 - CO — RECEIVE.DATA.0
 - DO — DATA.TERM.RDY.0
 - EO — RING.INDICATOR.0
 - FO — CLEAR.TO.SEND.0
 - HO — REQ.TO.SEND.0
 - JO —
 - KO — DATA.SET.READY.0
 - LO — DATA.CARR.DET.0
 - MO — SIGNAL.GROUND
 - NO — TRANSMIT.DATA.1
 - PO — RECEIVE.DATA.1
 - RO — DATA.TERM.RDY.1
 - SO — RING.INDICATOR.1
 - TO — CLEAR.TO.SEND.1
 - UO — REQ.TO.SEND.1
 - VO —
 - WO — DATA.SET.READY.1
 - XO — DATA.CARR.DET.1
 - YO — DATA.CARR.DET.2
 - ZO — DATA.SET.READY.2
 - AAO —
 - BBO — REQ.TO.SEND.2
 - CCO — CLEAR.TO.SEND.2
 - DDO — RING.INDICATOR.2
 - EEO — DATA.TERM.RDY.2
 - FFO — RECEIVE.DATA.2
 - HHO — TRANSMIT.DATA.2
 - JJO — SIGNAL.GROUND
 - KKO — DATA.CARR.DET.3
 - LLO — DATA.SET.READY.3
 - MMO —
 - NNO — REQ.TO.SEND.3
 - PPO — CLEAR.TO.SEND.3
 - RRO — RING.INDICATOR.3
 - SSO — DATA.TERM.RDY.3
 - TTO — RECEIVE.DATA.3
 - UOO — TRANSMIT.DATA.3
 - VVO — SIGNAL.GROUND

- J1
- 1 — TRANSMIT.DATA.0
 - 2 — RECEIVE.DATA.0
 - 3 — REQ.TO.SEND.0
 - 4 — CLEAR.TO.SEND.0
 - 5 — DATA.SET.READY.0
 - 6 — SIGNAL.GROUND
 - 7 — DATA.CARR.DET.0
 - 8 —
 - 9 —
 - 10 —
 - 11 —
 - 12 —
 - 13 —
 - 14 —
 - 15 —
 - 16 —
 - 17 —
 - 18 —
 - 19 —
 - 20 — DATA.TERM.RDY.0
 - 21 —
 - 22 — RING.INDICATOR.0
 - 23 —
 - 24 —
 - 25 —

- J2
- 1 — TRANSMIT.DATA.1
 - 2 — RECEIVE.DATA.1
 - 3 — REQ.TO.SEND.1
 - 4 — CLEAR.TO.SEND.1
 - 5 — DATA.SET.READY.1
 - 6 — SIGNAL.GROUND
 - 7 — DATA.CARR.DET.1
 - 8 —
 - 9 —
 - 10 —
 - 11 —
 - 12 —
 - 13 —
 - 14 —
 - 15 —
 - 16 —
 - 17 —
 - 18 —
 - 19 —
 - 20 — DATA.TERM.RDY.1
 - 21 —
 - 22 — RING.INDICATOR.1
 - 23 —
 - 24 —
 - 25 —

- J3
- 1 — TRANSMIT.DATA.2
 - 2 — RECEIVE.DATA.2
 - 3 — REQ.TO.SEND.2
 - 4 — CLEAR.TO.SEND.2
 - 5 — DATA.SET.READY.2
 - 6 — SIGNAL.GROUND
 - 7 — DATA.CARR.DET.2
 - 8 —
 - 9 —
 - 10 —
 - 11 —
 - 12 —
 - 13 —
 - 14 —
 - 15 —
 - 16 —
 - 17 —
 - 18 —
 - 19 —
 - 20 — DATA.TERM.RDY.2
 - 21 —
 - 22 — RING.INDICATOR.2
 - 23 —
 - 24 —
 - 25 —

- J4
- 1 — TRANSMIT.DATA.3
 - 2 — RECEIVE.DATA.3
 - 3 — REQ.TO.SEND.3
 - 4 — CLEAR.TO.SEND.3
 - 5 — DATA.SET.READY.3
 - 6 — SIGNAL.GROUND
 - 7 — DATA.CARR.DET.3
 - 8 —
 - 9 —
 - 10 —
 - 11 —
 - 12 —
 - 13 —
 - 14 —
 - 15 —
 - 16 —
 - 17 —
 - 18 —
 - 19 —
 - 20 — DATA.TERM.RDY.3
 - 21 —
 - 22 — RING.INDICATOR.3
 - 23 —
 - 24 —
 - 25 —



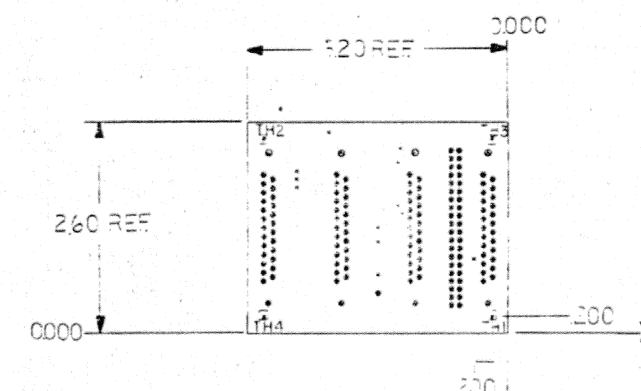
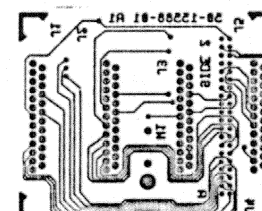
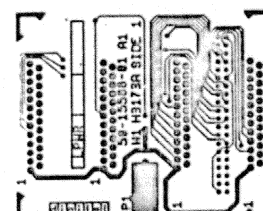
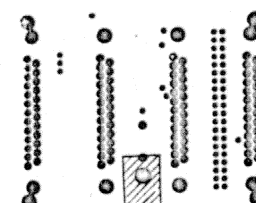
SIGNAL NAME	RS-232-C	CCITT NO.
PROTECTIVE GROUND	AA	
SIGNAL GROUND	AB	102
TRANSMITTED DATA	BA	103
RECEIVED DATA	BB	104
REQUEST TO SEND	CA	105
CLEAR TO SEND	CB	106
DATA SET READY	CC	107
DAT TERMINAL READY	CD	108/2
RING INDICATOR	CE	125
DATA CARRIER DETECT	CF	109

FILE NAME H3173CA00.COM

DRN: J. DUNN	DATE: 1/2/84	digital
CHKD: R. MARTIN	DATE: 1/2/84	
DES. ENG: T. HOLMES	DATE: 1/2/84	CONNECTOR MODULE ASSY.
RESP. ENG: M. CHAMBERLAIN	DATE: 1/2/84	
MFG. ENG: P. TOOMEY	DATE: 1/2/84	DOCUMENT NUMBER
TOP DOC. NO. B-00-H3173A-0-0	SCALE	
SHEET 01 OF 01		

[illegible]

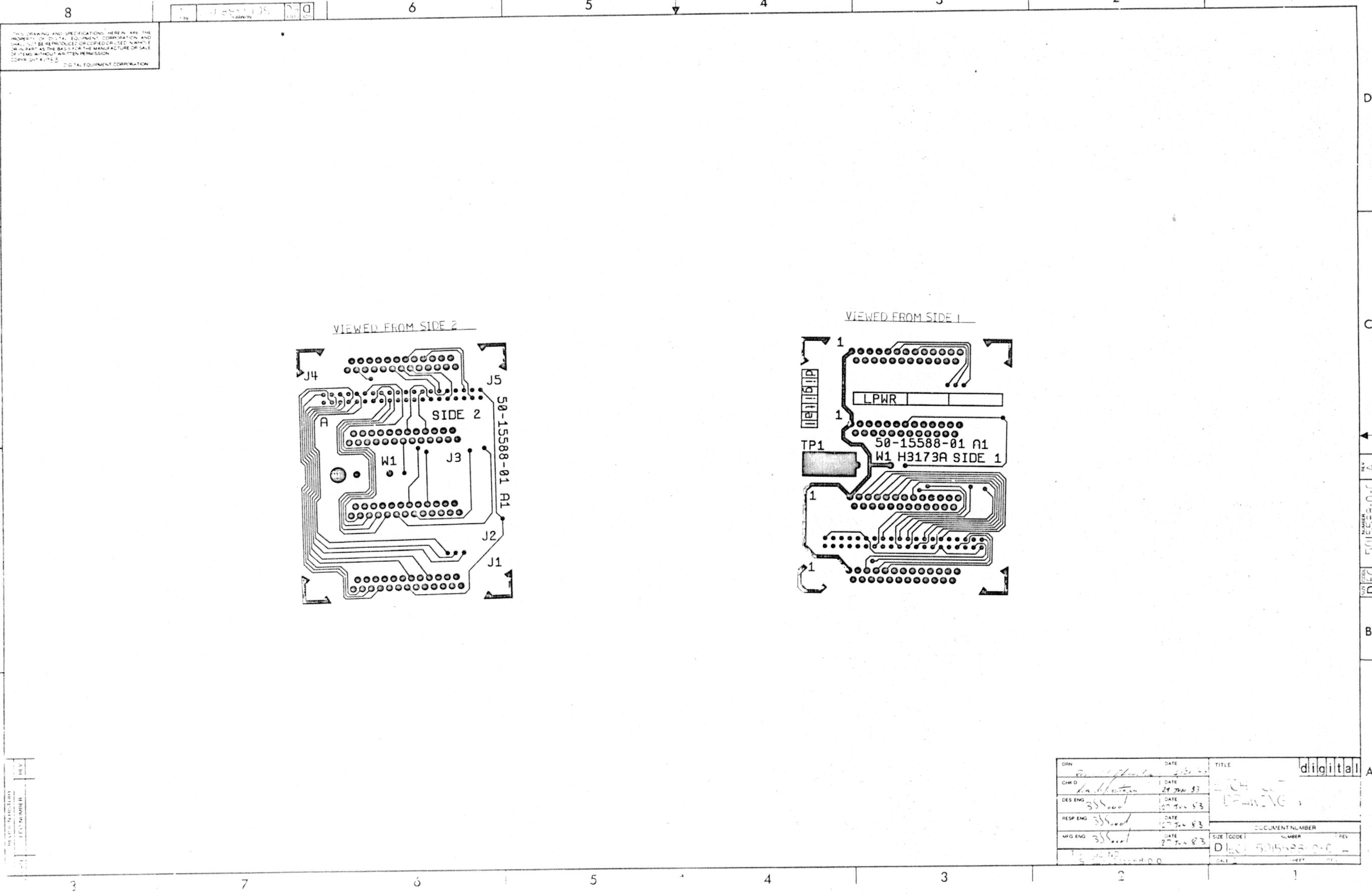
VIEWED FROM SIDE 1
COMPONENT SIDE



INDICATES AREA TO BE REWORKED ON SOLDERMASK SIDE 1

[illegible]

275225

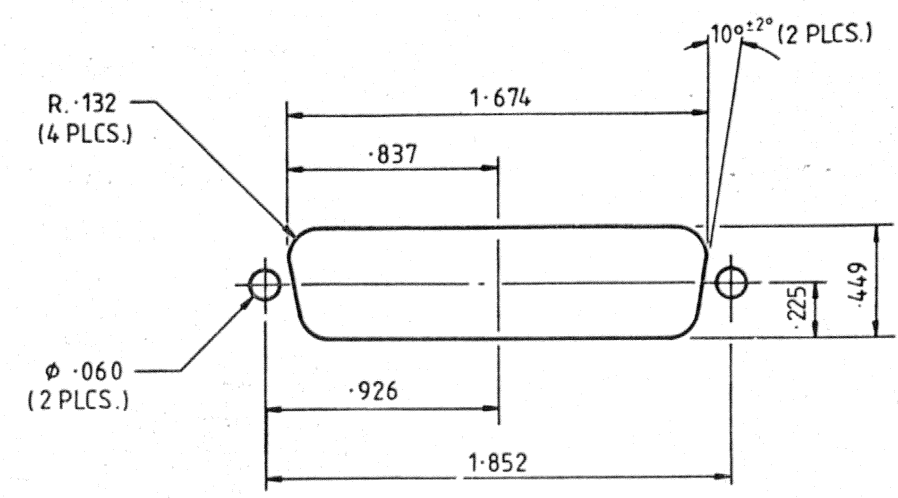
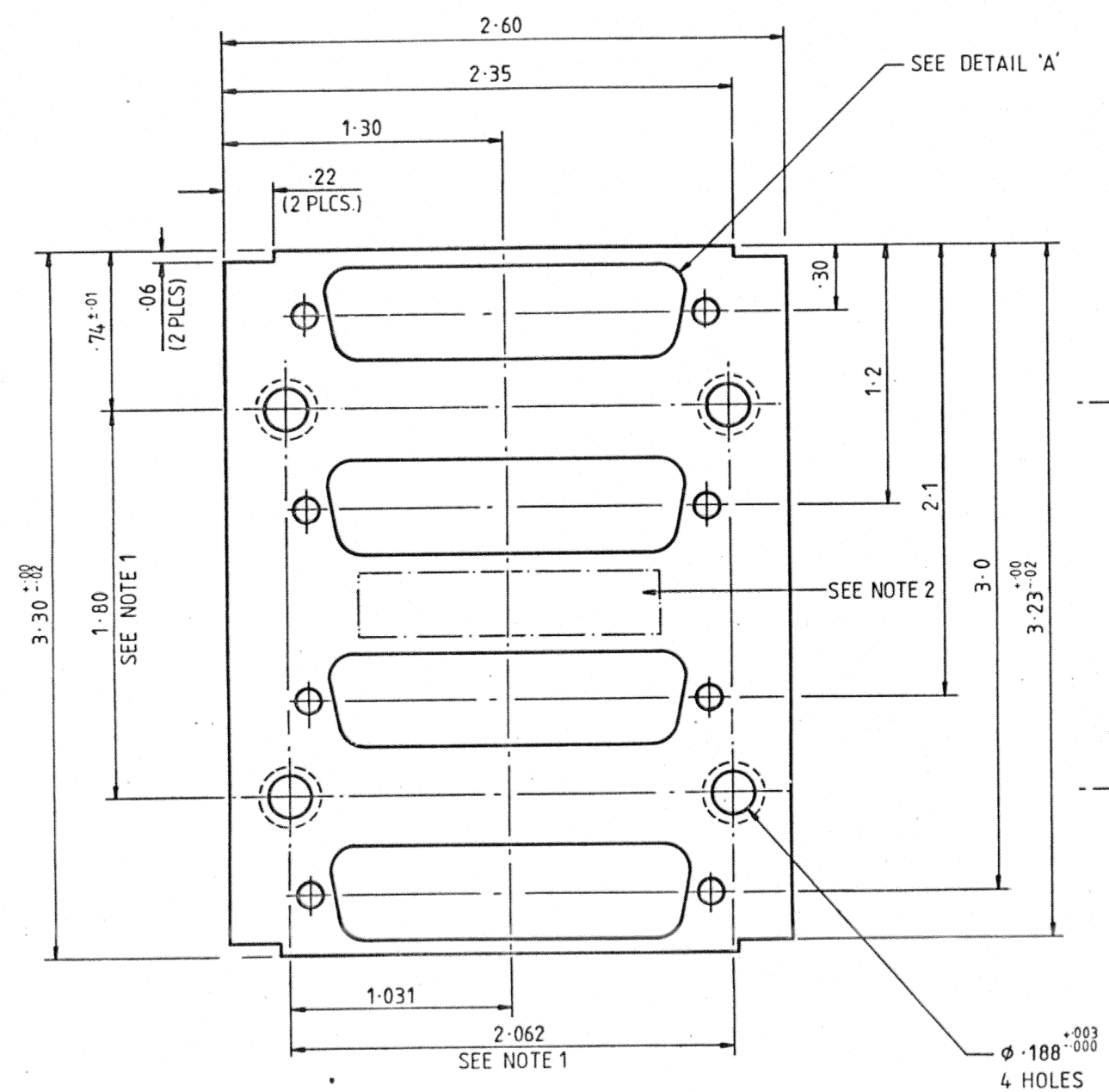


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DRN	DATE	TITLE	digital
CHKD	DATE	50-15588-01	
DES ENG	DATE	50-15588-01	
RESP ENG	DATE	50-15588-01	
MFG ENG	DATE	50-15588-01	
1	2	3	4
5	6	7	8

SIZE CODE
C MD
NUMBER
74-28801-01
REV
A

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DETAIL 'A'

- NOTES:
- 1. DIMENSIONS BETWEEN INSERTS TO BE ±.010 AFTER INSERTION.
 - 2. MARK PART No., REVISION LEVEL & VENDOR ID PER DEC STD. 178 (FARSIDE).

4	THREADED INSERT 6-32 SELF-CLINCHING	90-00015-04	2
1	METAL PLATE	SEE THIS DRAWING	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)		DIMENSIONS RANGE IN INCHES						
INCHES TOLERANCES	ANGLES ± 0° 30'	APPLICABLE DIMENSION RANGE (CHECK ONE)	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 60.0
			☐	☐	☐	☐	☐	☐
.X = ± .1 .XX = ± .02 .XXX = ± .005	SURFACE QUALITY ☒ MICRO INCHES	☐	± .02	± .03	± .05	± .10		
		☐	± .004	± .008	± .012	± .016	± .024	± .04
		☐						

THIRD ANGLE PROJECTION	DRN 3D ENG	DATE 9/83	TITLE digital
DO NOT SCALE DRAWING	CHK'D [Signature]	DATE 14 SEP 83	DHV11 CONNECTOR PLATE
REMOVE BURRS AND BREAK SHARP CORNERS	DES ENG A.J.H. A/S	DATE 14 SEP 83	
	RESP ENG M.J.C.	DATE 14 SEP 83	
MATERIAL 20 GA (.0359) 1010 / 1020 CRS	MFG ENG P.P. BSS	DATE 14 SEP 83	DOCUMENT NUMBER
FINISH 92-B055-XXX	TOP DOC. NO. B-DD-H3173A-0-0	SCALE NTS	SIZE CODE NUMBER REV C MD 74-28801-01 A
			SHEET 01 OF 01

REV.	ECO NUMBER	DATE

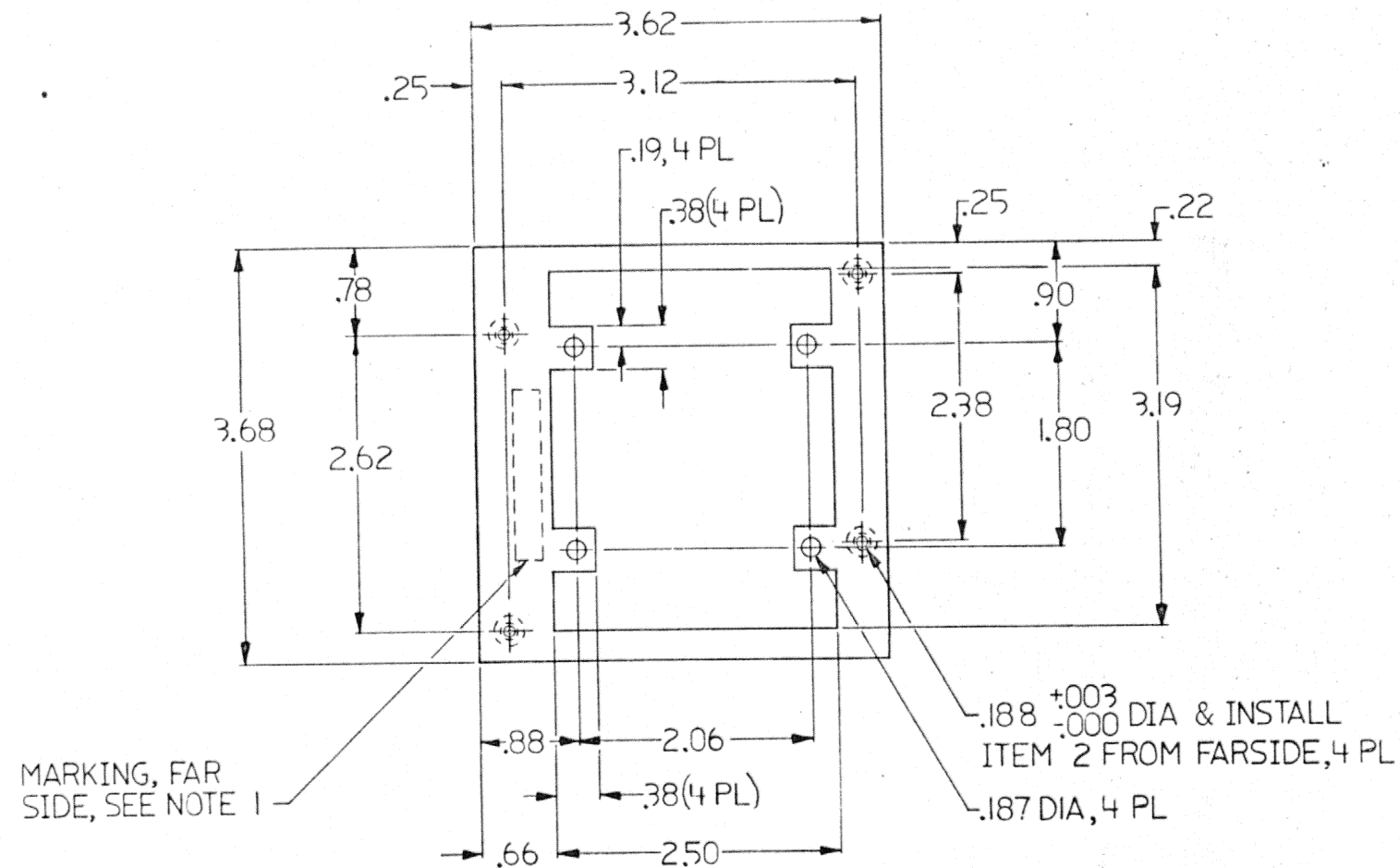
DIMENSIONS IN INCHES

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LEGEND		
PART NO.	REV	VARIATION
7428684-01		AS SHOWN

NOTES

1. MARK PART NO., REVISION LEVEL AND VENDOR I.D., PER DEC STD 178. LOCATE APPROX WHERE SHOWN.



CAUTION: OFFSHEET PARTS LIST EXISTS.
REFER TO K-PL-7428684-0-DBP

QUANTITY & VARIATION		INCHES TOLERANCES		ANGLES ± 0° 30'	SURFACE QUALITY	DIMENSIONS RANGE IN INCHES							ITEM NO
		X = ± .1 XX = ± .02 XXX = ± .005		MICROINCHES		APPLICABLE DIMENSION RANGE (CHECK ONE)	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 60.0	
							± .02	± .03	± .05	± .10			
						± .004	± .008	± .012	± .016	± .024	± .04		

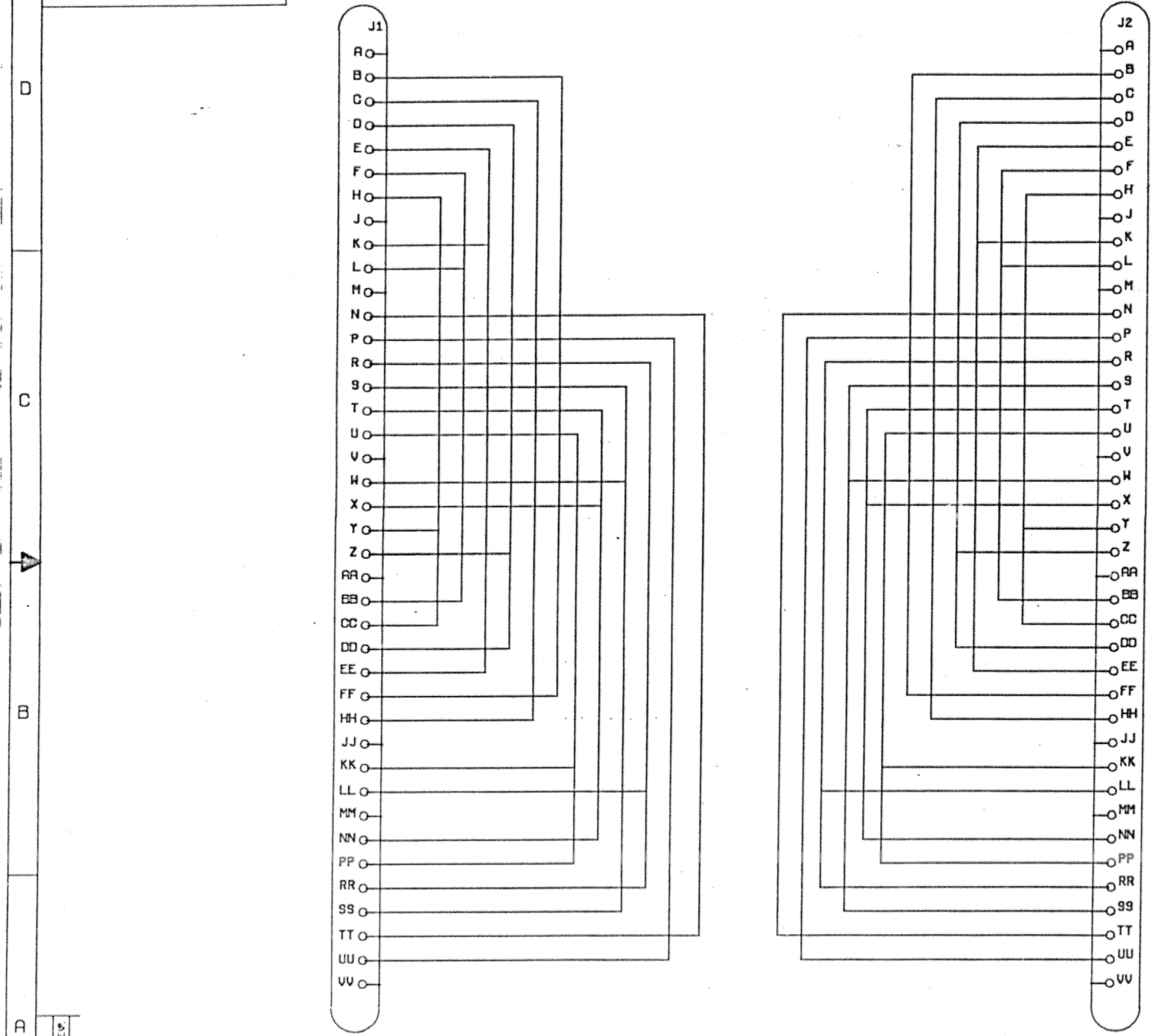
THIRD ANGLE PROJECTION		DRN	DATE	TITLE digital ADAPTOR PLATE	
		NE Nichols	27 Nov 83		
	DO NOT SCALE DRAWING	CHKD	f. husting		DATE 14-SEP-83
	REMOVE BURRS AND BREAK SHARP CORNERS	DES ENG	L. KIZINAT		DATE 16-SEP-83
	MATERIAL 48ABBAA-JJ 1010 CRS.059 THK	RESP ENG	G. MARCHER	DATE 16-SEP-83	
FINISH 092-B055-XXX		MFG ENG	M. LIVINGSTON	DATE 16-SEP-83	
TOP DOC. NO. D-AD-7019964-0-0		DOCUMENT NUMBER			
		SIZE	CODE	NUMBER	REV
		C	IA	7428684-0-0	A
		SCALE		SHEET	OF

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
1	1	D-MD-5015589-0-0	5015589-01	DRILL AND ETCH CUT BOARD	1	
2	2		1209941-02	PCB,HEADER 40PIN(2X20).100CC 90D	2	J1,J2

REVISION HISTORY		BASIC PART NO: H3277		DRN: RITA BUREAU	DATE: 17-JUN-83	D I G I T A L			
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D: BRIAN GOOD	DATE: 17-JUN-83	TITLE PARTS LIST			
	INITIAL	A	SECTION VARIATION INDEX	DES.ENG: A.J. HOLMES	DATE: 17-JUN-83	H3277 TEST BOARD FOR DHV11			
			[A] 00	RESP.ENG.: M. CHAMBERLAIN	DATE: 17-JUN-83	DOCUMENT NUMBER			
			[B]	MFG.ENG.: P. TOOMEY	DATE: 17-JUN-83	SIZE	CODE	NUMBER	REV
			[C]	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	K	PL	H3277-0-DBP	A
			[D]	D-UA-H3277-0-0	B-DD-H3277-0-0	FILE NAME:			EDIT #
			[E]			Z7500A.PLS			2
			[F]	"THIS DRAWING AND SPECIFICATIONS HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT (C) 1983. DIGITAL EQUIPMENT CORPORATION "					
			[H]						
			[J]						
			[K]						
			[L]						
			[M]						
			[N]						

y&HK HH +3

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SIGNAL		BERG CONNECTIONS	
SOURCE	DESTINATION	FROM	TO
TX DATA 0	RX DATA 2	J1-B	J1-FF
TX DATA 2	RX DATA 0	J1-HH	J1-C
TX DATA 1	RX DATA 3	J1-N	J1-TT
TX DATA 3	RX DATA 1	J1-UU	J1-P
DTR 0	RI 2 AND DSR 2	J1-D	J1-Z AND J1-DD
DTR 2	RI 0 AND DSR 0	J1-EE	J1-E AND J1-K
DTR 1	RI 3 AND DSR 3	J1-R	J1-RR AND J1-LL
DTR 3	RI 1 AND DSR 1	J1-SS	J1-S AND J1-W
RTS 0	CTS 2 AND DCD 2	J1-H	J1-Y AND J1-CC
RTS 2	CTS 0 AND DCD 0	J1-BB	J1-F AND J1-L
RTS 1	CTS 3 AND DCD 3	J1-U	J1-PP AND J1-KK
RTS 3	CTS 1 AND DCD 1	J1-NN	J1-T AND J1-X
TX DATA 4	RX DATA 6	J2-B	J2-FF
TX DATA 6	RX DATA 4	J2-HH	J2-C
TX DATA 5	RX DATA 7	J2-N	J2-TT
TX DATA 7	RX DATA 5	J2-UU	J2-P
DTR 4	RI 6 AND DSR 6	J2-D	J2-Z AND J2-DD
DTR 6	RI 4 AND DSR 4	J2-EE	J2-E AND J2-K
DTR 5	RI 7 AND DSR 7	J2-R	J2-RR AND J2-LL
DTR 7	RI 5 AND DSR 5	J2-SS	J2-S AND J2-W
RTS 4	CTS 6 AND DCD 6	J2-H	J2-Y AND J2-CC
RTS 6	CTS 4 AND DCD 4	J2-BB	J2-F AND J2-L
RTS 5	CTS 7 AND DCD 7	J2-U	J2-PP AND J2-KK
RTS 7	CTS 5 AND DCD 5	J2-NN	J2-T AND J2-X

SIGNAL NAME	RS-232-C	CCITT NO.
PROTECTIVE GROUND	AA	
SIGNAL GROUND	AB	102
TRANSMITTED DATA	BA	103
RECEIVED DATA	BB	104
REQUEST TO SEND	CA	105
CLEAR TO SEND	CB	106
DATA SET READY	CC	107
DATA TERMINAL READY	CD	108/2
RING INDICATOR	CE	125
DATA CARRIER DETECT	CF	109

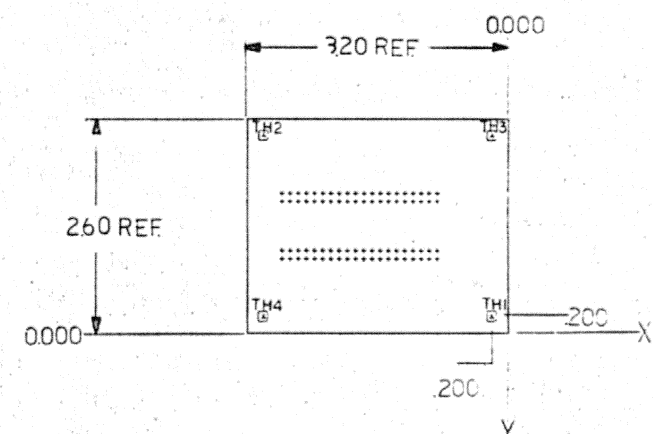
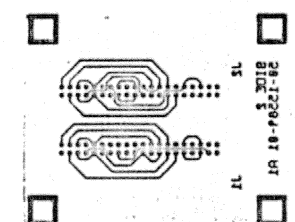
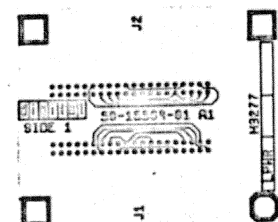
FILE NAME H3277CA00.COM

DRN	DATE	digital
J. DUNN		
CHKD.	DATE	H3277 TEST BOARD
R. MARTIN		
DES. ENG.	DATE	DOCUMENT NUMBER
T. HOLMES		
RESP. ENG.	DATE	H3277-0-01A
M. CHAMBERLAIN		
WFO. ENG.	DATE	SHEET 01 OF 01
P. TOOMEY		
TOP DOC. NO.	B-00-H3277-0-0	

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DMD 5015589-001 A

VIEWED FROM SIDE 1
COMPONENT SIDE



2700 REF
1700 REF
H MASTER Q
REF

CHANGE NO. REV	FOR HOLE TOLERANCES USE DEC STD 176										DESIGN INFORMATION										FABRICATION INFORMATION										TOLERANCES									
	SYMBOL										CIRCUIT SIZE: X 320 Y 260 INCHES										FABRICATE BOARD PER DMD-ELMEL-001 M AS SHOWN()										INCHES UNLESS SPECIFIED									
	FIN HOLE SIZE 038 152										CIRCUIT TYPE: PPE() PTH() ML()										SOLDER MASK, SIDE 1() SIDE 2() NONE()										.XXX ± .010 ANGLES									
	PLATED										CIRCUIT HD15X15()																				.XX ± .020 ±0 DEG 30 MIN									
	NON PLATED										TECHNOLOGY: 50() HD12X13() H20() OTHER()										SPECIFICATIONS AND STANDARDS:										.X ± .100									
	DTY										UL REQUIREMENTS LPWR() HPWR()										MATERIALS AND WORKMANSHIP FOR ALL FABRICATED PRINTED WIRING										SIGNATURES									
	()=OFF GRD HOLE										CIRCUIT OUTLINE & FINGER DETAILS: MD-ELN-2-12-00 M AS SHOWN()										BOARDS MUST MEET OR EXCEED THE REQUIREMENTS OF DEC STD 176.										DATE									
	DRILL SIZE										LAYER CONSTRUCTION PER DMD-ELN-629-1-0 M AS SHOWN()										SPECIAL NOTES:										DRN: Ronald Blanton									
	NOTE: ALL HOLE LOCATIONS ARE DESIGNED ON .025 GRID INCREMENTS FROM DATUM UNLESS SYMBOL IS CIRCLED.										ARTWORK LAYOUT: MANUAL() CAD() SC17										SR 2AC15										CHK'D: Ron Blanton									
											ENG SPECIAL FEATURES:																				MECH ENG: 8/3/87									
										SPECIAL NOTES:																				PRDJ ENG: 8/3/87										
																														MFG ENG: James T. Cuddy										
																														SCALE: 1:1										
																														SHEET OF 1										
																														TOP DOCUMENT NO: DMD-5015589-001										
																														SIZE CODE NUMBER REV										
																														D MD 5015589-001 A										
																														ETCH REV:--										
																														1 WO# 275226										

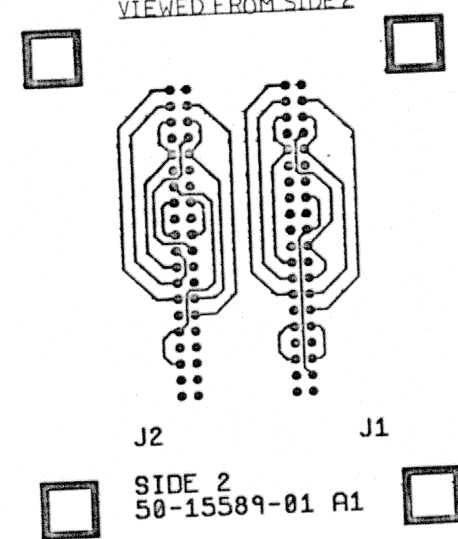
digital	
TITLE: CIRCUIT DRILL AND ETCH DRAWING	
SIZE	CODE
D	MD
NUMBER 5015589-001 A	
ETCH REV: 1	

1 W0# 275226

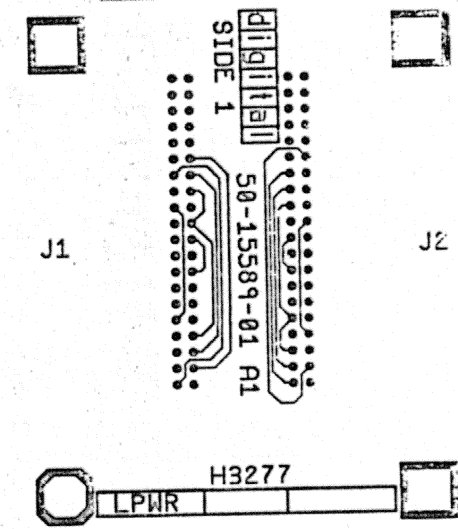
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0-0-685589-01 DEC 5015589-01

VIEWS FROM SIDE 2



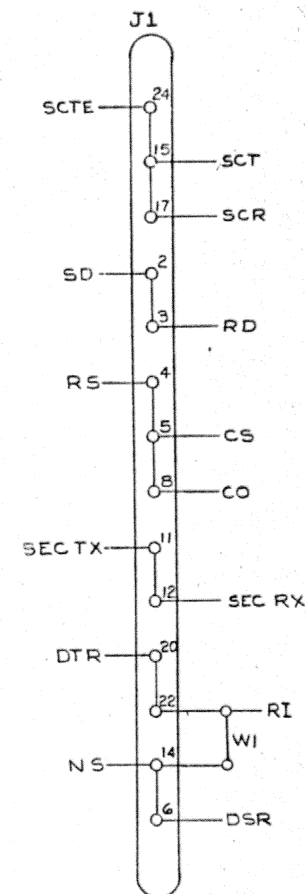
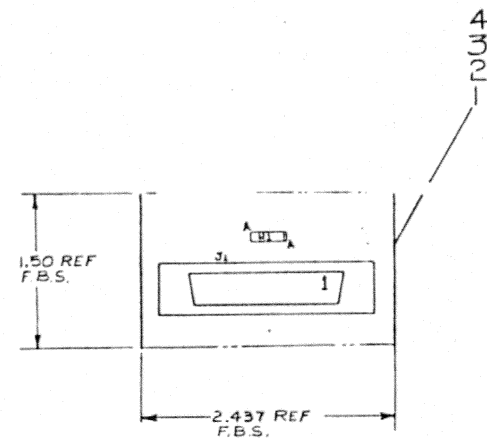
VIEWS FROM SIDE 1



REV	ECO NUMBER	DATE
1		

DRW: <i>Ronald R. Rumble</i>	DATE: <i>4/2/83</i>	TITLE: <i>digital</i>	
CHKD: <i>Ken. d. Harting</i>	DATE: <i>24 Jun 83</i>	ETCH CUT DRAWING	
DES. ENG: <i>BSS</i>	DATE: <i>27 Jun 83</i>	DOCUMENT NUMBER	
RESP. ENG: <i>BSS</i>	DATE: <i>27 Jun 83</i>	SCALE: <i>2:1</i>	
MFG. ENG: <i>BSS</i>	DATE: <i>27 Jun 83</i>	SHEET: <i>1</i> OF <i>1</i>	
TOP DOC NO. <i>6-00-5015589-0-0</i>		NUMBER: <i>5015589-0-0</i>	
		REV: <i>A</i>	

NOTES:



REF	DESCRIPTION	QUANTITY	UNIT
REF	X-Y COORDINATE HOLE LOC	KCO-H325-0-4	1
REF	ASSY/DRILLING HOLE LAYOUT	DAM-H325-0-5	2
REF	MODULE ECO HISTORY	B-MH-H325-0-6	3
1	ETCHED CIRCUIT BOARD	5011678	4
1	JI CONNECTOR	1210247	5
1	WI INSULATED JUMPER WIRE	9009185	6

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
-----	------------------	-------------	----------	----------

MODEL										
	PARTS LIST									
ETCH BOARD REV.	C									

DRN. <i>mm 9</i>	DATE <i>1-1-68</i>	••••••
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CHIEF DATE 4/23/79 digital

ENG	DATE	TITLE
PROJ ENG	DATE	

H325 TEST

PROD.	R. Well	DATE	4-24-75
NEXT INSPECTION			

CONNECTOR

			D-0A-DV11-0-0	SIZE D	CODE C6	NUMBER H326-0-1	REV. I
--	--	--	---------------	-----------	------------	--------------------	-----------

[illegible]

2

GND AND 5V ARE USUALLY PIN 7 AND 14
RESPECTIVELY EXCEPTIONS ARE STATED ABOVE

IC PIN LOCATIONS

CHK	CHANGE NO.	REV.
	ORIGINATED	A
100	H325-000CI	B
	6-25-78	
	F. ZERESKI	
	2nd Bldg 4th	

REVISIONS		
	DEC NO.	
	SEMICO	

EIA NO.	DEC

INDUCTOR CONVER

NO.	EIA NO.

SION CHART

DRN.	100	
CHNO	100	
ENG	100	
PROJ. ENG	100	
PROD.	100	
NEXT HIGHER ASSY		
D-UA-DVII-0 -		
SCALE	1:1	
SHEET	1	OF 1

DATE 1/23/75	d				
DATE 1/23/75					
DATE 1/24/75					
DATE 1/24/75					
DATE 1-23-75					
0	TITLE HJ CO				
	<table><tr><td>SIZE</td><td>CODE</td></tr><tr><td>D</td><td>CS</td></tr></table>	SIZE	CODE	D	CS
SIZE	CODE				
D	CS				
	DIST. <table><tr><td></td><td></td><td></td></tr></table>				

igital
325 TEST
CONNECTOR
NUMBER
H325-0-1

REV.	B
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DEC NO.	EIA NO.	DEC NO.	EIA NO.
SEMICONDUCTOR CONVERSION CHART			

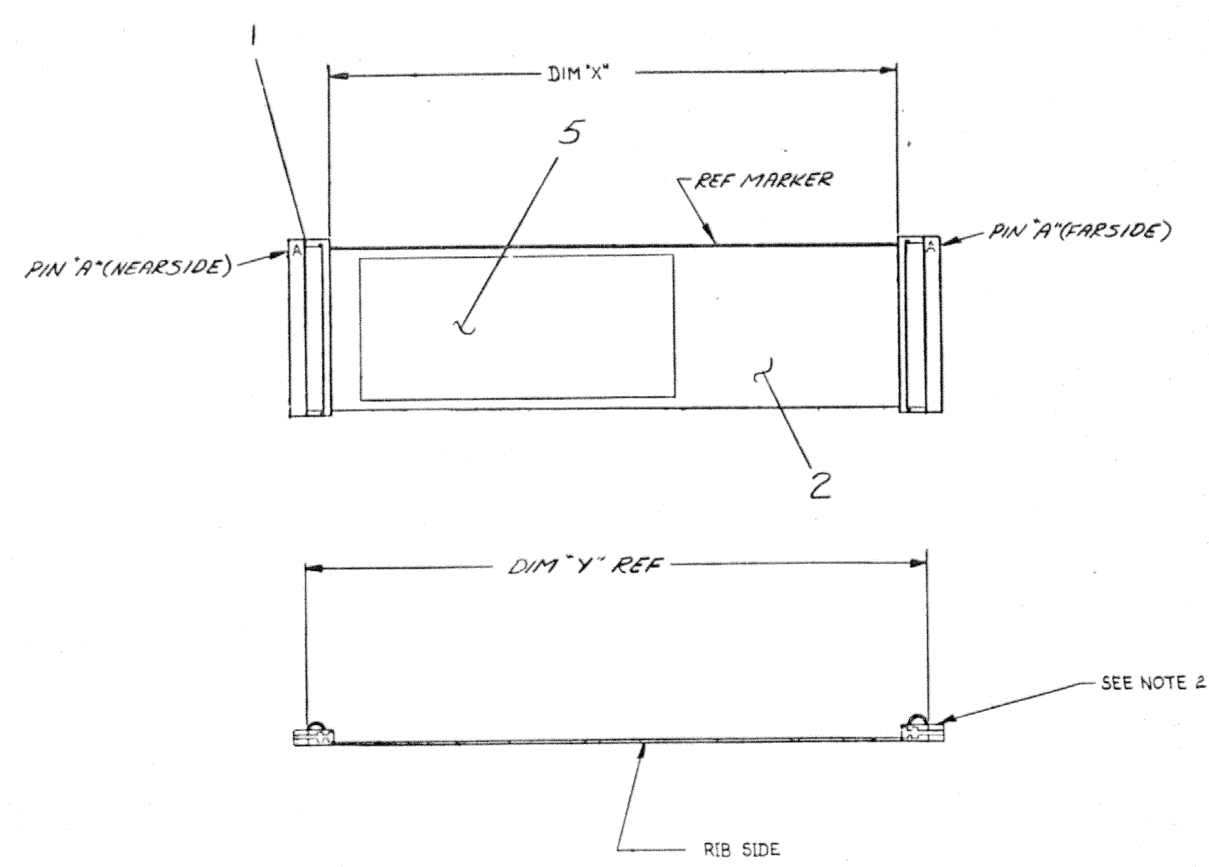
SCALE	1 1
SHEET	1 OF 1

	D	C	
	DIST.		

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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LEGEND		
NUMBER	DIM "X" VARIATION	DIM "Y" (PRECUT) REF
BC05L-0C	3IN ± 0.5IN	4.2 IN.
BC05L-1C	15IN ± 0.5IN	16.2 IN.
BC05L-1J	20IN ± 1.0IN	21.2 IN.
BC05L-2	2FT ± 0.5IN	2 FT, 1.2 IN.
BC05L-3	3FT ± 0.5IN	3 FT, 1.2 IN.
BC05L-4	4FT ± 0.5IN	4 FT, 1.2 IN.
BC05L-5	5FT ± 0.5IN	5 FT, 1.2 IN.
BC05L-6	6FT ± 0.5IN	6 FT, 1.2 IN.
BC05L-7	7FT ± 1.0IN	7 FT, 1.2 IN.
BC05L-8	8FT ± 1.0IN	8 FT, 1.2 IN.
BC05L-9	9FT ± 1.0IN	9 FT, 1.2 IN.
BC05L-10	10FT ± 2.0IN	10 FT, 1.2 IN.
BC05L-11	11FT ± 2.0IN	11 FT, 1.2 IN.
BC05L-12	12FT ± 2.0IN	12 FT, 1.2 IN.
BC05L-13	13FT ± 2.0IN	13 FT, 1.2 IN.
BC05L-14	14FT ± 2.0IN	14 FT, 1.2 IN.
BC05L-15	15FT ± 0.5IN	15 FT, 1.2 IN.
BC05L-16	16FT ± 1.0IN	16 FT, 1.2 IN.
BC05L-0E	5IN ± 0.5IN	6.2 IN.
BC05L-20	20.0FT ± 3.0IN	20FT, 1.2IN ± 3 IN
BC05L-30	30.0FT ± 6.0IN	30FT, 1.2IN ± 6 IN
BC05L-50	50.0FT ± 12.0IN	50FT, 1.2IN ± 12 IN
BC05L-1K	21IN ± 1.0IN	22.3 IN
BC05L-0A	1IN ± .25 IN	2.2 IN
BC05L-0I	1FT ± 0.5IN	13 IN
BC05L-2F	30 IN ± 1 IN	31.3 IN

NOTES:
1. DELETED.
2. PHYSICAL APPEARANCE OF CONNECTOR MAY BE DIFFERENT, DEPENDING ON VENDER PART USED FOR DETAILED DESCRIPTION, REFER TO SPEC. *A-PS-1211206-0-0, LATEST REVISION.
3. ASSEMBLE CABLE, POINT TO POINT WITH RIB SIDE DOWN, SUCH THAT "UU" ON ONE END IS "UU" ON THE OTHER END. THIS SHOULD NOT IMPLY A PHYSICAL TWIST IN THE CABLE TO BE ELECTRICALLY CORRECT.

CAUTION: OFF SHEET PARTS LIST EXISTS. REFER TO K-PL-BC05L-0-DBP.

REV	CHANGE NO	REV	CHANGE NO
A	BC05L-00001	A	BC05L-00001
B	BC05L-00002	B	BC05L-00002
C	BC05L-00003	C	BC05L-00003
D	BC05L-00004	D	BC05L-00004
E	BC05L-00005	E	BC05L-00005
F	BC05L-00006	F	BC05L-00006
G	BC05L-00007	G	BC05L-00007
H	BC05L-00008	H	BC05L-00008
I	BC05L-00009	I	BC05L-00009
J	BC05L-00010	J	BC05L-00010
K	BC05L-00011	K	BC05L-00011
L	BC05L-00012	L	BC05L-00012
M	BC05L-00013	M	BC05L-00013
N	BC05L-00014	N	BC05L-00014
O	BC05L-00015	O	BC05L-00015
P	BC05L-00016	P	BC05L-00016
Q	BC05L-00017	Q	BC05L-00017
R	BC05L-00018	R	BC05L-00018
S	BC05L-00019	S	BC05L-00019
T	BC05L-00020	T	BC05L-00020

FIRST USED OR OPTION/MODEL	QTY	DESCRIPTION	PART NO.	ITEM NO.
TU60				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRWD	DATE	PARTS LIST	
DECIMALS	CHK'D	DATE	DIGITAL EQUIPMENT CORPORATION	
ANGLES	ENG	DATE	MILWAUKEE, WISCONSIN	
XXX - 005	PROJ ENG	DATE	TITLE	
XX - 02	PROD	DATE	CABLE, JUMPER	
X - 1	PROD	DATE		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROD	DATE		
MATERIAL	REXT HIGH/POSS	DATE		
SEE PARTS LIST	D-UA-TU60-0-0	DATE		
FINISH	SCALE	DATE		
	1/1	DATE		
	SHEET	DATE		
	1 OF 1	DATE		