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B-TC-DLV11-F-1	ASYN. LINE INTERFACE (TC)
A-PL-DLV11-F-Ø	ASYN. LINE INTERFACE (PL)
D-UA-M8Ø28-Ø-Ø	DLV11-F ASYN. LINE INTERFACE, M8Ø28
B-PL-M8Ø28-Ø-Ø	DLV11-F ASYN. LINE INTERFACE, M8Ø28
D-CS-M8Ø28-Ø-1	DLV11-F ASYN. LINE INTERFACE, M8Ø28
A-PL-DLV11-F	SHIPPING LIST, DLV11-F
B-UA-BCØ5M-Ø-Ø	CABLE ASSEMBLY, BCØ5M
D-UA-BCØ3L-Ø-Ø	CABLE ASSEMBLY, BCØ3L

[illegible]

Digital Equipment Corporation

[illegible]

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY		CHECKED		SECTION
M. MICHAUD		D. HEATY		
DATE 11 AUG 77		DATE 11 AUG 77		1
ENG <i>M. A. Michaud</i>		PROD <i>M. A. Michaud</i>		ISSUED SECT.
DATE		DATE 8-19-77		1

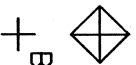
ITEM NO.	DWG NO./PART NO.	DESCRIPTION

[illegible]

TITLE		ASYN LINE INTERFACE (DLV11-F)									
ASSY NO.		NONE									
SHEET 1 OF 1		DIST									
SIZE		CODE		NUMBER				REV		ECO NO.	
A		PL		DLV11-F-Ø				A		DLV11-F-00001	

REWORK INSTRUCTIONS:

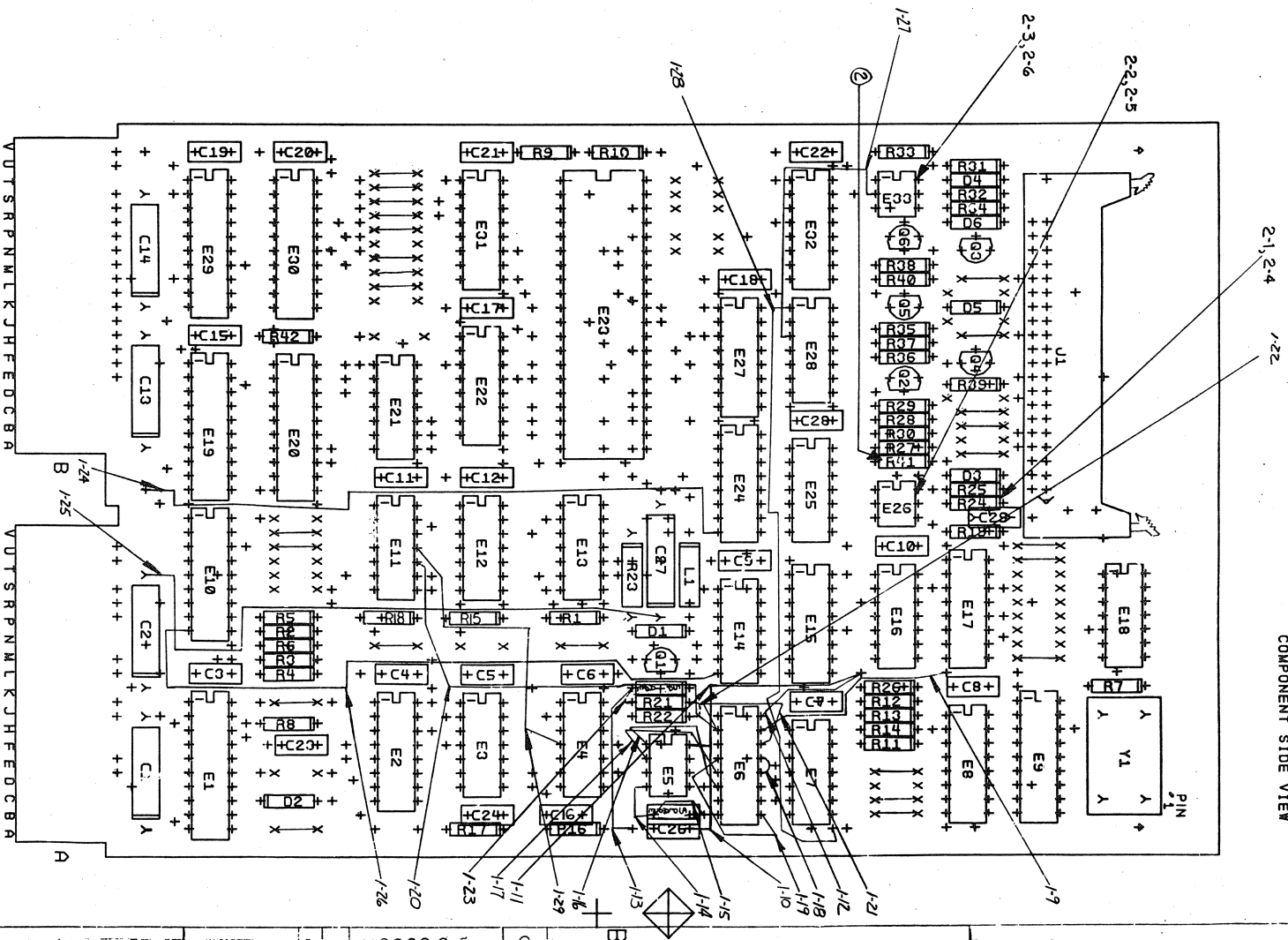
- ETCH CUTS:
- 1-1 55-5 SIDE 2
 - 1-2 55-6 SIDE 1 (UNDER E5)
 - 1-3 55-6 SIDE 2 (RIGHT SIDE OF PIN)
 - 1-4 55-8 SIDE 1 (UNDER E5)
 - 1-5 55-4 SIDE 2 (2 PLACES)
 - 1-6 55-1 SIDE 2
 - 1-7 BOTTOM R21, SIDE 2 (LEFT SIDE)
 - 1-8 533-2, SIDE 2
 - 1-9 WIRE ADDS/SIDE 1 UNLESS OTHERWISE NOTED)
 - 1-10 FEED THRU AT RIGHT OF E17-8 TO E6-15.
 - 1-11 TOP OF C26 TO E5-8.
 - 1-12 E6-16 TO FEED THROUGH BELOW E16-7.
 - 1-13 FEED THROUGH AT LEFT OF BOTTOM OF R21 TO FEED THROUGH BELOW C26.
 - 1-14 FEED THROUGH AT RIGHT OF E5-4 TO E5-4.
 - 1-15 FEED THROUGH AT RIGHT OF E5-4 TO E6-8.
 - 1-16 E5-1 TO E6-6.
 - 1-17 E5-2 TO E6-5.
 - 1-18 E6-13 TO E6-12.
 - 1-19 E6-9 TO E6-4.
 - 1-20 E6-2 TO E11-10.
 - 1-21 E6-14 TO E6-2.
 - 1-22 TOP OF R21 TO TOP OF R22 (SEE NOTE 3)
 - 1-23 BOTTOM OF R21 TO FEED THROUGH AT LEFT OF BOTTOM OF R21 (SEE NOTE 3)
 - 1-24 FEED THROUGH BELOW E19-10 TO E24-8.
 - 1-25 ("") NEG. SIDE OF C2 TO ("") POS. OF C27.
 - 1-26 E10-9 TO E14-7.
 - 1-27 E33-2 TO E28-3.
 - 1-28 E28-1 TO FEED THROUGH AT RIGHT OF E7-8.
 - 1-29 E4-4 TO E11-11
- ECO # 2
- COMPONENT DELETES SIDE 1:
- 2-1 DELETE R24 (PN 1303177)
 - 2-2 DELETE I.C. E26 (PN 1911998-01)
 - 2-3 DELETE I.C. E33 (PN 1911998-01)
- COMPONENT ADDS SIDE 1:
- 2-4 ADD R24 (PN 1300365)
 - 2-5 ADD E24 (PN 1911998-02)
 - 2-6 ADD E33 (PN 1911998-02)



- NOTES:
1. B HOLES .0745 (+.000-.005) PERWARD ONLY
 2. R41 NOT INSERTED
 3. THIS CONNECTION IS MADE ON SIDE 2 BY BENDING THE RESISTER LEAD OVER TO THE ADJACENT FEED THROUGH.

CHK	CHANGE NO	REV
JA	M8028-1	B
JA	M8028-2	C
JA	M8028-3	D
JA	M8028-4	E
JA	M8028-5	F
JA	M8028-6	G
JA	M8028-7	H
JA	M8028-8	I
JA	M8028-9	J
JA	M8028-10	K
JA	M8028-11	L
JA	M8028-12	M
JA	M8028-13	N
JA	M8028-14	O
JA	M8028-15	P
JA	M8028-16	Q
JA	M8028-17	R
JA	M8028-18	S
JA	M8028-19	T
JA	M8028-20	U
JA	M8028-21	V
JA	M8028-22	W
JA	M8028-23	X
JA	M8028-24	Y
JA	M8028-25	Z

COMPONENT SIDE VIEW

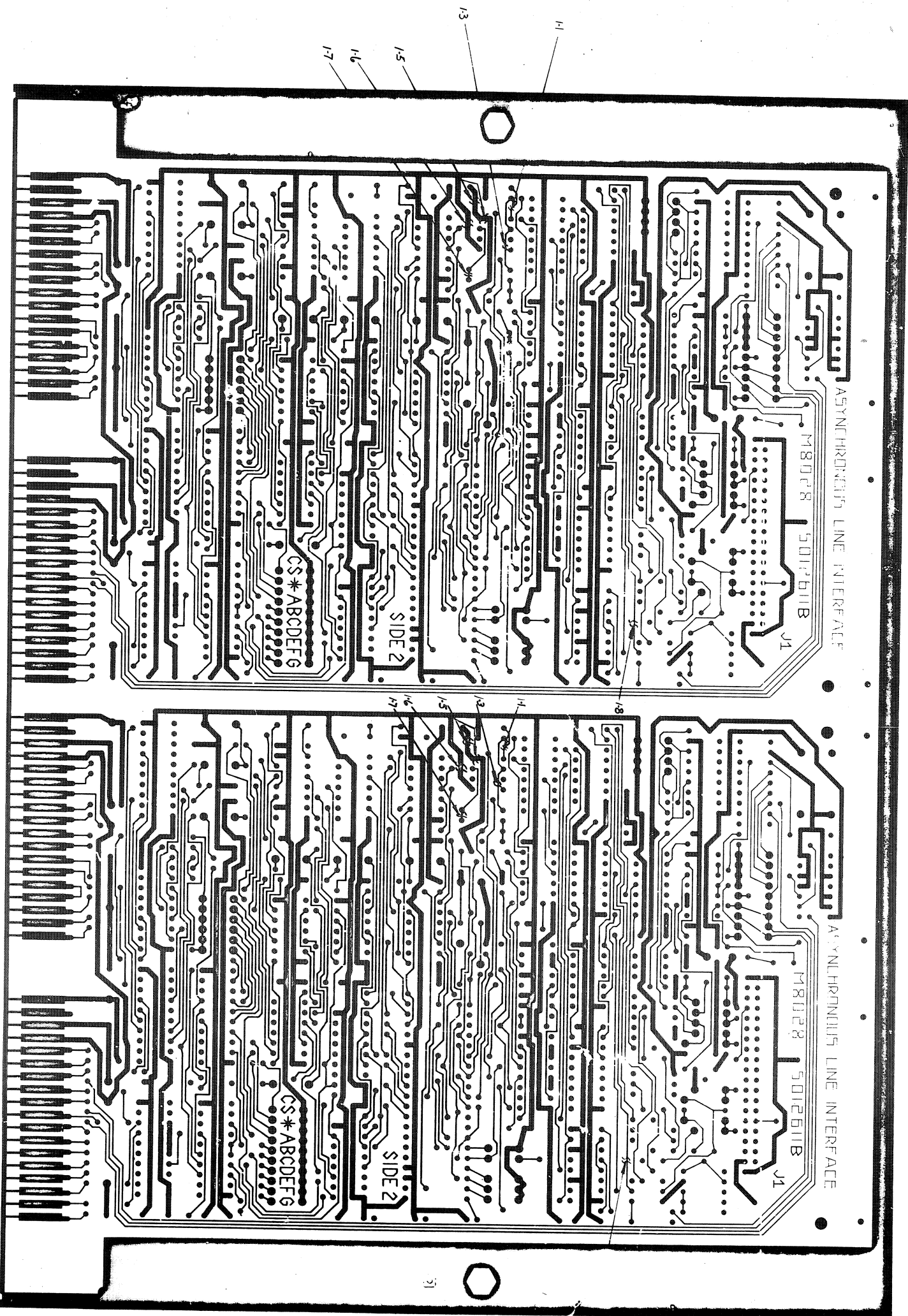


ETCH REV. B
P.C. DESIGN DATA BRSE REV. B

SIGNATURES	DATE
DRN. T. BARK	8-1-77
CHK. D. BARK	8-1-77
ENG. M. BARK	8-1-77
PROD. M. BARK	8-1-77
SCALE 1:1	
SIZE CODE	
SH. 1 OF 3	
NEXT HIGHER REV. B-00-M8028-0-0	

ML

C 0 0 8 2 0 5 W U



REV	DATE	BY
1		

TITLE	SIZE CODE	NUMBER	REV
A L I	D U A	M8028-0-0	C

SCALE 2 - 1 SHEET 2 OF 3

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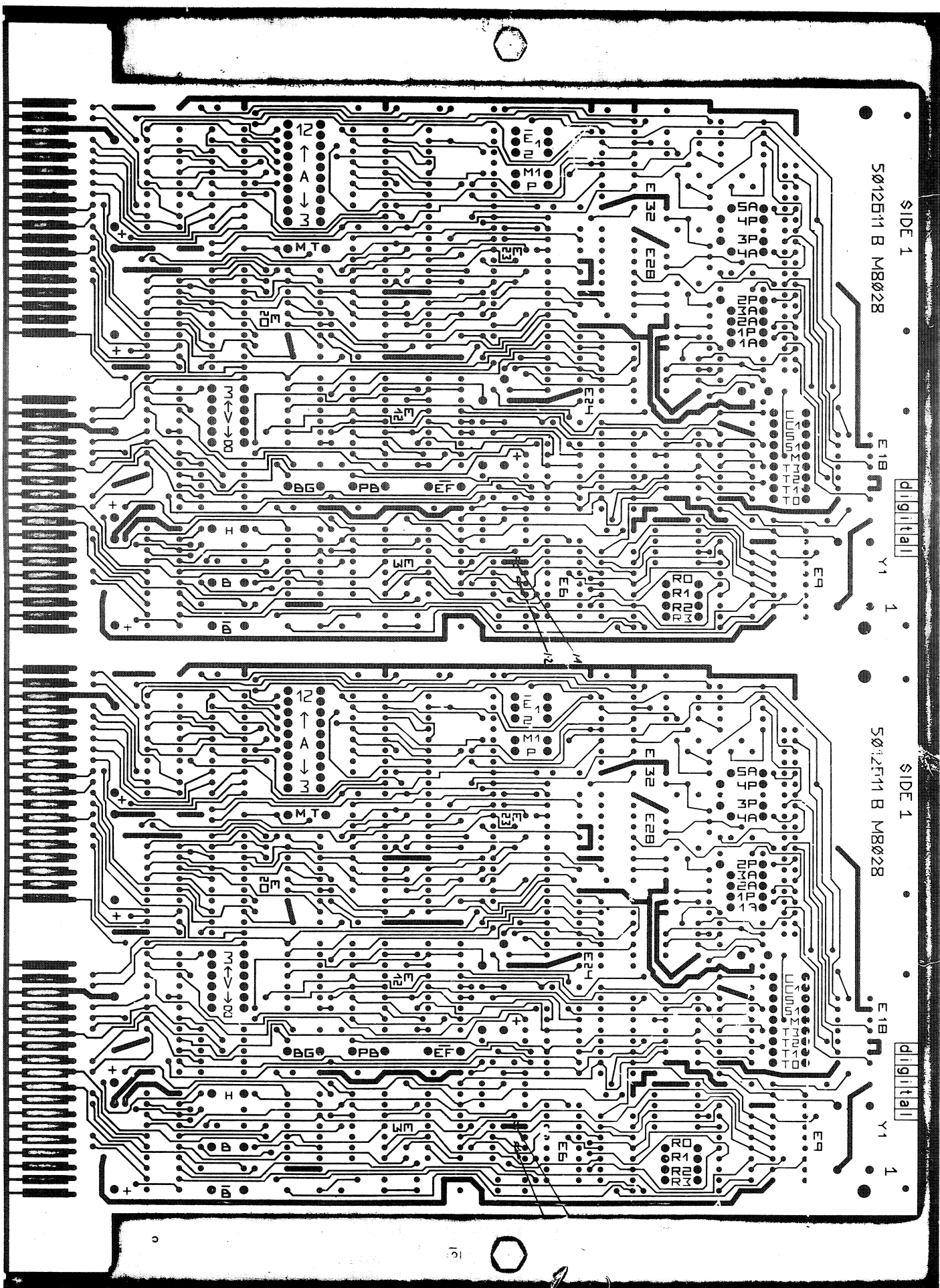
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0-0-8209 M 10/10/2



REVISIONS

CHANGE NO. REV.

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LINE ITEM	DOCUMENT NO.	PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATORS
1	1	1912729-00	DC 004 PROTOCOL, REG. SELECTOR	1	E1
2	2	1912730-00	DC 003 INTERRUPT, 2 CIRCUIT	1	E10
3	3	1913040-00	DC 005 TRANSCIEVER 4BIT	4	E19, E20, E29, E30
4	4	1811660-02	OSCILLATOR, CRYSTAL, 5.0688MHZ, 14PIN DIP	1	Y1
5	5	1912805-00	LS08 AND GATE-QUAD 2IN, POSITIVE	2	E4, E13
6	6	1912803-00	LS04 INVERTER GATE-HEX 1IN	1	E11
7	7	1912799-00	LS00 NAND-GATE-QUAD 2IN, POSITIVE	1	E3
8	8	1911579-00	8641 TRANSCIEVER, BUS, QUAD, UNIBUS	1	E2
9	9	2112623-00	DUAL BAUD RATE GEN/PROG DIVIDER, MOS 18P	1	E9
10	10	1912867-00	LS298 MUX 1 OF 4, 2IN W/STORAGE	1	E8
11	11 (SEE NOTE 66)	1913414-00	LS14 INVERTER GATE-HEX SCHMITT TRIG	1	E16
12	12	1912801-00	DEC LS02 NOR GATE-QUAD 2IN	1	E14
13	13	1912813-00	LS27 NOR GATE-TRIPLE 3IN	1	E7
14	14	1912816-00	LS32 OR GATE-QUAD 2IN, POSITIVE	1	E12
15	15	1912824-00	LS74 FF-D DUAL, EDGE TRIGGER, POS	2	E25, E21
16	16	1912845-00	LS153 MUX 1 OF 4 (DUAL) & DATA SEL	1	E17
17	17	1911527-00	8097 BUFFER GATE-HEX 2INPUT TRI-STA	2	E22, E31
18	18	1912647-00	LS257 MUX 1 OF 2 (QUAD) TRI-STA	3	E24, E27, E32
19	19	1912849-00	LS161 COUNTER, SYNCH, 4BIT BINARY	1	E15
20	20	1910322-00	DEC 1488L DRIVER, LINE, QUAD, EIA RS-232C	1	E18
21	21	1910323-00	DEC 1489L RECEIVER, LINE, QUAD, EIA RS-232	1	E28
22	22	2111450-00	UART 40K BAUD VARIATION OF 19-10459-00	1	E23
23	23	1914432-00	75454 DRIVER, PERIPH, DUAL, NOR	1	E5
24	24	1911998-02	AN26-20PTG COUPLED ISLTR	2	E26, E33
25	25	1001765-00	5000.0 MMF 100V 20% Z5U DISC#	1	C29
26	26	1000024-00	470.0 MMF 100V 5%200PFM DIM55	3	C23, C24, C28
27	27	1001610-01	.01 MFD 100V OR 50V Z5U DISC/800PF MIN	18	C3-C12, C15, C17-C22, C26
28	28	1012084-01	8 MFD 25V 6% 30D AL EL	4	C1, C2, C13, C14
29	29	1005306-00	6.8MFD 35V 10% 150D S.1A	1	C27
30	30	1105275-00	D 672 TR= 15NS PIV= 60V SP	4	D1, D3-D5

REVISION HISTORY VARIATIONS FOR THIS ASSY.

FIRST USED ON:

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

CHK ECD NO REV 00

MADE BY: F SMART

DATE: 26-MAY-78

TITLE

PARTS LIST

CHECKED: F SMART

DATE: 26-MAY-78

ASYNCHRONOUS LINE INTERFACE

DSN, ENG.: M MICHAUD

DATE: 26-MAY-78

SIZE CODE: DOCUMENT NUMBER REV

PROD.: KM

DATE: 26-MAY-78

K PL M8028-0-DBF IC

RESP, ENG.: M MICHAUD

DATE: 26-MAY-78

ASSY, NO.: D-UA-M8028-0-0

EDIT# 4

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LINE ITEM	DOCUMENT NO.	PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATORS
31	31	1105610-00	MCL1301 CLEIMA FROM10-80V	1	D6
32	32 (SEE NOTE 68)	1109502-01	Z 6214 VZ= 12.0 2%	1	D2
33	33	1300479-00	10 K 1/4W 5%	9	R1,R11-R15,R18,R19,R42
34	34	1300365-00	1 K 1/4W 5%	7	R7,R8,R16,R35,R36,R38,R24
35	35	1300295-00	330 1/4W 5%	3	R2,R4,R5
36	36	1300229-00	100 1/4W 5%	1	R21
37	37	1301424-00	680 1/4W 5%	3	R3,R6,R29
38	38	1303177-00	2.4 K 1/4W 5%	2	R9,R10
39	39	1300391-00	1.5 K 1/4W 5%	1	R17
40	40	1915249-00	74390 COUNTER,DECADE-DUAL,4BIT	1	E6
41	41	1300316-00	470 1/4W 5%	1	R22
42	42	1312384-05	82 1W 5%	1	R23
43	43	1300271-00	220 1/4W 5%	1	R25
44	44	1301972-00	270 1/4W 5%	1	R26
45	45	1301322-00	180 1/4W 5%	2	R27,R33
46	46	1300316-00	470 1/4W 5%	1	R28
47	47	1300219-00	68 1/4W 5%	1	R30
48	48	1300202-00	47 1/4W 5%	4	R31,R32,R39,R40
49	49	1301327-00	68 K 1/4W 5%	1	R34
50	50	1300432-00	3 K 1/4W 5%	1	R37
51	51	1510706-00	XA 55 FNP 500MM SI 60 50 P	3	R2-R4
52	52	1515018-00	2N 2905A FNP 600MM SI 40 100	1	R1
53	53	1510705-00	XA 05 FNP 500MM SI 60 50 P	2	R5,R6
54	54	1602723-02	270 UH 10% 260MA #WEE270	1	L1
55	55	1209941-02	HEADER 100 40POS RT ANGLE	1	J1
56	56 (SEE NOTE 67)	9009149-01	FIN, STAKING, P.C. BOARD, .025 SQUARE	100	
57	57	9008337-06	HANDLE, FLIP CHIP, MAGENTA	1	
58	58	1209941-04	HEADER RT ANGLE,RIGHT LATCH FOR	1	
59	59	1209941-03	HEADER RT ANGLE LEFT LATCH FOR	1	
60	60	1010279-00	.47 MFD 25V 20% 2C023 CER.\$	1	C16
61	61	9009781-00	SPACER, MODULE, MAGENTA	1	
62	62	910574C-55	WIRE(WRAP)30AWG UL1423 (91-00 A/R	1	
63	63 D-MD-5012611-0-0	5012611-00	M8028	1	
64	64	9007201-00	TRANSIFADS #10253	1	
65	65	9006732-00	EYELET, ROLLED FLANGE, .121 OD X .219 LG	4	

66 NOTE: IF 1913414 IS NOT AVAILABLE, USE 191324(7414)

67 NOTE: IF 9009149-01 IS NOT AVAILABLE, USE 9009149-00.

68 NOTE: THIS PART IDENTIFIES THE CATHODE WITH A SILVER BAR

ITEM	TITLE	PARTS LIST	SIZE/COE	DOCUMENT NUMBER	REV
DIGITAL EQUIPMENT CORPORATION	ASYNCHRONOUS LINE INTERFACE				
MAYNARD, MASSACHUSETTS			K PL	M8028-0-DRP	IC

* TRANSMITTER

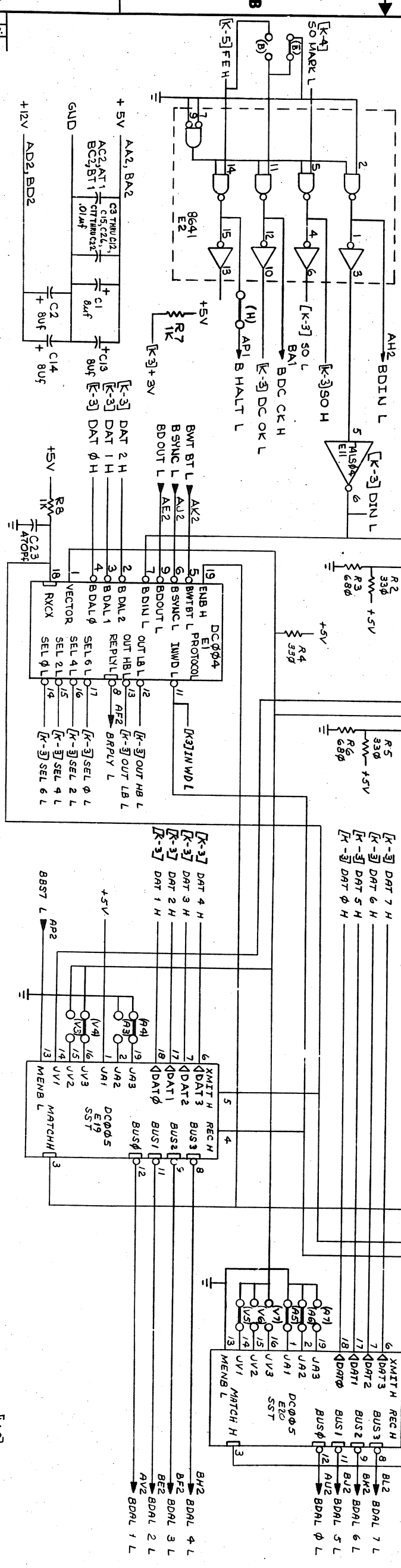
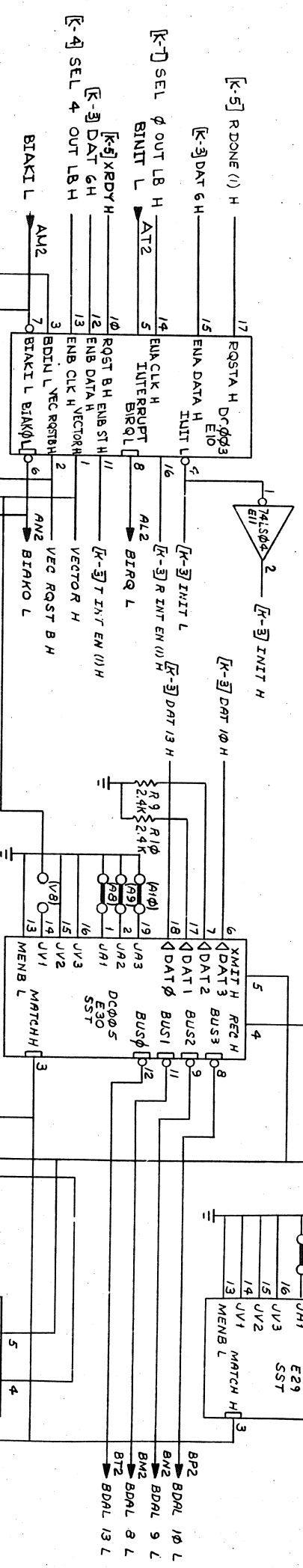
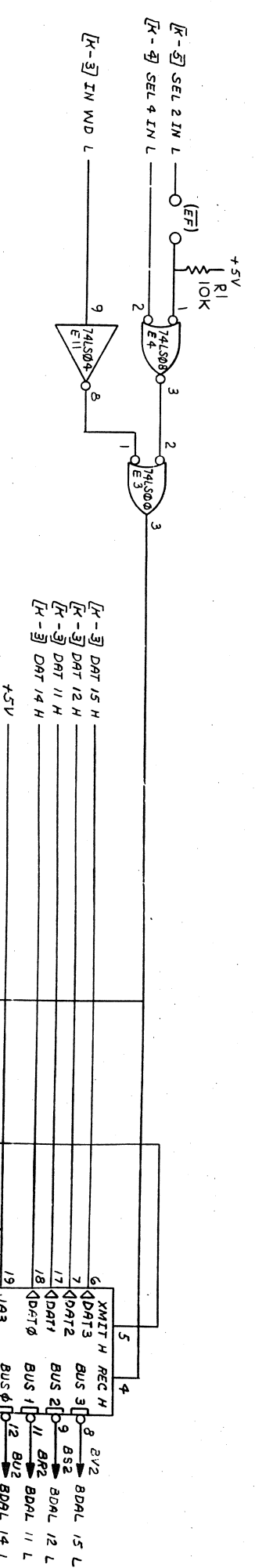
SEE NOTE # 3

- SEE NOTE #3*

1. * MODULE SHIPPED FROM FACTORY IN THIS CONFIGURATION.
2. CONFIGURATIONS SHOWN FOR DEVICE AND VECTOR ADDRESSES ARE ONLY A FEW EXAMPLES. FOR A COMPLETE LIST SEE DLVIL-E/ DLVIL-F USERS MANUAL.
3. ADDRESS SETUP DIAGRAMS PROVIDED FOR USERS CONVENIENCE.

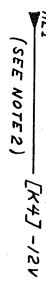
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2	SIZE CODE	NUMBER	REV.
5	1-800	1	C



DEC FORM 100-0	REVISIONS		
	CHK	CHANGE NO.	REV

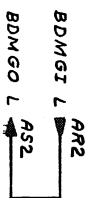
DIN.				FIRST USED ON		K-31	
CHK'D						digit	
ENG.				TITLE			
PROD. ENG.				ASYNC LINE INTERFACE			
PROD.				BUS RECEIVERS & DRIVERS			
NEXT HIGHER ASSY.							
SCALE <u>1/4</u>		SIZE CODE		NUMBER		REV.	
SHEET <u>2</u> OF <u>6</u>		D CS		M8028-Q-1		C	
DIST.							



[K-9]

[K-9]

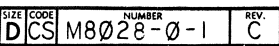
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SIZE CODE	NUMBER	REV.
D CS	M8028-0-1	C
DIST.		

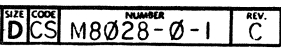
K-5

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(INTERNAL BUS DRIVERS & RCVR BUSY CKT) [K-6]

TITLE		SIZE/SCALE		NUMBER		REV.	
ASYN LINE INTERFACE		D US		M8028-0-1		C	
SCALE — 1/4" = 1"		SHEET 5 OF 6		DIST.			



1. NUMBERS WITHIN BOXES REFER TO PINS ON THE MALE CINCH CONNECTOR WHEN USING THE BCS-5 SCB01 OR SCB01 CABLES. THESE CABLES ALSO CONNECT J1 PIN M TO PIN E.
2. NUMBERS WITHIN TRIANGLES REFER TO PINS ON THE FEMALE MATE-N-LOK CONNECTOR WHEN USING THE BCS-M CABLE. THIS CABLE ALSO CONNECTS J1 PINS H TO E.

[K-7]

TITLE	SIZE CODE	NUMBER	REV.
ASYN LINE INTERFACE	DCS	M8028-0-1	C
SCALE 1/4"	SHEET 6 OF 6	DIST.	

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DIGITAL EQUIPMENT CORPORATION

LEGEND		
NUMBER	VARIATION	ITEM # 1
BCØ5M-2C	LENGTH 27 IN.	7008360
BCØ5M-04	48 IN.	7008360-1

NOTES:
1. FOR ASSEMBLY SEE D-1A-7008360-0-0.

REVISIONS		
CHK	CHANGE NO.	REV.
LY	BCØ5M-00001	A
1 Chardon 1-19-76		
M.E. LEWANDOWSKI		
M.E. Lewandowski 1-22-76		

FIRST USED ON OPTION/MODEL		1 CABLE ASSY		SEE LEGEND		1
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES		QTY.		DESCRIPTION		PART NO.
TOLERANCES		DATE		DATE		ITEM NO.
DECIMALS		ANGLES		DATE		
.xxx = .005		±0° 30'		DATE		
.xx = .02		DATE		DATE		
.x = .1		DATE		DATE		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓		DATE		DATE		
MATERIAL		DATE		DATE		
SEE PARTS LIST		DATE		DATE		
FINISH		DATE		DATE		
NEXT HIGHER ASSY.		DATE		DATE		
SCALE		DATE		DATE		
SHEET		DATE		DATE		
OF		DATE		DATE		
DIST.		DATE		DATE		
SIZE CODE		DATE		DATE		
B UA		DATE		DATE		
NUMBER		DATE		DATE		
BCØ5M-Ø-Ø		DATE		DATE		
REV.		DATE		DATE		
A		DATE		DATE		

digital EQUIPMENT CORPORATION
MAYNARD MASSACHUSETTS

TITLE
BCØ5M
CABLE ASSEMBLY
(KL8-E, KL8-JA)

SEE NOTE #1

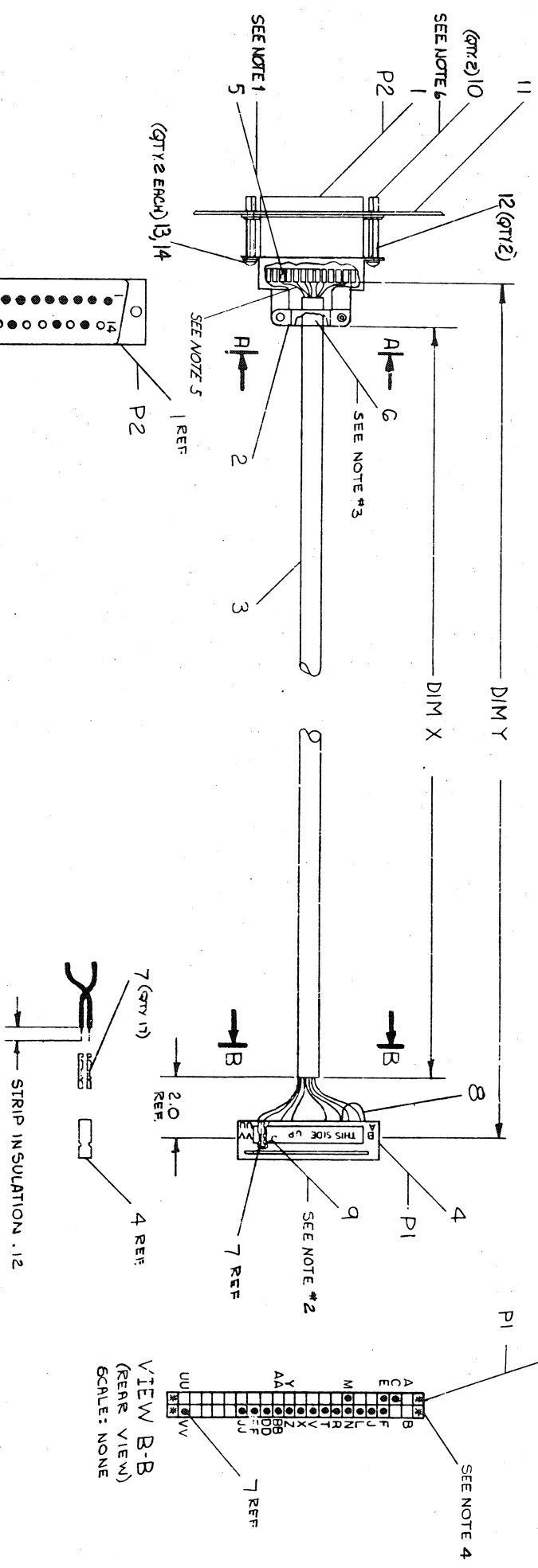
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WIRE TABLE				
ITEM NO.	DESCRIPTION	FROM	TO	WITH
3	22 BLK	P1-VV	P2-7	SOLDER
	GRN/WHI	P1-C	P2-25	
	GRN/BLK	P1-JJ	P2-12	
	ORN/BLK	P1-FF	P2-11	
	RED	P1-DD	P2-20	
	GRN	P1-BB	P2-8	
	BLU/WHI	P1-Z	P2-6	
	ORN	P1-X	P2-22	
	BLU	P1-V	P2-4	
	WHI	P1-T	P2-5	
	BLU/BLK	P1-R	P2-17	
	BLK/WHI	P1-N	P2-15	
	RED/WHI	P1-L	P2-24	
	WHI/BLK	P1-J	P2-3	
3	RED/BLK	P1-F	P2-2	SOLDER
8	BLK	P1-E	P1-M	7
8	22 BLK	P2-1	SOLDER	P2-7

LEGEND			
NUMBER	VARIATION	DIM. "X"	DIM. "Y"
BCØ3L-1Ø	1ØFT ± 2IN	1ØFT, 5IN	
BCØ3L-5	5FT ± 2IN	5FT, 5IN	
BCØ3L-1K	1FT 9IN ± 1IN	2FT	
BCØ3L-Ø1	1FT 1IN	1FT, 3IN	

NOTES

1. EACH SOLDERED CONN ON P2 SHALL BE INSULATED WITH A .25 PIECE OF SHRINK TUBING (ITEM #5)
2. PLACE ITEM #9 (THIS SIDE UPSTICKER) ON LETTERED SIDE OF ITEM #4 (CONN HOUSING) AS SHOWN.
3. FOR STRAIN RELIEF, WRAP 2 TURNS OF TAPE (ITEM #6) AROUND CABLE (ITEM #3) AS SHOWN.
4. PINS MARKED * IN VIEW B-B ARE NOT USEABLE
5. WIRES COMING FROM CENTER OF PLUG CONN. SHOULD BE 5/8" ± 1/32" LONG. ALL OTHERS SHOULD BE 1/2" LONG. INTO HOOD OF CONN. SO THAT THEY ARE NOT BOUNCED.
6. PLACE LOCK WASHER (SUPPLIED WITH ITEM #10) BETWEEN SPACER AND CONNECTOR FLANGE. DISCARD NUT (QTY 2) SUPPLIED WITH ITEM #10.



VIEW A-A
(REAR VIEW)
SCALE: NONE

VIEW B-B
(REAR VIEW)
SCALE: NONE

REVISIONS		
CHK	CHANGE NO.	REV.
BCØ3L-00002	A	1
B. SAMPSON		
BCØ3L-00003	B	2
M.E. LEWANDOWSKI		
BCØ3L-00004	C	3
R. SAMPSON		
BCØ3L-00005	D	4
T. ORR		
BCØ3L-00006	E	5
T. ORR		
BCØ3L-MKØØ7	F	6
T. ORR		

THIRD ANGLE PROJECTION	
REMOVE BURS AND BREAK SHARP CORNERS	DO NOT SCALE DIMS
MATERIAL SEE PARTS LIST	FINISH
SCALE 1/1	DIST
TITLE FILTERED CABLE ASSY BCØ3L	
CHECKED BY DATE APPROVED BY DATE	
NEXT HIGHER ASSY.	

DESCRIPTION		QTY	ITEM NO.
2 WASHER, LOCK #4	9006688	14	
2 SCR. PH. PAN HD #4 X .25	9008301-1	13	
2 SPACER, THREADED, HEX	9008833	12	
1 PLATE, CONN. MFG.	B-MD-714107-0011	1	
2 SCREW, LOCK ASSY	9008451-100	10	
1 LABEL (THIS SIDE UP)	3611567	9	
3 IN WIRE STRANDED #22 AWG IPVC (BLK)	9101350-00	8	
17 SOCKET, CRIMP	1210089-07	7	
R/R TAPE, DOUBLE SIDED .50 W.D.	9007834	6	
16 TUBING, HEAT SHRINK .12	9107255-09	5	
1 CONN., 44 POS., HSG.	1210918-15	4	
R/R CABLE, 15 COND., 22 AWG.	9107672-00	3	
1 HOOD, CONN.	1212516-00	2	
1 CONNECTOR, PLUG, FILTERED	1214031-00	1	