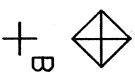


REWORK INSTRUCTIONS:

- ECO #1
- ETCH CUTS:
- 1-1 65-5 SIDE 2
 - 1-2 65-6 SIDE 1 (UNDER E5)
 - 1-3 65-6 SIDE 2 (RIGHT SIDE OF PIN)
 - 1-4 65-8 SIDE 1 (UNDER E5)
 - 1-5 65-4 SIDE 2 (2 PLACES)
 - 1-6 65-1 SIDE 2
 - 1-7 BOTTOM R21, SIDE 2 (LEFT SIDE)
 - 1-8 633-2, 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. ("") NEG. SIDE OF C2 TO ("") POS. OF C27.
 - 1-25 E10-9 TO E14-7.
 - 1-26 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)

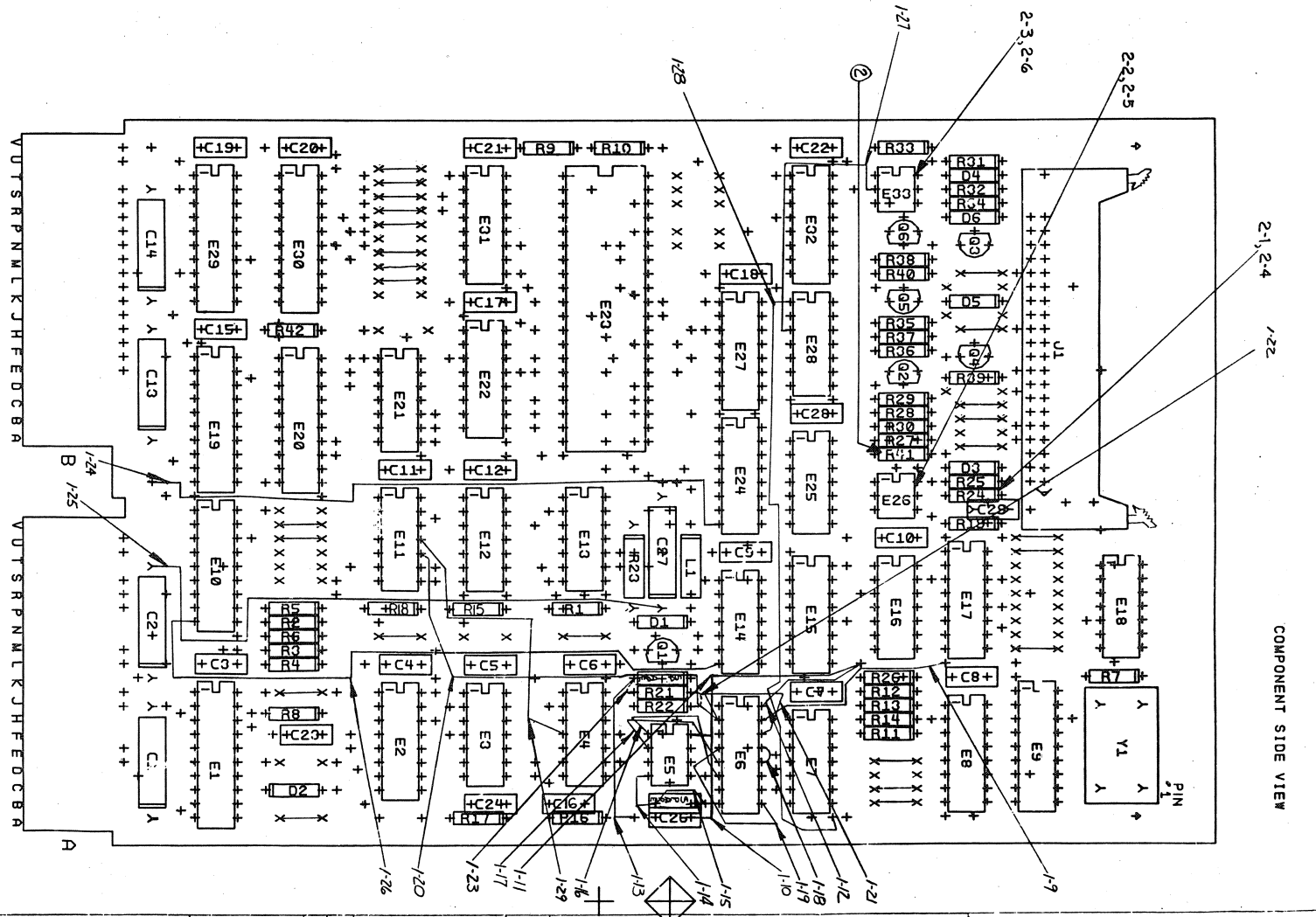


- NOTES:
1. B HOLES, DRYS (+, DRYS -) HAYWARD ONLY
 2. R41 NOT INSERTED
 3. THIS CONNECTION IS MADE ON SIDE 2 BY BENDING THE RESISTER LEAD OVER TO THE ADJACENT FEED THROUGH.

CHK	CHANGE NO	REV
JA	M8028-1	B
W.M.	M8028-2	C
W.F.	M8028-2	C
J.	M8028-2	C

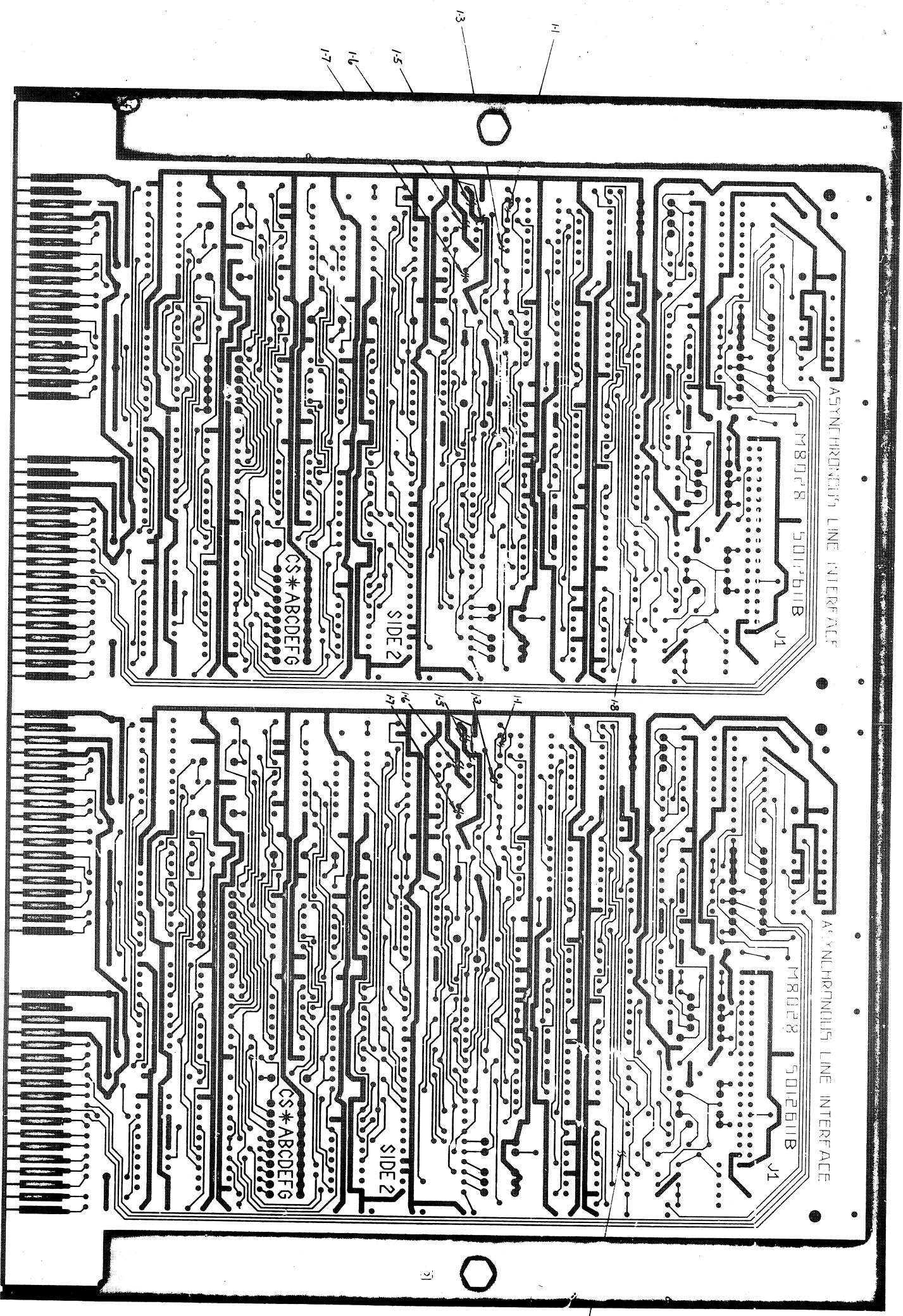
SIGNATURES	DATE
DRN. TEAK SMART	8-1-77
CHK. DITRANK SMART	8-1-77
ENG. DITRANK SMART	8-1-77
PROD. ENG. DITRANK SMART	8-1-77
SCALE 2-1	
SHT. 1 OF 3	

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



M.L.

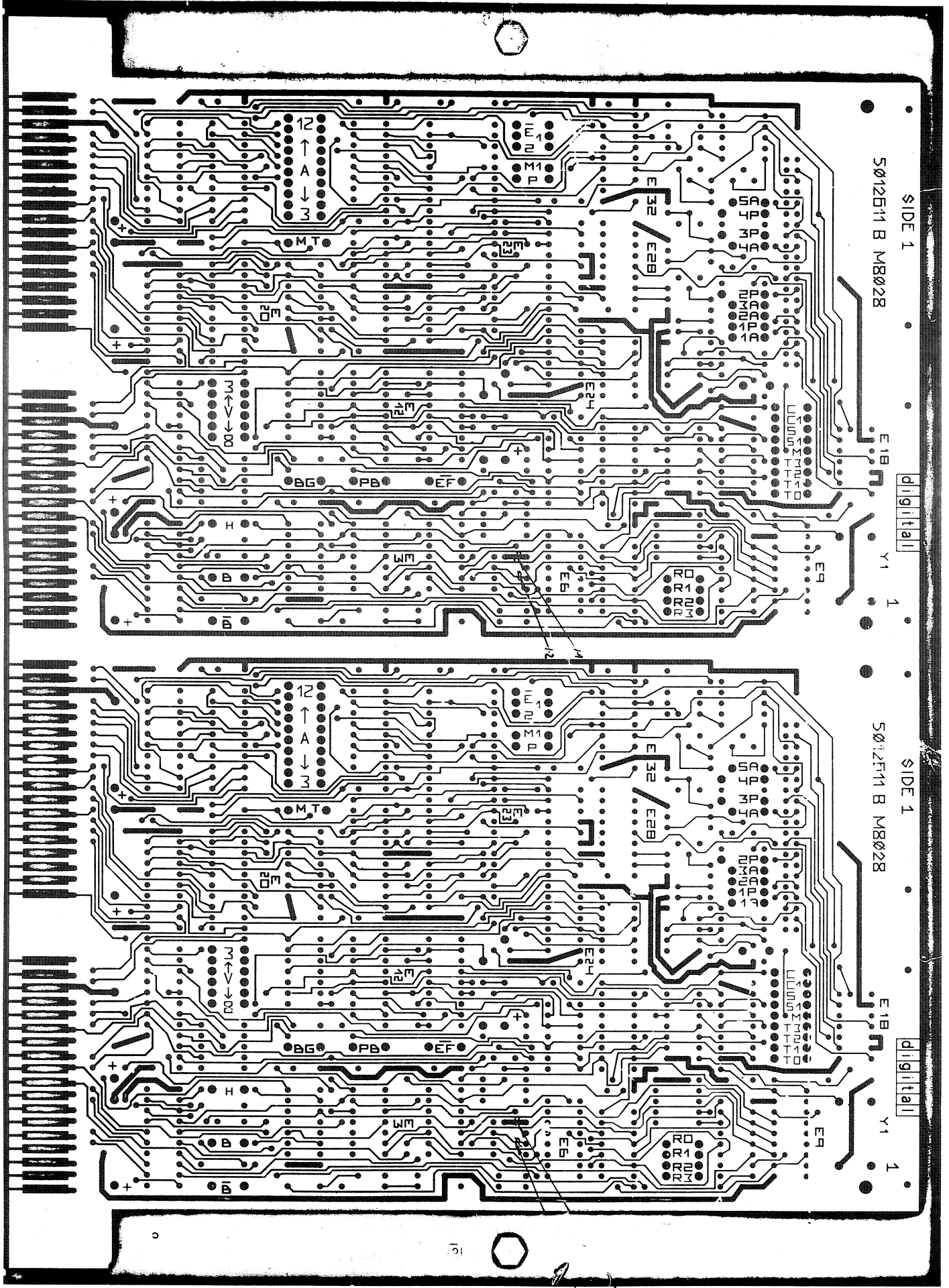
REVISIONS
 1
 CHANGE
 2
 3
 4
 5
 6
 7
 8



C 0 0 8 2 0 5 4 1 U A

REV	C	NUMBER	M8028-0-0
SIZE CODE	DUA	NUMBER	
SCALE	2-1	SHEET	2 OF 3
TITLE	A L I		
TITLE			
SCALE 2-1			
SHEET 2 OF 3			
REV C			
NUMBER M8028-0-0			
SIZE CODE DUA			
REV C			

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REVISIONS	
CHK	REV.

TITLE	A L I
SCALE	2 - 1
SHEET	3 OF 3
DIST.	
SIZE CODE	D UA
NUMBER	M8028-00
REV.	C

NUMBER M8028-00

8 7 6 5 4 3 2 1

A B C D

8 7 6 5 4 3 2 1

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 ARBIT	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	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	1211527-00	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, SYNCHR, ARBIT 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, FERIPH, DUAL, NOR	1	E5
24	24	1911998-02	AN26-20PTG COUPLED ISLTR 6 P	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 DM55 (10-00)	3	C23, C24, C28
27	27	1001610-01	.01 MFD 100V DR 50V Z5U DISC/800PF MIN	18	C3-C12, C15, C17-C22, C26
28	28	1012084-01	8 MFD 25V 6% 30D AL EL (10-12)	4	C1, C2, C13, C14
29	29	1005306-00	6,8MFD 35V 10% 150H S, TA (10-00)	1	C27
30	30	1105275-00	D 672 TR= 15NS PIV= 60V SP	4	D1, D3-D5

REVISION HISTORY VARIATIONS FOR THIS ASSY,

CHK	ECD NO	REV	MADE BY:	DATE:	TITLE
			F SMART	26-MAY-78	DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
			F SMART	26-MAY-78	PARTS LIST
			F SMART	26-MAY-78	ASYNCHRONOUS LINE INTERFACE
			M MICHAUD	26-MAY-78	
			KM	26-MAY-78	
			M MICHAUD	26-MAY-78	

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FIRST USED ON:

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

DATE: 26-MAY-78

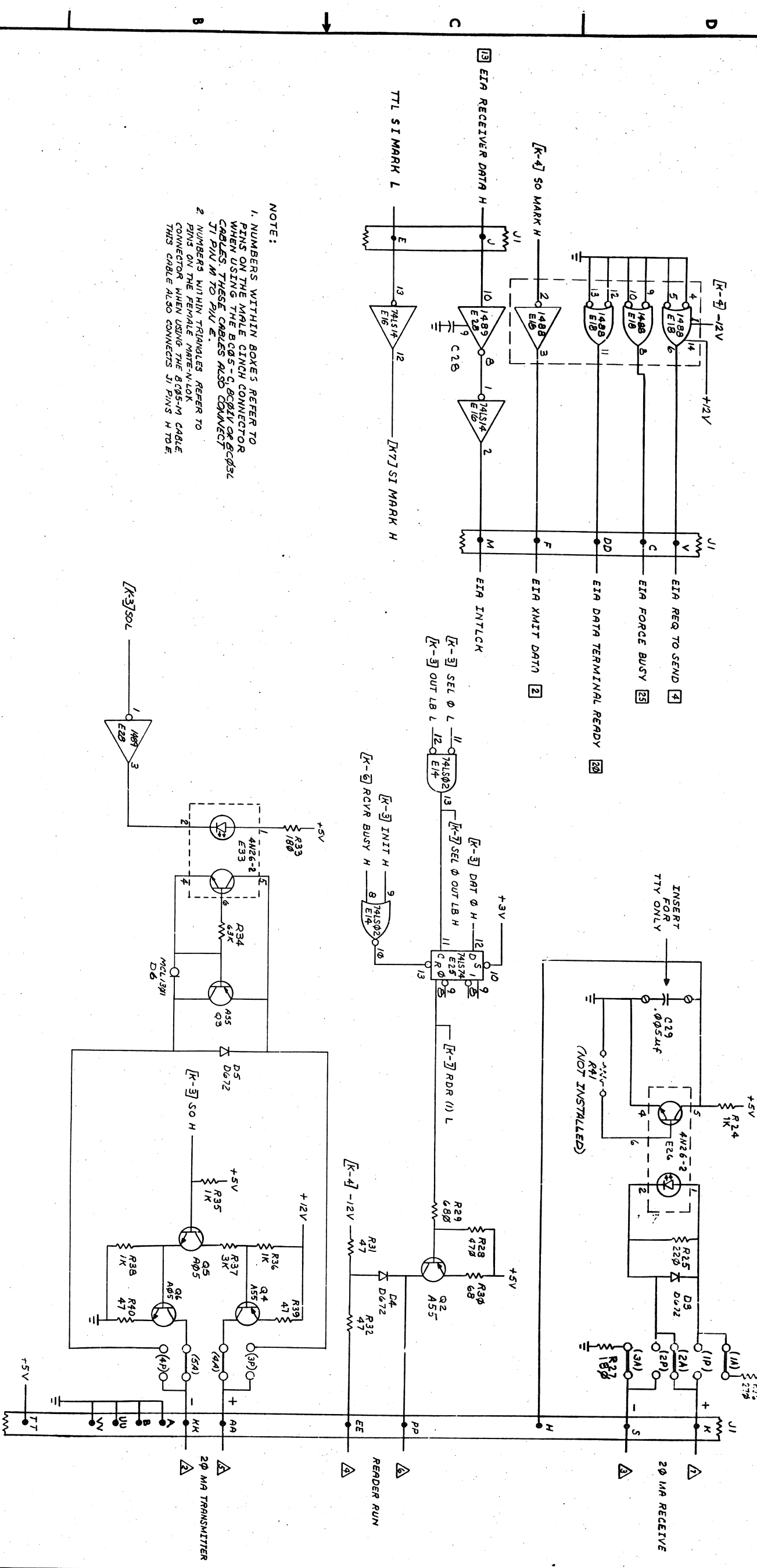
EDIT# 4

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

66 NOTE: IF 1913414 IS NOT AVAILABLE, USE 1911324(7414)
 67 NOTE: IF 9009149-01 IS NOT AVAILABLE, USE 9009149-00.
 68 NOTE: THIS PART IDENTIFIES THE CATHODE WITH A SILVER BAR

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

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NOTE:
 1. NUMBERS WITHIN BOXES REFER TO PINS ON THE MALE GINCH CONNECTOR WHEN USING THE BQ85-C BQ85-C OR BQ85-C CABLES. THESE CABLES ALSO CONNECT TO PIN M TO PIN E.
 2. NUMBERS WITHIN TRIANGLES REFER TO PINS ON THE FEMALE MATE-N-LOK CONNECTOR WHEN USING THE BQ85-M CABLE. THIS CABLE ALSO CONNECTS TO PINS H TO F.

REV.	NUMBER	DESCRIPTION	DATE
C	1	REVISED	
B	1	REVISED	
A	1	REVISED	

REV.	NUMBER	DESCRIPTION	DATE
C	1	REVISED	
B	1	REVISED	
A	1	REVISED	

REV.	NUMBER	DESCRIPTION	DATE
C	1	REVISED	
B	1	REVISED	
A	1	REVISED	

REV.	NUMBER	DESCRIPTION	DATE
C	1	REVISED	
B	1	REVISED	
A	1	REVISED	

REV.	NUMBER	DESCRIPTION	DATE
C	1	REVISED	
B	1	REVISED	
A	1	REVISED	

REV.	NUMBER	DESCRIPTION	DATE
C	1	REVISED	
B	1	REVISED	
A	1	REVISED	

(CURRENT LOOP CKT)

TITLE: ASYN LINE INTERFACE
 SCALE: 1/16"
 SHEET: 6 OF 6
 DIST.:

REV. C

REV. C

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DIGITAL EQUIPMENT CORPORATION

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

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

SEE NOTE #1

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

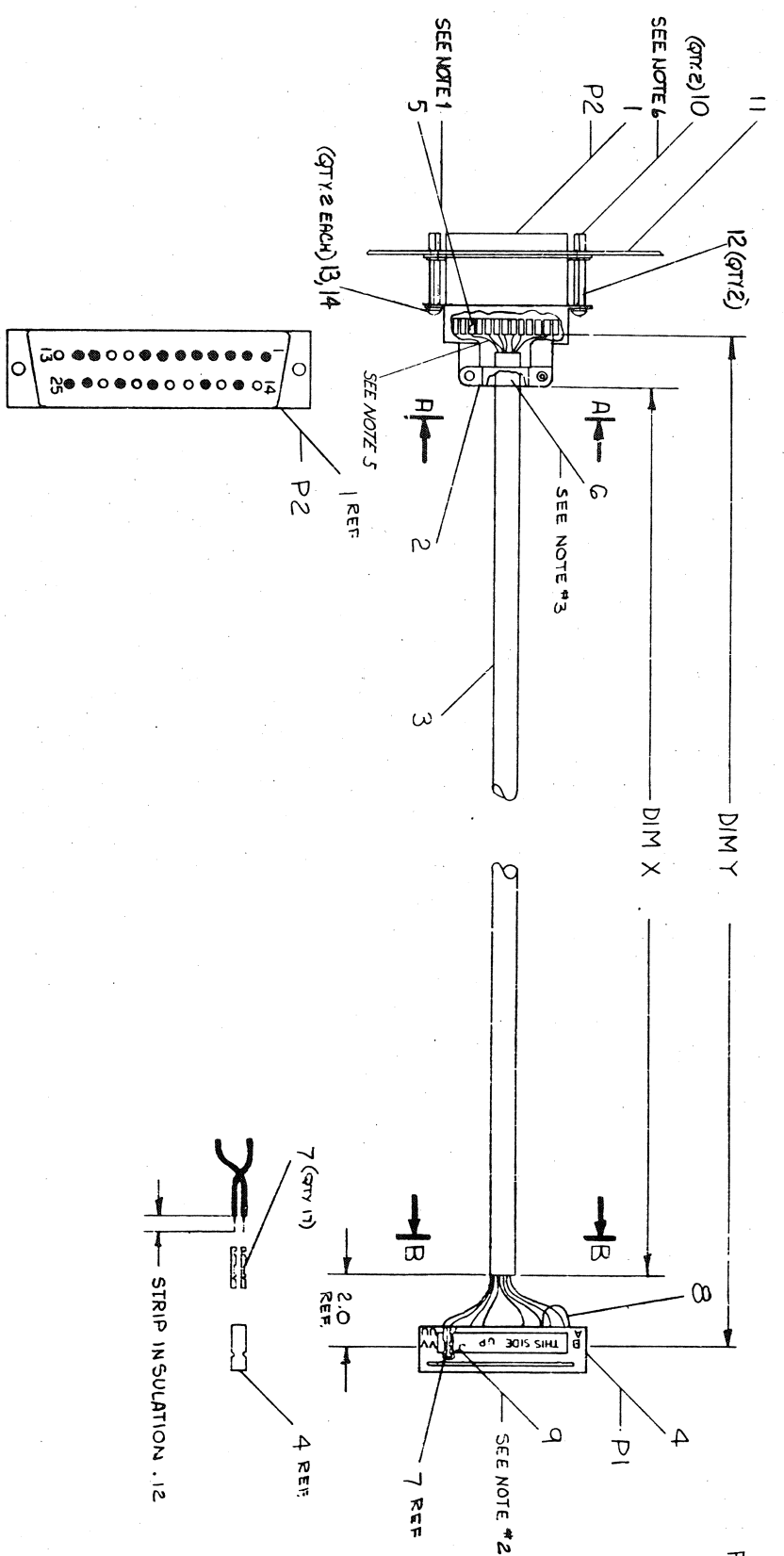
FIRST USED ON OPTION/MODEL		1		CABLE ASSY	SEE LEGEND	1
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES		QTY.		DESCRIPTION	PART NO.	ITEM NO.
TOLERANCES		DATE		PARTS LIST		
DECIMALS	ANGLES	DRN.	DATE			
.xxx = .005	±0° 30'	CHK'D.	1/6/73			
.xx = .02		ENG.	1-4-74			
.x = .1		PROJ. ENG.	1/4/74			
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓		PROG.	1/9/74			
MATERIAL		NEXT HIGHER ASSY.		TITLE		
SEE PARTS LIST				BCØ5M CABLE ASSEMBLY (KL8-E, KL8-JA)		
FINISH		SCALE		SIZE CODE	NUMBER	REV.
		1		B UA	BCØ5M-Ø-Ø	A
		SHEET		DIST.		
		2				

DEC 16-13251-1080-1A-R373
DRB 100

4 3 2 1

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



VIEW A-A
(REAR VIEW)
SCALE: NONE

VIEW B-B
(REAR VIEW)
SCALE: NONE

NUMBER	VARIATION	DIM. "X"	DIM. "Y"	PRE-CUT
BC03L-0		10 FT ± 2 IN	10 FT, 5 IN	
BC03L-5		5 FT ± 2 IN	5 FT, 5 IN	
BC03L-1K		1 FT 9 IN ± 1 IN	2 FT	
BC03L-01		1 FT 3 IN		

- NOTES:
- EACH SOLDERED CONN ON P2 SHALL BE INSULATED WITH A .25 PIECE OF SHRINK TUBING (ITEM #5)
 - PLACE ITEM #9 (THIS SIDE UPSTICKER) ON LETTERED SIDE OF ITEM #4 (CONN HOUSING) AS SHOWN.
 - FOR STRAIN RELIEF WRAP 2 TURNS OF TAPE (ITEM #6) AROUND CABLE (ITEM #3) AS SHOWN.
 - PINS MARKED * IN VIEW B-B ARE NOT USEABLE
 - WIRES COMING FROM CENTER OF PLUG CONN SHOULD BE 5/8" ± 1/32" ALL OTHERS SHOULD BE 3/16" ± 1/32" INTO HOOD OF CONN. SO THAT THEY ARE NOT BOUNCED.
 - PLACE LOCK WASHER (SUPPLIED WITH ITEM #10) BETWEEN SPACER AND CONNECTOR FLANGE. DISCARD NUT (QTY 2) SUPPLIED WITH ITEM #10.

QTY	DESCRIPTION	DWG. PART NO.	ITEM NO.
2	WASHER, LOCK #4	9006688	14
2	SCR. PHL. PH. HD #4.40 X .25	9008301-1	13
1	SPACER, THREADED, HEX	9008833	12
2	PLATE, CONN. W/TG.	B-MD-741407-00-11	11
2	SCREW, LOCK ASSY	9008451-100	10
1	LABEL (THIS SIDE UP)	3611567	9
3	3MM WIRE STRANDED #22 AWG TPVC (BLK)	9107350-00	8
17	SOCKET, CRIMP	1210089-07	7
16	TAPE, DOUBLE SIDED .50 W.D.	9007834	6
1	TUBING, HEAT SHRINK .12	9107255-09	5
1	CONN., 44 POS., HSG.	1210918-15	4
1	CABLE, 15 COND., 22 AWG.	9107672-00	3
1	HOOD, CONN.	1212516-00	2
1	CONNECTOR, PLUG, FILTERED	1214031-00	1

REV.	CHANGE NO.	REV.
1	BC03L-00002	A
2	BC03L-00003	B
3	BC03L-00004	C
4	BC03L-00005	D
5	BC03L-00006	E
6	BC03L-MK007	F

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

ANGLES: CLASS OF ACCURACY SURFACE FINISH (CHECK ONE) QUALITY IN MICRONS

FINISH: REMOVE BURS AND BREAK SHARP CORNERS. DO NOT SCALE DWG. NEXT HIGHER ASSY.

TITLE: FILTERED CABLE ASSY

PROJ. NO. 10-13-75

CHKD BY: M.E. LEWANDOWSKI

ENGR BY: M.E. LEWANDOWSKI

DATE: 10-13-75

SCALE: 1/1

SHEET 1 OF 1