REVISION CONTROL SHEET

CUSTOMER PRINT SET

MFG SET

DRAWING NO	NO OF SHT	DESCRIPTION	OPTION NO/FILE DATE	REVISIONS REWORK VERSION								
		MODULE REVISION		A	B	C	C	C		C	C	
D-UA-M8538-Ø-Ø	6	MTR BOARD		-	A	B	B	BI		BI	BI	
D-CS-M8538-Ø-MTR1	1	METER COUNTERS		-	A	A	A	AI		AI	AI	
D-CS-M8538-Ø-MTR2	1	ACCOUNTING ENABLES AND IMHZ CLOCKS		-	A	B	B	BI		BI	BI	
D-CS-M8538-0-MTR3	1	INTERVAL TIMER		-	A	B	B	BI		BI	BI	
D-CS-M8538-Ø-MTR4	1	PERFORMANCE ANALYSIS		-	A	B	B	BI		BI	BI	
D-CS-M8538-Ø-MTR5	1	EBUS MIXERS AND BUFFERS		-	A	B	B	BI		BI	BI	
D-CS-M8538-Ø-MTR6	1	METERS POWER, GND, CAPS		-	A	B	B	BI		BI	BI	
D-CS-M8538-Ø-RES	2	METERS TERMINATORS		-	A	B	B	BI		BI	BI	
K-CO-M8538-Ø-4	1	MTR BOARD (CALDEC DATA BASE)		A	A	A	A	A		A	A	
D-AH-M8538-Ø-5	4	MTR BOARD		-	-	-	-	-		-	-	
B-MH-M8538-Ø-6	1	MODULE ECO HISTORY		-	A	B	C	D		E	E	
5011440	-	ETCHED CIRCUIT BOARD		A	A	A	A	A		A	A	
P00-M8538-ØØ		PROCESS SHEET (REF ONLY)		-	-	-	-	-		-	-	

ECO NO	ORIG	00001	00002	00002A	00003	00004 CANCELLED PER ECO #4A	0004A CANCELLED ECO #4	00005	0005A

CUSTOMER PRINT SET CODES

X = PRINT OF DOCUMENT INCLUDED IN PRINT SET
C = INCLUDES ALL PRINTS INDICATED ON DOCUMENT
S = CONFIDENTIAL AUTHORIZED SIGNATURE REQUIRED

TITLE		SIZE	CODE	NUMBER	REV
MTR BOARD	SHEET 2 OF 3	B	DD	M8538-Ø	E

315

MR

ECO #2 CONTINUED

COMPONENT ADDS AS SHOWN: (WIRE P/N 9105740-55)

1. E40 (10105) (P/N 1911402) ONLY IF BOARD IS SOLDERED. UA SHEET 4.
2. E304 (68Ω) (P/N 1300219) AND WIRE FROM E38 (9) TO R19.
3. E305 (68Ω) (P/N 1300219) AND WIRE FROM E36 (10) TO R254.
4. R306 (68Ω) (P/N 1300219) AND WIRE FROM E7 (13) TO R180
5. R307 (68Ω) (P/N 1300219) AND WIRE FROM E59 (11) TO R148.
6. R308 (68Ω) (P/N 1300219) AND WIRE FROM E47 (13) TO R86.

UA SHEET 3.

7. E59 (10134) (P/N 1911500) ONLY IF BOARD IS SOLDERED. UA SHEET 4.
8. R203 TO PTH'S NEXT TO R209. UA SHEET 3.

WIRE ADDS SIDE 2 AS SHOWN: (P/N (9105740-55) UA SHEET 3.

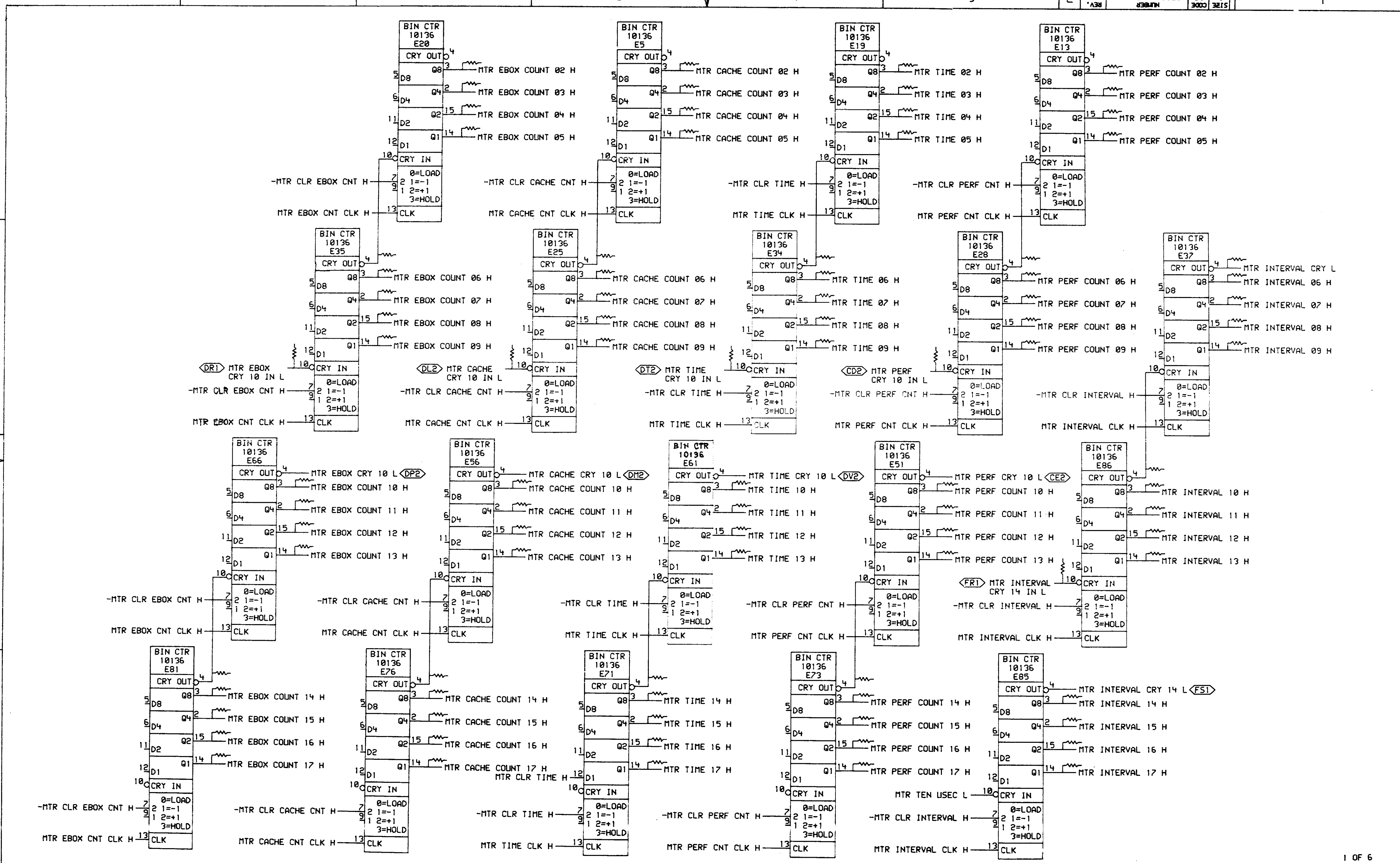
1. FROM E71 (12) TO R49.
2. FROM E63 (12) TO E69 (10).
3. FROM E69 (12) TO SECOND PTH TO LEFT AND BELOW E57 (8).
4. FROM E40 (13) TO R203.
5. FROM E40 (13) TO R27 (13).
6. FROM PTH TO LEFT OF E36 (1) TO PTH BELOW AND TO LEFT OF E39 (9).
7. FROM E63 (15) TO JUMPER W3.
8. FROM W4 TO E59 (11).
9. FROM E47 (2) TO E38(9).
10. FROM E7 (12) TO E7 (13).

TWISTED PAIR WIRE ADD SIDE 1 AS SHOWN (9107768-59): UA SHEET 3.

11. A. WHT FROM E82 (13) TO E64 (15).
    B. GRN FROM E82 (16) TO E64 (1).
12. A. WHT FROM E71 (12) TO E40 (12).
    B. GRN FROM E71 (16) TO E40 (16).
13. A. WHT FROM E40 (12) TO E8 (2).
    B. GRN FROM E40 (16) TO E8 (1).
14. A. WHT FROM R300 TO E40 (9).
    B. GRN FROM E14 (1) TO E40 (1).
15. A. WHT FROM E47 (13) TO CC1.
    B. GRN FROM E47 (16) TO LEFT LEAD OF C177.
16. A. WHT FROM E47 (15) TO E64 (9).
    B. GRN FROM E47 (16) TO E69 (16).
17. A. WHT FROM E64 (11) TO PTH ABOVE DA1.
    B. GRN FROM E63 (16) TO LEFT LEAD OF C178.
18. A. WHT FROM E38 (10) TO E64 (14).
    B. GRN FROM E38 (16) TO E59 (1).
19. A. WHT FROM E11 (14) TO E27 (14). DO NOT SOLDER
    B. GRN FROM E11 (16) TO E27 (16).
20. A. WHT FROM E27 (14) TO PTH TO LEFT OF E6 (3)
    B. GRN FROM E27 (1) TO E6 (1).
21. A. WHT FROM E38 (6) TO E36 (12).
    B. GRN FROM E38 (1) TO E36 (16).
22. A. WHT FROM E36 (13) TO E7 (12).
    B. GRN FROM E36 (16) TO E7 (1).
23. A. WHT FROM E7 (15) TO E46 (10).
    B. GRN FROM E7 (16) TO E46 (16)
24. A. WHT FROM E7 (9) TO E43 (7).
    B. GRN FROM E7 (1) TO E43 (1). DO NOT SOLDER.
25. A. WHT FROM E14 (9) TO E43 (12). DO NOT SOLDER.
    B. GRN FROM E14 (16) TO E43 (16).
26. A. WHT FROM E43 (12) TO E59 (15).
    B. GRN FROM E43 (16) TO E59 (16).
27. A. WHT FROM E11 (3) TO E43 (13). DO NOT SOLDER.
    B. GRN FROM E11 (1) TO E43 (1).
28. A. WHT FROM E43 (13) TO E46 (12). DO NOT SOLDER.
    B. GRN FROM E42 (16) TO E46 (16).
29. A. WHT FROM E46 (12) TO E59 (6).
    B. GRN FROM E46 (12) TO E59 (1).
30. A. WHT FROM E41 (9) TO FINGER LEAD OF R299
    B. GRN FROM E41 (1) TO DS1.

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
MTR BOARD	D	UA	M8538-0-0	B1
SCALE	SHEET 2 OF 7	DIST.		



1 OF 6

REVISIONS		
CHK	CHANGE NO.	REV
	M8538-00001	A
	M8538-00003	A1

J. LEONARD

digital

DRN. | DATE | CHK'D | ENG | DATE 6/5/75

BOARD LOCATION: 4AF33 | SHEET 1 OF 1

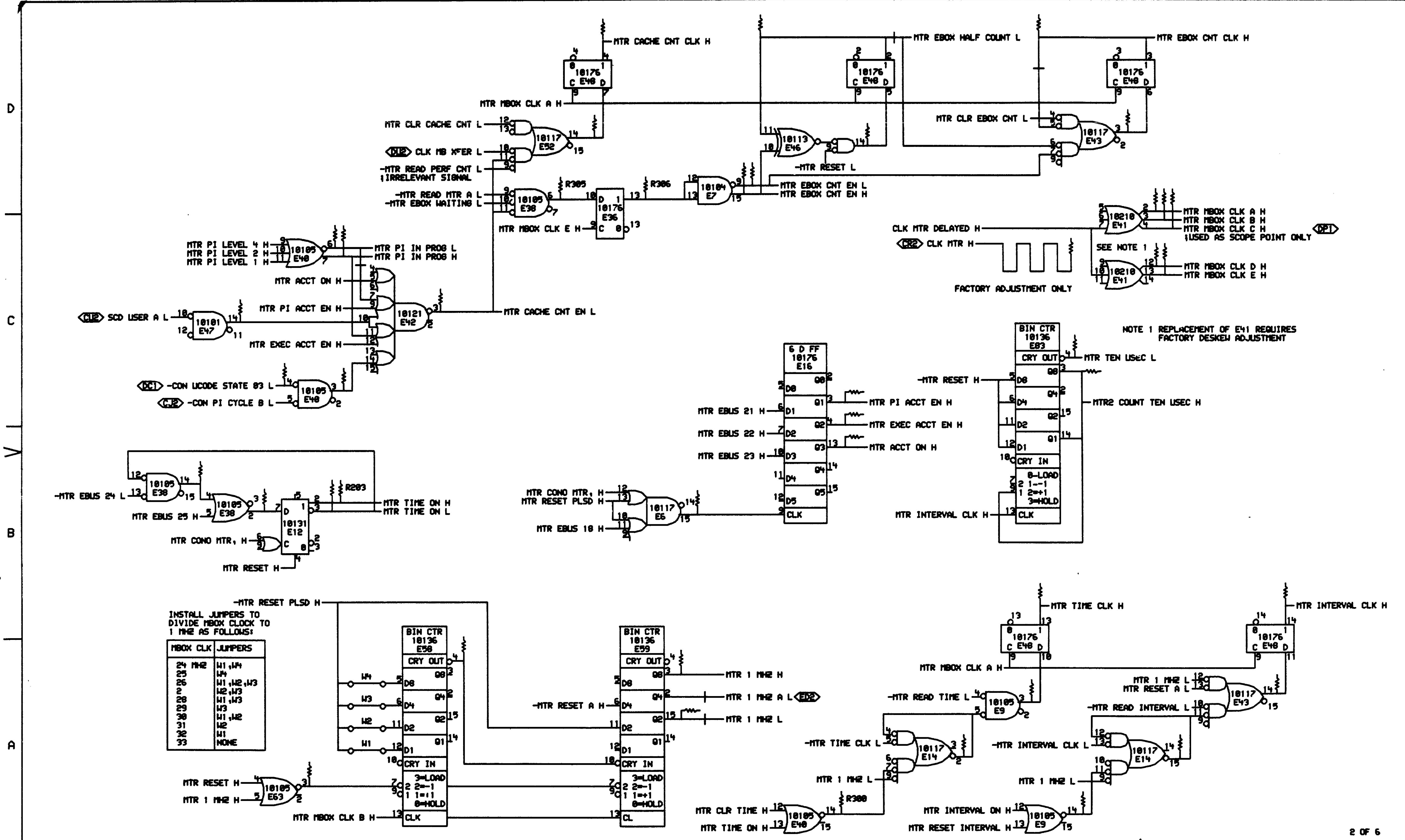
MTR1EXL4,120] 16-APR-75 07:22 | NEXT HIGHER ASSEMBLY:

FIRST USED ON OPTION/MODEL: KL10 | B-DD-M8538-0

TITLE: METER COUNTERS

SIZE D | CODE CS | NUMBER M8538-0-MTR1 | REV. A1

317



MBOX CLK	JUMPERS
24 MHZ	W1,W4
25	W4
26	W1,W2,W3
2	W2,W3
28	W1,W3
29	W3
30	W1,W2
31	W2
32	W1
33	NONE

2 OF 6

REVISIONS

CHK	CHANGE NO.	REV
-	M8538-00002	B
	M8538-00003	B1

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digital

MTR2EX.DRW[4,120] 09-DEC-75 13:43

FIRST USED ON OPTION/MODEL: KL10

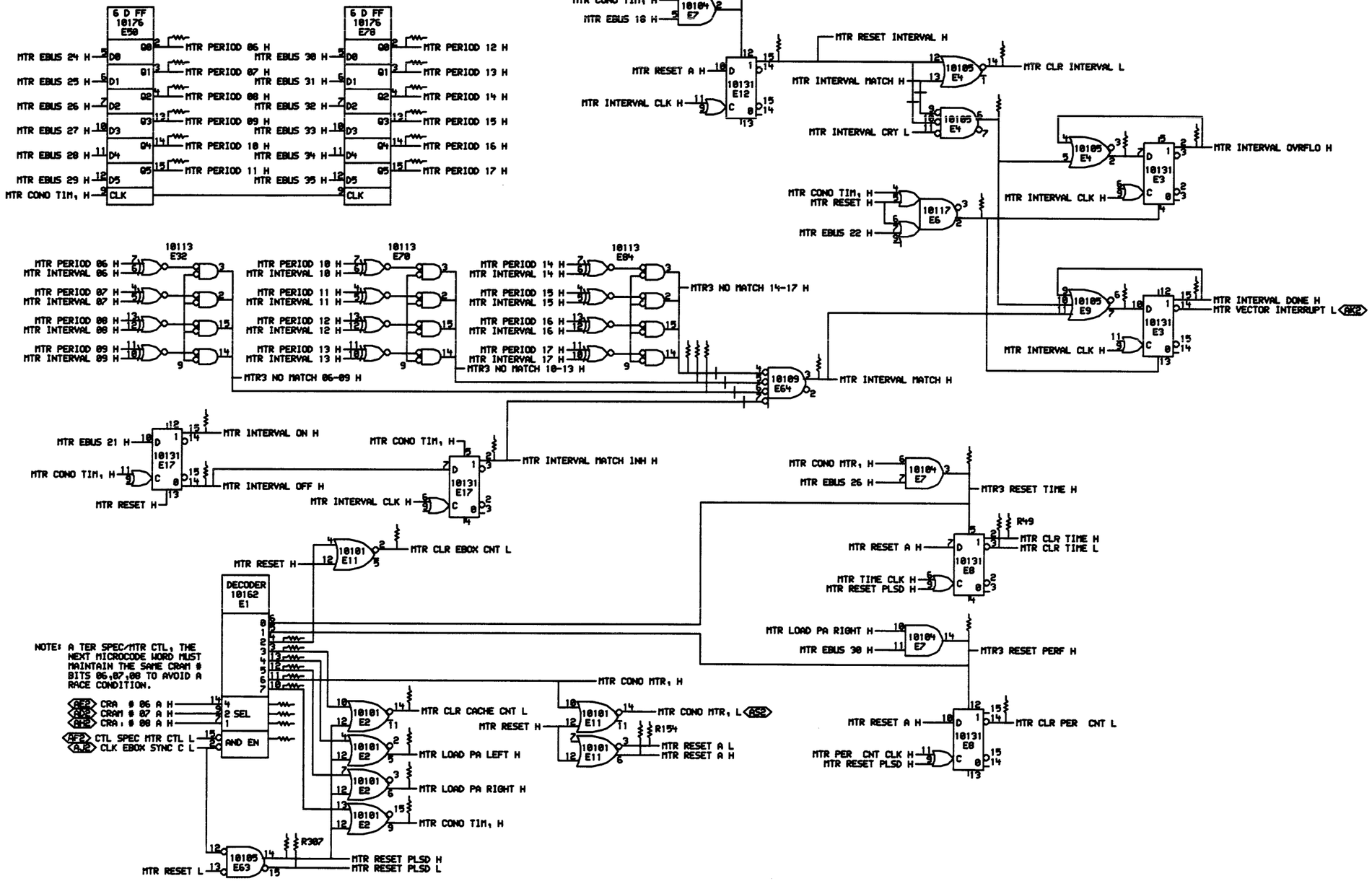
NEXT HIGHER ASSEMBLY: B-DD-M8538-0

BOARD LOCATION: 4A 33

TITLE: ACCOUNTING ENABLES AND 1 MHZ CLOCKS

SIZE	CODE	NUMBER	REV.
D	CS	M8538-0-MTR2	B1

318



3 OF 6

REVISIONS			
CH'G	CHANGE NO.	REV	M8538-00003 B1 4/1/77
	M8538-00002	B	J. LEONARD 11-APR-77
	J.LEONARD 4-4-76		

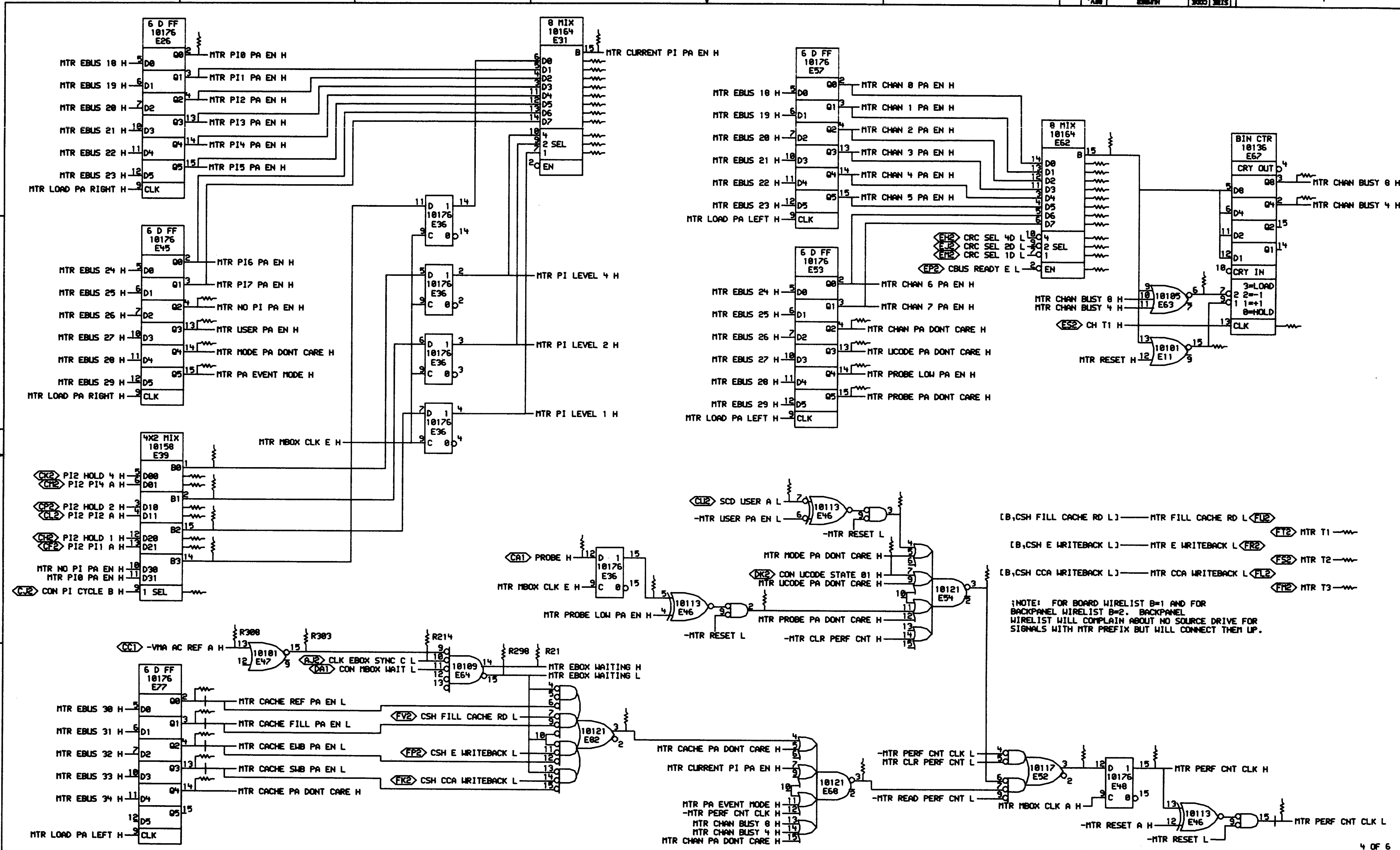
digital	DRAWN: J. Leonard	DATE: 02-DEC-75	ENG.
	CHK'D:	DATE: 12/2/75	BOARD LOCATION: SHEET 1 OF
MTR3EX.DRW[4,120] 02-DEC-75 13:43			NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: KL10			B-DD-M8538-0

DATE: 17-FEB-76 PAGE 33

TITLE: INTERVAL TIMER

SIZE	CODE	NUMBER	REV.
D	CS	M8538-0-MTR3	B1

319



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REVISIONS		
CHK	CHANGE NO.	REV
-	M8538-00002	B

M8538-00003 B1 — J. LEONARD

digital — DATE 07-DEC-75 — ENG. — DATE 17-FEB-76 — TITLE: PERFORMANCE ANALYSIS

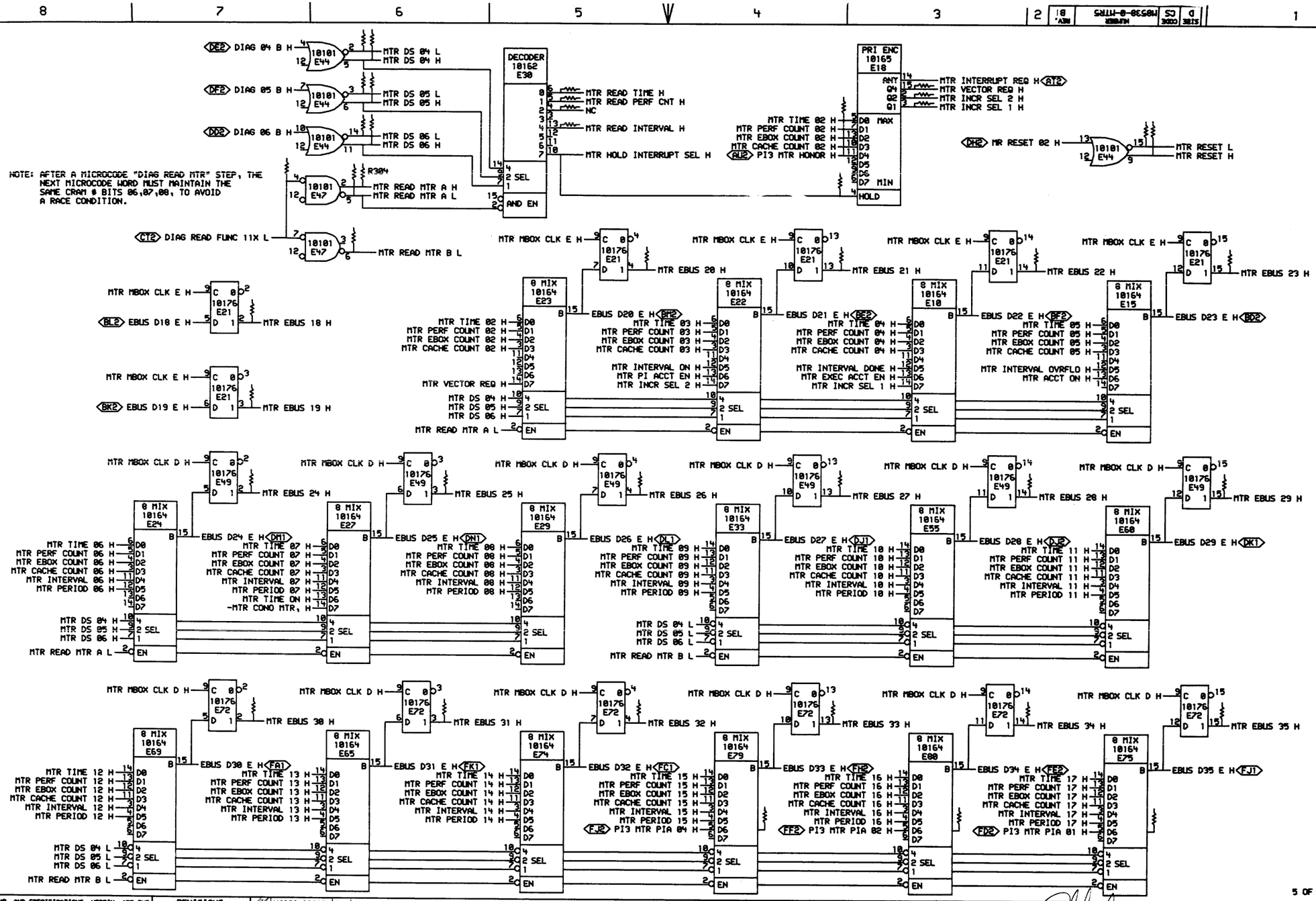
MTR4EX.DRW[4,120] 07-DEC-75 14:23 — BOARD LOCATION: 4AF33 — SHEET 1 OF 1

NEXT HIGHER ASSEMBLY: B-DD-M8538-0

FIRST USED ON OPTION/MODEL: KL10

SIZE	CODE	NUMBER	REV.
D	CS	M8538-0-MTR4	B1

320



REVISIONS		
CHK	CHANGE NO.	REV
—	M8538-00002	B
J. LEONARD		

M8538-00003 B1
J. LEONARD

DRN.	DATE	ENG.	DATE
J. Looney	07-DEC-75		17-FEB-76
CHK.	DATE	BOARD LOCATIONS	SHEET
	12-8-76	4AE33	1 OF

MTR5EX.DRW[4,120] 02-DEC-75 13:35
FIRST USED ON OPTION/MODEL: KL10
NEXT HIGHER ASSEMBLY: B-DD-M8538-0

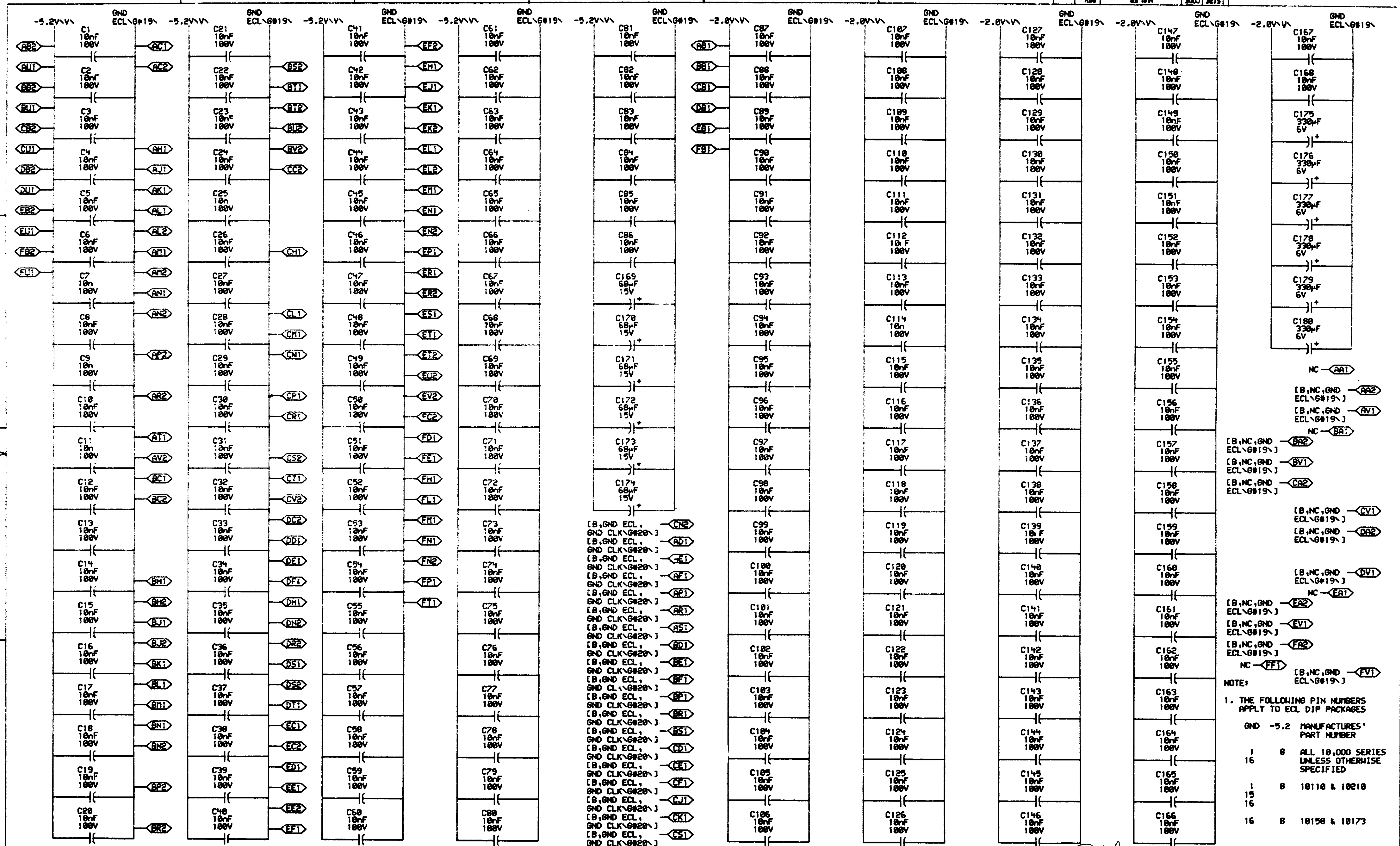
TITLE: EBUS MIXERS AND BUFFERS

SIZE	CODE	NUMBER	REV.
D	CS	M8538-0-MTR5	B1

5 OF 6

REV: B1 | NUMBER M8538-0-MTR5 | CODE CS | SIZE D

321



REVISIONS		
CHK	CHANGE NO.	REV
—	M8535-00002	B

M8538-00003 B1

J. LEONARD

digital

DRN.	DATE 05-DEC-75	ENG.	DATE 17-FEB-76
CHK'D.	DATE 12/8/75	BOARD LOCATION: 4AF33	

MTRGEX.DRW[4,120] 01-DEC-75 16:53 SHEET 1 OF 1

NEXT HIGHER ASSEMBLY: B-DD-M8538-0

FIRST USED ON OPTION/MODEL: KL10

TITLE: METERS POWER, GND, CAPS

SIZE	CODE	NUMBER	REV.
D	CS	M8538-0-MTR6	B1

322

RESISTOR LOC(PIN)	SHOWN ON DRW#	REF	VALUE	TERMINATES SIGNAL
R100(1)	MTR3EX	A7	68Ω	%E1(10)
R102(1)	MTR3EX	B7	68Ω	%E1(12)
R179(1)	MTR3EX	B7	68Ω	%E1(13)
R101(1)	MTR3EX	B7	68Ω	%E1(3)
R242(1)	MTR3EX	B7	68Ω	%E1(4)
R289(1)	MTR4EX	C2	68Ω	%E11(15)
R26(1)	MTR2EX	A2	68Ω	%E14(15)
R60(1)	MTR2EX	A3	68Ω	%E14(2)
R1(1)	MTR1EX	C5	68Ω	%E25(4)
R124(1)	MTR1EX	C3	68Ω	%E28(4)
R66(1)	MTR1EX	C4	68Ω	%E34(4)
R64(1)	MTR1EX	C6	68Ω	%E35(4)
R306(1)	MTR2EX	D5	68Ω	%E36(13)
R253(1)	MTR4EX	D5	68Ω	%E36(14)
R144(1)	MTR4EX	B5	68Ω	%E36(15)
R24(1)	MTR2EX	B7	68Ω	%E38(14)
R184(1)	MTR2EX	B7	68Ω	%E38(2)
R305(1)	MTR2EX	D5	68Ω	%E38(6)
R258(1)	MTR4EX	B7	68Ω	%E39(1)
R260(1)	MTR4EX	B7	68Ω	%E39(14)
R259(1)	MTR4EX	B7	68Ω	%E39(15)
R257(1)	MTR4EX	B7	68Ω	%E39(2)
R121(1)	MTR3EX	D2	68Ω	%E4(2)
R56(1)	MTR3EX	D3	68Ω	%E4(6)
R300(1)	MTR2EX	A4	68Ω	%E40(14)
R83(1)	MTR2EX	C7	68Ω	%E40(3)
R30(1)	MTR2EX	A1	68Ω	%E43(14)
R36(1)	MTR2EX	D2	68Ω	%E43(3)
R37(1)	MTR2EX	D4	68Ω	%E46(14)
R146(1)	MTR4EX	B4	68Ω	%E46(2)
R148(1)	MTR4EX	B3	68Ω	%E46(3)
R85(1)	MTR2EX	C7	68Ω	%E47(14)
R303(1)	MTR4EX	A7	68Ω	%E47(15)
R35(1)	MTR2EX	D5	68Ω	%E52(14)
R29(1)	MTR4EX	A2	68Ω	%E52(3)
R42(1)	MTR4EX	B3	68Ω	%E54(3)
R151(1)	MTR2EX	A6	68Ω	%E58(4)
R243(1)	MTR2EX	B5	68Ω	%E6(15)
R120(1)	MTR3EX	C3	68Ω	%E6(2)
R237(1)	MTR4EX	D2	68Ω	%E62(15)

RESISTOR LOC(PIN)	SHOWN ON DRW#	REF	VALUE	TERMINATES SIGNAL
R153(1)	MTR2EX	A7	68Ω	%E63(3)
R208(1)	MTR4EX	C2	68Ω	%E63(6)
R41(1)	MTR4EX	A4	68Ω	%E68(3)
R183(1)	MTR3EX	D4	68Ω	%E7(2)
R45(1)	MTR1EX	A5	68Ω	%E71(4)
R87(1)	MTR1EX	A4	68Ω	%E73(4)
R43(1)	MTR1EX	A6	68Ω	%E76(4)
R47(1)	MTR1EX	A7	68Ω	%E81(4)
R220(1)	MTR4EX	A5	68Ω	%E82(3)
R70(1)	MTR1EX	B2	68Ω	%E86(4)
R63(1)	MTR2EX	A2	68Ω	%E9(14)
R34(1)	MTR2EX	A3	68Ω	%E9(3)
R119(1)	MTR3EX	C2	68Ω	%E9(7)
R200(1)	MTR4EX	C2	68Ω	-CBUS READY E H
R207(1)	MTR4EX	C1	68Ω	CH T1 H
R214(1)	MTR4EX	A6	68Ω	-CLK EBOX SYNC C H
R139(1)	MTR2EX	C2	68Ω	CLK MTR H
R208(1)	MTR4EX	B7	68Ω	CON PI CYCLE B H
R150(1)	MTR4EX	B3	68Ω	CON UCODE STATE 01 H
R207(1)	MTR2EX	C7	68Ω	CON UCODE STATE 03 H
R234(1)	MTR3EX	A7	68Ω	CRAM # 06 A H
R236(1)	MTR3EX	A7	68Ω	CRAM # 07 A H
R235(1)	MTR3EX	A7	68Ω	CRAM # 08 A H
R283(1)	MTR4EX	C2	68Ω	-CRC SEL 1D H
R278(1)	MTR4EX	C2	68Ω	-CRC SEL 2D H
R279(1)	MTR4EX	C2	68Ω	-CRC SEL 4D H
R233(1)	MTR3EX	A7	68Ω	-CTL SPEC MTR CTL H
R88(1)	MTR5EX	D7	68Ω	-DIAG READ FUNC 11X H
R215(1)	MTR2EX	A5	68Ω	MTR 1 MH2 H
R62(1)	MTR2EX	A5	68Ω	-MTR 1 MH2 H
R31(1)	MTR2EX	B4	68Ω	MTR ACCT ON H
R2(1)	MTR2EX	D5	68Ω	MTR CACHE CNT CLK H
R39(1)	MTR2EX	C6	68Ω	-MTR CACHE CNT EN H
R129(1)	MTR1EX	D5	68Ω	MTR CACHE COUNT 02 H
R190(1)	MTR1EX	D5	68Ω	MTR CACHE COUNT 03 H
R12(1)	MTR1EX	D5	68Ω	MTR CACHE COUNT 04 H
R16(1)	MTR1EX	D5	68Ω	MTR CACHE COUNT 05 H
R67(1)	MTR1EX	C5	68Ω	MTR CACHE COUNT 06 H
R199(1)	MTR1EX	C5	68Ω	MTR CACHE COUNT 07 H
R75(1)	MTR1EX	C5	68Ω	MTR CACHE COUNT 08 H

RESISTOR LOC(PIN)	SHOWN ON DRW#	REF	VALUE	TERMINATES SIGNAL
R136(1)	MTR1EX	C5	68Ω	MTR CACHE COUNT 09 H
R92(1)	MTR1EX	B6	68Ω	MTR CACHE COUNT 10 H
R96(1)	MTR1EX	B6	68Ω	MTR CACHE COUNT 11 H
R162(1)	MTR1EX	B6	68Ω	MTR CACHE COUNT 12 H
R101(1)	MTR1EX	B6	68Ω	MTR CACHE COUNT 13 H
R167(1)	MTR1EX	A6	68Ω	MTR CACHE COUNT 14 H
R173(1)	MTR1EX	A6	68Ω	MTR CACHE COUNT 15 H
R115(1)	MTR1EX	A6	68Ω	MTR CACHE COUNT 16 H
R109(1)	MTR1EX	A6	68Ω	MTR CACHE COUNT 17 H
R17(1)	MTR1EX	C6	68Ω	-MTR CACHE CRY 10 IN H
R295(1)	MTR4EX	A7	68Ω	-MTR CACHE EMB PA EN H
R290(1)	MTR4EX	A7	68Ω	-MTR CACHE FILL PA EN H
R219(1)	MTR4EX	A7	68Ω	MTR CACHE PA DONT CARE H
R297(1)	MTR4EX	A7	68Ω	-MTR CACHE REF PA EN H
R296(1)	MTR4EX	A7	68Ω	-MTR CACHE SWB PA EN H
R276(1)	MTR4EX	D2	68Ω	MTR CHAN 0 PA EN H
R275(1)	MTR4EX	D2	68Ω	MTR CHAN 1 PA EN H
R274(1)	MTR4EX	D2	68Ω	MTR CHAN 2 PA EN H
R277(1)	MTR4EX	D2	68Ω	MTR CHAN 3 PA EN H
R281(1)	MTR4EX	D2	68Ω	MTR CHAN 4 PA EN H
R285(1)	MTR4EX	D2	68Ω	MTR CHAN 5 PA EN H
R282(1)	MTR4EX	C2	68Ω	MTR CHAN 6 PA EN H
R284(1)	MTR4EX	C2	68Ω	MTR CHAN 7 PA EN H
R217(1)	MTR4EX	D1	68Ω	MTR CHAN BUSY 4 H
R216(1)	MTR4EX	D1	68Ω	MTR CHAN BUSY 8 H
R213(1)	MTR4EX	C4	68Ω	MTR CHAN PA DONT CARE H
R50(1)	MTR3EX	A6	68Ω	-MTR CLR CACHE CNT H
R52(1)	MTR3EX	B6	68Ω	-MTR CLR EBOX CNT H
R55(1)	MTR3EX	D3	68Ω	-MTR CLR INTERVAL H
R226(1)	MTR3EX	A3	68Ω	-MTR CLR PERF CNT H
R49(1)	MTR3EX	B3	68Ω	MTR CLR TIME H
R48(1)	MTR3EX	B3	68Ω	-MTR CLR TIME H
R187(1)	MTR3EX	A7	68Ω	MTR CONO MTR, H
R227(1)	MTR3EX	A6	68Ω	MTR CONO TIM, H
R221(1)	MTR4EX	D5	68Ω	MTR CURRENT PI PA EN H
R4(1)	MTR5EX	D6	68Ω	MTR DS 04 H
R138(1)	MTR5EX	D6	68Ω	-MTR DS 04 H
R3(1)	MTR5EX	D6	68Ω	MTR DS 05 H
R137(1)	MTR5EX	D6	68Ω	-MTR DS 05 H
R8(1)	MTR5EX	D6	68Ω	MTR DS 06 H

RESISTOR LOC(PIN)	SHOWN ON DRW#	REF	VALUE	TERMINATES SIGNAL
R163(1)	MTR5EX	D6	68Ω	-MTR DS 06 H
R51(1)	MTR2EX	D3	68Ω	MTR EBOX CNT CLK H
R141(1)	MTR2EX	D4	68Ω	MTR EBOX CNT EN H
R27(1)	MTR2EX	D4	68Ω	-MTR EBOX CNT EN H
R130(1)	MTR1EX	D6	68Ω	MTR EBOX COUNT 02 H
R191(1)	MTR1EX	D6	68Ω	MTR EBOX COUNT 03 H
R5(1)	MTR1EX	D6	68Ω	MTR EBOX COUNT 04 H
R15(1)	MTR1EX	D6	68Ω	MTR EBOX COUNT 05 H
R69(1)	MTR1EX	C6	68Ω	MTR EBOX COUNT 06 H
R198(1)	MTR1EX	C6	68Ω	MTR EBOX COUNT 07 H
R74(1)	MTR1EX	C6	68Ω	MTR EBOX COUNT 08 H
R133(1)	MTR1EX	C6	68Ω	MTR EBOX COUNT 09 H
R89(1)	MTR1EX	B7	68Ω	MTR EBOX COUNT 10 H
R93(1)	MTR1EX	B7	68Ω	MTR EBOX COUNT 11 H
R161(1)	MTR1EX	B7	68Ω	MTR EBOX COUNT 12 H
R100(1)	MTR1EX	B7	68Ω	MTR EBOX COUNT 13 H
R166(1)	MTR1EX	A7	68Ω	MTR EBOX COUNT 14 H
R172(1)	MTR1EX	A7	68Ω	MTR EBOX COUNT 15 H
R110(1)	MTR1EX	A7	68Ω	MTR EBOX COUNT 16 H
R108(1)	MTR1EX	A7	68Ω	MTR EBOX COUNT 17 H
R18(1)	MTR1EX	C7	68Ω	-MTR EBOX CRY 10 IN H
R140(1)	MTR2EX	D4	68Ω	-MTR EBOX HALF COUNT H
R21(1)	MTR4EX	A5	68Ω	MTR EBOX WAITING H
R298(1)	MTR4EX	A6	68Ω	-MTR EBOX WAITING H
R270(1)	MTR5EX	C7	68Ω	MTR EBUS 18 H
R269(1)	MTR5EX	C7	68Ω	MTR EBUS 19 H
R271(1)	MTR5EX	C5	68Ω	MTR EBUS 20 H
R273(1)	MTR5EX	C4	68Ω	MTR EBUS 21 H
R272(1)	MTR5EX	C2	68Ω	MTR EBUS 22 H
R268(1)	MTR5EX	C1	68Ω	MTR EBUS 23 H
R20(1)	MTR5EX	B7	68Ω	MTR EBUS 24 H
R25(1)	MTR5EX	B6	68Ω	MTR EBUS 25 H
R185(1)	MTR5EX	B5	68Ω	MTR EBUS 26 H
R211(1)	MTR5EX	B4	68Ω	MTR EBUS 27 H
R209(1)	MTR5EX	B2	68Ω	MTR EBUS 28 H
R206(1)	MTR5EX	B1	68Ω	MTR EBUS 29 H
R186(1)	MTR5EX	A7	68Ω	MTR EBUS 30 H
R230(1)	MTR5EX	A6	68Ω	MTR EBUS 31 H
R231(1)	MTR5EX	A5	68Ω	MTR EBUS 32 H
R228(1)	MTR5EX	A4	68Ω	MTR EBUS 33 H

NOTE:

1. ALL TERMINATORS HAVE PIN TWO CONNECTED TO -2.0V AND ARE 5% 1/4WATT UNLESS OTHERWISE SPECIFIED
2. ENTRIES ARE SORTED BY SIGNAL NAME
3. % INDICATES OUTPUT OF DIP LOC AND () INDICATES PIN NUMBER

REVISIONS		
CHK	CHANGE NO.	REV
	M8538-00002	B1
	J.LEONARD	

digital	DRN. C Smith	DATE 08-DEC-75	ENG.	DATE 17-FEB-76
	CHK'D.	DATE	BOARD LOCATION: SHEET 1 OF 2	
M8538.DRA[4,427]	08-DEC-75 11:47	NEXT HIGHER ASSEMBLY:		
FIRST USED ON OPTION/MODEL: KL10		B-DD-M8538-0		

TITLE: METERS TERMINATORS

SIZE	CODE	NUMBER	REV.
D	CS	M8538-0-RES	B1

SIZE	CODE	NUMBER	REV.
D	CS	M8538-0-RES	B1

RESISTOR LOC(PIN)	SHOWN DRW#	ON REF	VALUE	TERMINATES SIGNAL
R224(1)	MTR5	A2	68Ω	MTR EBUS 34 H
R223(1)	MTR5	A1	68Ω	MTR EBUS 35 H
R81(1)	MTR2	B6	68Ω	MTR EXEC ACCT EN H
R125(1)	MTR5	D4	68Ω	MTR HOLD INTERRUPT SEL H
R6(1)	MTR5	D3	68Ω	MTR INCR SEL 1 H
R188(1)	MTR5	D3	68Ω	MTR INCR SEL 2 H
R202(1)	MTR1	C2	68Ω	MTR INTERVAL 06 H
R194(1)	MTR1	C2	68Ω	MTR INTERVAL 07 H
R201(1)	MTR1	C2	68Ω	MTR INTERVAL 08 H
R200(1)	MTR1	C2	68Ω	MTR INTERVAL 09 H
R44(1)	MTR1	B2	68Ω	MTR INTERVAL 10 H
R46(1)	MTR1	B2	68Ω	MTR INTERVAL 11 H
R158(1)	MTR1	B2	68Ω	MTR INTERVAL 12 H
R97(1)	MTR1	B2	68Ω	MTR INTERVAL 13 H
R170(1)	MTR1	A2	68Ω	MTR INTERVAL 14 H
R174(1)	MTR1	A2	68Ω	MTR INTERVAL 15 H
R176(1)	MTR1	A2	68Ω	MTR INTERVAL 16 H
R177(1)	MTR1	A2	68Ω	MTR INTERVAL 17 H
R54(1)	MTR2	B1	68Ω	MTR INTERVAL CLK H
R59(1)	MTR1	C2	68Ω	-MTR INTERVAL CRY H
P53(1)	MTR1	B2	68Ω	-MTR INTERVAL CRY 14 IN H
R7(1)	MTR3	C2	68Ω	MTR INTERVAL DONE H
R58(1)	MTR3	C4	68Ω	MTR INTERVAL MATCH H
R152(1)	MTR3	B6	68Ω	MTR INTERVAL MATCH INH H
R189(1)	MTR3	B7	68Ω	MTR INTERVAL OFF H
R201(1)	MTR3	C7	68Ω	MTR INTERVAL ON H
R11(1)	MTR3	D2	68Ω	MTR INTERVAL OVRFLO H
R291(1)	MTR3	A6	68Ω	MTR LOAD PA LEFT H
R210(1)	MTR3	A6	68Ω	MTR LOAD PA RIGHT H
R?3(1)	MTR2	C2	68Ω	MTR MBOX CLK A H
R212(1)	MTR2	C2	68Ω	MTR MBOX CLK B H
R299(1)	MTR2	C2	68Ω	MTR MBOX CLK C H
R206(1)	MTR2	C2	68Ω	MTR MBOX CLK D H
R244(1)	MTR2	C2	68Ω	MTR MBOX CLK E H
R149(1)	MTR4	C7	68Ω	MTR MODE PA DONT CARE H
R262(1)	MTR4	C7	68Ω	MTR NO P1 PA EN H
R218(1)	MTR4	C7	68Ω	MTR PA EVENT MODE H
R225(1)	MTR4	A2	68Ω	MTR PERF CNT CLK H
R222(1)	MTR4	A1	68Ω	-MTR PERF CNT CLK H
R131(1)	MTR1	D2	68Ω	MTR PERF COUNT 02 H

RESISTOR LOC(PIN)	SHOWN DRW#	ON REF	VALUE	TERMINATES SIGNAL
R193(1)	MTR1	D2	68Ω	MTR PERF COUNT 03 H
R10(1)	MTR1	D2	68Ω	MTR PERF COUNT 04 H
R14(1)	MTR1	D2	68Ω	MTR PERF COUNT 05 H
R70(1)	MTR1	C3	68Ω	MTR PERF COUNT 06 H
R197(1)	MTR1	C3	68Ω	MTR PERF COUNT 07 H
R73(1)	MTR1	C3	68Ω	MTR PERF COUNT 08 H
R134(1)	MTR1	C3	68Ω	MTR PERF COUNT 09 H
R91(1)	MTR1	B3	68Ω	MTR PERF COUNT 10 H
R95(1)	MTR1	B3	68Ω	MTR PERF COUNT 11 H
R159(1)	MTR1	B3	68Ω	MTR PERF COUNT 12 H
R98(1)	MTR1	B3	68Ω	MTR PERF COUNT 13 H
R164(1)	MTR1	A4	68Ω	MTR PERF COUNT 14 H
R171(1)	MTR1	A4	68Ω	MTR PERF COUNT 15 H
R114(1)	MTR1	A4	68Ω	MTR PERF COUNT 16 H
R186(1)	MTR1	A4	68Ω	MTR PERF COUNT 17 H
R132(1)	MTR1	C3	68Ω	-MTR PERF CRY 18 IN H
R68(1)	MTR3	D7	68Ω	MTR PERIOD 06 H
R195(1)	MTR3	D7	68Ω	MTR PERIOD 07 H
R72(1)	MTR3	D7	68Ω	MTR PERIOD 08 H
R88(1)	MTR3	D7	68Ω	MTR PERIOD 09 H
P105(1)	MTR3	D7	68Ω	MTR PERIOD 10 H
R104(1)	MTR3	D7	68Ω	MTR PERIOD 11 H
R103(1)	MTR3	D6	68Ω	MTR PERIOD 12 H
R102(1)	MTR3	D6	68Ω	MTR PERIOD 13 H
R169(1)	MTR3	D6	68Ω	MTR PERIOD 14 H
R178(1)	MTR3	D6	68Ω	MTR PERIOD 15 H
R116(1)	MTR3	D6	68Ω	MTR PERIOD 16 H
R111(1)	MTR3	D6	68Ω	MTR PERIOD 17 H
R84(1)	MTR2	B6	68Ω	MTR P1 ACCT EN H
R82(1)	MTR2	C7	68Ω	MTR P1 IN PROG H
R32(1)	MTR2	C7	68Ω	-MTR P1 IN PROG H
R205(1)	MTR4	D5	68Ω	MTR P1 LEVEL 1 H
R204(1)	MTR4	D5	68Ω	MTR P1 LEVEL 2 H
R247(1)	MTR4	D5	68Ω	MTR P1 LEVEL 4 H
R256(1)	MTR4	D7	68Ω	MTR P10 PA EN H
R254(1)	MTR4	D5	68Ω	MTR P11 PA EN H
R252(1)	MTR4	D5	68Ω	MTR P12 PA EN H
R251(1)	MTR4	D5	68Ω	MTR P13 PA EN H
R245(1)	MTR4	D5	68Ω	MTR P14 PA EN H
R248(1)	MTR4	D5	68Ω	MTR P15 PA EN H

RESISTOR LOC(PIN)	SHOWN DRW#	ON REF	VALUE	TERMINATES SIGNAL
R249(1)	MTR4	D5	68Ω	MTR P16 PA EN H
R250(1)	MTR4	D5	68Ω	MTR P17 PA EN H
R143(1)	MTR4	C4	68Ω	MTR PROBE LOW PA EN H
R145(1)	MTR4	C4	68Ω	MTR PROBE PA DONT CARE H
R28(1)	MTR5	D5	68Ω	MTR READ INTERVAL H
R304(1)	MTR5	D6	68Ω	MTR READ MTR A H
R13(1)	MTR5	D6	68Ω	-MTR READ MTR A H
R79(1)	MTR5	C6	68Ω	-MTR READ MTR B H
R30(1)	MTR5	D5	68Ω	MTR READ PERF CNT H
R61(1)	MTR5	D5	68Ω	MTR READ TIME H
R240(1)	MTR5	D2	68Ω	MTR RESET H
R229(1)	MTR5	D2	68Ω	-MTR RESET H
R122(1)	MTR3	A5	68Ω	MTR RESET A H
R154(1)	MTR3	A5	68Ω	-MTR RESET A H
R57(1)	MTR3	D4	68Ω	MTR RESET INTERVAL H
R241(1)	MTR3	A7	68Ω	MTR RESET PLSD H
R307(1)	MTR3	A7	68Ω	-MTR RESET PLSD H
R294(1)	MTR4	B1	68Ω	MTR T1
R293(1)	MTR4	B1	68Ω	MTR T2
R292(1)	MTR4	B1	68Ω	MTR T3
R118(1)	MTR2	C3	68Ω	-MTR TEN USEC H
R128(1)	MTR1	D3	68Ω	MTR TIME 02 H
R192(1)	MTR1	D3	68Ω	MTR TIME 03 H
R9(1)	MTR1	D3	68Ω	MTR TIME 04 H
R65(1)	MTR1	D3	68Ω	MTR TIME 05 H
R71(1)	MTR1	C4	68Ω	MTR TIME 06 H
R246(1)	MTR1	C4	68Ω	MTR TIME 07 H
R76(1)	MTR1	C4	68Ω	MTR TIME 08 H
R135(1)	MTR1	C4	68Ω	MTR TIME 09 H
R90(1)	MTR1	B4	68Ω	MTR TIME 10 H
R94(1)	MTR1	B4	68Ω	MTR TIME 11 H
R160(1)	MTR1	B4	68Ω	MTR TIME 12 H
R99(1)	MTR1	B4	68Ω	MTR TIME 13 H
R165(1)	MTR1	A5	68Ω	MTR TIME 14 H
R168(1)	MTR1	A5	68Ω	MTR TIME 15 H
R113(1)	MTR1	A5	68Ω	MTR TIME 16 H
R107(1)	MTR1	A5	68Ω	MTR TIME 17 H
R123(1)	MTR2	B3	68Ω	MTR TIME CLK H
R77(1)	MTR1	C4	68Ω	-MTR TIME CRY 10 IN H
R203(1)	MTR2	C4	68Ω	MTR TIME ON H

RESISTOR LOC(PIN)	SHOWN DRW#	ON REF	VALUE	TERMINATES SIGNAL
R19(1)	MTR2	C4	68Ω	-MTR TIME ON H
R147(1)	MTR4	C4	68Ω	MTR UCODE PA DONT CARE H
R142(1)	MTR4	C7	68Ω	MTR USER PA EN H
R127(1)	MTR5	D3	68Ω	MTR VECTOR REQ H
R232(1)	MTR2	C3	68Ω	MTR2 COUNT TEN USEC H
R156(1)	MTR3	C4	68Ω	MTR3 NO MATCH 06-09 H
R155(1)	MTR3	C5	68Ω	MTR3 NO MATCH 10-13 H
R152(1)	MTR3	C5	68Ω	MTR3 NO MATCH 14-17 H
R239(1)	MTR3	B3	68Ω	MTR3 RESET PERF H
R238(1)	MTR3	B3	68Ω	MTR3 RESET TIME H
R22(1)	MTR5	D5	68Ω	NC
R255(1)	MTR4	B7	68Ω	P12 HOLD 1 H
R263(1)	MTR4	B7	68Ω	P12 HOLD 2 H
R267(1)	MTR4	B7	68Ω	P12 HOLD 4 H
R265(1)	MTR4	B7	68Ω	P12 P11 A H
R264(1)	MTR4	B7	68Ω	P12 P12 A H
R266(1)	MTR4	B7	68Ω	P12 P14 A H
R126(1)	MTR5	D3	68Ω	P13 MTR HONOR H
R112(1)	MTR5	A2	68Ω	P13 MTR PIA 01 H
R117(1)	MTR5	A3	68Ω	P13 MTR PIA 02 H
R175(1)	MTR5	A4	68Ω	P13 MTR PIA 04 H
R261(1)	MTR4	B5	68Ω	PROBE H
R86(1)	MTR4	B4	68Ω	-SCD USER A H
R308(1)	MTR4	B7	68Ω	-VMA AC REF A H

NOTE:

1. ALL TERMINATORS HAVE PIN TWO CONNECTED TO -2.0V AND ARE 5% 1/4WATT UNLESS OTHERWISE SPECIFIED
2. ENTRIES ARE SORTED BY SIGNAL NAME
3. % INDICATES OUTPUT OF DIP LOC AND
   () INDICATES PIN NUMBER

REVISIONS		
CHK	CHANGE NO.	REV
	M8539-00003	B1
	J. LEONARD	

digital	DRN. C Smith	DATE 17-FEB-76	ENG [signature] DATE 17-FEB-76
	CHK'D.	DATE	BOARD LOCATION: SHEET 2 OF 2
M8538.DRW[4,427]	17-FEB-76 13:37	NEXT HIGHER ASSEMBLY:	
FIRST USED ON OPTION/MODEL: KL10		B-DD-M9539-0	

TITLE: METERS TERMINATORS

SIZE	CODE	NUMBER	REV.
D	CS	M8538-0-RES	B1