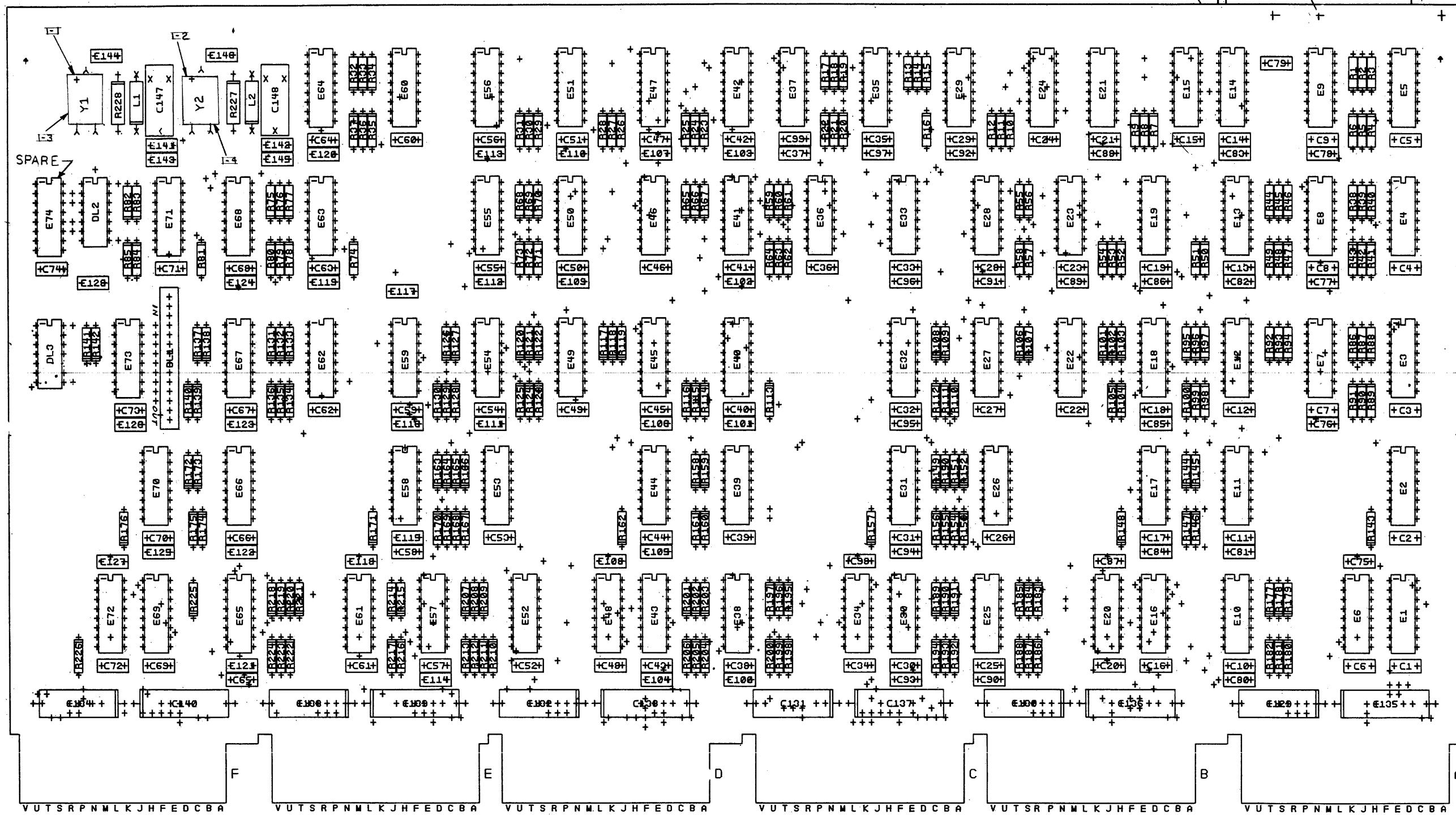


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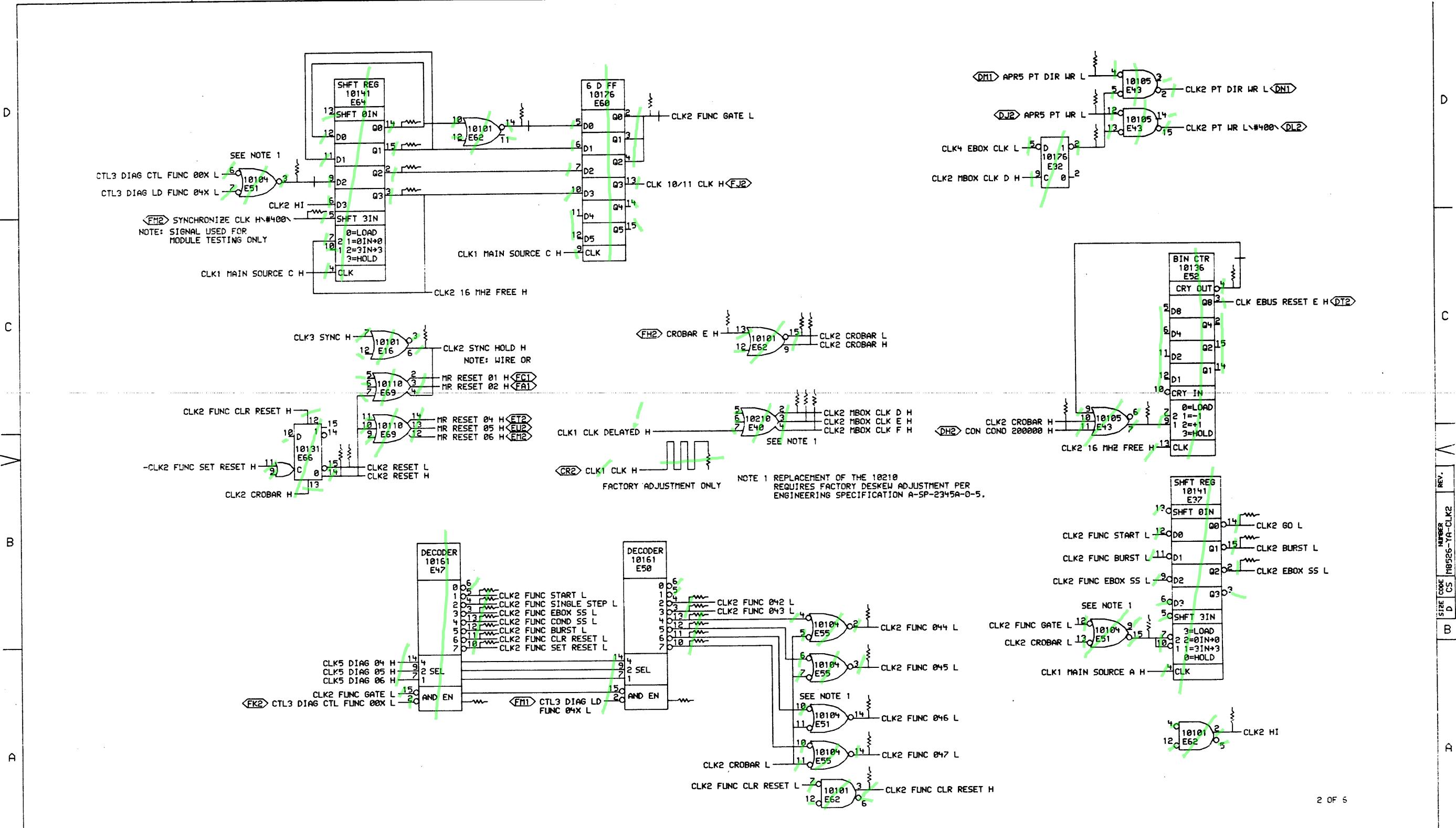


NOTES

| CHG CHANGE | NO | REV |
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ETCH REV. C-P1
P.C. DESIGN DATA BASE REV. C-P1

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|----------------------------------|-----------|---------------|------------|--|-----|
| SIGNATURES | DATE | | | | |
| DRN. <i>Linda Foster</i> | 9/26/77 | d i g i t a l | | | |
| CHK'D. RW <i>Lawton</i> | (9/26/77) | | | | |
| ENG. <i>W. Burkhardt</i> | 24/FEB/77 | TITLE | | | |
| PROJ. ENG. <i>W. Burkhardt</i> | AFEB/77 | CLK CONTROL | | | |
| PROD. <i>Bill Early</i> | 11/MAR/77 | | | | |
| SCALE <i>2/1</i> | SIZE | CODE | NUMBER | | REV |
| SHT. 2 OF 5 | D | UA | M8526-YA-Ø | | A |
| NEXT HIGHER FSSY: R-DN-MR8526-YA | | | | | |



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| | |
|-----|--------|
| | REVIS |
| CHK | CHANGE |
| | |

digit DRW: [Signature]
CLK2EF.DRW [4,677] 28 FEB
FIRST USED ON OPTION/MODEL: K

DATE
 25-FEB-
 DATE
 2/27/2008
 -77 11:08 N
 L10 E

ENG.
W. Bruce
BOARD LOC
2 SHEET
NEXT HIGHER
B-DD-M852

short D
291
LOCATION: 4
1 OF
ASSEMBLY:
P6-YA

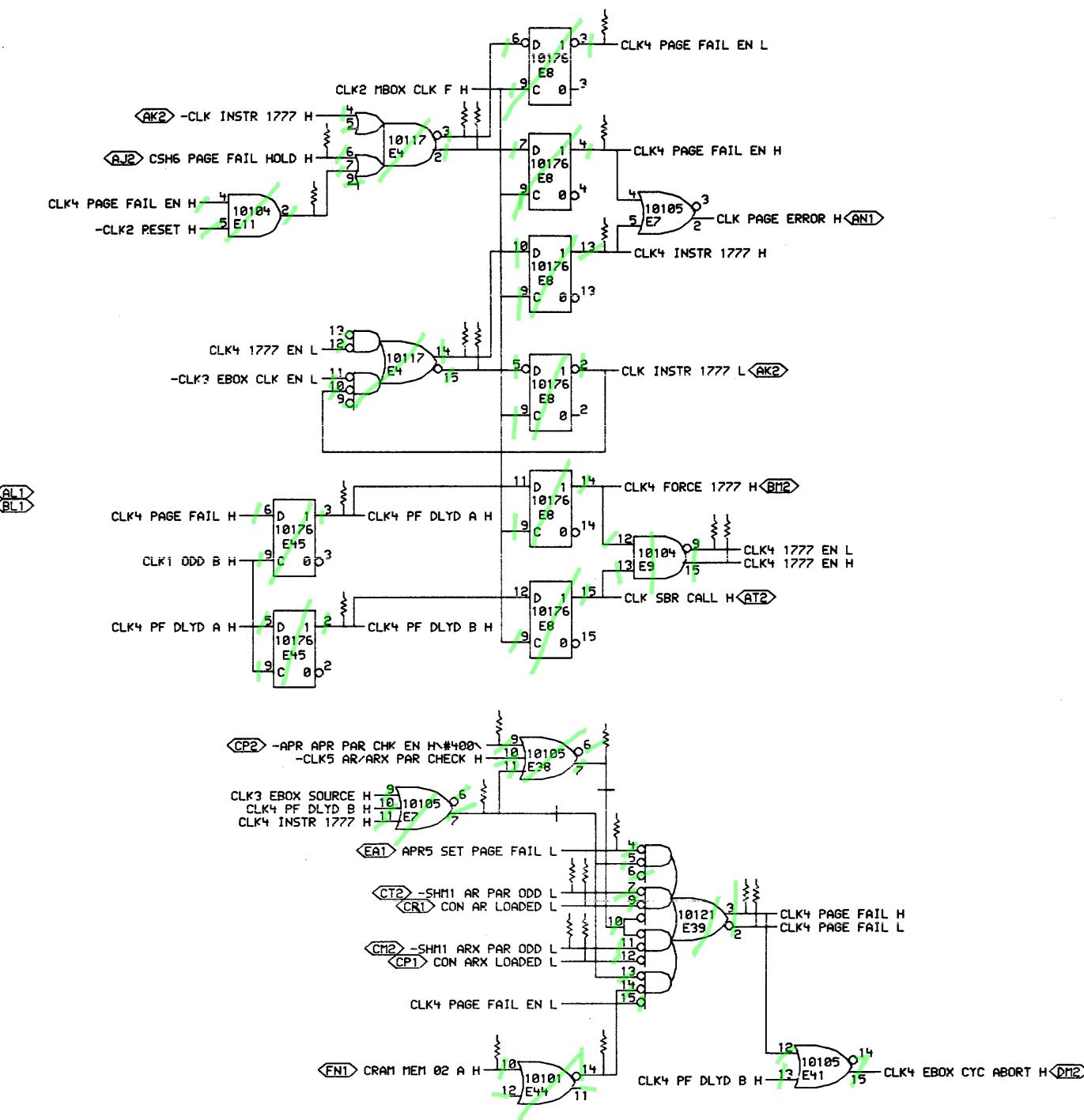
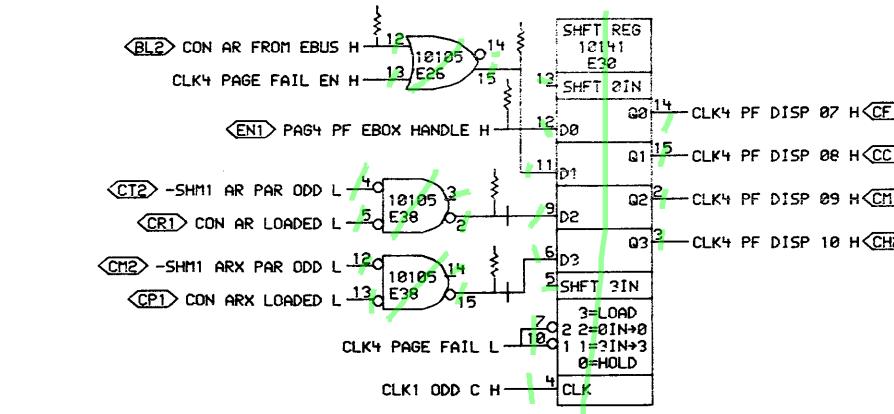
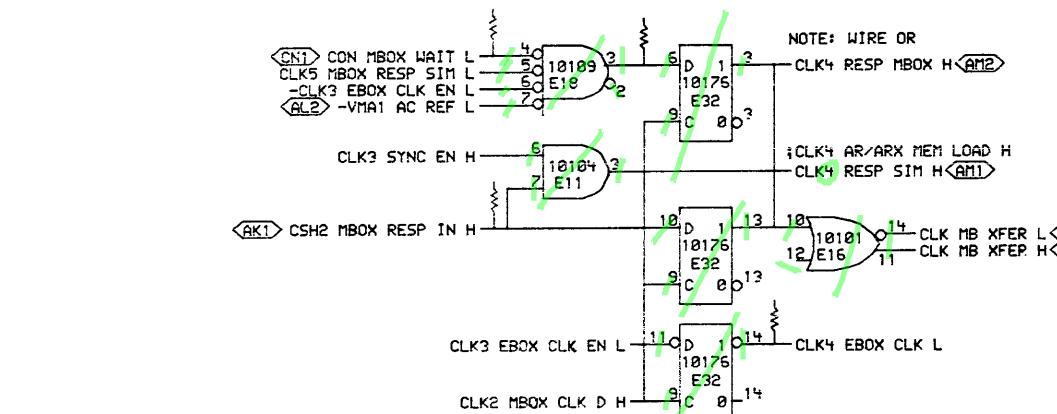
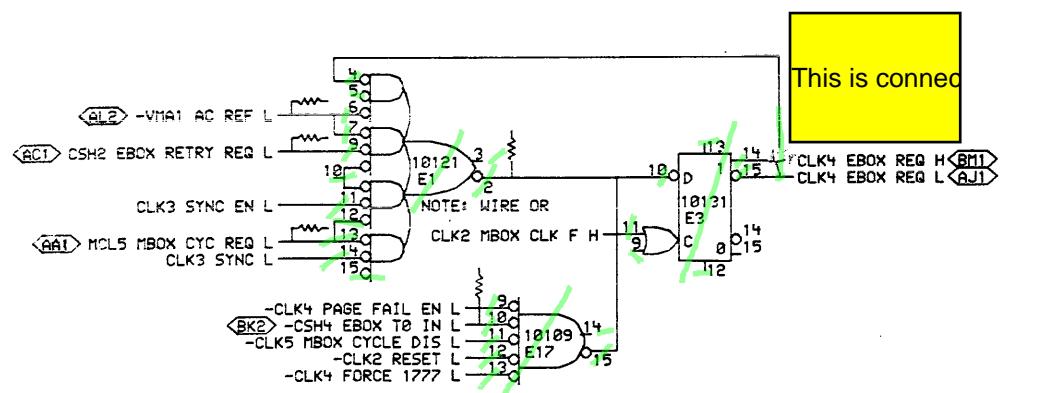
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| DATE FEB 17 | TITLE |
| AF32 | |
| 1 | SIZE D |

C
DIAGN
CODE CS M85

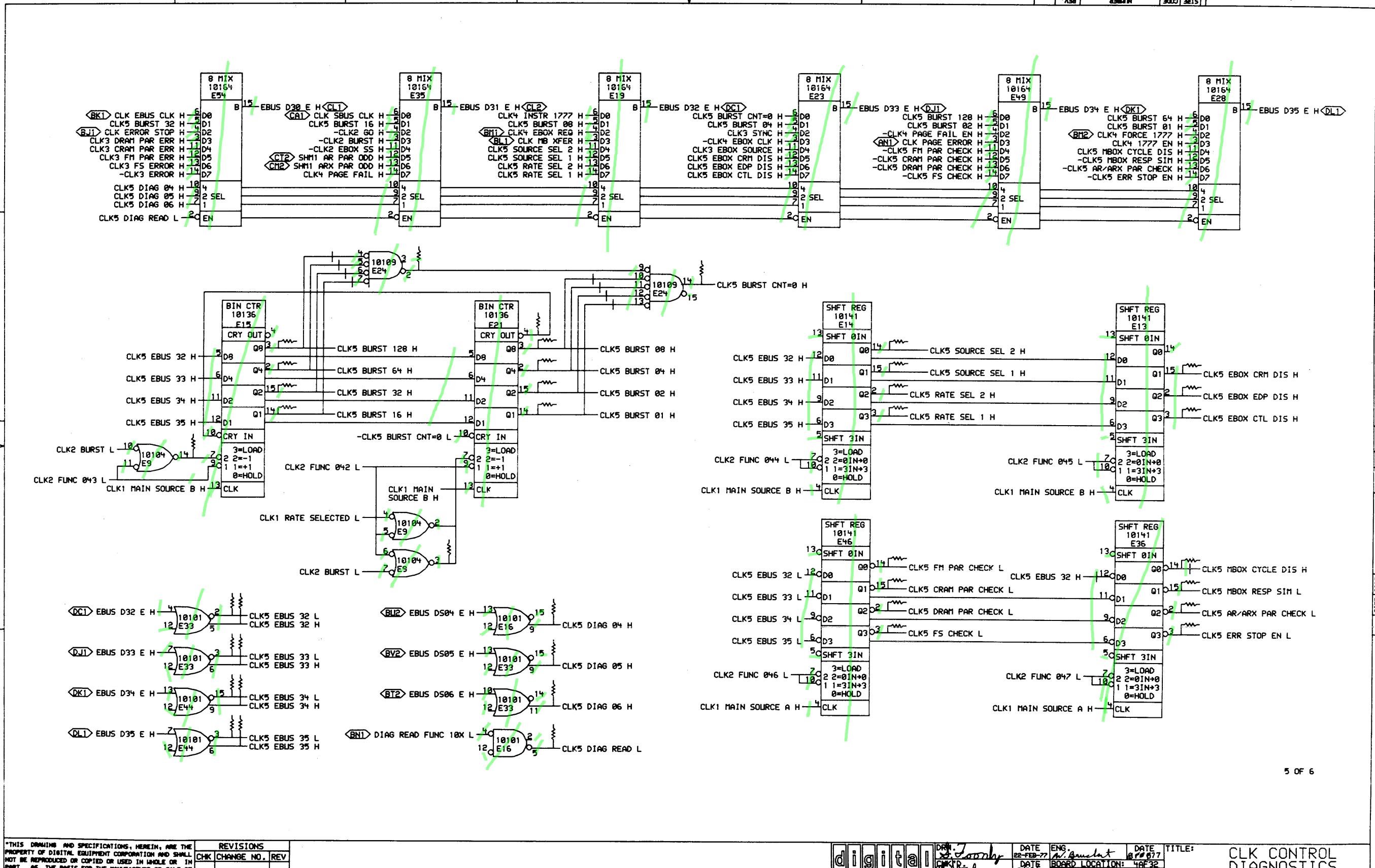
ALK CO
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526-YA-0

CLK2

TROL
REV.



4 OF 6



5 OF 6

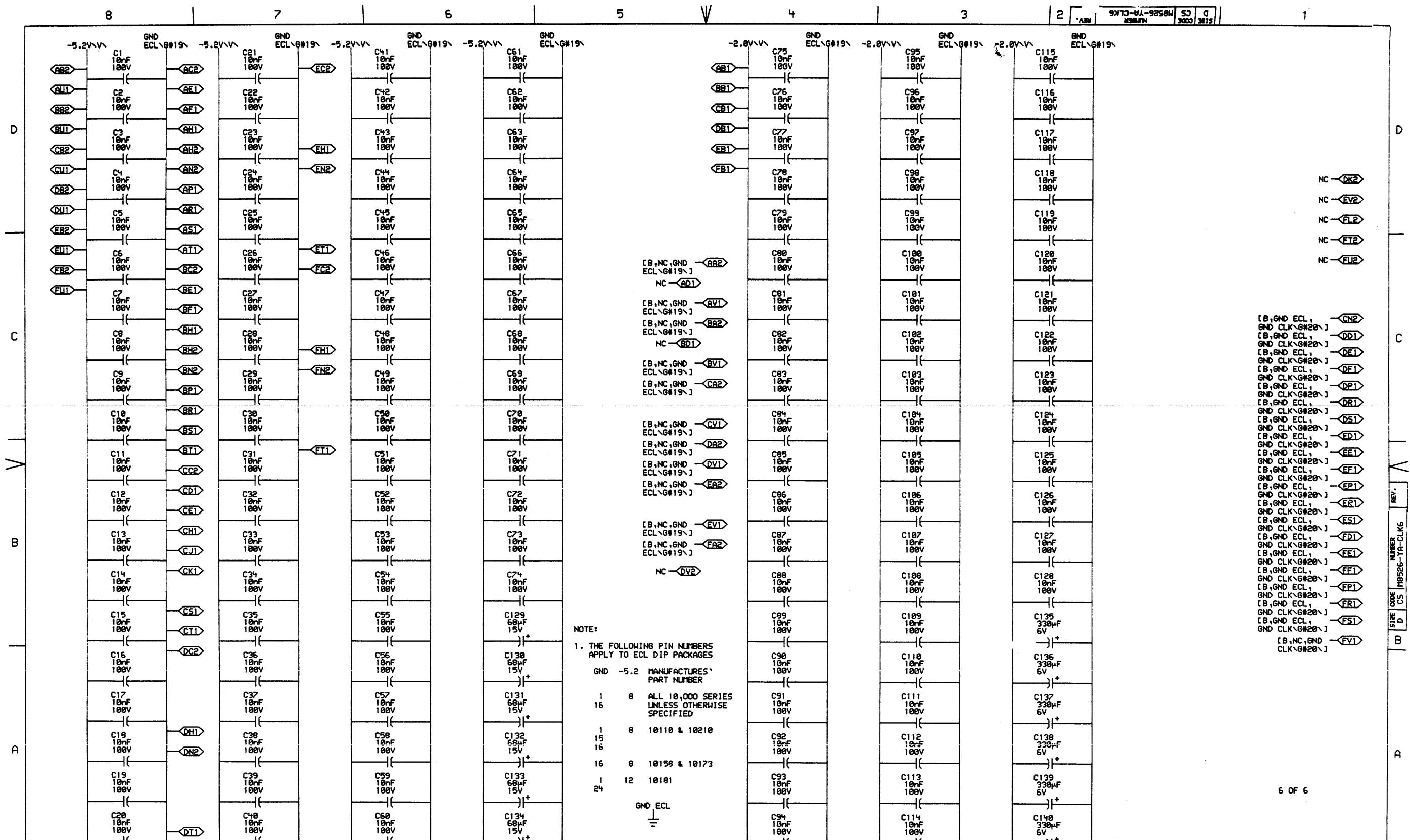
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REVISIONS

CHG CHANGE NO. REV

| SIZE | CODE | NUMBER | REV. |
|-------|------|---------------|------|
| D | CS | M8526-YA-CLK5 | REV. |
| SHEET | 1 | 1 | |
| 1 | | | |
| 2 | | | |
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| 7 | | | |
| 8 | | | |

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|----------------------------------|-----------------|-----------------------|----------------|--------------------|
| DRW. 7007 | DATE 22-FEB-77 | ENG. J. Gruenert | DATE 20-FEB-77 | TITLE: CLK CONTROL |
| PKWD. P. Schaefer | DATE 2/23/77 | BOARD LOCATION: 4AF32 | | DIAGNOSTICS |
| CLK5EF.DRWA4.5571 | 14-FEB-77 20:38 | SHEET 1 OF 1 | | |
| FIRST USED ON OPTION/MODEL: KL10 | B-DD-M8526-YA | | | |
| SIZE | CODE | NUMBER | REV. | |
| D | CS | M8526-YA-CLK5 | REV. | |



| | |
|---|--------|
| E | REV |
| L | CHK |
| N | CHANGE |
| F | |

1



| D | RESISTOR LOC(PIN) | SHOWN ON DRW# | REF | VALUE | TERMINATES SIGNAL | RESISTOR LOC(PIN) | SHOWN ON DRW# | REF | VALUE | TERMINATES SIGNAL | RESISTOR LOC(PIN) | SHOWN ON DRW# | REF | VALUE | TERMINATES SIGNAL | RESISTOR LOC(PIN) | SHOWN ON DRW# | REF | VALUE | TERMINATES SIGNAL |
|---|------------------------------|---------------|-----|-------|-------------------|---|---------------|-----|-------|-------------------|---|---------------|-----|-------|-------------------|--|---------------|-----|-------|-------------------|
| | R85C1> CLK1 C4 100Ω %DL2(7) | | | | | R22C1> CLK2 B2 68Ω %E51(15) | | | | | R140C1> CLK1 C6 100Ω CLK1 EBUS CLK SOURCE H | | | | | R178C1> CLK2 B7 68Ω -CLK2 RESET H | | | | |
| | R142C1> CLK1 C3 100Ω %DL3(7) | | | | | R36C1> CLK2 D7 68Ω %E51(3) | | | | | R77C1> CLK1 C2 68Ω -CLK1 ERROR STOP H | | | | | R225C1> CLK2 C6 68Ω CLK2 SYNC HOLD H | | | | |
| | R87C1> CLK4 D7 68Ω %E11(2) | | | | | R204C1> CLK2 C2 68Ω %E52(4) | | | | | R137C1> CLK1 C7 100Ω CLK1 GATED H | | | | | R124C1> CLK3 D6 68Ω CLK3 CRAM PAR ERR H | | | | |
| | R88C1> CLK4 D4 68Ω %E11(2) | | | | | R29C1> CLK1 C7 68Ω %E56(2) | | | | | R31C1> CLK1 B3 68Ω CLK1 GATED EN H | | | | | R127C1> CLK3 D6 68Ω CLK3 DRAM PAR ERR H | | | | |
| | R146C1> CLK3 A5 68Ω %E11(9) | | | | | R211C1> CLK3 B7 68Ω %E57(3) | | | | | R18C1> CLK1 D3 68Ω CLK1 MAIN SOURCE A H | | | | | R105C1> CLK3 C3 68Ω CLK3 EBOX CLK EN H | | | | |
| | R143C1> CLK3 B2 68Ω %E12(14) | | | | | R166C1> CLK3 D6 68Ω %E58(2) | | | | | R2C1> CLK1 D3 68Ω CLK1 MAIN SOURCE B H | | | | | R188C1> CLK3 C3 68Ω -CLK3 EBOX CLK EN H | | | | |
| | R148C1> CLK3 B2 68Ω %E12(15) | | | | | R165C1> CLK3 D6 68Ω %E58(3) | | | | | R30C1> CLK1 D3 68Ω CLK1 MAIN SOURCE C H | | | | | R158C1> CLK3 C6 68Ω CLK3 EBOX CLK ERROR H | | | | |
| | R157C1> CLK3 A2 68Ω %E12(2) | | | | | R168C1> CLK3 C6 68Ω %E58(4) | | | | | R162C1> CLK1 B2 68Ω CLK1 MBOX A H | | | | | R108C1> CLK3 C6 68Ω -CLK3 EBOX CLK ERROR H | | | | |
| | R152C1> CLK3 A4 68Ω %E17(3) | | | | | R34C1> CLK2 D6 68Ω %E62(14) | | | | | R171C1> CLK1 A2 68Ω CLK1 MBOX B H | | | | | R53C1> CLK3 B3 68Ω CLK3 EBOX SOURCE H | | | | |
| C | R93C1> CLK3 B4 68Ω %E18(14) | | | | | R21C1> CLK1 A4 68Ω %E63(2) | | | | | R176C1> CLK1 A2 68Ω CLK1 MBOX C H | | | | | R109C1> CLK3 C6 68Ω -CLK3 EBOX SOURCE H | | | | |
| | R118C1> CLK4 C6 68Ω %E18(3) | | | | | R135C1> CLK2 D6 68Ω %E64(14) | | | | | R97C1> CLK1 C1 68Ω CLK1 ODD A H | | | | | R86C1> CLK3 B4 68Ω CLK3 EBOX SRC EN H | | | | |
| | R8C1> CLK5 C5 68Ω %E21(4) | | | | | R33C1> CLK2 D6 68Ω %E64(15) | | | | | R115C1> CLK1 C1 68Ω CLK1 ODD B H | | | | | R170C1> CLK3 B4 68Ω -CLK3 EBOX SRC EN H | | | | |
| | R92C1> CLK3 B4 68Ω %E22(14) | | | | | R35C1> CLK2 D6 68Ω %E64(2) | | | | | R191C1> CLK1 C1 68Ω CLK1 ODD C H | | | | | R167C1> CLK3 C7 68Ω CLK3 ERROR H | | | | |
| | R10C1> CLK5 C6 68Ω %E24(2) | | | | | R169C1> CLK3 C7 68Ω %E65(15) | | | | | R79C1> CLK1 B7 68Ω -CLK1 RATE SELECTED H | | | | | R122C1> CLK3 C6 68Ω -CLK3 ERROR H | | | | |
| | R154C1> CLK3 C4 68Ω %E25(14) | | | | | R164C1> CLK3 D7 68Ω %E65(2) | | | | | R209C1> CLK2 D6 68Ω CLK2 16 MHZ FREE H | | | | | R100C1> CLK3 D7 68Ω CLK3 ERROR HOLD A H | | | | |
| | R153C1> CLK3 C4 68Ω %E25(15) | | | | | R163C1> CLK3 D7 68Ω %E65(7) | | | | | R6C1> CLK2 B2 68Ω -CLK2 BURST H | | | | | R95C1> CLK3 B6 68Ω CLK3 ERROR HOLD B H | | | | |
| | R156C1> CLK3 C4 68Ω %E25(2) | | | | | R114C1> CLK1 D3 68Ω %E67(15) | | | | | R206C1> CLK2 C4 68Ω CLK2 CROBAR H | | | | | R116C1> CLK3 B6 68Ω -CLK3 ERROR HOLD B H | | | | |
| | R158C1> CLK3 C4 68Ω %E25(4) | | | | | R80C1> CLK1 D5 68Ω %E68(14) | | | | | R25C1> CLK2 C4 68Ω -CLK2 CROBAR H | | | | | R120C1> CLK3 C6 68Ω CLK3 FM PAR ERR H | | | | |
| | R198C1> CLK4 B7 68Ω %E26(15) | | | | | R138C1> CLK1 D5 68Ω %E68(15) | | | | | R90C1> CLK2 B2 68Ω -CLK2 EBOX SS H | | | | | R214C1> CLK3 B7 68Ω CLK3 FS EN A H\#400\ | | | | |
| | R155C1> CLK3 D3 68Ω %E26(7) | | | | | R132C1> CLK1 D5 68Ω %E68(2) | | | | | R1C1> CLK2 B5 68Ω -CLK2 FUNC 042 H | | | | | R215C1> CLK3 B7 68Ω CLK3 FS EN B H\#400\ | | | | |
| | R99C1> CLK3 B4 68Ω %E27(14) | | | | | R81C1> CLK1 D5 68Ω %E68(3) | | | | | R5C1> CLK2 B5 68Ω -CLK2 FUNC 043 H | | | | | R217C1> CLK3 B7 68Ω CLK3 FS EN C H\#400\ | | | | |
| | R71C1> CLK1 C2 68Ω %E27(2) | | | | | R200C1> CLK4 B3 68Ω %E7(7) | | | | | R4C1> CLK2 B4 68Ω -CLK2 FUNC 044 H | | | | | R216C1> CLK3 B7 68Ω CLK3 FS EN D H\#400\ | | | | |
| | R89C1> CLK3 D2 68Ω %E31(15) | | | | | R174C1> CLK1 A6 68Ω %E70(15) | | | | | R49C1> CLK2 A4 68Ω -CLK2 FUNC 045 H | | | | | R213C1> CLK3 B7 68Ω CLK3 FS EN E L\#400\ | | | | |
| | R202C1> CLK2 D2 68Ω %E32(2) | | | | | R175C1> CLK1 B5 68Ω %E70(3) | | | | | R67C1> CLK2 A4 68Ω -CLK2 FUNC 046 H | | | | | R212C1> CLK3 B7 68Ω CLK3 FS EN F L\#400\ | | | | |
| | R193C1> CLK4 A7 68Ω %E38(15) | | | | | R76C1> CLK1 C6 68Ω %E71(14) | | | | | R62C1> CLK2 A4 68Ω -CLK2 FUNC 047 H | | | | | R207C1> CLK3 B7 68Ω CLK3 FS EN G L\#400\ | | | | |
| | R192C1> CLK4 A7 68Ω %E38(2) | | | | | R84C1> CLK1 C7 68Ω %E71(15) | | | | | R20C1> CLK2 B6 68Ω -CLK2 FUNC BURST H | | | | | R121C1> CLK3 C6 68Ω CLK3 FS ERROR H | | | | |
| | R196C1> CLK4 B3 68Ω %E38(7) | | | | | R83C1> CLK1 D7 68Ω %E71(2) | | | | | R172C1> CLK2 A4 68Ω CLK2 FUNC CLR RESET H | | | | | R64C1> CLK3 C6 68Ω -CLK3 FS ERROR H | | | | |
| | R42C1> CLK4 C3 68Ω %E4(14) | | | | | R75C1> CLK1 D6 68Ω %E71(3) | | | | | R134C1> CLK2 B6 68Ω -CLK2 FUNC CLR RESET H | | | | | R59C1> CLK3 C1 68Ω CLK3 SYNC H | | | | |
| B | R46C1> CLK4 C3 68Ω %E4(15) | | | | | R141C1> CLK1 C4 100Ω %E73(15) | | | | | R14C1> CLK2 B6 68Ω -CLK2 FUNC COND SS H | | | | | R151C1> CLK3 C1 68Ω -CLK3 SYNC H | | | | |
| | R94C1> CLK4 D3 68Ω %E4(2) | | | | | R82C1> CLK1 C5 100Ω %E73(3) | | | | | R60C1> CLK2 B6 68Ω -CLK2 FUNC EBOX SS H | | | | | R177C1> CLK3 D2 68Ω CLK3 SYNC EN H | | | | |
| | R45C1> CLK4 D3 68Ω %E4(3) | | | | | R74C1> CLK1 C3 68Ω %E73(5) | | | | | R26C1> CLK2 D5 68Ω -CLK2 FUNC GATE H | | | | | R181C1> CLK3 D2 68Ω -CLK3 SYNC EN H | | | | |
| | R23C1> CLK1 A4 68Ω %E41(2) | | | | | R7C1> CLK5 B7 68Ω %E9(14) | | | | | R173C1> CLK2 B6 68Ω -CLK2 FUNC SET RESET H | | | | | R55C1> CLK4 C2 68Ω CLK4 1777 EN H | | | | |
| | R68C1> CLK1 D2 68Ω %E41(7) | | | | | R9C1> CLK5 B6 68Ω %E9(2) | | | | | R24C1> CLK2 B6 68Ω -CLK2 FUNC SINGLE STEP H | | | | | R40C1> CLK4 C2 68Ω -CLK4 1777 EN H | | | | |
| | R12C1> CLK1 B3 68Ω %E42(14) | | | | | R198C1> CLK4 B3 68Ω -APR APR PAR CHK EN H\#400\ | | | | | R17C1> CLK2 B6 68Ω -CLK2 FUNC START H | | | | | R11C1> CLK4 C6 68Ω -CLK4 EBOX CLK H | | | | |
| | R210C1> CLK2 C2 68Ω %E43(7) | | | | | R218C1> CLK3 C7 68Ω APR3 FM ODD PARITY H | | | | | R15C1> CLK2 B2 68Ω -CLK2 GO H | | | | | R51C1> CLK4 D3 68Ω CLK4 INSTR 1777 H | | | | |
| | R159C1> CLK4 A3 68Ω %E44(14) | | | | | R203C1> CLK2 D2 68Ω -APR5 PT DIR WR H | | | | | R37C1> CLK2 A2 68Ω CLK2 HI | | | | | R98C1> CLK4 A2 68Ω CLK4 PAGE FAIL H | | | | |
| | R73C1> CLK2 B5 68Ω %E50(10) | | | | | R201C1> CLK2 D2 68Ω -APR5 PT WR H | | | | | R111C1> CLK2 C4 68Ω CLK2 MBOX CLK D H | | | | | R194C1> CLK4 A2 68Ω -CLK4 PAGE FAIL H | | | | |
| | R28C1> CLK2 B5 68Ω %E50(11) | | | | | R160C1> CLK4 B3 68Ω -APR5 SET PAGE FAIL H | | | | | R182C1> CLK2 C4 68Ω CLK2 MBOX CLK E H | | | | | R183C1> CLK4 D3 68Ω CLK4 PAGE FAIL EN H | | | | |
| | R72C1> CLK2 B5 68Ω %E50(12) | | | | | R113C1> CLK2 B5 68Ω CLK1 CLK H | | | | | R43C1> CLK2 C4 68Ω CLK2 MBOX CLK F H | | | | | R119C1> CLK4 D3 68Ω -CLK4 PAGE FAIL EN H | | | | |
| | R69C1> CLK2 B5 68Ω %E50(13) | | | | | R130C1> CLK1 C2 68Ω CLK1 CLK ON H | | | | | R144C1> CLK2 B7 68Ω CLK2 RESET H | | | | | R38C1> CLK4 C4 68Ω CLK4 PF DLYD A H | | | | |

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| REVISIONS | |
|-----------|------------|
| CHK | CHANGE NO. |
| | |

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

| RESISTOR LOC(PIN) | SHOWN ON DRW# | REF | VALUE | TERMINATES SIGNAL |
|-------------------|---------------|-----|-------|------------------------|
| R91(1) | CLK4 | B4 | 68Ω | CLK4 PF DLYD B H |
| R199(1) | CLK5 | B2 | 68Ω | -CLK5 AR/ARX PAR CHECK |
| R57(1) | CLK5 | C5 | 68Ω | CLK5 BURST 01 H |
| R117(1) | CLK5 | C5 | 68Ω | CLK5 BURST 02 H |
| R56(1) | CLK5 | C5 | 68Ω | CLK5 BURST 04 H |
| R52(1) | CLK5 | C5 | 68Ω | CLK5 BURST 08 H |
| R118(1) | CLK5 | C7 | 68Ω | CLK5 BURST 128 H |
| R16(1) | CLK5 | C7 | 68Ω | CLK5 BURST 16 H |
| R129(1) | CLK5 | C7 | 68Ω | CLK5 BURST 32 H |
| R58(1) | CLK5 | C7 | 68Ω | CLK5 BURST 64 H |
| R54(1) | CLK5 | C4 | 68Ω | CLK5 BURST CNT=0 H |
| R219(1) | CLK5 | B3 | 68Ω | -CLK5 CRAM PAR CHECK |
| R125(1) | CLK5 | B5 | 68Ω | CLK5 DIAG 04 H |
| R123(1) | CLK5 | A5 | 68Ω | CLK5 DIAG 05 H |
| R128(1) | CLK5 | A5 | 68Ω | CLK5 DIAG 06 H |
| R126(1) | CLK5 | A5 | 68Ω | -CLK5 DIAG READ H |
| R222(1) | CLK5 | B3 | 68Ω | -CLK5 DRAM PAR CHECK |
| R101(1) | CLK5 | C2 | 68Ω | CLK5 EBOX CRM DIS H |
| R107(1) | CLK5 | C2 | 68Ω | CLK5 EBOX CTL DIS H |
| R96(1) | CLK5 | C2 | 68Ω | CLK5 EBOX EDP DIS H |
| R44(1) | CLK5 | B7 | 68Ω | CLK5 EBUS 32 H |
| R65(1) | CLK5 | B7 | 68Ω | -CLK5 EBUS 32 H |
| R48(1) | CLK5 | A7 | 68Ω | CLK5 EBUS 33 H |
| R66(1) | CLK5 | A7 | 68Ω | -CLK5 EBUS 33 H |
| R47(1) | CLK5 | A7 | 68Ω | CLK5 EBUS 34 H |
| R63(1) | CLK5 | A7 | 68Ω | -CLK5 EBUS 34 H |
| R58(1) | CLK5 | A7 | 68Ω | CLK5 EBUS 35 H |
| R61(1) | CLK5 | A7 | 68Ω | -CLK5 EBUS 35 H |
| R106(1) | CLK5 | B2 | 68Ω | -CLK5 ERR STOP EN H |
| R221(1) | CLK5 | B3 | 68Ω | -CLK5 FM PAR CHECK H |
| R208(1) | CLK5 | B3 | 68Ω | -CLK5 FS CHECK H |
| R145(1) | CLK5 | B2 | 68Ω | CLK5 MBOX CYCLE DIS H |
| R103(1) | CLK5 | B2 | 68Ω | -CLK5 MBOX RESP SIM H |
| R39(1) | CLK5 | C3 | 68Ω | CLK5 RATE SEL 1 H |
| R3(1) | CLK5 | C3 | 68Ω | CLK5 RATE SEL 2 H |
| R139(1) | CLK5 | C3 | 68Ω | CLK5 SOURCE SEL 1 H |
| R136(1) | CLK5 | C3 | 68Ω | CLK5 SOURCE SEL 2 H |
| R187(1) | CLK4 | B7 | 68Ω | CON AR FROM EBUS H |
| R197(1) | CLK4 | B3 | 68Ω | -CON AR LOADED H |
| R195(1) | CLK4 | A3 | 68Ω | -CON ARX LOADED H |

| RESISTOR LOCK(PIN) | SHOWN ON | VALUE | TERMINATES SIGNAL |
|-----------------------|-------------|-------|------------------------------|
| R205(1) | CLK2 | C3 | 68Ω CON CONO 200000 H |
| R149(1) | CLK3 | D3 | 68Ω CON DELAY REQ H |
| R224(1) | CLK3 | D8 | 68Ω CON LOAD DRAM H |
| R102(1) | CLK4 | C7 | 68Ω -CON MBOX WAIT H |
| R161(1) | CLK4 | A3 | 68Ω CRAM MEM 02 A H |
| R220(1) | CLK3 | D7 | 68Ω CRAM PAP 16 H |
| R165(1) | CLK3 | D3 | 68Ω CRAM T 00 H |
| R184(1) | CLK3 | D3 | 68Ω CRAM T 01 H |
| R133(1) | CLK2 | C4 | 68Ω CROBAR E H |
| R188(1) | CLK4 | D7 | 68Ω -CSH2 EBOX RETRY REQ H |
| R112(1) | CLK4 | C7 | 68Ω CSH2 MBOX RESP IN H |
| R147(1) | CLK4 | D7 | 68Ω CSMM EBOX T0 IN H |
| R41(1) | CLK4 | D4 | 68Ω CSM6 PAGE FAIL HOLD H |
| R186(1) | CLK3 | B2 | 68Ω CTL3 DIAG CLK EDP H |
| R27(1) | CLK2 | A6 | 68Ω -CTL3 DIAG CTL FUNC 00X |
| R70(1) | CLK2 | A5 | 68Ω -CTL3 DIAG LD FUNC 04X H |
| R78(1) | CLK1 | C3 | 68Ω DESKEW CLK HV#400N |
| R223(1) | CLK3 | D7 | 68Ω DRAM ODD PARITY H |
| R131(1) | CLK1 | D4 | 68Ω EXTERNAL CLK HV#420N |
| R226(1) | CLK1 | D4 | 278Ω EXTERNAL CLK HV#420N |
| R179(1) | CLK4 | D7 | 68Ω -MCL5 MBOX CYC REQ H |
| R189(1) | CLK4 | B7 | 68Ω PAG4 PF EBOX HANDLE H |
| R13(1) | CLK4 | B3 | 68Ω SHM1 AR PAR ODD H |
| R19(1) | CLK4 | A3 | 68Ω SHM1 ARX PAR ODD H |
| R32(1) | CLK2 | D7 | 68Ω SYNCHRONIZE CLK HV#400N |
| R104(1) | CLK4 | D7 | 68Ω VMA1 AC REF H |



| | | | | | | | | | | | |
|---------------|--------------------|-----------------------|-----------|-----------------|-------------------|------|-----------|--------------|------------------------|---|--|
| DRN. | <i>C Smith</i> | DATE | 23-FEB-77 | ENG. | <i>D. Breslau</i> | DATE | 24-FEB-77 | TITLE: | CLK CONTROL TERMINATOR | | |
| CHK BY | <i>W. Holloman</i> | DATE | 23-FEB-77 | BOARD LOCATION: | | | SHEET | 2 | OF | 2 | |
| 7) | 23-FEB-77 14:15 | NEXT HIGHER ASSEMBLY: | | | | SIZE | CODE | NUMBER | | | |
| N-MODEL: KL10 | | B-DD-M8526-YA | | | | D | CS | M8526-YA-RES | | | |