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D

C

B

A

INPUT/OUTPUT TRUTH TABLE

| * IN | OUT |
|------|-----|
| GND  | GND |
| +3V  | +3V |

TU15 RDS L AF1  
TU12 RSDWN L AE1  
TU12 RTUR L AD1  
  
TU17 XRD 0 L AA1  
TU17 XRD 1 L AB1  
TU17 XRD 2 L AH1  
TU17 XRD 3 L AK1  
TU17 XRD 4 L AL1  
TU17 XRD 5 L AN1  
TU17 XRD 6 L AS1  
TU17 XRD 7 L AV1  
TU17 XRDPL AM1  
TU15 FMK L AV1

M640  
AB08

MASTER/  
INTERFACE  
BUS  
DRIVER  
\*

TU16 WRS L AF2  
TU15 CRCS L AC1  
TU13 ERWS L AE2

TU13 E BOT L AD2  
TU13 EWRL L AH2  
TU17 VPE L AJ1  
TU13 SELR L AL2  
TU12 R7CH L AR2  
TU13 EEOT L AP2  
TU24 CRCE L AN2  
TU17 LRCE L AM2  
TU15 LRCS L

BA1  
BB1  
BC1  
  
BF1  
BH1  
BJ1  
BK1  
BL1  
BM1  
BN1  
BP1  
BR1  
BS1

BD2  
BE2  
BF2

BK2  
BL2  
BM2  
BN2  
BP2  
BR2  
BS2  
BT2  
BU2

M929  
B07

A1  
B1  
C1  
D1  
E1  
F1  
H1  
J1  
K1  
L1  
M1  
N1  
P1  
R1  
S1  
T1  
U1  
V1

M929  
B07

A2  
B2  
C2  
D2  
E2  
F2  
H2  
J2  
K2  
L2  
M2  
N2  
P2  
R2  
S2  
T2  
U2  
V2

C RDS L  
C SWDN L  
C TUR L  
  
C RD 0 L  
C RD 1 L  
C RD 2 L  
C RD 3 L  
C RD 4 L  
C RD 5 L  
C RD 6 L  
C RD 7 L  
C RDP L  
C FMK L

MASTER/INTERFACE CABLE  
(DOUBLE HEIGHT MODULE)

C WRS L  
C CRCS L  
C RWS L

C BOT L  
C WRL L  
C VPE L  
C SELR L  
C 7CH L  
C EOT L  
C CRCE L  
C LRCE L  
C LRCS L

M929  
A07

A1  
B1  
C1  
D1  
E1  
F1  
H1  
J1  
K1  
L1  
M1  
N1  
P1  
R1  
S1  
T1  
U1  
V1

M929  
A07

A2  
B2  
C2  
D2  
E2  
F2  
H2  
J2  
K2  
L2  
M2  
N2  
P2  
R2  
S2  
T2  
U2  
V2

C SEL 0 H  
C SEL 1 H  
C SEL 2 H  
  
C DEN 8 H  
C DEN 5 H  
  
C WEXG H  
C FOR H  
C REW H  
C WRE H

C WD 0 H  
C WD 1 H  
C WD 2 H  
C WD 3 H  
C WD 4 H  
C WD 5 H  
C WD 6 H  
C WD 7 H  
C REV H  
C INITH  
C SETH  
C WDR H  
C PEVN H  
C WFMK H

M100, A15  
SLAVE/MASTER  
BUS DRIVER

TU07 BTUR H AI  
TU08 BRDP H DI  
TU08 BRD0 H FI  
TU08 BRD1 H JI  
TU08 BRD2 H LI  
TU08 BRD3 H NI  
TU08 BRD4 H RI  
TU08 BRD5 H VI  
TU08 BRD6 H E2  
TU08 BRD7 H H2  
TU07 B7CH H K2  
TU07 BC556 H M2  
TU07 BC800 H P2  
TU07 BSKEW H S2  
TU07 BSDWNH U2

BI  
EI  
HI  
KI  
MI  
PI  
SI  
UI  
FI  
J2  
L2  
N2  
R2  
T2  
V2

RTUR L  
RRDP L  
RRD0 L  
RRD1 L  
RRD2 L  
RRD3 L  
RRD4 L  
RRD5 L  
RRD6 L  
RRD7 L  
R7CH L  
RC566 L  
RC800 L  
RSD0 L  
RSDWN L

| TRUTH TABLE |     |
|-------------|-----|
| IN          | OUT |
| GND         | GND |
| +3V         | +3V |

|                               |                                 |                                                         |          |           |
|-------------------------------|---------------------------------|---------------------------------------------------------|----------|-----------|
| FIRST USED ON OPT/MOD<br>TUI0 | QTY.                            | DESCRIPTION                                             | PART NO. | ITEM NO.  |
| UNLESS OTHERWISE SPECIFIED    |                                 |                                                         |          |           |
| CHK'D<br>A. Raymond           | DATE<br>4-5-71                  | digital EQUIPMENT CORPORATION<br>MAYNARD, MASSACHUSETTS |          |           |
| ENG'D<br>J. Baldone           | DATE<br>4-26-71                 | TITLE<br>MASTER BUS DRIVERS & INTERCONN                 |          |           |
| PROD.<br>C. L. Ross           | DATE<br>5-7-71                  | TU-12                                                   |          |           |
| MATERIAL<br>+ +               | NEXT HIGHER ASSY<br>A-ML-TUI0-0 | SIZE CODE<br>DBS TUI0-0-12                              | NUMBER   | REV.<br>A |
| FINISH<br>+ +                 | SCALE<br>SHEET 1 OF 2           | DIST.                                                   |          |           |

| REVISIONS | CHANGE NO. | REV. |
|-----------|------------|------|
| CHK       | TUI0-00050 | A    |
| SM-Garner | 9-9-71     |      |
| J-HESS    | 9-14-71    |      |

DEC FORM NO  
DRD 102A

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21-0-010101 2

D

C

B

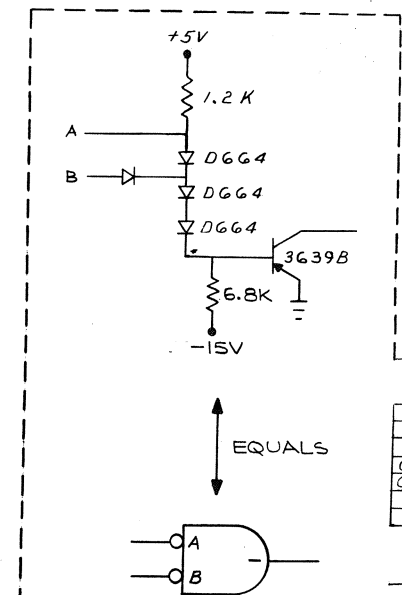
A

D

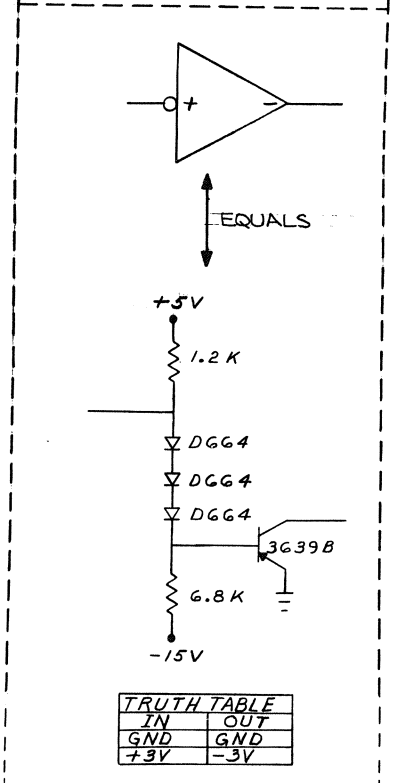
C

B

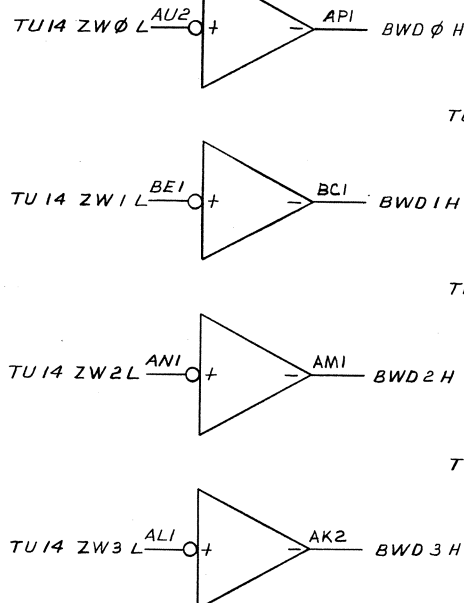
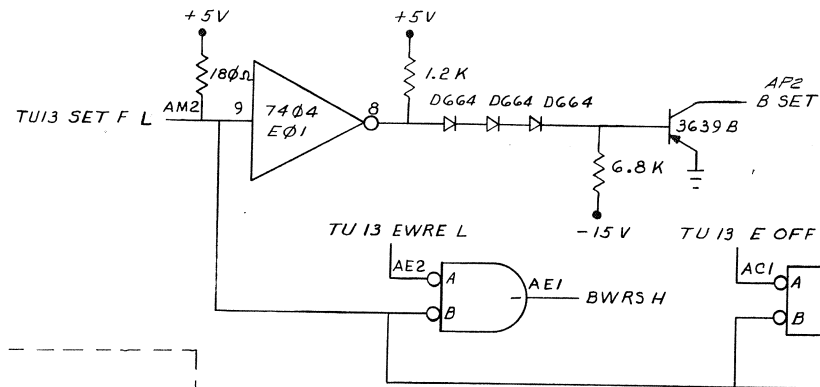
A



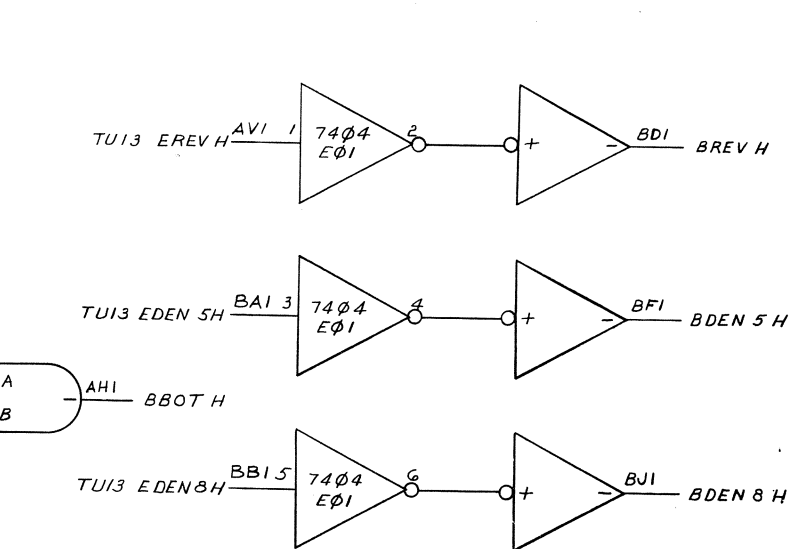
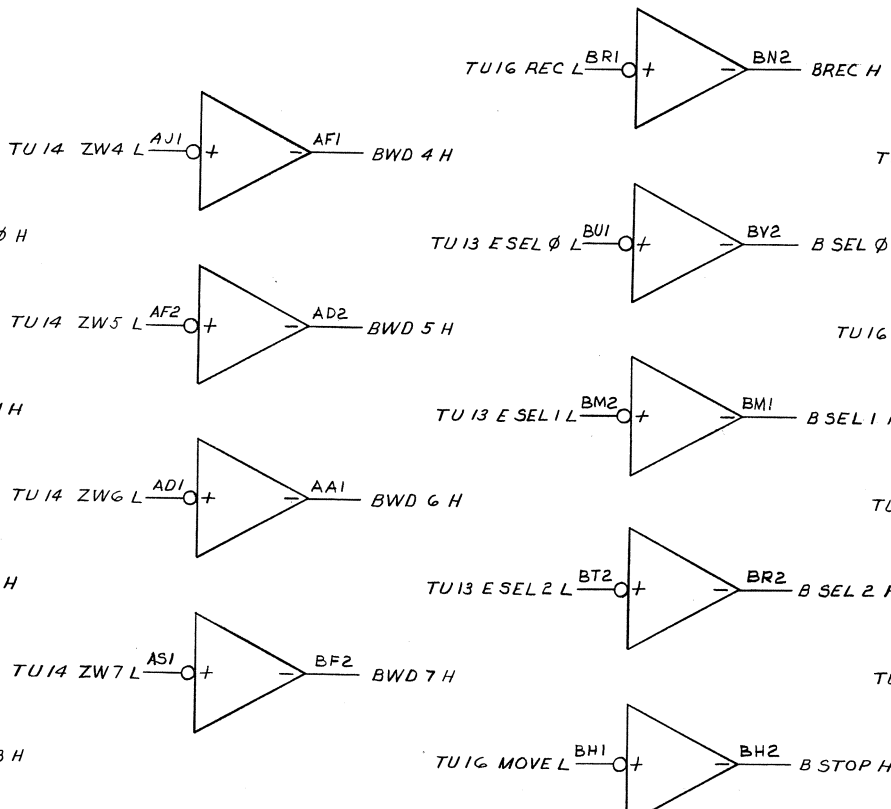
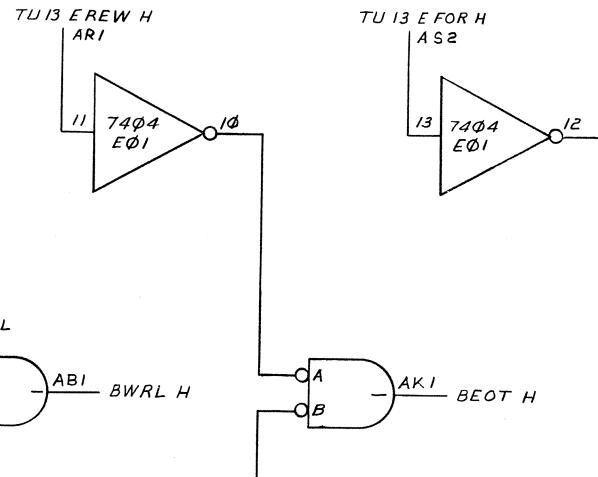
| TRUTH TABLE |     |     |
|-------------|-----|-----|
| IN          | B   | OUT |
| GND         | GND | GND |
| GND         | +3V | -3V |
| +3V         | GND | -3V |
| +3V         | +3V | -3V |



| TRUTH TABLE |     |
|-------------|-----|
| IN          | OUT |
| GND         | GND |
| +3V         | -3V |



| TRUTH TABLE |     |
|-------------|-----|
| IN          | OUT |
| GND         | GND |
| +3V         | -3V |



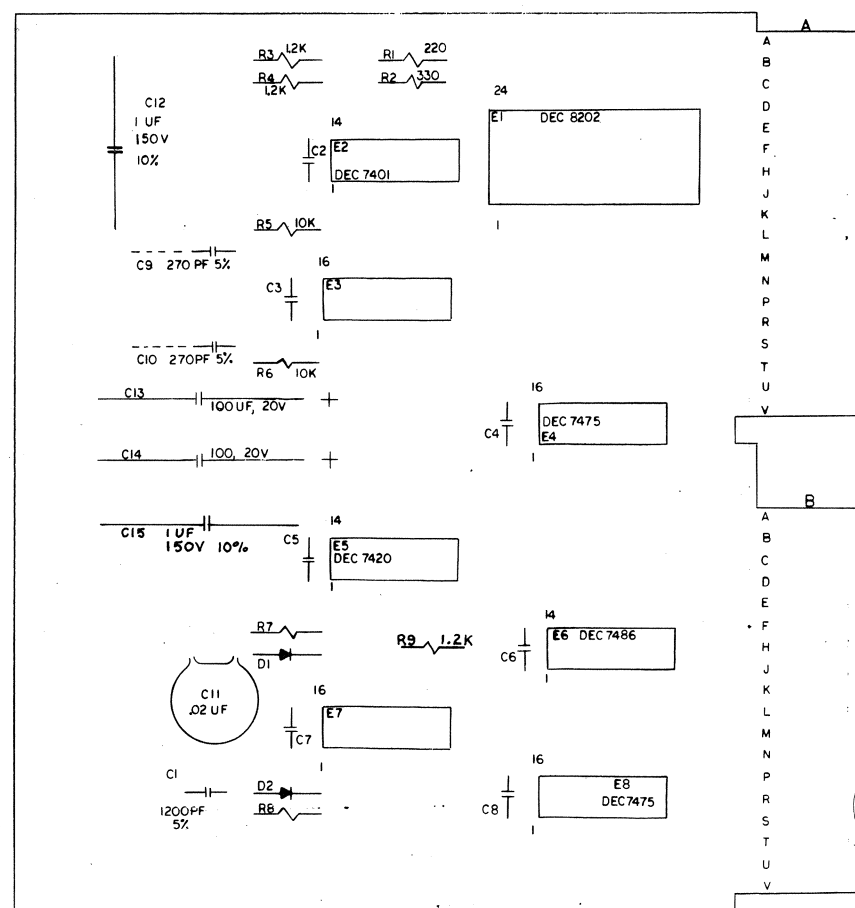
NOTES:  
1. UNLESS OTHERWISE SPECIFIED  
ALL GATES ARE M7671 AND  
LOCATED IN SLOT AB14.

|                                                               |                           |                                 |                                                        |          |
|---------------------------------------------------------------|---------------------------|---------------------------------|--------------------------------------------------------|----------|
| FIRST USED ON OPT/MOD<br>TUI0                                 | QTY.                      | DESCRIPTION                     | PART NO.                                               | ITEM NO. |
| UNLESS OTHERWISE SPECIFIED                                    | DRN<br>1/1/71             | DATE<br>4-1-71                  | PARTS LIST                                             |          |
| UNLESS OTHERWISE SPECIFIED                                    | CHK'D<br>A. Boudreau      | DATE<br>4-6-71                  | digital EQUIPMENT CORPORATION<br>NATNARD MASSACHUSETTS |          |
| TOLERANCES                                                    | ENG.<br>John R. 7/71      | DATE<br>4-26-71                 | TITLE<br>MASTER BUS<br>DRIVERS & INTERCONN             |          |
| DECIMALS FRACTIONS ANGLES                                     | PROD. ENG.<br>H. Boudreau | DATE<br>4/19/71                 | TU-12                                                  |          |
| ± .005 ± 1/64 ± 0°30'                                         | PROD.<br>G. L. 7/71       | DATE<br>5-7-71                  | REV. A                                                 |          |
| FINAL SURFACE QUALITY<br>REMOVE BURRS AND BREAK SHARP CORNERS | MATERIAL<br>+ + +         | NEXT HIGHER ASSY<br>A-ML-TUI0-0 | SIZE CODE<br>DBS TUI0-0-12                             |          |
|                                                               | FINISH<br>+ + +           | SCALE<br>2 OF 2                 | DIST.                                                  |          |

DEC FORM NO  
DRD 102A

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SIZE CODE NUMBER  
D CS M7672-0-1  
A



| QTY. | REF DESIGNATION | DESCRIPTION                  | DEC PART NO.   | QTY.     |
|------|-----------------|------------------------------|----------------|----------|
| 2    |                 | HANDLE, FLIP CHIP - MAGENTA  | 9008337-06     | 25       |
| 4    |                 | WIRELET, HANDLE              | 9006732        | 24       |
| 1    | E1              | I.C. DEC 8202                | 1910275        | 23       |
| 2    | E3, 7           | I.C. DEC 74123               | 1910436        | 22       |
| 1    | E6              | I.C. DEC 7486                | 1910011        | 21       |
| 2    | E4, 8           | I.C. DEC 7475                | 1909050        | 20       |
| 1    | E2              | I.C. DEC 7401                | 1905590        | 19       |
| 1    | E5              | I.C. DEC 7420                | 1905577        | 18       |
| 2    | R7, 8           | RES. 8.2K 1/4W 5%            | 1303179        | 17       |
| 3    | R3, 4, 9        | RES. 1.2K 1/4W 5%            | 1301320        | 16       |
| 2    | R5, 6           | RES. 10K 1/4W 5%             | 1300479        | 15       |
| 1    | R2              | RES. 330 1/4W 5%             | 1300295        | 14       |
| 1    | R1              | RES. 220 1/4W 5%             | 1300271        | 13       |
|      |                 | GRIPLET                      | 1210244-0      | 12       |
| 2    | D1, 2           | DIODE D664                   | 1100114        | 11       |
| 2    | C12, 15         | CAP. 1UF 150V 10% FOIL       | 1000063        | 10       |
| 1    | C1              | CAP. 1200PF 100V 5% D.M.     | 1002619        | 9        |
| 7    | C2 - C8         | CAP. .01UF 100V 20% DISC     | 1001610        | 8        |
| 2    | C9, 10          | CAP. 270 100V 5% D.M.        | 1009022        | 7        |
| 1    | C11             | CAP. .02UF 100V -0 +20% DISC | 1000004        | 6        |
| 2    | C13, 14         | CAP. 100UF 20V 10% TANT      | 1004815        | 5        |
| 1    |                 | ETCHED CIRCUIT BOARD         | 5009577        | 4        |
|      |                 | MODULE ECO HISTORY           | B-MH-M7672-0-6 | 3        |
|      |                 | ASSY/DRILLING BOARD LAYOUT   | D-AH-M7672-0-5 | 2        |
|      |                 | X-Y COORDINATE HOLE LOCATION | K-CO-M7672-0-4 | 1        |
|      |                 | DESCRIPTION                  | DEC PART NO.   | ITEM NO. |
|      |                 | PARTS LIST                   |                |          |

SHEET 1 OF 2

| REVISIONS | DATE     | BY | APP |
|-----------|----------|----|-----|
| 1         | 10/01/89 | A  |     |

DATE 2/19/91  
BY [Signature]  
APP [Signature]  
DATE 5-1-91  
BY [Signature]  
APP [Signature]

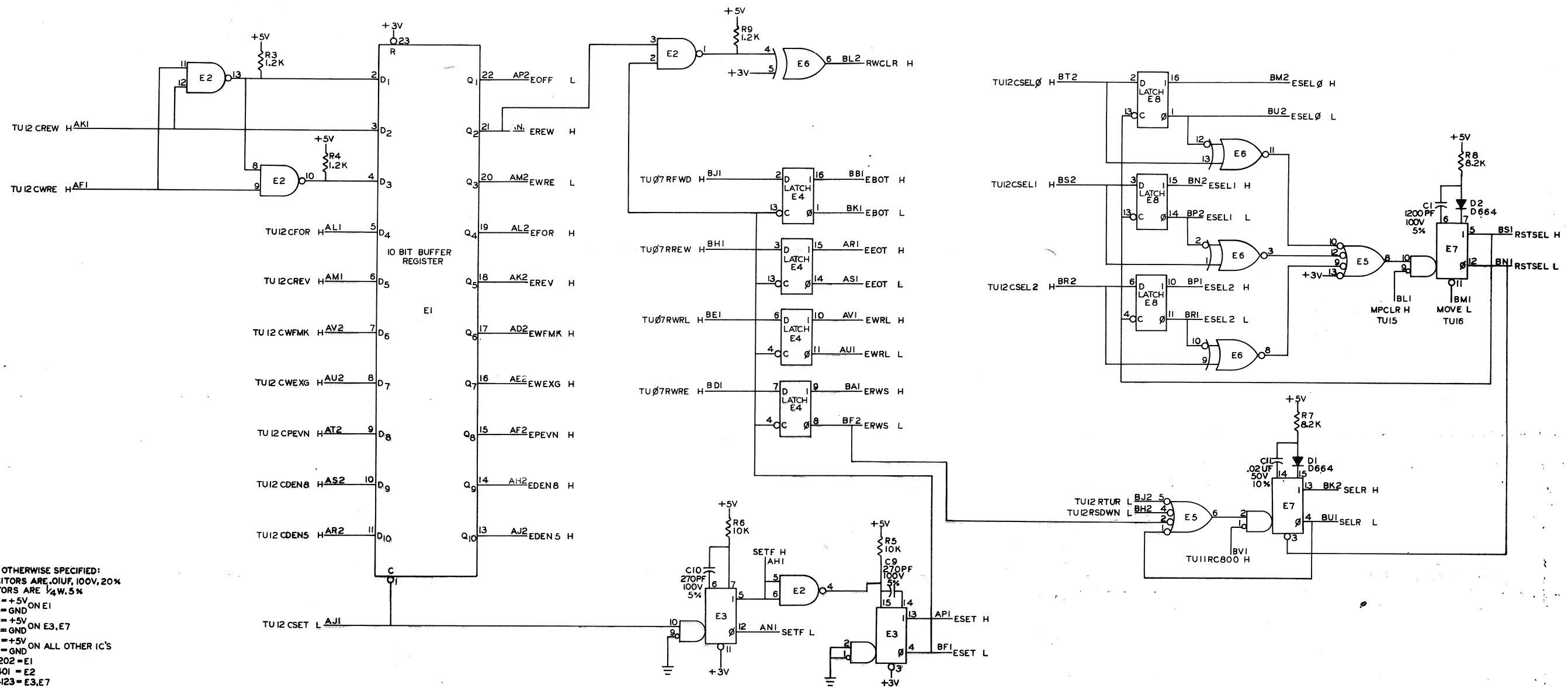
| TRANSISTOR & DIODE CONVERSION CHART | DEC | EIA | DEC | EIA |
|-------------------------------------|-----|-----|-----|-----|
|                                     |     |     |     |     |
|                                     |     |     |     |     |
|                                     |     |     |     |     |
|                                     |     |     |     |     |

**digital**  
EQUIPMENT CORPORATION  
MAYNARD, MASSACHUSETTS

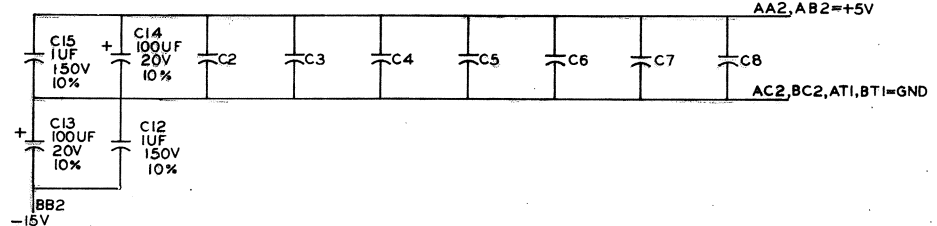
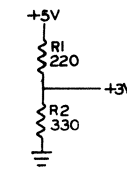
TITLE: TU 10 COMMAND BUFFERS TU13  
SIZE CODE: D CS  
NUMBER: M7672-0-1  
REV: A  
PRINTED CIRCUIT REV: B

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V 1-0-2/6LW M 3001 3215



UNLESS OTHERWISE SPECIFIED:  
CAPACITORS ARE .01UF, 100V, 20%  
RESISTORS ARE 1/4W, 5%  
PIN 24 = +5V ON E1  
PIN 12 = GND  
PIN 16 = +5V ON E3, E7  
PIN 8 = GND  
PIN 14 = +5V ON ALL OTHER IC'S  
PIN 7 = GND  
DEC 8202 = E1  
DEC 7401 = E2  
DEC 74123 = E3, E7  
DEC 7475 = E4, E8  
DEC 7420 = E5  
DEC 7486 = E6  
PIN 12 = GND ON E4, E8  
PIN 5 = +5V



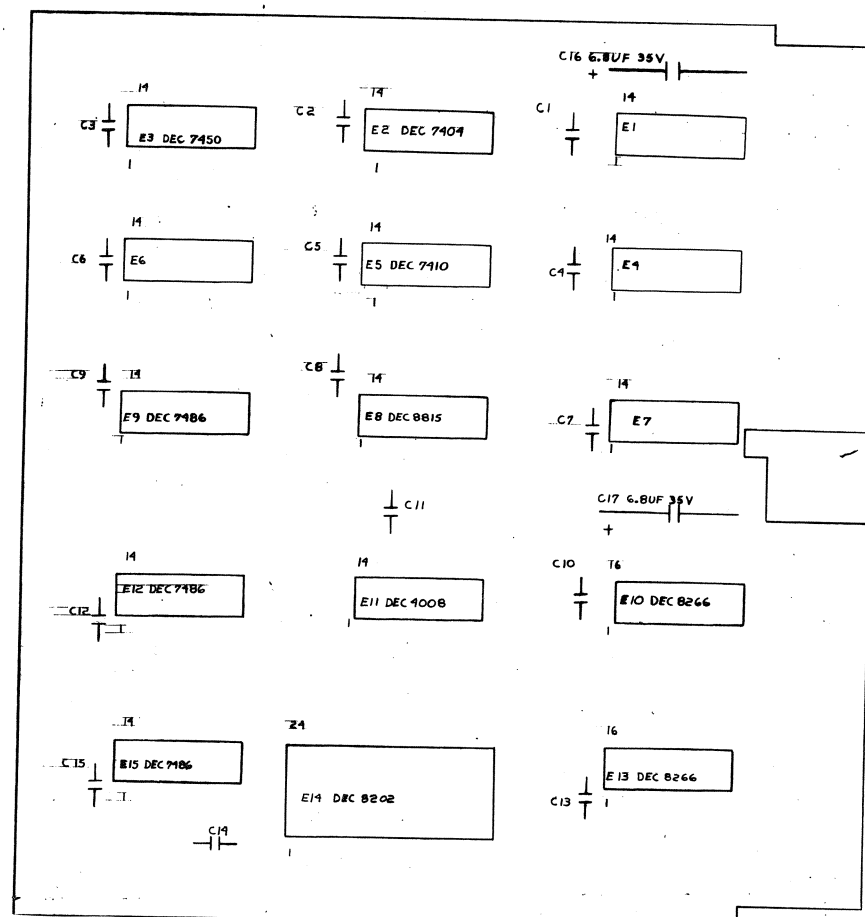
SHEET 2 OF 2

|           |         |                                     |               |
|-----------|---------|-------------------------------------|---------------|
| REVISIONS | DATE    | TRANSISTOR & DIODE CONVERSION CHART | TITLE         |
| 1         | 2-19-71 | DEC EIA DEC EIA                     | TU 10 COMMAND |
| 2         | 5-1-71  | D664 1N3606                         | BUFFERS TU13  |
| 3         | 11-1-71 |                                     |               |
| 4         | 11-1-71 |                                     |               |
| 5         | 11-1-71 |                                     |               |
| 6         | 11-1-71 |                                     |               |
| 7         | 11-1-71 |                                     |               |
| 8         | 11-1-71 |                                     |               |
| 9         | 11-1-71 |                                     |               |
| 10        | 11-1-71 |                                     |               |
| 11        | 11-1-71 |                                     |               |
| 12        | 11-1-71 |                                     |               |
| 13        | 11-1-71 |                                     |               |
| 14        | 11-1-71 |                                     |               |
| 15        | 11-1-71 |                                     |               |
| 16        | 11-1-71 |                                     |               |
| 17        | 11-1-71 |                                     |               |
| 18        | 11-1-71 |                                     |               |
| 19        | 11-1-71 |                                     |               |
| 20        | 11-1-71 |                                     |               |
| 21        | 11-1-71 |                                     |               |
| 22        | 11-1-71 |                                     |               |
| 23        | 11-1-71 |                                     |               |
| 24        | 11-1-71 |                                     |               |
| 25        | 11-1-71 |                                     |               |
| 26        | 11-1-71 |                                     |               |
| 27        | 11-1-71 |                                     |               |
| 28        | 11-1-71 |                                     |               |
| 29        | 11-1-71 |                                     |               |
| 30        | 11-1-71 |                                     |               |

DRN R.J. DOUCETTE  
DATE 2-19-71  
EIA  
D664 1N3606  
EQUIPMENT CORPORATION  
MAYNARD, MASSACHUSETTS  
PRINTED CIRCUIT REV. 8



|     |   |        |       |    |   |
|-----|---|--------|-------|----|---|
| REV | C | NUMBER | 1-0-1 | CS | D |
|-----|---|--------|-------|----|---|



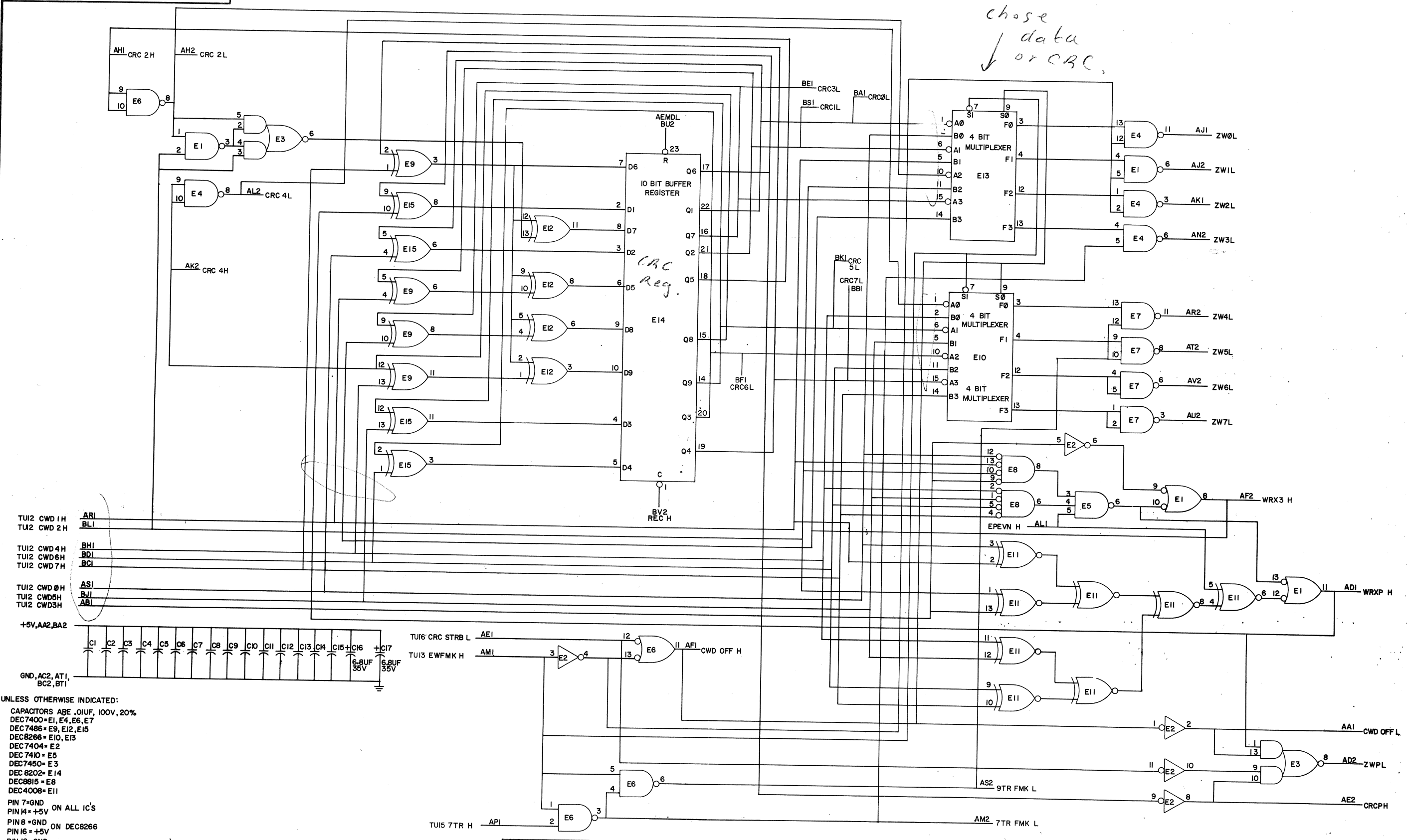
| A/S  |                 | GRIPLET                      | 1210244-0     | 18       |
|------|-----------------|------------------------------|---------------|----------|
| 4    |                 | HANDLE, EYELET               | 9006732       | 17       |
| 2    |                 | HANDLE, FLIP CHIP - MAGENTA  | 9008337-06    | 16       |
| 1    | E14             | I.C. DEC 8202                | 1910275       | 15       |
| 1    | E11             | I.C. DEC 4008                | 1910270       | 14       |
| 3    | E12, 15, 9      | I.C. DEC 7486                | 1910011       | 13       |
| 2    | E10, 13         | I.C. DEC 8266                | 1909934       | 12       |
| 1    | E8              | I.C. DEC 8815                | 1909713       | 11       |
| 1    | E2              | I.C. DEC 7404                | 1909686       | 10       |
| 1    | E3              | I.C. DEC 7450                | 1905560       | 9        |
| 1    | E5              | I.C. DEC 7410                | 1905576       | 8        |
| 4    | E1, 4, 6, 7     | I.C. DEC 7400                | 1905575       | 7        |
| 15   | C1 - 15         | CAP. .01UF 100V 20%          | 1001610       | 6        |
| 2    | C16, 17         | CAP. 6.8UF 35V 20%           | 1000067       | 5        |
| 1    |                 | ETCHED CIRCUIT BOARD         | 500 9536      | 4        |
|      |                 | ECO MODULE HISTORY           | B-MH-MB91-0-6 | 3        |
|      |                 | ASSY/DRILLING HOLE LAYOUT    | D-AH-MB91-0-5 | 2        |
|      |                 | X-Y COORDINATE HOLE LOCATION | K-CO-MB91-0-4 | 1        |
| QTY. | REF DESIGNATION | DESCRIPTION                  | DEC PART NO.  | ITEM NO. |
|      |                 | PARTS LIST                   |               |          |

|                  |               |                                     |     |     |     |                                                                                                                                                                             |                       |          |                  |        |
|------------------|---------------|-------------------------------------|-----|-----|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------|------------------|--------|
| DRN: 3, Dwyer    | DATE: 4/4/71  | TRANSISTOR & DIODE CONVERSION CHART |     |     |     | <br><b>digital</b><br><b>EQUIPMENT</b><br><b>CORPORATION</b><br>MAYNARD, MASSACHUSETTS | TITLE: CRC            |          |                  |        |
| CHKD: C. N. S.   | DATE: 5/14/71 | DEC                                 | EIA | DEC | EIA |                                                                                                                                                                             | AND WRITE GATING TU14 |          |                  |        |
| ENG: [Signature] | DATE: 5/23/71 |                                     |     |     |     |                                                                                                                                                                             | SIZE: D               | CODE: CS | NUMBER: M891-0-1 | REV: C |
| PRD: [Signature] | DATE: 7/25/71 |                                     |     |     |     |                                                                                                                                                                             | PRINTED CIRCUIT REV   |          |                  |        |

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C 1-0-168W SC D  
A3H NUMBER 3003 1/15

chose  
data  
or CRC

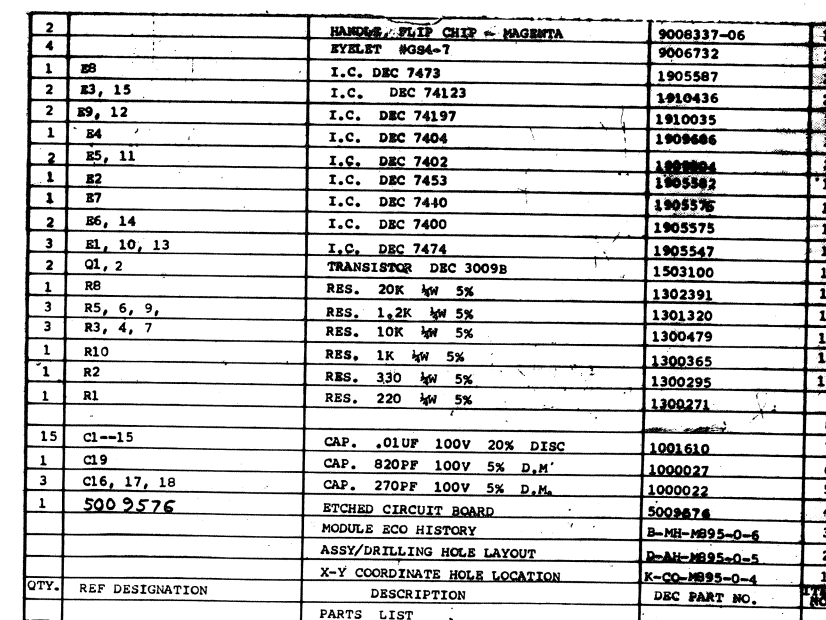


UNLESS OTHERWISE INDICATED:  
CAPACITORS ARE .01UF, 100V, 20%  
DEC7400 = E1, E4, E6, E7  
DEC7486 = E9, E12, E15  
DEC8266 = E10, E13  
DEC7404 = E2  
DEC7410 = E5  
DEC7450 = E3  
DEC8202 = E14  
DEC8815 = E8  
DEC4008 = E11  
PIN 7 = GND  
PIN 14 = +5V ON ALL IC'S  
PIN 8 = GND  
PIN 16 = +5V ON DEC8266  
PIN 12 = GND  
PIN 24 = +5V ON DEC8202

| REV | DATE   | BY | CHK |
|-----|--------|----|-----|
| 1   | 5/2/71 | CS | CS  |
| 2   | 5/2/71 | CS | CS  |
| 3   | 5/2/71 | CS | CS  |
| 4   | 5/2/71 | CS | CS  |
| 5   | 5/2/71 | CS | CS  |

|                   |      |              |      |                                                 |     |                                  |     |
|-------------------|------|--------------|------|-------------------------------------------------|-----|----------------------------------|-----|
| DGN: <i>Costa</i> |      | DATE: 5/2/71 |      | TRANSISTOR & DIODE CONVERSION CHART             |     | TITLE: CRC AND WRITE GATING TU14 |     |
| DEC               | EIA  | DEC          | EIA  | DEC                                             | EIA | DEC                              | EIA |
|                   |      |              |      |                                                 |     |                                  |     |
|                   |      |              |      | EQUIPMENT CORPORATION<br>MAYNARD, MASSACHUSETTS |     |                                  |     |
| SIZE              | CODE | NUMBER       | REV. | PRINTED CIRCUIT REV.                            |     |                                  |     |
| D                 | CS   | M891-0-1     | C    | D                                               |     |                                  |     |

|     |         |    |
|-----|---------|----|
| REV | NUMBER  | CS |
| 1   | 1-0-0-1 | 0  |



| REVIEWS | CHRG | CHG NO | REV |
|---------|------|--------|-----|
|         | 1    | 00001  | C   |
|         | 2    | 00001  | C   |
|         | 3    | 00001  | C   |
|         | 4    | 00001  | C   |
|         | 5    | 00001  | C   |
|         | 6    | 00001  | C   |
|         | 7    | 00001  | C   |
|         | 8    | 00001  | C   |
|         | 9    | 00001  | C   |
|         | 10   | 00001  | C   |
|         | 11   | 00001  | C   |
|         | 12   | 00001  | C   |
|         | 13   | 00001  | C   |
|         | 14   | 00001  | C   |
|         | 15   | 00001  | C   |
|         | 16   | 00001  | C   |
|         | 17   | 00001  | C   |
|         | 18   | 00001  | C   |
|         | 19   | 00001  | C   |
|         | 20   | 00001  | C   |
|         | 21   | 00001  | C   |
|         | 22   | 00001  | C   |
|         | 23   | 00001  | C   |
|         | 24   | 00001  | C   |
|         | 25   | 00001  | C   |
|         | 26   | 00001  | C   |
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|         | 100  | 00001  | C   |

|       |                    |      |         |
|-------|--------------------|------|---------|
| DRN   | SCOOPER            | DATE | 2-19-71 |
| CHK'D | <i>[Signature]</i> | DATE | 4-16-71 |
| ENG.  | <i>[Signature]</i> | DATE | 5-1-71  |
| MOD.  | <i>[Signature]</i> | DATE | 7-2-71  |

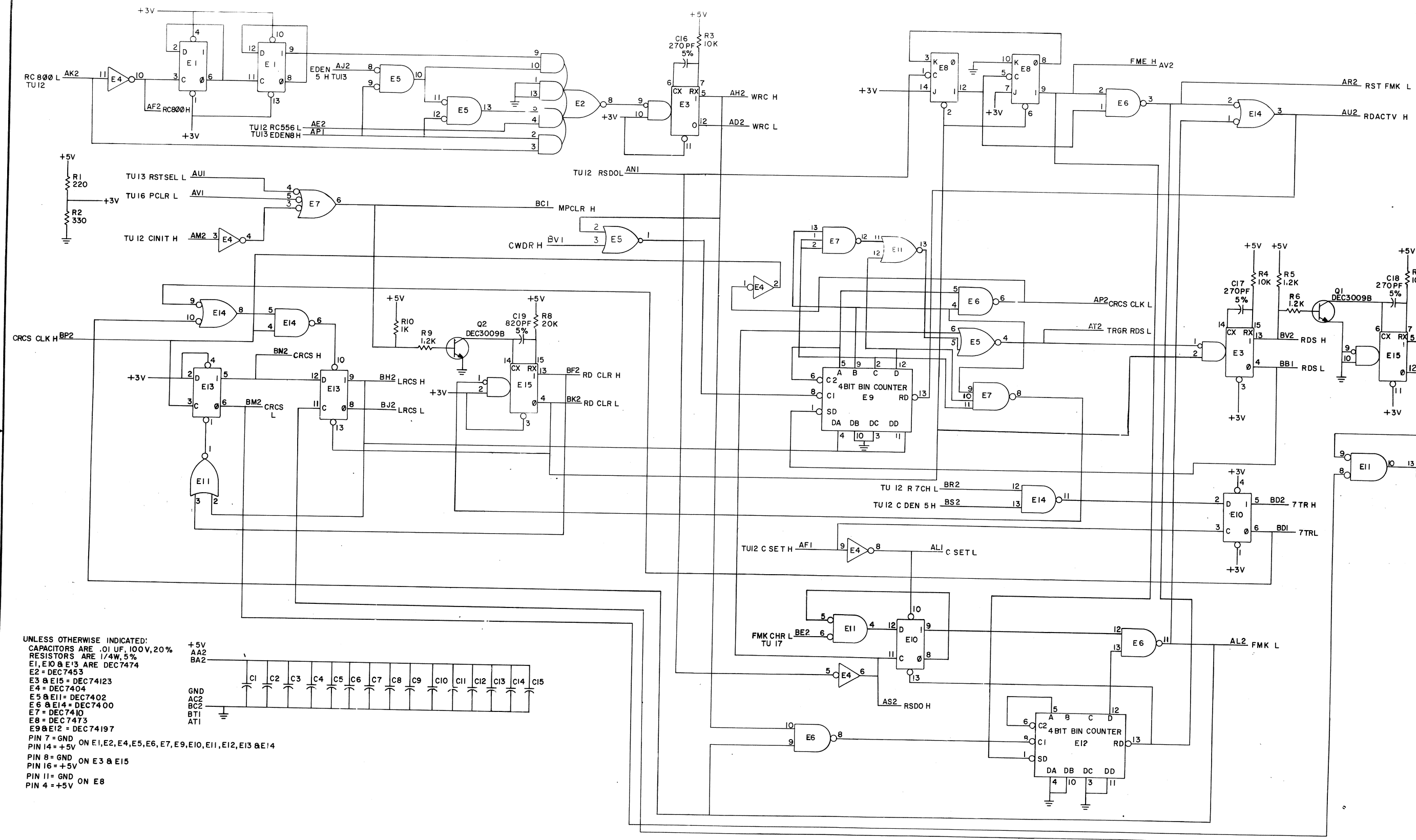
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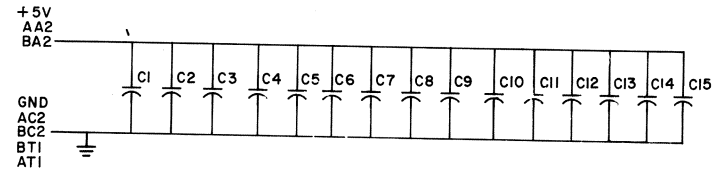
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| SHEET 1 OF 2      |            |                    |           |
| TITLE             |            |                    |           |
| READ TIMING TU 15 |            |                    |           |
| SIZE<br>D         | CODE<br>CS | NUMBER<br>M895-0-1 | REV.<br>J |

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D-568W 130 0



UNLESS OTHERWISE INDICATED:  
CAPACITORS ARE .01 UF, 100V, 20%  
RESISTORS ARE 1/4W, 5%  
E1, E10 & E13 ARE DEC7474  
E2 = DEC7453  
E3 & E15 = DEC74123  
E4 = DEC7404  
E5 & E11 = DEC7402  
E6 & E14 = DEC7400  
E7 = DEC7410  
E8 = DEC7473  
E9 & E12 = DEC74197  
PIN 7 = GND ON E1, E2, E4, E5, E6, E7, E9, E10, E11, E12, E13 & E14  
PIN 14 = +5V  
PIN 8 = GND ON E3 & E15  
PIN 16 = +5V  
PIN 11 = GND  
PIN 4 = +5V ON E8



REVISIONS  
CHK CHG NO REV

DRN  
S. Cooper  
DATE  
2-19-71  
CHKD  
J. H. H. H.  
DATE  
5-1-71  
ENG  
J. H. H. H.  
DATE  
5-1-71  
PROD  
J. H. H. H.

| TRANSISTOR & DIODE CONVERSION CHART |     |     |     |
|-------------------------------------|-----|-----|-----|
| DEC                                 | EIA | DEC | EIA |
| DEC7009B                            | NON |     |     |

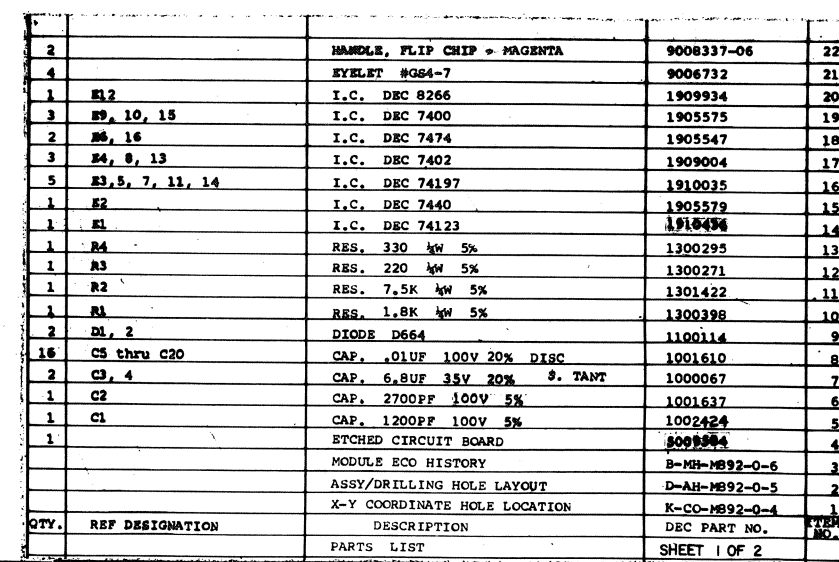
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EQUIPMENT  
CORPORATION  
MAYNARD, MASSACHUSETTS

SHEET 2 OF 2

TITLE  
READ TIMING TU15

SIZE D CODE CS NUMBER M895-0-1 REV J

|       |              |    |   |
|-------|--------------|----|---|
| REV E | NUMBER 1-0-1 | CS | D |
|-------|--------------|----|---|



|                   |         |
|-------------------|---------|
| DRM.              | DATE    |
| NANCY MOORE       | 2-23-71 |
| CHK'D             | DATE    |
| Ordinary          | 4/28/71 |
| ENG.              | DATE    |
| H. J. Mc. Donnell | 5-1-71  |
| PROD              | DATE    |
| H. Schuman        | 7/1/71  |

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CORPORATION  
MAYNARD, MASSACHUSETTS

|       |      |                                 |  |  |      |
|-------|------|---------------------------------|--|--|------|
| TITLE |      | TU10 WRITE & GAP<br>TIMING TU16 |  |  |      |
| SIZE  | CODE | NUMBER                          |  |  | REV. |
| D     | CS   | M892-0-I                        |  |  | E    |

100-365400-100

DEC FORM NO  
DRD 116SHEET 2 OF 2

TITLE TUIO WRITE & GAP  
TIMING TUI6

digital

EQUIPMENT

CORPORATION

DAVIDSON, MARGARET E

| SIZE | CODE | NUMBER |
|------|------|--------|
|------|------|--------|

|   |    |          |
|---|----|----------|
| D | CS | M892-0-1 |
|---|----|----------|

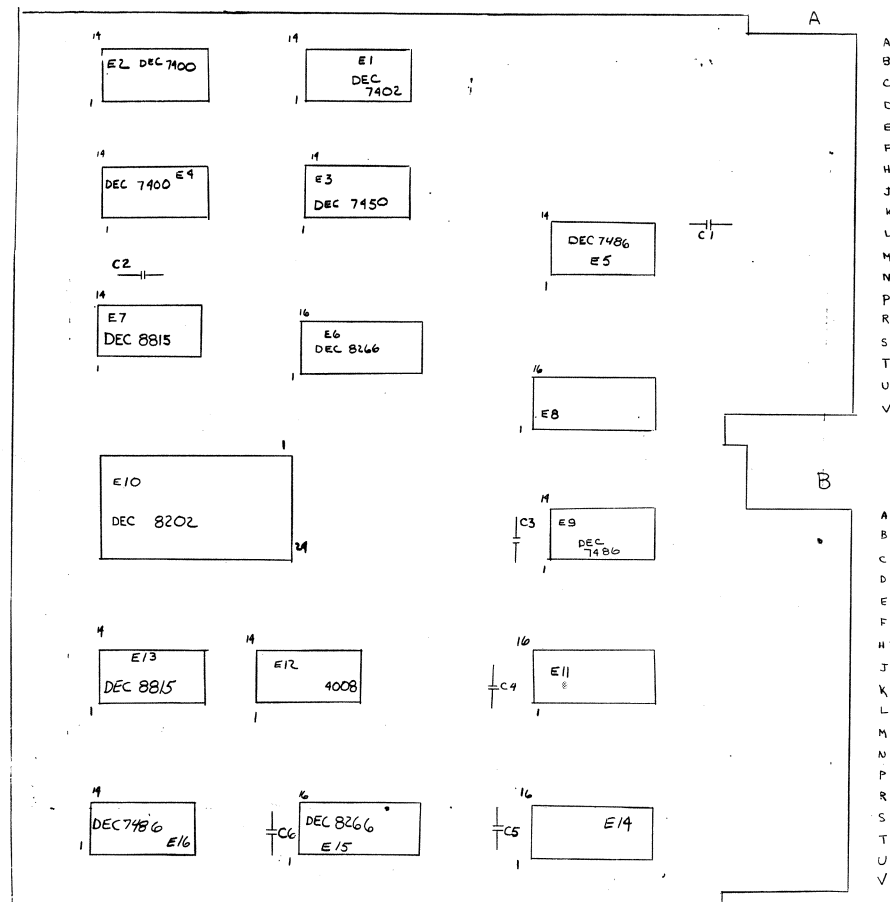
PRINTED CIRCUIT REV. E

[illegible]



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W 1-0-0-1 M 7673-0-1 D CS 3000 12/15



|      |                 |                              |                |      |
|------|-----------------|------------------------------|----------------|------|
| 2    |                 | HANDLE, FLIP CHIP - MAGNETA  | 9006337-06     | 16   |
| 4    |                 | EYELST #G94-7                | 9006732        | 15   |
| 3    | E5, 9, 16       | I.C. DEC 7486                | 1910011        | 14   |
| 1    | E10             | I.C. DEC 8202                | 1910275        | 13   |
| 1    | E12             | I.C. DEC 4008P               | 1910270        | 12   |
| 2    | E6, 15          | I.C. DEC 8266                | 1909934        | 11   |
| 2    | E7, 13          | I.C. DEC 8815                | 1909713        | 10   |
| 3    | E8, 11, 14      | I.C. DEC 7475                | 1909050        | 9    |
| 1    | E1              | I.C. DEC 7402                | 1909004        | 8    |
| 1    | E3              | I.C. DEC 7450                | 1905580        | 7    |
| 2    | E2, 4           | I.C. DEC 7400                | 1905575        | 6    |
| 6    | C1 - C6         | CAP. .01UF 100V 20% DISC     | 1001610        | 5    |
| 1    |                 | ETCHED CIRCUIT BOARD         | 5009569        | 4    |
|      |                 | MODULE ECO HISTORY           | B-MH-M7673-0-6 | 3    |
|      |                 | ASSY/DRILLING HOLE LAYOUT    | D-AH-M7673-0-5 | 2    |
|      |                 | X-Y COORDINATE HOLE LOCATION | K-CO-M7673-0-4 | 1    |
| QTY. | REF DESIGNATION | DESCRIPTION                  | DEC PART NO.   | REV. |
|      |                 | PARTS LIST                   |                |      |

REVISIONS  
CHK (CIR NO) REV

DATE 11/1/71  
DATE 11/2/71  
DATE 11/2/71  
DATE 11/2/71  
DATE 11/2/71  
DATE 11/2/71

TRANSISTOR & DIODE CONVERSION CHART  
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MAYNARD, MASSACHUSETTS

TU 10 DATA  
CHECKER TU17  
SIZE CODE NUMBER  
D CS M 7673-0-1  
PRINTED CIRCUIT REV. B

DEC FORM NO.  
DRD 115

DIST. 32-4434-435

REV A  
NUMBER M7673-0-1  
D CS

|      |   |    |        |           |     |   |
|------|---|----|--------|-----------|-----|---|
| size | D | CS | NUMBER | M7673-0-1 | REV | A |
|------|---|----|--------|-----------|-----|---|



|           |      |    |           |
|-----------|------|----|-----------|
| REVISIONS | DATE | BY | REVISIONS |
|-----------|------|----|-----------|

|       |      |
|-------|------|
| DRN.  | DATE |
| CH'D  | DATE |
| ENG.  | DATE |
| PROD. | DATE |

[illegible]

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EQUIPMENT  
CORPORATION  
MAYNARD, MASSACHUSETTS

|         |                                  |
|---------|----------------------------------|
| digital | TITLE TU-10 DATA<br>CHECKER TU17 |
|---------|----------------------------------|

|                                                    |      |      |          |
|----------------------------------------------------|------|------|----------|
| EQUIPMENT<br>CORPORATION<br>MAYNARD, MASSACHUSETTS | SIZE | CODE | NUMBER   |
|                                                    | D    | CS   | M7673-0- |

|     |  |
|-----|--|
| REV |  |
| A   |  |



DIGITAL EQUIPMENT CORPORATION  
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY R.J. EMMA  
DATE 2/18/71  
ENG John R. Hens  
DATE 4-26-71  
CHECKED [Signature]  
DATE 4-15-71  
PROD 3 E Ciors  
DATE 5-7-71  
SECTION 1  
ISSUED SECT. 1

| ITEM NO. | DWG NO. / PART NO. | DESCRIPTION                    |
|----------|--------------------|--------------------------------|
|          | G050               | DUAL GAP HEAD READ AMP         |
|          | G060               | MAG TAPE COMPRESSOR, 9 TRACK   |
|          | G062               | MAG TAPE PEAK DITECTOR, 9TRACK |
|          | G064               | MAG TAPE SLICER, 9TRACK        |
|          | G350               | MAG TAPE WRITE DRIVER          |
|          | G741               | NEG CLAMP LOAD                 |
|          | G932               | CAPSTAN SERVO PRE AMP          |
|          | G933               | REEL MOTOR AMP                 |
|          | M050               | INVERTER DRIVER                |
|          | M514               | TUL0 TRANSCIEIVER              |
|          | W726               | SWITCH FILTER                  |
|          | M763               | 9 TRACK WRITE BUFFER           |
|          | M765               | 9 TRACK READ BUFFER            |
|          | M767               | CLOCK & SKEW DELAY             |
|          | M768               | DELAY SELECTOR                 |
|          | M769               | FUNCTION CONTROL               |
|          | M890               | MOTION CONTROL                 |
|          | G9341              | BRAKE ACTUATOR                 |
|          | M7670              | FORWARD BOT TIMER              |
|          | G9340              | BRAKE LOGIC                    |
|          | M640               | BUS DRIVER                     |
|          | M891               | CRC AND WRITE GATING           |

TITLE

MODULE UTILIZATION (PL)

ASSY NO.  
D-MU-TUL0-0-18

SHEET 1 OF 2

SIZE CODE  
A PL

NUMBER  
TUL0-0-18

REV. ECO NO.  
A 10050

QUANTITY / VARIATION

DIGITAL EQUIPMENT CORPORATION  
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY R.J. EMMA  
DATE 2/18/71  
ENG John R. Hens  
DATE 4-26-71  
CHECKED [Signature]  
DATE 4-15-71  
PROD 3 E Ciors  
DATE 5-7-71  
SECTION 1  
ISSUED SECT. 1

| ITEM NO. | DWG NO. / PART NO. | DESCRIPTION             |
|----------|--------------------|-------------------------|
|          | M892               | WRITE AND GAP TIMING    |
|          | M7673              | DATA CHECKER            |
|          | M7672              | COMMAND BUFFER          |
|          | M895               | READ TIMING             |
|          | M7671              | BUS DRIVER              |
|          | M100               | BUS RECEIVER            |
|          | M958               | POSITIVE BUS TERMINATOR |
|          | G741YA             | NEG. CLAMP LOAD         |
|          | M896               | CRC CHECKER             |

TITLE

MODULE UTILIZATION (PL)

ASSY NO.  
D-MU-TUL0-0-18

SHEET 2 OF 2

SIZE CODE  
A PL

NUMBER  
TUL0-0-18

REV. ECO NO.  
A 10050

QUANTITY / VARIATION

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|   |   |                                                                                                                   |  |                   |  |                     |  |                             |  |                                                                                                                                                                                 |  |                                     |  |                              |  |                                   |  |                               |  |                 |  |                   |  |                               |  |                |  |                               |  |                           |  |                      |  |                                                                                                                                           |  |                                                                                       |  |                                                                                                                                                             |  |                                        |  |                          |  |                          |  |                                                                                                                                                           |  |                                                                                                                                                                                                                    |  |  |  |
|---|---|-------------------------------------------------------------------------------------------------------------------|--|-------------------|--|---------------------|--|-----------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------|--|------------------------------|--|-----------------------------------|--|-------------------------------|--|-----------------|--|-------------------|--|-------------------------------|--|----------------|--|-------------------------------|--|---------------------------|--|----------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------|--|--------------------------|--|--------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| D | A | 1                                                                                                                 |  | 2                 |  | 3                   |  | 4                           |  | 5                                                                                                                                                                               |  | 6                                   |  | 7                            |  | 8                                 |  | 9                             |  | 10              |  | 11                |  | 12                            |  | 13             |  | 14                            |  | 15                        |  | 16                   |  | 17                                                                                                                                        |  | 18                                                                                    |  | 19                                                                                                                                                          |  | 20                                     |  | 21                       |  | 22                       |  |                                                                                                                                                           |  |                                                                                                                                                                                                                    |  |  |  |
|   |   | G933                                                                                                              |  | G933              |  | G934                |  | G932                        |  | M908                                                                                                                                                                            |  | M958                                |  | M929                         |  | M640                              |  | M891                          |  | M7673           |  | M7672             |  | M892                          |  | M895           |  | M7671                         |  | M100                      |  | M7670                |  | M893                                                                                                                                      |  | M893                                                                                  |  | M893                                                                                                                                                        |  | M768                                   |  | M514                     |  | M822                     |  |                                                                                                                                                           |  |                                                                                                                                                                                                                    |  |  |  |
|   |   | REEL MOTOR<br>CKT                                                                                                 |  | REEL MOTOR<br>CKT |  |                     |  | CAPSTAN<br>SERVO<br>PRE AMP |  | RELAY<br>ENABLE<br>LOGIC<br>COMMON<br>PWR CON<br>UVSL<br>LVSL<br>LVSL<br>RELAY<br>COIL<br>LOGIC<br>COMMON<br>+12V<br>WRITE<br>SERVO<br>STROBE<br>POWER<br>COMMON<br>H11 VOLTAGE |  | **<br>POSITIVE<br>BUS<br>TERMINATOR |  | MASTER<br>INTERFACE<br>CABLE |  | MASTER<br>INTERFACE<br>BUS DRIVER |  | CRC<br>AND<br>WRITE<br>GATING |  | DATA<br>CHECKER |  | COMMAND<br>BUFFER |  | WRITE<br>AND<br>GAP<br>TIMING |  | READ<br>TIMING |  | MASTER<br>SLAVE<br>BUS DRIVER |  | SLAVE<br>MASTER<br>BUS RC |  | FORWARD BOT<br>TIMER |  | BOW 2<br>THRU<br>BOW 7<br>BWP<br>BOW 1<br>BOW 0<br>B REC<br>B SEL 0<br>B SEL 1<br>B SEL 2<br>B STOP<br>B ALFA<br>B LRCD<br>B EMD<br>B SET |  | BREC<br>B SEL 0<br>B SEL 1<br>B SEL 2<br>B STOP<br>B ALFA<br>B LRCD<br>B EMD<br>B SET |  | TU-08<br>BOW 2<br>THRU<br>TU-08<br>BOW 7<br>BWP<br>BOW 1<br>BOW 0<br>B REC<br>B SEL 0<br>B SEL 1<br>B SEL 2<br>B STOP<br>B ALFA<br>B LRCD<br>B EMD<br>B SET |  | BREV<br>B BOT<br>B EOT<br>BWRL<br>BRWS |  | B DEN<br>5<br>B DEN<br>8 |  | B DEN<br>5<br>B DEN<br>8 |  | OFF<br>LINE<br>BULB<br>M REW<br>M FWD<br>M REV<br>OFF<br>SW 1, 2<br>4<br>+5V<br>POWER<br>ON<br>BR BEL<br>+5V<br>BOT<br>EMITTER<br>LED C<br>EOT<br>EMITTER |  | +15V<br>LOGIC COMMON<br>STOP L<br>OFF LINE<br>START<br>ON LINE<br>REW BULB<br>FILE PROT BULB<br>END PT BULB<br>REV BULB<br>FWD BULB<br>LD PT BULB<br>READY BULB<br>WRITE BULB<br>SEL BULB<br>LOAD BULB<br>PWR BULB |  |  |  |
|   |   |                                                                                                                   |  |                   |  | BRAKE<br>ACTUATOR   |  |                             |  | BRAKE<br>LOGIC                                                                                                                                                                  |  |                                     |  |                              |  |                                   |  |                               |  |                 |  |                   |  |                               |  |                |  |                               |  |                           |  |                      |  |                                                                                                                                           |  |                                                                                       |  |                                                                                                                                                             |  | DELAY<br>TRANSMITTER                   |  | BUS<br>TRANSC            |  | M767                     |  |                                                                                                                                                           |  |                                                                                                                                                                                                                    |  |  |  |
| C | B |                                                                                                                   |  |                   |  |                     |  |                             |  |                                                                                                                                                                                 |  |                                     |  |                              |  |                                   |  |                               |  |                 |  |                   |  |                               |  |                |  |                               |  |                           |  |                      |  |                                                                                                                                           |  |                                                                                       |  |                                                                                                                                                             |  |                                        |  |                          |  |                          |  |                                                                                                                                                           |  |                                                                                                                                                                                                                    |  |  |  |
|   |   |                                                                                                                   |  |                   |  |                     |  |                             |  |                                                                                                                                                                                 |  |                                     |  |                              |  |                                   |  |                               |  |                 |  |                   |  |                               |  |                |  |                               |  |                           |  |                      |  |                                                                                                                                           |  |                                                                                       |  |                                                                                                                                                             |  |                                        |  |                          |  |                          |  |                                                                                                                                                           |  |                                                                                                                                                                                                                    |  |  |  |
|   |   | 23                                                                                                                |  | 24                |  | 25                  |  | 26                          |  | 27                                                                                                                                                                              |  | 28                                  |  | 29                           |  | 30                                |  | 31                            |  | 32              |  | 33                |  | 34                            |  | 35             |  | 36                            |  | 37                        |  | 38                   |  | 39                                                                                                                                        |  | 40                                                                                    |  | 41                                                                                                                                                          |  | 42                                     |  | 43                       |  | 44                       |  |                                                                                                                                                           |  |                                                                                                                                                                                                                    |  |  |  |
|   |   | REW<br>FILE<br>PROT<br>END<br>POINT<br>REV<br>OFF<br>LINE<br>END<br>LD PT<br>READY<br>WRITE<br>SEL<br>LOAD<br>PWR |  |                   |  |                     |  |                             |  |                                                                                                                                                                                 |  |                                     |  |                              |  |                                   |  |                               |  |                 |  |                   |  |                               |  |                |  |                               |  |                           |  |                      |  |                                                                                                                                           |  |                                                                                       |  |                                                                                                                                                             |  |                                        |  |                          |  |                          |  |                                                                                                                                                           |  |                                                                                                                                                                                                                    |  |  |  |
|   |   | W726                                                                                                              |  | MOTION<br>CONTROL |  | FUNCTION<br>CONTROL |  | WRITE<br>BUFFER             |  | HEAD DRIVER                                                                                                                                                                     |  | READ BUFFER                         |  | SLIDER                       |  | PEAK DET                          |  | COMPRESSOR                    |  | READ AMP        |  |                   |  |                               |  |                |  |                               |  |                           |  |                      |  |                                                                                                                                           |  |                                                                                       |  |                                                                                                                                                             |  |                                        |  |                          |  |                          |  |                                                                                                                                                           |  |                                                                                                                                                                                                                    |  |  |  |
|   |   | SWITCH<br>FILTER                                                                                                  |  |                   |  |                     |  |                             |  |                                                                                                                                                                                 |  |                                     |  |                              |  |                                   |  |                               |  |                 |  |                   |  |                               |  |                |  |                               |  |                           |  |                      |  |                                                                                                                                           |  |                                                                                       |  |                                                                                                                                                             |  |                                        |  |                          |  |                          |  |                                                                                                                                                           |  |                                                                                                                                                                                                                    |  |  |  |

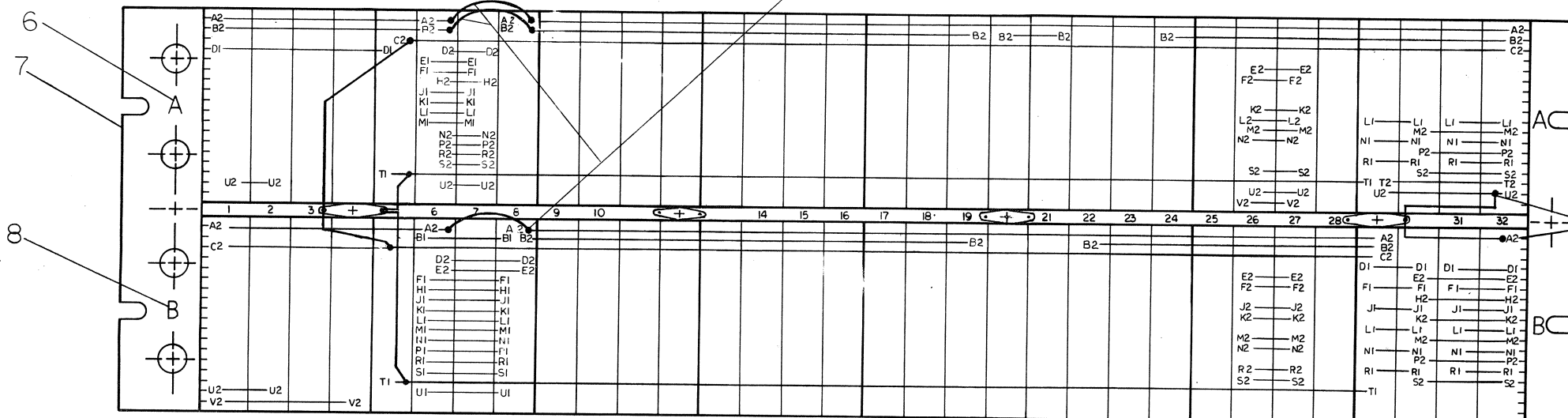
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| A SIDE      |        | P SIDE      |        | P SIDE      |        |
|-------------|--------|-------------|--------|-------------|--------|
| CONNECTIONS |        | CONNECTIONS |        | CONNECTIONS |        |
| FROM        | TO     | FROM        | TO     | FROM        | TO     |
| A29 C2      | A31 C2 | B29 D2      | B31 D2 | B06 L2      | B08 C2 |
| A29 N2      | A31 N2 | B29 F2      | B31 F2 | B06 M2      | B08 M2 |
| A29 P2      | A31 P2 | B29 J2      | B31 J2 | B06 N2      | B08 N2 |
| A26 T2      | A27 T2 | B29 L2      | B31 L2 | B06 P2      | B08 P2 |
|             |        | B29 N2      | B31 N2 | B06 R2      | B08 R2 |
|             |        | B29 R2      | B31 R2 | B06 S2      | B08 S2 |
|             |        | B06 A1      | B08 A1 | B06 T2      | B08 T2 |
|             |        | B06 C1      | B08 C1 | B06 U2      | B08 U2 |
|             |        | B06 F2      | B08 F2 |             |        |
|             |        | B06 K2      | B08 K2 |             |        |

| A SIDE      |        | B SIDE      |        |
|-------------|--------|-------------|--------|
| CONNECTIONS |        | CONNECTIONS |        |
| FROM        | TO     | FROM        | TO     |
| A32 M2      | A32 P2 | B32 A2      | B32 C2 |
| A32 P2      | A32 S2 | B32 C2      | B32 F2 |
| A32 S2      | A32 U2 | B32 E2      | B32 H2 |
|             |        | B32 H2      | B32 K2 |
|             |        | B32 K2      | B32 M2 |
|             |        | B32 M2      | B32 P2 |
|             |        | B32 P2      | B32 S2 |

#### NOTES:

- CONNECTIONS ON ITEM NUMBER 1 & 2 TO BE LOCATED AND SOLDERED AT MINIMUM PRACTICAL HEIGHT ABOVE BLOCKS.
- ALL CONNECTOR BLOCKS TO BE GROUNDED TO GROUND LUGS AS SHOWN.
- JUMPER GROUND BUSSING AS SHOWN, 8 PLACES.
- USE YELLOW WIRE (ITEM #4) FOR MACHINE WRAPPED AND BLUE WIRE (ITEM #5) FOR HAND WRAPPED WIRING.
- SOLDER GND WIRING AS SHOWN AFTER COMPLETING VERTICAL BUSSING.
- VERTICAL BUS WIRE TO BE SOLDERED AT EVERY PIN.
- ITEM NO. 3 (NO. 22 TUBING) TO BE CUT .12 LG. AND INSTALLED AS INSULATION BETWEEN HORIZONTAL BUSSING LEVELS. NO INSULATION BETWEEN VERTICAL BUSSING LEVEL.



SEE NOTE # 5

SEE NOTE # 1

SEE NOTE 2

SEE NOTE 3

2 REF  
3 REF

DETAIL A  
3 PLACES  
SEE NOTE 2

SECOND LEVEL BUSSING  
(HORIZONTAL)  
VIEW A-A

SECOND LEVEL BUSSING  
(VERTICAL)  
VIEW B-B

| WIRE TABLE |             |      |        |        |          | FIRST USED ON OPTION/MODEL                                    |  | QTY.                                |  | DESCRIPTION         |  | PART NO.                                                |  | ITEM NO. |  |
|------------|-------------|------|--------|--------|----------|---------------------------------------------------------------|--|-------------------------------------|--|---------------------|--|---------------------------------------------------------|--|----------|--|
| ITEM NO.   | DESCRIPTION | FROM | TO     | SIGNAL |          | TUIØ                                                          |  |                                     |  | PARTS LIST          |  | digital EQUIPMENT CORPORATION<br>MAYNARD, MASSACHUSETTS |  |          |  |
| 9          | 24          | RED  | A22 B2 | A19 B2 | -15V     | DO NOT SCALE DRAWING                                          |  | DRN. <i>Richard</i>                 |  | DATE <i>12-2-70</i> |  |                                                         |  |          |  |
| ↑          | ↑           | ↑    | B22 B2 | B19 B2 | -15V     | UNLESS OTHERWISE SPECIFIED                                    |  | CHKD. <i>JT Gering</i>              |  | DATE <i>2-1-71</i>  |  |                                                         |  |          |  |
|            |             |      | A20 B2 | B20 B2 | -15V INT | DIMENSION IN INCHES                                           |  | ENG. <i>Richard</i>                 |  | DATE <i>2-1-71</i>  |  |                                                         |  |          |  |
| ↓          | ↓           | ↓    | A20 B2 | A16 H2 | -15V INT | TOLERANCES                                                    |  | PROJ. ENG. <i>Richard</i>           |  | DATE <i>2-1-71</i>  |  |                                                         |  |          |  |
| 9          | 24          | RED  | A22 B2 | A25 B2 | -15V     | DECIMALS FRACTIONS ANGLES<br>± .005 ± 1/64 ± 0°30'            |  | PROD. <i>BE Gering</i>              |  | DATE <i>2-15-71</i> |  |                                                         |  |          |  |
|            |             |      |        |        |          | FINAL SURFACE QUALITY<br>REMOVE BURRS AND BREAK SHARP CORNERS |  | NEXT HIGHER ASSY<br>CAD-7006754 0-0 |  |                     |  |                                                         |  |          |  |
|            |             |      |        |        |          | MATERIAL                                                      |  |                                     |  | SIZE CODE           |  | NUMBER                                                  |  | REV.     |  |
|            |             |      |        |        |          | FINISH                                                        |  |                                     |  | D AD                |  | 7006755-0-0                                             |  | E        |  |
|            |             |      |        |        |          |                                                               |  |                                     |  | SHEET               |  | 1 OF 1                                                  |  | DIST.    |  |

[illegible]

DEC FORM NO.16-1031  
DRA 110