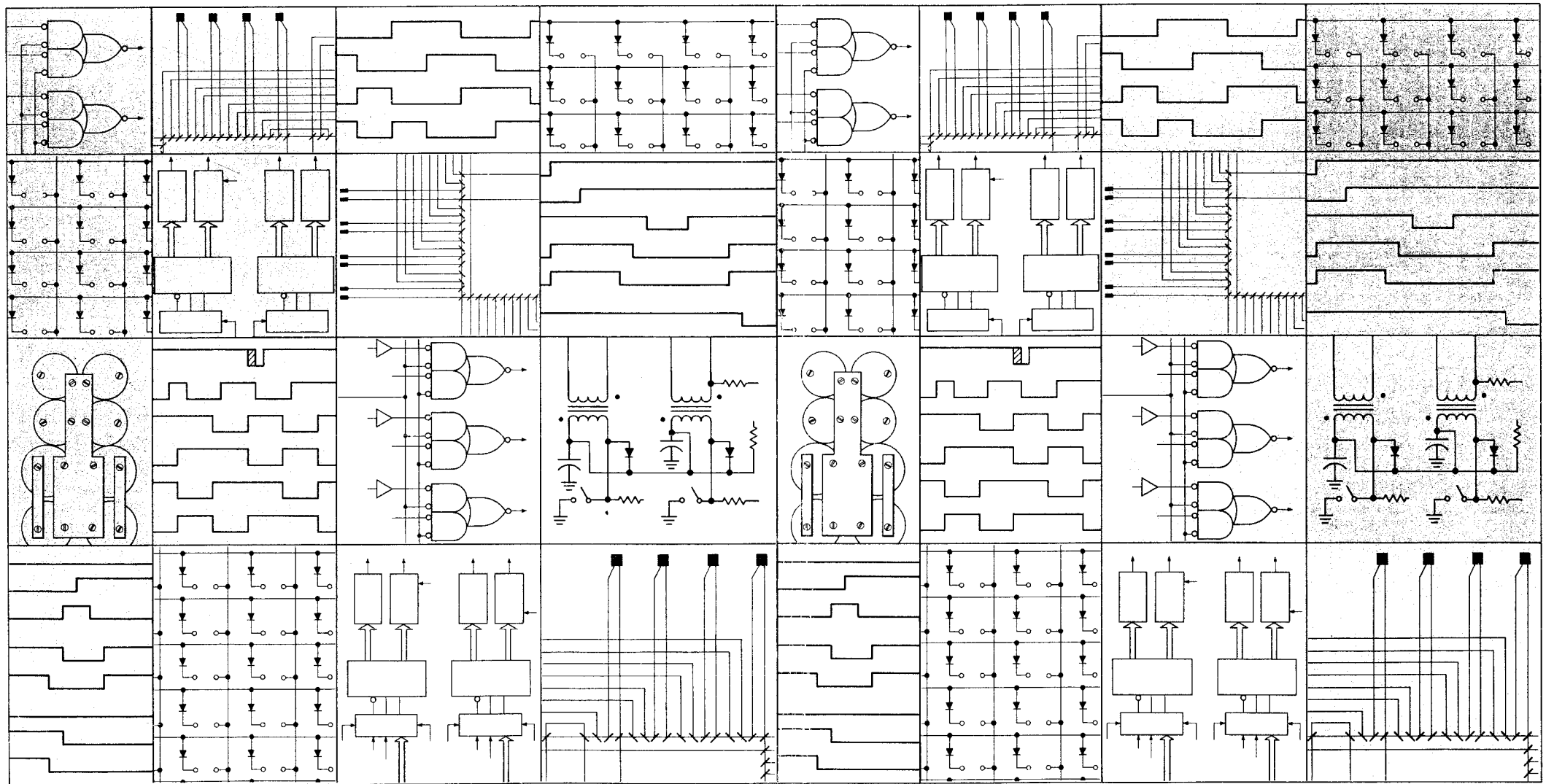
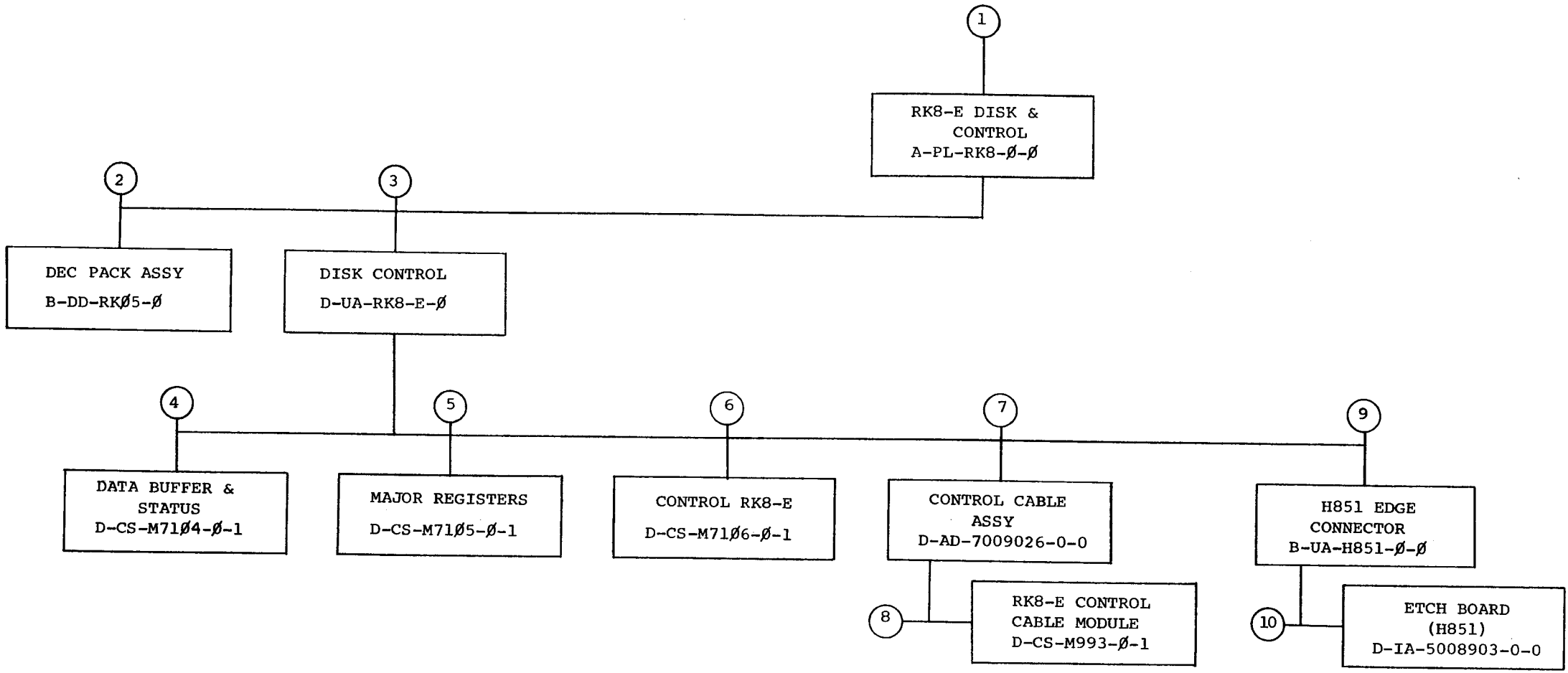


pdp8/e
pdp8/f & pdp8/m



digital

**RK8-E disk
cartridge control
engineering drawings**



| TITLE | SHEET | SIZE | CODE | NUMBER | REV |
|----------------------|--------|------|------|--------|-----|
| RK8-E DISK & CONTROL | 2 OF 3 | B | DD | RK8-Ø | |

| CUSTOMER PRINT SET | | MECHANICAL/ELECTRICAL | | | | | CUSTOMER PRINT SET | | MECHANICAL/ELECTRICAL | | | | | | | | | |
|--------------------|--|-----------------------|----------|------------------------------------|-----|-----------|------------------------------------|----------------------|-----------------------|--|----------|----------|------------------------------|-----|-----------|------------------------------|----------------------|--|
| | | MFG. SET | FIND NO. | DRAWING NO. | REV | NO OF SHT | DESCRIPTION | OPTION NO./FILE DATE | | | MFG. SET | FIND NO. | DRAWING NO. | REV | NO OF SHT | DESCRIPTION | OPTION NO./FILE DATE | |
| x | | | 1 | A-PL-RK8- β - β | | 1 | RK8-E DISK & CONTROL | | x | | | 7 | D-AD-7009026-0-0 | | 2 | CONTROL CABLE ASSY, | | |
| X | | | 2 | B-DD-RK \emptyset 5- β | B | 5 | DEC PACK ASSY | | x | | | 8 | D-CS-M993- β -1 | * | 2 | RK8-E CONTROL CABLE MODULE | | |
| | | | | | | | | | | | | | K-CO-M993- β -4 | | 1 | X-Y COORDINATE HOLE LOCATION | | |
| | | | | | | | | | | | | | D-AH-M993- β -5 | | 1 | ASSY/DRILLING HOLE LAYOUT | | |
| | | | | | | | | | | | | | B-MH-M993- β -6 | | 1 | MODULE ECO HISTORY | | |
| x | | | 3 | D-UA-RK8-E- β | | 1 | DISK CONTROL | | x | | | 9 | B-UA-H851- β - β | A | 1 | H851 EDGE CONNECTOR | | |
| x | | | | D-FD-RK8-E-1 | | 4 | FLOW DIAGRAM RK8-E | | | | | | A-PL-H851- β - β | A | 1 | H851 EDGE CONNECTOR | | |
| x | | | | D-TD-RK8-E-2 | | 1 | MAJOR STATES & TIMING FLOW | | | | | | B-CS-H851- β -1 | A | | EDGE CONNECTOR H851 | | |
| x | | | | A-AL-RK8-E-3 | | 1 | ACCESSORY SHIPPING LIST | | | | | | C-AH-H851- β -5 | A | 1 | ASSY/DRILLING HOLE LAYOUT | | |
| | | | | A-SP-RK8-E-4 | | 3 | MODULE TEST & ACCEPTANCE FOR RK8-E | | | | | | B-MH-H851- β -6 | | 1 | MODULE ECO HISTORY | | |
| | | | | A-SP-RK8-E-5 | | 39 | RK8E DISK CONTROL | | | | | | | | | | | |
| x | | | | A-SP-RK8-E-6 | | 5 | FIELD INSTALL & ACCEPT. PROC. | | | | | | | | | | | |
| | | | | A-SP-RK8-E-7 | | 5 | IN-HOUSE ACCEPT. PROC. | | | | | | | | | | | |
| x | | | 4 | D-CS-M71 \emptyset 4- β -1 | A | 7 | DATA BUFFER & STATUS | | | | | 10 | D-IA-5008903-0-0 | A | 1 | ETCH BOARD (H851) | | |
| | | | | K-CO-M71 \emptyset 4- β -4 | | 1 | X-Y COORDINATE HOLE LOCATION | | | | | | C-AH-5008903-0-5 | | 1 | ASSY/DRILLING HOLE LOCATION | | |
| | | | | D-AH-M71 \emptyset 4- β -5 | | 1 | ASSY/DRILLING HOLE LAYOUT | | | | | | | | | | | |
| | | | | B-MH-M71 \emptyset 4- β -6 | | 1 | MODULE ECO HISTORY | | | | | | | | | | | |
| x | | | 5 | D-CS-M71 \emptyset 5- β -1 | A | 5 | MAJOR REGISTERS | | | | | | | | | | | |
| | | | | K-CO-M71 \emptyset 5- β -4 | | 1 | X-Y COORDINATE HOLE LOCATION | | | | | | | | | | | |
| | | | | D-AH-M71 \emptyset 5- β -5 | | 1 | ASSY DRILLING HOLE LAYOUT | | | | | | | | | | | |
| | | | | B-MH-M71 \emptyset 5- β -6 | | 1 | MODULE ECO HISTORY | | | | | | | | | | | |
| x | | | 6 | D-CS-M71 \emptyset 6- β -1 | A | 6 | CONTROL RK8-E | | | | | | | | | | | |
| | | | | K-CO-M71 \emptyset 6- β -4 | | 1 | X-Y COORDINATE HOLE LOCATION | | | | | | | | | | | |
| | | | | D-AH-M71 \emptyset 6- β -5 | | 1 | ASSY/DRILLING HOLE LAYOUT | | | | | | | | | | | |
| | | | | B-MH-M71 \emptyset 6- β -6 | | 1 | MODULE ECO HISTORY | | | | | | | | | | | |

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
RK8-E DISK & CONTROL

SIZE CODE
B DD

NUMBER
RK8- \emptyset

REV

SHEET 3 OF 3

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

DATE 10-12-72

TITLE RK8E FIELD INSTALLATION AND ACCEPTANCE PROCEDURE

REVISIONS

| REV | DESCRIPTION | CHG NO | ORIG | DATE | APPD BY | DATE |
|-----|-------------|--------|------|------|---------|------|
| | | | | | | |

| | | | | | | |
|----------------------|---------------|-------------------------|---------------|---------|----------------|-----|
| ENG <i>R. J. ...</i> | DATE 10-12-72 | APPD <i>[Signature]</i> | SIZE A | CODE SP | NUMBER RK8-E-6 | REV |
|----------------------|---------------|-------------------------|---------------|---------|----------------|-----|

DEC FORM NO. DRA 107A

ENGINEERING SPECIFICATION

079100

CONTINUATION SHEET

TITLE RK8E FIELD INSTALLATION AND ACCEPTANCE PROCEDURE

- 1.0 SHIPPING HARDWARE
 - 1.1 RK8E Control
 - 1.1.1 M7104
 - 1.1.2 M7105
 - 1.1.3 M7106
 - 1.2 RK05 Disk Drive (Maximum of 4 drives per control)
 - 1.2.1 95 to 130VAC @ 60 ± 0.5 Hz - RK05-AA
 - 1.2.2 190 to 260VAC @ 60 ± 0.5 Hz - RK05-AB
 - 1.2.3 95 to 130 VAC @ 50 ± 0.5 Hz - RK05-BA
 - 1.2.4 190 to 260 VAC @ 50 ± 0.5 Hz - RK05-BB
 - 1.3 Interface Cables and Terminator
 - 1.3.1 Interface cable between RK8E control and RK05 - 7009026
 - 1.3.2 Interface cable from one RK05 to another. BC11A
 - 1.3.3 Terminator Module (last RK05) M930
 - 1.4 (1) Disk Cartridge, HD16 Sector, 30-10350-02.
- 2.0 SHIPPING SOFTWARE
 - 2.1 RK8E Diskless Control Test
 - Maindec-08-DHRKA-A-PB
 - Maindec-08-DHRKA-A-D
 - 2.2 RK8E Drive Control Test
 - Maindec-08-DHRKB-A-PB
 - Maindec-08-DHRKB-A-D
 - 2.3 RK8E Formatter Program
 - Maindec-08-DHRKD-A-PB
 - Maindec-08-DHRKD-A-D
 - 2.4 RK8E Data Reliability Program
 - Maindec-08-DHRKC-A-PB
 - Maindec-08-DHRKC-A-D

| | | | |
|---------------|---------|----------------|-----|
| SIZE A | CODE SP | NUMBER RK8-E-6 | REV |
|---------------|---------|----------------|-----|

DEC FORM NO 16-1022
DRA 108

TITLE RK8E FIELD INSTALLATION AND ACCEPTANCE PROCEDURE

3.0 UNPACKING AND INSTALLATION

- 3.1 Unpack and inspect RK05 using the procedure in the RK05 Disk Drive Maintenance Manual, Chapter 2.
- 3.2 Using the Shipping Hardware and Software lists, verify that all items are present.
- 3.3 Insure power on the PDP-8E, 8M, 8F is turned off.
- 3.4 Check the M7104 to insure that the device code jumpers are in the correct configuration (normally 674X), refer to Table 1.

NOTE: The diagnostic programs normally recongnizes Program Device Code 674X. If it desired to operate with a different code, refer to the Diagnostic Document's Section headed "Change Program Device Codes".

TABLE 1

| <u>Octal Code</u> | <u>Jumpers Installed</u> |
|-------------------|--------------------------|
| 674X | W2 W4 W6 |
| 675X | W2 W3 W4 |
| 676X | W1 W2 W6 |
| 677X | W1 W2 W3 |

- 3.5 Check M7105 module to insure that the priority jumpers are in the correct configuration, refer to Table 2.

| | | | |
|------|------|---------|-----|
| SIZE | CODE | NUMBER | REV |
| A | SP | RK8-E-6 | |

SHEET 3 OF 5

TITLE RK8E FIELD INSTALLATION AND ACCEPTANCE PROCEDURE

3.0 UNPACKING AND INSTALLATION (continued)

TABLE 2

| <u>Break Priority</u> | <u>Jumpers Installed</u> |
|-----------------------|--------------------------|
| ∅ | W1 W4 |
| 1* | W2 W3 W5 |

*Normally shipped with priority 1 jumpers installed.

- 3.6 Connect the 7009026 cable to the Berg connector on the M7106 module.
- 3.7 Insert the RK8E modules into the Omnibus (refer to UA-RK8-E-∅). Refer to Table 2-3 in Volume I of the PDP-8E Maintenance Manual for installation priorities.
- 3.8 Install H851 top connectors between the modules (refer to UA-RK8-E-∅).
- 3.9 Following the procedure in the RK05 Maintenance Manual, Chapter 2, install the RK05.

4.0 ACCEPTANCE

- 4.1 Requirements for Acceptance
- ASR33 teletype, or equivalent.
 - Programmers console.
 - At least 4K of Read/Write Memory.
- 4.2 Run, in order, the programs listed in the "Shipping Software", using the loading and operating procedures in each program's document. If any errors occur, refer to the errors section of the document to evaluate the printout, and Chapter 5 of the RK8E Maintenance Manual for aids in determining the problem.

| | | | |
|------|------|---------|-----|
| SIZE | CODE | NUMBER | REV |
| A | SP | RK8-E-6 | |

SHEET 4 OF 5

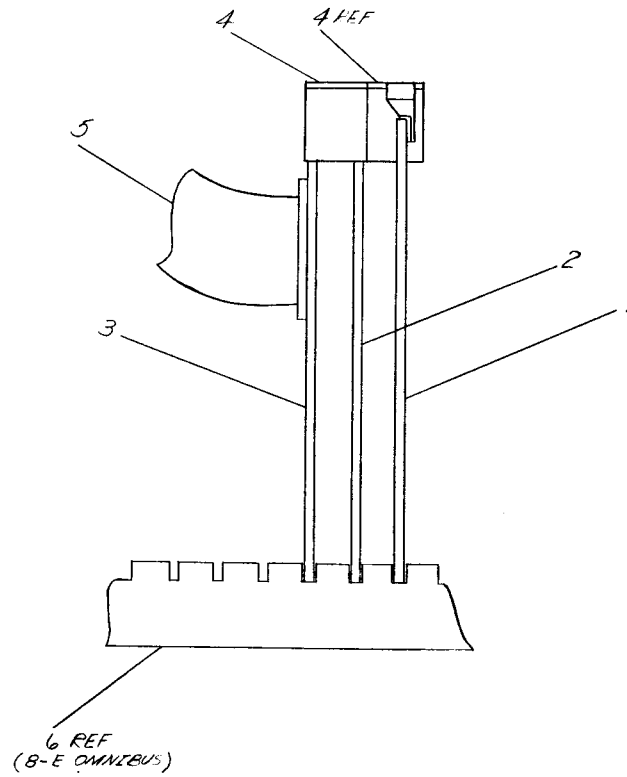
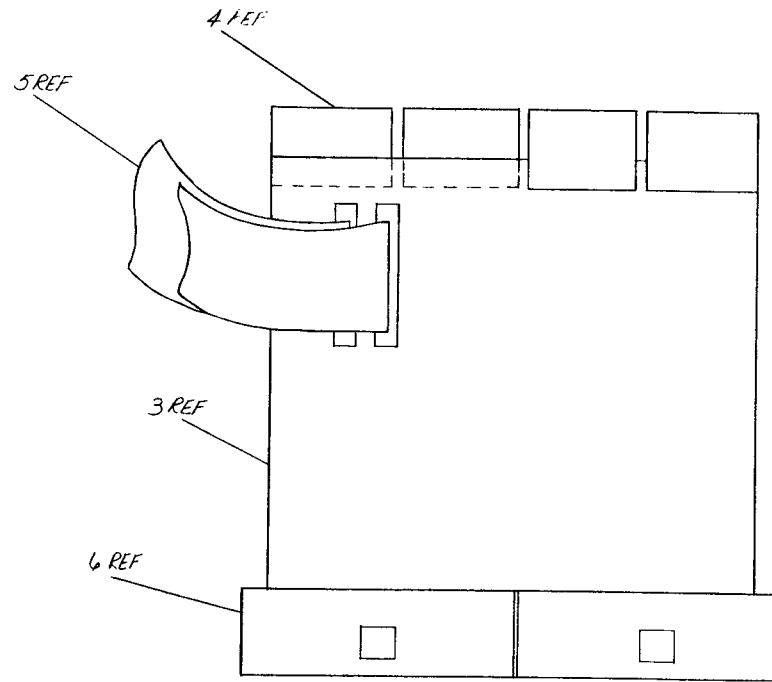
TITLE RK8E FIELD INSTALLATION AND ACCEPTANCE PROCEDURE

- 4.0 ACCEPTANCE (continued)
- 4.3 Each program should be run the following amount of passes.
- A. Diskless Control Test - Two Passes
 - B. Drive Control Test - Two Passes
 - C. Formatter Program - One Pass
 - D. Data Reliability Program - One Pass
- 4.4 Acceptable Errors
- A. One read error during the Acceptance Procedure

| SIZE | CODE | NUMBER | REV |
|------|------|---------|-----|
| A | SP | RK8-E-6 | |

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

438 4-1-EXL 2 2



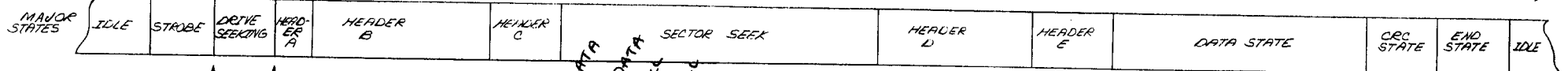
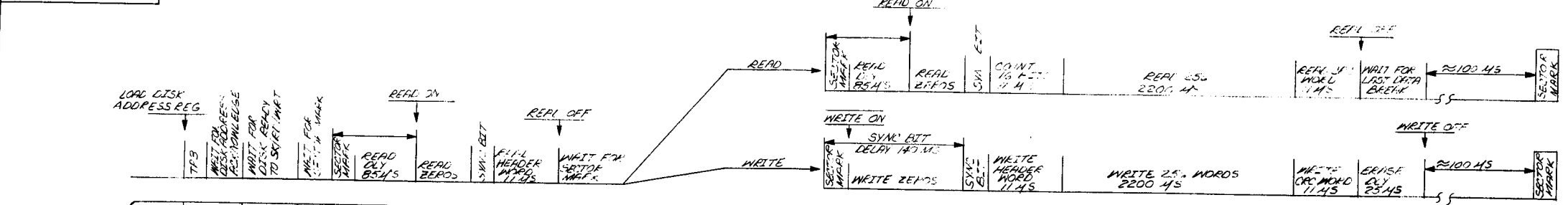
| QTY. | DESCRIPTION | PART NO. | ITEM NO. |
|------|----------------------|-----------------|----------|
| 1 | M993 TO BERG | D-AD-7079026-00 | 5 |
| 4 | EDGE CONNECTOR | B-UP-H851-0-0 | 4 |
| 1 | CONTROL, RKB-E | D-CS-M7106-01 | 3 |
| 1 | MARK REGISTERS | D-CS-M7105-0-1 | 2 |
| 1 | DATA BUFFER & STATUS | D-CS-M7104-01 | 1 |

| FIRST USED ON OPTION/MODEL | | PARTS LIST | |
|---|-------------------|------------------|---|
| RKB-E | | | |
| UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES | DRN M. C. ... | DATE 11/17/72 | digital EQUIPMENT CORPORATION <small>MAINTAINING MASSACHUSETTS</small> DISK CONTROL |
| DECIMALS | CHK'D. | DATE | |
| ANGLES | ENG. | DATE | |
| xxx + .005 xx + .02 x + .1 | PROJ. ENG. | DATE | |
| REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY | PROD. | DATE | |
| MATERIAL | NEXT HIGHER ASSY. | | |
| FINISH | B-DI-4KS-0 | SIZE CODE | NUMBER |
| | SCALE | | DUA RKB-E-0 |
| | SHEET | OF | DIST. |

REV. 42-107 1968
 REVISIONS
 CHANGE NO.
 CHK.
 DRG. FORM NO. DRG. 100-A

REV. 42-107 1968
 DUA RKB-E-0

This drawing and specifications herein are the property of Digital Equipment Corporation and shall not be reproduced in whole or in part as the basis for the manufacture or sale of items without written permission.



IF "SEEK ONLY" GO TO IDLE AND SET DONE FLAG.
IF NOT A HEADER CHECK, GO TO SECTOR SEEK STATE.

| MAJOR STATE | FUNCTION | SEEK | SK/CHK/RO | SK/CHK/WRT | SK/RO | SK/WRT |
|---------------|---|------|-----------|------------|-------|--------|
| IDLE | CONTROL IS NOT BUSY. WHEN THE GO COMMAND (DAS) IS ISSUED THE C (AC) IS LOADED INTO THE CRC* AND SECTOR-SURFACE REGISTERS (DISK ADDRESS) | ✓ | ✓ | ✓ | ✓ | ✓ |
| STROBE | STROBE THE CYLINDER ADDRESS FROM THE C REGISTER TO THE DRIVE AND WAIT FOR THE DRIVE'S "ADDRESS ACKNOWLEDGE" SIGNAL. | ✓ | ✓ | ✓ | ✓ | ✓ |
| DRIVE SEEKING | WAIT FOR THE "DISK READY TO SEEK/READ/WRITE" LEVEL FROM THE DRIVE TO SIGNIFY THAT THE HEADS ARE POSITIONED OVER THE CYLINDER ADDRESS. | | ✓ | ✓ | ✓ | ✓ |
| HEADER A | WAIT FOR THE FIRST SECTOR MARK, THEN START THE READ DELAY. | | ✓ | ✓ | | |
| HEADER B | AT THE END OF THE READ DELAY TURN THE READ FLOP ON. ZEROS WILL BE READ UNTIL THE SYNC BIT WHICH SIGNIFYS THE BEGINNING OF A SECTOR'S DATA. | | ✓ | ✓ | | |
| HEADER C | READ THE 16 BIT HEADER WORD AND COMPARE IT WITH THE CYLINDER ADDRESS IN THE CRC REGISTER. | | ✓ | ✓ | | |
| SECTOR SEEK | IF THE HEADER WORD DOES NOT EQUAL THE CYLINDER ADDRESS SET THE "CYLINDER ADDRESS ERROR" AND GO TO THE IDLE STATE. AT EACH SECTOR MARK COMPARE THE SECTOR ADDRESS WITH THE DISK SECTOR ADDRESS LINES, IF EQUAL GO TO THE NEXT STATE. | | ✓ | ✓ | ✓ | ✓ |
| HEADER D | AT THE BEGINNING OF THE SECTOR START THE "READ DELAY". AT THE END OF THE "READ DELAY" SET "READ." ZEROS WILL BE READ UNTIL THE SYNC BIT. | | ✓ | | ✓ | |

| MAJOR STATE | FUNCTION | SEEK | SK/CHK/RO | SK/CHK/WRT | SK/RO | SK/WRT |
|-------------|---|------|-----------|------------|-------|--------|
| HEADER E | COUNT AND IGNORE THE FIRST 16 BITS. WRITE THE HEADER WORD SPECIFIED BY THE CRC REGISTER. | | ✓ | | ✓ | ✓ |
| DATA STATE | READ 25-12 BIT WORDS FROM THE DISK INTO THE DATA BUFFER AND COMPUTE THE CRC. TRANSFER 12 BIT WORD FROM DATA BUFFER TO THE PROCESSOR. THE CONTROL WILL TRY TO KEEP DATA BUFFER EMPTY VIA DATA BREAKS. WRITE ON THE DISK 25-12 BIT WORDS TRANSFERED FROM THE PROCESSOR TO THE DATA BUFFER. TRYING TO KEEP DATA BUFFER FULL VIA DATA BREAKS. COMPUTE CRC. | | ✓ | | ✓ | ✓ |
| CRC STATE | READ AND COMPARE THE CRC WORD WITH THE COMPUTED CRC. WRITE THE COMPUTED CRC ON THE DISK. | | ✓ | | ✓ | ✓ |
| END STATE | IF THE CRC FROM THE DISK DOES NOT EQUAL THE COMPUTED CRC, SET THE "CRC ERROR" CLEAR READ. WHEN THE DATA BUFFERS ARE EMPTIED INTO THE PROCESSOR SET THE DONE FLAG AND GO TO THE IDLE STATE. START THE ERASE DELAY AND WRITE ZEROS. AT THE END OF THE ERASE DELAY CLEAR WRITE, SET THE DONE FLAG AND GO TO THE IDLE STATE. | | ✓ | | ✓ | ✓ |

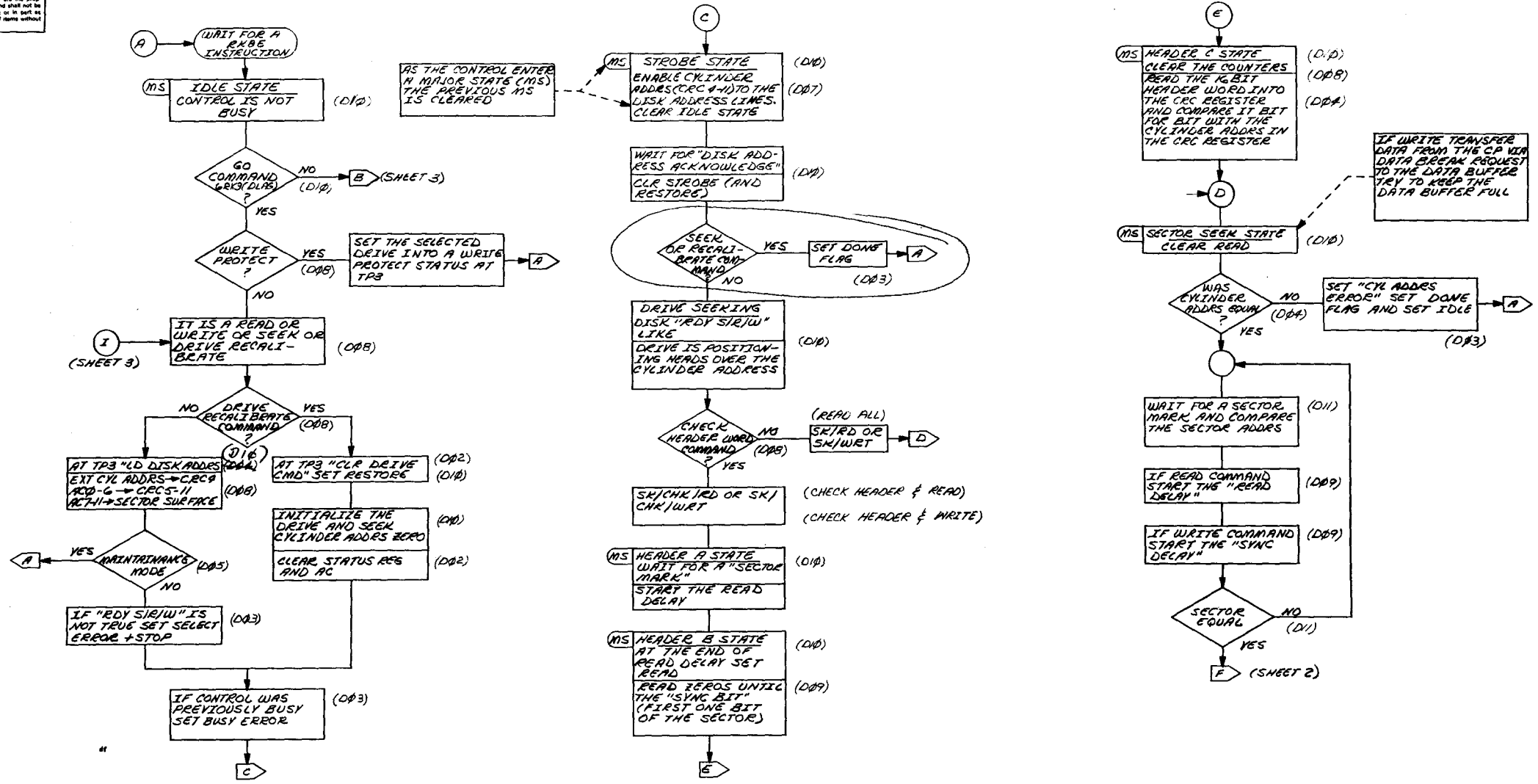
CRC = $\frac{3702 \text{ bits}}{x^{16} + x^{15} + 1}$

16 Bit Header Word 5 ϕ 's, 6 bit Cyl. Add, 3 ϕ 's
16 bits

REVISIONS
REV
CHANGE NO.
CHK
DTC FORM NO
ORD 102-B

| FIRST USED ON OPTION/MODEL | QTY. | DESCRIPTION | PART NO. | ITEM NO. |
|---|-------------------|-----------------------|-----------------|--|
| RK8-E | | | | |
| PARTS LIST | | | | |
| UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES | | DRN M. P. P. | DATE 7/21/72 | DIGITAL EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS |
| DECIMALS | ANGLES | CHK'D. | DATE | |
| XXX + .005 | 10° 30' | ENG. | DATE | |
| XX + .01 | | PROJ. ENG. | DATE | |
| X + .1 | | PROD. | DATE | TITLE MAJOR STATES TIMING & FLOW |
| MATERIAL | NEXT HIGHER ASSY. | SIZE CODE NUMBER REV. | | |
| FINISH | E-M-RK8-0 | DTRK8-E-2 | | |
| | SCALE | SHEET 1 OF 1 | | |

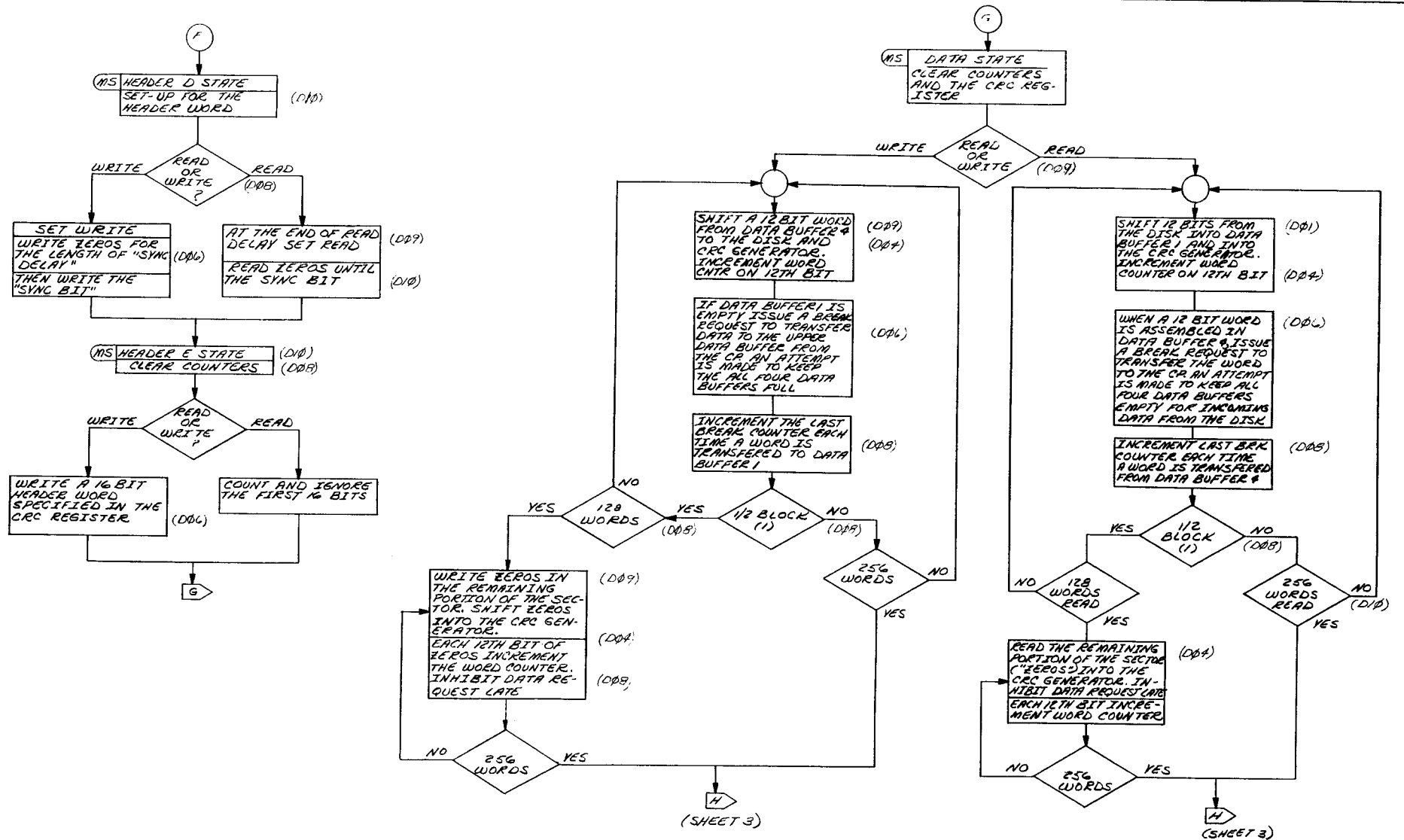
This drawing and specifications, herein are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.



BRUNING 40-522 10840
DEC FORM NO DRD 102-B

| FIRST USED ON OPTION/MODEL | QTY. | DESCRIPTION | PART NO. | ITEM NO. |
|---|-------------------|-----------------------|---------------|----------------------|
| RK8-E | | PARTS LIST | | |
| UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES | DRN <i>advent</i> | DATE 7/24/72 | | |
| DECIMALS ANGLES | CHKD <i>...</i> | DATE 8/2/72 | | |
| XXX - 006 XX - 02 X - 1 | 10' 30" | ENG <i>...</i> | DATE 10/17/72 | TITLE |
| REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY | ✓ | PROJ. ENG. <i>...</i> | DATE 10/17/72 | FLOW DIAGRAM (RK8-E) |
| MATERIAL | ++ | PROD. <i>...</i> | DATE 10/17/72 | |
| FINISH | ++ | NEXT HIGHER ASSY. | SIZE CODE | NUMBER |
| | | FID-RK8-E | D | FD RK8-E-1 |
| | | SCALE | 1 OF 4 | REV. |
| | | SHEET | | |

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied in whole or in part as the basis for the manufacture or sale of items without written permission.

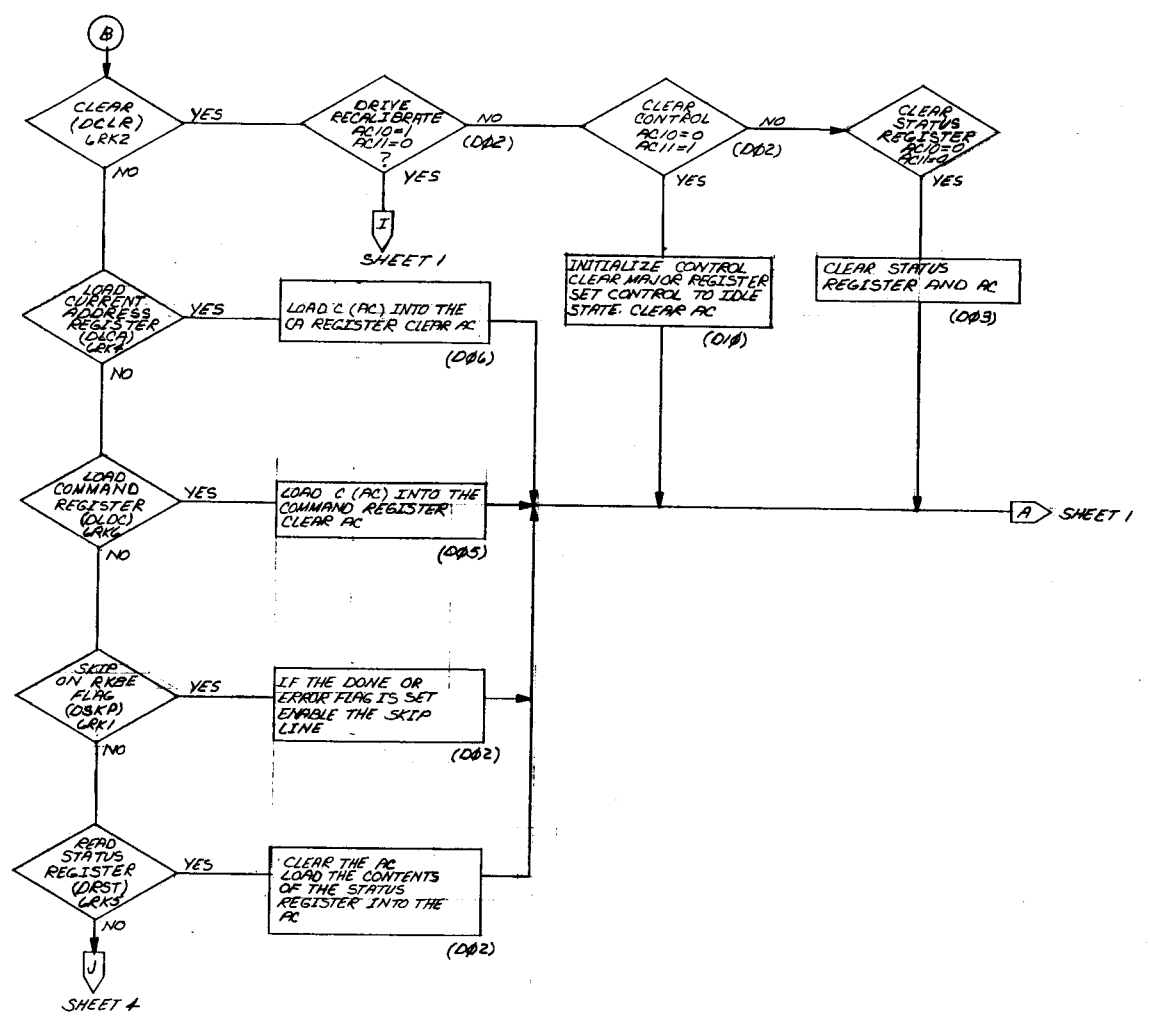
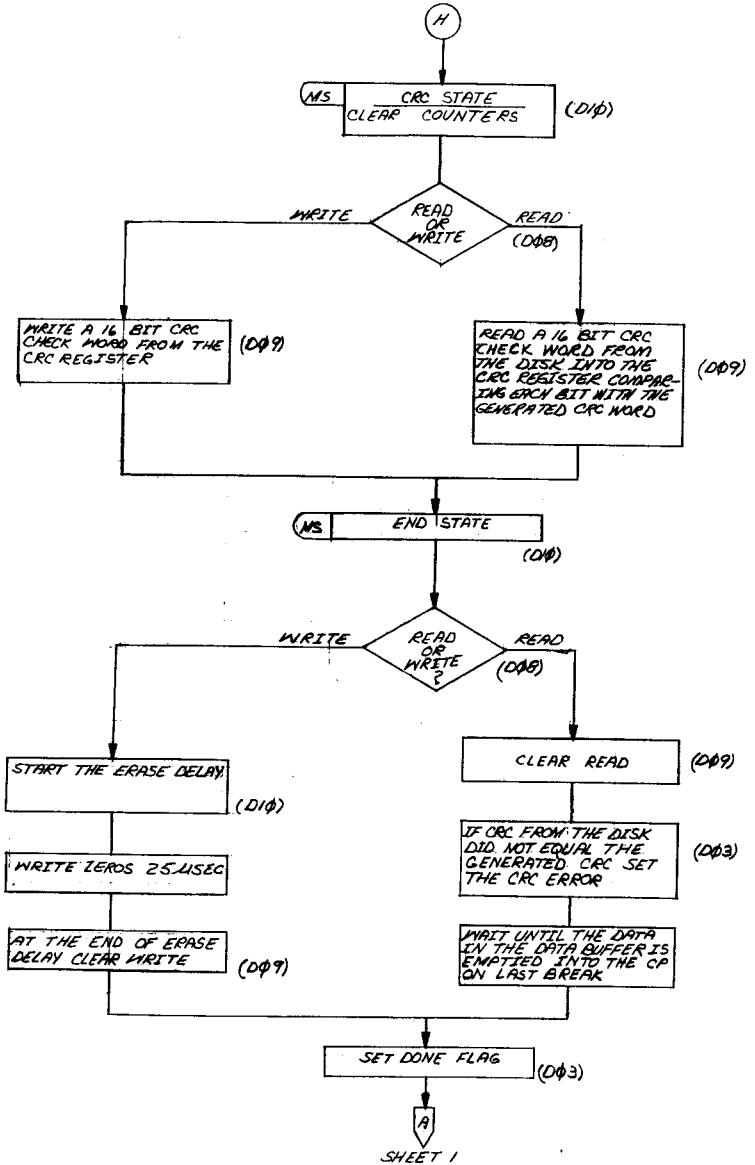


| REV | CHANGE NO | DATE |
|-----|-----------|------|
| | | |

| FIRST USED ON OPTION/MODEL | QTY. | DESCRIPTION | PART NO. | ITEM NO. |
|---|-------------------|--------------|--|------------|
| 1, K ² -L | | | | |
| PARTS LIST | | | | |
| UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES | DRN | DATE | digital EQUIPMENT CORPORATION <small>MAYNARD MASSACHUSETTS</small> | |
| TOLERANCES | CHK'D | DATE | | |
| DECIMALS ANGLES | ENG | DATE | | |
| .XXX - .005 20' 30" | PROJ. ENG | DATE | | |
| REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY | PROD. | DATE | TITLE FLOW DIAGRAM (RK6-E) | |
| MATERIAL | NEXT HIGHER ASSY. | | | |
| FINISH | | | | |
| | | SCALE | SIZE CODE | NUMBER |
| | | SHEET 2 OF 4 | D | FD RK6-E-1 |
| | | DIST | | REV. |

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

REV. NO. 2
 SIZE CODE DFD RK8-E-1

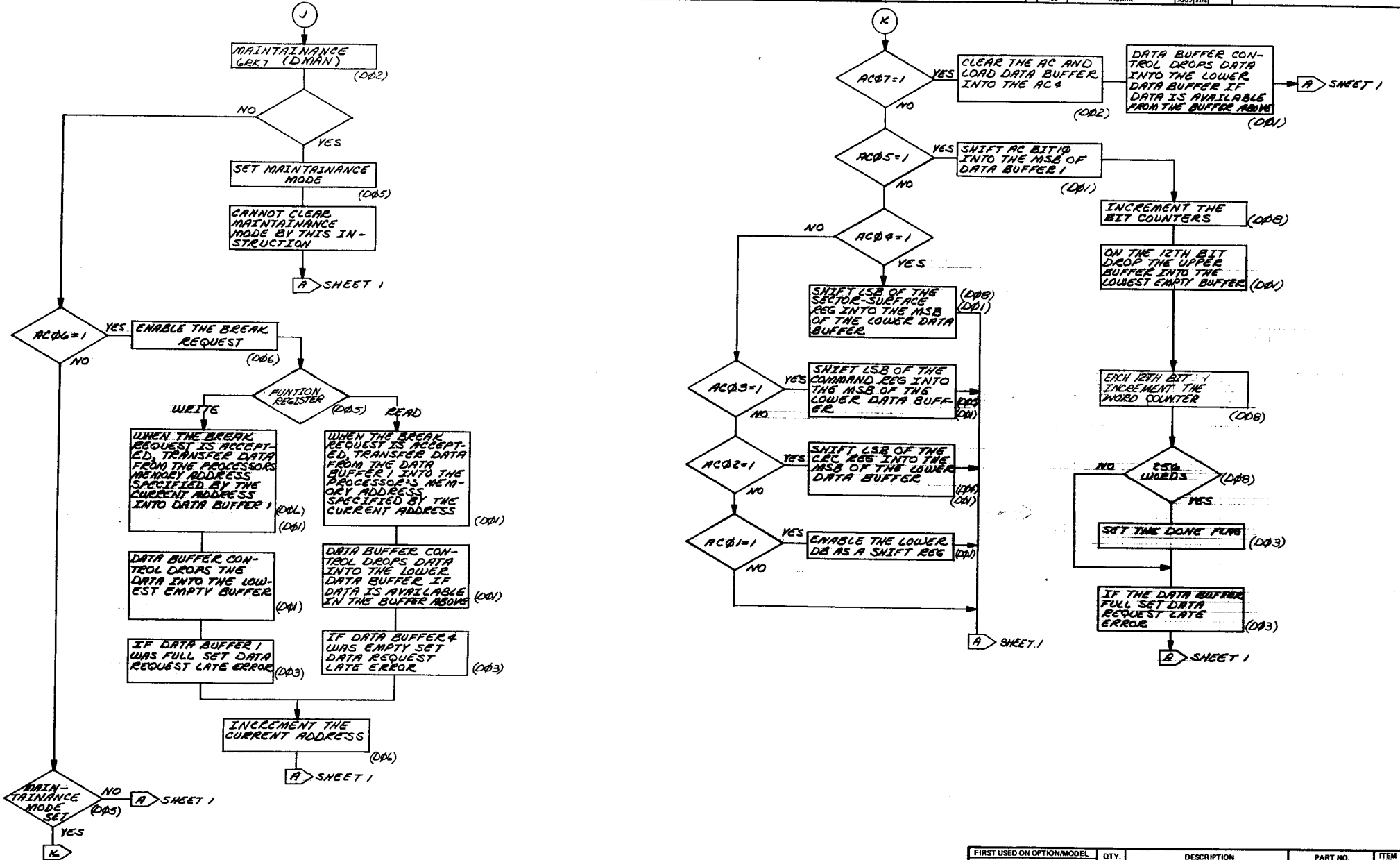


BRUNING 40-352 15840
 DEC FORM NO
 DRD 102-B

| REV | NO | DATE | BY |
|-----|----|--------|--------|
| 1 | 1 | 1/2/72 | 1/2/72 |

| FIRST USED ON OPTION/MODEL | QTY. | DESCRIPTION | PART NO. | ITEM NO. |
|---|---------------------|-----------------|---|----------------------|
| RK8-E | | | | |
| PARTS LIST | | | | |
| UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES | DRAWN M. A. RICE | DATE 6/22/72 | digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS | |
| DECIMALS .005 | CHECKED T. GREEN | DATE 7/9/72 | TITLE FLOW DIAGRAM (RK8-E) | |
| ANGLES ±0°30' | ENG M. A. RICE | DATE 6/21/72 | PROJ. ENG. M. A. RICE | |
| REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY | PROD. M. A. RICE | DATE 6/22/72 | MATERIAL NEXT HIGHER ASSY. | |
| FINISH | | | B-DD-RK8-0 | SIZE CODE D |
| | | | SCALE | NUMBER FD RK8-E-1 |
| | | | SHEET 3 OF 4 | REV. |
| | | | DIST. | |

The drawing and specifications herein are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.



REVISIONS

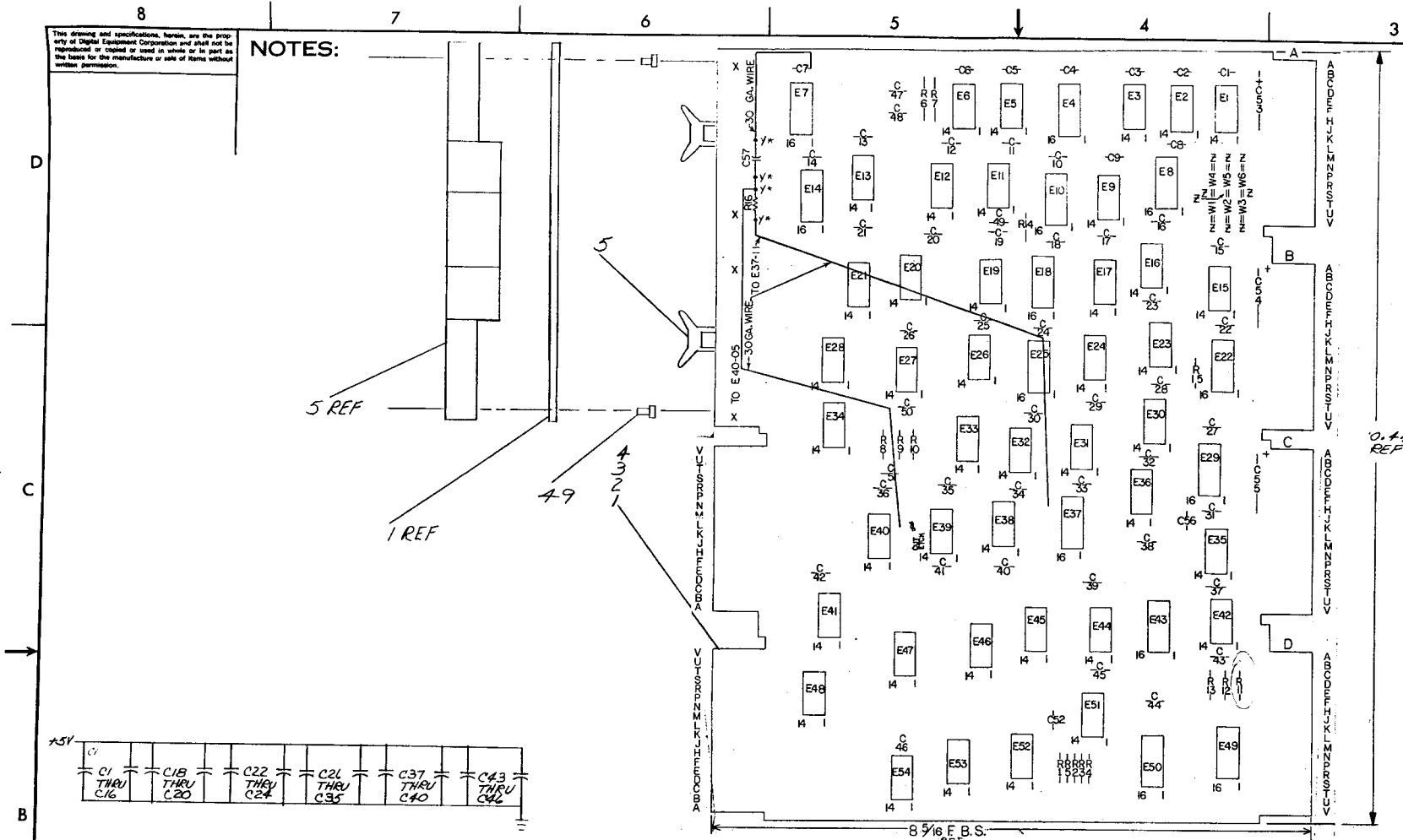
| REV | CHANGE NO | DATE |
|-----|-----------|----------|
| 1 | 001 | 02/17/72 |

DEC FORM NO DDD 102-B

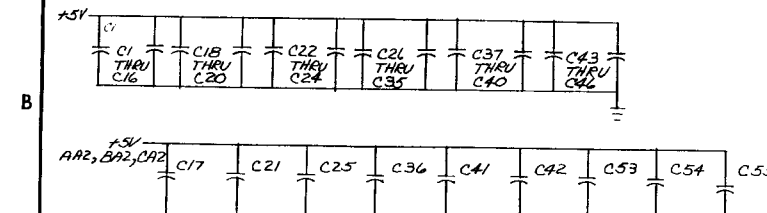
| FIRST USED ON OPTION/MODEL | QTY. | DESCRIPTION | PART NO. | ITEM NO. |
|--|----------|------------------------|----------------|---|
| RKB-E | | | | |
| UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES | | | | |
| TOLERANCES | | DRN: [Signature] | DATE: 7-17-72 | digital EQUIPMENT CORPORATION MATING, MASSACHUSETTS TITLE FLOW DIAGRAM (RKB-E) |
| DECIMALS | ANGLES | CHK'D: [Signature] | DATE: 11-9-72 | |
| .XXX - .006 | ± 0° 30' | ENG: [Signature] | DATE: 10/17/72 | |
| .XX - .02 | | PROJ. ENG: [Signature] | DATE: 10/17/72 | |
| .X - .1 | | DRAWN: [Signature] | DATE: 10/22/72 | |
| REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY | | | | |
| MATERIAL | | NEXT HIGHER ASSY. | | |
| FINISH | | SCALE | | |
| | | SHEET 4 OF 4 | | |
| | | SIZE CODE | NUMBER | REV. |
| | | DFD RKB-E-1 | | |

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

NOTES:

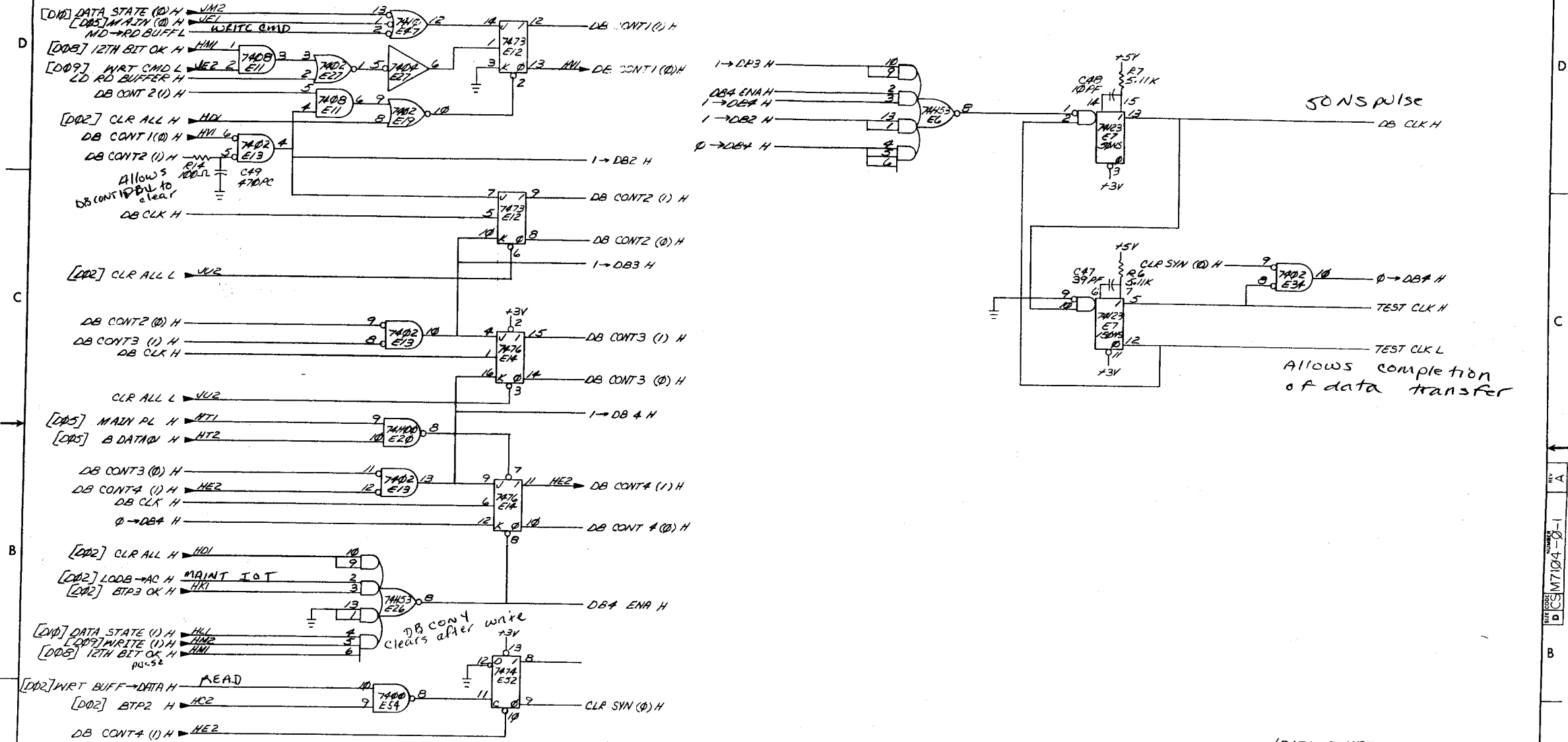


| | | | | |
|----|--|------------------------------|----------------|----|
| 1 | E43 | I.C. DEC 74193 | 1910018 | 42 |
| 4 | E8, E22, E29, E49 | I.C. DEC 8235 | 1909935 | 41 |
| 1 | E21 | I.C. DEC 74H04 | 1909931 | 40 |
| 1 | E36 | I.C. DEC 8881 | 1909705 | 39 |
| 1 | E1 | I.C. DEC 314 | 190974 | 38 |
| 4 | E16, E23, E27, E31 | I.C. DEC 74H04 | 1909686 | 37 |
| 1 | E38 | I.C. DEC 74H74 | 1909667 | 36 |
| 1 | E37 | I.C. DEC 8251B | 1909594 | 35 |
| 1 | E30 | I.C. DEC 384 | 1909486 | 34 |
| 4 | E2, E15, E35, E42 | I.C. DEC 380 | 1909485 | 33 |
| 2 | E4, E26 | I.C. DEC 74H53 | 1909062 | 32 |
| 1 | E20 | I.C. DEC 74H00 | 1909056 | 31 |
| 6 | E3, E5, E9, E17, E29, E32 | I.C. DEC 7495 | 1909055 | 30 |
| 6 | E13, E18, E28, E34, E51, E53 | I.C. DEC 7402 | 1909004 | 29 |
| 1 | E12 | I.C. DEC 7473 | 1905587 | 28 |
| 1 | E14 | I.C. DEC 7476 | 1905585 | 27 |
| 2 | E4, E44 | I.C. DEC 7440 | 1905579 | 26 |
| 1 | E47 | I.C. DEC 7410 | 1905576 | 25 |
| 3 | E45, E46, E54 | I.C. DEC 7400 | 1905575 | 24 |
| 2 | E39, E52 | I.C. DEC 7474 | 1905547 | 23 |
| 2 | R6, E7 | RES. 5.1K, 1/8W, 1%, MF | 1304854 | 22 |
| 2 | R2, R3 | RES. 100, 1/4W, 5%, C.C. | 1301322 | 21 |
| 2 | R12, R13 | RES. 4.7K, 1/4W, 5%, C.C. | 1300447 | 20 |
| 1 | R9 | RES. 2.2K, 1/4W, 5%, C.C. | 1300417 | 19 |
| 1 | R11 | RES. 1.0K, 1/4W, 5%, C.C. | 1300398 | 18 |
| 2 | R1, R4 | RES. 390, 1/4W, 5%, C.C. | 1300309 | 17 |
| 6 | R5, R8, R10, R14, R15, R16 | RES. 100, 1/4W, 5%, C.C. | 1300229 | 16 |
| 2 | | SPACER (CABLE CLAMP) | 1202704 | 15 |
| 10 | C1 THRU C6, C8 THRU C32 THRU C38, C24 THRU C35, C37 THRU C40, C43 THRU C46 | CAP. 0.1uF, 100V, 20%, DISC | 1001610 | 14 |
| 3 | C53 THRU C55 | CAP. 0.2uF, 35V, 20%, TANT | 1000067 | 13 |
| 2 | C49, C56 | CAP. 470pF, 100V, 5% DM | 1000024 | 12 |
| 1 | C51 | CAP. 330pF, 100V, 5% DM | 1000023 | 11 |
| 1 | C52 | CAP. 100pF, 100V, 5% DM | 1000020 | 10 |
| 1 | C50 | CAP. 100pF, 100V, 5% DM | 00018 | 9 |
| 1 | C47 | CAP. 39pF, 100V, 5% DM | 1000010 | 8 |
| 1 | C48 | CAP. 100pF, 100V, 5% DM | 1000006 | 7 |
| 6 | C17, C21, C25, C36, C41, C42 | CAP. 0.2uF, 100V, 20%, DISC | 1000004 | 6 |
| 2 | | HANDLE, FLIP-CHIP, MAGENTA | 9008337-06 | 5 |
| 1 | | ETCHED CIRCUIT BOARD | 5010064 | 4 |
| 3 | | MODULE ECO HISTORY | B-MH-M7104-B-3 | 3 |
| 2 | | ASSY/DRILLING HOLE LAYOUT | D-MH-M7104-B-5 | 2 |
| 1 | | X-Y COORDINATE HOLE LOCATION | K-CO-M7104-B-4 | 1 |



R22, R21, R20, R19, R18, R17, R16, R15, R14, R13, R12, R11, R10, R9, R8, R7, R6, R5, R4, R3, R2, R1, R0, R-1, R-2, R-3, R-4, R-5, R-6, R-7, R-8, R-9, R-10, R-11, R-12, R-13, R-14, R-15, R-16, R-17, R-18, R-19, R-20, R-21, R-22, R-23, R-24, R-25, R-26, R-27, R-28, R-29, R-30, R-31, R-32, R-33, R-34, R-35, R-36, R-37, R-38, R-39, R-40, R-41, R-42, R-43, R-44, R-45, R-46, R-47, R-48, R-49, R-50, R-51, R-52, R-53, R-54, R-55, R-56, R-57, R-58, R-59, R-60, R-61, R-62, R-63, R-64, R-65, R-66, R-67, R-68, R-69, R-70, R-71, R-72, R-73, R-74, R-75, R-76, R-77, R-78, R-79, R-80, R-81, R-82, R-83, R-84, R-85, R-86, R-87, R-88, R-89, R-90, R-91, R-92, R-93, R-94, R-95, R-96, R-97, R-98, R-99, R-100, R-101, R-102, R-103, R-104, R-105, R-106, R-107, R-108, R-109, R-110, R-111, R-112, R-113, R-114, R-115, R-116, R-117, R-118, R-119, R-120, R-121, R-122, R-123, R-124, R-125, R-126, R-127, R-128, R-129, R-130, R-131, R-132, R-133, R-134, R-135, R-136, R-137, R-138, R-139, R-140, R-141, R-142, R-143, R-144, R-145, R-146, R-147, R-148, R-149, R-150, R-151, R-152, R-153, R-154, R-155, R-156, R-157, R-158, R-159, R-160, R-161, R-162, R-163, R-164, R-165, R-166, R-167, R-168, R-169, R-170, R-171, R-172, R-173, R-174, R-175, R-176, R-177, R-178, R-179, R-180, R-181, R-182, R-183, R-184, R-185, R-186, R-187, R-188, R-189, R-190, R-191, R-192, R-193, R-194, R-195, R-196, R-197, R-198, R-199, R-200, R-201, R-202, R-203, R-204, R-205, R-206, R-207, R-208, R-209, R-210, R-211, R-212, R-213, R-214, R-215, R-216, R-217, R-218, R-219, R-220, R-221, R-222, R-223, R-224, R-225, R-226, R-227, R-228, R-229, R-230, R-231, R-232, R-233, R-234, R-235, R-236, R-237, R-238, R-239, R-240, R-241, R-242, R-243, R-244, R-245, R-246, R-247, R-248, R-249, R-250, R-251, R-252, R-253, R-254, R-255, R-256, R-257, R-258, R-259, R-260, R-261, R-262, R-263, R-264, R-265, R-266, R-267, R-268, R-269, R-270, R-271, R-272, R-273, R-274, R-275, R-276, R-277, R-278, R-279, R-280, R-281, R-282, R-283, R-284, R-285, R-286, R-287, R-288, R-289, R-290, R-291, R-292, R-293, R-294, R-295, R-296, R-297, R-298, R-299, R-300, R-301, R-302, R-303, R-304, R-305, R-306, R-307, R-308, R-309, R-310, R-311, R-312, R-313, R-314, R-315, R-316, R-317, R-318, R-319, R-320, R-321, R-322, R-323, R-324, R-325, R-326, R-327, R-328, R-329, R-330, R-331, R-332, R-333, R-334, R-335, R-336, R-337, R-338, R-339, R-340, R-341, R-342, R-343, R-344, R-345, R-346, R-347, R-348, R-349, R-350, R-351, R-352, R-353, R-354, R-355, R-356, R-357, R-358, R-359, R-360, R-361, R-362, R-363, R-364, R-365, R-366, R-367, R-368, R-369, R-370, R-371, R-372, R-373, R-374, R-375, R-376, R-377, R-378, R-379, R-380, R-381, R-382, R-383, R-384, R-385, R-386, R-387, R-388, R-389, R-390, R-391, R-392, R-393, R-394, R-395, R-396, R-397, R-398, R-399, R-400, R-401, R-402, R-403, R-404, R-405, R-406, R-407, R-408, R-409, R-410, R-411, R-412, R-413, R-414, R-415, R-416, R-417, R-418, R-419, R-420, R-421, R-422, R-423, R-424, R-425, R-426, R-427, R-428, R-429, R-430, R-431, R-432, R-433, R-434, R-435, R-436, R-437, R-438, R-439, R-440, R-441, R-442, R-443, R-444, R-445, R-446, R-447, R-448, R-449, R-450, R-451, R-452, R-453, R-454, R-455, R-456, R-457, R-458, R-459, R-460, R-461, R-462, R-463, R-464, R-465, R-466, R-467, R-468, R-469, R-470, R-471, R-472, R-473, R-474, R-475, R-476, R-477, R-478, R-479, R-480, R-481, R-482, R-483, R-484, R-485, R-486, R-487, R-488, R-489, R-490, R-491, R-492, R-493, R-494, R-495, R-496, R-497, R-498, R-499, R-500, R-501, R-502, R-503, R-504, R-505, R-506, R-507, R-508, R-509, R-510, R-511, R-512, R-513, R-514, R-515, R-516, R-517, R-518, R-519, R-520, R-521, R-522, R-523, R-524, R-525, R-526, R-527, R-528, R-529, R-530, R-531, R-532, R-533, R-534, R-535, R-536, R-537, R-538, R-539, R-540, R-541, R-542, R-543, R-544, R-545, R-546, R-547, R-548, R-549, R-550, R-551, R-552, R-553, R-554, R-555, R-556, R-557, R-558, R-559, R-560, R-561, R-562, R-563, R-564, R-565, R-566, R-567, R-568, R-569, R-570, R-571, R-572, R-573, R-574, R-575, R-576, R-577, R-578, R-579, R-580, R-581, R-582, R-583, R-584, R-585, R-586, R-587, R-588, R-589, R-590, R-591, R-592, R-593, R-594, R-595, R-596, R-597, R-598, R-599, R-600, R-601, R-602, R-603, R-604, R-605, R-606, R-607, R-608, R-609, R-610, R-611, R-612, R-613, R-614, R-615, R-616, R-617, R-618, R-619, R-620, R-621, R-622, R-623, R-624, R-625, R-626, R-627, R-628, R-629, R-630, R-631, R-632, R-633, R-634, R-635, R-636, R-637, R-638, R-639, R-640, R-641, R-642, R-643, R-644, R-645, R-646, R-647, R-648, R-649, R-650, R-651, R-652, R-653, R-654, R-655, R-656, R-657, R-658, R-659, R-660, R-661, R-662, R-663, R-664, R-665, R-666, R-667, R-668, R-669, R-670, R-671, R-672, R-673, R-674, R-675, R-676, R-677, R-678, R-679, R-680, R-681, R-682, R-683, R-684, R-685, R-686, R-687, R-688, R-689, R-690, R-691, R-692, R-693, R-694, R-695, R-696, R-697, R-698, R-699, R-700, R-701, R-702, R-703, R-704, R-705, R-706, R-707, R-708, R-709, R-710, R-711, R-712, R-713, R-714, R-715, R-716, R-717, R-718, R-719, R-720, R-721, R-722, R-723, R-724, R-725, R-726, R-727, R-728, R-729, R-730, R-731, R-732, R-733, R-734, R-735, R-736, R-737, R-738, R-739, R-740, R-741, R-742, R-743, R-744, R-745, R-746, R-747, R-748, R-749, R-750, R-751, R-752, R-753, R-754, R-755, R-756, R-757, R-758, R-759, R-760, R-761, R-762, R-763, R-764, R-765, R-766, R-767, R-768, R-769, R-770, R-771, R-772, R-773, R-774, R-775, R-776, R-777, R-778, R-779, R-780, R-781, R-782, R-783, R-784, R-785, R-786, R-787, R-788, R-789, R-790, R-791, R-792, R-793, R-794, R-795, R-796, R-797, R-798, R-799, R-800, R-801, R-802, R-803, R-804, R-805, R-806, R-807, R-808, R-809, R-810, R-811, R-812, R-813, R-814, R-815, R-816, R-817, R-818, R-819, R-820, R-821, R-822, R-823, R-824, R-825, R-826, R-827, R-828, R-829, R-830, R-831, R-832, R-833, R-834, R-835, R-836, R-837, R-838, R-839, R-840, R-841, R-842, R-843, R-844, R-845, R-846, R-847, R-848, R-849, R-850, R-851, R-852, R-853, R-854, R-855, R-856, R-857, R-858, R-859, R-860, R-861, R-862, R-863, R-864, R-865, R-866, R-867, R-868, R-869, R-870, R-871, R-872, R-873, R-874, R-875, R-876, R-877, R-878, R-879, R-880, R-881, R-882, R-883, R-884, R-885, R-886, R-887, R-888, R-889, R-890, R-891, R-892, R-893, R-894, R-895, R-896, R-897, R-898, R-899, R-900, R-901, R-902, R-903, R-904, R-905, R-906, R-907, R-908, R-909, R-910, R-911, R-912, R-913, R-914, R-915, R-916, R-917, R-918, R-919, R-920, R-921, R-922, R-923, R-924, R-925, R-926, R-927, R-928, R-929, R-930, R-931, R-932, R-933, R-934, R-935, R-936, R-937, R-938, R-939, R-940, R-941, R-942, R-943, R-944, R-945, R-946, R-947, R-948, R-949, R-950, R-951, R-952, R-953, R-954, R-955, R-956, R-957, R-958, R-959, R-960, R-961, R-962, R-963, R-964, R-965, R-966, R-967, R-968, R-969, R-970, R-971, R-972, R-973, R-974, R-975, R-976, R-977, R-978, R-979, R-980, R-981, R-982, R-983, R-984, R-985, R-986, R-987, R-988, R-989, R-990, R-991, R-992, R-993, R-994, R-995, R-996, R-997, R-998, R-999, R-1000, R-1001, R-1002, R-1003, R-1004, R-1005, R-1006, R-1007, R-1008, R-1009, R-1010, R-1011, R-1012, R-1013, R-1014, R-1015, R-1016, R-1017, R-1018, R-1019, R-1020, R-1021, R-1022, R-1023, R-1024, R-1025, R-1026, R-1027, R-1028, R-1029, R-1030, R-1031, R-1032, R-1033, R-1034, R-1035, R-1036, R-1037, R-1038, R-1039, R-1040, R-1041, R-1042, R-1043, R-1044, R-1045, R-1046, R-1047, R-1048, R-1049, R-1050, R-1051, R-1052, R-1053, R-1054, R-1055, R-1056, R-1057, R-1058, R-1059, R-1060, R-1061, R-1062, R-1063, R-1064, R-1065, R-1066, R-1067, R-1068, R-1069, R-1070, R-1071, R-1072, R-1073, R-1074, R-1075, R-1076, R-1077, R-1078, R-1079, R-1080, R-1081, R-1082, R-1083, R-1084, R-1085, R-1086, R-1087, R-1088, R-1089, R-1090, R-1091, R-1092, R-1093, R-1094, R-1095, R-1096, R-1097, R-1098, R-1099, R-1100, R-1101, R-1102, R-1103, R-1104, R-1105, R-1106, R-1107, R-1108, R-1109, R-1110, R-1111, R-1112, R-1113, R-1114, R-1115, R-1116, R-1117, R-1118, R-1119, R-1120, R-1121, R-1122, R-1123, R-1124, R-1125, R-1126, R-1127, R-1128, R-1129, R-1130, R-1131, R-1132, R-1133, R-1134, R-1135, R-1136, R-1137, R-1138, R-1139, R-1140, R-1141, R-1142, R-1143, R-1144, R-1145, R-1146, R-1147, R-1148, R-1149, R-1150, R-1151, R-1152, R-1153, R-1154, R-1155, R-1156, R-1157, R-1158, R-1159, R-1160, R-1161, R-1162, R-1163, R-1164, R-1165, R-1166, R-1167, R-1168, R-1169, R-1170, R-1171, R-1172, R-1173, R-1174, R-1175, R-1176, R-1177, R-1178, R-1179, R-1180, R-1181, R-1182, R-1183, R-1184, R-1185, R-1186, R-1187, R-1188, R-1189, R-1190, R-1191, R-1192, R-1193, R-1194, R-1195, R-1196, R-1197, R-1198, R-1199, R-1200, R-1201, R-1202, R-1203, R-1204, R-1205, R-1206, R-1207, R-1208, R-1209, R-1210, R-1211, R-1212, R-1213, R-1214, R-1215, R-1216, R-1217, R-1218, R-1219, R-1220, R-1221, R-1222, R-1223, R-1224, R-1225, R-1226, R-1227, R-1228, R-1229, R-1230, R-1231, R-1232, R-1233, R-1234, R-1235, R-1236, R-1237, R-1238, R-1239, R-1240, R-1241, R-1242, R-1243, R-1244, R-1245, R-1246, R-1247, R-1248, R-1249, R-1250, R-1251, R-1252, R-1253, R-1254, R-1255, R-1256, R-1257, R-1258, R-1259, R-1260, R-1261, R-1262, R-1263, R-1264, R-1265, R-1266, R-1267, R-1268, R-1269, R-1270, R-1271, R-1272, R-1273, R-1274, R-1275, R-1276, R-1277, R-1278, R-1279, R-1280, R-1281, R-1282, R-1283, R-1284, R-1285, R-1286, R-1287, R-1288, R-1289, R-1290, R-1291, R-1292, R-1293, R-1294, R-1295, R-1296, R-1297, R-1298, R-1299, R-1300, R-1301, R-1302, R-1303, R-1304, R-1305, R-1306, R-1307, R-1308, R-1309, R-1310, R-1311, R-1312, R-1313, R-1314, R-1315, R-1316, R-1317, R-1318, R-1319, R-1320, R-1321, R-1322, R-1323, R-1324, R-1325, R-1326, R-1327, R-1328, R-1329, R-1330, R-1331, R-1332, R-1333, R-1334, R-1335, R-1336, R-1337, R-1338, R-1339, R-1340, R-1341, R-1342, R-1343, R-1344, R-1345, R-1346, R-1347, R-1348, R-1349, R-1350, R-1351, R-1352, R-1353, R-1354, R-1355, R-1356, R-1357, R-1358, R-1359, R-1360, R-1361, R-1362, R-1363, R-1364, R-1365, R-1366, R-1367, R-1368, R-1369, R-1370, R-1371, R-1372, R-1373, R-1374, R-1375, R-1376, R-1377, R-1378, R-1379, R-1380, R-1381, R-1382, R-1383, R-1384, R-1385, R-1386, R-1387, R-1388, R-1389, R-1390, R-1391, R-1392, R-1393, R-1394, R-1395, R-1396, R-1397, R-1398, R-1399, R-1400, R-1401, R-1402, R-1403, R-1404, R-1405, R-1406, R-1407, R-1408, R-1409, R-1410, R-1411, R-1412, R-1413, R-1414, R-1415, R-1416, R-1417, R-1418, R-1419, R-1420, R-1421, R-1422, R-1423, R-1424, R-1425, R-1426, R-1427, R-1428, R-1429, R-1430, R-1431, R-1432, R-1433, R-1434, R-1435, R-1436, R-1437, R-1438, R-1439, R-1440, R-1441, R-1442, R-1443, R-1444, R-1445, R-1446, R-1447, R-1448, R-1449, R-1450, R-1451, R-1452, R-1453, R-1454, R-1455, R-1456, R-1457, R-1458, R-1459, R-1460, R-1461, R-1462, R-1463, R-1464, R-1465, R-1466, R-1467, R-1468, R-1469, R-1470, R-1471, R-1472, R-1473, R-1474, R-1475, R-1476, R-1477, R-1478, R-1479, R-1480, R-1481, R-1482, R-1483, R-1484, R-1485, R-1486, R-1487, R-1488, R-1489, R-1490, R-1491, R-1492, R-1493, R-1494, R-1495, R-1496, R-1497, R-1498, R-1499, R-1500, R-1501, R-1502

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

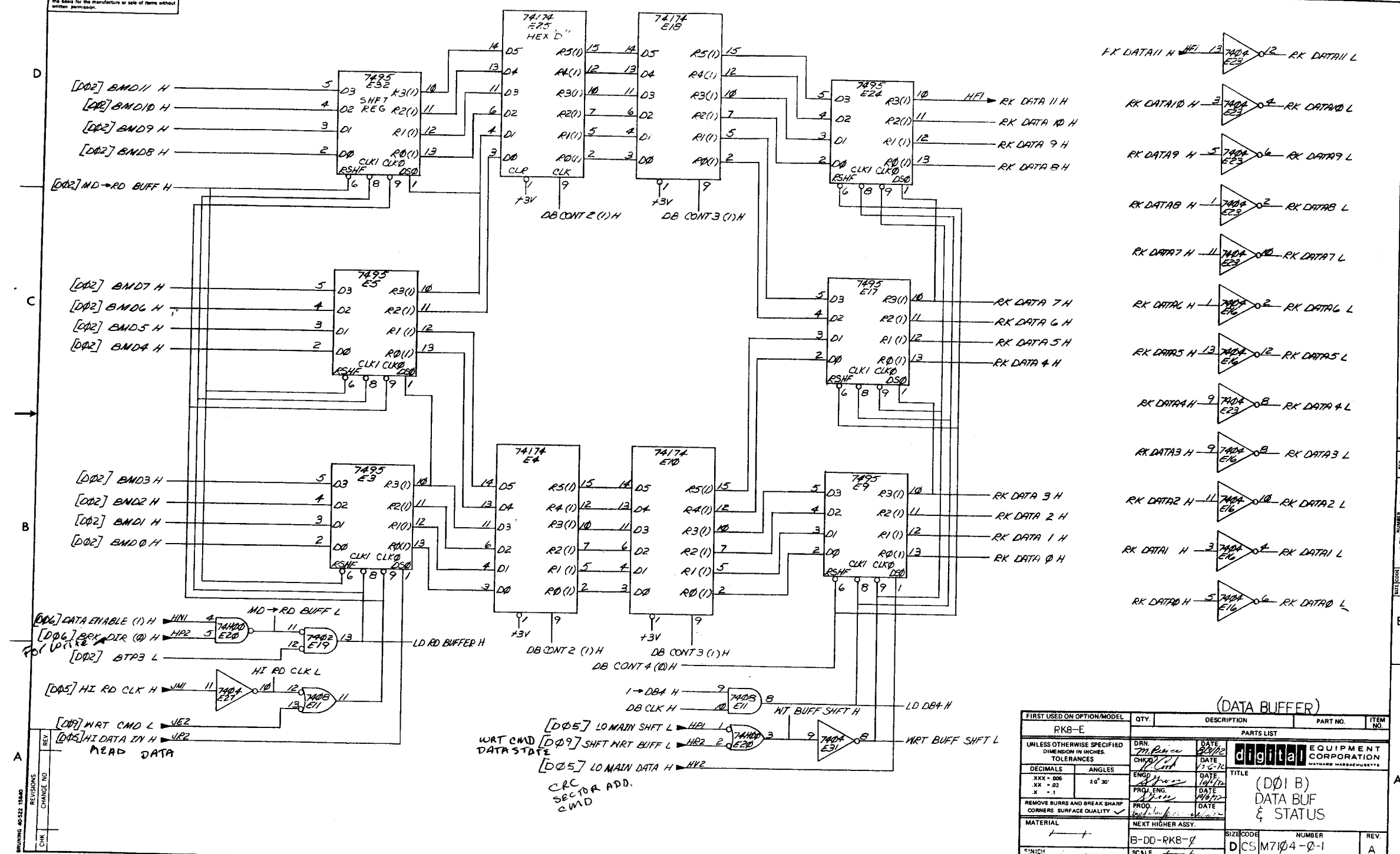


| | |
|-------------|--|
| REV | |
| CHANGE NO | |
| DATE | |
| BY | |
| CHK | |
| DESIGNED BY | |
| DWG NO | |
| DATE | |
| BY | |
| CHK | |
| DESIGNED BY | |
| DWG NO | |
| DATE | |
| BY | |
| CHK | |

| (DATA BUFFER CONTROL) | | | |
|--|---------|--------------------------------|----------|
| FIRST USED ON OPTION/MODEL | QTY. | DESCRIPTION | PART NO. |
| RKB-E | | | |
| UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES | | | |
| DECIMALS | ANGLES | TITLE (D01A) DATA BUF & STATUS | |
| XXX + .005 | ±0° 30' | DATE 10-19-72 | |
| .XX + .02 | | DATE 10-19-72 | |
| .X + .1 | | DATE 10-19-72 | |
| REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY | | | |
| MATERIAL | | | |
| NEXT HIGHER ASSY. | | | |
| B-UD-RKB-0 | | SIZE CODE | NUMBER |
| SCALE 1/1 | | DCSM7104-0-1 | |
| SHEET 3 OF 3 | | REV A | |

REV A

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or used in whole or in part as the basis for the manufacture or sale of items without written permission.



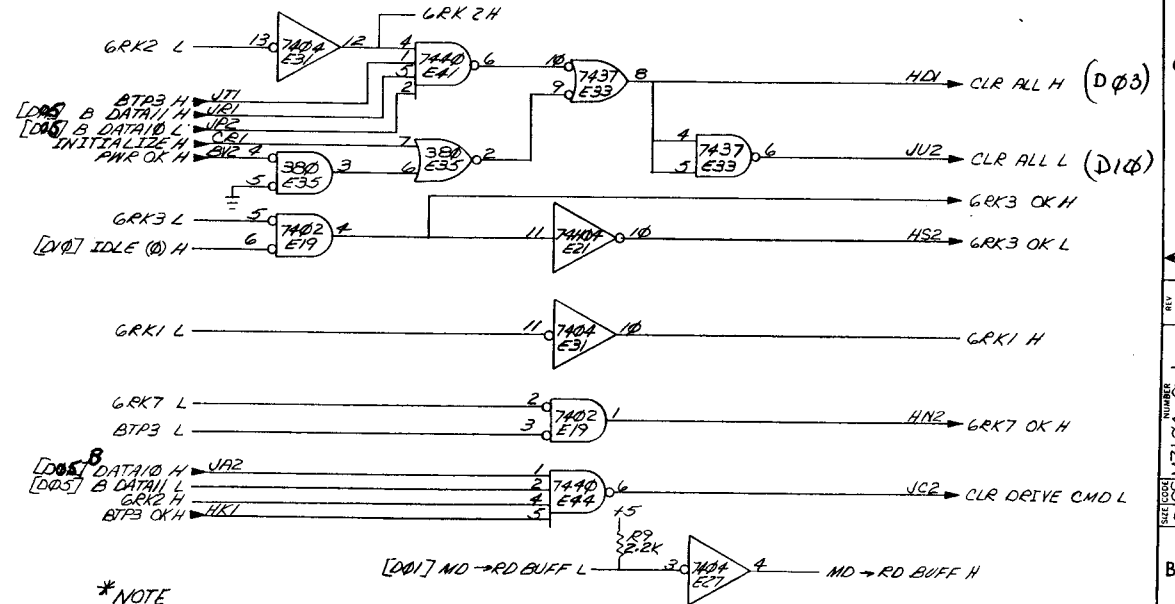
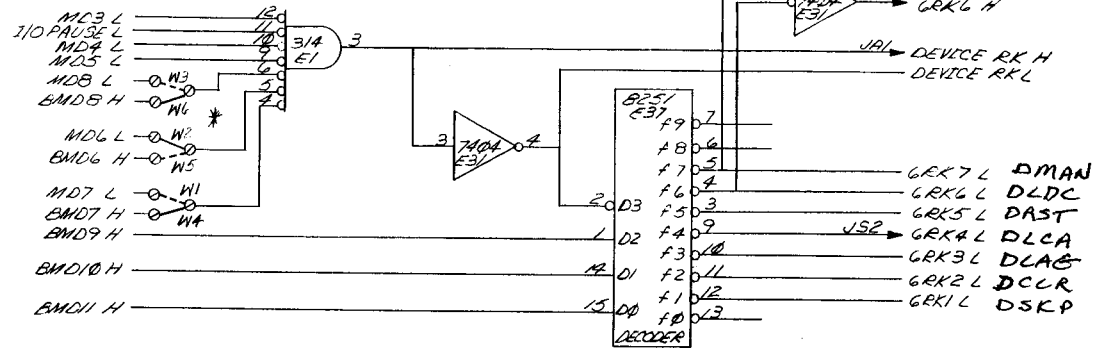
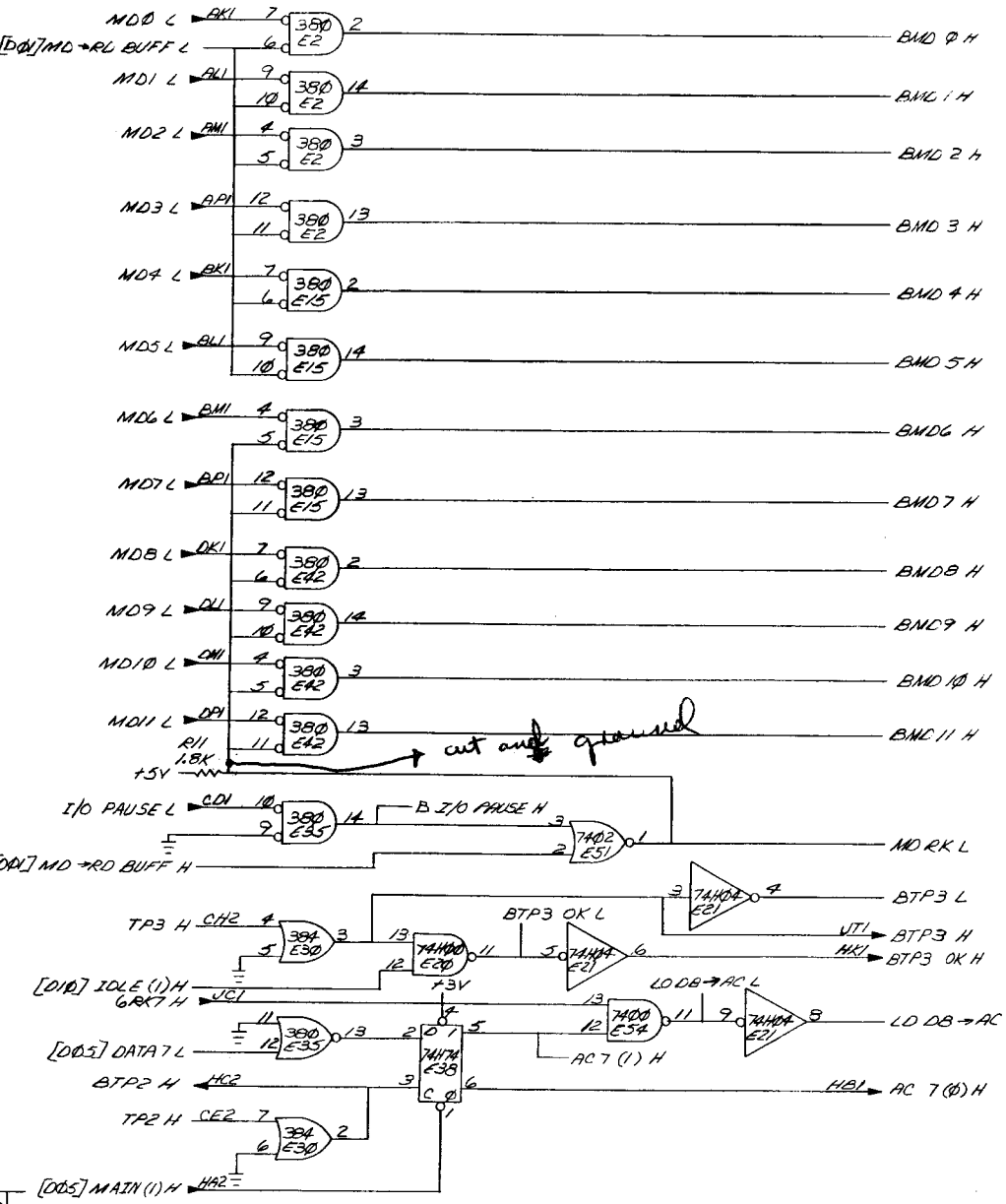
(DATA BUFFER)

| FIRST USED ON OPTION/MODEL | QTY. | DESCRIPTION | PART NO. | ITEM NO. |
|--|---------|---------------------------------|----------|----------|
| RK8-E | | | | |
| PARTS LIST | | | | |
| UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. | | TOLERANCES | | |
| DECIMALS | ANGLES | TITLE | | |
| .XXX - .005 | ±0° 30' | (D01 B) DATA BUF & STATUS | | |
| .XX - .02 | | | | |
| .X - .1 | | | | |
| REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY | | PROD. ENG. | DATE | |
| MATERIAL | | PROD. | DATE | |
| NEXT HIGHER ASSY. | | SIZE CODE | | |
| B-DD-RK8-0 | | NUMBER | | REV. |
| SCALE | | DCS M7104-0-1 | | A |
| SHEET 4 OF 7 | | DIST. | | |

REV. 1
CHANGE NO.
DEC FORM NO. DRD 102-B

DCS M7104-0-1

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.



*NOTE
 IOT 674X AS SHOWN
 VALID IOT'S ARE
 674X
 675X
 676X
 677X

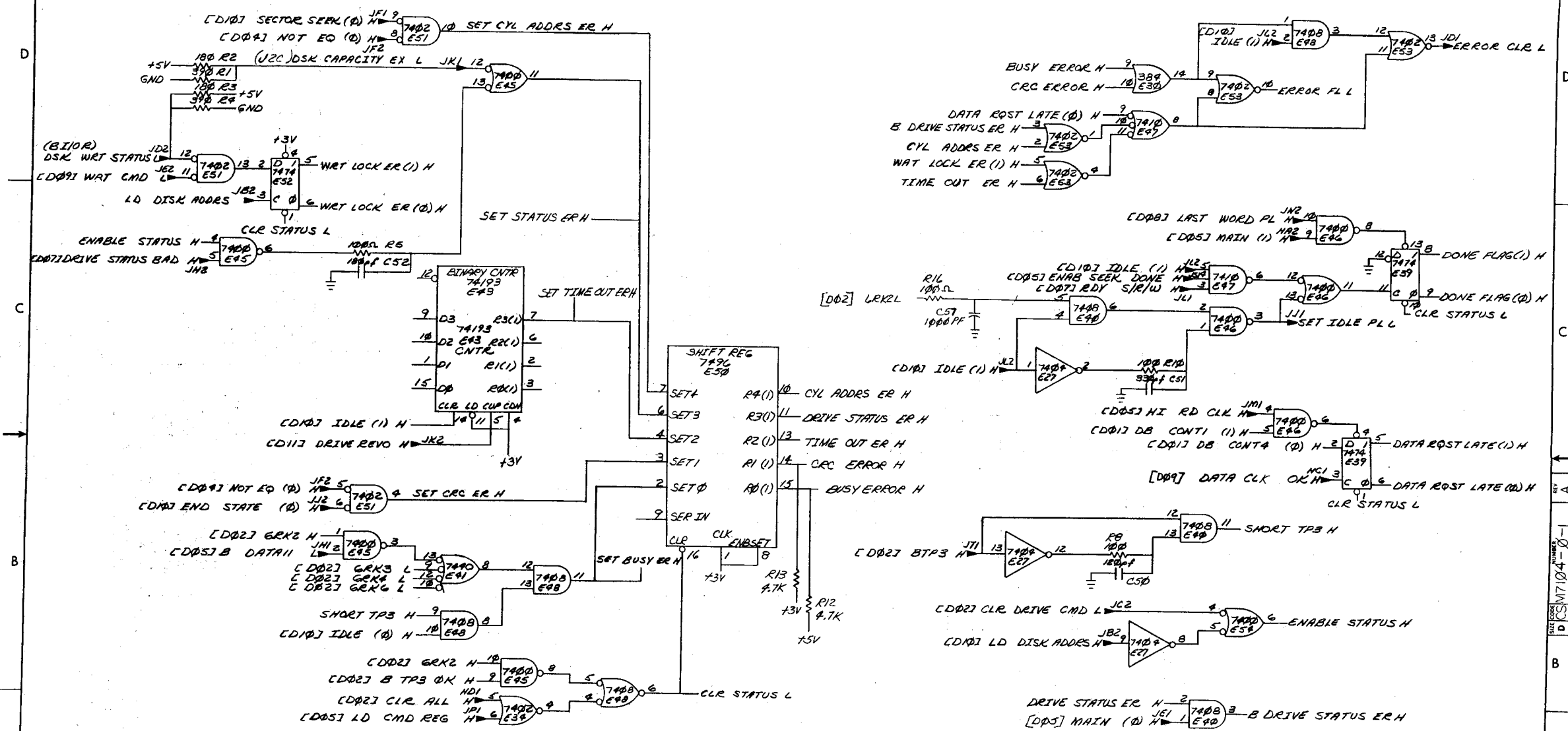
(OMNIEUS RECEIVERS)

| FIRST USED ON OPTION/MODEL | QTY. | DESCRIPTION | PART NO. | ITEM NO. |
|--|---------|-------------------|-----------|--|
| RK8-E | | | | |
| PARTS LIST | | | | |
| UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. | | DRN | DATE | digital EQUIPMENT CORPORATION MILFORD MASSACHUSETTS |
| TOLERANCES | | CHK'D | DATE | |
| DECIMALS | ANGLES | ENG | DATE | TITLE (D02 B) DATA BUF & STATUS |
| .XXX - .005 | ±0° 30' | PROJ. ENG | DATE | |
| .XX - .02 | | PROD. DATE | DATE | |
| .X - .1 | | PROD. DATE | DATE | |
| REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY | | | | |
| MATERIAL | | NEXT HIGHER ASSY. | | |
| ++ | | B-DD-RK8-0 | SIZE CODE | NUMBER |
| FINISH | | ++ | SCALE | REV |
| | | 6 OF - | DIST | 2 |

BRUNING 40-332 15840
 DYC FORM NO
 DRD 102-B

REV A
 NUMBER
 DCS M7104-0-1

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.



(STATUS REGISTER ERROR DETECT)

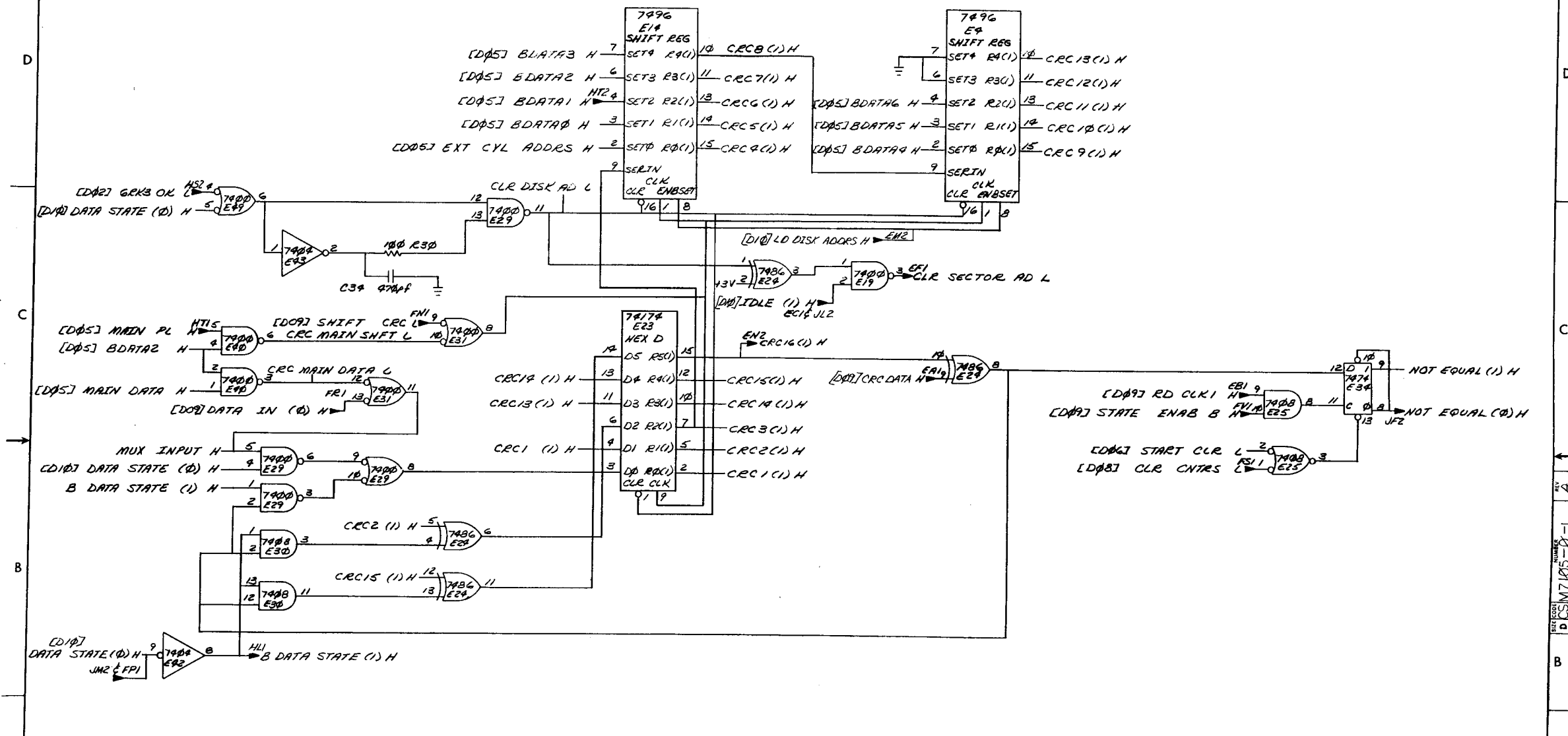
| FIRST USED ON OPTION/MODEL | QTY. | DESCRIPTION | PART NO. | ITEM NO. | | | | | | | | | | | | | | | | | | | | |
|---|---------|---|----------|--------------|-----|--------|------|--------|-------|-----|------|--------|------|------|------|---------|------------|------|------|---------|-------|------|------|---------|
| RK8-E | | | | | | | | | | | | | | | | | | | | | | | | |
| UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES | | | | | | | | | | | | | | | | | | | | | | | | |
| DECIMALS | ANGLES | PARTS LIST | | | | | | | | | | | | | | | | | | | | | | |
| XXX - .005 | ±0° 30' | <table border="1"> <tr> <td>DRN</td> <td>akibat</td> <td>DATE</td> <td>7-4-72</td> </tr> <tr> <td>CHK'D</td> <td>llb</td> <td>DATE</td> <td>7-6-72</td> </tr> <tr> <td>ENG.</td> <td>Shaw</td> <td>DATE</td> <td>7-17-72</td> </tr> <tr> <td>PROJ. ENG.</td> <td>Shaw</td> <td>DATE</td> <td>10/6/72</td> </tr> <tr> <td>PROD.</td> <td>Shaw</td> <td>DATE</td> <td>10/6/72</td> </tr> </table> | | | DRN | akibat | DATE | 7-4-72 | CHK'D | llb | DATE | 7-6-72 | ENG. | Shaw | DATE | 7-17-72 | PROJ. ENG. | Shaw | DATE | 10/6/72 | PROD. | Shaw | DATE | 10/6/72 |
| DRN | akibat | DATE | 7-4-72 | | | | | | | | | | | | | | | | | | | | | |
| CHK'D | llb | DATE | 7-6-72 | | | | | | | | | | | | | | | | | | | | | |
| ENG. | Shaw | DATE | 7-17-72 | | | | | | | | | | | | | | | | | | | | | |
| PROJ. ENG. | Shaw | DATE | 10/6/72 | | | | | | | | | | | | | | | | | | | | | |
| PROD. | Shaw | DATE | 10/6/72 | | | | | | | | | | | | | | | | | | | | | |
| REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓ | | | | | | | | | | | | | | | | | | | | | | | | |
| MATERIAL | | | | | | | | | | | | | | | | | | | | | | | | |
| NEXT HIGHER ASSY. | | | | | | | | | | | | | | | | | | | | | | | | |
| B-01-RK8-0 | | SIZE CODE | NUMBER | REV. | | | | | | | | | | | | | | | | | | | | |
| FINISH | | SCALE | D | CS M7104-0-1 | | | | | | | | | | | | | | | | | | | | |
| SHEET 7 OF 7 | | DIST. | | A | | | | | | | | | | | | | | | | | | | | |

BRUNING 40-521 15-640
DEC FORM NO 13RD 103-B

| REV. | NO. | DATE |
|------|-----|--------|
| 1 | 1 | 7-7-72 |
| 2 | 1 | 7-7-72 |

REV A
ITEM NO. CS M7104-0-1

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.



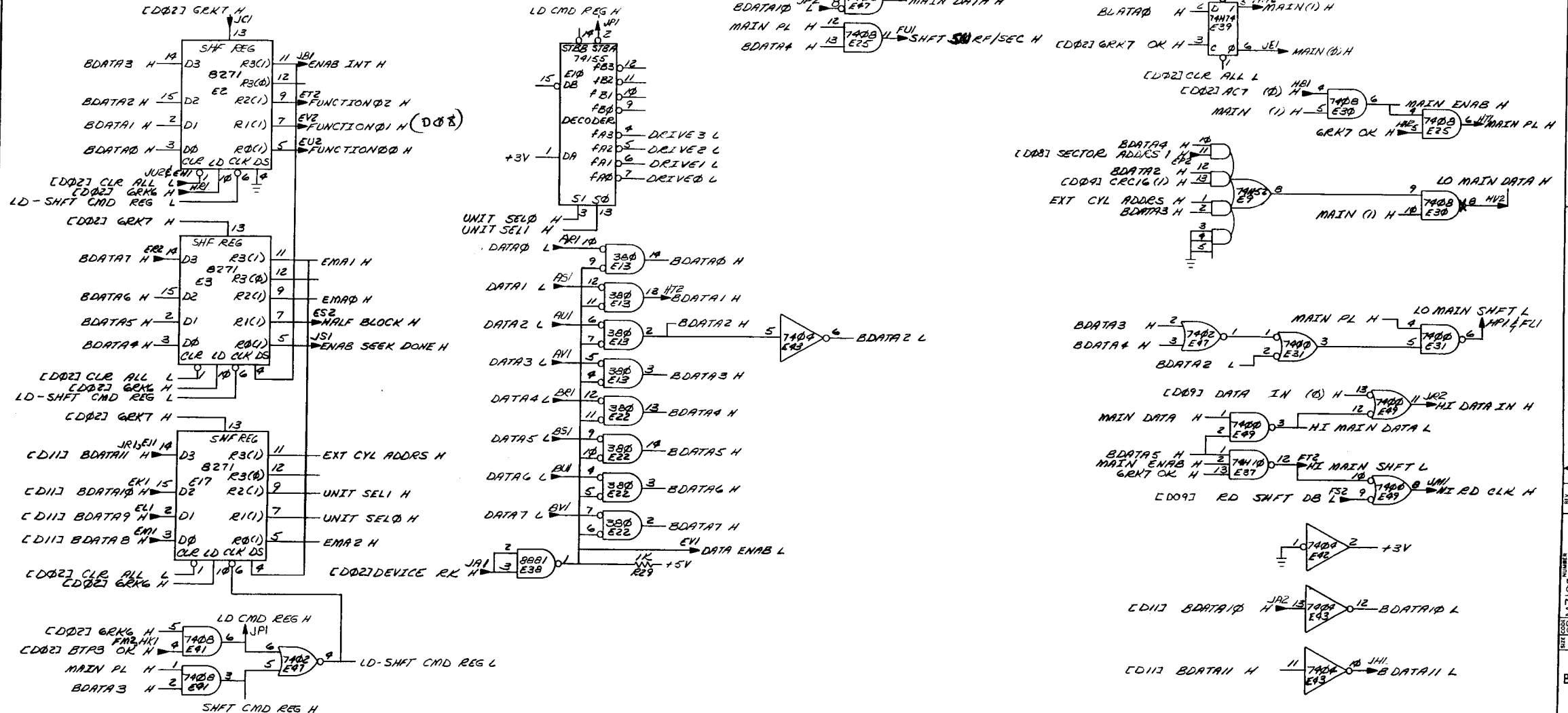
(CRC/DISK ADDRESS REG)

REV. 1
REV. 2
REV. 3

| FIRST USED ON OPTION/MODEL | QTY. | DESCRIPTION | PART NO. | ITEM NO. |
|--|--------------------|----------------|--|----------|
| RK8-E | | | | |
| PARTS LIST | | | | |
| UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. | DRN: <i>ad/ent</i> | DATE: 6/3/72 | DIGITAL EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS | |
| TOLERANCES | CHKD. | DATE: 1/2-72 | TITLE: (D04) MAJOR REGISTERS | |
| DECIMALS | ENG. | DATE: 12/17/71 | D04 | |
| ANGLES | PROJ. ENG. | DATE: 10/17/71 | D CS M7105-0-1 | |
| .XXX - .005 | PROD. | DATE: 10/17/71 | D04 | |
| .XX - .02 | | | | |
| .X - .1 | | | | |
| REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY | | | | |
| MATERIAL | NEXT HIGHER ASSY. | | SIZE/SCALE | NUMBER |
| | D-UA-RK8-E-0 | | D CS M7105-0-1 | REV. A |
| FINISH | SCALE | | SHEET 3 OF | |

REV. A
NUMBERS
CSM7105-0-1

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the base for the manufacture or sale of items without written permission.

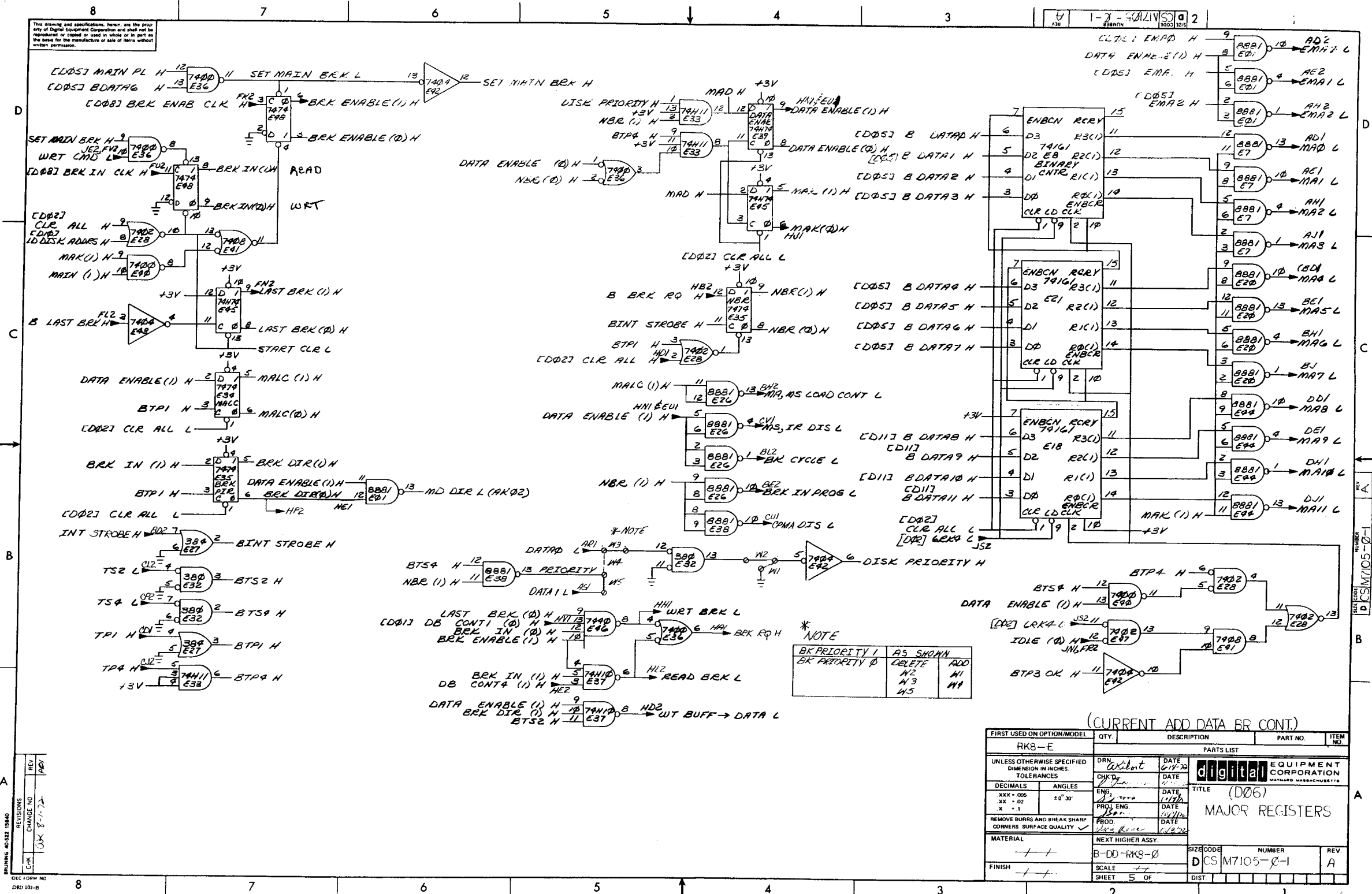


(COMMAND REG. MAINT. LOGIC)

| FIRST USED ON OPTION/MODEL | QTY. | DESCRIPTION | PART NO. | ITEM NO. |
|---|-------------------------------|---------------------|--|----------|
| RKB-E | | | | |
| PARTS LIST | | | | |
| UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES | DRN. <i>Wilkert</i> | DATE <i>6-13-71</i> | digital EQUIPMENT CORPORATION <small>MAYNARD MASSACHUSETTS</small> TITLE (D05) MAJOR REGISTER | |
| DECIMALS | CHK'D. <i>[Signature]</i> | DATE <i>6-13-71</i> | | |
| ANGLES | ENG. <i>[Signature]</i> | DATE <i>6-13-71</i> | | |
| .XXX - .006 .XX - .02 .X - .1 | PROJ. ENG. <i>[Signature]</i> | DATE <i>6-13-71</i> | | |
| REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓ | PROD. <i>[Signature]</i> | DATE <i>6-13-71</i> | | |
| MATERIAL | NEXT HIGHER ASSY. | SIZE CODE | NUMBER | REV. |
| | B-DD-RKB-0 | D | CS M7105-0-1 | A |
| FINISH | SCALE | SHEET | DIST. | |
| | 4 OF 6 | | | |

BRUNING 65-522 15840
 REVISIONS
 CHANGE NO. REV. P41
 CHK. CLK 5-1-72
 DET. FORM NO. DRD 102-B

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.



BRUNING 40-522 10840
 DEC FORM NO DRD 101-B
 REVISIONS
 C-1K CHANGE NO 1008-7-72
 REV 100

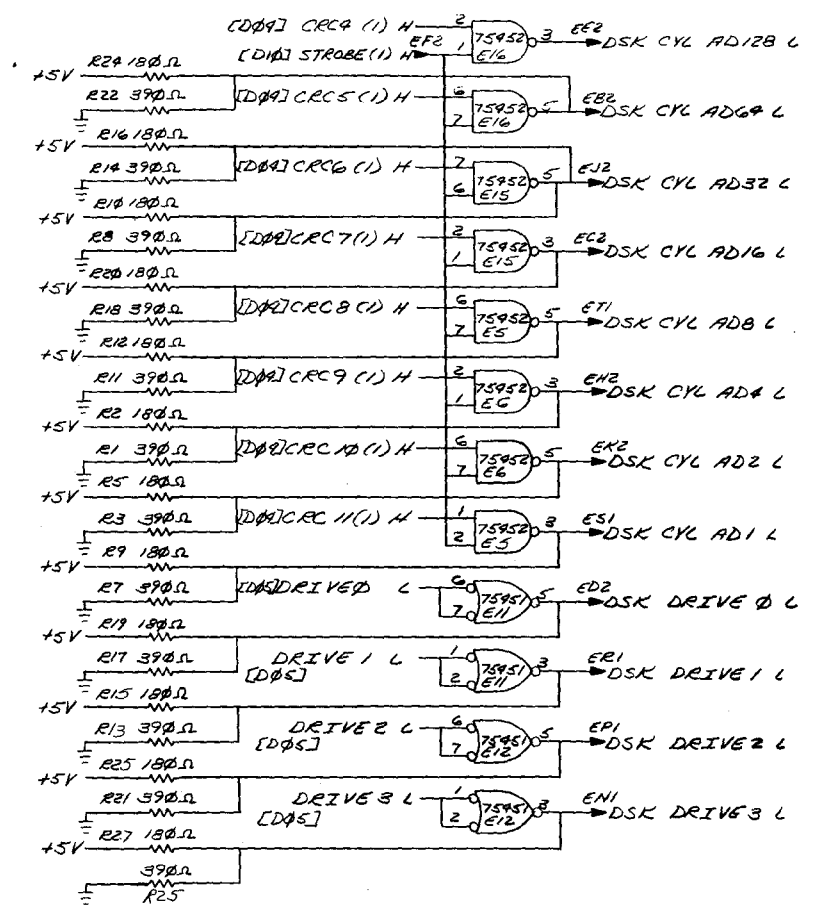
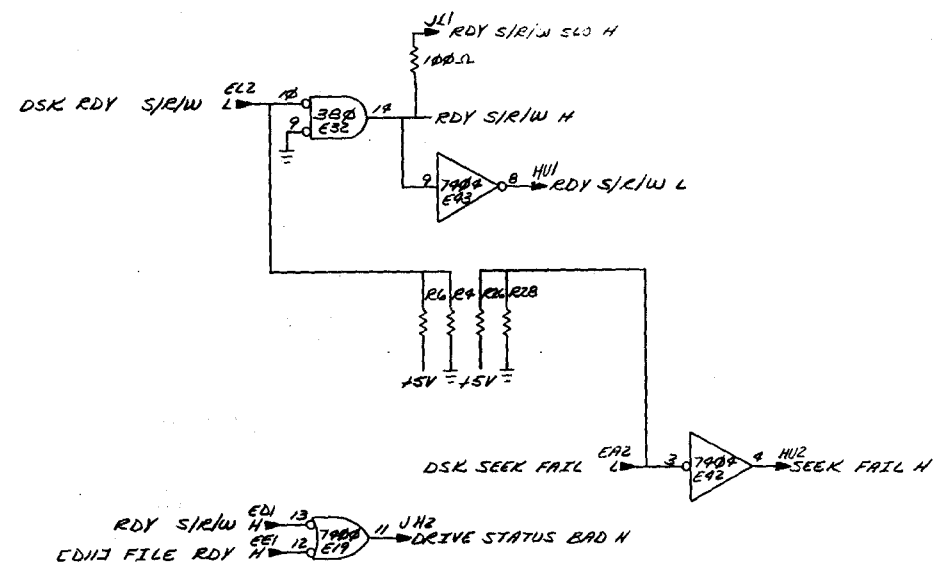
* NOTE

| | | |
|----------------|----------|-----|
| BRK PRIORITY 1 | AS SHOWN | |
| BRK PRIORITY 0 | DELETE | ADD |
| | N2 | N1 |
| | N3 | N4 |
| | N5 | |

(CURRENT ADD DATA BR CONT.)

| | | | | |
|---|------------------------|---------------------|--------------------------------|----------|
| FIRST USED ON OPTION/MODEL | QTY. | DESCRIPTION | PART NO. | ITEM NO. |
| RK8-E | | | | |
| PARTS LIST | | | | |
| UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES | DRN <i>Walent</i> | DATE <i>6/18/70</i> | | |
| DECIMALS | CHK'D | DATE | | |
| ANGLES | ENG <i>J.P.</i> | DATE <i>1/17/70</i> | TITLE (D06) MAJOR REGISTERS | |
| XXX - 005 .XX - 02 X - 1 | PROJ. ENG. <i>J.P.</i> | DATE <i>6/11/70</i> | | |
| REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY | PROD. <i>John Rose</i> | DATE <i>6/18/70</i> | | |
| MATERIAL | NEXT HIGHER ASSY. | SIZE CODE | NUMBER | REV. |
| FINISH | B-DD-RK8-0 | DCS | M7105-0-1 | A |
| SCALE | SHEET 5 OF | DIST. | | |

All drawings and specifications herein are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.



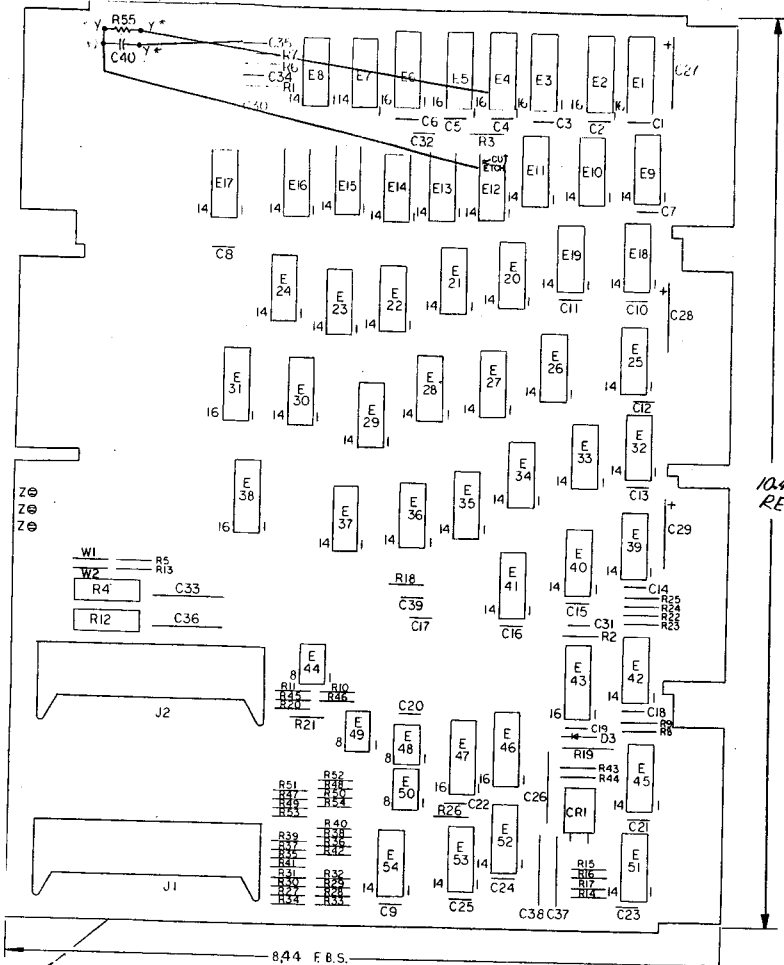
(DRIVE SIGNALS CABLE J1)

| FIRST USED ON OPTION/MODEL | QTY. | DESCRIPTION | PART NO. | ITEM NO. |
|--|-------------------|----------------------|---------------------|---|
| RK8-E | | | | |
| PARTS LIST | | | | |
| UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. | | DRN. <i>ak</i> | DATE <i>6-17-72</i> | digital EQUIPMENT CORPORATION LITTLEFORD, MASSACHUSETTS |
| TOLERANCES | | CHK'D <i>js</i> | DATE <i>6-17-72</i> | |
| DECIMALS | ANGLES | ENG. <i>js</i> | DATE <i>6/17/72</i> | TITLE (D07) MAJOR REGISTERS |
| XXX - .005 | 50° 30' | PROJ. ENG. <i>js</i> | DATE <i>6/17/72</i> | |
| REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY | | PROD. <i>js</i> | DATE <i>6/17/72</i> | |
| MATERIAL | NEXT HIGHER ASSY. | SIZE | CODE | NUMBER |
| FINISH | B-DI-RKS-0 | D | CS | M7105-0-1 |
| SCALE | | SHEET | 6 OF | REV. <i>A</i> |

BRUNING 40-522 15840
REVISIONS
CHANGE NO. REV. BY
1 OK J-1-72 PBI

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

NOTES:



| | | | | |
|----|--|-----------------------------------|-----------------|----|
| 1 | E46 | I.C. TYPE 7496 | 1910363 | 41 |
| 1 | E47 | I.C. TYPE 7485 | 1910224 | 40 |
| 9 | E15, E18 THRU E22, E24, E37, E41 | I.C. TYPE 7474 | 1905547 | 39 |
| 1 | E28 | I.C. TYPE 74152 | 1909061 | 38 |
| 1 | E10 | I.C. TYPE 74110 | 1909057 | 37 |
| 2 | E38, E39 | I.C. TYPE 7410 | 1905576 | 36 |
| 2 | E16, E32 | I.C. TYPE 7408 | 1910155 | 35 |
| 5 | E42, E51 THRU E54 | I.C. TYPE 380 | 1909485 | 34 |
| 2 | E11, E7 | I.C. TYPE 7404 | 1909931 | 33 |
| 3 | E9, E35, E36 | I.C. TYPE 7404 | 1909686 | 32 |
| 6 | E13, E23, C2, E28, C30, E40 | I.C. TYPE 7402 | 1909004 | 31 |
| 8 | E8, E12, E41, E25, E23, E33, E45 | I.C. TYPE 7400 | 1905575 | 30 |
| 6 | E1 THRU E6 | I.C. TYPE 74161 | 1910650 | 29 |
| 4 | E44, E48 THRU E50 | I.C. TYPE 75452 | 1910645 | 28 |
| 1 | C21 | CRYSTAL, 2.88 MHz | 1810694-3 | 27 |
| 2 | R4, R12 | POTENTIOMETER, 10K, 1/4W, 76AE | 1309163-10 | 26 |
| 1 | R19 | RESISTOR, 20K, 1/4W, MF | 1309418 | 25 |
| 6 | R6, R9, R6, E7, E18, R55 | RESISTOR, 10K, 5%, 1/4W, CC | 1300229 | 24 |
| 1 | R13 | RESISTOR, 20K, 5%, 1/4W, CC | 1302391 | 23 |
| 3 | R5, R15, R17 | RESISTOR, 10K, 5%, 1/4W, CC | 1300479 | 22 |
| 1 | R2 | RESISTOR, 5K, 5%, 1/4W, CC | 1301874 | 21 |
| 1 | R44 | RESISTOR, 3K, 5%, 1/4W, CC | 1300432 | 20 |
| 4 | R8, R9, R26, R43 | RESISTOR, 1K, 5%, 1/4W, CC | 1300365 | 19 |
| 2 | R16, R16 | RESISTOR, 470Ω, 5%, 1/4W, CC | 1300316 | 18 |
| 17 | R11, R20, R23, R25, R27, R30, R31, R33, R35, C37, R38, R41, R42, R43, R45, R51, R53 | RESISTOR, 390Ω, 5%, 1/4W, CC | 1300309 | 17 |
| 17 | R14, R21, R22, R24, R28, R29, R32, R34, R36, R39, R40, R42, R44, R46, R48, R50, R52, R54 | RESISTOR, 180Ω, 5%, 1/4W, CC | 1301322 | 16 |
| 1 | D3 | DIODE D664 | 1100114 | 15 |
| 2 | C33, C36 | CAPACITOR, .022μF, 100V, NYLON | 1002323 | 14 |
| 3 | C37, C38, C26 | CAPACITOR, 470pF, 100V, NYLON | 1009312 | 13 |
| 1 | C31 | CAPACITOR, 100pF, 100V, 5%, DM | 1000006 | 12 |
| 1 | C32 | CAPACITOR, 500pF, 100V, 5%, DM | 1000027 | 11 |
| 2 | C34, C39 | CAPACITOR, 500pF, 100V, 5%, DM | 1000025 | 10 |
| 1 | C35 | CAPACITOR, 330pF, 100V, 5%, DM | 1000023 | 9 |
| 1 | C30 | CAPACITOR, 100pF, 100V, 5%, DM | 1000020 | 8 |
| 3 | C27 THRU C29 | CAPACITOR, 6.8μF, 35V, 20%, TANT | 1000067 | 7 |
| 25 | C1 THRU C25 | CAPACITOR, .01μF, 100V, 20%, DISC | 1001610 | 6 |
| 3 | TP1 THRU TP3 | SPLIT LUG | 9006735 | 5 |
| 1 | | ETCHED CIRCUIT BOARD | 5010066 | 4 |
| 1 | | MODULE ECO HISTORY | B-M-N-T-106-0-3 | 3 |
| 1 | | ASSY DRILLING HOLE LAYOUT | D-M-N-T-106-0-5 | 2 |
| 1 | | X-Y COORDINATE HOLE LOCATION | K-C-M-T-106-0-4 | 1 |

| | | | | |
|----|----------|---------------------------|------------|--------|
| 1 | C40 | CAPACITOR 470PF, 100V, 5% | 1000024 | 48 |
| AR | | #30AWG WIRE, SOLID GREEN | 9105740-55 | 47 |
| 4 | | GRIPLETS | 1210244-0 | 46 |
| AW | W1, W2 | INSULATED JUMPER | 9009185 | 45 |
| 2 | J1, J2 | CONN. 40 RT ANGLE | 1209941 | 44 REF |
| 1 | E31 | I.C. TYPE 74155 | 1910656 | 43 REF |
| 2 | E38, E43 | I.C. TYPE 74123 | 1910436 | 42 REF |

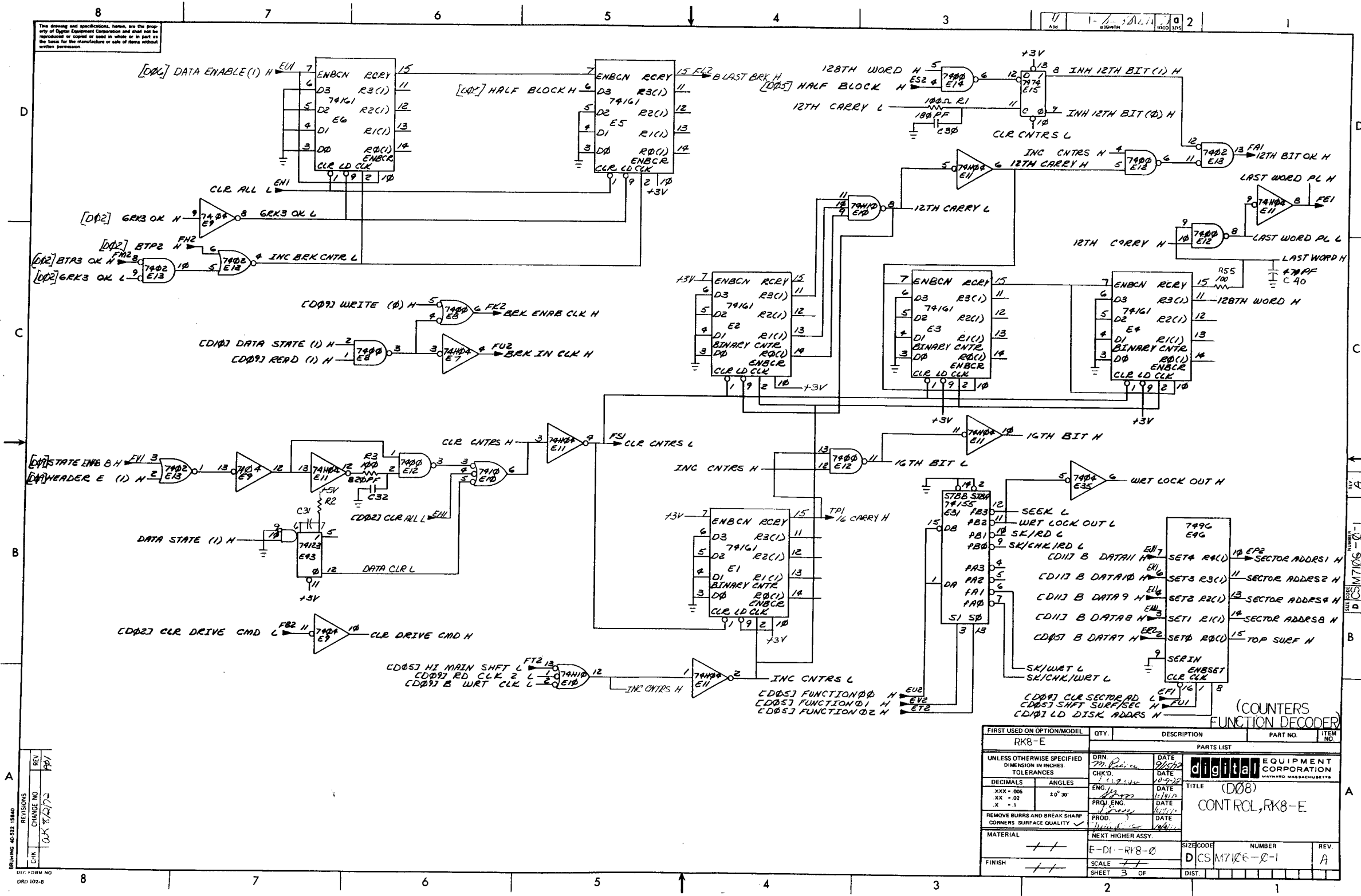
| | | |
|-----------|-----|------|
| DEC 380 | 1 | 8 |
| DEC 7485 | 8 | 16 |
| DEC 7496 | 5 | 12 |
| DEC 74155 | 8 | 16 |
| DEC 74161 | 8 | 16 |
| IC TYPE | GND | + 5V |

GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPTIONS ARE STATED ABOVE

IC PIN LOCATIONS

| | | | | | |
|--------------------------------|---------|----------------------------------|-------------|---|----------|
| QTY | | REF DESIGNATION | DESCRIPTION | PART NO. | ITEM NO. |
| FIRST USED ON OPTION MODEL | | | | | |
| RKB - E | | | | | |
| ETCH BOARD REV B | | | | | |
| PARTS LIST | | | | | |
| DRN | DATE | CHK'D | DATE | digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS | |
| ENG | DATE | PROJ. ENG. | DATE | TITLE CONTROL, RKB-E | |
| PROD. | DATE | NEXT HIGHER ASSY D-UA-RKB-E-0 | | | |
| DEC NO. | EIA NO. | DEC NO. | EIA NO. | SCALE | NUMBER |
| SEMICONDUCTOR CONVERSION CHART | | | | DIST. | REV. |
| SHEET 2 OF | | | | D CS M7106-E-1 | 2 |

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

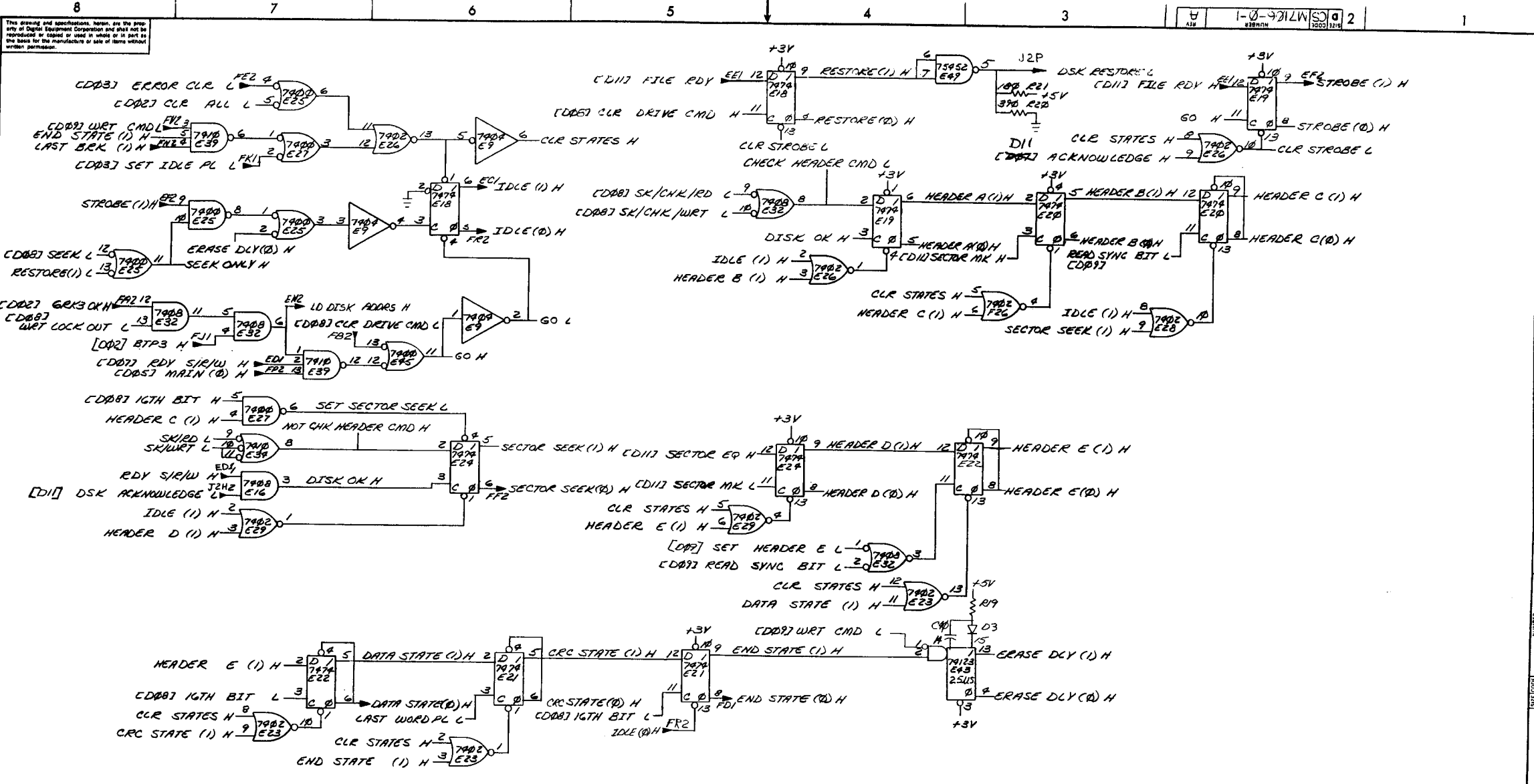


BRUHLING 40-532 15840
 DEC 10 1968 NO
 DRD 102-B

| REV | CHG | NO | DATE |
|-----|-----|--------|------|
| 1 | OK | 8/2/72 | PPY |

| FIRST USED ON OPTION/MODEL | QTY | DESCRIPTION | PART NO. | ITEM NO. | | | | | | | | | | | | | | | | | | | | |
|--|----------|---|----------------|----------|------|----------|------|---------|--------|--|------|---------|------|--|------|---------|------------|--|------|----------|-------|--|------|----------|
| RK8-E | | | | | | | | | | | | | | | | | | | | | | | | |
| UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES | | | | | | | | | | | | | | | | | | | | | | | | |
| DECIMALS | ANGLES | PARTS LIST | | | | | | | | | | | | | | | | | | | | | | |
| XXX - 008 | XX - 02 | <table border="1"> <tr> <td>DRN</td> <td>M. P. C.</td> <td>DATE</td> <td>2/15/72</td> </tr> <tr> <td>CHK'D.</td> <td></td> <td>DATE</td> <td>10-9-72</td> </tr> <tr> <td>ENG.</td> <td></td> <td>DATE</td> <td>10-9-72</td> </tr> <tr> <td>PROJ. ENG.</td> <td></td> <td>DATE</td> <td>10/11/72</td> </tr> <tr> <td>PROD.</td> <td></td> <td>DATE</td> <td>10/11/72</td> </tr> </table> | | | DRN | M. P. C. | DATE | 2/15/72 | CHK'D. | | DATE | 10-9-72 | ENG. | | DATE | 10-9-72 | PROJ. ENG. | | DATE | 10/11/72 | PROD. | | DATE | 10/11/72 |
| DRN | M. P. C. | | | | DATE | 2/15/72 | | | | | | | | | | | | | | | | | | |
| CHK'D. | | DATE | 10-9-72 | | | | | | | | | | | | | | | | | | | | | |
| ENG. | | DATE | 10-9-72 | | | | | | | | | | | | | | | | | | | | | |
| PROJ. ENG. | | DATE | 10/11/72 | | | | | | | | | | | | | | | | | | | | | |
| PROD. | | DATE | 10/11/72 | | | | | | | | | | | | | | | | | | | | | |
| REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY | | TITLE (D08) CONTROL, RK8-E | | | | | | | | | | | | | | | | | | | | | | |
| MATERIAL | | NEXT HIGHER ASSY. | SIZE CODE | NUMBER | | | | | | | | | | | | | | | | | | | | |
| FINISH | | E-DI-R18-0 | D CS M7106-0-1 | REV A | | | | | | | | | | | | | | | | | | | | |
| SHEET 3 OF | | DIST. | | | | | | | | | | | | | | | | | | | | | | |

PART NO. A
 D CS M7106-0-1
 REV. A



REV. 1
REV. 2
REV. 3
REV. 4
REV. 5
REV. 6
REV. 7
REV. 8
REV. 9
REV. 10
REV. 11
REV. 12
REV. 13
REV. 14
REV. 15
REV. 16
REV. 17
REV. 18
REV. 19
REV. 20
REV. 21
REV. 22
REV. 23
REV. 24
REV. 25
REV. 26
REV. 27
REV. 28
REV. 29
REV. 30
REV. 31
REV. 32
REV. 33
REV. 34
REV. 35
REV. 36
REV. 37
REV. 38
REV. 39
REV. 40
REV. 41
REV. 42
REV. 43
REV. 44
REV. 45
REV. 46
REV. 47
REV. 48
REV. 49
REV. 50

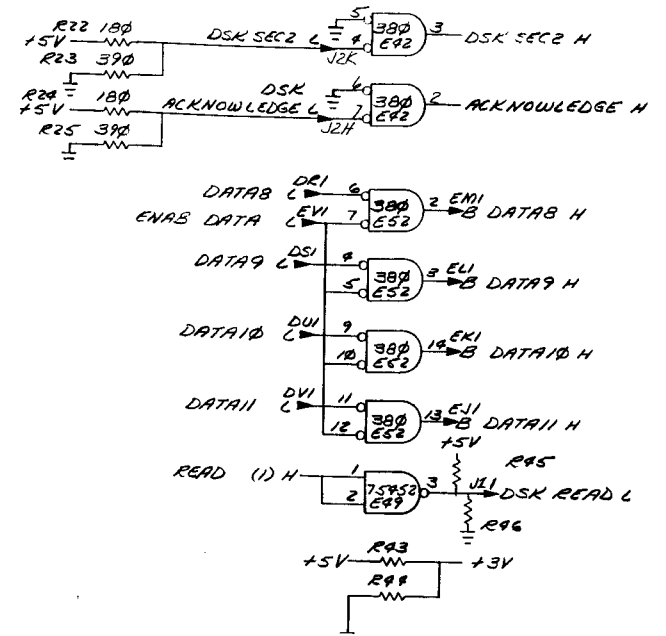
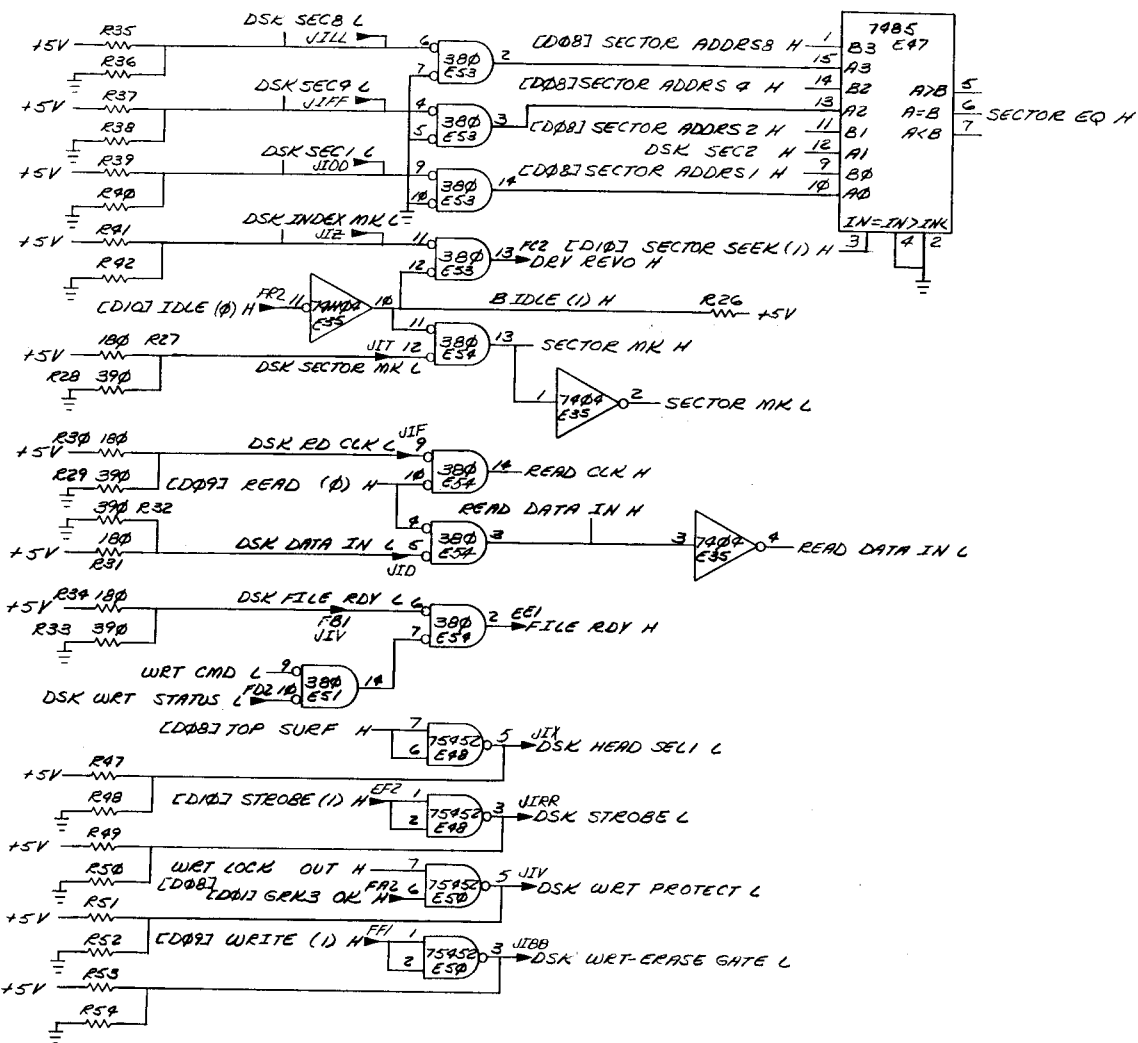
(MAJOR STATES)

| FIRST USED ON OPTION/MODEL | QTY. | DESCRIPTION | PART NO. | ITEM NO. |
|---|--------------------------|---------------------|---|----------|
| RK8-E | | | | |
| PARTS LIST | | | | |
| UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES | DRN. <i>advent</i> | DATE <i>7-14-72</i> | digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS | |
| DECIMALS | CHK'D. | DATE <i>10-7-72</i> | | |
| ANGLES | ENG. <i>advent</i> | DATE <i>10-7-72</i> | TITLE (DI0) CONTROL, RK8-E | |
| .XXX - .005 .XX - .02 .X - .3 | PROJ. ENG. <i>advent</i> | DATE <i>10-7-72</i> | | |
| REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY | PROD. <i>advent</i> | DATE <i>10-7-72</i> | NUMBER DCS M7106-0-1 REV. A | |
| MATERIAL | NEXT HIGHER ASSY. | DATE | | |
| FINISH | B-DI-RK8-0 | SCALE | DIST. | |
| | SHEET 5 OF | | | |

REV. A
REV. B
REV. C
REV. D
REV. E
REV. F
REV. G
REV. H
REV. I
REV. J
REV. K
REV. L
REV. M
REV. N
REV. O
REV. P
REV. Q
REV. R
REV. S
REV. T
REV. U
REV. V
REV. W
REV. X
REV. Y
REV. Z
REV. AA
REV. AB
REV. AC
REV. AD
REV. AE
REV. AF
REV. AG
REV. AH
REV. AI
REV. AJ
REV. AK
REV. AL
REV. AM
REV. AN
REV. AO
REV. AP
REV. AQ
REV. AR
REV. AS
REV. AT
REV. AU
REV. AV
REV. AW
REV. AX
REV. AY
REV. AZ
REV. BA
REV. BB
REV. BC
REV. BD
REV. BE
REV. BF
REV. BG
REV. BH
REV. BI
REV. BJ
REV. BK
REV. BL
REV. BM
REV. BN
REV. BO
REV. BP
REV. BQ
REV. BR
REV. BS
REV. BT
REV. BU
REV. BV
REV. BV
REV. BW
REV. BX
REV. BY
REV. BZ
REV. CA
REV. CB
REV. CC
REV. CD
REV. CE
REV. CF
REV. CG
REV. CH
REV. CI
REV. CJ
REV. CK
REV. CL
REV. CM
REV. CN
REV. CO
REV. CP
REV. CQ
REV. CR
REV. CS
REV. CT
REV. CU
REV. CV
REV. CW
REV. CX
REV. CY
REV. CZ
REV. DA
REV. DB
REV. DC
REV. DD
REV. DE
REV. DF
REV. DG
REV. DH
REV. DI
REV. DJ
REV. DK
REV. DL
REV. DM
REV. DN
REV. DO
REV. DP
REV. DQ
REV. DR
REV. DS
REV. DT
REV. DU
REV. DV
REV. DV
REV. DW
REV. DX
REV. DY
REV. DZ
REV. EA
REV. EB
REV. EC
REV. ED
REV. EE
REV. EF
REV. EG
REV. EH
REV. EI
REV. EJ
REV. EK
REV. EL
REV. EM
REV. EN
REV. EO
REV. EP
REV. EQ
REV. ER
REV. ES
REV. ET
REV. EU
REV. EV
REV. EV
REV. EW
REV. EX
REV. EY
REV. EZ
REV. FA
REV. FB
REV. FC
REV. FD
REV. FE
REV. FF
REV. FG
REV. FH
REV. FI
REV. FJ
REV. FK
REV. FL
REV. FM
REV. FN
REV. FO
REV. FP
REV. FQ
REV. FR
REV. FS
REV. FT
REV. FU
REV. FV
REV. FV
REV. FW
REV. FX
REV. FY
REV. FZ
REV. GA
REV. GB
REV. GC
REV. GD
REV. GE
REV. GF
REV. GG
REV. GH
REV. GI
REV. GJ
REV. GK
REV. GL
REV. GM
REV. GN
REV. GO
REV. GP
REV. GQ
REV. GR
REV. GS
REV. GT
REV. GU
REV. GV
REV. GV
REV. GW
REV. GX
REV. GY
REV. GZ
REV. HA
REV. HB
REV. HC
REV. HD
REV. HE
REV. HF
REV. HG
REV. HH
REV. HI
REV. HJ
REV. HK
REV. HL
REV. HM
REV. HN
REV. HO
REV. HP
REV. HQ
REV. HR
REV. HS
REV. HT
REV. HU
REV. HV
REV. HV
REV. HW
REV. HX
REV. HY
REV. HZ
REV. IA
REV. IB
REV. IC
REV. ID
REV. IE
REV. IF
REV. IG
REV. IH
REV. II
REV. IJ
REV. IK
REV. IL
REV. IM
REV. IN
REV. IO
REV. IP
REV. IQ
REV. IR
REV. IS
REV. IT
REV. IU
REV. IV
REV. IV
REV. IW
REV. IX
REV. IY
REV. IZ
REV. JA
REV. JB
REV. JC
REV. JD
REV. JE
REV. JF
REV. JG
REV. JH
REV. JI
REV. IJ
REV. JK
REV. JL
REV. JM
REV. JN
REV. JO
REV. JP
REV. JQ
REV. JR
REV. JS
REV. JT
REV. JU
REV. JV
REV. JV
REV. JW
REV. JX
REV. JY
REV. JZ
REV. KA
REV. KB
REV. KC
REV. KD
REV. KE
REV. KF
REV. KG
REV. KH
REV. KI
REV. KJ
REV. KK
REV. KL
REV. KM
REV. KN
REV. KO
REV. KP
REV. KQ
REV. KR
REV. KS
REV. KT
REV. KU
REV. KV
REV. KV
REV. KW
REV. KX
REV. KY
REV. KZ
REV. LA
REV. LB
REV. LC
REV. LD
REV. LE
REV. LF
REV. LG
REV. LH
REV. LI
REV. LJ
REV. LK
REV. LL
REV. LM
REV. LN
REV. LO
REV. LP
REV. LQ
REV. LR
REV. LS
REV. LT
REV. LU
REV. LV
REV. LV
REV. LW
REV. LX
REV. LY
REV. LZ
REV. MA
REV. MB
REV. MC
REV. MD
REV. ME
REV. MF
REV. MG
REV. MH
REV. MI
REV. MJ
REV. MK
REV. ML
REV. MM
REV. MN
REV. MO
REV. MP
REV. MQ
REV. MR
REV. MS
REV. MT
REV. MU
REV. MV
REV. MV
REV. MW
REV. MX
REV. MY
REV. MZ
REV. NA
REV. NB
REV. NC
REV. ND
REV. NE
REV. NF
REV. NG
REV. NH
REV. NI
REV. NJ
REV. NK
REV. NL
REV. NM
REV. NN
REV. NO
REV. NP
REV. NQ
REV. NR
REV. NS
REV. NT
REV. NU
REV. NV
REV. NV
REV. NW
REV. NX
REV. NY
REV. NZ
REV. OA
REV. OB
REV. OC
REV. OD
REV. OE
REV. OF
REV. OG
REV. OH
REV. OI
REV. OJ
REV. OK
REV. OL
REV. OM
REV. ON
REV. OO
REV. OP
REV. OQ
REV. OR
REV. OS
REV. OT
REV. OU
REV. OV
REV. OV
REV. OW
REV. OX
REV. OY
REV. OZ
REV. PA
REV. PB
REV. PC
REV. PD
REV. PE
REV. PF
REV. PG
REV. PH
REV. PI
REV. PJ
REV. PK
REV. PL
REV. PM
REV. PN
REV. PO
REV. PP
REV. PQ
REV. PR
REV. PS
REV. PT
REV. PU
REV. PV
REV. PV
REV. PW
REV. PX
REV. PY
REV. PZ
REV. QA
REV. QB
REV. QC
REV. QD
REV. QE
REV. QF
REV. QG
REV. QH
REV. QI
REV. QJ
REV. QK
REV. QL
REV. QM
REV. QN
REV. QO
REV. QP
REV. QQ
REV. QR
REV. QS
REV. QT
REV. QU
REV. QV
REV. QV
REV. QW
REV. QX
REV. QY
REV. QZ
REV. RA
REV. RB
REV. RC
REV. RD
REV. RE
REV. RF
REV. RG
REV. RH
REV. RI
REV. RJ
REV. RK
REV. RL
REV. RM
REV. RN
REV. RO
REV. RP
REV. RQ
REV. RR
REV. RS
REV. RT
REV. RU
REV. RV
REV. RV
REV. RW
REV. RX
REV. RY
REV. RZ
REV. SA
REV. SB
REV. SC
REV. SD
REV. SE
REV. SF
REV. SG
REV. SH
REV. SI
REV. SJ
REV. SK
REV. SL
REV. SM
REV. SN
REV. SO
REV. SP
REV. SQ
REV. SR
REV. SS
REV. ST
REV. SU
REV. SV
REV. SV
REV. SW
REV. SX
REV. SY
REV. SZ
REV. TA
REV. TB
REV. TC
REV. TD
REV. TE
REV. TF
REV. TG
REV. TH
REV. TI
REV. TJ
REV. TK
REV. TL
REV. TM
REV. TN
REV. TO
REV. TP
REV. TQ
REV. TR
REV. TS
REV. TU
REV. TV
REV. TV
REV. TW
REV. TX
REV. TY
REV. TZ
REV. UA
REV. UB
REV. UC
REV. UD
REV. UE
REV. UF
REV. UG
REV. UH
REV. UI
REV. UJ
REV. UK
REV. UL
REV. UM
REV. UN
REV. UO
REV. UP
REV. UQ
REV. UR
REV. US
REV. UT
REV. UU
REV. UV
REV. UV
REV. UW
REV. UX
REV. UY
REV. UZ
REV. VA
REV. VB
REV. VC
REV. VD
REV. VE
REV. VF
REV. VG
REV. VH
REV. VI
REV. VJ
REV. VK
REV. VL
REV. VM
REV. VN
REV. VO
REV. VP
REV. VQ
REV. VR
REV. VS
REV. VT
REV. VU
REV. VV
REV. VV
REV. VW
REV. VX
REV. VY
REV. VZ
REV. WA
REV. WB
REV. WC
REV. WD
REV. WE
REV. WF
REV. WG
REV. WH
REV. WI
REV. WJ
REV. WK
REV. WL
REV. WM
REV. WN
REV. WO
REV. WP
REV. WQ
REV. WR
REV. WS
REV. WT
REV. WU
REV. WV
REV. WV
REV. WW
REV. WX
REV. WY
REV. WZ
REV. XA
REV. XB
REV. XC
REV. XD
REV. XE
REV. XF
REV. XG
REV. XH
REV. XI
REV. XJ
REV. XK
REV. XL
REV. XM
REV. XN
REV. XO
REV. XP
REV. XQ
REV. XR
REV. XS
REV. XT
REV. XU
REV. XV
REV. XV
REV. XW
REV. XX
REV. XY
REV. XZ
REV. YA
REV. YB
REV. YC
REV. YD
REV. YE
REV. YF
REV. YG
REV. YH
REV. YI
REV. YJ
REV. YK
REV. YL
REV. YM
REV. YN
REV. YO
REV. YP
REV. YQ
REV. YR
REV. YS
REV. YT
REV. YU
REV. YV
REV. YV
REV. YW
REV. YX
REV. YY
REV. YZ
REV. ZA
REV. ZB
REV. ZC
REV. ZD
REV. ZE
REV. ZF
REV. ZG
REV. ZH
REV. ZI
REV. ZJ
REV. ZK
REV. ZL
REV. ZM
REV. ZN
REV. ZO
REV. ZP
REV. ZQ
REV. ZR
REV. ZS
REV. ZT
REV. ZU
REV. ZV
REV. ZV
REV. ZW
REV. ZX
REV. ZY
REV. ZZ

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

U 1-0-9012W 2



J2

| | | |
|----|--------------------|-------|
| UU | DSK CYL ADB L | E71 |
| SS | DSK CYL ADR L | E72 |
| PP | DSK CYL ADGA L | E82 |
| MM | DSK CYL AD16 L | E83 |
| KK | DSK WRT CLK DATA L | E44-3 |
| HH | DSK CYL AD12B L | E82 |
| EE | DSK RDY SIR/W L | E83 |
| CC | DSK CYL AD 32 L | E72 |
| AA | DSK DRIVE 0 L | E82 |
| Y | DSK CYL AD1 L | E81 |
| W | DSK DRIVE 1 L | E81 |
| U | DSK CYL AD4 L | E82 |
| S | DSK DRIVE 2 L | E81 |
| P | DSK RESTORE L | E49-5 |
| M | DSK DRIVE 3 L | EN1 |
| K | DSK SEC 2 L | E42-4 |
| H | DSK ACKNOWLEDGE L | E42-7 |
| E | DSK SEEK FAIL L | E42 |
| C | DSK CAPACITY EX L | FC1 |

J1

| | | |
|----|----------------------|--------|
| Q | DSK DATA IN L | E54-5 |
| F | DSK RD CLK L | E54-9 |
| V | DSK WRT PROTECT L | E50-5 |
| L | DSK READ L | E49-3 |
| R | DSK WRT STATUS L | F02 |
| T | DSK SECTOR MK L | E50-12 |
| X | DSK FILE RDY L | E54-6 |
| W | DSK HEAD SEL 1 L | E48-5 |
| BB | DSK WRT-ERASE GATE L | E53-11 |
| DD | DSK SEC 1 L | E50-3 |
| FF | DSK SEC 4 L | E53-9 |
| LL | DSK SEC 8 L | E53-4 |
| RR | DSK STROBE L | E48-3 |

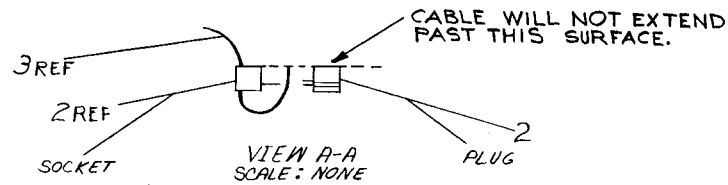
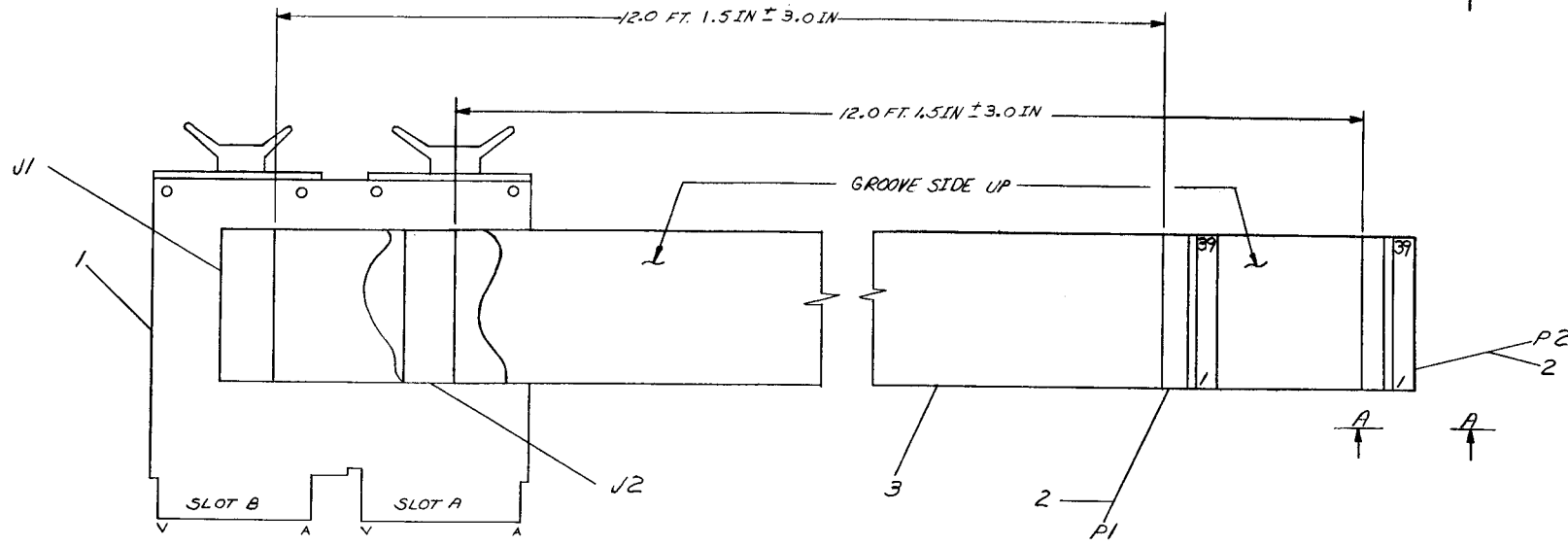
(DRIVE SIGNALS CABLE J2 DRIVERS)

| FIRST USED ON OPTION/MODEL | QTY. | DESCRIPTION | PART NO. | ITEM NO. |
|--|----------|--------------------|----------------|----------|
| RK8-E | | PARTS LIST | | |
| UNLESS OTHERWISE SPECIFIED | | DRN. 7-19-72 | DATE | |
| DIMENSION IN INCHES | | CHK'D 7/19/72 | DATE | |
| TOLERANCES | | ENG. 7/19/72 | DATE | |
| DECIMALS | ANGLES | PROJ. ENG. 7/19/72 | DATE | |
| .XXX + .005 | ± 0° 30' | PROD. 7/19/72 | DATE | |
| .XX + .02 | | | | |
| X - .1 | | | | |
| REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY | | | | |
| MATERIAL | | NEXT HIGHER ASSY. | | |
| FINISH | | B-NL-RK8-R | SIZE CODE | NUMBER |
| | | SCALE | D/CS M7106-0-1 | REV. A. |
| | | SHEET 6 OF | DIST. | |

BRUNING 40-322 18460
 DEC 1 FORM NO. ORD 102-B
 REVISIONS
 CHANGE NO. 00X 3/6/72
 CHK. 19/1

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

NOTES:
 1. CABLE TO BE WIRED WITH GROOVE SIDE UP.
 2. WHEN ATTACHING CONN (ITEM #2) TO CABLE (ITEM #3) USE SCOTCHFLEX LOCATOR PLATE # 3443-24 AND SCOTCHFLEX ASSY. PRESS # 344-5 FROM 3M COMPANY.
 3. TAPE CABLE EVERY 1.5 FEET.



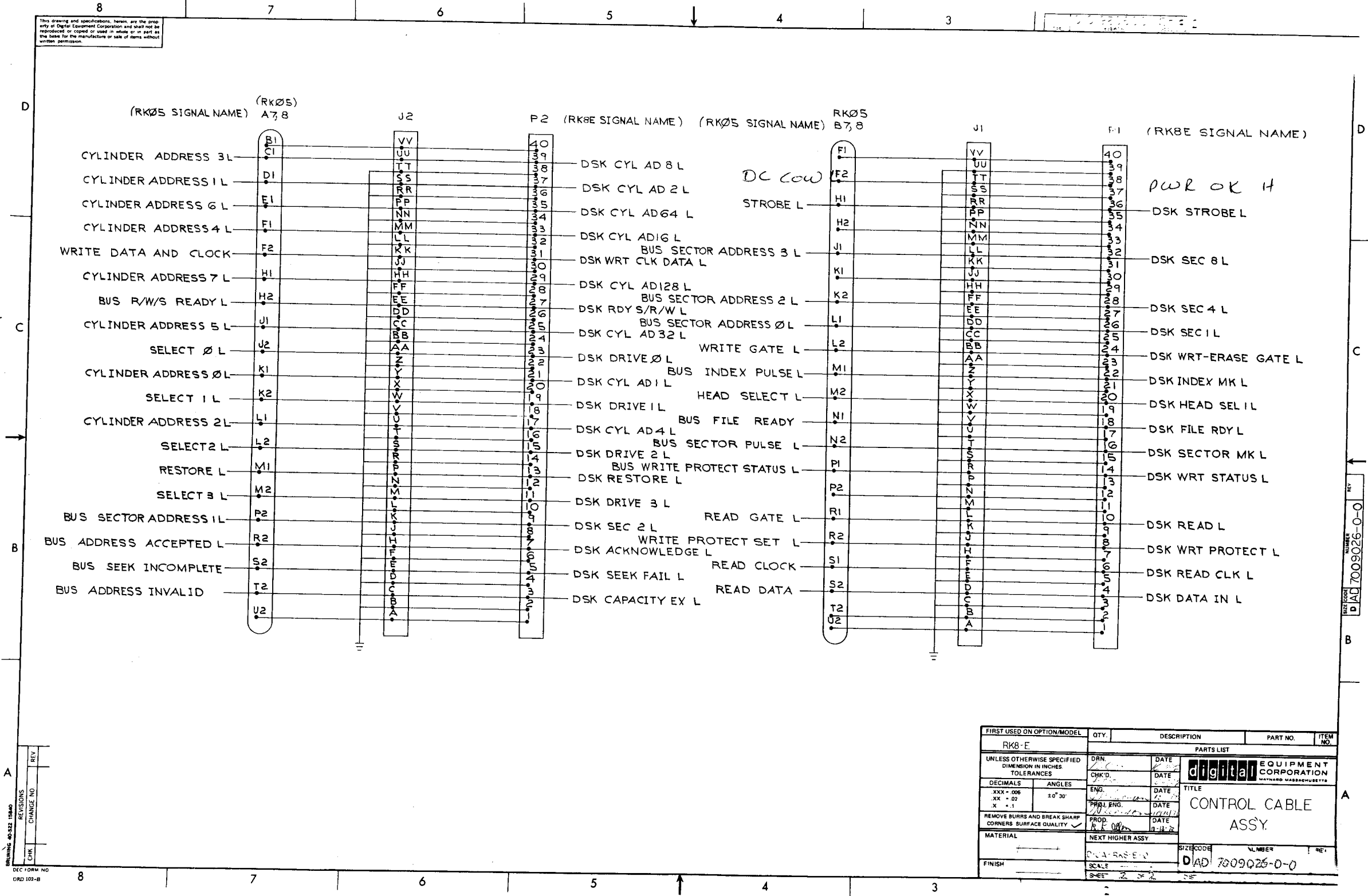
| QTY. | DESCRIPTION | PART NO. | ITEM NO. |
|------|-------------------------------------|-----------|----------|
| 1 | RK8-E CONTROL CABLE MOD-CS-1R33-0-1 | | 1 |
| 2 | SCOTCHFLEX CONN #3443-24 | 12/1206 | 2. |
| 2 | CABLE 90 CONDUCTOR 30 AWG | 910777-01 | 3 |
| 4 | TAPE, ELECTRICAL WHI | 9008880 | 4 |

| FIRST USED ON OPTION/MODEL | | PARTS LIST | |
|---|-----------------------------|---------------------|--|
| RK8-E | | | |
| UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES | DRN. <i>M. Baker</i> | DATE <i>8/1/72</i> | digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS |
| DECIMALS .XXX - .005 .XX - .02 .X - .1 | CHK'D. <i>[Signature]</i> | DATE <i>8/1/72</i> | |
| ANGLES ±0° 30' | ENG. <i>[Signature]</i> | DATE <i>8/1/72</i> | TITLE CONTROL CABLE ASSY |
| REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓ | PROD. <i>R. K. Sullivan</i> | DATE <i>8-13-72</i> | |
| MATERIAL | NEXT HIGHER ASSY. | | SIZE CODE |
| FINISH | D-UA-RK8-E-0 | SCALE <i>NONE</i> | NUMBER |
| | SHEET 1 OF 2 | DIST | REV. |

BRUNING 40-107 15848
 DTC FORM NO. DRD 100-A
 REVISIONS
 CHANGE NO.
 REV.

REV. NUMBER
 7009026-0-0

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

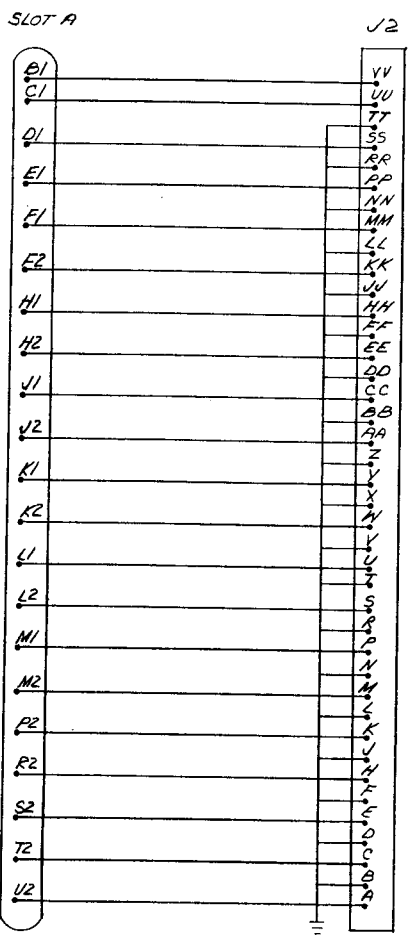


BRUNING 40-532 15840
 DEC FORM NO
 ORD 102-B

| | | | | | |
|--|---------|-------------------|-------------|--|----------|
| FIRST USED ON OPTION/MODEL | | QTY. | DESCRIPTION | PART NO. | ITEM NO. |
| RK8-E | | | | | |
| UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES | | PARTS LIST | | | |
| TOLERANCES | | DRN. | DATE | digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS | |
| DECIMALS | ANGLES | CHK'D. | DATE | TITLE | |
| .XXX = .006 | 20° 30' | ENG. | DATE | CONTROL CABLE ASSY. | |
| .XX = .02 | | PROJ. ENG. | DATE | | |
| .X = .1 | | PROD. | DATE | | |
| REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY | | NEXT HIGHER ASSY. | | | |
| MATERIAL | | SCALE | | SIZE CODE NUMBER | |
| FINISH | | SCALE | | D1AD 7009026-0-0 | |

REV. 1
 NUMBER
 D1AD 7009026-0-0

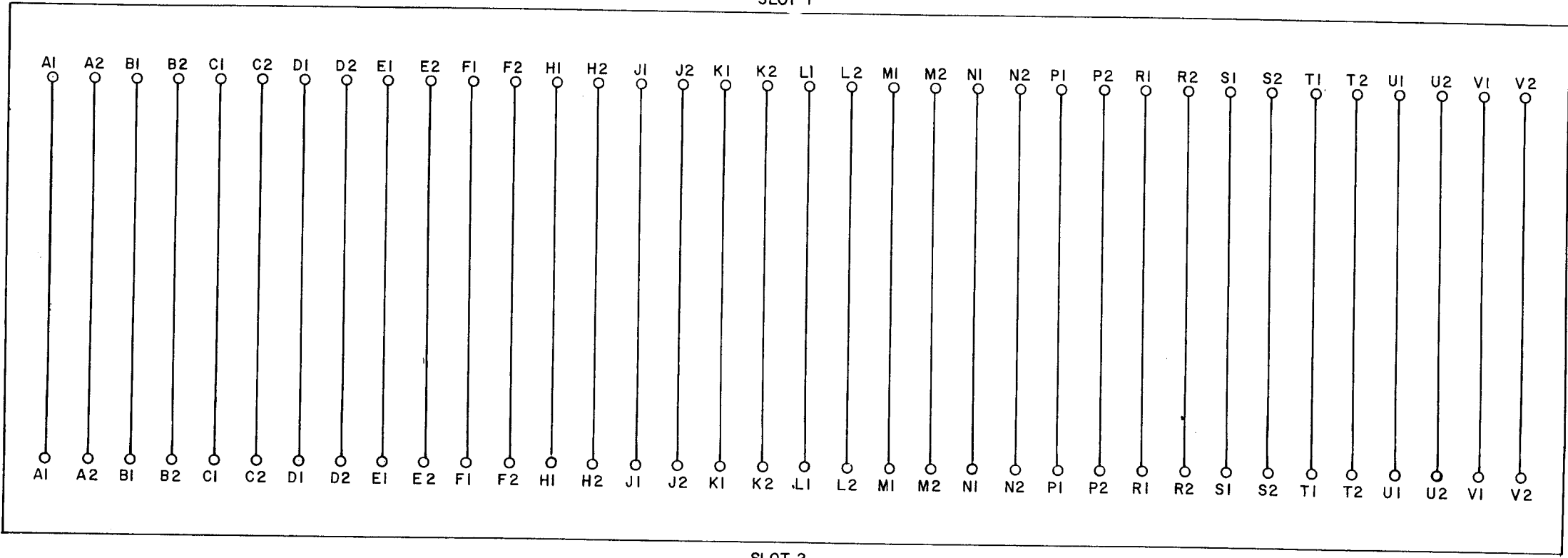
This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.



THIS SCHEMATIC IS FURNISHED ONLY FOR TEST AND MAINTENANCE PURPOSES. THE CIRCUITS ARE PROPRIETARY IN NATURE AND SHOULD BE TREATED ACCORDINGLY. COPYRIGHT 1970 BY DIGITAL EQUIPMENT CORPORATION

REV. B
 NUMBER H851-0-1
 SIZE CODE B CS

SLOT 1



SLOT 2

UNLESS OTHERWISE INDICATED:
 CONNECTOR IS A 1210152

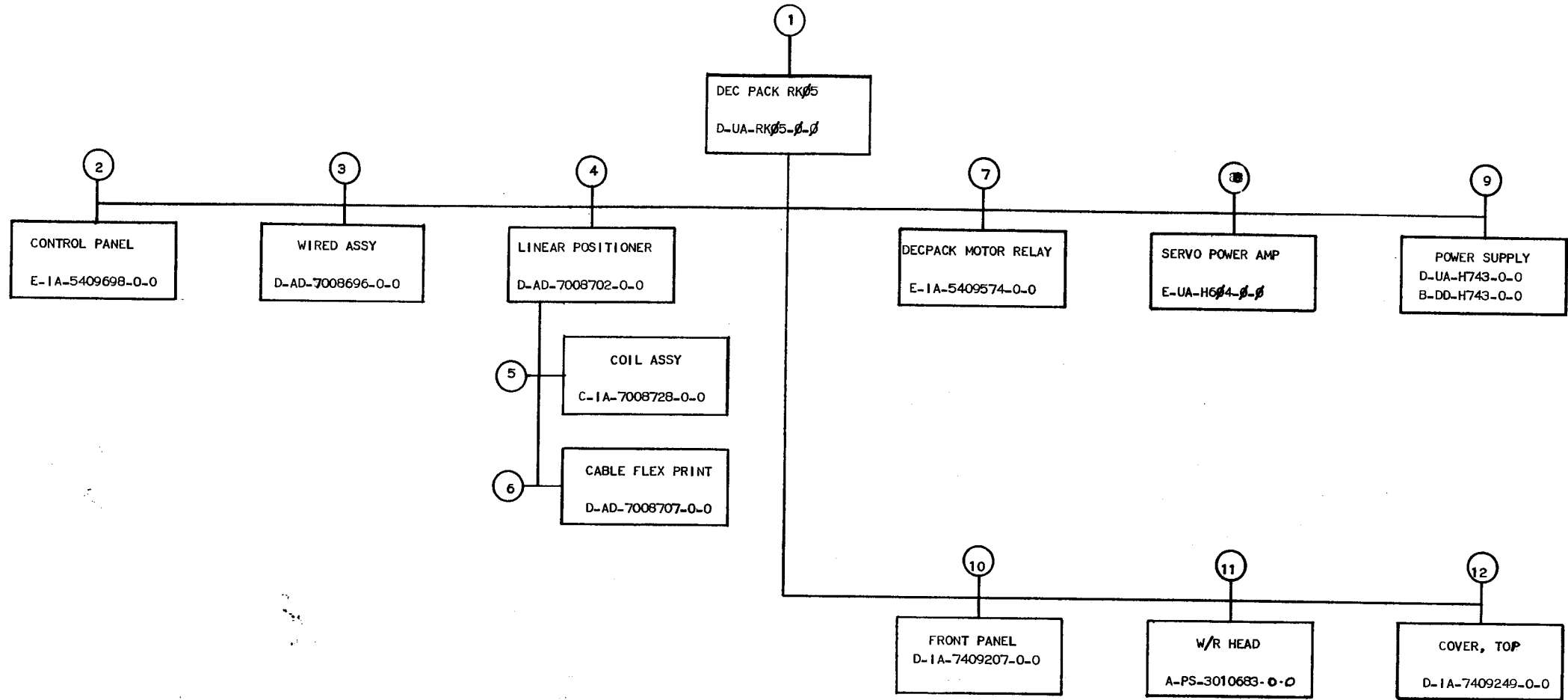
| REVISIONS | CHK | CHG NO. | REV. |
|-------------|-----|---------|------|
| | | 00002 | B |
| P. GARDNER | | | |
| J.G.P. P.G. | | | |

| | |
|-----------------------------|-----------------|
| DRN. jeanne french | DATE 7/29/70 |
| CHK'D <i>[Signature]</i> | DATE 1-29-71 |
| ENG. <i>[Signature]</i> | DATE 1-29-71 |
| PROD. | DATE |

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

digital
 EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

| | | | |
|---------------------------------|------------|--------------------|-----------|
| TITLE EDGE CONNECTOR H851 | | | |
| SIZE B | CODE CS | NUMBER H851-0-1 | REV. B |
| PRINTED CIRCUIT REV. | | | C |



| TITLE | SIZE | CODE | NUMBER | REV |
|--------------|------|------|--------|-----|
| DECPACK ASSY | B | DD | RK05-β | C |
| SHEET 2 OF 5 | | | | |

DIGITAL EQUIPMENT CORPORATION WORLD-WIDE SALES AND SERVICE

146 Main Street, Maynard, Massachusetts, U.S.A. 01754
Telephone: From Metropolitan Boston: 646-8600 • Elsewhere: (617)-897-5111
TWX: 710-347-0212 Cable: DIGITAL MAYN Telex: 94-8457

UNITED STATES

NORTHEAST

REGIONAL OFFICE
275 Wyman Street, Waltham, Massachusetts 02154
Telephone: (617)-890-0320/0330 TWX: 710-324-6919

WALTHAM
15 Lunda Street, Waltham, Massachusetts 02154
Telephone: (617)-891-1030 TWX: 710-324-6919

CAMBRIDGE/BOSTON
899 Main Street, Cambridge, Massachusetts 02139
Telephone: (617)-491-6130 TWX: 710-320-1167

ROCHESTER
130 Allens Creek Road, Rochester, New York 14618
Telephone: (716)-461-1700 TWX: 710-253-3078

CONNECTICUT
240 Pomeroy Ave., Meriden, Conn. 06450
Telephone: (203)-237-8441/7466 TWX: 710-461-0054

MID-ATLANTIC — SOUTHEAST

REGIONAL OFFICE:
U.S. Route 1, Princeton, New Jersey 08540
Telephone: (609)-452-2940 TWX: 510-685-2338

NEW YORK
95 Cedar Lane, Englewood, New Jersey 07631
Telephone: (201)-871-4984, (212)-594-6955, (212)-736-0447
TWX: 710-991-9721

NEW JERSEY
1259 Route 46, Parsippany, New Jersey 07054
Telephone: (201)-335-3300 TWX: 710-987-8319

PRINCETON
U.S. Route 1
Princeton, New Jersey 08540
Telephone: (609)-452-2940 TWX: 510-685-2338

LONG ISLAND
1 Huntington Quadrangle
Suite 1507 Huntington Station, New York 11746
Telephone: (516)-694-4131, (212)-895-8095

PHILADELPHIA
Station Square Three, Paoli, Pennsylvania 19301
Telephone: (215)-647-4900/4410 Telex: 510-668-8395

WASHINGTON
Executive Building
6811 Kenilworth Ave., Riverdale, Maryland 20840
Telephone: (301)-779-1600/752-8787 TWX: 710-826-9662

DURHAM/CHAPEL HILL
2704 Chapel Hill Boulevard
Durham, North Carolina 27707
Telephone: (919)-489-3347 TWX: 510-927-0912

ORLANDO
Suite 130, 7001 Lake Ellenor Drive, Orlando, Florida 32809
Telephone: (305)-851-4450 TWX: 810-850-0180

ATLANTA
2815 Clearview Place, Suite 100,
Atlanta, Georgia 30340
Telephone: (404)-451-3734/3735/3736 TWX: 810-757-4223

INTERNATIONAL

EUROPEAN HEADQUARTERS

Digital Equipment Corporation International Europe
81 Route de l'Aire
1211 Geneva 26, Switzerland
Telephone: 42 79 50 Telex: 22 683

MID-ATLANTIC — SOUTHEAST (cont.)

KNOXVILLE
6311 Kingston Pike, Suite 21E
Knoxville, Tennessee 37919
Telephone: (615)-588-6571 TWX: 810-583-0123

CENTRAL

REGIONAL OFFICE:
1850 Frontage Road, Northbrook, Illinois 60062
Telephone: (312)-498-2500 TWX: 910-686-0655

PITTSBURGH
400 Penn Center Boulevard
Pittsburgh, Pennsylvania 15235
Telephone: (412)-243-9404 TWX: 710-797-3657

CHICAGO
1850 Frontage Road, Northbrook, Illinois 60062
Telephone: (312)-498-2500 TWX: 910-686-0655

ANN ARBOR
230 Huron View Boulevard, Ann Arbor, Michigan 48103
Telephone: (313)-761-1150 TWX: 810-223-6053

INDIANAPOLIS
21 Beachway Drive — Suite G
Indianapolis, Indiana 46224
Telephone: (317)-243-8341 TWX: 810-341-3436

MINNEAPOLIS
Suite 111, 8030 Cedar Avenue South,
Minneapolis, Minnesota 55420
Telephone: (612)-854-6562-3-4-5 TWX: 910-576-2818

CLEVELAND
Park Hill Bldg., 35104 Euclid Ave.
Willoughby, Ohio 44094
Telephone: (216)-946-8464 TWX: 810-427-2608

ST. LOUIS
Suite 110, 115 Progress Pky., Maryland Heights,
Missouri 63043
Telephone: (314)-878-4310 TWX: 910-764-0831

DAYTON
3101 Kettering Blvd., Dayton, Ohio 45439
Telephone: (513)-239-7377 TWX: 810-459-1676

MILWAUKEE
8531 W. Capitol Drive, Milwaukee, Wisconsin 53222
Telephone: (414)-463-9110 TWX: 910-262-1199

DALLAS
8855 North Stemmons Freeway
Dallas, Texas 75247
Telephone: (214)-638-4880 TWX: 910-861-4000

HOUSTON
3471 Milam Street, Suite A, Houston, Texas 77002
Telephone: (713)-524-2961 TWX: 910-881-1651

SWEDEN

Digital Equipment Aktiefbolag
STOCKHOLM
Vretenvagen 2, S-171 54 Solna, Sweden
Telephone: 98 13 90 Telex: 170 50
Cable: Digital Stockholm

CENTRAL (cont.)

NEW ORLEANS
3100 Ridgeway Drive, Suite 108
Metairie, Louisiana 70002
Telephone: (504)-837-0257

WEST

REGIONAL OFFICE
310 Soquel Way, Sunnyvale, California 94086
Telephone: (408)-735-9200

ANAHEIM
801 E. Ball Road, Anaheim, California 92605
Telephone: (714)-776-6932/6730 TWX: 910-59-1189

WEST LOS ANGELES
1510 Cotner Avenue, Los Angeles, California 90025
Telephone: (213)-479-3791/4318 TWX: 910-342-8993

SAN DIEGO
3444 Hancock Street
San Diego, California 92110
Telephone: (619)-298-0591, 0593 TWX: 910-335-1230

SAN FRANCISCO
1400 Terra Bella
Mountain View, California 94040
Telephone: (415)-964-6200 TWX: 910-373-1266

PALO ALTO
560 San Antonio Rd., Palo Alto, California 94303
Telephone: (415)-969-6200 TWX: 910-373-1266

OAKLAND
7850 Edgewater Drive
Oakland, California 94621
Telephone: (415)-635-5453/7830 TWX: 910-373-67238

ALBUQUERQUE
6303 Indian School Road, N.E.
Albuquerque, N.M. 87110
Telephone: (505)-296-5411/5428 TWX: 910-988-0614

DENVER
2305 South Colorado Blvd., Suite #5
Denver, Colorado 80222
Telephone: (303)-757-3332/758-1656/758-1659
TWX: 910-931-2650

SEATTLE
1521 130th N.E., Bellevue, Washington 98005
Telephone: (206)-454-4058/455-5404 TWX: 910-443-2306

SALT LAKE CITY
431 South 3rd East, Salt Lake City, Utah 84111
Telephone: (801)-328-9838 TWX: 910-925-5634

PHOENIX
4358 East Broadway Road
Phoenix, Arizona 85040
Telephone: (602)-268-3488 TWX: 910-950-4681

PORTLAND
Suite 168
5319 S.W. Canyon Court, Portland, Ore. 97221
Telephone: (503)-297-3761/3765

NEW ZEALAND

Digital Equipment Corporation Ltd.
AUCKLAND
Hilton House, 430 Queen Street, Box 2471 A,
Auckland, New Zealand
Telephone: 75-533

INTERNATIONAL (cont.)

FRANCE

Equipment Digital S.A.R.L.

PARIS
327 Rue de Charenton, 75 Paris 12^{ème}, France
Telephone: 344-76-07 Telex: 21339

GRENOBLE
10 rue Auguste Ravier, F-38 Grenoble, France
Telephone: (76) 87 87 32 Telex: 32 882 F (Code 212)

GERMANY

Digital Equipment GmbH
MUNICH
8 Muenchen 13, Wallensteinplatz 2
Telephone: 0811-35031 Telex: 524-226

COLOGNE
5 Koeln, Bismarckstrasse 7,
Telephone: 0221-522181 Telex: 888-2269

FRANKFURT
Am Forsthaus Gravenbruch 5-7
Telephone: 06102-5526 Telex: 41-76-62

HANNOVER
3 Hannover, Podbielskistrasse 102
Telephone: 0511-69-70-95 Telex: 922-952

AUSTRIA
Digital Equipment Corporation Ges.m.b.H.
VIENNA
Mariahilferstrasse 136, 1150 Vienna 15, Austria
Telephone: 85 51 86

UNITED KINGDOM
Digital Equipment Co., Ltd.
U.K. HEADQUARTERS
Arkwright Road, Reading, Berks.
Albuquerque, N.M. 87110
Telephone: 0734-583555 Telex: 84327

READING
The Evening Post Building, Tessa Road
Reading, Berks.
Telephone: 0611-790-8411 Telex: 337 060

BIRMINGHAM
29/31, Birmingham Road, Sutton Coldfield, Warwicks.
Telephone: (0044) 21-355 5501 Telex: 337 060

MANCHESTER
13 Upper Precinct, Walkden, Manchester M28 5AZ
Telephone: 061-579-2334 Telex: 22371

LONDON
Bilton House, Uxbridge Road, Ealing, London W.5.
Telephone: (01)-579-2334 Telex: 22371

EDINBURGH
Shiel House, Craigshill, Livingston,
West Lothian, Scotland
Telephone: 32705 / Telex: 727113

NETHERLANDS
THE HAGUE
Digital Equipment N.V.
Sir Winston Churchilllaan 370
Rijswijk/The Hague, Netherlands
Telephone: 070-995-160 Telex: 32533

BRUSSELS
Digital Equipment N.V./S.A.
108 Rue D'Arion
1040 Brussels, Belgium
Telephone: 02-139256 Telex: 25297

BRISBANE
139 Merivale Street, South Brisbane
Queensland, Australia 4101
Telephone: 444-047 Telex: AA40616

MELBOURNE
60 Park Street, South Melbourne, Victoria, 3205
Telephone: 696-142 Telex: AA40616

PERTH
643 Murray Street
West Perth, Western Australia 6005
Telephone: 214-993 Telex: AA92140

SYDNEY
P.O. Box 491, Crows Nest
N.S.W. Australia 3065
Telephone: 439-2566 Telex: AA20740
Cable: Digital, Sydney

PERTH
643 Murray Street
West Perth, Western Australia 6005
Telephone: 214-993 Telex: AA92140

BRISBANE
139 Merivale Street, South Brisbane
Queensland, Australia 4101
Telephone: 444-047 Telex: AA40616

ADLAIDE
6 Montrose Avenue
Norwood, South Australia 5067
Telephone: 631-339 Telex: AA82925

NORWAY

Digital Equipment
OSLO
c/o Firma Service
Walldenmarthranesgate 84-B-86
Oslo 1, Norway
Telephone: 37 19 85, 27 02 30 Telex: 166 43

DENMARK

Digital Equipment Corporation
COPENHAGEN
Vesterbrogade 140, 1620 Copenhagen V

SWITZERLAND

Digital Equipment Corporation S.A.

GENEVA
81 Route de l'Aire
1211 Geneva 26, Switzerland
Telephone: 42 79 50 Telex: 22 683

ZURICH
Scheuchzerstrasse 21
CH-8006 Zurich, Switzerland
Telephone: 01/60 35 66 Telex: 56059

ITALY
Digital Equipment S.p.A.
MILAN
Corso Garibaldi 49, 20121 Milano, Italy
Telephone: 872 748 694 394 Telex: 33615

SPAIN
MADRID
Ataio Ingenieros S.A., Enrique Larreta 12, Madrid 16
Telephone: 215 35 43 / Telex: 27249

BARCELONA
Ataio Ingenieros S.A., Ganduxer 76, Barcelona 6
Telephone: 221 44 66

CHILE
SANTIAGO
Coasin Chile Ltda. (sales only)
Casilla 14588, Correo 15, Santiago
Telephone: 396713 Cable: COACHIL

VENEZUELA
CARACAS
Coasin S.A. (Sales only)
Apartado 50939
Salana Grande No. 1, Caracas
Telephone: 72-9637 Cable: INSTRUVEN

JAPAN
TOKYO
Rikei Trading Co., Ltd. (sales only)
Kozato-Kaikan Bldg.
No. 18-14, Nishishimbashi 1-chome
Minato-Ku, Tokyo, Japan
Telephone: 5815246 Telex: 781-4208

AUSTRALIA
Digital Equipment Australia Pty. Ltd.
SYDNEY
P.O. Box 491, Crows Nest
N.S.W. Australia 3065
Telephone: 439-2566 Telex: AA20740
Cable: Digital, Sydney

MELBOURNE
60 Park Street, South Melbourne, Victoria, 3205
Telephone: 696-142 Telex: AA40616

PERTH
643 Murray Street
West Perth, Western Australia 6005
Telephone: 214-993 Telex: AA92140

BRISBANE
139 Merivale Street, South Brisbane
Queensland, Australia 4101
Telephone: 444-047 Telex: AA40616

ADLAIDE
6 Montrose Avenue
Norwood, South Australia 5067
Telephone: 631-339 Telex: AA82925

INDIA
H.S. Sonawala Mg Director (Sales Only)
HINDITRON SERVICES PUT LTD.
69/A Nepean Sea Road
Bombay, India

PHILIPPINES
Stanford Computer Corporation
P.O. Box 1608
416 Dasmarias St., Manila
Telephone: 49-68-96 Telex: 742-0352

ARGENTINA
BUENOS AIRES
Coasin S.A.
Virrey del Pino 4071, Buenos Aires
Telephone: 52-3185 Telex: 012-2284

CANADA
Digital Equipment of Canada, Ltd.
CANADIAN HEADQUARTERS
150 Rosamond Street, Carleton Place, Ontario
Telephone: (613)-257-2615 TWX: 610-561-1651

OTTAWA
120 Holland Street, Ottawa 3, Ontario K1Y 0X7
Telephone: (613)-725-2193 TWX: 610-562-8907

TORONTO
230 Lakeshore Road East, Port Credit, Ontario
Telephone: (416)-274-1241 TWX: 610-492-4306

MONTREAL
9675 Cote de Liesse Road
Dorval, Quebec, Canada 760
Telephone: 514-636-9393 TWX: 610-422-4124

EDMONTON
5531 - 103 Street
Edmonton, Alberta, Canada
Telephone: (403)-434-9333 TWX: 610-831-2248

VANCOUVER
Digital Equipment of Canada, Ltd.
2210 West 12th Avenue
Vancouver 9, British Columbia, Canada
Telephone: (604)-736-5616 TWX: 610-929-2006