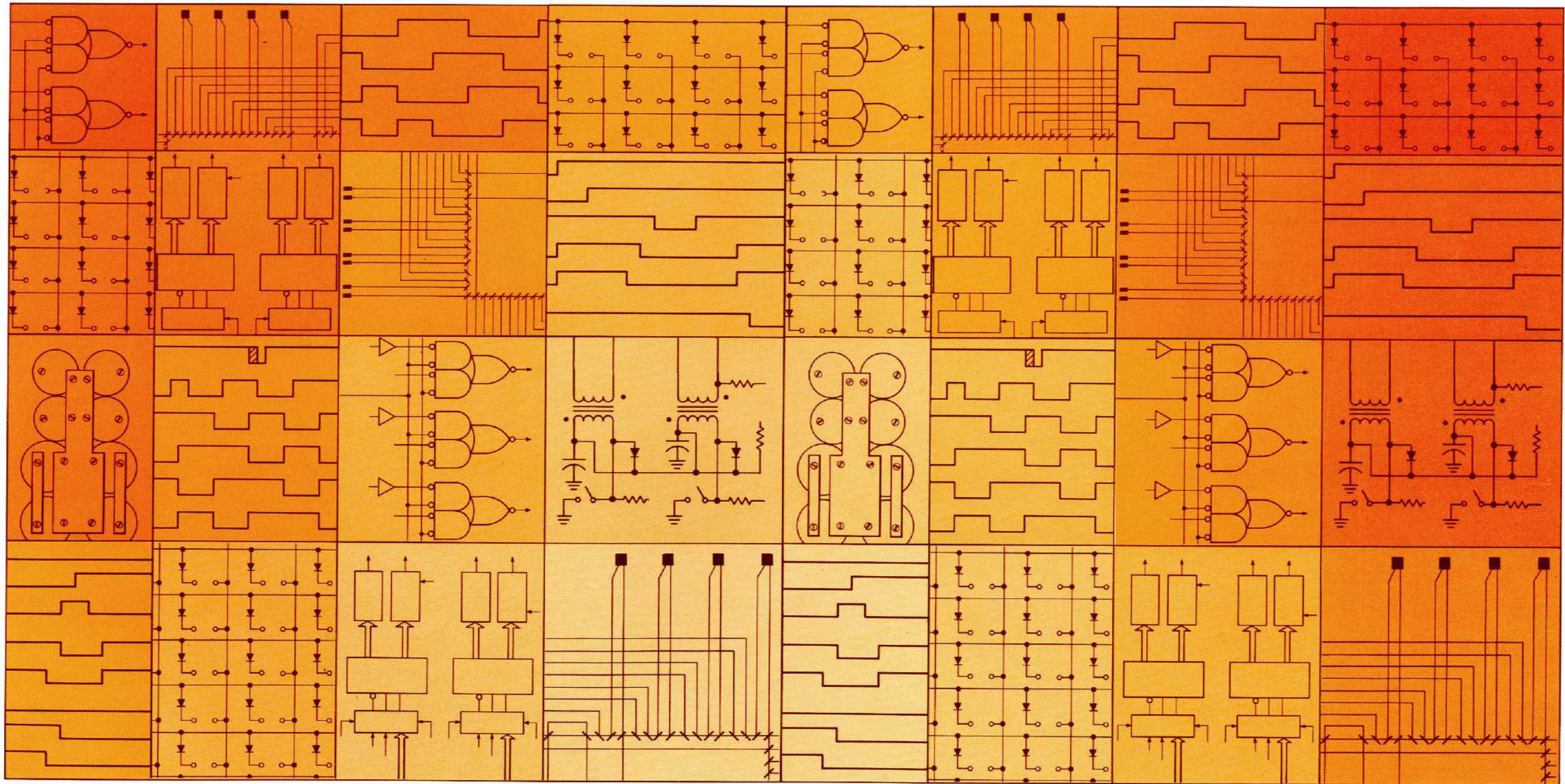


pdp8/e

pdp8/f & pdp8/m

TA8- $\phi$   
cassette interface  
engineering drawings

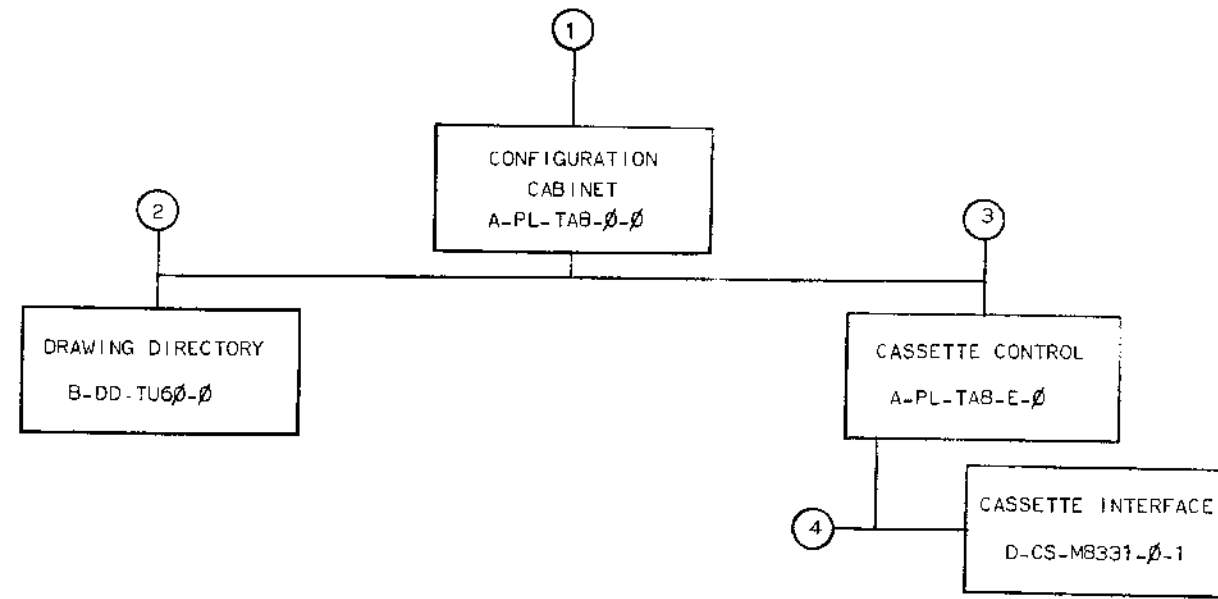


digital



**TA8-Ø**  
**cassette interface**  
**engineering drawings**

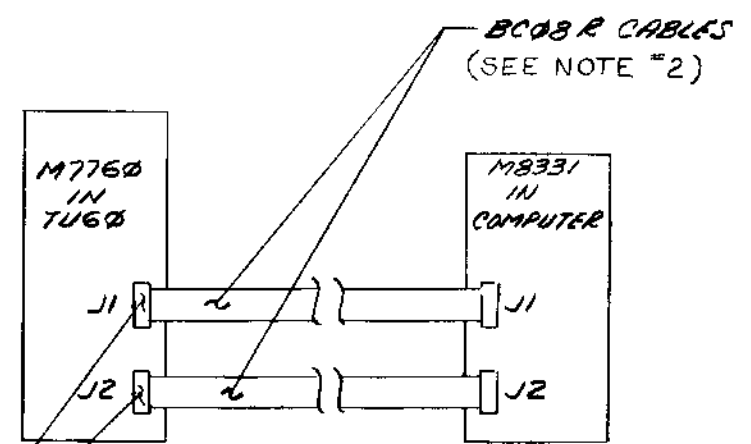




TITLE	SHEET 2 OF 3	SIZE CODE	NUMBER	REV
CASSETTE SYSTEM (TAB-E)		B DD	TAB-Ø	B



...are the prep...  
...and shall not be...  
...in whole or in part as...  
...of items without...  
973

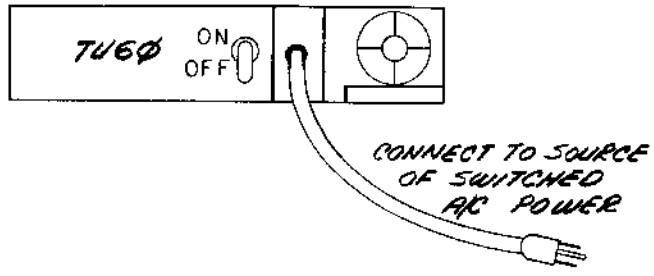


RACK MOUNT CABLING  
(REPEAT AS REQ'D FOR EACH TUBE)

SEE NOTE #1

**NOTES:**

1. INSTALL CONNECTOR SO THE LETTERING ON THE CONNECTOR FACES DOWN.
2. ON EACH END OF CABLE, LABEL J1 OR J2 AND "THIS SIDE UP" AS REQUIRED.



A/C POWER WIRING

REV	A
DATE	1-15-73
BY	L. NARHI
CHK'D	L. NARHI
DATE	5-24-73
BY	L. NARHI
CHK'D	L. NARHI
DATE	5-24-73

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
TAB-E				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		DATE	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
DECIMALS	ANGLES	CHK'D.	DATE	TITLE
.XXX = .005	±0° 30'			POWER WIRING AND CABLE CONFIGURATION (TAB-E)
.XX = .02		ENG	DATE	
.X = .1		PROJ ENG	DATE	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓		PROD	DATE	
MATERIAL	NEXT HIGHER ASSY.	SIZE CODE NUMBER REV		
	E-LL-TAB-Ø	C	IC	TA8-Ø-1 B
FINISH	SCALE NONE	DIST.		
	SHEET 1 OF 1			

REV B  
NUMBER TA8-Ø-1  
SIZE CODE C

... are the prop  
... shall not be  
... part as  
... items without  
1973

**NOTES:**

- ONE (1) M8331 (TAB-E) MODULE REQ'D FOR EACH TUGØ. FOR TWO (2) OR MORE TUGØ'S, CHANGE IOT CODES PER DRAWING D-C5-M8331-Ø-1 FOR EACH TUGØ BEYOND #1
- TWO (2) BCØBR-1Ø CABLES REQ'D PER TUGØ.
- ~~FOR TABLE-TOP TUGØ'S ONE (1) 7ØØØ62Ø IS REQ'D PER TUGØ.~~

	TUGØ #6
	TUGØ #5
	TUGØ #4
	TUGØ #3
TUGØ #8	TUGØ #2
TUGØ #7	TUGØ #1
	COMPUTER PDP 8/E, FORM
	EXPANDER BOX

FRONT VIEW

TAB-00001 A  
L NARHI  
1-18-73  
TAB-00002 B  
L NARHI  
1-19-73

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
<b>TAB-E</b>				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		DEN. <i>[Signature]</i>	DATE 7-25-72	<b>digital</b> EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS  TITLE <b>CONFIGURATION, CABINET (TAB-E)</b>
DECIMALS	ANGLES	CHK'D. <i>[Signature]</i>	DATE 9-1-72	
XXX - .005 .XX - .02 .X - .1	± 0° 30'	ENG. <i>[Signature]</i>	DATE 9-1-72	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓		PROJ. ENG. <i>[Signature]</i>	DATE 9-1-72	
MATERIAL	NEXT HIGHER ASSY.	PROD. <i>[Signature]</i>	DATE 7-5-72	
FINISH	SCALE <i>NONE</i>	SIZE CODE C AR		NUMBER TAB8-Ø-Ø
	SHEET 1 OF 1	DIST.		REV. B

D  
C  
B  
REV. B  
NUMBER TAB8-Ø-Ø  
SIZE CODE C AR



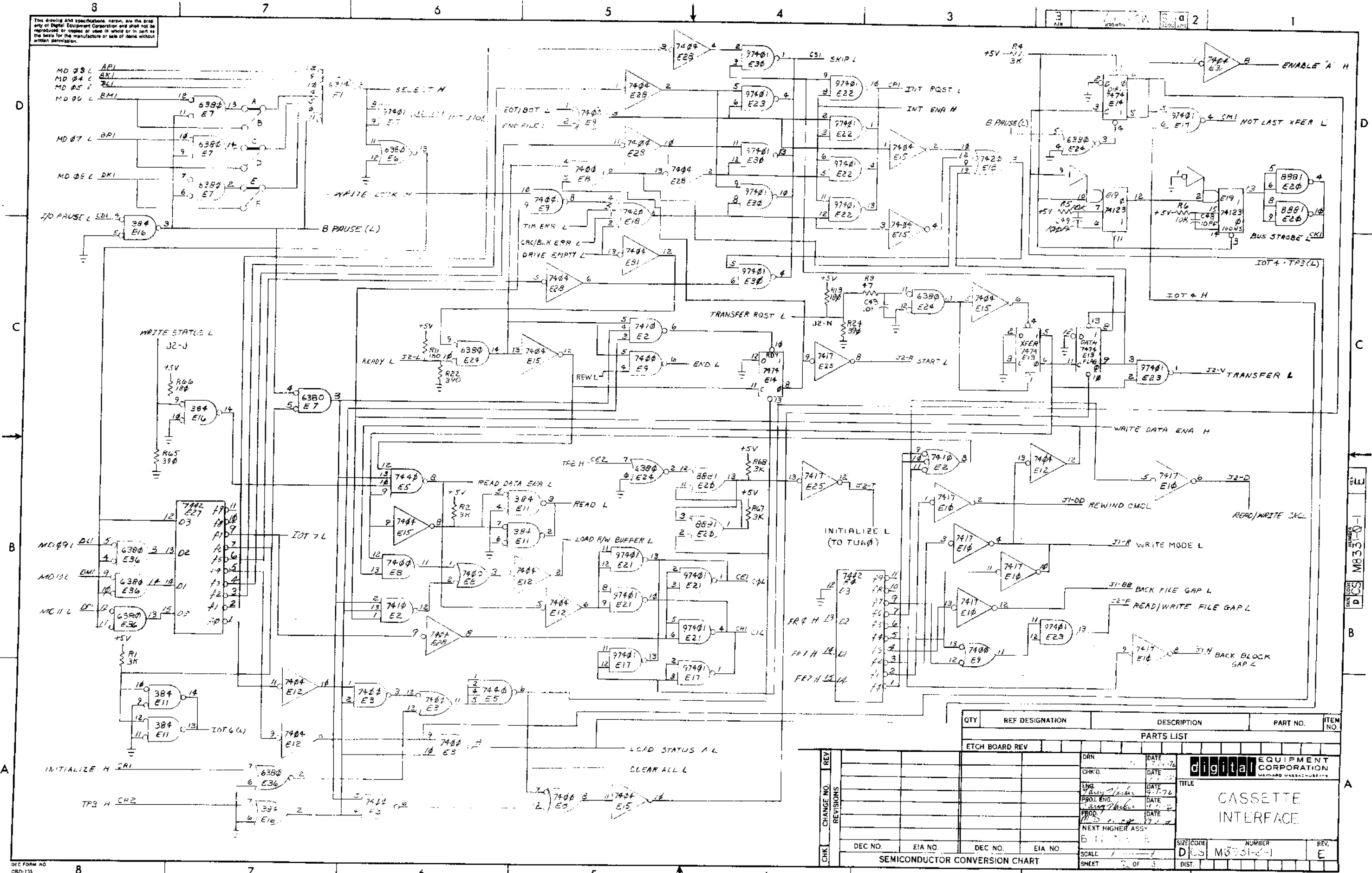








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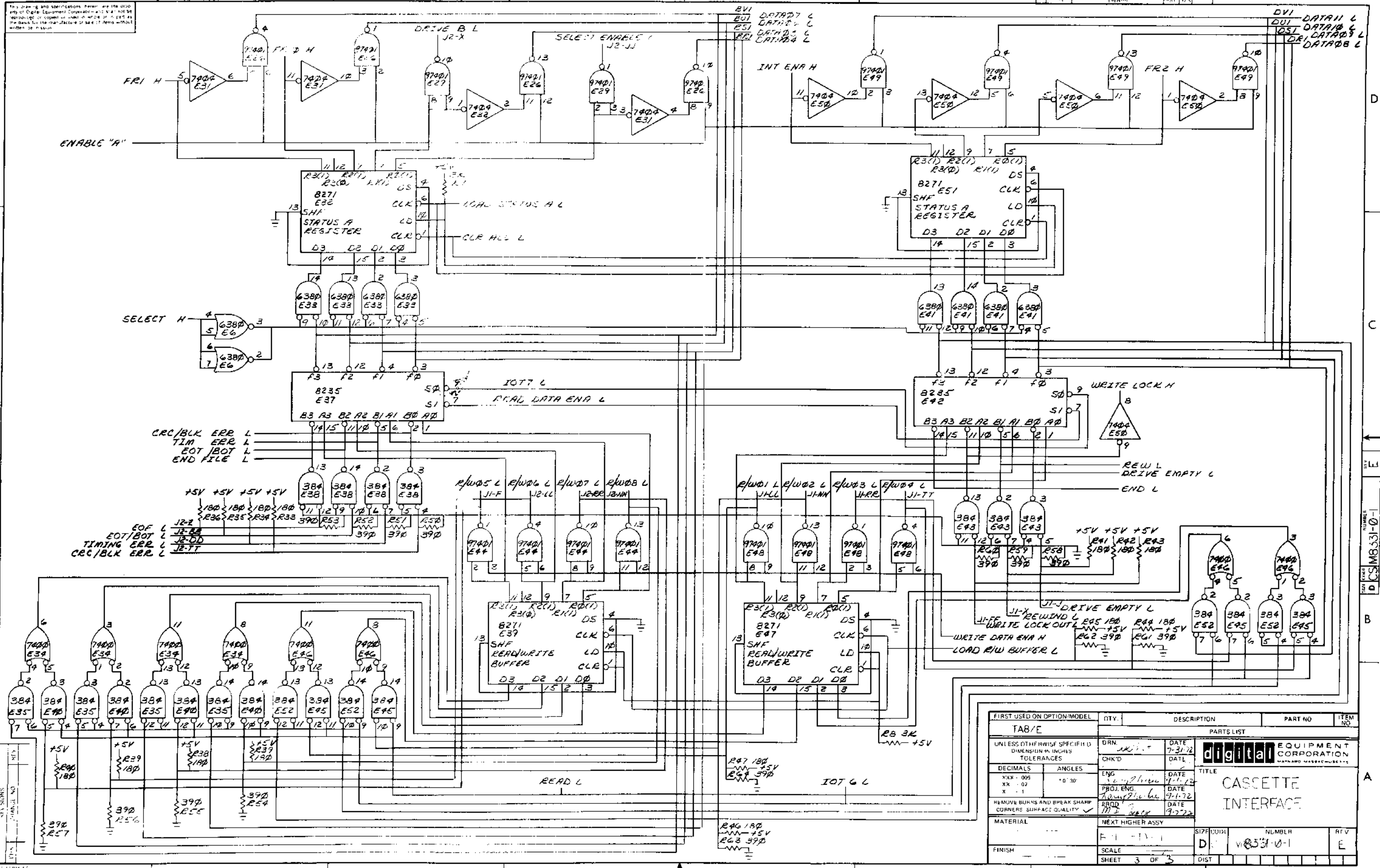
QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
ETCH BOARD REV				
REV	DATE	DRN	digital EQUIPMENT CORPORATION	
1	7-20-76	CHK'D	MAYNARD MASSACHUSETTS	
2	7-20-76	ENG	TITLE	
3	7-20-76	PROJ. ENG.	CASSETTE INTERFACE	
4	7-20-76	PROD. ENG.	SIZE CODE	
5	7-20-76	PROG.	NUMBER	
6	7-20-76	NEXT HIGHER ASSY	REV.	
7	7-20-76	DATE	E	
8	7-20-76	DATE	DIST.	
9	7-20-76	DATE	REV.	
10	7-20-76	DATE	REV.	
11	7-20-76	DATE	REV.	
12	7-20-76	DATE	REV.	
13	7-20-76	DATE	REV.	
14	7-20-76	DATE	REV.	
15	7-20-76	DATE	REV.	
16	7-20-76	DATE	REV.	
17	7-20-76	DATE	REV.	
18	7-20-76	DATE	REV.	
19	7-20-76	DATE	REV.	
20	7-20-76	DATE	REV.	

REV	DATE	DRN	DATE
1	7-20-76	CHK'D	7-20-76
2	7-20-76	ENG	7-20-76
3	7-20-76	PROJ. ENG.	7-20-76
4	7-20-76	PROD. ENG.	7-20-76
5	7-20-76	PROG.	7-20-76
6	7-20-76	NEXT HIGHER ASSY	7-20-76
7	7-20-76	DATE	7-20-76
8	7-20-76	DATE	7-20-76
9	7-20-76	DATE	7-20-76
10	7-20-76	DATE	7-20-76
11	7-20-76	DATE	7-20-76
12	7-20-76	DATE	7-20-76
13	7-20-76	DATE	7-20-76
14	7-20-76	DATE	7-20-76
15	7-20-76	DATE	7-20-76
16	7-20-76	DATE	7-20-76
17	7-20-76	DATE	7-20-76
18	7-20-76	DATE	7-20-76
19	7-20-76	DATE	7-20-76
20	7-20-76	DATE	7-20-76

DEC NO.	EIA NO.	DEC NO.	EIA NO.
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10
11	11	11	11
12	12	12	12
13	13	13	13
14	14	14	14
15	15	15	15
16	16	16	16
17	17	17	17
18	18	18	18
19	19	19	19
20	20	20	20

SIZE CODE  
 DCS  
 M8351-0-1  
 REV. 1





BRWING 4032 1584R  
 REV. 1-7-72  
 W 500 2

REV. E  
 PART NO. 8331-0-1  
 NUMBER 1

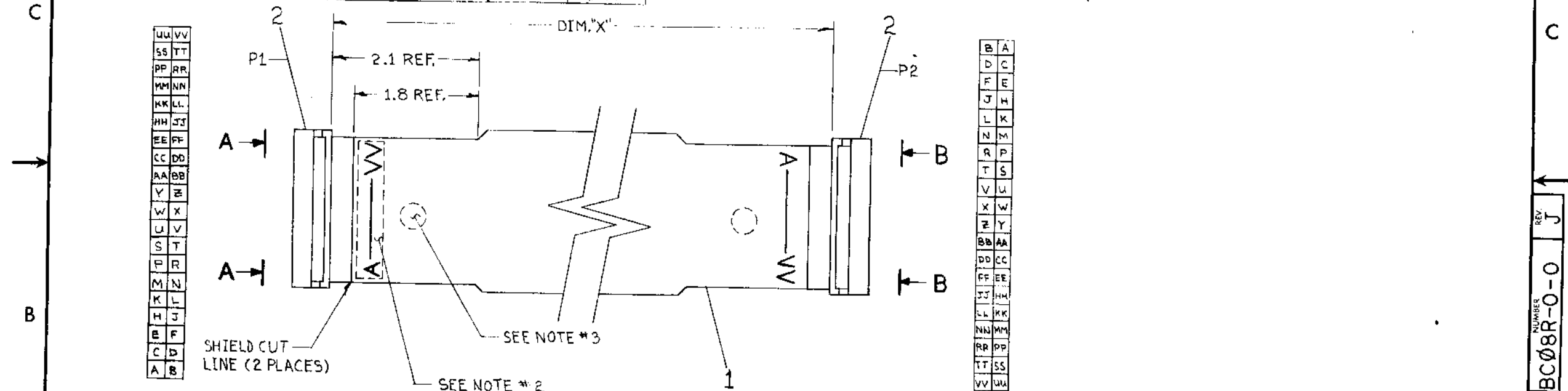
REV. E

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WIRE TABLE			
FROM	TO	FROM	TO
P1-A	P2-VV	P1-Y	P2-X
P1-B	P2-UV	P1-Z	P2-W
P1-C	P2-TT	P1-AA	P2-V
P1-D	P2-S	P1-PP	P2-U
P1-E	P2-R	P1-CC	P2-T
P1-F	P2-Q	P1-EE	P2-S
P1-G	P2-P	P1-NN	P2-R
P1-H	P2-O	P1-PP	P2-Q
P1-I	P2-N	P1-RR	P2-P
P1-J	P2-M	P1-SS	P2-O
P1-K	P2-L	P1-TT	P2-N
P1-L	P2-K	P1-SS	P2-M
P1-M	P2-J	P1-SS	P2-L
P1-N	P2-I	P1-SS	P2-K
P1-O	P2-H	P1-SS	P2-J
P1-P	P2-G	P1-SS	P2-I
P1-Q	P2-F	P1-SS	P2-H
P1-R	P2-E	P1-SS	P2-G
P1-S	P2-D	P1-SS	P2-F
P1-T	P2-C	P1-SS	P2-E
P1-U	P2-B	P1-SS	P2-D
P1-V	P2-A	P1-SS	P2-C
P1-W	P2-Z	P1-SS	P2-B
P1-X	P2-Y	P1-SS	P2-A

LEGEND		
NUMBER	DIM "X"	PRECUT LENGTH
BC08R-01	1 FT	1 FT 1.5 IN ± .01 IN
BC08R-02	2 FT	2 FT 1.5 IN ± .01 IN
BC08R-03	3 FT	3 FT 1.5 IN ± .01 IN
BC08R-04	4 FT	4 FT 1.5 IN ± .01 IN
BC08R-05	5 FT	5 FT 1.5 IN ± .01 IN
BC08R-06	6 FT	6 FT 1.5 IN ± .01 IN
BC08R-07	7 FT	7 FT 1.5 IN ± .01 IN
BC08R-08	8 FT	8 FT 1.5 IN ± .01 IN
BC08R-09	9 FT	9 FT 1.5 IN ± .01 IN
BC08R-10	10 FT	10 FT 1.5 IN ± .01 IN
BC08R-11	11 FT	11 FT 1.5 IN ± .01 IN
BC08R-12	12 FT	12 FT 1.5 IN ± .01 IN
BC08R-13	13 FT	13 FT 1.5 IN ± .01 IN
BC08R-14	14 FT	14 FT 1.5 IN ± .01 IN
BC08R-15	15 FT	15 FT 1.5 IN ± .01 IN
BC08R-16	16 FT	16 FT 1.5 IN ± .01 IN
BC08R-17	17 FT	17 FT 1.5 IN ± .01 IN
BC08R-18	18 FT	18 FT 1.5 IN ± .01 IN
BC08R-19	19 FT	19 FT 1.5 IN ± .01 IN
BC08R-20	20 FT	20 FT 1.5 IN ± .01 IN
BC08R-21	21 FT	21 FT 1.5 IN ± .01 IN
BC08R-22	22 FT	22 FT 1.5 IN ± .01 IN
BC08R-23	23 FT	23 FT 1.5 IN ± .01 IN
BC08R-24	24 FT	24 FT 1.5 IN ± .01 IN
BC08R-25	25 FT	25 FT 1.5 IN ± .01 IN
BC08R-26	26 FT	26 FT 1.5 IN ± .01 IN
BC08R-27	27 FT	27 FT 1.5 IN ± .01 IN
BC08R-28	28 FT	28 FT 1.5 IN ± .01 IN
BC08R-29	29 FT	29 FT 1.5 IN ± .01 IN
BC08R-30	30 FT	30 FT 1.5 IN ± .01 IN
BC08R-31	31 FT	31 FT 1.5 IN ± .01 IN
BC08R-32	32 FT	32 FT 1.5 IN ± .01 IN
BC08R-33	33 FT	33 FT 1.5 IN ± .01 IN
BC08R-34	34 FT	34 FT 1.5 IN ± .01 IN
BC08R-35	35 FT	35 FT 1.5 IN ± .01 IN
BC08R-36	36 FT	36 FT 1.5 IN ± .01 IN
BC08R-37	37 FT	37 FT 1.5 IN ± .01 IN
BC08R-38	38 FT	38 FT 1.5 IN ± .01 IN
BC08R-39	39 FT	39 FT 1.5 IN ± .01 IN
BC08R-40	40 FT	40 FT 1.5 IN ± .01 IN
BC08R-41	41 FT	41 FT 1.5 IN ± .01 IN
BC08R-42	42 FT	42 FT 1.5 IN ± .01 IN
BC08R-43	43 FT	43 FT 1.5 IN ± .01 IN
BC08R-44	44 FT	44 FT 1.5 IN ± .01 IN
BC08R-45	45 FT	45 FT 1.5 IN ± .01 IN
BC08R-46	46 FT	46 FT 1.5 IN ± .01 IN
BC08R-47	47 FT	47 FT 1.5 IN ± .01 IN
BC08R-48	48 FT	48 FT 1.5 IN ± .01 IN
BC08R-49	49 FT	49 FT 1.5 IN ± .01 IN
BC08R-50	50 FT	50 FT 1.5 IN ± .01 IN

- NOTES:
- ASSEMBLE THIS CABLE PER PROCESS SPEC #7606485-0-0.
  - CONNECTOR LEGEND IDENTIFICATION TO BE PLACED ON SHIELD SIDE OF CABLE IN THIS AREA AS SHOWN.
  - INSPECTION & TEST STAMPS TO BE PLACED AT EACH END OF THE CABLE ASSEMBLY.



VIEW A-A  
CONN. LEGEND REF.

VIEW B-B  
CONN. LEGEND REF.

REV.	CHANGE NO.	REV.
J	BC08R-00004	J
	REVISED & REDRAWN	
	<i>P. Gardner</i> 7-16-73	
	P. GARDNER	
	<i>P. Gardner</i> 7-17-73	

QTY.	DESCRIPTION	PART NO.	ITEM NO.
2	CONNECTOR, 40 SOCKET	1211206	2
A/R	CABLE, 40 COND. FLAT W/SHIELD	1700004	1

PARTS LIST			
DRN.	D. FONTAINE	DATE	8-28-70
CHK'D.	J. FLEMING	DATE	8-28-70
ENG.	P. GARDNER	DATE	9-3-70
PROJ. ENG.	P. GARDNER	DATE	9-3-70
PROD.	DONALD	DATE	9-4-70

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES		TOLERANCES	
DECIMALS	ANGLES		
.xxx = .005	±0° 30'		
.xx = .02			
.x = .1			
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY Y			
MATERIAL	NEXT HIGHER ASSY.		
FINISH	SCALE NONE		
SHEET 1 OF 1		DIST.	

TITLE		BC08R IO CABLE	
SIZE CODE	NUMBER	REV.	
C UA	BC08R-0-0	J	

SIZE CODE C UA  
NUMBER BC08R-0-0  
REV. J

**DIGITAL EQUIPMENT CORPORATION  
MAYNARD, MASSACHUSETTS**

**ENGINEERING SPECIFICATION**

DATE 8/21/72

TA8-E CASSETTE SYSTEM INTERFACE

**REVISIONS**

REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE
A	CHANGE PER ECO	TA8-00001	NARHI	12/72	<i>L. Narhi</i>	1/16
B	CHANGE PER ECO	TA8-00002	NARHI	8/73	<i>L. Narhi</i>	8/31/73

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ENG Larry Narhi	APPD <i>L. Narhi</i>	SIZE <b>A</b>	CODE SP	NUMBER TA8-0-3	REV B
--------------------	-------------------------	------------------	------------	-------------------	----------

**ENGINEERING SPECIFICATION**

**010101**

CONTINUATION SHEET

TITLE TA8-E CASSETTE SYSTEM INTERFACE

1. Overall Description

The TA8-E is an interface between a PDP8/E, M or F computer and the TU60 cassette drives. The tape format is: 8-bit serial word, programmable block length, and up to 92K, (see graph at end of spec.) 8-bit words per cassette cartridge of the Phillips type.

2. General Description

- 2.1 The basic system consists of one TU60 (Dual Drive) and one interface module, the M8331, and interface cables 2-BC08R-10.
- 2.2 Two cassette drives are contained in one chassis.

The cassette system, TA8-E, has the following variations:

- TA8-AA - M8331 module & TU60-AA, Rack Mount, 115VAC
- TA8-AB - M8331 module & TU60-AB, Rack Mount, 230VAC

Jumpers on the interface card can be arranged to select IOT codes 70 through 77. Code 70 for the first TU60, and code 77 for the eighth, or last TU60.

- 2.3 The entire interface is contained on one 8 1/2" quad module.
- 2.4 Operating temperature is 0° to 55°C and 15% to 90% relative humidity, non-condensing. Power required is +5.0 volts at 2.4 amps for the M8331, and 1.5 amp at 120VAC for the TU60 drive.

3. Specifications of Vendor Supplied Equipment

See purchase spec for applicable board components.

4. Programming

SIZE <b>A</b>	CODE SP	NUMBER TA8-0-3	REV B
------------------	------------	-------------------	----------

TITLE TA8-E CASSETTE SYSTEM INTERFACE

## 4.1 The IOT codes for the TA8-E are as follows:

Mnemonic	Octal	Function
KCLR	67X0	Clear all. Clears Status A and B registers. See note below.
KSDR	67X1	Skip on Data flag, for either a read or a write.
KSEN	67X2	Skip on, EOT/BOT or EOF or Drive Empty or Timing Error, Block Error or Write Lock and "Write" True.
KSBF	67X3	Skip on Ready Flag.
KLSA	67X4	Load Status A from AC 4-11, clear AC, load complement Status A back into AC.
KSAF	67X5	Skip on any flag or error condition.
KGOA	67X6	Assert the contents of Status A, transfer data into the AC for a read, out of the AC into the Read/Write buffer for a write. This command has three functions: <ol style="list-style-type: none"> <li>Causes the command in Status A register to be executed by the TU60;</li> <li>For a Read command the first KGOA causes the tape to start moving, then upon receipt of the data flag, the second KGOA loads the first byte into the AC;</li> <li>For a write command, Status A is set up for a Write, the AC is loaded with the first byte to be written and then KGOA is issued which causes the tape to move and to write the first byte on tape.</li> </ol>
KRSB	67X7	Read Status B into AC 4-11.

TITLE TA8-E CASSETTE SYSTEM INTERFACE

## Status A register definition:

AC Bit	Function
11	Enable Interrupts
10	Not used
09	Not used
08 } 07 } 06 }	Function Register
05	Drive B 0=A, 1=B
04	Select Enable

NOTE: Upon selection of a drive, "Ready" and "EOT/BOT" flags will appear in Status B. EOT/BOT will only appear obviously, if the tape is at EOT or BOT.

## Function Register

000	- Read
001	- Rewind
010	- Write
011	- Backspace to File Gap
100	- Write Gap
101	- Backspace Block Gap
110	- Read/Write CRC Character
111	- Space Forward File Gap

## Status "B" Register Definition:

AC Bit	Function
11	Ready flag
10	Write lock out
09	Rewind
08	Drive empty
07	End of file flag
06	EOT/BOT
05	Timing Error
04	CRC/Block error

4.2 There are no maintenance instructions.

SIZE	CODE	NUMBER	REV
A	SP	TA8-0-3	B

SHEET 3 OF 7

SIZE	CODE	NUMBER	REV
A	SP	TA8-0-3	B

SHEET 4 OF 7



TITLE TA8-E CASSETTE SYSTEM INTERFACE

- Error Flags:** These will appear at the end of the block if true, but timing error flag will be raised when it occurs. Error flags are cleared by KGOA.
- Drive Empty:** The bit in Status B will be a one if there is no cassette in the drive. The skip and interrupt tests will occur if the drive is empty.
- EOT/BOT:** This flag will be true whenever the optical sensors have detected clear leader/trailer. Bit is held false for 125 ms after a motion command to allow tape to move off clear leader/trailer.
- Rewind:** Will remain true as long as drive is rewinding and is selected.
- Write Lock Out:** Bit is true in Status B if tab is missing on cassette or the Drive is empty or Drive is rewinding. Bit will not interrupt or skip unless attempting a Write command.
- Ready Flag:** This bit is asserted in Status B when a drive is selected and is able to accept commands from the interface. This bit is false when commands are being executed.
- Data Flag:** This flag appears for every byte including the two CRC bytes. Flag is cleared by KGOA. Flag timing averages 1.78 ms per flag.

4.5 There are no operator controls on the interface.

SIZE A	CODE SP	NUMBER TA8-0-3	REV B
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TITLE TA8-E CASSETTE SYSTEM INTERFACE

## 5. Interface Specifications

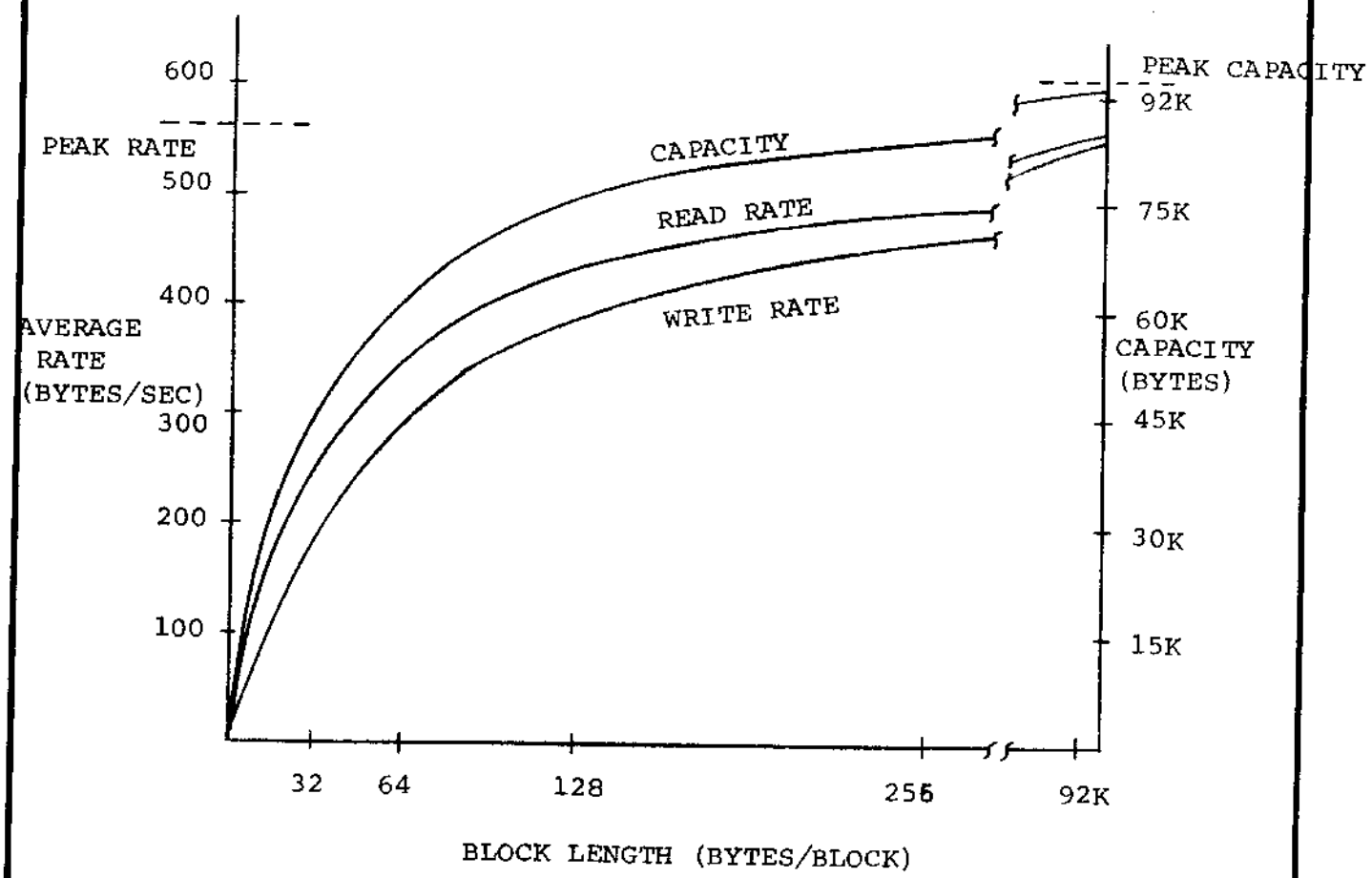
All signals leaving the interface going to the cassette drives are open collector Nand gates type 97401. All signals from the cassette drives are received with Untilogic gates type SP380 or equivalent. Both drivers and receivers are terminated with a 390 ohm resistor to ground and a 180 ohm resistor to +5.0 volts, at the interface end only.

The one exception is "START". This line has a 390 ohm resistor to ground at the interface and a 180 ohm resistor at the TU60, to +5 volts.

All signals to and from the cassette drive are low true levels including Status B bits. The only exception is the Read/Write level. Read is true when the level is at +3 volts. Write is true when the level is at 0 volts.

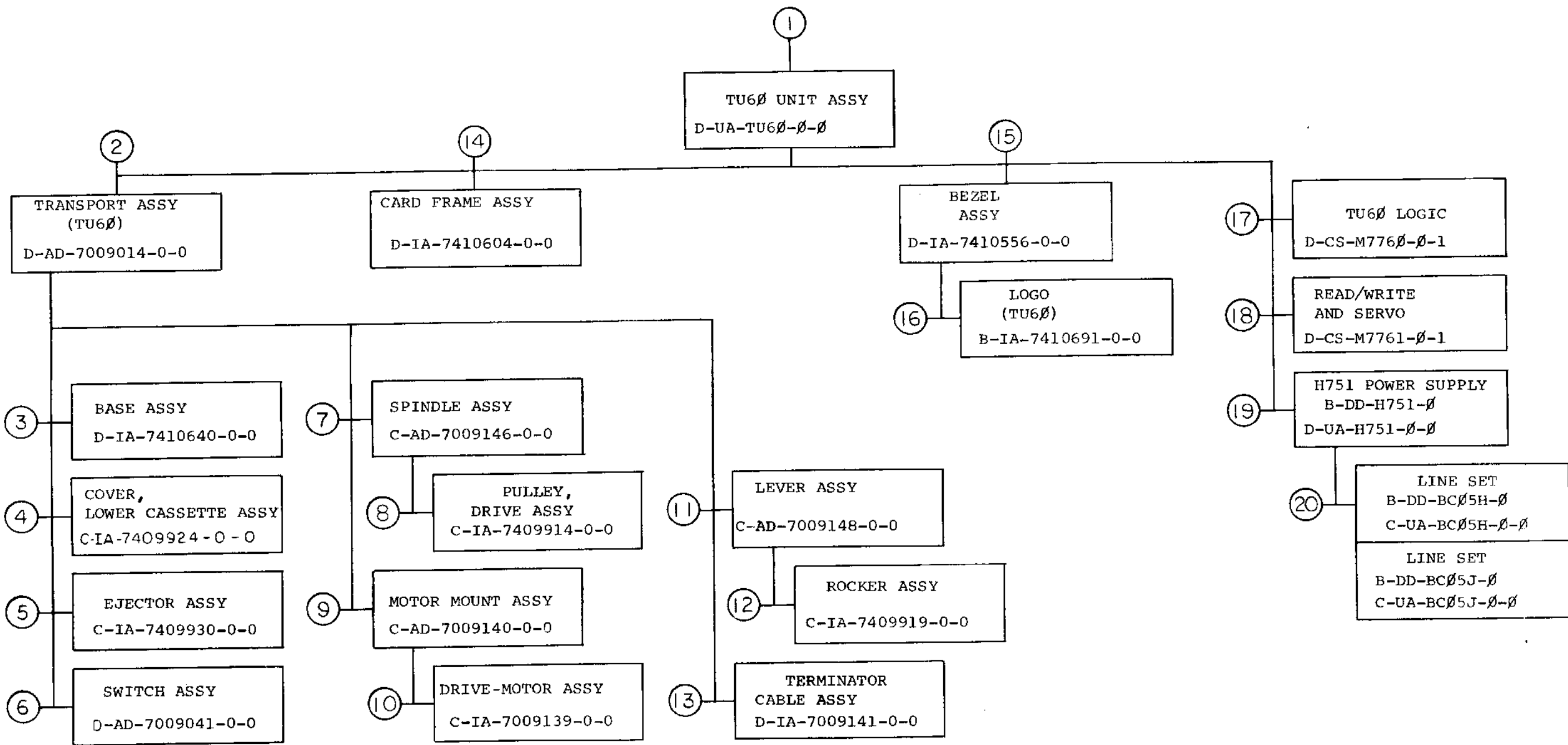
SIZE A	CODE SP	NUMBER TA8-0-3	REV B
-----------	------------	-------------------	----------

TITLE



SIZE A	CODE SP	NUMBER TA8-Ø-3	REV B
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TITLE	SHEET	OF	SIZE	CODE	NUMBER	REV
TU60 DECASSETTE	SHEET 2	OF 4	B	DD	TU60-0	B



CUSTOMER PRINT SET	ELECTRICAL					CUSTOMER PRINT SET	MECHANICAL				
	FINI NO.	DRAWING NO.	REV	NO OF SHT	OPTION NO./FILE DATE		FINI NO.	DRAWING NO.	REV	NO OF SHT	OPTION NO./FILE DATE
X	1	D-WD-TU6 $\beta$ - $\beta$ -WD		1	CASSETTE DRIVE WIRING DIAGRAM	X	1	D-UA-TU6 $\beta$ - $\beta$ - $\beta$	B	2	TU6 $\beta$ UNIT ASSEMBLY
						X		A-PL-TU6 $\beta$ - $\beta$ - $\beta$	B	2	TU6 $\beta$ UNIT ASSEMBLY
								E-IA-7409943-0-0		2	CHASSIS (TU6 $\beta$ )
								D-IA-7409990-0-0		1	PLATE, CHASSIS, FRONT (TU6 $\beta$ )
								E-MD-7409941-0-0		1	COVER, CHASSIS
X	13	D-IA-7009041-0-0		1	TERMINATOR CABLE ASSY			C-MD-7409904-0-0		1	BRACKET, SYMMETRICAL
		D-CS-5410135-0-1		2	TERMINATOR, CASSETTE DRIVE			B-MD-7409933-0-0		1	EUSHING, PIVOT
								D-UA-BC $\beta$ 5L- $\beta$ - $\beta$		1	CABLE, JUMPER
								D-PS-1210931-0-0		1	BLOCK, CABLE RETAINING
								C-MD-7410690-0-0		1	BRACKET, SHIPPING
								D-PS-1209154-0-0		1	CHASSIS-TRAK
X	17	D-CS-M776 $\beta$ - $\beta$ -1		4	TU6 $\beta$ LOGIC						
						X	2	D-AD-7009014-0-0		2	TRANSPORT ASSY (TU6 $\beta$ )
X	18	D-CS-M7761- $\beta$ -1		5	READ/WRITE AND SERVO	X		A-PL-7009014-0-0		3	TRANSPORT ASSY (TU6 $\beta$ )
								C-MD-7409911-0-0		1	SPACER, TAPE GUIDE
								C-MD-7409912-0-0		1	GUIDE, TAPE
								C-MD-7409928-0-0		1	BRACKET, SOLENOID
								C-MD-7409908-0-0		1	PLATE, HEAD MOUNT
C	19	B-DD-H751- $\beta$		3	H751 POWER SUPPLY			B-MD-7410518-0-0		1	BUTTON, REWIND SWITCH
		D-UA-H751- $\beta$ - $\beta$		2	H751 POWER SUPPLY			B-MD-7410519-0-0		1	BRACKET, REWIND SWITCH
		E-IA-5310191-0-0		1	CHASSIS, POWER SUPPLY			C-MD-7410537-0-0		1	SPRING, LOCK BAR
								B-MD-7410544-0-0		1	SPACER, E.O.T. BLOCK
								D-PS-1211279-0-0		1	COUPLING, CASSETTE DRIVE (3MM)
								D-MD-7409917-0-0		1	LOCK-BAR, CASSETTE
								D-PS-1211289-0-0		1	SENSOR ASSY
	20	B-DD-BC $\beta$ 5H- $\beta$		3	LINE SET			B-MD-7409929-0-0		1	BRACKET, TERMINAL BOARD
		C-UA-BC $\beta$ 5H- $\beta$ - $\beta$		1	LINE SET BC $\beta$ 5H (115V)						
		C-UA-BC $\beta$ 5J- $\beta$ - $\beta$		1	LINE SET BC $\beta$ 5J (230V)						
						X	3	D-IA-7410640-0-0		1	BASE ASSEMBLY
								E-MD-7409835-0-0		1	BASE, CASSETTE TRANSPORT (MACH)
								B-MD-7409938-0-0		1	BUSHING, ROCKER
								B-MD-7410553-0-0		1	SHIM, SKEW
								C-MD-7410539-0-0		1	PIN, ANCHOR
								C-MD-7409934-0-0		1	PIN, SPRING, MOTOR BIAS
								E-PS-1211122-0-0		1	BASE, CASSETTE TRANSPORT (CAST)

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: TU6 $\beta$  DECASSETTE  
SHEET 3 OF 4  
SIZE CODE: B DD  
NUMBER: TU6 $\beta$ - $\beta$   
REV: B

CUSTOMER PRINT SET		MECHANICAL					CUSTOMER PRINT SET		MECHANICAL						
TU6Ø-Ø	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE	TU6Ø-Ø	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
		4	C-IA-7409924-0-0		1	COVER, LOWER CASSETTE ASSY		X		10	C-IA-7009139-0-0		1	DRIVE-MOTOR ASSY	
			C-MD-7409905-0-0		1	COVER, LOWER CASSETTE					C-MD-7409913-0-0		1	SLEEVE, MOTOR	
			C-MD-7410541-0-0		1	PIN, SPRING, COVER, CASSETTE									
			B-MD-7410552-0-0		1	LENS									
		5	C-IA-7409930-0-0		1	EJECTOR ASSY		X		11	C-AD-7009148-0-0		1	LEVER ASSY	
			C-MD-7409907-0-0		1	EJECTOR					C-MD-7409931-0-0		1	LEVER, ROCKER	
			B-MD-7410543-0-0		1	ROLLER, EJECTOR					B-MD-7409932-0-0		1	ROLLER, IDLER	
X		6	D-AD-7009141-0-0		1	SWITCH ASSY				12	C-IA-7409919-0-0		1	ROCKER ASSY	
			C-MD-7409926-0-0		1	BLOCK, SWITCH					C-MD-7409916-0-0		1	PLATE, ROCKER	
			C-MD-7409935-0-0		1	SPACER, MICRO SWITCH					B-MD-7409921-0-0		1	SLEEVE, ROCKER	
											B-MD-7409922-0-0		1	SHAFT, IDLER	
X		7	C-AD-7009146-0-0		1	SPINDLE ASSY				14	D-IA-7410604-0-0		1	CARD FRAME ASSY	
			D-MD-7410509-0-0		1	COUPLING, CASSETTE DRIVE (2MM)					E-MD-7409942-0-0		1	FRAME, CARD	
			C-MD-7410692-0-0		1	BEARING, SPINDLE					C-MD-7410587-0-0		1	STAND-OFF, THREADED	
		8	C-IA-7409914-0-0		1	PULLEY, DRIVE ASSY				15	D-IA-7410556-0-0		1	BEZEL ASSY	
			C-MD-7410535-0-0		1	PULLEY, DRIVE					C-MD-7409882-0-0		1	ADAPTER, BEZEL	
			C-MD-7410527-0-0		1	SPINDLE					D-MD-7410579-0-0		1	INLAY, BEZEL	
											D-CS-1209226-0-0		1	BEZEL 5 1/4"	
X		9	C-AD-7009140-0-0		1	MOTOR MOUNT ASSY				16	B-IA-7410691-0-0		1	LOGO (TU6Ø)	
			C-MD-7409915-0-0		1	PIVOT, MOTOR					A-SS-7410691-0-1		1	SILK SCREEN	
			C-MD-7409910-0-0		1	MOUNT, MOTOR									
										19	B-DD-H751-Ø		3	H751 POWER SUPPLY	
											D-UA-H751-Ø-Ø		2	H751 POWER SUPPLY	
											E-IA-5310191-0-0		1	CHASSIS, POWER SUPPLY	

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

TITLE

TU6Ø DECASSETTE

SHEET 4 OF 4

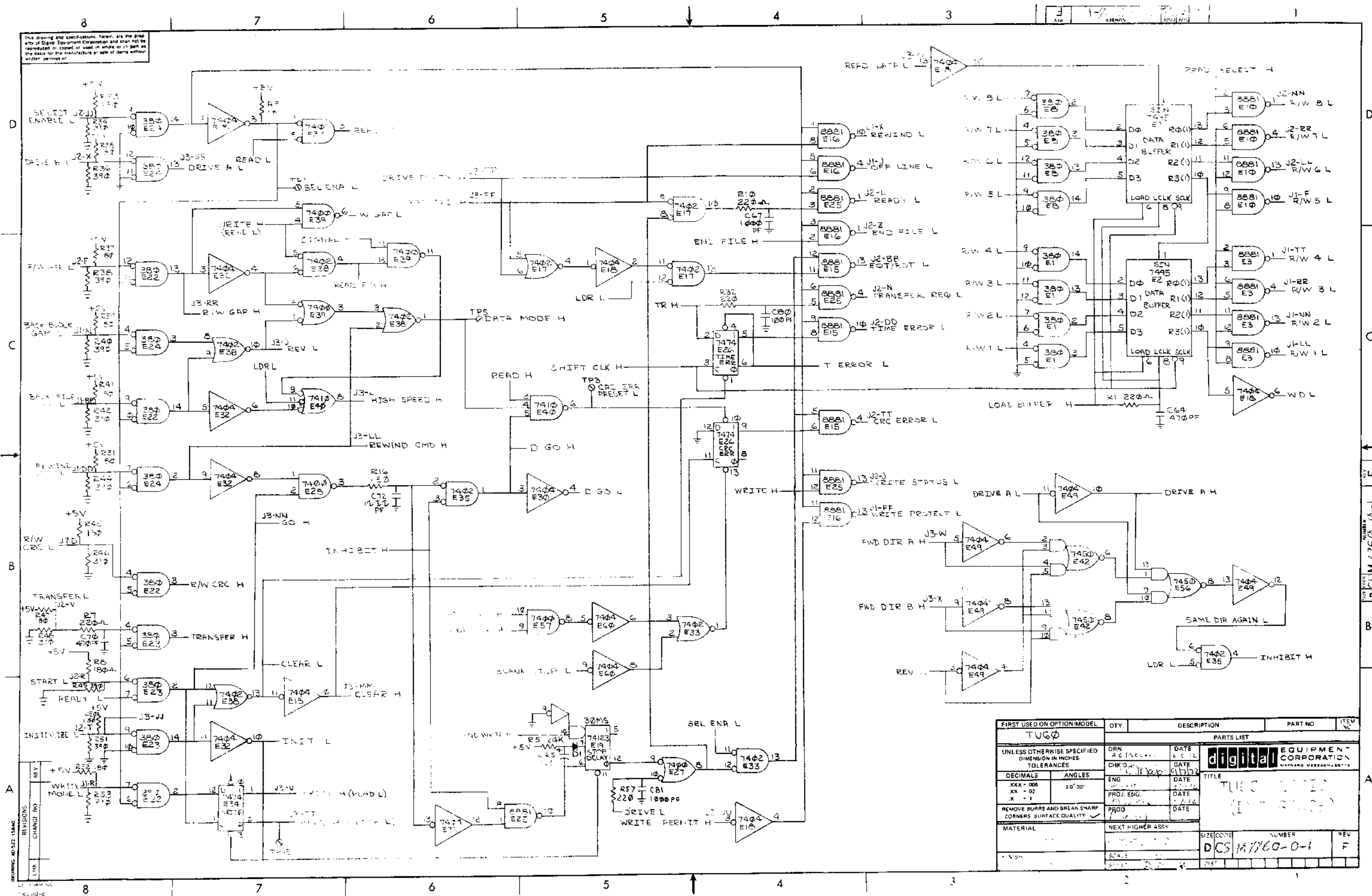
SIZE CODE  
 B DD

NUMBER  
 TU6Ø-Ø

REV  
 B



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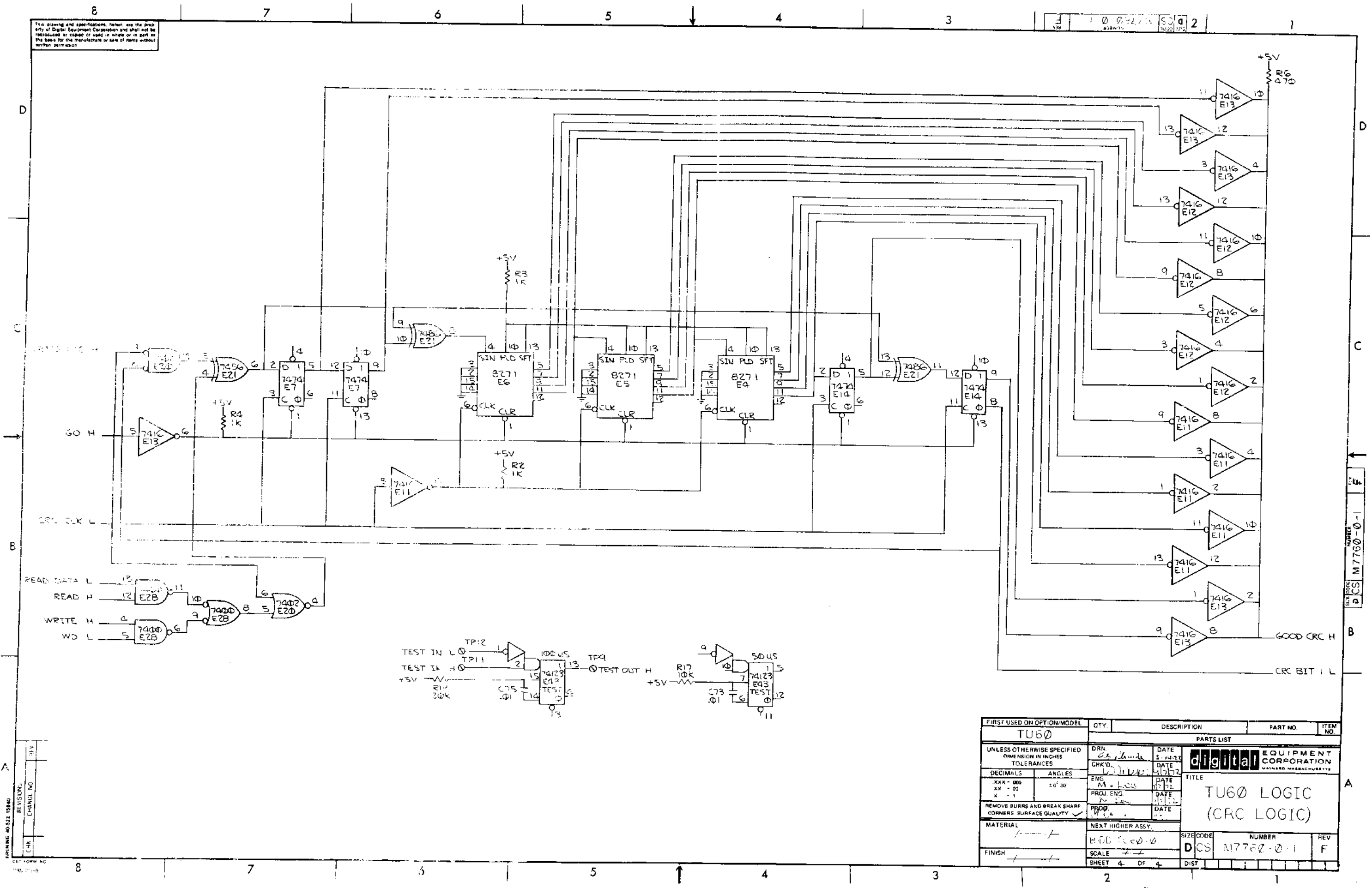
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
TUG0				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES				
DECIMALS	ANGLES	PARTS LIST		
.XXX - .006	±0° 30'	<b>digital</b> EQUIPMENT CORPORATION TITLE TUG0 (1)		
.XX - .02				
.X - .1				
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL	NEXT HIGHER ASSY	SIZE/CODE	NUMBER	REV
			DCS M1760-0-1	F

DRAWING 40522 15840



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1 0 77275 50 2



REV	NO	DATE

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
TU60				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRN. <i>Ch. [Signature]</i>	DATE 8-14-77	 <b>digital EQUIPMENT CORPORATION</b> <small>WATKINS MASSACHUSETTS</small>
DECIMALS ANGLES		CHK'D. <i>[Signature]</i>	DATE 1-7-77	
XXX - 005 XX - 02 X - 1		ENG. <i>[Signature]</i>	DATE 12-72	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		PROJ. ENG. <i>[Signature]</i>	DATE 11-72	
MATERIAL		PROD. <i>[Signature]</i>	DATE 11-72	
FINISH		NEXT HIGHER ASSY.	SIZE CODE	NUMBER
		BDD TU60-0	DCS	M7727-0-1
		SCALE 1:1		REV F
		SHEET 4 OF 4	DIST	

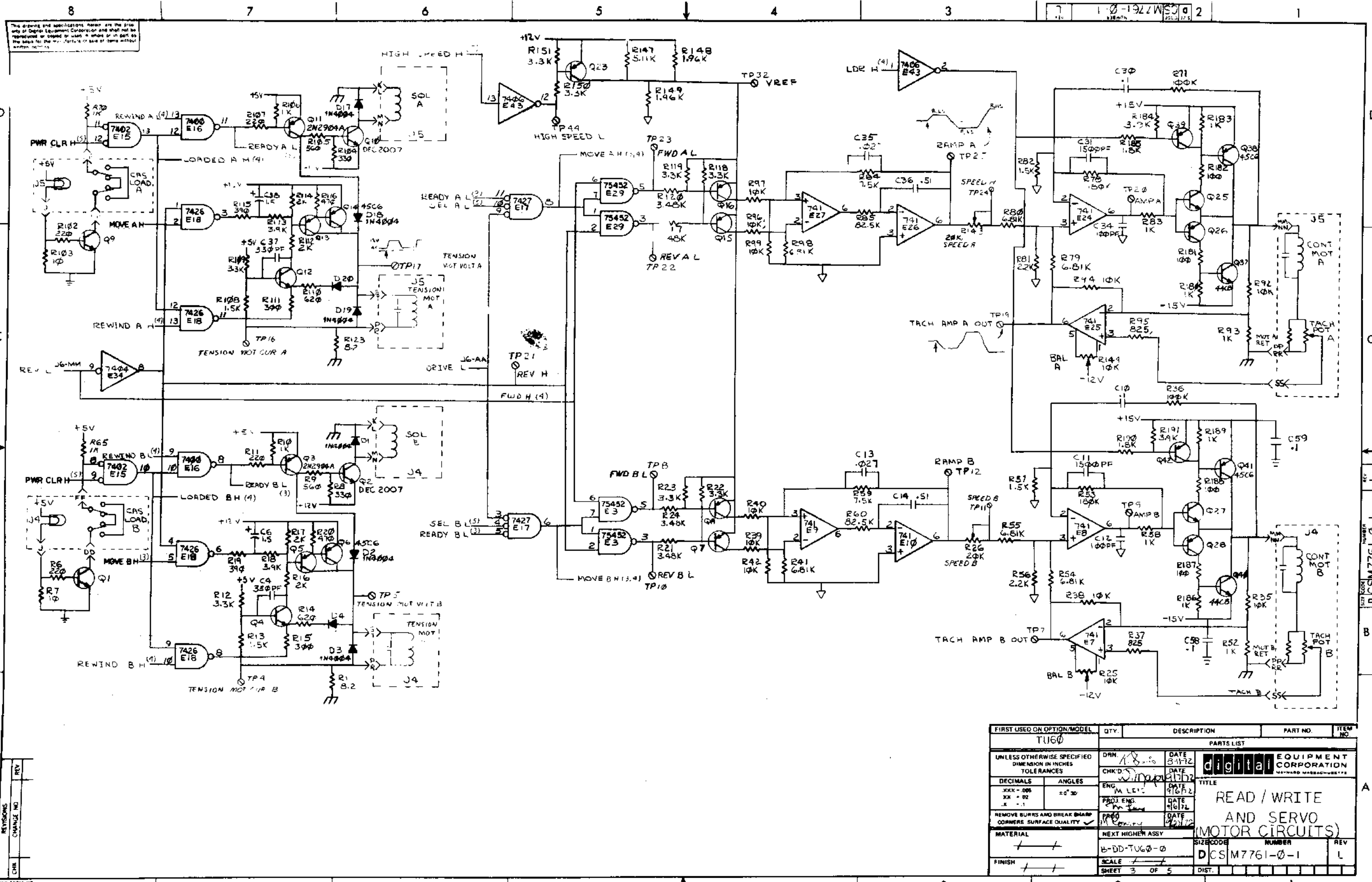
DCS M7727-0-1  
 NUMBER  
 M7727-0-1

BRUNING 40-522 15840  
 REV. 10-77  
 110-01-01









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FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
TUG0		PARTS LIST		
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN. 3-1-72	DATE 3-1-72	digital EQUIPMENT CORPORATION	
DECIMALS ANGLES	CHK'D 3-1-72	DATE 3-1-72	TITLE	
XXX - 008 ±0.00	ENG. M. L. E.	DATE 9/26/72	READ / WRITE AND SERVO (MOTOR CIRCUITS)	
XX - 02 ±0.02	PROJ. ENG. M. L. E.	DATE 10/17/72	NUMBER	
X - 1 ±0.1	PROD. M. L. E.	DATE 9/21/72	SIZE CODE	
REMOVE BURRS AND BREAK SHARP CORNERS. SURFACE QUALITY			DCSM7761-0-1	
MATERIAL	NEXT HIGHER ASSY		REV	
FINISH	B-DD-TUG0-0		L	
	SCALE		DIST.	
	SHEET 3 OF 5			

REVISIONS  
 REV. NO. CHANGE NO. DATE  
 1  
 2  
 3

REV. NO. CHANGE NO. DATE  
 1  
 2  
 3

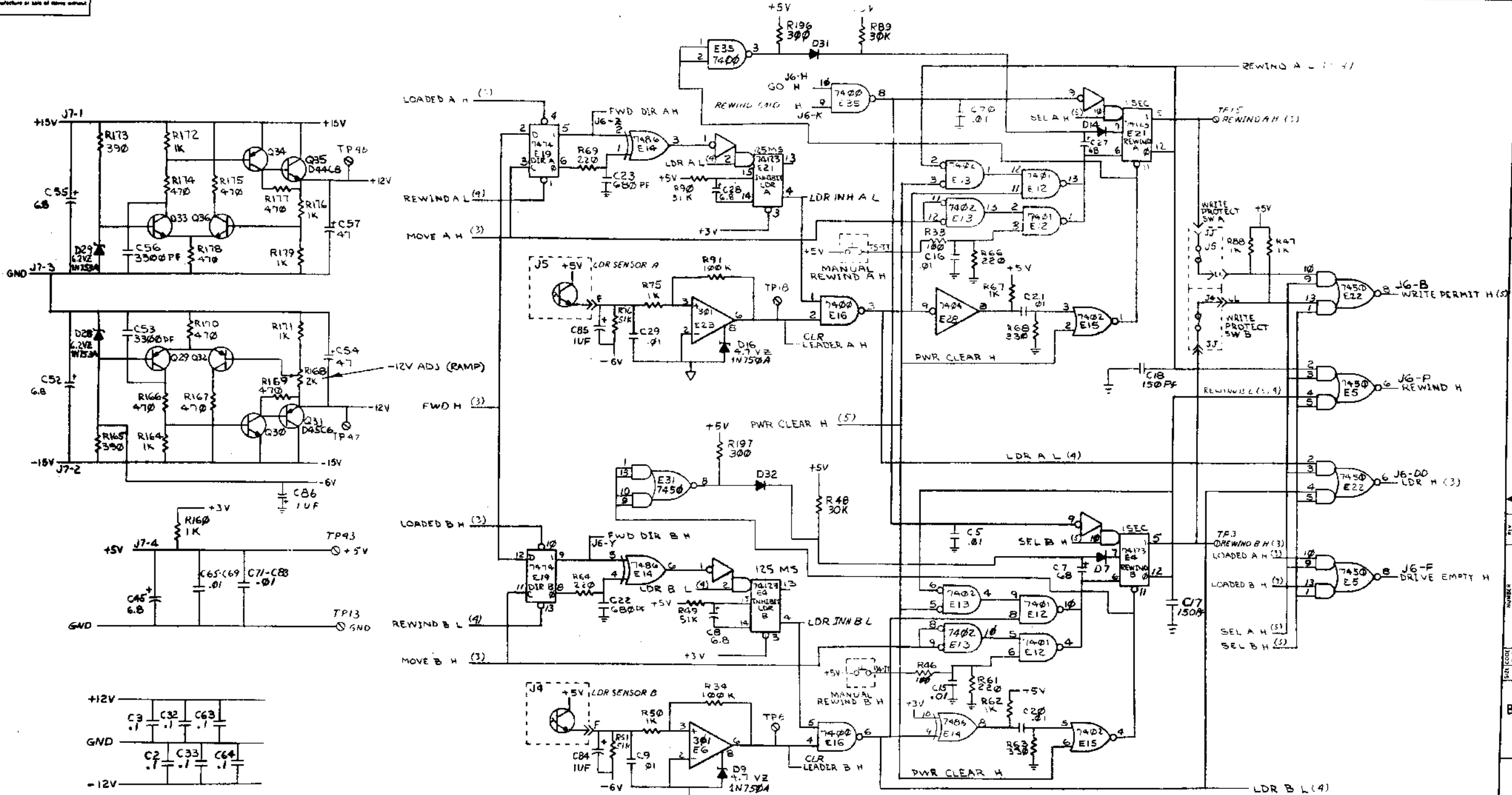
REV. NO. CHANGE NO. DATE  
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 2  
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REV. NO. CHANGE NO. DATE  
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 2  
 3

REV. NO. CHANGE NO. DATE  
 1  
 2  
 3

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10-1922W50-2



+5V — J4-W, X, J5-W, X, J6-S, T, U, V.  
 GND — J4-A, C, E, H, K, L, Y, Z, AA, BB, PP, RR.  
 J5-A, C, E, H, K, L, Y, Z, AA, BB, PP, RR.  
 J6-EE, FF, HH, JU.

REV	DESCRIPTION

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
TU60				
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES. TOLERANCES				
DECIMALS	ANGLES	PARTS LIST		
.XXX - .008	±0°30'	DATE	DATE	DATE
.XX - .01		9/27/72	9/27/72	9/27/72
.X - .1		DATE	DATE	DATE
REMOVE BURRS AND BREAK SHARP CORNERS. SURFACE QUALITY		9/26/72	9/26/72	9/26/72
MATERIAL	NEXT HIGHER ASSY.	TITLE		
	B-00-TU60-3	READ/WRITE AND SERVO (REWIND/REG)		
FINISH	SCALE	SIZE CODE	NUMBER	REV.
	SHEET 4 OF 5	DCS	M7761-0-1	L

DRAWING NO. 10-1922W50-2

PART NO. DCSM7761-0-1

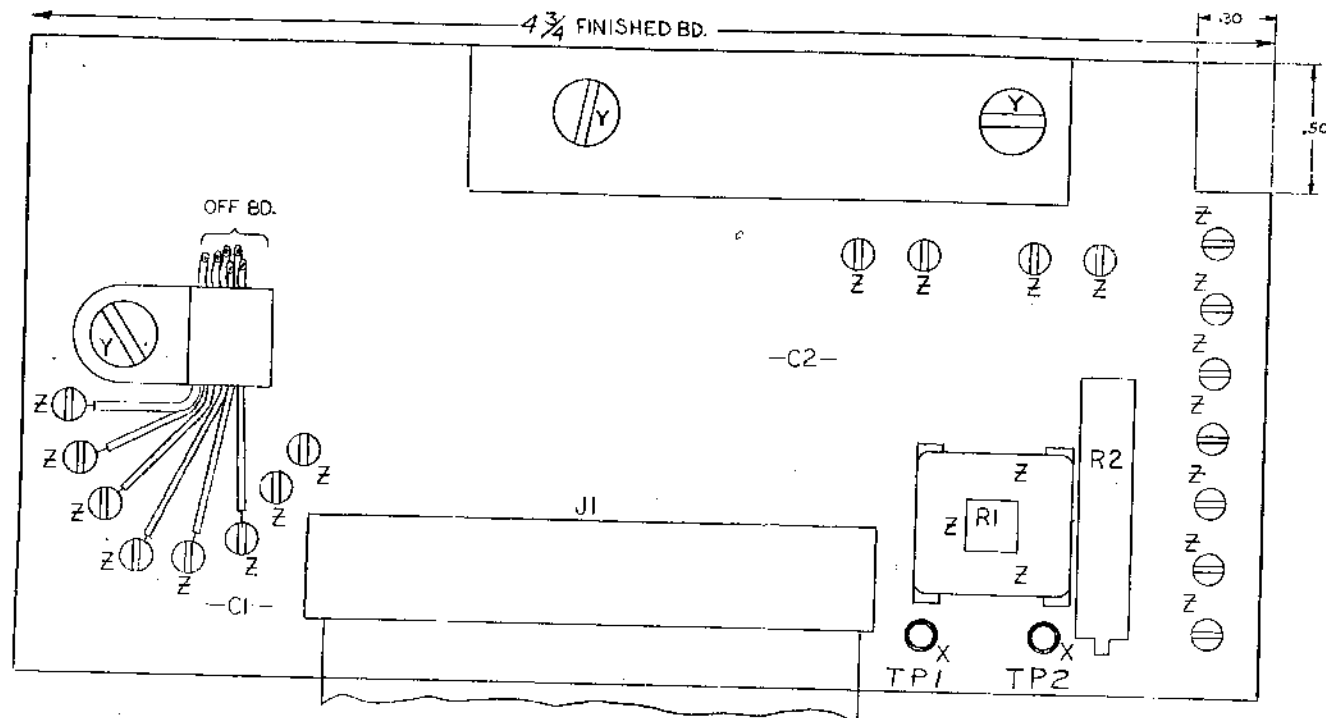
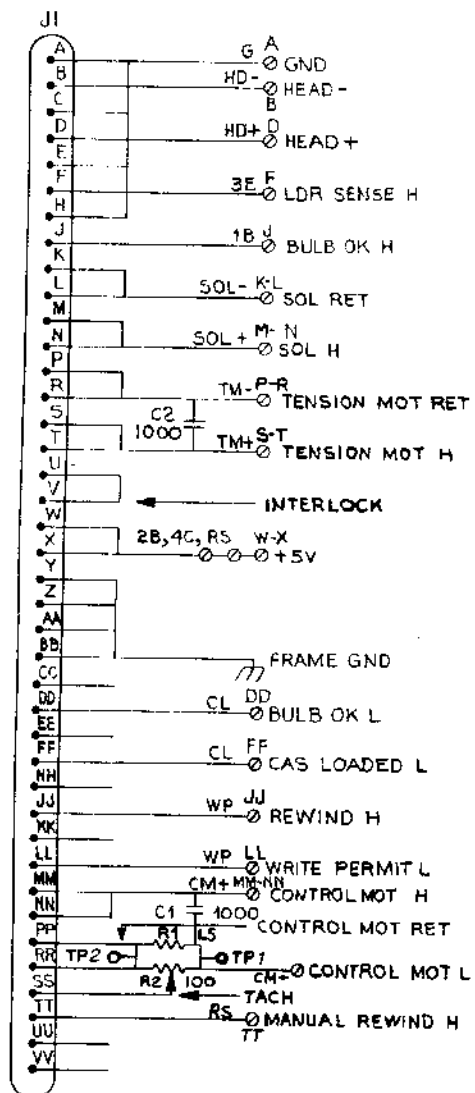
REV. L



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**NOTES:**

- UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES. CAPACITANCE IS IN MICROFARADS.



IC TYPE	GND	+ 5V
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY. EXCEPTIONS ARE STATED ABOVE.		
IC PIN LOCATIONS		

REF	QTY	REF DESIGNATION	DESCRIPTION	PART NO	ITEM NO.
2		TP1, TP2	TURRET LUG #1026-2	9007791	10
2		C1, C2	CAP 1000	DM 1000042	9
1		R1	RES 1.5 LOW WIRE WOUND	131112	8
1		R2	RES 100 34.0% POT 76PR	1309143-04	7
1		J1	CONNECTOR 40 TERMINAL	1210073	6
1			SPLIT LOSS	9006735	5
REF			MODULE ECO HISTORY	8-MH-5410135-0-0	4
REF			X-Y COORDINATE HOLE LOCATION	K-60-5410135-0-4	3
1			ETCHED CIRCUIT BOARD	5010135	2

FIRST USED ON OPTION MODEL: TU50

ETCH BOARD REV: D

REVISIONS:

DRN	DATE	CHK'D	DATE	ENG	DATE	PROJ. ENG.	DATE	PROD.	DATE

digital EQUIPMENT CORPORATION  
MAYNARD, MASSACHUSETTS

TITLE: TERMINATOR CASSETTE DRIVE

SIZE CODE: NUMBER: REV: D

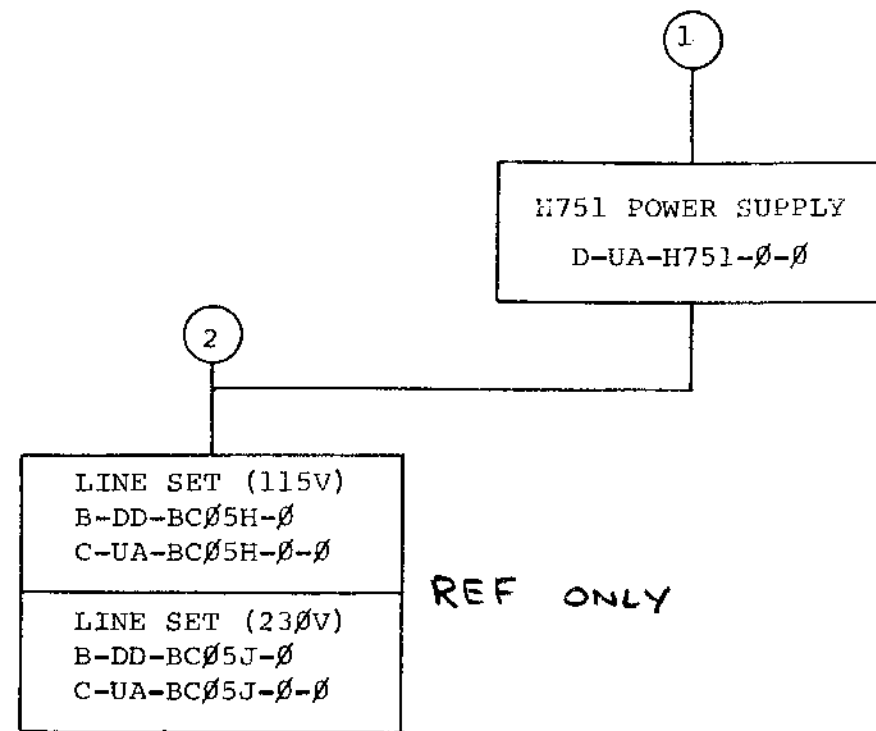
SCALE: SHEET OF: DIST.

SEMICONDUCTOR CONVERSION CHART

BRUNNIG 40-522 16899  
DEC FORM NO 040-1354

5410135-0-1 D





TITLE	SHEET 2 OF 3	SIZE CODE	NUMBER	REV
H751 POWER SUPPLY		B DD	H751-Ø	D



ELECTRICAL					CUSTOMER PRINT SET		MECHANICAL					
DWG NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE	H751-0	MFG SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
H751-0-0	D	2	H751 POWER SUPPLY				1	D-UA-H751-0-0	C	2	H751 POWER SUPPLY	
A-PL-H751-0-0	D	2	H751 POWER SUPPLY (PL)					A-PL-H751-0-0	C	2	H751 POWER SUPPLY (PL)	
E-IA-5310191-0-0		1	CHASSIS, POWER SUPPLY					E-IA-5310191-0-0		1	CHASSIS, POWER SUPPLY	
D-CS-H751-0-1	B	1	CIRCUIT SCHEMATIC H751									
D-CS-5410131-0-1	#	2	CIRCUIT SCHEMATIC									
2 B-DD-BC05H-0	#	3	LINE SET									
C-UA-BC05H-0-0		1	LINE SET BC05H (115V)									
C-UA-BC05J-0-0		1	LINE SET BC05J (230V)									

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: H751 POWER SUPPLY  
SHEET 3 OF 3  
SIZE CODE: B DD  
NUMBER: H751-0  
REV: D



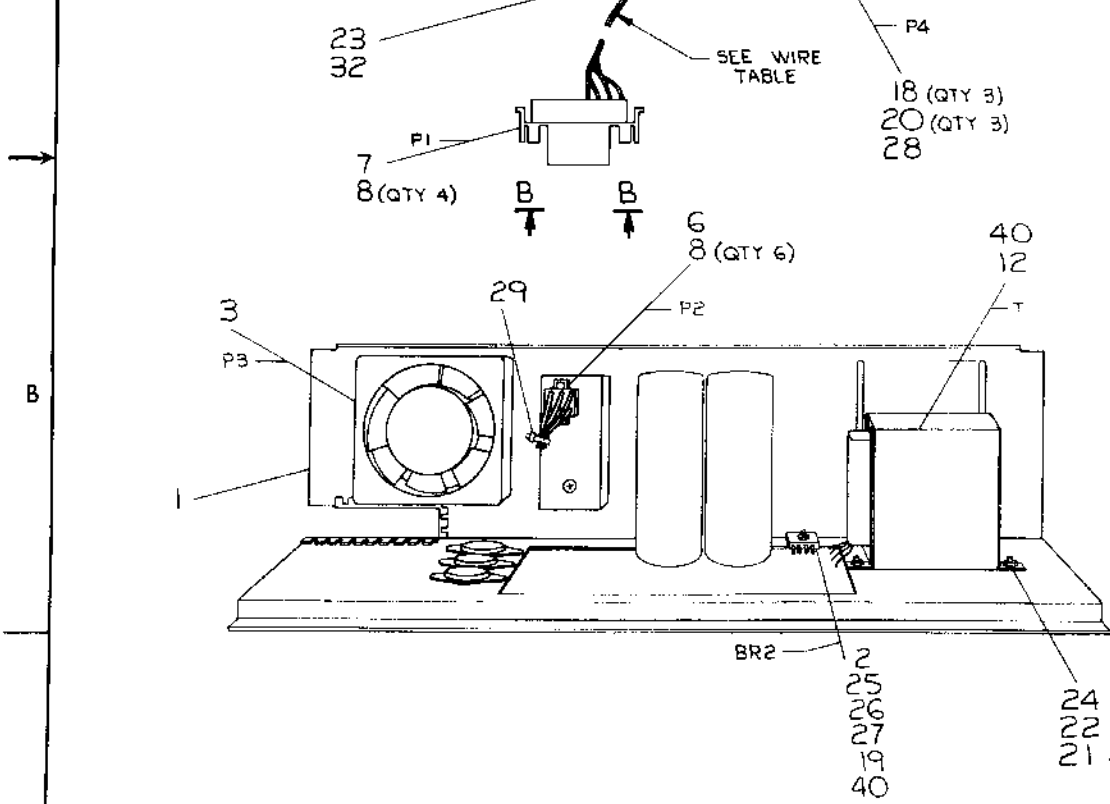
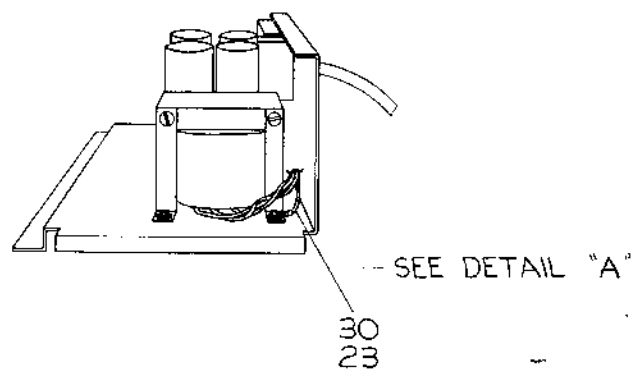
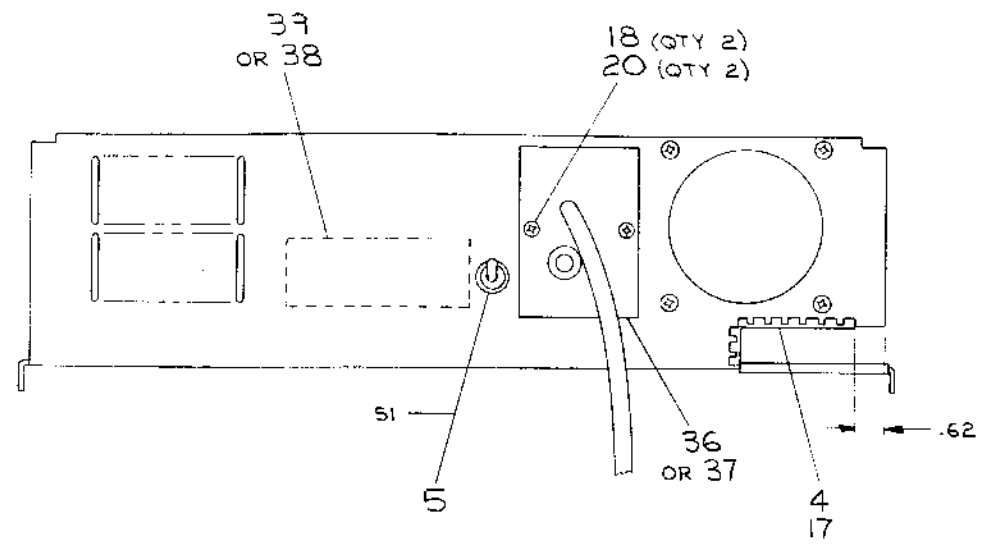
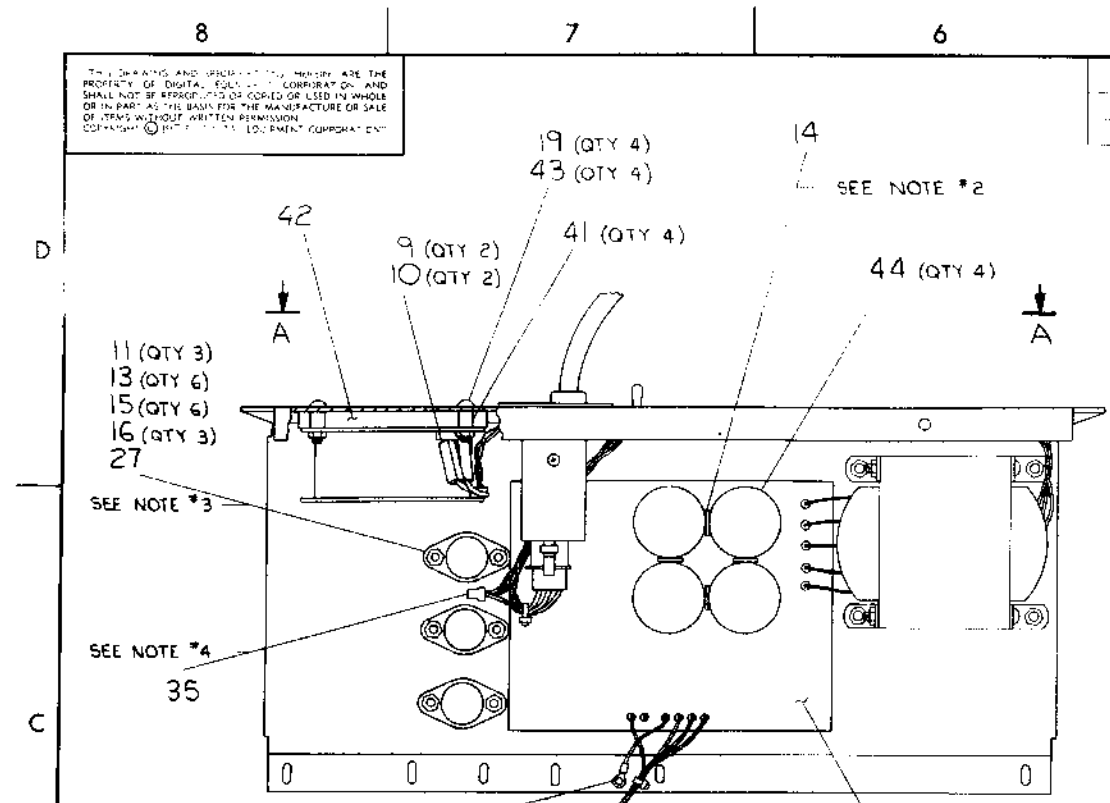
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LEGEND	
H751-A	115 V
H751-B	230 V

0-0-152-H-0 2

NOTES:

1. MOUNT ITEM # 28 (CASSETTE POWER SUPPLY) TO ITEM #1 (CHASSIS) BEFORE MOUNTING ITEMS #2, #11, & #12.
2. USE ITEM #14 (TAPE) BETWEEN EACH OF FOUR LARGE CAPACITORS AS SHOWN.
3. ITEM #27 (COMPOUND) TO BE APPLIED TO BOTH SIDES OF ITEM #16 (WASHER) BEFORE ASSEMBLY.
4. USE CRIMP TOOL #45219 FOR ITEM #35.
5. #'S IN PARENTHESIS INDICATE QUANTITY USED AT THAT LOCATION.



REV	CHANGED BY	DATE
1	M. LEIS	5-10-72
2	M. LEIS	5-10-72
3	M. LEIS	5-10-72
4	M. LEIS	5-10-72
5	M. LEIS	5-10-72

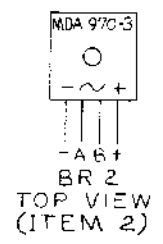
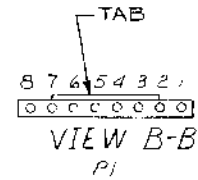
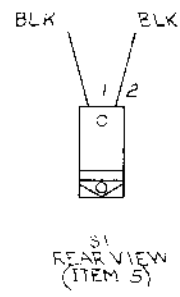
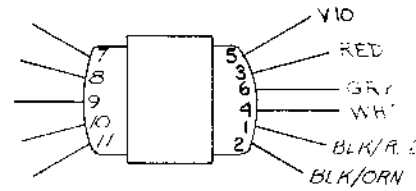
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
TU60				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES				
TOLERANCES				
DECIMALS	ANGLES			
.xxx = .005	±0° 30'			
.xx = .02				
.x = .1				
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY Y				
MATERIAL				
NEXT HIGHER ASSY.				
FINISH				
SHEET 1 OF 2				

DRN	DATE	CHK'D	DATE	ENG.	DATE	PROJ. ENG.	DATE	PROD.	DATE
E. CARBERRY	9-25-72	B. MAJOR	10-25-72	LARRY NAR-H	10-25-72	M. LEIS	10-25-72	B. DIGREGORIO	10-26-72

digital EQUIPMENT CORPORATION		TITLE	
H751		POWER SUPPLY	
SIZE	CODE	NUMBER	REV.
D	UA	H751-0-0	0
SHEET		DIST	
1 OF 2			

DRAWING NUMBER DUAH751-0-0

NO	AWG	COLOR	CONN	TO	WITH	REMARKS	LENGTH (IN)
12	18	BLK	P1-1	P2-1	B		DO NOT CUT
12	18	BLK	P1-2	P2-2	35	SEE NOTE 4	DO NOT CUT
32	18	BLK/RED	T1-1				15
12	18	BLK	P2-4				3
12	18	VIO	T1-1		10		18
12	18	RED	T1-2		10		18
12	18	WHT	T1-4		10		18
30	18	GRY	P2-2		23	SEE DETAIL A	16
12	18	GRY	T1-3		5		18
12	18		T1-6		40		1 1/4
12	18		T1-6		40		1 1/4
12	18		T1-10		40		1 1/4
12	18		T1-11		40		1 1/4
12	18		T1-11		40		1 1/4
31	18	RED	P4-1	P1-1			16
33	18	GRN	P4-1	P1-1			16
34	18		P4-2	P1-2			16
32	18	BLK	P4-2	P1-2			16
12	18	BLK/ORN	T1-2	P2-6	8		18
2			BR2-(+)	P4-(+)	SOLDER		1
2			BR2-(-)	P4-(-)	SOLDER		1
2			BR2-A	P4-A	SOLDER		1
2			BR2-B	P4-B	SOLDER		1

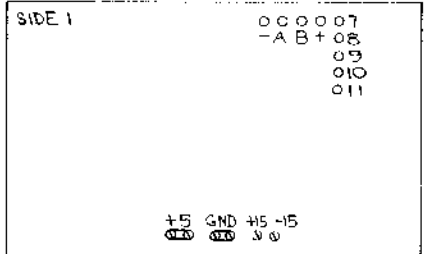
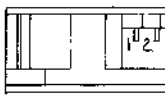
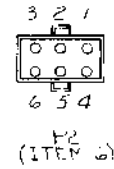
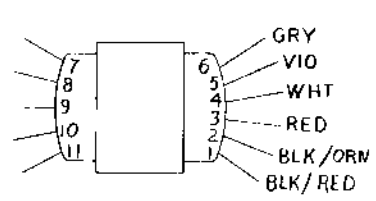


T1 TOP VIEW (ITEM 12)

S1 REAR VIEW (ITEM 5)

VIEW B-B

TOP VIEW (ITEM 2)



T1 (ALTERNATE VENDOR)

P2 (ITEM 6)

P3 (ITEM 3) TOP VIEW

P4 (ITEM 28)

REVISIONS  
 1  
 2  
 3  
 4  
 5  
 6  
 7  
 8

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
TU60				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		DATE	digital EQUIPMENT CORPORATION	
DECIMALS	ANGLES	DATE	MAYNARD, MASSACHUSETTS	
XXX - 006	+0° 30'	DATE	TITLE	
XX - 02		DATE	H751	
X - 1		DATE	POWER SUPPLY	
REMOVE BURRS AND BREAK SHARP CORNERS. SURFACE QUALITY		DATE	REV	
MATERIAL	NEXT HIGHER ASSY.	DATE	SIZE CODE	NUMBER
FINISH	SCALE	DATE	DUAH751-2-2	0
	SHEET	DATE	DIST	

DUAH751-0-0

**DIGITAL EQUIPMENT CORPORATION**  
MAYNARD, MASSACHUSETTS  
**PARTS LIST**

MADE BY F. CARBERRY  
DATE 9/19/72  
ENG *Larry Nalley*  
DATE 10/26/72

CHECKED W. MAJOR  
DATE 10/6/72  
PROD *Bob DeB...*  
DATE 10/26/72

SECTION 1  
ISSUED SECT. 1

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	SECTION
1	E-1A-5310191-0-0	CHASSIS, POWER SUPPLY	
2	1110208	DIODE ARRAY MDA970-3 (BR2)	
3	1210719	FAN, BOXER 115V, 25-35 CUFT	
4	9007036	GROMMET, CATERPILLAR	
5	1203376	SWITCH, TOGGLE SPST	
6	1209351-06	CONNECTOR, MATE-N-LOCK 6 PIN	
7	1209340-01	CONNECTOR, MATE-N-LOCK 8 PIN	
8	1209378-01	PIN, MATE-N-LOCK	
9	1210820-01	MINI-FASTAB, HOUSING #1-480417-0	
10	1210820-02	MINI-FASTAB, PIN #60291-1	
11	1505819	TRANSISTOR, 2N3055 (Q2, Q3, Q4)	
12	1611096	TRANSFORMER, MMC 4565-1/T72105 (T1)	
13	9006012-1	SCR, #4-40 x 7/16, PHL PAN HD	
14	9007834	TAPE, DOUBLE SIDED, 1/2 INCH	
15	9006557	KEP NUT #4	
16	9006721	WASHER, INSULATING	
17		LOCTITE, IS-150	
18	9006633	LOCK WASHER #6, INT TOOTH	
19	9008185	KEP NUT #6	
20	9006020-1	SCR, 6-32 x 1/2, PHL PAN HD	
21	9006039-1	SCR, 8-32 x 1/2, PHL PAN HD	
22	9006666	WASHER, FLAT, #8	

TITLE H751 POWER SUPPLY

ASSY NO. D-UA-H751-0-0

SIZE CODE A PL

SHEET 1 OF 2

NUMBER H751-0-0

REV. ECO NO. D H751-00004

QUANTITY / VARIATION		REV. ECO NO.
H751-A		
H751-B		
1	1	
1	1	
1	1	
A/R	A/R	
1	1	
1	1	
1	1	
10	10	
2	2	
2	2	
3	3	
1	1	
6	6	
A/R	A/R	
6	6	
3	3	
A/R	A/R	
5	5	
5	5	
5	5	
4	4	
4	4	

**DIGITAL EQUIPMENT CORPORATION**  
MAYNARD, MASSACHUSETTS  
**PARTS LIST**

MADE BY F. CARBERRY  
DATE 9/19/72  
ENG *Larry Nalley*  
DATE 10/26/72

CHECKED W. MAJOR  
DATE 10/6/72  
PROD *Bob DeB...*  
DATE 10/26/72

SECTION 1  
ISSUED SECT. 1

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	SECTION
23	9006776	CONN, SOLDERLESS, AMP #31889	
24	9006563	KEP NUT, #8	
25	9007793-1	SCR, #6-32 x 9/16, PHL PAN HD	
26	9006656	WASHER, FLAT, #6	
27	9008268	COMPOUND, THERMAL JOINT	
28	D-CS-5410131-0-1	CASSETTE POWER SUPPLY	
29	9007031	CABLE TIE, PANDUIT, SST 1 M	
30	9107360-55	WIRE, #18 AWG STRD, IPVC, GRN	
31	9107360-22	WIRE, #18 AWG, STRD, IPVC, RED	
32	9107360-00	WIRE, #18 AWG, STRD, IPVC, BLK	
33	9107360-33	WIRE, #18 AWG, STRD, IPVC, ORN	
34	9107360-66	WIRE, #18 AWG, STRD, IPVC, BLU	
35	9009541	SPLICE, CLOSED END AMP #36965	
36	C-UA-BC05H-0-0	LINE CORD SET, 115VAC	
37	C-UA-BC05J-0-0	LINE CORD SET, 230VAC	
38	A-DC-5310297-0-0	H751-A DECAL (115V)	
39	A-DC-5310298-0-0	H751-B DECAL (230V)	
40	9107278-00	TUBING, BLACK, TFE #18 AWG	
41	9007615	1/4 X 1/4 X 6 ROUND FIBER SPACER	
42	A-PS-1211343-0-0	FILTER	
43	9006025-1	SCR, 6-32 X 5/8 PHL. PAN HD.	
44	1011023	CAP, 14000 UF, 20V, (C7, C8, C9, C10)	

TITLE H751 POWER SUPPLY

ASSY NO. D-UA-H751-0-0

SIZE CODE A PL

SHEET 2 OF 2

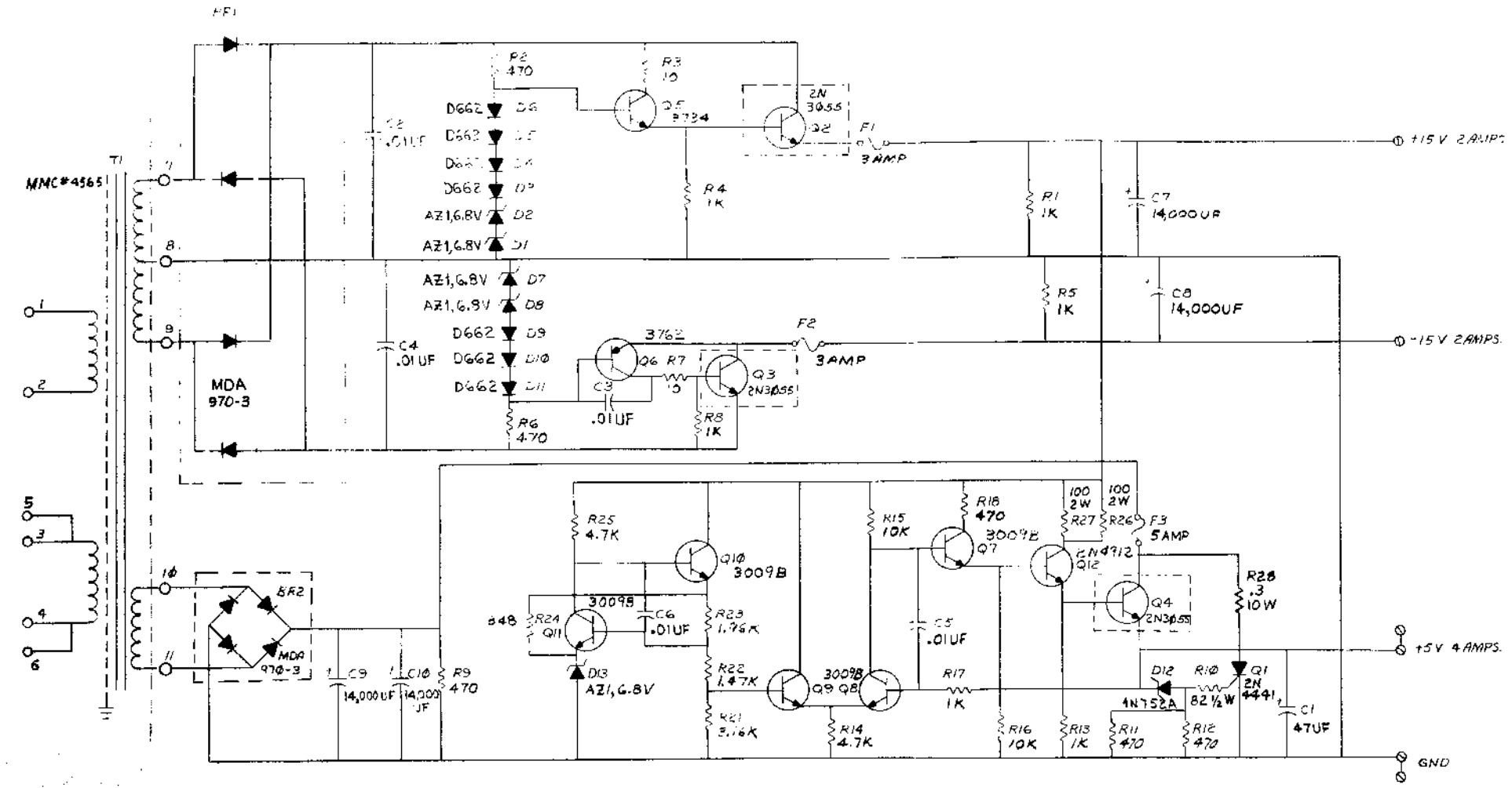
NUMBER H751-0-0

REV. ECO NO. D H751-00004

QUANTITY / VARIATION		REV. ECO NO.
H751-A		
H751-B		
2	2	
4	4	
1	1	
1	1	
A/R	A/R	
1	1	
A/R	A/R	
A/R	A/R	
A/R	A/R	
A/R	A/R	
A/R	A/R	
1	1	
1	1	
1	1	
A/R	A/R	
4	4	
1	1	
4	4	
4	4	



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O INDICATES HOLES FOR DIODE BRIDGE  
Q2, Q3, Q4, BR2 & T1 ARE MOUNTED ON  
CHASSIS HEAT SINK.

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
ETCH BOARD REV C				
DRN	<i>[Signature]</i>	DATE	7-23-72	
CHK'D	<i>[Signature]</i>	DATE	7-26-72	
ENG	<i>[Signature]</i>	DATE	7/27/72	
PRG. ENG.	<i>[Signature]</i>	DATE	8/2/72	
PROD.	<i>[Signature]</i>	DATE	7/27/72	
NEXT HIGHER ASSY				
DEC NO.	EIA NO.	DEC NO.	EIA NO.	
SEMICONDUCTOR CONVERSION CHART				
SCALE				SIZE (CODE)
SHEET	2 OF 2			D
TITLE				REV.
CASSETTE POWER SUPPLY				E
NUMBER				
5410131-0-1				
DIST.				

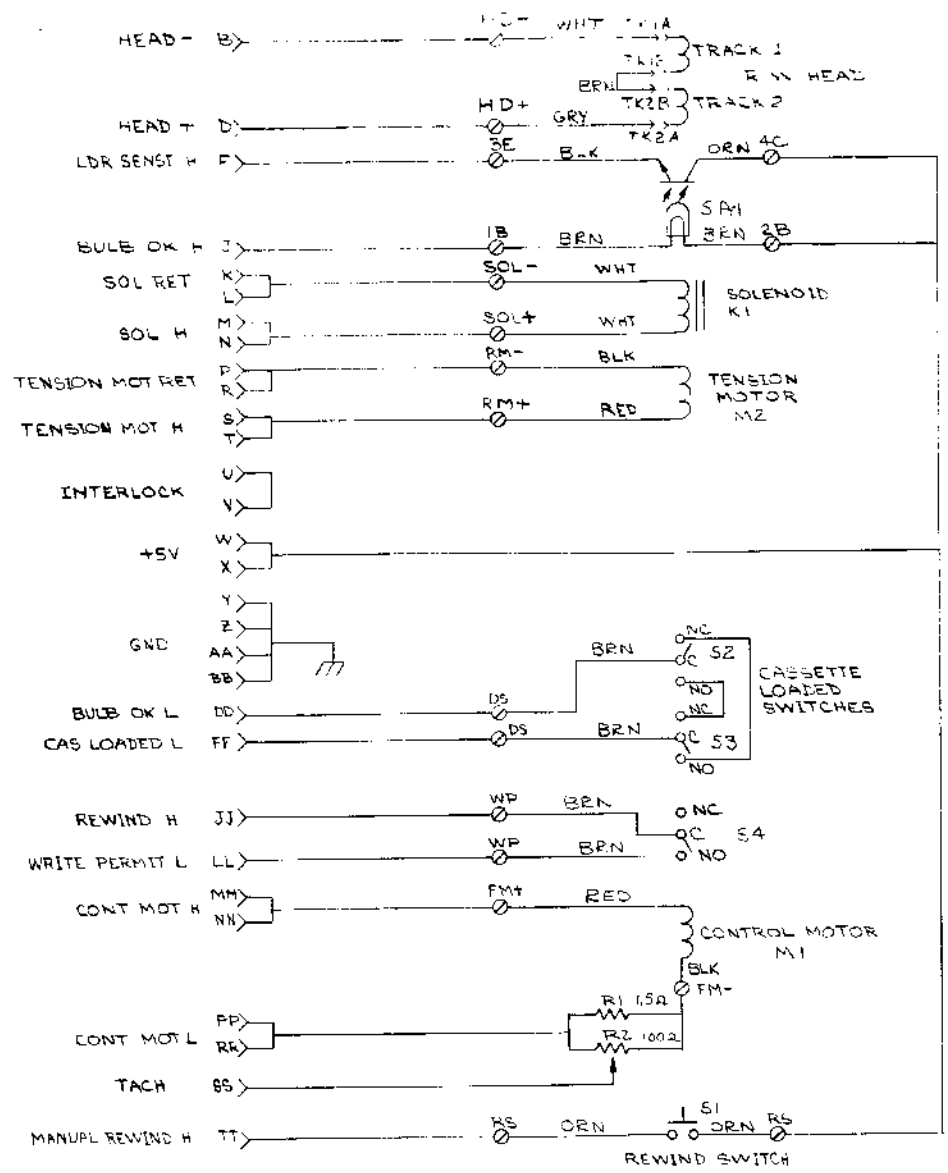
REV E  
5410131-0-1



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00FYR-G-01 972105 TAL EQUIP CORR

NOTES:  
 1. SWITCHES ARE SHOWN WITH "CAS LOADED" AND "WRITE PERMIT" ACTIVATED.  
 2. CONNECT WIRE (ITEMS #44 & #45) TO HEAD (ITEM #20) USING CONNECTOR PINS SUPPLIED WITH HEAD (ITEM #20). SEE DETAIL "A".



FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO.	ITEM NO.
TU60				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	ORN	DATE 10/13/72	 digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
DECIMALS	CHK'D	DATE 12/10/72		
ANGLES	ENG	DATE 11/17/72		
XXX + .005 XX + .02 X + .1	PROJ ENG	DATE 11/17/72		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PRGD	DATE 11/17/72	TITLE CASSETTE DRIVE WIRING DIAGRAM	
MATERIAL	NEXT HIGHER ASSY	SIZE CODE	NUMBER	REV
FINISH	B-LL-TU60-0	DWD	TU60-0-WD	
SCALE	SHEET 1 OF 1	DIST		

BURNING 40-322 10840  
 REVISIONS  
 CHANGE NO  
 REV

SIZE LOCAL  
 DWD TU60-0-WD

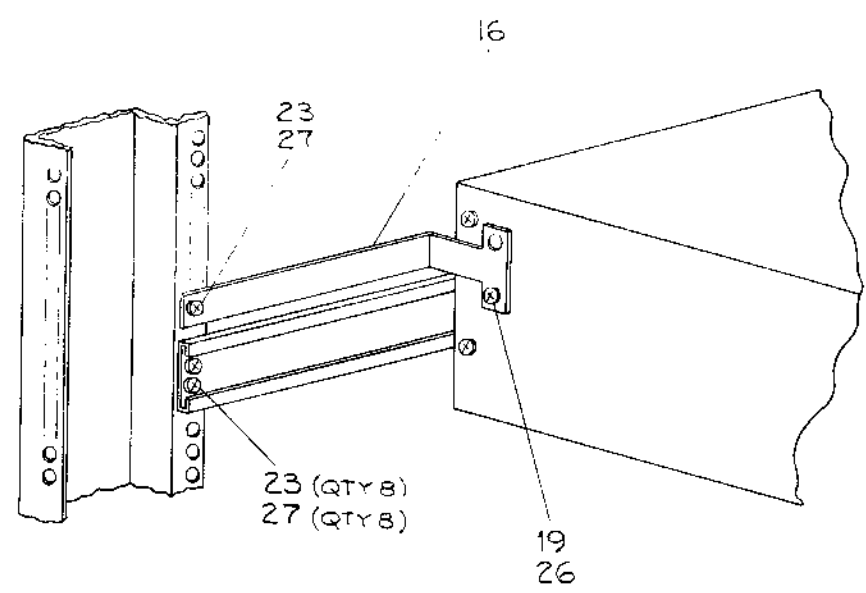
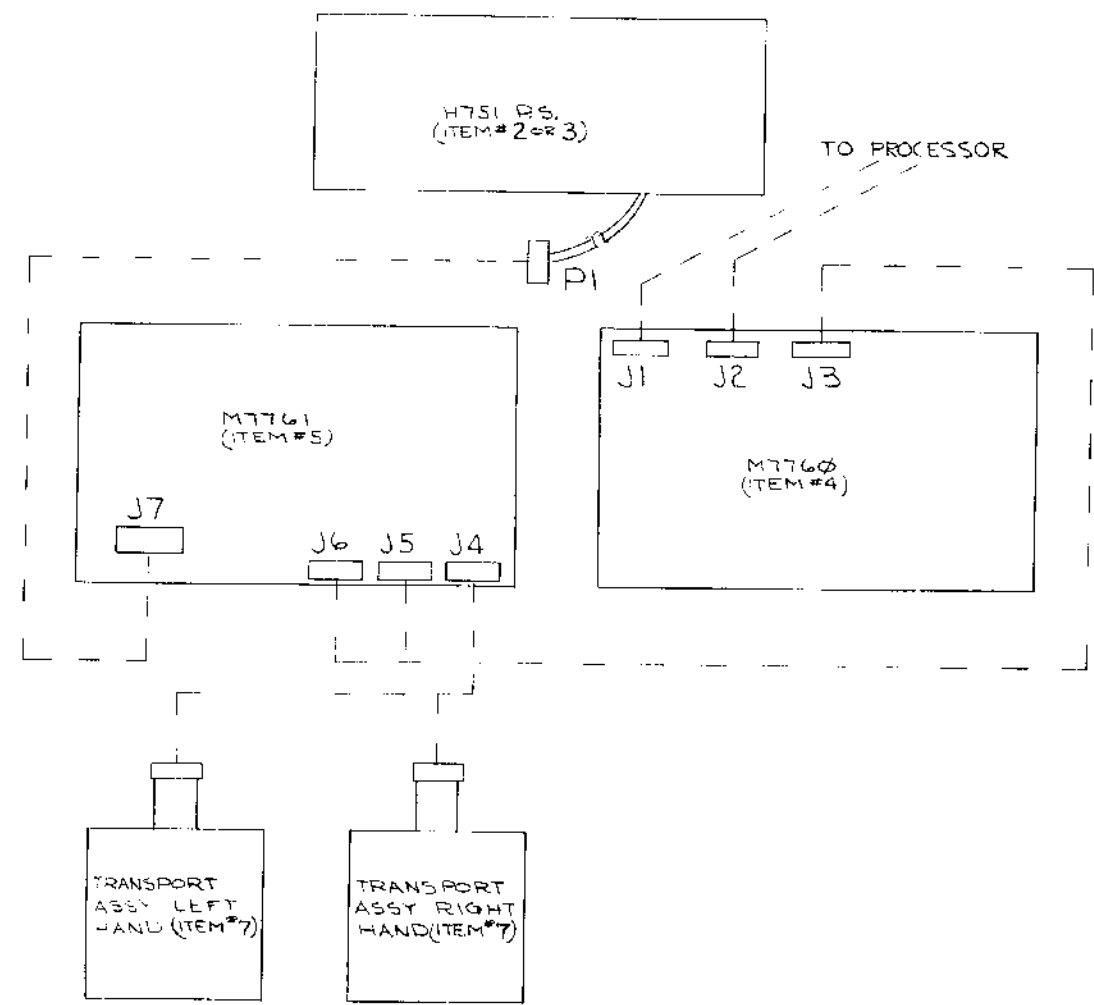


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ASSY CONNECTIONS			
FROM		TO	
ITEM NO	DESCRIPTION	ITEM NO	DESCRIPTION
2023	H751 P.S.-PI	5	M7761-3
7	TRANSPORT ASSY LEFT	5	M7761-3
7	TRANSPORT ASSY RIGHT	5	M7761-3

CABLE CONNECTIONS		
ITEM NO	FROM	TO
1	M7761-36	M7760-3



LOCATION OF SHIPPING BRACKET (ITEM #16) WHEN UNIT IS SUPPLIED IN CABINET

REV	CHG	NO

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES.	DRN	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
TOLERANCES	CHK'D	DATE	TITLE	
DECIMALS	ENG	DATE	TU60 UNIT ASSY	
ANGLES	PROJ ENG	DATE		
.XXX ± .005	PROD.	DATE		
.XX ± .02				
X = 1				
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL	NEXT HIGHER ASSY.		SIZE CODE	NUMBER
FINISH	SCALE		DUA TU60-C-C	REV.
	SHEET 2 OF 2		DIST.	

8 7 6 5 4 3 2 1

D

C

B

A

BRUNING 40 07 15968

REVISIONS

CHG NO

REV

SIZE CODE NUMBER

DUA TU60-C-C

REV B

REV A

**DIGITAL EQUIPMENT CORPORATION**  
MAYNARD, MASSACHUSETTS

**PARTS LIST**

MADE BY G. Flanders  
 DATE 12/20/73  
 ENG M. Leis  
 DATE 1/12/73

CHECKED W. Major  
 DATE 1/3/73  
 PROD M. Leis  
 DATE 1/12/73

SECTION  
 ISSUED SECT.

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION
1	D-UA-BC05L-0-0	CABLE, JUMPER	1 1
2	D-UA-H751-A	H751 POWER SUPPLY (115V)	1
3	D-UA-H751-B	H751 POWER SUPPLY (230V)	1
4	D-CS-M7760-0-1	TU60 LOGIC	1 1
5	D-CS-M7761-0-1	READ/WRITE AND SERVO	1 1
6	D-PS-1209154-0-0	CHASSIS-TRAK (PAIR)	1 1
7	D-AD-7009014-0-0	TRANSPORT ASSY (TU60)	2 2
8	C-MD-7409479-0-0	PLATE, PRESSURE	1 1
9	C-MD-7409904-0-0	BRACKET, SYMMETRICAL	2 2
10	B-MD-7409933-0-0	BUSHING, PIVOT	2 2
11	E-MD-7409941-0-0	COVER, CHASSIS	1 1
12	E-IA-7409943-0-0	CHASSIS (TU60)	1 1
13	D-IA-7400990-0-0	PLATE, CHASSIS, FRONT (TU60)	1 1
14	D-IA-7410556-0-0	BEZEL ASSY	1 1
15	D-IA-7410604-0-0	CARD FRAME ASSY	1 1
16	C-MD-7410690-0-0	BRACKET, SHIPPING	1 1
17	9006020-1	SCR, PHL PAN HD#6-32 1/4 LG	16 16
18	9006020-3	SCR, PHL TRUSS HD#6-32 x 1/4 LG	14 14
19	9006021-3	SCR, PHL TRUSS HD #6-32 x 5/16 LG	7 7
20	9006035-3	SCR, PHL TRUSS HD #8-32 x 1/4 LG	11 11
21	9006037-3	SCR, PHL TRUSS HD #8-32 x 3/8 LG	7 7
22	9006040-3	SCR, PHL TRUSS HD #8-32 5/8 LG	2 2

TITLE TU60 UNIT ASSY

ASSY NO. D-UA-TU60-0-0

SIZE CODE A PL

NUMBER TU60-0-0

REV. E

ECO NO. TU60 00012

SHEET 1 OF 2

**DIGITAL EQUIPMENT CORPORATION**  
MAYNARD, MASSACHUSETTS

**PARTS LIST**

MADE BY G. Flanders  
 DATE 12/20/73  
 ENG M. Leis  
 DATE 1/12/73

CHECKED W. Major  
 DATE 1/3/73  
 PROD M. Leis  
 DATE 1/12/73

SECTION  
 ISSUED SECT.

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION
23	9006071-3	SCR, PHL TRUSS HD #10-32 x 3/8 LG	9 9
24	9006337-8	SCR, SOCKET HD #8-32 x 3/8 LG	6 6
25	9007080	CABLE CLAMP 3/16	1 1
26	9007649	LOCKWASHER #6 EXT TOOTH	15 15
27	9007786	NUT, #10-32 TINNED	9 9
28	9008072	LOCKWASHER # 8 EXT TOOTH	26 26
29		LOCTITE 242	A/HA/R
30		TORQUE SEAL	A/R

TITLE TU60 UNIT ASSY

ASSY NO. D-UA-TU60-0-0

SIZE CODE A PL

NUMBER TU60-0-0

REV. B

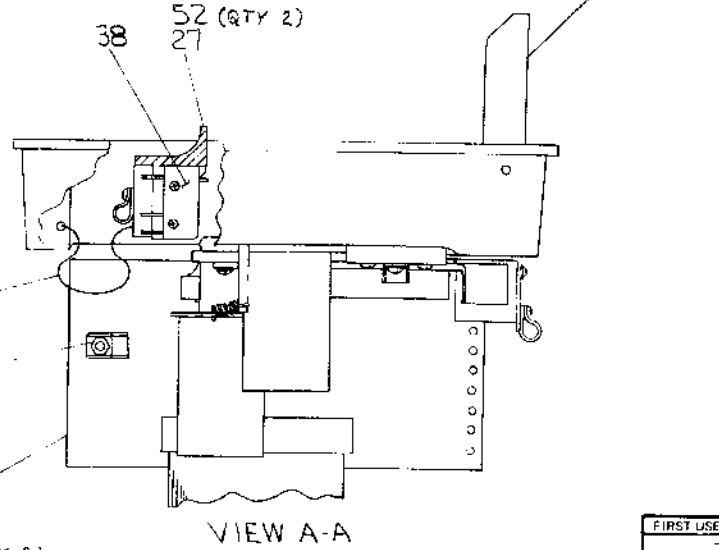
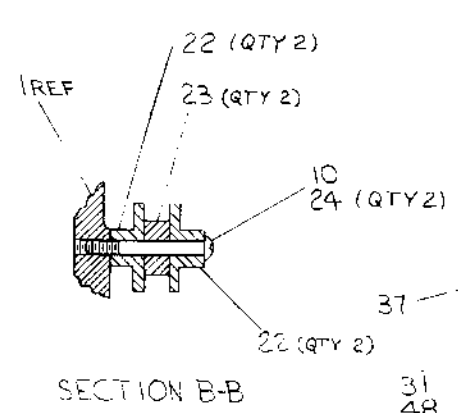
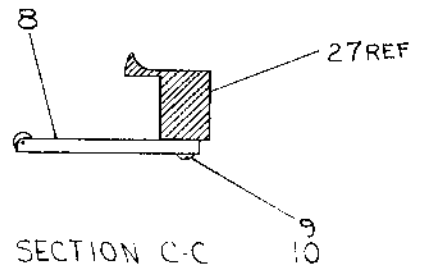
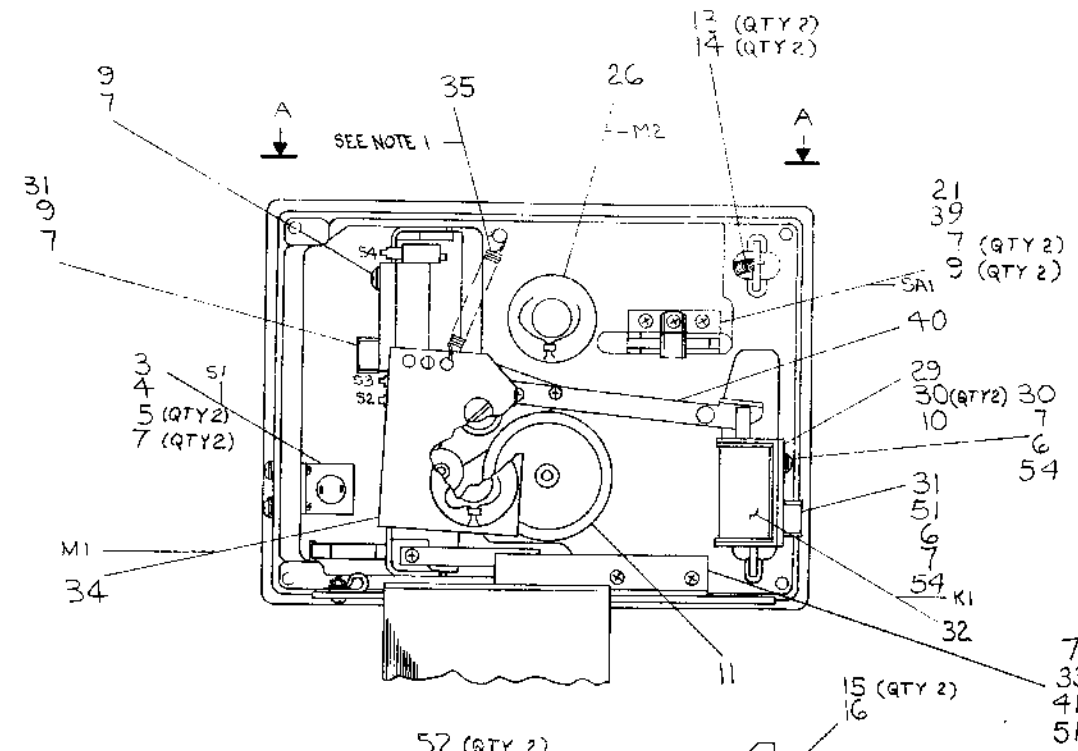
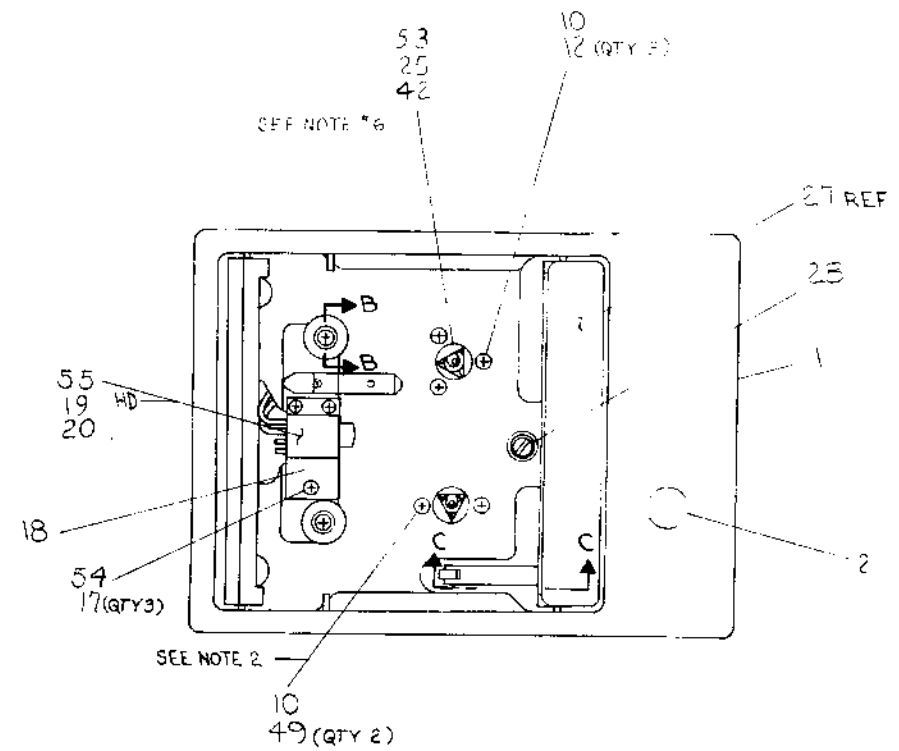
ECO NO. TU60 00012

SHEET 2 OF 2

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DIGITAL EQUIPMENT CORPORATION

- NOTES:
1. SET SPRING TENSION 45/55 GRAMS AT POSITION OF ROCKER ASSY LEVER AT POSITION WHERE SOLENOID STRIKES LEVER. TRANSPORT MUST BE IN OPERATING POSITION.
  2. TIGHTEN SCR (ITEM #49) TO 6 INCH-POUNDS OF TORQUE.
  3. TRIM LEADS OF ITEM #50 (CAP) TO 3/8" LONG BEFORE SOLDERING TO ITEM #31.
  4. SEE DETAILS B, C, D TO LOCATE ITEM #47 (CABLE TIES).
  5. CABLE WILL BE LACED SO AS NOT TO INHIBIT FREE MOTION OF LOCK-BAR #27.
  6. ITEM #53 TO BE USED BETWEEN MOTOR SHAFT AND I.D. OF COUPLING. APPLY LOCTITE TO I.D. OF COUPLING AND SLIP ON MOTOR SHAFT. BE SURE LOCTITE DOES NOT RUN DOWN MOTOR SHAFT TO MOTOR BEARING.



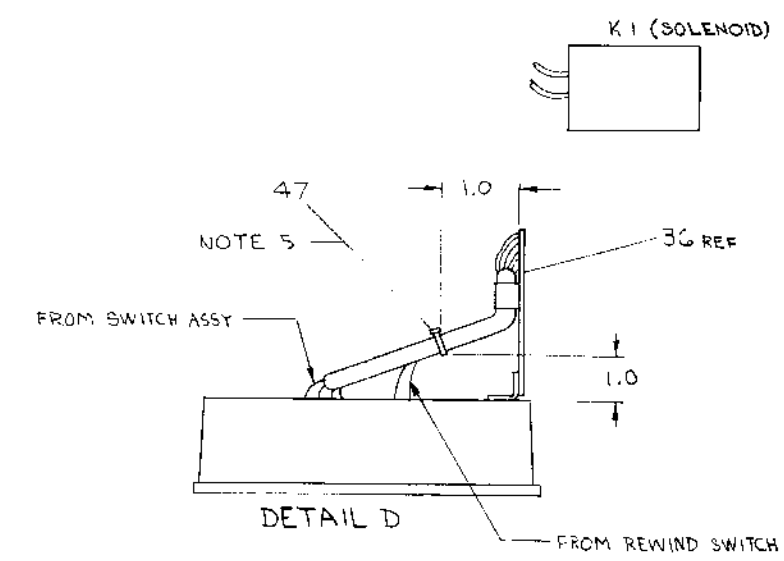
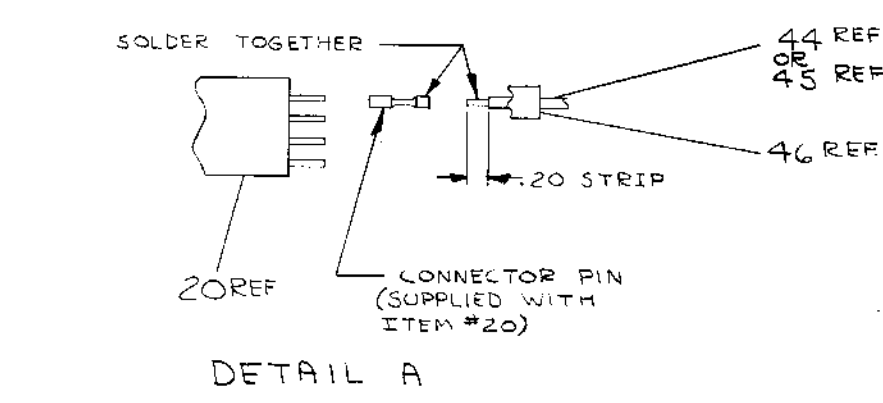
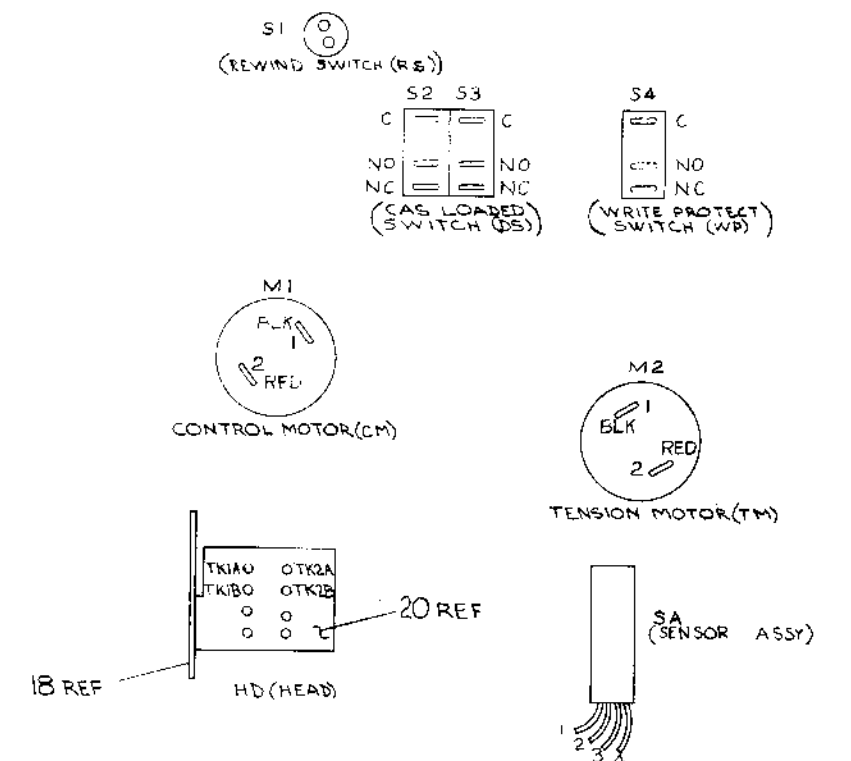
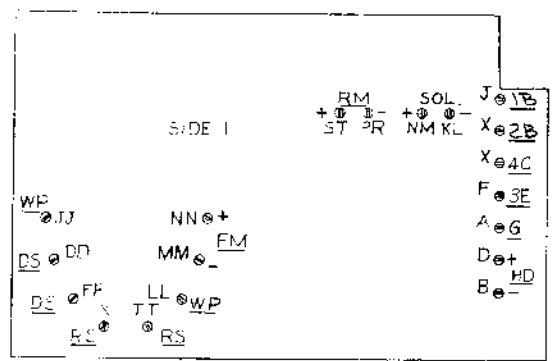
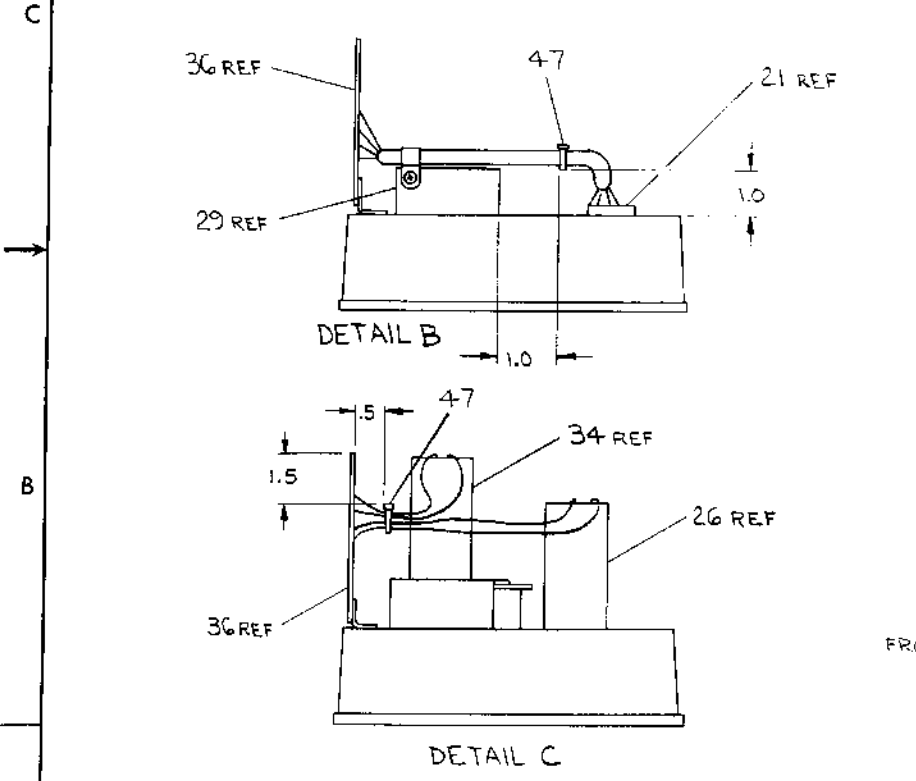
REV	REV	REV	REV	REV	REV	REV	REV	REV	REV
1	2	3	4	5	6	7	8	9	10
DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE
BY	BY	BY	BY	BY	BY	BY	BY	BY	BY
DESIGNED BY	DESIGNED BY	DESIGNED BY	DESIGNED BY	DESIGNED BY	DESIGNED BY	DESIGNED BY	DESIGNED BY	DESIGNED BY	DESIGNED BY
7009014-00001	7009014-00001	7009014-00001	7009014-00001	7009014-00001	7009014-00001	7009014-00001	7009014-00001	7009014-00001	7009014-00001
V. DEMPSEY	V. DEMPSEY	V. DEMPSEY	V. DEMPSEY	V. DEMPSEY	V. DEMPSEY	V. DEMPSEY	V. DEMPSEY	V. DEMPSEY	V. DEMPSEY
TUSO-00012	TUSO-00012	TUSO-00012	TUSO-00012	TUSO-00012	TUSO-00012	TUSO-00012	TUSO-00012	TUSO-00012	TUSO-00012
M. LEIS	M. LEIS	M. LEIS	M. LEIS	M. LEIS	M. LEIS	M. LEIS	M. LEIS	M. LEIS	M. LEIS

FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO.	ITEM NO.
TU60				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN	DATE	digital EQUIPMENT CORPORATION	
DECIMALS ANGLES	CHK'D	DATE	TITLE	
XXX + .005	ENG	DATE	TRANSPORT	
XX - .02	PROJ ENG	DATE	ASSY (TU60)	
X - .1	PROD.	DATE	SIZE CODE	NUMBER
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY			D 41	7009014-0-0
MATERIAL	NEXT HIGHER ASSY		REV.	
	U-A TU60-2-0			C
FINISH	SCALE	NONE	SHEET	OF 1
			DIST	

REV C  
PART NUMBER  
D 41 7009014-0-0

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WIRE TABLE							
ITEM NO.	DESCRIPTION	FROM	TO	REMARKS	LENGTH		
		CONN	WITH	CONN	WITH		
43	ORN	26	S1	SOLDER	PC-X	SOLDER EITHER SI TERM	3.5
43	ORN	26	S1	SOLDER	PC-TT	REMAINING SI TERM	3.5
45	WHT	26	S2-C	SOLDER	PC-DD		
	GRY	26	S2-C	SOLDER	PC-DD		
			S3-C	SOLDER	PC-D	SEE DETAIL A	4.5
			S3-C	SOLDER	PC-B		4.5
			S3-C	SOLDER	PC-FF		
			S4-C	SOLDER	PC-LL		
			S4-NO	SOLDER	PC-JJ		
	BLK		M1-1	SOLDER	PC-MM		3.0
	RED		M1-2	SOLDER	PC-NN		3.0
	BLK		M2-1	SOLDER	PC-PR		5.0
	RED		M2-2	SOLDER	PC-ST		5.0
	WHT		K1	SOLDER	PC-MN	EITHER K1 LEAD	1.25
	WHT		K1	SOLDER	PC-KL	REMAINING K1 LEAD	1.25
	BRN		SA-1	SOLDER	PC-J	EITHER BRN LEAD	
	BRN		SA-2	SOLDER	PC-X	REMAINING BRN LEAD	
	BLK		SA-3	SOLDER	PC-F		
	ORN		SA-4	SOLDER	PC-X		
44	BRN	26	HD-TK1B	SOLDER	HD-TK2B	SOLDER SEE DETAIL A	.75



REV	DESCRIPTION
1	INITIAL
2	CHANGE NO
3	CHANGE NO
4	CHANGE NO

FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO.	ITEM NO.
TU60				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES	DRM	DATE	digital EQUIPMENT CORPORATION	
DECIMALS	CHK'D	DATE	MAYNARD MASSACHUSETTS	
ANGLES	ENG	DATE	TITLE	
XXX - 005	PROJ. ENG.	DATE	TRANSPORT ASSY (TU60)	
XX - 07	PROD.	DATE		
X - 1		DATE		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL	NEXT HIGHER ASSY.	SIZE CODE	NUMBER	REV.
	D 37-TU-V-V	D	7009014-C-C	C
FINISH	SCALE	SHEET	DIST	
	2 OF 2			

**DIGITAL EQUIPMENT CORPORATION**  
MAYNARD, MASSACHUSETTS

**PARTS LIST**

MADE BY W. MAJOR  
DATE 11/27/72  
ENG WY BENSON  
DATE 1-16-73  
CHECKED W. MAJOR  
DATE 1/16/73  
PROD *[Signature]*  
DATE 1/18/73  
SECTION 1  
ISSUED SECT. 1

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY	VARIATION
1	D-IA-7410640-0-0	BASE ASSY	1	
2	B-MD-7410518-0-0	BUTTON, REWIND SWITCH	1	
3	1211040	SWITCH, PUSHBUTTON SPST	1	
4	B-MD-7410519-0-0	BRACKET, REWIND SWITCH	1	
5	9006011-1	SCR, PHL HD PAN #4-40 X 3/8	2	
6	9008172	WASHER, FLAT #4 S.S.	2	
7	9006632	WASHER, INT TOOTH #4	1/2	
8	C-IA-7409930-0-0	EJECTOR ASSY	1	
9	9006013-1	SCR, PHL HD PAN #4-40 X 1/2	5	
10		LOCTITE 242	A/R	
11	D-AD-7009146-0-0	SPINDLE ASSEMBLY	1	
12	9009275-2	SCR, PHL HD PAN #4-40 X 3/8	3	
13	9009308	SPRING	2	
14	9006527	ROLL PIN 3/32 X 11/16 LG	2	
15	9006531	ROLL PIN 1/8 X 3/8 LG	2	
16	C-IA-7409924-0-0	COVER, LOWER CASSETTE ASSY	1	
17	9006001-1	SCR, PHL HD PAN #2-56 X 1/4	3	
18	C-MD-7409908-0-0	PLATE, HEAD MOUNT	1	
19	9009276	SCR, PHL HD PAN #2-56 X 1/8	1	
20	1211174	HEAD	1	
21	D-PS-1211289-0-0	SENSOR ASSEMBLY	1	
22	C-MD-7409912-0-0	GUIDE, TAPE	4	
<b>TITLE</b>				
TRANSPORT ASSY (TU60)			SIZE CODE <b>A PL</b>	NUMBER 7009014-0-0
			DIST. 1	REV. <b>C</b>
			OF 3	ECO NO. TU60-00012

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY	VARIATION
23	C-MD-7409911-0-0	SPACER, TAPE GUL.	2	
24	9006015-1	SCR, PHL HD PAN #4-40 X 3/4	2	
25	D-PS-1211279-0-0	COUPLING, CASSETTE DRIVE	1	
26	1211111	MOTOR, CASSETTE	1	
27	D-MD-7409917-0-0	LOCK-BAR, CASSETTE	1	
28	9009277-1	SCR, SLOTTED HD PAN #8-32 X 1/4	1	
29	C-MD-7409928-0-0	BRACKET, SOLENOID	1	
30	9008301-1	SCR, PHL HD PAN #4-40 X 1/4	5	
31	9007079	CLAMP, CABLE 5/16	3	
32	1211189	SOLENOID	1	
33	B-MD-7409929-0-0	BRACKET, TERMINAL BOARD	1	
34	C-AD-7009140-0-0	MOTOR MOUNT ASSY	1	
35	9009279	SPRING	1	
36	D-IA-7009041-0-0	TERMINATOR CABLE ASSY	1	
37	C-MD-7410537-0-0	SPRING, LOCK BAR	1	
38	C-AD-7009141-0-0	SWITCH ASSY	1	
39	B-MD-7410544-0-0	SPACER, E.O.T. BLOCK	1	
40	C-AD-7009148-0-0	LEVER ASSY	1	
41	9006791	SPACER, AL HEX #4 1/8 LG	2	
42	9009274	SCREW, SET #2-56 X 1/8 LG	1	
43	9107636-33	WIRE, #26 AWG IPVC STRD ORN	A/R	
44	9107636-11	WIRE, #26 AWG IFVC STRD BRN	A/R	
<b>TITLE</b>				
TRANSPORT ASSY (TU60)			SIZE CODE <b>A PL</b>	NUMBER 7009014-0-0
			DIST. 3	REV. <b>C</b>
			OF 3	ECO NO.





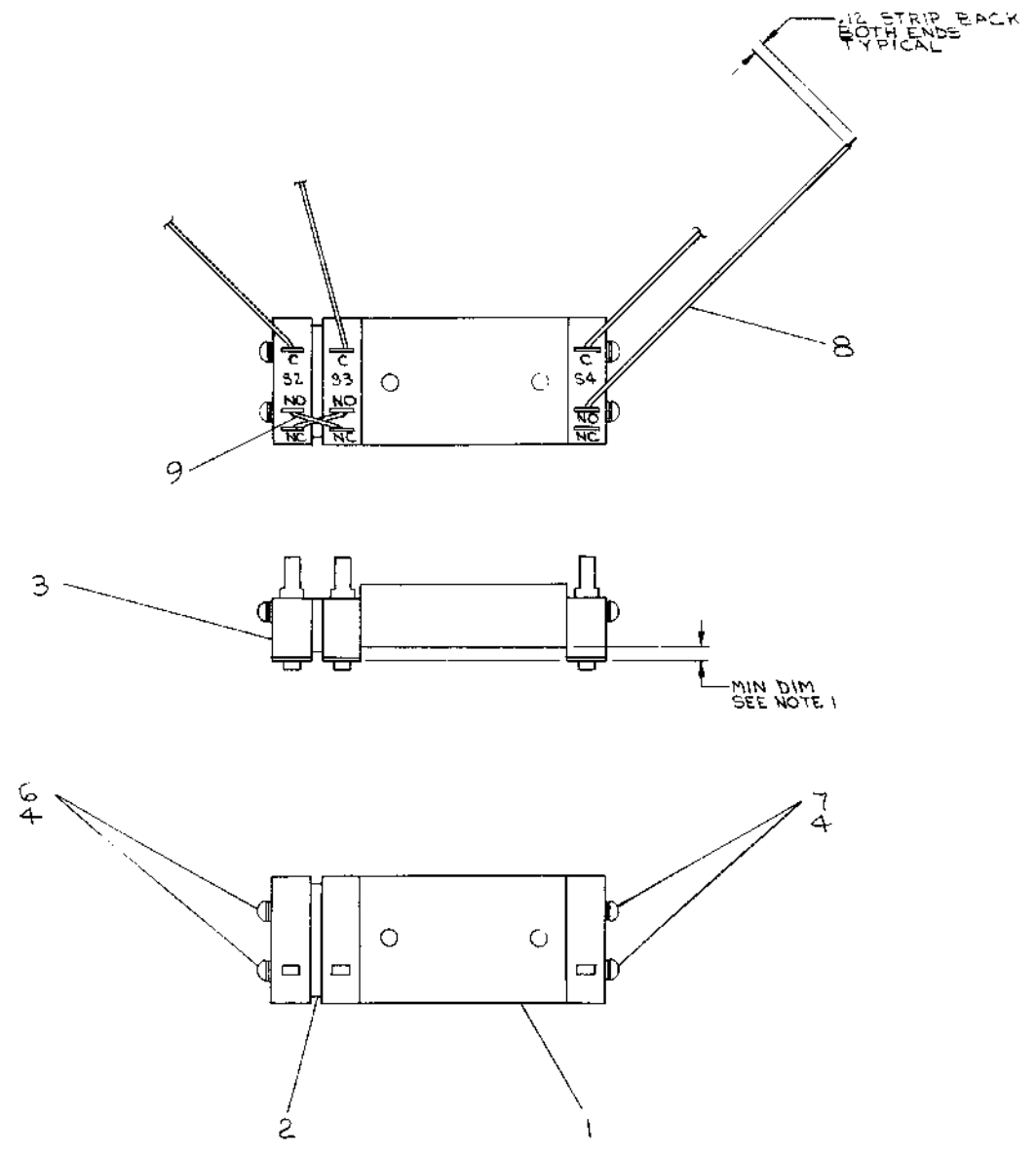


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WIRE TABLE

ITEM NO.	DESCRIPTION	COLOR	AWG	FROM		TO		LENGTH
				CONN	WITH	CONN	WITH	
8	BRN	26	S2-C	SOLDER	→	→	→	5"
9	BUSS	22	S2-NO	SOLDER	S3-NC	SOLDER	→	.75"
9	BUSS	22	S2-NC	SOLDER	S3-NO	SOLDER	→	.75"
8	BRN	26	S3-C	SOLDER	→	→	→	5"
8	BRN	26	S4-C	SOLDER	→	→	→	6"
8	BRN	26	S4-NO	SOLDER	→	→	→	4.5"

NOTES:  
1. CONTACTS MUST BE ADJUSTED AT ASSY TO OBTAIN MINIMUM DIMENSION FROM BOTTOM SURFACE OF SWITCHES TO BOTTOM SURFACE OF SWITCH BLOCK.



QTY.	DESCRIPTION	PART NO.	ITEM NO.
A/R	WIRE, BUSS, #22 AWG	9107560-01	9
A/R	WIRE #26 AWG, IPVC, STRD	9107636-11	8
2	SCR, PHL HD PAN 2-56Y 1/2 SST	9006005-1	7
2	SCR, PHL HD PAN 2-56Y 3/4 SST	9006006-1	6
4	WASHER, 250Y 084 X 20TAK	9008871	5
4	WASHER, INT TOOTH #2 SST	9006631	4
3	SWITCH, MICRO	1209782	3
1	SPACER, MICRO SWITCH	C-MD-7409935-00	2
1	BLOCK, SWITCH	C-MD-7409926-0-0	1

FIRST USED ON OPTION/MODEL TU60		PARTS LIST	
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN 11/2/72	DATE 11/2/72	<p>TITLE SWITCH ASSY</p>
DECIMALS	CHK'D 11/2/72	DATE 11/2/72	
ANGLES	ENG 11/2/72	DATE 11/2/72	
XXX - 005 XX - 02 X - 1	PROJ. ENG.	DATE	
REMOVE BURRS AND BREAK SHARP CORNERS. SURFACE QUALITY	PROD.	DATE	
MATERIAL	NEXT HIGHER ASSY.	SIZE CODE	NUMBER
FINISH	D-AD-7009141-0-0	D-AD	7009141-0-0
	SCALE 2/1	SHEET 1 OF 1	REV. A

REVISIONS

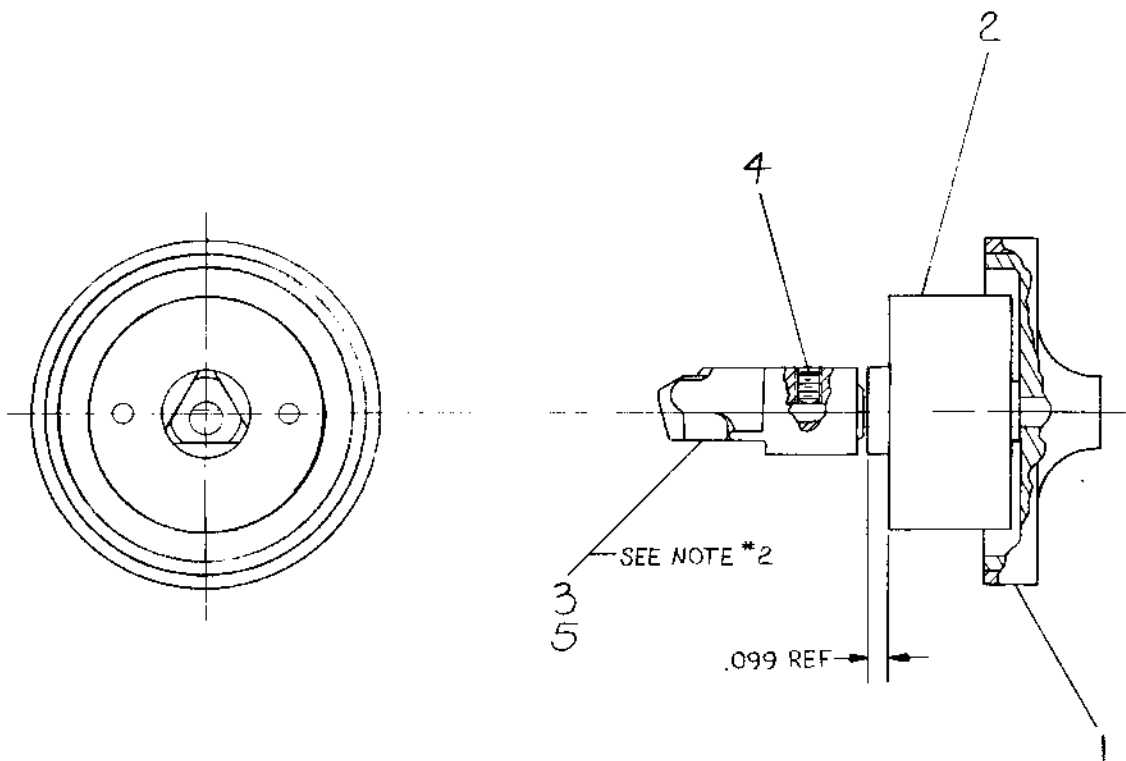
CHK	CHANGE NO.	REV.
	TU60-00012	A
		B
		C
		D

DATE: 11/2/72  
M. LEIS

RUNNING 40-107 15885

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1972

NOTES:  
1. ITEM #4 TO BE USED TO HOLD TOGETHER THE SPINDLE.  
2. LOCTITE TO BE USED BETWEEN SPINDLE SHAFT AND I.D. OF COUPLING. APPLY LOCTITE TO I.D. OF COUPLING AND OIL P ON SPINDLE SHAFT. BE SURE LOCTITE DOES NOT RUN DOWN TO BEARING.



A  
B  
C  
D

D  
C  
B  
A

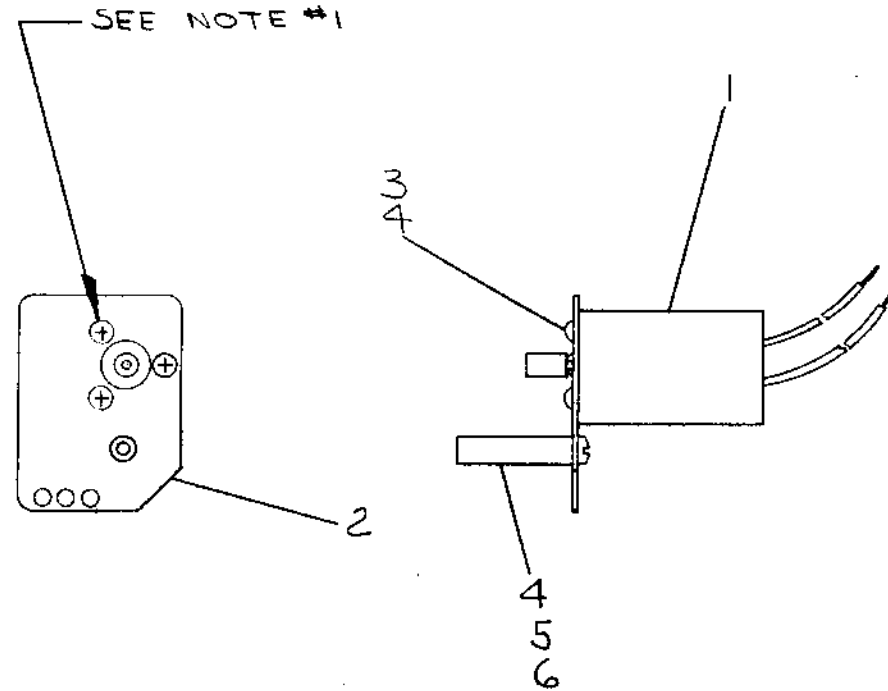
BRUNING 40-107 15968	REV. A	12/12/72	W. BENSON
CHG	CHANGE NO.	REV.	
TU60-00004	A		
DRG			
W. BENSON			
12/12/72			
TU60-00004	B		
V. LEMPSY			
3-27-73			

A/R	LOCTITE IS 150		5
1	SCREW, SET, #2-56	9009274	4
1	COUPLING, CASSETTE DRIVE	D-PS-1211279-0-0	3
1	BEARING	C-MD-7410692-0-0	2
1	PULLEY, DRIVE ASSY	C-IA-7409914-0-0	1

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
TU60				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES	DRN 2/11/72	DATE	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
DECIMALS	CHK'D.	DATE	TITLE	
.XXX = .005	ENG.	DATE	SPINDLE ASSY	
.XX = .02	PROJ. ENG.	DATE		
.X = .1	PBR	DATE		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL	NEXT HIGHER ASSY.		SIZE CODE	NUMBER
			C AD	7009146-0-0
FINISH	SCALE 2/1			REV B
	SHEET 1 OF 1		DIST.	

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NOTES:  
1. LOCTITE (#4) TO BE APPLIED TO THREADS OF ITEMS #3 & #E.



QTY.	DESCRIPTION	PART NO.	ITEM NO.
1	PIVOT, MOTOR	GMD-7409915-0-0	6
1	SCR, SLOT HD PAN	9009277	5
A/R	LOCTITE 242		4
3	SCR, PHL PAN HD 4-40-1/4	9008301-1	3
1	MOUNT, MOTOR	GMD-7409910-0-0	2
1	DRIVE MOTOR ASSY	G-IA-7009139-0-0	1

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
TU60				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		DRN. <i>K Davis</i>	DATE 9-12-72	<b>digital</b> EQUIPMENT CORPORATION <small>MAYNARD, MASSACHUSETTS</small> TITLE <b>MOTOR MOUNT ASSY</b>
DECIMALS	ANGLES	CHK'D. <i>W. Major</i>	DATE 11/1/72	
.XXX - .005	±0° 30'	ENG. <i>W. Benson</i>	DATE 11/1/72	
.XX - .02		PROJ. ENG. <i>W. Benson</i>	DATE 4/6/72	
.X - .1		BRN. <i>W. Benson</i>	DATE 11/1/72	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL		NEXT HIGHER ASSY.		
FINISH		D-AD-7009014-0-0		
		SCALE		
		SHEET	OF	
		DIST.		

REV.	CHANGE NO.	DATE	BY
A	TU60-00012	9-7-73	<i>M. Leis</i>

BRUNING 40-107 15988

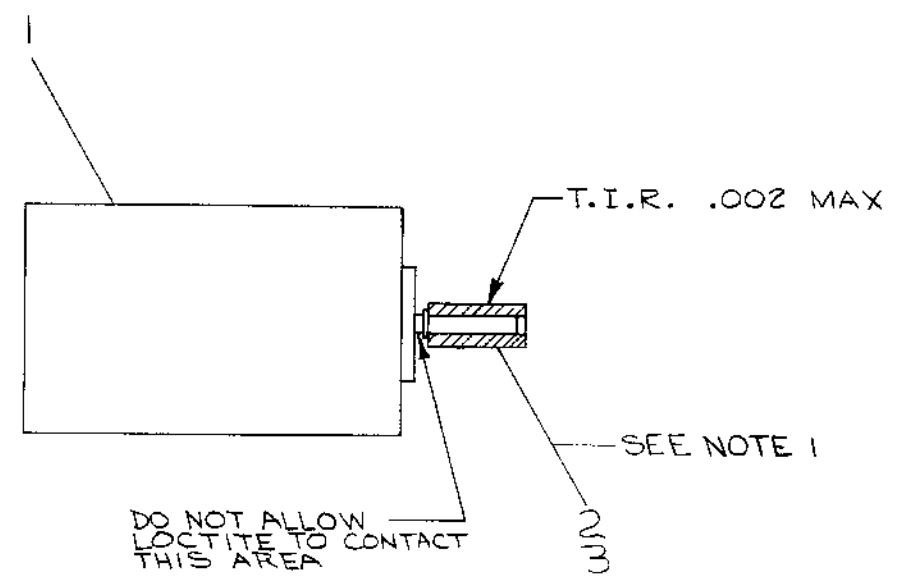
CHK. *M. Leis*

DEC FORM NO. DRC 100-A

NUMBER  
 7009140-0-0  
 REV. A  
 SIZE CODE  
 C AD

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NOTES:  
 1. SLEEVE (72) TO BE PREPARED ON MOTOR SHAFT TO THE RING. LOCTITE TO BE APPLIED SPECIFICALLY TO INSIDE OF SLEEVE BEFORE ASSEMBLY.



BRUNING 40-107 15968	REVISIONS	REV.	A
	CHANGE NO.	TU60-00012	
	CHK	M. LEIS	

DEC FORM NO. DRC 100-A

FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.											
TUC2																
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		PARTS LIST														
DECIMALS	ANGLES	<table border="1"> <tr> <td>DRN.</td> <td>DATE</td> <td rowspan="5"> </td> </tr> <tr> <td>CHK'D.</td> <td>DATE</td> </tr> <tr> <td>ENG.</td> <td>DATE</td> </tr> <tr> <td>PROJ. ENG.</td> <td>DATE</td> </tr> <tr> <td>DATE</td> <td>DATE</td> </tr> </table>				DRN.	DATE		CHK'D.	DATE	ENG.	DATE	PROJ. ENG.	DATE	DATE	DATE
DRN.	DATE															
CHK'D.	DATE															
ENG.	DATE															
PROJ. ENG.	DATE															
DATE	DATE															
.XXX = .005 .XX = .02 X = .1	±0° 30'	TITLE														
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		DRIVE-MOTOR ASSY														
MATERIAL		NEXT HIGHER ASSY.														
FINISH		SCALE 2/1														
		SHEET 1 OF 1		DIST. G												

REV. A  
 NUMBER 7009139-0-0  
 SIZE CODE C IA

A  
 B  
 C  
 D

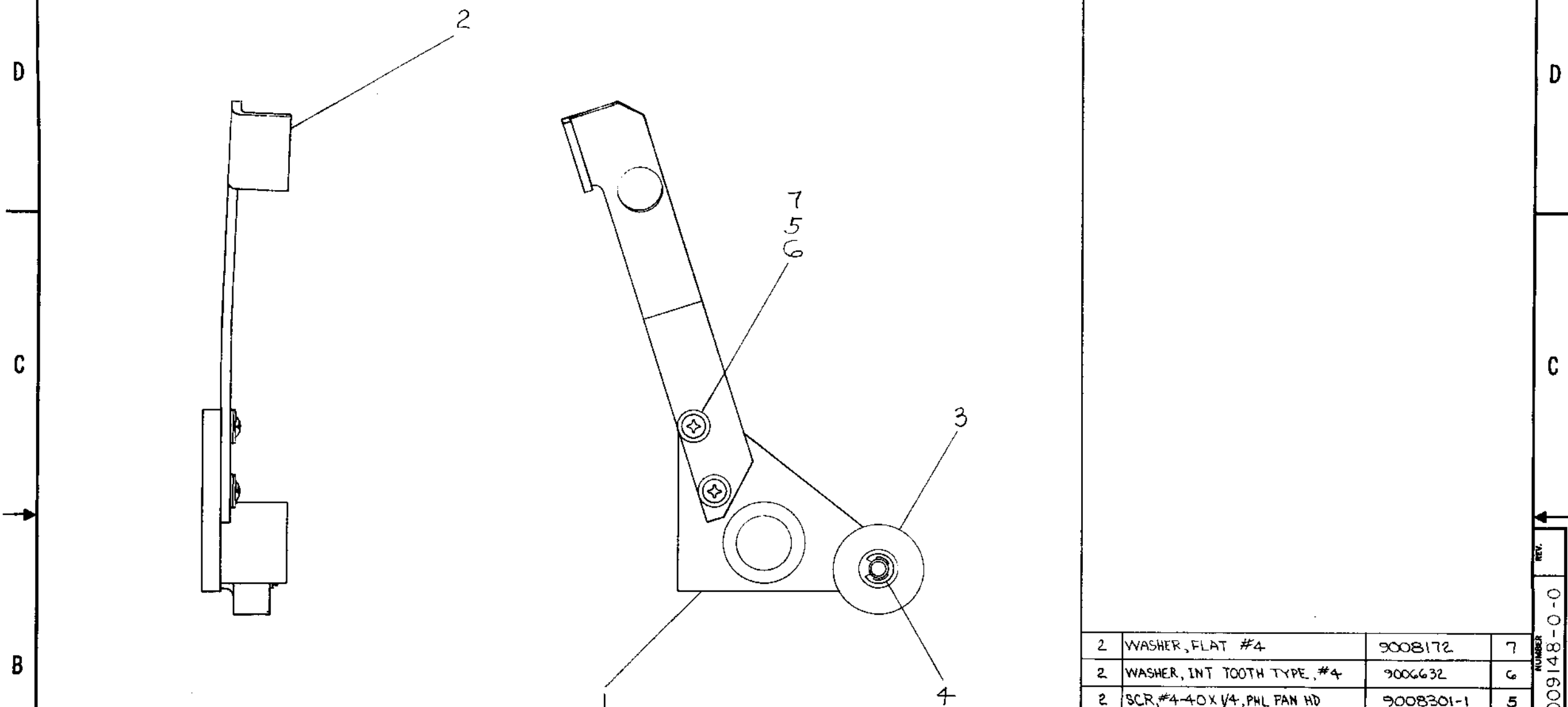
4

3

2

1

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QTY.	DESCRIPTION	PART NO.	ITEM NO.
2	WASHER, FLAT #4	9008172	7
2	WASHER, INT TOOTH TYPE, #4	9006632	6
2	SCR, #4-40 X 1/4, PHL PAN HD	9008301-1	5
1	RING, RETAINING	9009273	4
1	ROLLER, IDLER	B-MD-7409932-0-0	3
1	LEVER, ROCKER	C-MD-7409931-0-0	2
1	ROCKER ASSY	C-IA-7409919-0-0	1

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
TU60				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		DRM: <i>Z. Carberry</i> DATE 9/12/72	<b>digital</b> EQUIPMENT CORPORATION <small>MAYNARD MASSACHUSETTS</small> TITLE <h2 style="margin: 0;">LEVER ASSY</h2>	
DECIMALS	ANGLES	CHK'D: <i>W. Major</i> DATE 11/1/72		
.XXX = .005	± 0° 30'	ENG: <i>W. Major</i> DATE 11/1/72		
.XX = .02		PROJ. ENG: <i>W. Major</i> DATE 11/6/72		
X = .1		PROD: <i>W. Major</i> DATE 11/1/72		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		NEXT HIGHER ASSY.		
MATERIAL		DAD 700.014-0-0		
FINISH		SCALE 2/1		
		SHEET 1 OF 1		

REV.	CHANGE NO.

BRUNING 40-107 15968

REV. NUMBER  
C AD 7009148-0-0

A

A

D

D

C

C

B

B

A

A

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**DIGITAL EQUIPMENT CORPORATION**  
MAYNARD, MASSACHUSETTS

**ENGINEERING SPECIFICATION**

DATE 12-13-72

TITLE TA8 FIELD INSTALLATION AND ACCEPTANCE PROCEDURE

REVISIONS

REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE

**ENGINEERING SPECIFICATION**



CONTINUATION SHEET

TITLE TA8 Field Installation and Acceptance Procedure

1.0 HARDWARE

1.1 TA8E DECASSETTE Interface Module (M8331)

1.2 TU60 DECASSETTE, Dual Drive

1.2.1 TA8-AA, TU60-AA Cass., Dual Drive 115VAC  
50-60 Hz, Rackmountable

1.2.2 TA8-AB, TU60-AB Cass., Dual Drive 230VAC,  
50-60 HZ, Rack Mountable

1.2.3 TA8-BA, TU60-BA Cass., Dual Drive 115VAC  
50-60 Hz, Table Top

1.2.4 TA8-BB, TU60-BB Cass., Dual Drive 230VAC  
50-60 Hz, Table Top

1.3 Interface Cables

1.3.1 (2) BC08-R-10, Flat Cable (used with TA8-A)

1.3.2 (1) 70-08624, Round Cassette Cable, 20 feet,  
(used with TA8-B)

1.4 System Hardware Requirements

1.4.1 ASR Teletype, or equivalent

1.4.2 Programmer Console

1.4.3 A PDP-8E, 8M, or 8F with at least 4K  
of Read/Write Memory.

2.0 ACCESSORIES

2.1 Cassette, Maindecs - LIBKIT-8E-TA8E

2.1.1 TA8E Cassette Diagnostic  
Maindec-08-DHTAA-A-PB  
Maindec-08-DHTAA-A-D

2.1.2 TA8E Data Reliability  
Maindec-08-DHTAB-A-PB  
Maindec-08-DHTAB-A-D

ENG <i>L. Harli</i> 12/13/72	APPD <i>L. Harli</i> 12/13/72	SIZE <b>A</b>	CODE SP	NUMBER TA8-0-6	REV
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DEC FORM NO. DRA 107

SIZE <b>A</b>	CODE SP	NUMBER TA8-0-6	REV
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DEC FORM NO. DEC 16-(381)-1022-N370  
DRA 108



**ENGINEERING SPECIFICATION**

CONTINUATION SHEET

TITLE TA8 Field Installation and Acceptance Procedure (continued)

2.0 continued

- 2.2 TA8E Maintenance Manual  
DEC-8E-HR3B-TA8E-D
- 2.3 TU60 Maintenance Manual  
DEC-00-TU60-DA
- 2.4 TA8 Print Set  
B-DD-TA8-E-D  
B-DD-T60-0-0
- 2.5 DECASSETTE Tapes (2)  
36-11226

3.0 TOOLS

- 3.1 The following tools are the only ones necessary to install and perform the Acceptance Procedure.
  - 3.1.1 If the TA8 is rack mounted, some sort of pallet handling equipment is needed to position the system.
  - 3.1.2 A philips head screw driver.
  - 3.1.3 A box cutter, if TU60 is in a separate container.
  - 3.1.4 If TU60 is rack mounted, a 10in adjustable wrench to remove the pallet.

4.0 UNPACKING AND INSPECTION

4.1 Rack Mounted

- 4.1.1 Place the rack in the final installation location and remove the protective covering.
- 4.1.2 Remove the bolts securing the rack to the pallet and raise the leveling legs.
- 4.1.3 Carefully roll the rack off the pallet.
- 4.1.4 Open the rear door of the rack and remove the shipping brackets from the rear of each TU60. Retain the brackets for possible future shipments.
- 4.1.5 Slide the TU60 out from the rack and remove the top cover.
- 4.1.6 Inspect the TU60 and, if any, record all damage on the Acceptance Form.

SIZE	CODE	NUMBER	REV
A	SP	TA8-0-6	

**ENGINEERING SPECIFICATION**

CONTINUATION SHEET

TITLE TA8 Field Installation and Acceptance Procedure (continued)

4.0 continued

4.2 Shipped in a separate container.

- 4.2.1 Using a box cutter open the container and remove the foam and corrugated packing pieces.
- 4.2.2 Lift the transport out of the carton and remove the plastic shipping bag.
- 4.2.3 If the TU60 is to be rack mounted, unpack the chassis slides and install them onto the rack. (Refer to Drawing C-AR-TA8-5-0 for correct configuration). Then install the chassis slide receptacles in both slides in the rack to their stops and insert the transport.
- 4.2.4 Remove the top cover and inspect the transport, recording any damage on the Acceptance Form.

4.3 Both Rack Mounted and Separate Container

- 4.3.1 Using the parts list (A-PL-TA8-E-0) and accessory list (A-AL-TA8-E-0) verify that all items are present.
- 4.3.2 Inspect the interface (M8331) and control modules (M7760 and M7761) to insure circuit and etch revisions match those on the ECO status sheet.
- 4.3.3 Check the interface module (M8331) to insure that the device code is correct. (Normally 670X for the first TA8E-677X for the eight or last TA8E). Refer to drawing D-CS-M8331-0-1 for proper jumper configuration.
- 4.3.4 Check power supply line cord assembly to ensure that the transport is configured properly for the input power to be used. Line cord breaker assembly BC05-H is for 115VAC operation and BC05-J is for 230 VAC operation.
- 4.3.5 Record any discrepancies on the Acceptance Form.

SIZE	CODE	NUMBER	REV
A	SP	TA8-0-6	

**ENGINEERING SPECIFICATION**

CONTINUATION SHEET

TITLE TA8 Field Installation and Acceptance Procedure (continued)

5.0 INSTALLATION

- 5.1 Insure that the power switch on the PDP-8E, 8M, or 8F is turned off and that the power source for the TU60 is denergized.
- 5.2 Connect the interface cable(s) to the M8331 module. Refer to the TA8E power wiring and cable configuration drawing (C-IC-TA8-E-1) for instructions.
- 5.3 Insert the M8331 module into the Omnibus, refer to recommended omnibus module assignments (A-SP-PDP-8E-0-4) and route the interface cable(s) through the strain relief.
- 5.4 Route the cable(s) through the opening below the fan in the rear of the TU60 and under the strain relief.
- 5.5 Connect the cable(s) to the M7760 module, again referring to the TA8E power wiring and cable configurations drawing (C-IC-TA8-E-1).
- 5.6 Connect the TU60's AC power cord to a source of switched AC power.

6.0 ACCEPTANCE

6.1 Test Procedure

NOTE

Any failures observed (refer to 7.0 ) while performing this procedure should be corrected before preceding to the next step.

- 6.1.1 Place the TU60's power switch (rear of chassis) in the Off position.
- 6.1.2 Energize the PDP-8E,8M or 8F.
- 6.1.3 Place the TU60's power switch in the ON position, and observe that the two (one on each drive) power ON indicators light.

SIZE	CODE	NUMBER	REV
A	SP	TA8-0-6	

**ENGINEERING SPECIFICATION**

CONTINUATION SHEET

TITLE TA8 Field Installation and Acceptance Procedure (continued)

6.0 continued

- 6.1.4 Insert a "scratch" cassette into each drive with the tape wound around the lower reel. (Refer to cassette insertion and removal procedure in the TU60 cassette tape transport Maintenance Manual, Chapter 2.) Check that the drive receives the tape without binding.
- 6.1.5 Check that tape does not "creep" from one reel to the other. (To correct refer TU60 Maintenance Manual Chapter 5.)
- 6.1.6 Momentarily depress the rewind pushbutton on each drive and insure that the tape completely rewinds to the BOT clear leader, (about 20 seconds).
- 6.1.7 Momentarily depress the rewind pushbutton on each drive again, and insure that the drive rewinds for cassette about one second, hitting the stops!
- 6.1.8 Perform the following tests, in order, using the loading and operating procedure in the programs document.
  - 6.1.8.1 TA8E Cassette Diagnostic
    - A. Static Test -3 Passes per TU60
    - B. Control Test -3 Passes per Drive
    - C. Write Protect -1 Pass per Drive
    - D. Data Test -4 Passes per Drive
  - 6.1.8.2 TA8E Data Reliability Test
    - A. Format Cassettes -1 Pass per drive
    - B. Read Only to EOT Forever - 1 pass per drive
    - C. Data Reliability Test - 6 passes per drive

SIZE	CODE	NUMBER	REV
A	SP	TA8-0-6	

TITLE TAB Field Installation and Acceptance Procedure

7.0 DIAGNOSTIC FAILURE

- 7.1 Any TABE/TU60 which while performing acceptance tests haults, generates error printouts, garbles or runs other than as specified in the diagnostic's document, will be classified as a failure and must be repaired. However, errors will be allowed per 7.2 and 7.3.
- 7.2 One READ error, per drive, while performing steps 6.1.8.1-D to 6.1.8.2-D is acceptable.
- 7.3 If, while performing step 6.1.8 more than one READ error per drive is observed the testing should be stopped. The head and tape guides should be cleaned using magnetic tape head cleaner. The cassette should be examined for any dirt on the tape surface, and replaced in the drive. Testing should be continued starting with step 6.1.8.1-D.

If any errors occur on the forementioned drive, after the cassette has been replaced the TABE/TU60 should be repaired or adjusted. (Refer to the maintenance section of the TABE or TU60 for troubleshooting aids.)

SIZE	CODE	NUMBER	REV
A	SP	TAB-0-6	