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D

C

B

A

INPUT/OUTPUT TRUTH TABLE

IN	OUT
GND	GND
+3V	+3V

TU15 RDS L AF1
TU12 RSDWN L AE1
TU12 RTUR L AD1

TU17 XRD 0 L AA1
TU17 XRD 1 L AB1
TU17 XRD 2 L AH1
TU17 XRD 3 L AK1
TU17 XRD 4 L AL1
TU17 XRD 5 L AN1
TU17 XRD 6 L AS1
TU17 XRD 7 L AT1
TU17 XRDPL AM1
TU15 FMK L AV1

M640
AB08

MASTER/
INTERFACE
BUS
DRIVER
*

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

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

BA1
BB1
BC1

BF1
BH1
BJ1
BK1
BL1
BM1
BN1
BP1
BR1
BS1

BD2
BE2
BF2

BK2
BL2
BM2
BN2
BP2
BR2
BS2
BT2
BU2

M929
B07

A1 C RDS L
B1 C SWDN L
C1 C TUR L
D1
E1
F1 C RD 0 L
H1 C RD 1 L
J1 C RD 2 L
K1 C RD 3 L
L1 C RD 4 L
M1 C RD 5 L
N1 C RD 6 L
P1 C RD 7 L
R1 C RDP L
S1 C FMK L
T1
U1
V1

M929
B07

A2 C WRS L
B2 C CRCS L
C2 C RWS L
D2
E2
F2
H2 C BOT L
J2 C WRL L
K2 C VPE L
L2 C SELR L
M2 C 7CH L
N2 C EOT L
P2 C CRCE L
R2 C LRCE L
S2 C LRCS L
T2
U2
V2

M929
A07

A1 C SEL 0 H
B1 C SEL 1 H
C1 C SEL 2 H
D1
E1 C DEN 8 H
F1 C DEN 5 H
H1
J1 C WEXG H
K1 C FOR H
L1 C REW H
M1 C WRE H
N1
P1
R1
S1
T1
U1
V1

M929
A07

A2 C WD 0 H
B2 C WD 1 H
C2 C WD 2 H
D2 C WD 3 H
E2 C WD 4 H
F2 C WD 5 H
H2 C WD 6 H
J2 C WD 7 H
K2 C REV H
L2 C INITH
M2 C SETH
N2 C WDR H
P2 C PEVN H
R2 C WFMK H
S2
T2
U2
V2

MASTER/INTERFACE CABLE
(DOUBLE HEIGHT MODULE)

M100, A15
SLAVE/MASTER
BUS DRIVER

TU07 BTUR H AI RTUR L
TU08 BRDP H DI EI RRDP L
TU08 BRD0 H FI HI RR0 L
TU08 BRD1 H JI KI RRDI L
TU08 BRD2 H LI MI RR2 L
TU08 BRD3 H NI PI RR3 L
TU08 BRD4 H RI SI RR4 L
TU08 BRD5 H VI UI RR5 L
TU08 BRD6 H E2 F2 RR6 L
TU08 BRD7 H H2 J2 RR7 L
TU07 B7CH H K2 L2 R7CH L
TU07 BC556 H M2 N2 RC556 L
TU07 BC800 H P2 R2 RC800 L
TU07 BSKEW H S2 T2 RSD L
TU07 BSDWN H U2 V2 RSDWN L

IN	OUT
GND	GND
-3V	+3V

FIRST USED ON OPT/MOD TUI0	QTY.	DESCRIPTION	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED				
UNLESS OTHERWISE SPECIFIED	DRN. DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		
DIMENSION IN INCHES	CHK'D. DATE	TITLE		
TOLERANCES	ENG. DATE	MASTER BUS DRIVERS & INTERCONN		
DECIMALS FRACTIONS ANGLES	DATE	TU-12		
± .005 ± 1/64 ± 0°30'	DATE	SIZE CODE NUMBER REV		
FINAL SURFACE QUALITY	DATE	DBS TUI0-0-12 A		
REMOVE BURRS AND BREAK SHARP CORNERS	DATE	DIST.		
MATERIAL	NEXT HIGHER ASSY	SCALE		
FINISH	A-ML-TUI0-0	SHEET 1 OF 2		

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21-0-010101 2

D

C

B

A

D

C

B

A

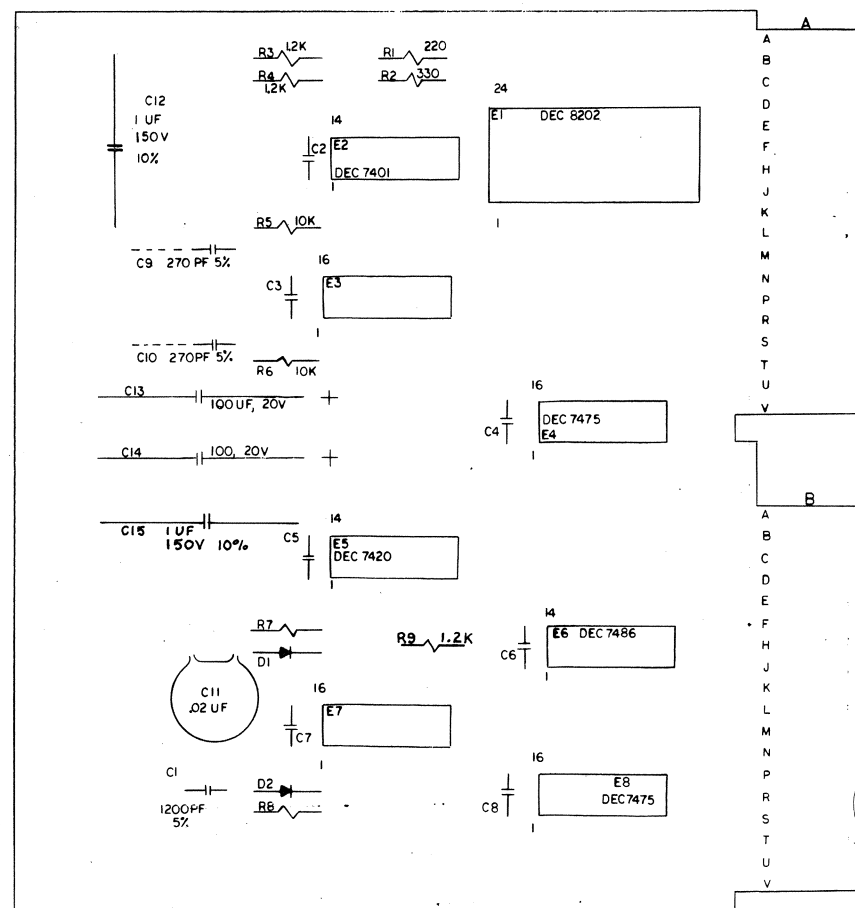
TRUTH TABLE		
IN	B	OUT
A	GND	GND
GND	+3V	-3V
+3V	GND	-3V
+3V	+3V	-3V

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

FIRST USED ON	OPT/MOD	QTY.	DESCRIPTION	PART NO.	ITEM NO.
TUI0					
UNLESS OTHERWISE SPECIFIED		PARTS LIST			
UNLESS OTHERWISE SPECIFIED		digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			
DIMENSION IN INCHES		TITLE			
TOLERANCES		MASTER BUS DRIVERS & INTERCONN			
DECIMALS FRACTIONS ANGLES		TU-12			
± .005 ± 1/64 ± 0°30'		REV. A			
FINAL SURFACE QUALITY		SIZE CODE			
REMOVE BURRS AND BREAK SHARP CORNERS		DBS TUI0-0-12			
MATERIAL		DIST.			
FINISH		SHEET 2 OF 2			

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REV A
NUMBER M7672-0-1
D CS
SIZE 3/16



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

SHEET 1 OF 2

REVISIONS	DATE	BY	APP
1	10/01/89	A	

DATE 2/19/91
BY [Signature]
CHKD [Signature]
ENG [Signature]
DATE 5-1-91
DATE 7/2/91

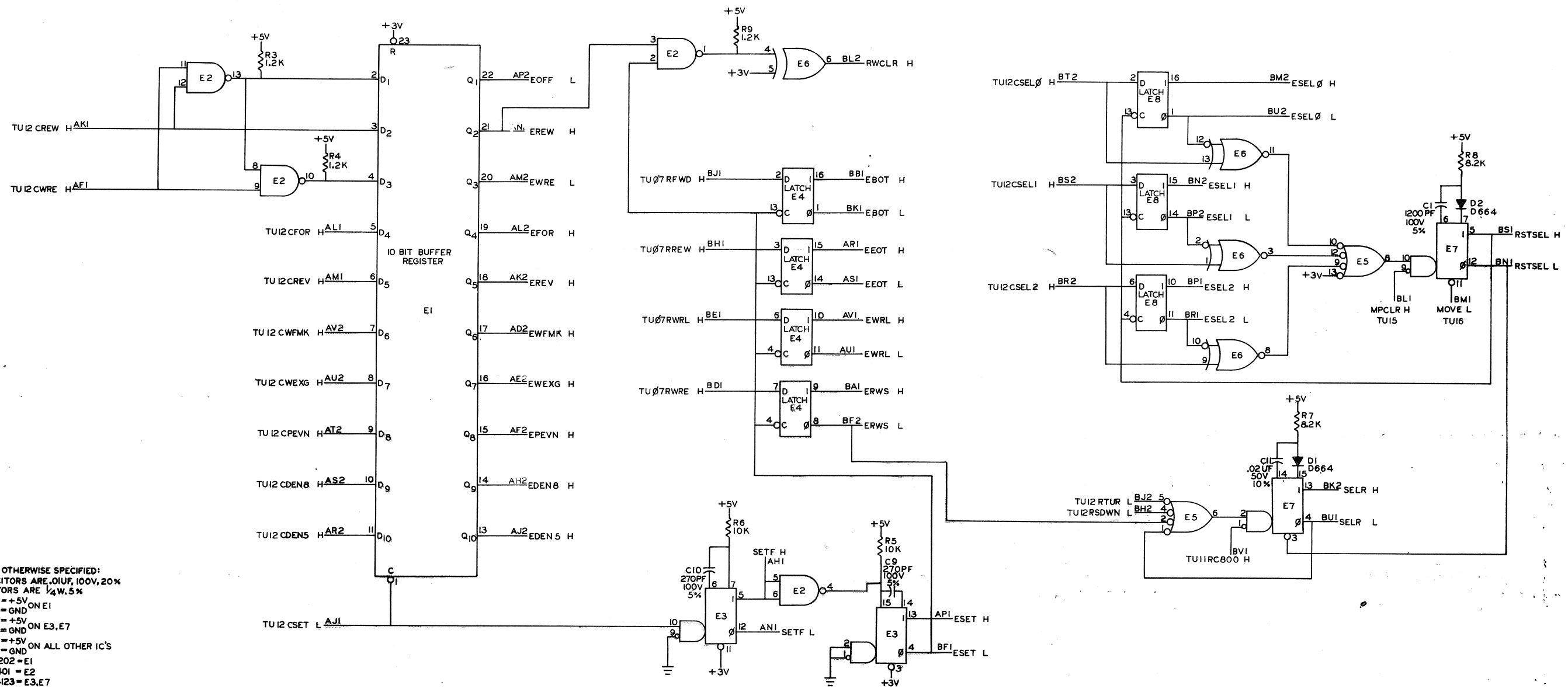
TRANSISTOR & DIODE CONVERSION CHART	DEC	EIA	DEC	EIA

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

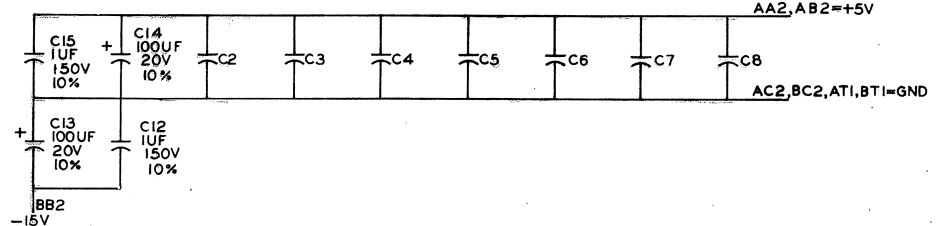
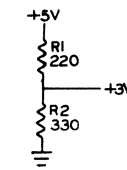
TITLE	SIZE	CODE	NUMBER	REV.
TU 10 COMMAND BUFFERS TU13	D	CS	M7672-0-1	A
PRINTED CIRCUIT REV.				

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



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



SHEET 2 OF 2

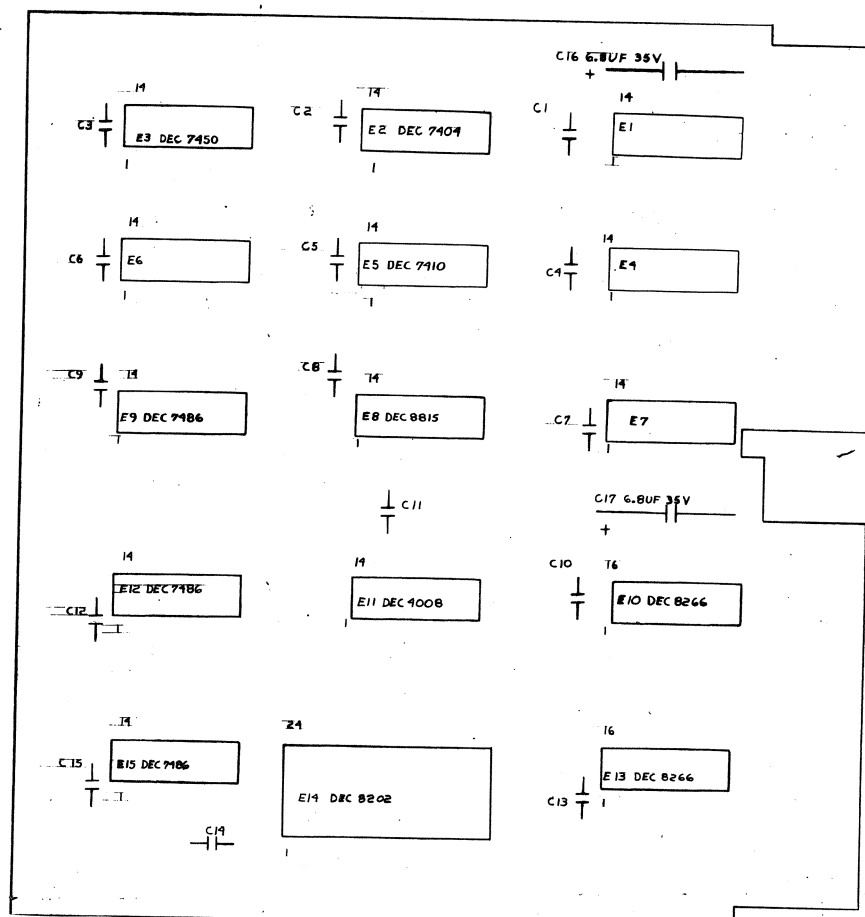
REVISIONS	DATE	TRANSISTOR & DIODE CONVERSION CHART	TITLE
1	2-19-71	DEC EIA DEC EIA	TU 10 COMMAND
2	5-1-71	D664 1N3606	BUFFERS TU13
3	11-1-71		
4	11-1-71		
5	11-1-71		
6	11-1-71		
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98	11-1-71		
99	11-1-71		
100	11-1-71		

DEC FORM NO. 115

REV. A
M7672-0-1
D CS

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0 1-0-168W 0
A3N 338MNM 3000 3/15



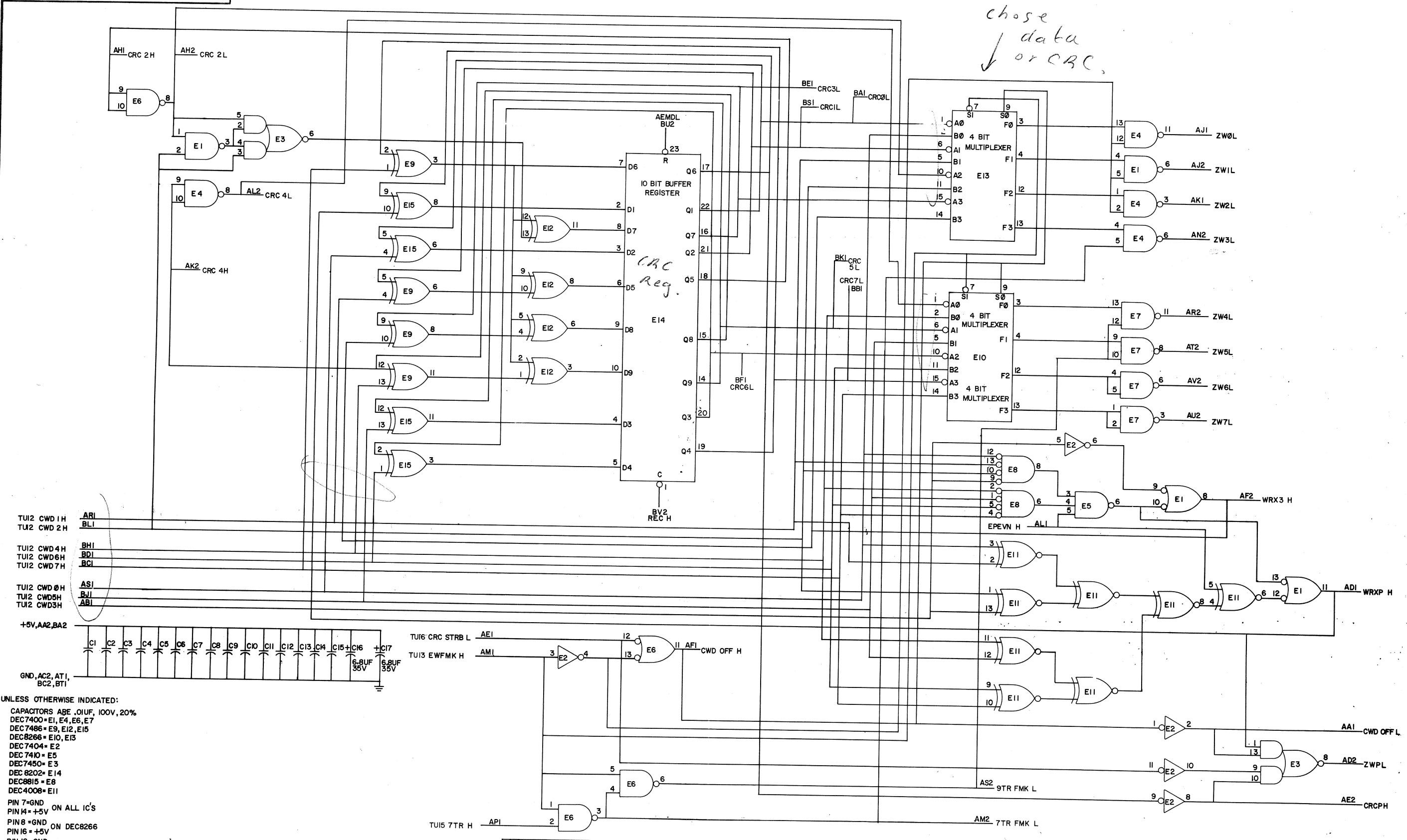
A/R		GRIPLET	1210244-0	18
4		HANDLE, EYELET	9006732	17
2		HANDLE, FLIP CHIP - MAGENTA	9008337-06	16
1	E14	I.C. DEC 8202	1910275	15
1	E11	I.C. DEC 4008	1910270	14
3	E12, 15, 9	I.C. DEC 7486	1910011	13
2	E10, 13	I.C. DEC 8266	1909934	12
1	E8	I.C. DEC 8815	1909713	11
1	E2	I.C. DEC 7404	1909686	10
1	E3	I.C. DEC 7450	1905580	9
1	E5	I.C. DEC 7410	1905576	8
4	E1, 4, 6, 7	I.C. DEC 7400	1905575	7
15	C1 - 15	CAP. .01UF 100V 20%	1001610	6
2	C16, 17	CAP. 6.8UF 35V 20%	1000067	5
1		ETCHED CIRCUIT BOARD	500 9536	4
		ECO MODULE HISTORY	B-MH-M891-0-6	3
		ASSY/DRILLING HOLE LAYOUT	D-AH-M891-0-5	2
		X-Y COORDINATE HOLE LOCATION	K-CO-M891-0-4	1
QTY.	REF DESIGNATION	DESCRIPTION	DEC PART NO.	ITER NO.
		PARTS LIST		

DRN	DATE	TRANSISTOR & DIODE CONVERSION CHART	TITLE
5. Luper	4/30/71	DEC EIA DEC EIA	CRC
CHRD	DATE		EQUIPMENT
6. 20	5/11/71		CORPORATION
ENG	DATE		SIZE CODE
17. 20	5/12/71		D CS
18. 20	5/12/71		NUMBER
			M891-0-1
			PRINTED CIRCUIT REV.
			D

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

chose
data
or CRC



UNLESS OTHERWISE INDICATED:
CAPACITORS ARE .01UF, 100V, 20%
DEC7400 = E1, E4, E6, E7
DEC7486 = E9, E12, E15
DEC8266 = E10, E13
DEC7404 = E2
DEC7410 = E5
DEC7450 = E3
DEC8202 = E14
DEC8815 = E8
DEC4008 = E11
PIN 7 = GND
PIN 4 = +5V ON ALL IC'S
PIN 8 = GND
PIN 16 = +5V ON DEC8266
PIN 12 = GND
PIN 24 = +5V ON DEC8202

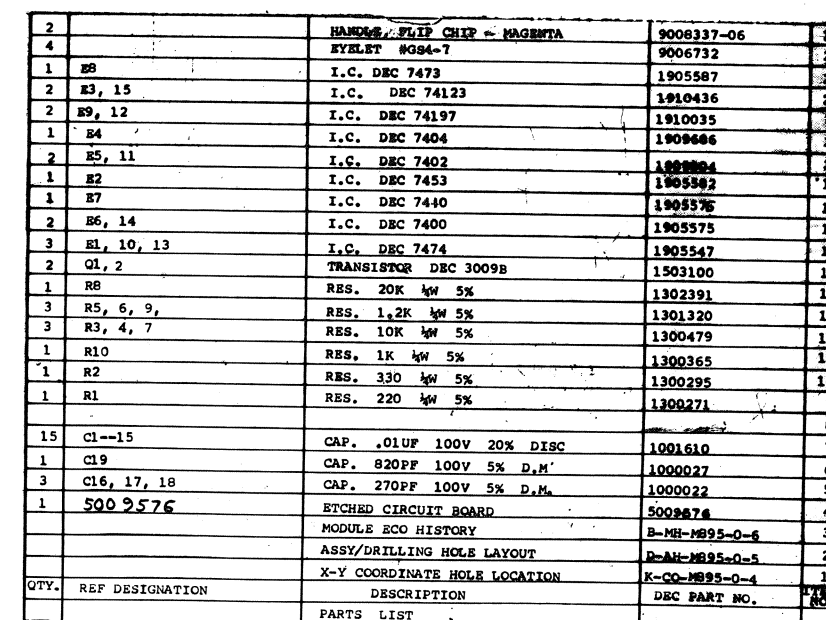
REV	NO	DATE
1	1	5/2/71

DGN: *Costa*
DATE: 5/2/71
CHKD: *Costa*
DATE: 5/2/71
ENG: *Costa*
DATE: 5/2/71
PRD: *Costa*
DATE: 5/2/71

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital		EQUIPMENT CORPORATION		MAYNARD, MASSACHUSETTS	
TITLE: CRC AND WRITE GATING TUI14		SIZE: D		CODE: CS	
NUMBER: M891-0-1		REV: C		PRINTED CIRCUIT REV: D	

REV	NUMBER	CS
J	1-0-0-1	CS

[illegible]

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

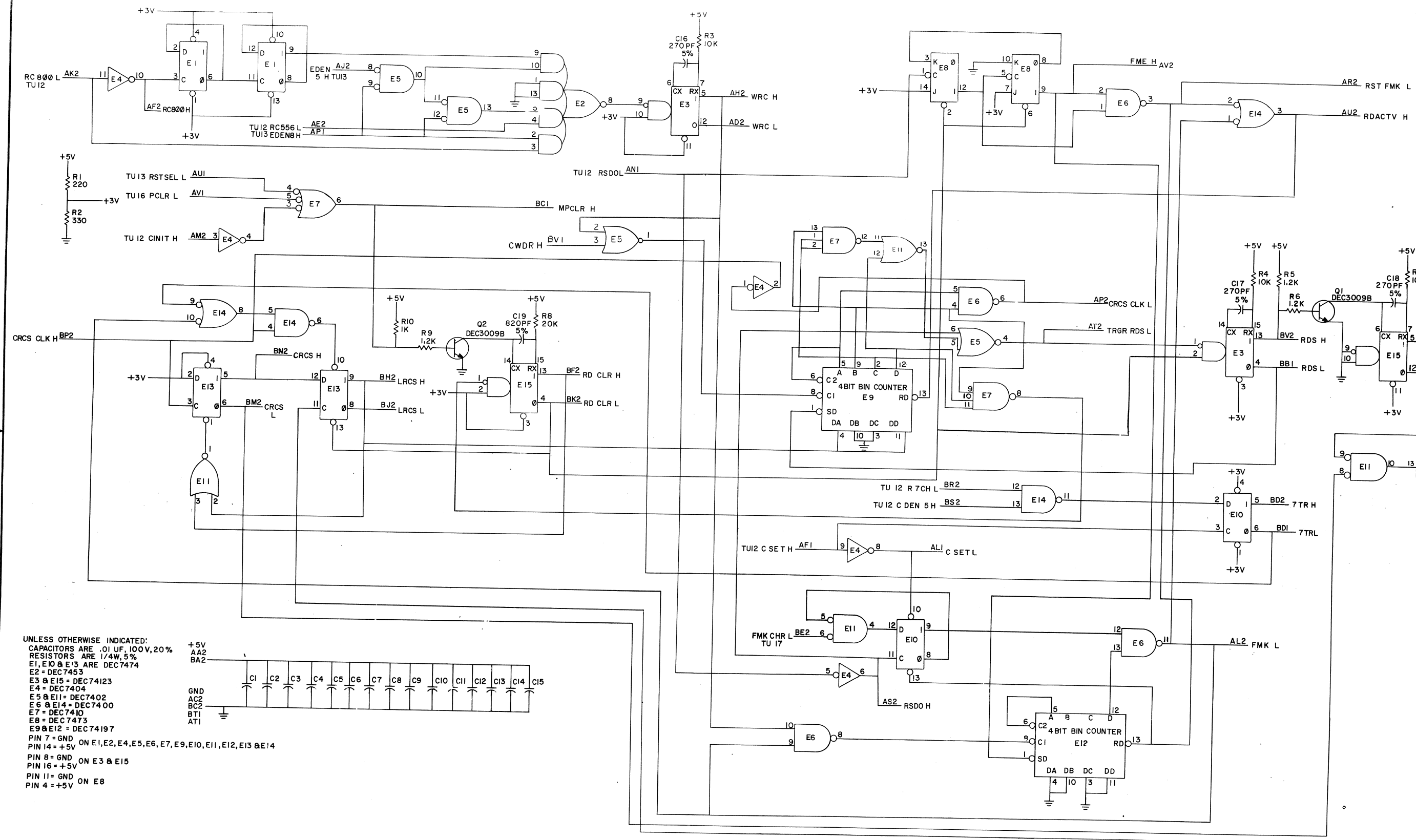
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digital
EQUIPMENT
CORPORATION
NAYNARD, MASSACHUSETTS

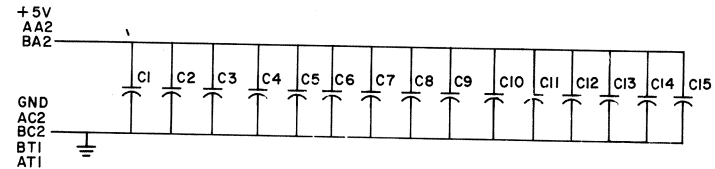
SHEET 1 OF 2			
TITLE			
READ TIMING TU 15			
SIZE D	CODE CS	NUMBER M895-0-1	REV. J

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D-568W 130 0



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



REVISIONS
CHK CHG NO REV

DATE	BY	CHKD	DATE	BY	CHKD	DATE	BY
5-1-71	5-1-71	5-1-71	5-1-71	5-1-71	5-1-71	5-1-71	5-1-71

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

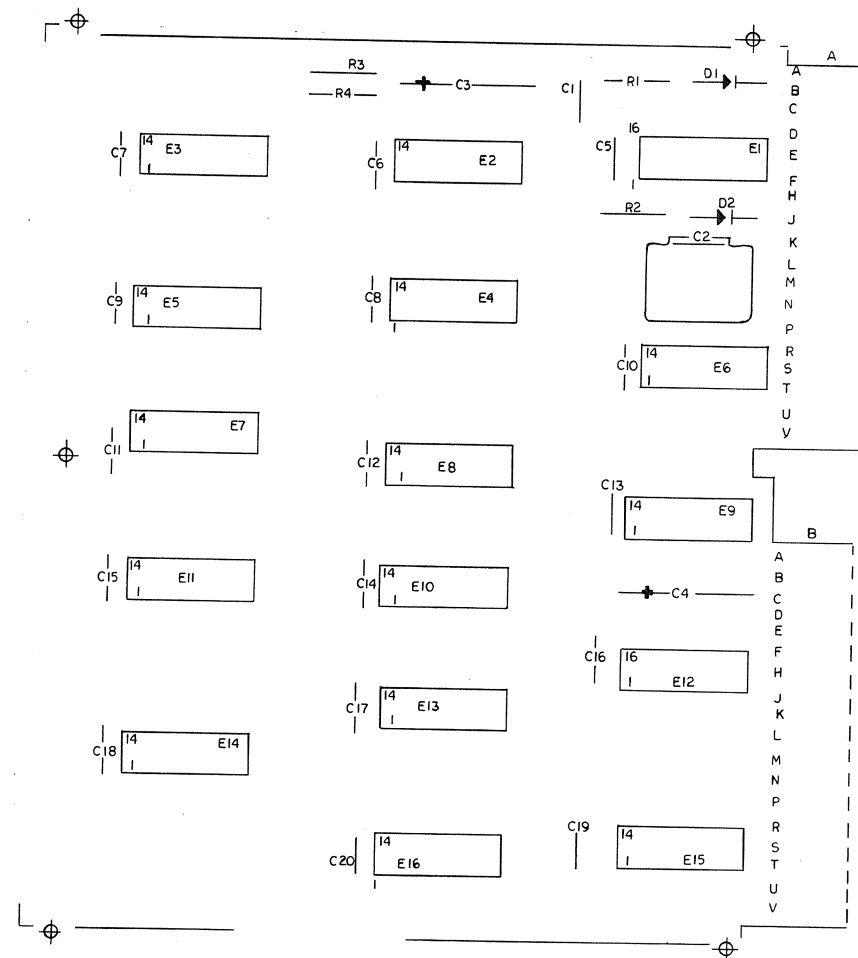
SHEET 2 OF 2

TITLE
READ TIMING TU15

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

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REV. E
NUMBER M892-0-1
D CS
SHEET 1 OF 2



QTY.	REF DESIGNATION	DESCRIPTION	DEC PART NO.	REV.
2		HANDLE, FLIP CHIP - MAGENTA	9006337-06	22
4		EYELET #684-7	9006732	21
1	E12	I.C. DEC 8266	1909934	20
3	R9, 10, 15	I.C. DEC 7400	1905575	19
2	R6, 16	I.C. DEC 7474	1905547	18
3	R4, 8, 13	I.C. DEC 7402	1909004	17
5	R3, 5, 7, 11, 14	I.C. DEC 74197	1910035	16
1	E2	I.C. DEC 7440	1905579	15
1	E1	I.C. DEC 74123	1910494	14
1	R4	RES. 330 Ω W 5%	1300295	13
1	R3	RES. 220 Ω W 5%	1300271	12
1	R2	RES. 7.5K Ω W 5%	1301422	11
1	R1	RES. 1.8K Ω W 5%	1300398	10
2	D1, 2	DIODE D664	1100114	9
16	C5 thru C20	CAP. .01UF 100V 20% DISC	1001610	8
2	C3, 4	CAP. 6.8UF 35V 20% $\pm$ TANT	1000067	7
1	C2	CAP. 2700PF 100V 5%	1001637	6
1	C1	CAP. 1200PF 100V 5%	1002424	5
1		ETCHED CIRCUIT BOARD	9006334	4
		MODULE ECO HISTORY	B-MH-M892-0-6	3
		ASSY/DRILLING HOLE LAYOUT	D-AH-M892-0-5	2
		X-Y COORDINATE HOLE LOCATION	K-CO-M892-0-4	1
		DESCRIPTION	DEC PART NO.	REV.
		PARTS LIST	SHEET 1 OF 2	

REVISIONS			
CHK	CHG NO.	REV.	
22	00001	C	
22	00002	D	
22	00003	E	
MORGANSTERN			
22			

100-365400-100

DEC FORM NO
DRD 116

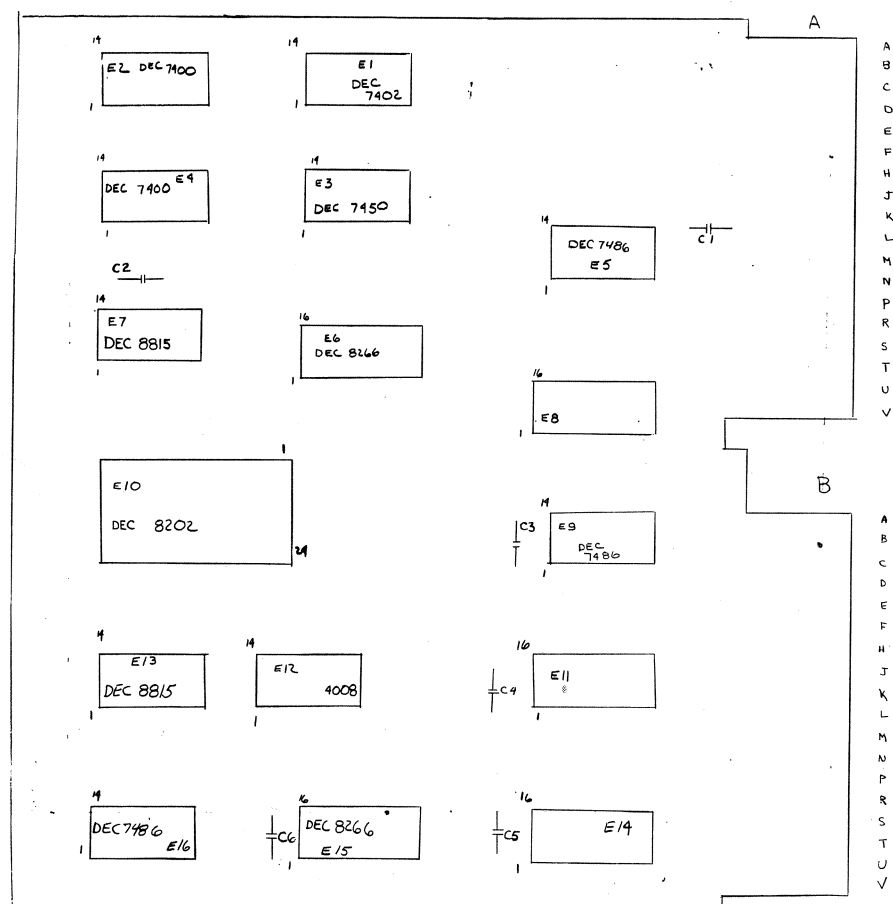
SHEET 2 OF 2

digital

MAYNARD, MASSACHUSETTS

PRINTED CIRCUIT REV.	E				
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REV	NUMBER	CS	DATE
A	M 7673-0-1		



2		HANDLE, FLIP CHIP - MAGETNA	9008337-06
4		EYELET #G94-7	90067322
3	E5, 9, 16	I.C. DEC 7486	1910011
1	E10	I.C. DEC 8202	1910275
1	E12	I.C. DEC 4008P	1910270
2	E6, 15	I.C. DEC 8266	1909934
2	E7, 13	I.C. DEC 8815	1909713
3	E8, 11, 14	I.C. DEC 7475	1909050
1	E1	I.C. DEC 7402	1909004
1	E3	I.C. DEC 7450	1905580
2	E2, 4	I.C. DEC 7400	1905575
6	C1 - C6	CAP. .01UF 100V 20% DISC	1001610
1		ETCHED CIRCUIT BOARD	5009569
		MODULE ECO HISTORY	B-MH-M7673-0-6
		ASSY/DRILLING HOLE LAYOUT	D-AH-M7673-0-5
		X-Y COORDINATE HOLE LOCATION	K-CO-M7672-0-4
QTY.	REF DESIGNATION	DESCRIPTION	DEC PART NO.
		PARTS LIST	SHEET 11 OF 2

DRN.	DATE
Roger J. Doucette	4/11
CHK'D	DATE
Ordway	4/28
ENG.	DATE
H. S. McFarland	5-1
PROD.	DATE
	11/2

	TRANSISTOR & DIODE CONVERSION CHART			
	DEC	EIA	DEC	EIA
7/1				
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digital
EQUIPMENT
CORPORATION
NAYNARD, MASSACHUSETTS

TITLE		TU 10 DATA CHECKER TU17	
SIZE D	CODE CS	NUMBER M 7673-0-1	REV. A

DEC FORM NO.
DD FORM 116

size	D	CS	NUMBER	REV
			M7673-0-1	A



REVISIONS		
CHK	CHG NO.	REV.

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

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digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

digital TITLE TU-10 DATA
CHECKER TU17

SIZE D	CODE CS	NUMBER M7673-0-
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REV	
A	

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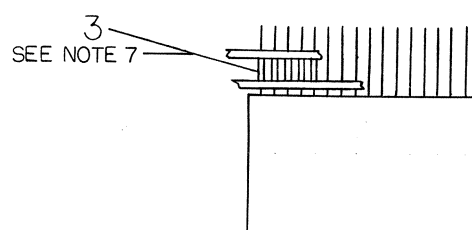
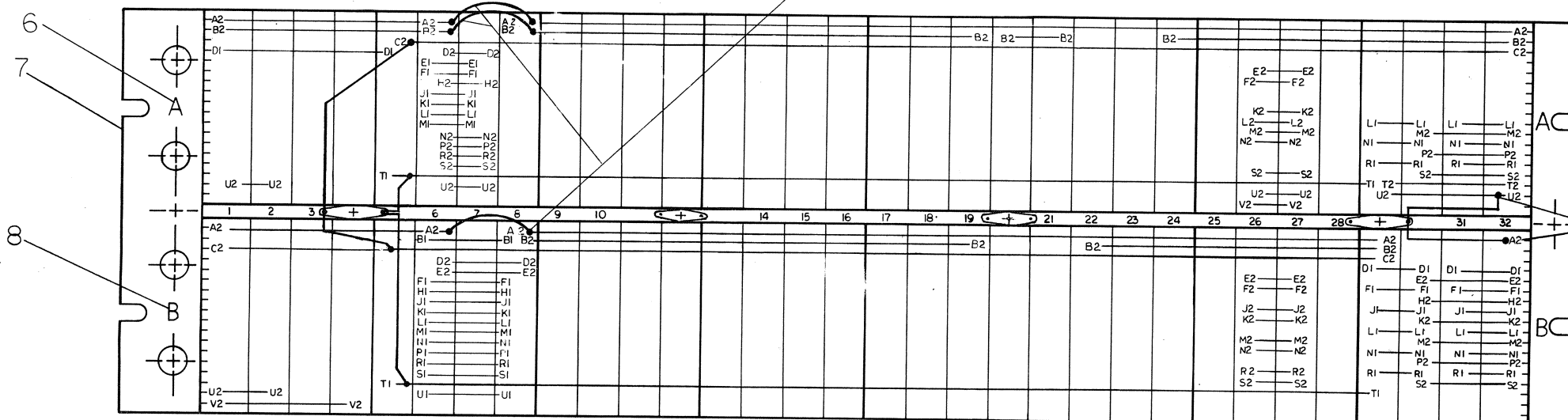
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		G933		G933		G934		G932		M908		M958		M929		M640		M891		M7673		M7672		M892		M895		M7671		M100		M7670		M903		M903		M903		M768		M514		M822					
		2		2		2		2		2		2		2		2		2		2		2		2		2		2		2		2		2		2		2		2		2		2					
		REEL MOTOR		REEL MOTOR						RELAY		**		MASTER		MASTER		CRC		DATA		COMMAND		WRITE		READ		MASTER		SLAVE		FORWARD		BOW 2		BREC		TU-08		BREV		B		OFF					
		CKT		CKT						ENABLE		POSITIVE		INTERFACE		INTERFACE		AND		CHECKER		BUFFER		AND		TIMING		SLAVE		MASTER		BOT		SEL 0		SEL 0		BOT		DEN 5		DEN 5		H5V					
										LOGIC		BUS		CABLE		BUS		WRITE																										-15V					
										COMMON		TERMINATOR				DRIVER		GATING																								COMMON							
										PWR CON																																STOP L							
										LVSL																																OFF LINE							
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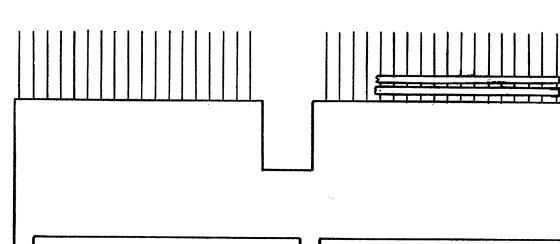
A SIDE		P SIDE		CONNECTIONS	
FROM	TO	FROM	TO	FROM	TO
A29 C2	A31 C2	B29 D2	B31 D2	B06 L2	B08 C2
A29 N2	A31 N2	B29 F2	B31 F2	B06 M2	B08 M2
A29 R2	A31 R2	B29 J2	B31 J2	B06 N2	B08 N2
A26 T2	A27 T2	B29 L2	B31 L2	B06 P2	B08 P2
		B29 N2	B31 N2	B06 R2	B08 R2
		B29 R2	B31 R2	B06 S2	B08 S2
		B06 A1	B08 A1	B06 T2	B08 T2
		B06 C1	B08 C1	B06 U2	B08 U2
		B06 F2	B08 F2		
		B06 K2	B08 K2		

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

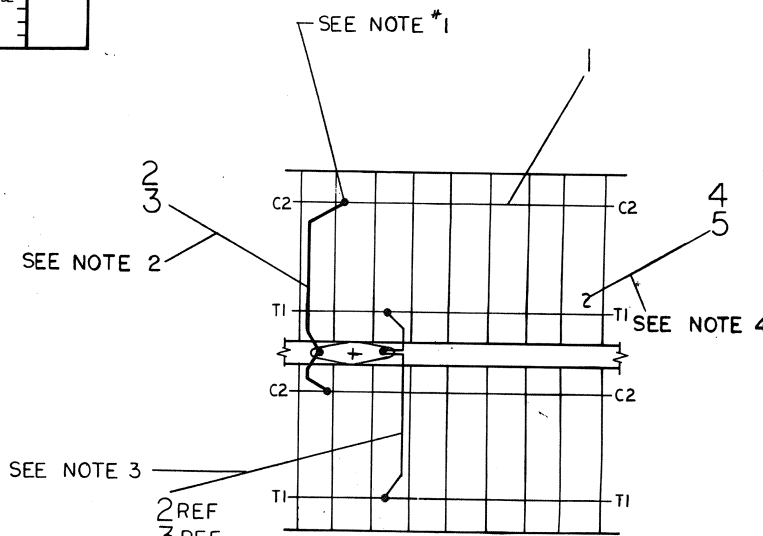
- NOTES:
- CONNECTIONS ON ITEM NUMBER 1 & 2 TO BE LOCATED AND SOLDERED AT MINIMUM PRACTICAL HEIGHT ABOVE BLOCKS.
 - ALL CONNECTOR BLOCKS TO BE GROUNDED TO GROUND LUGS AS SHOWN.
 - JUMPER GROUND BUSSING AS SHOWN, 8 PLACES.
 - USE YELLOW WIRE (ITEM #4) FOR MACHINE WRAPPED AND BLUE WIRE (ITEM #5) FOR HAND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



SECOND LEVEL BUSSING
(HORIZONTAL)
VIEW A-A



SECOND LEVEL BUSSING
(VERTICAL)
VIEW B-B



DETAIL A
3 PLACES
SEE NOTE 2

WIRE TABLE						FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION		PART NO.	ITEM NO.
ITEM NO.	AWG.	COLOR	CONNECTION	CONNECTION	SIGNAL NAME	TUIØ			PARTS LIST			
9	24	RED	A22 B2	A19 B2	-15V	DO NOT SCALE DRAWING			UNLESS OTHERWISE SPECIFIED			
			B22 B2	B19 B2	-15V	DIMENSION IN INCHES			TOLERANCES			
			A20 B2	A16 H2	-15V INT	DECIMALS FRACTIONS ANGLES			± .005 ± .010 ± 0°30'			
9	24	RED	A22 B2	A25 B2	-15V	FINAL SURFACE QUALITY			REMOVE BURRS AND BREAK SHARP CORNERS			
						MATERIAL			NEXT HIGHER ASSY			
						FINISH			SCALE NONE			
									SHEET 1 OF 1			

REV.	CHANGE NO.	REV.	CHANGE NO.
A	1	A	1
B	2	B	2
C	3	C	3
D	4	D	4
E	5	E	5
F	6	F	6
G	7	G	7
H	8	H	8
I	9	I	9
J	10	J	10
K	11	K	11
L	12	L	12
M	13	M	13
N	14	N	14
O	15	O	15
P	16	P	16
Q	17	Q	17
R	18	R	18
S	19	S	19
T	20	T	20
U	21	U	21
V	22	V	22
W	23	W	23
X	24	X	24
Y	25	Y	25
Z	26	Z	26
AA	27	AA	27
AB	28	AB	28
AC	29	AC	29
AD	30	AD	30
AE	31	AE	31
AF	32	AF	32
AG	33	AG	33
AH	34	AH	34
AI	35	AI	35
AJ	36	AJ	36
AK	37	AK	37
AL	38	AL	38
AM	39	AM	39
AN	40	AN	40
AO	41	AO	41
AP	42	AP	42
AQ	43	AQ	43
AR	44	AR	44
AS	45	AS	45
AT	46	AT	46
AU	47	AU	47
AV	48	AV	48
AW	49	AW	49
AX	50	AX	50
AY	51	AY	51
AZ	52	AZ	52
BA	53	BA	53
BB	54	BB	54
BC	55	BC	55
BD	56	BD	56
BE	57	BE	57
BF	58	BF	58
BG	59	BG	59
BH	60	BH	60
BI	61	BI	61
BJ	62	BJ	62
BK	63	BK	63
BL	64	BL	64
BM	65	BM	65
BN	66	BN	66
BO	67	BO	67
BP	68	BP	68
BQ	69	BQ	69
BR	70	BR	70
BS	71	BS	71
BT	72	BT	72
BU	73	BU	73
BV	74	BV	74
BW	75	BW	75
BX	76	BX	76
BY	77	BY	77
BZ	78	BZ	78
CA	79	CA	79
CB	80	CB	80
CC	81	CC	81
CD	82	CD	82
CE	83	CE	83
CF	84	CF	84
CG	85	CG	85
CH	86	CH	86
CI	87	CI	87
CJ	88	CJ	88
CK	89	CK	89
CL	90	CL	90
CM	91	CM	91
CN	92	CN	92
CO	93	CO	93
CP	94	CP	94
CQ	95	CQ	95
CR	96	CR	96
CS	97	CS	97
CT	98	CT	98
CU	99	CU	99
CV	100	CV	100
CW	101	CW	101
CX	102	CX	102
CY	103	CY	103
CZ	104	CZ	104
DA	105	DA	105
DB	106	DB	106
DC	107	DC	107
DD	108	DD	108
DE	109	DE	109
DF	110	DF	110
DG	111	DG	111
DH	112	DH	112
DI	113	DI	113
DJ	114	DJ	114
DK	115	DK	115
DL	116	DL	116
DM	117	DM	117
DN	118	DN	118
DO	119	DO	119
DP	120	DP	120
DQ	121	DQ	121
DR	122	DR	122
DS	123	DS	123
DT	124	DT	124
DU	125	DU	125
DV	126	DV	126
DW	127	DW	127
DX	128	DX	128
DY	129	DY	129
DZ	130	DZ	130
EA	131	EA	131
EB	132	EB	132
EC	133	EC	133
ED	134	ED	134
EE	135	EE	135
EF	136	EF	136
EG	137	EG	137
EH	138	EH	138
EI	139	EI	139
EJ	140	EJ	140
EK	141	EK	141
EL	142	EL	142
EM	143	EM	143
EN	144	EN	144
EO	145	EO	145
EP	146	EP	146
EQ	147	EQ	147
ER	148	ER	148
ES	149	ES	149
ET	150	ET	150
EU	151	EU	151
EV	152	EV	152
EW	153	EW	153
EX	154	EX	154
EY	155	EY	155
EZ	156	EZ	156
FA	157	FA	157
FB	158	FB	158
FC	159	FC	159
FD	160	FD	160
FE	161	FE	161
FF	162	FF	162
FG	163	FG	163
FH	164	FH	164
FI	165	FI	165
FJ	166	FJ	166
FK	167	FK	167
FL	168	FL	168
FM	169	FM	169
FN	170	FN	170
FO	171	FO	171
FP	172	FP	172
FQ	173	FQ	173
FR	174	FR	174
FS	175	FS	175
FT	176	FT	176
FU	177	FU	177
FV	178	FV	178
FW	179	FW	179
FX	180	FX	180
FY	181	FY	181
FZ	182	FZ	182
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HJ	218	HJ	218
HK	219	HK	219
HL	220	HL	22

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