

PDP-12
MAINTENANCE MANUAL
VOLUME IV
MODULE SCHEMATICS

1st Edition, June 1970
2nd Printing (Rev), December, 1970

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FLIP CHIP	FOCAL
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FOREWORD

The *PDP-12 Maintenance Manual*, published in four separate volumes, is a guide for Field Service Engineers or other personnel involved with the care and maintenance of the PDP-12 Computer. The Maintenance Manual is organized as follows:

VOLUME I PRINCIPLES OF OPERATION

This volume contains a description of PDP-12 logic. An overall view of the system is presented in seven chapters entitled Central Processor, Memory, Input/Output, Teletype, LINC Devices, Tape Processor, and Prewired I/O Bus Options. The text describes logical relationships among the various elements of the PDP-12.

VOLUME II INSTALLATION AND MAINTENANCE

The first chapters of this volume describe the unpacking, installation, and preliminary check-out procedures for the PDP-12. The remainder of the volume comprises procedures used in the day-to-day maintenance, adjustment, and repair of the computer.

VOLUME III LOGIC SCHEMATICS

Volume III consists primarily of flow charts and block schematics that describe the PDP-12. The block schematics, lists, and flow charts in Volume III are reduced (11 in. x 17 in.) versions of engineering drawings.

VOLUME IV MODULE SCHEMATICS

The circuit schematics in Volume IV describe all the module types used in the PDP-12, including both the regular production DEC modules and those designed especially for the PDP-12.

CONTENTS

Module Number	Title	Revision
A131	8 Channel Multiplexer	C
A214	2 Differential Preamps	B
A215	1 Buffer Amplifier	A
A225	Deflection Amplifier	A
A404	1 Sample and Hold	—
A615	1 D/A	C
A811	1 A/D Converter	F
B142	Diode Gate	—
B-734B	Variable Power Supply	2
G020	2 Sense Amps	J
G021	2 Sense Amps	J
G221	Memory Selector	D
G228	Inhibit Driver	F
G610	A-Diode Board	B
G611	B-Diode Board	A
G624	Resistor Board	D
G700YA	100Ω Terminator	—
G718	LINC-8 Timing Jumper	A
G780	Cable Connector	—
G783	Cable Connector	—
G793	PDP-8/I Switch Connector	B
G805	Negative Regulator	H
G817	VR12 Power Supply	B
G818	VR12 Power Supply	D
G824	Power Supply Regulator	C
G826	Regulator Control	L
G836	VR14 PS & Regulator Bd	A
G838	Fault Protection Bd	—
G847	Dual Motor Control	A
G848	Motor Drive	F
G850	SCR Driver	P
G851	Tape Head Relay	B
G853	Motion and Selection Circuit	A
G859	Clock Regulator	B
G882	Manchester Reader Writer	D
G888	Manchester Reader Writer (Optional)	—
G912	VR12 Drive Amplifier	—
G916	Power Protection and Switch Filter	—
G917	VR12 Preamp Module	—
G918	Photo Amplifier	B
H719	Power Supply	—
K303	Three Timers	C

CONTENTS (Cont)

Module Number	Title	Revision
K374	Calibrated Timer Control	A
K376	Calibrated Timer Control	A
K378	Calibrated Timer Control	A
M002	15 Loads	—
M040	Solenoid Driver	E
M044	Solenoid Driver	B
M051	Level Converter	—
M101	Bus Data Interface	—
M103	Device Selector	A
M111	Inverter	A
M112	NOR Gate	D
M113	10-2 Input NAND Gates	C
M115	8-3 Input NAND Gates	C
M117	6-4 Input NAND Gates	E
M119	3-8 Input NAND Gates	B
M121	XOR Gates	C
M141	AND/NOR Gates	B
M160	Gate Module	B
M161	Binary to Octal/Decimal Decoder	B
M169	Gating	A
M212	Six-Bit L-R Shift Register	B
M216	Six Flip-Flops	B
M217	Four-Bit Counter and Buffer	—
M221	Main Register	B
M222	PDP-12 Main Register	A
M302	One-Shot Delay	K
M304	Four One Delay	A
M307	Two Integrating One Shots	B
M310	Delay Line	D
M360	Variable Delay	B
M401	Clock	M
M405	Crystal Clock	—
M452	Variable Clock	A
M503	Two Schmitt Triggers and PA	—
M507	Bus Converter	D
M508	Bus Converter	A
M516	Positive Bus Receiver	—
M531	Negative Input Converter	A
M602	Pulse Generator	B
M617	6-4 Input NOR/Buffers	E
M623	Bus Driver	E
M627	Power Amplifier Module	F
M651	Negative Output Converter	B
M660	Positive Level Driver	A

CONTENTS (Cont)

Module Number	Title	Revision
M700	Manual Timing Generator	E
M703	Power Fail	J
M704	Plotter Control	E
M705	Reader Control	J
M706	Teletype [®] Receiver	L
M707	Teletype Transmitter	D
M710	Punch Control	H
M711	Scope Control	C
M715	Reader Clock	K
M719	PDP-12 Clock Input Synchronizer	—
M720	Memory Detection	A
M760	PDP-12 A/D Control	—
M850	Converter and Cable Connector	A
M870	Simple Clock	—
M900	PDP-8/I Console Connector	B
M901	One-to-One Cable	C
M903	Connector (Flexprint [®])	—
M906	Cable Terminator	B
M907	Diode Clamp	—
M908	Ribbon Connector	—
M921	Jumper Board	—
M941	Jumper/Extender	—
R002	Diode	A
R107	Inverter	H
R111	Diode Gate	F
R202	Dual Flip-Flop	F
R303	Integrating One Shot	K
S107	Inverter	D
S111	Diode Gate	D
S181	DC Carry Chain	A
S202	Dual Flip-Flop	D
S603	Pulse Amplifier	E
W005	Clamped Loads	B
W021	Signal Cable Connector	I
W023	Connector	—
W032	Tape Head Cable Connector	—
W040	Solenoid Driver	2
W512	Positive Level Converter	B
W513	Level Amplifier	E
W520	Comparator	C
W603	Positive Level Amplifier	C
W640	Pulse Amplifier	L

[®]Teletype is the registered trademark of Teletype Corporation.

[®]Flexprint is the registered trademark of Sanders Associates.

CONTENTS (Cont)

Module Number	Title	Revision
W681	Scope Intensifier	H
W682	Intensity Amplifier	E
W701	Input Network	A
W990	Blank Module	A
783	Power Supply	C
828	Power Receptacle	—
854	Power Control	A
8114	Console Lite	—
8124	Relays and Speaker Driver	—
*1203185-2 (C-13495)	Precision Power Supply (Deltron)	C
†1203185-2	Precision Power Supply (Power-Mate)	—

POWER SUPPLIES

Module Number	Title	Revision
B-734B	Variable Power Supply	2
G-817	VR12 Power Supply	B
G-818	VR12 Power Supply	D
H719	Power Supply	—
783	Power Supply	C
1203185-2	Precision Power Supply (Deltron)	—
1203185-2	Precision Power Supply (Power-Mate)	—

*Used by permission of Deltron Inc., Philadelphia, Pennsylvania

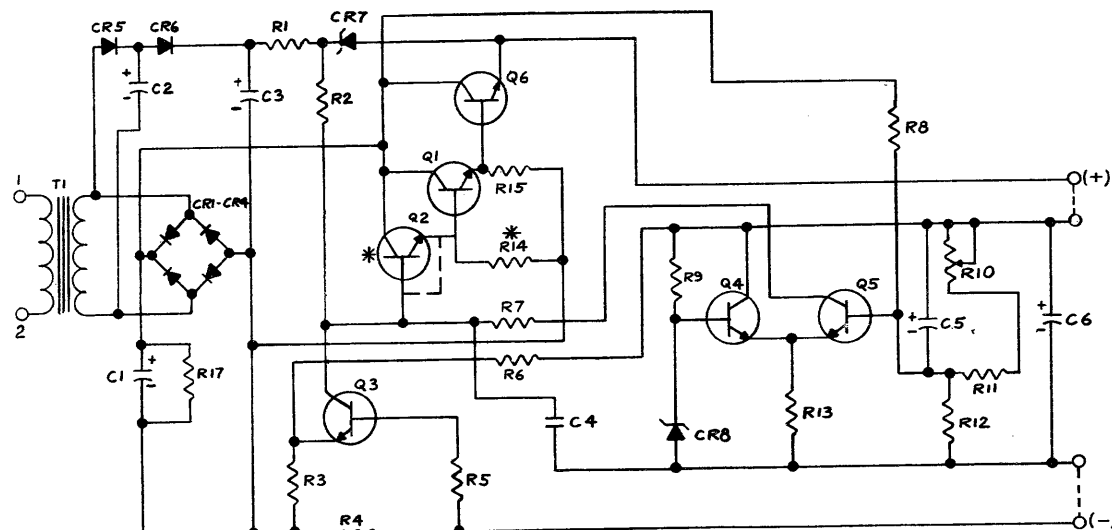
†Used by permission of Power-Mate Corp., Hackensack, New Jersey

REVISIONS

APPD

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DIGITAL PART NUMBER
12-03185-02 REV F



* NOTE : JUMPER USED ONLY WHEN Q2 AND R14 ARE NOT USED. SEE PARTS LIST

DRAWN BY

POWER/MATE CORP.
HACKENSACK, NEW JERSEY

APPD BY

SCHEMATIC DIAGRAM
MODULE POWER SUPPLY

12-12-69

CODE IDENT NO

23934

USED ON

SCALE

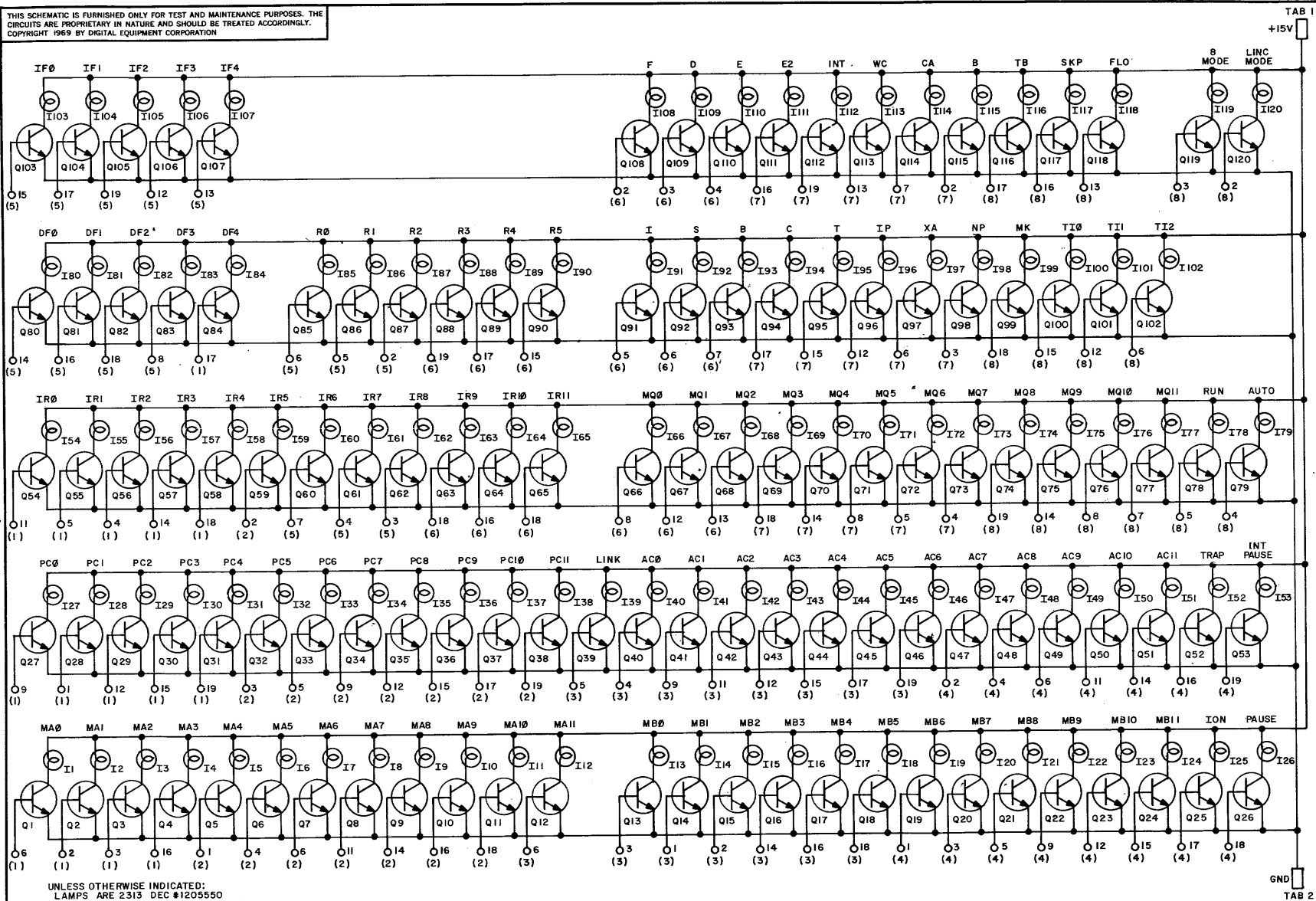
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UNLESS OTHERWISE INDICATED:
LAMPS ARE 2313 DEC #1205550
TRANSISTORS ARE DEC2 #1505650
NUMBERS IN PARENTHESIS () DESIGNATE FLEXPRINT CONNECTOR NO.

REVISIONS
CHK CHG NO. REV.

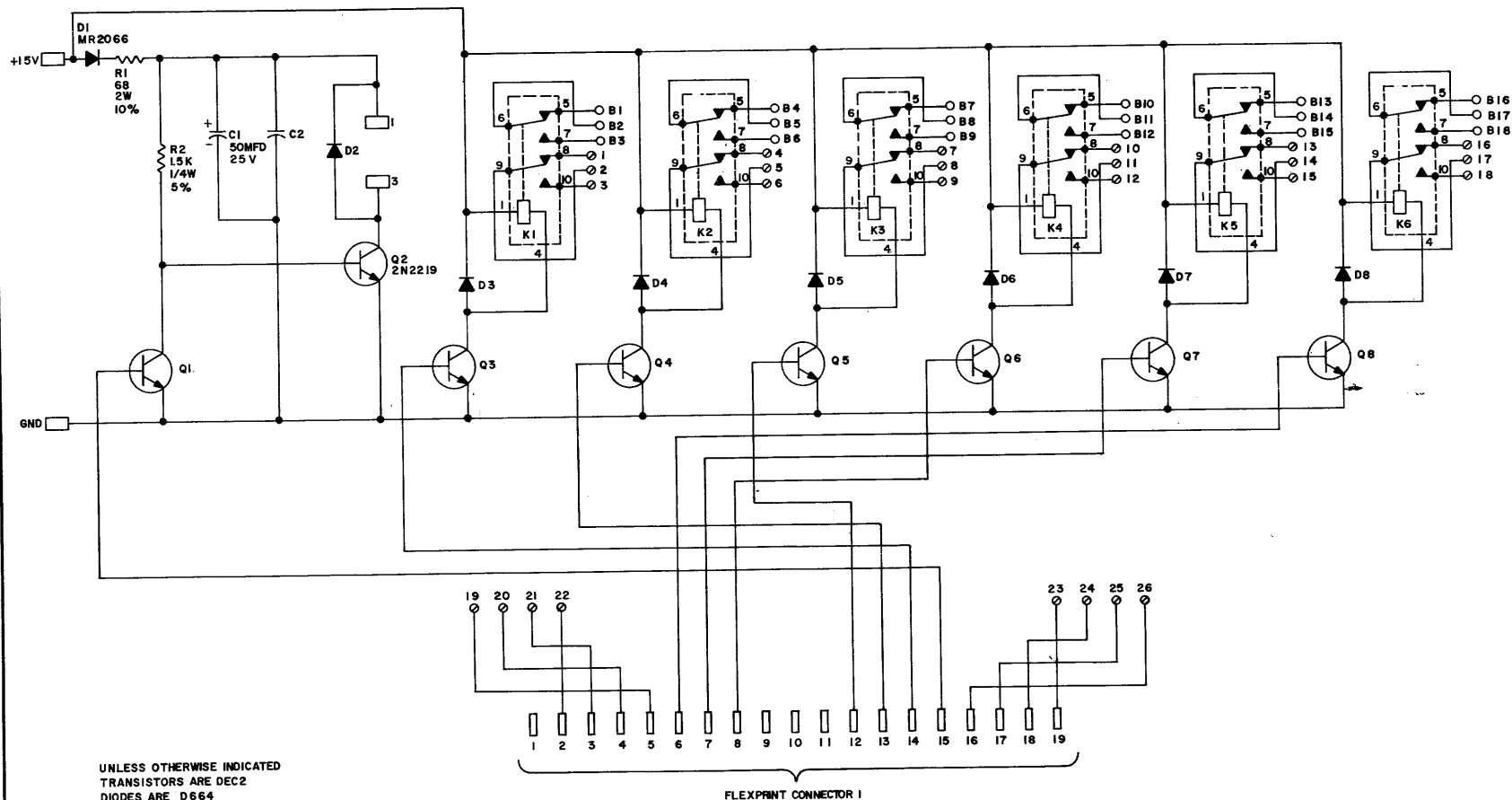
DRN. *m. Sellen*
DATE *9-25-69*
CHK'D *H. M. Sellen*
DATE *9/25/69*
DES. *S. Sellen*
DATE *9/25/69*
PROD. *S. Sellen*
DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC 2	2N3009		

digital
EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE PDP 12
INDICATOR PANEL 5408114
SIZE CODE NUMBER
C CS 5408114-0-1
PRINTED CIRCUIT REV. B

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REVISIONS CHK ENG NO REV _____ _____ _____		DEC FORM NO. DRC 102		DRN <i>W. H. H.</i> DATE 5-2-69	CHKD <i>W. H. H.</i> DATE 4-3-69	ENG <i>W. H. H.</i> DATE 5-2-69	PROD. DATE _____	TRANSISTOR & DIODE CONVERSION CHART <table border="1"> <tr> <th>DEC</th> <th>EIA</th> <th>DEC</th> <th>EIA</th> </tr> <tr> <td>MR2066</td> <td>1N4003</td> <td></td> <td></td> </tr> <tr> <td>D664</td> <td>1N3606</td> <td></td> <td></td> </tr> <tr> <td>2N2219</td> <td>SAME</td> <td></td> <td></td> </tr> <tr> <td>DEC2</td> <td>2N3009</td> <td></td> <td></td> </tr> </table>				DEC	EIA	DEC	EIA	MR2066	1N4003			D664	1N3606			2N2219	SAME			DEC2	2N3009			digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		TITLE RELAY BOARD 5408124 NUMBER 5408124-0-1 PRINTED CIRCUIT REV. A		SIZE C CS	CODE CS	REV. _____
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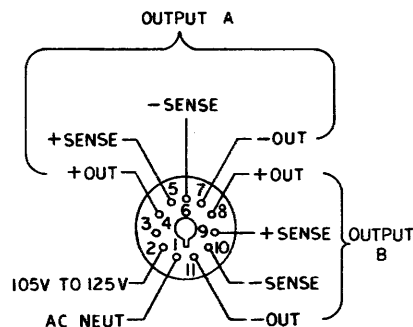
REV.
NUMBER
5408124-0-1
SIZE CODE
C CS

NOTE:

MODEL 6575-1 USES TRANSFORMER
TAP T101-5

MODEL 6575-2 USES TRANSFORMER
TAP T101-4

MODEL 6575-3 USES TRANSFORMER
TAP T101-3



MODEL	OUTPUT A	OUTPUT B	DEC SPEC*	NOTES:
6575-1	10V, 1.5A	15V, 1.5A	12-03185-1	1. RESISTOR WATTAGE .5 WATT UNLESS OTHERWISE INDICATED.
6575-2	15V, 1.5A	15V, 1.5A	12-03185-2	2. ALL POTENTIOMETERS ARE WIREWOUND.
6575-3	20V, 1.5A	15V, 1.5A	12-03185-3	3. RESISTORS ABOVE 2 WATTS ARE WIREWOUND.

MODEL	R11	R12	R13
6575-1	1.5K	2.7K	560Ω
6575-2	2.7K	2.7K	1.2K
6575-3	3.3K	2.7K	2.2K

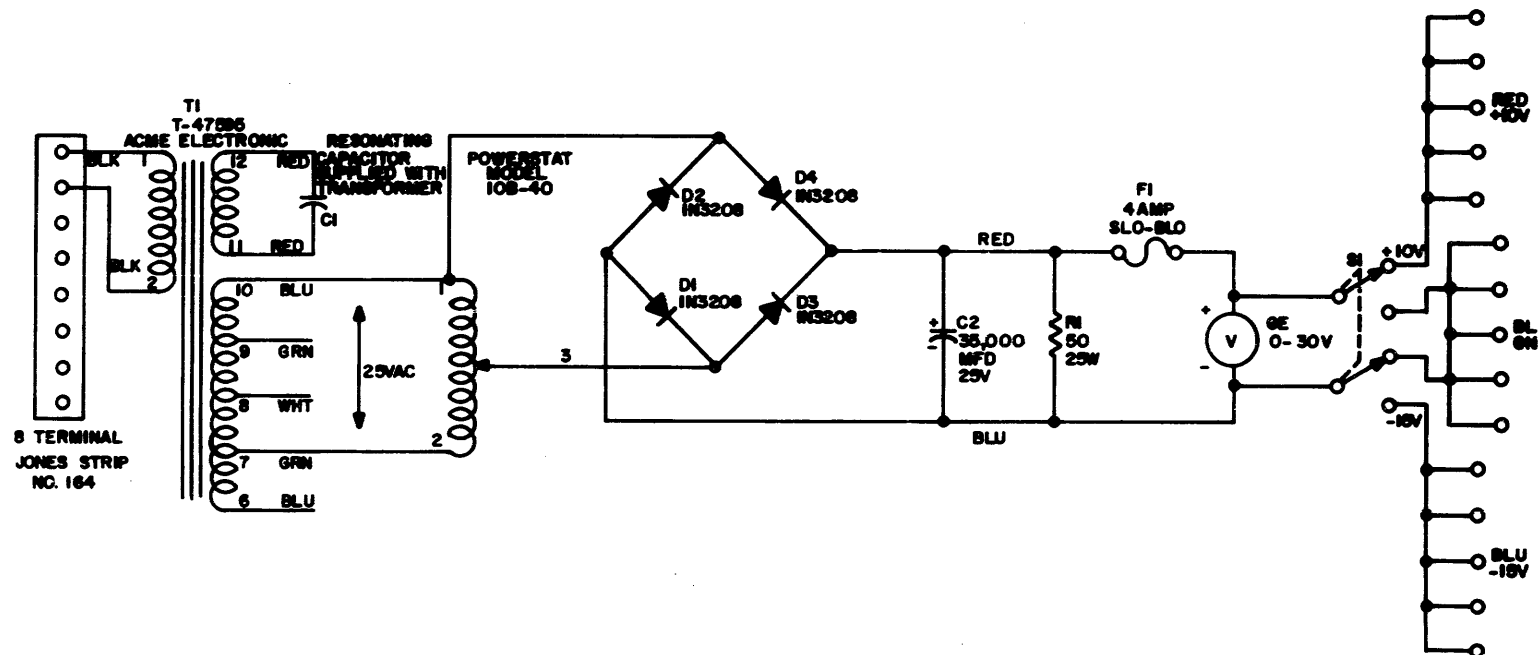
- RESISTOR TOLERANCE: COMP. $\pm 10\%$; UNLESS OTHERWISE INDICATED.
- IF REMOTE SENSING IS NOT USED CONNECT 4 TO 5, 6 TO 7, 8 TO 9, & 10 TO 11.
- S.I.T. - INDICATES SELECT IN TEST.

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DIMENSIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE INDICATED		DECIMAL DIMENSIONS	
BASIC DIMENSIONS	FRACTIONAL DIMENSIONS	UP TO 1/8"	1/8" TO 1/4"
UP TO 1/8"	1/8"	1/8"	1/8"
1/8" TO 1/4"	1/4"	1/4"	1/4"
1/4" TO 1/2"	1/2"	1/2"	1/2"
1/2" TO 1"	1"	1"	1"
1" TO 2"	2"	2"	2"
2" TO 4"	4"	4"	4"
4" TO 6"	6"	6"	6"
6" TO 12"	12"	12"	12"
12" TO 24"	24"	24"	24"
24" TO 48"	48"	48"	48"
48" TO 96"	96"	96"	96"
96" TO 192"	192"	192"	192"
192" TO 384"	384"	384"	384"
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46422751473201760331464704" TO 92845502946403520662929408"	92845502946403520662929408"	92845502946403520662929408"	92845502946403520662929408"
92845502946403520662929408" TO 1856910058928070413258578176"	1856910058928070413258578176"	1856910058928070413258578176"	1856910058928070413258578176"
1856910058928070413258578176" TO 3713820117856140826517156352"	3713820117856140826517156352"	3713820117856140826517156352"	3713820117856140826517156352"
3713820117856140826517156352" TO 7427640235712281653034312704"	7427640235712281653034312704"	7427640235712281653034312704"	7427640235712281653034312704"
7427640235712281653034312704" TO 1485528047142456310606862400"	1485528047142456310606862400"	1485528047142456310606862400"	1485528047142456310606862400"
1485528047142456310606862400" TO 2971056094284912621213724800"	2971056094284912621213724800"	2971056094284912621213724800"	2971056094284912621213724800"
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5942112188569825242427449600" TO 11884224377139650484854899200"	11884224377139650484854899200"	11884224377139650484854899200"	11884224377139650484854899200"
11884224377139650484854899200" TO 23768448754279300969709798400"	23768448754279300969709798400"	23768448754279300969709798400"	23768448754279300969709798400"
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CS-B-734B-2

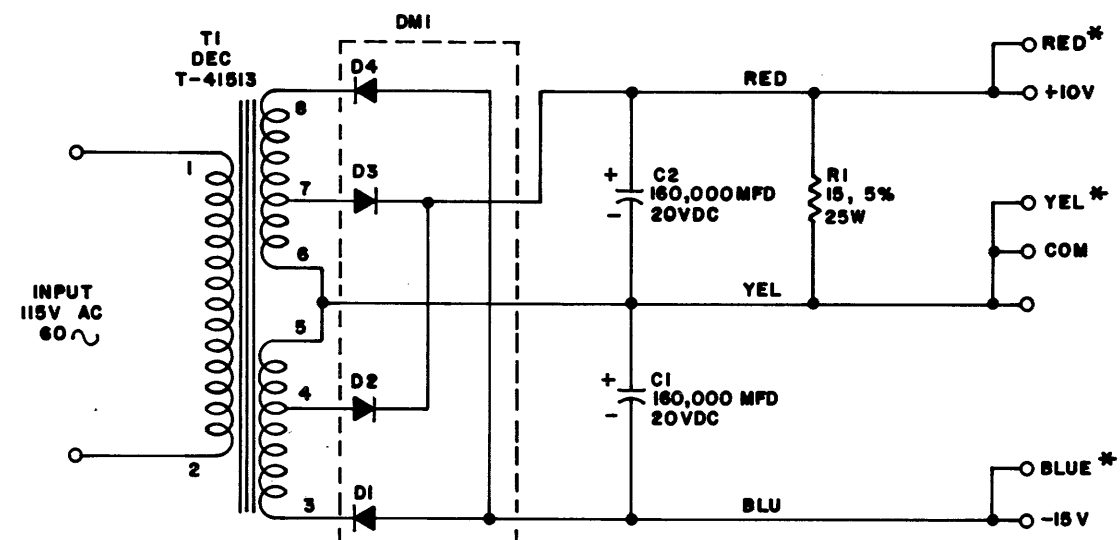


NOTE:
OUTPUT IS CONNECTED THROUGH
HEYMAN TAB TERMINALS

	REV. A	ECO. NO.	DRAFTSMAN H. W. PORTER DATE 1-23-64	CHECKER A. MARTIANI DATE 1-23-64	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	CODE DWG. NO. CS B-734B	RE 2
	REV. B	ENG.	ENGINEER D. A. WHITE DATE 1-24-64	PRODUCTION 1 DATE	TITLE VARIABLE POWER SUPPLY 734B		

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REV	C	NUMBER	783-0-1	CS	B	SIZE	3215
-----	---	--------	---------	----	---	------	------



NOTE:
 IN ORDER TO KEEP OUTPUT VOLTAGE WITHIN THE FOLLOWING LIMITS:
 +10V: +9.5 TO +11V
 -15V: -14.5 TO -16V
 THE LOADING SHOULD BE WITHIN THE FOLLOWING LIMITS:

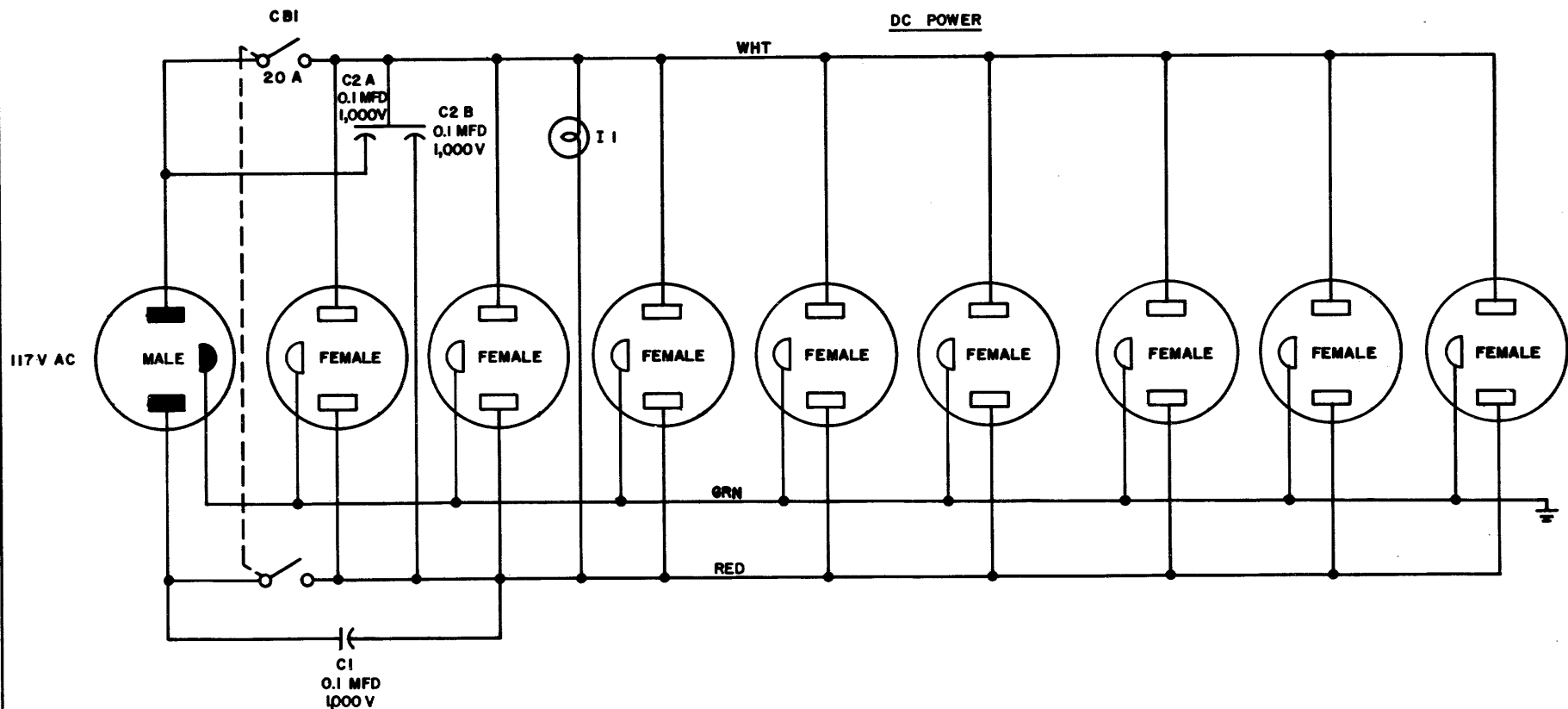
BOTH SIDES LOADED	+10V 0 TO 7.0 AMPS
	-15V 1.0 TO 8.0 AMPS
ONE SIDE LOADED	+10V 0 TO 7.5 AMPS
	-15V 1.0 TO 8.5 AMPS

SUM OF THE OUTPUT CURRENTS ARE LIMITED BY THE EQUATION: $8I_{10} + 6I_{15} \leq 53$

* HEYMAN MFG. CO. TAB TERMINALS

REVISIONS CHK CHG NO REV 4740 2 REVISED 6035 C		DRN. H.W.PORTE DATE 11-20-63 CHK'D A.VARTANIAN DATE 11-27-63 ENG. R.DOANE DATE 11-27-63 PROD. DATE	TRANSISTOR & DIODE CONVERSION CHART <table border="1"> <tr> <th>DEC</th> <th>EIA</th> <th>DEC</th> <th>EIA</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>	DEC	EIA	DEC	EIA																													digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE POWER SUPPLY 783 SIZE B CODE CS NUMBER 783-0-1 REV. C PRINTED CIRCUIT REV.
DEC	EIA	DEC	EIA																																		

CS-828-1



NOTE:
CBI IS A DPST HEINEMANN ELEC. CO. XAM33 CURVE 4
I 1 IS A NEON PILOT LIGHT-NE-2D
ALL SOCKETS AND PLUG ARE SHOWN IN REAR VIEW

3512-1

CH NO APP

CHANGE

EXPER

PRODUCTION

OTHER

DRAWN
J.S. CARO 2-11-63

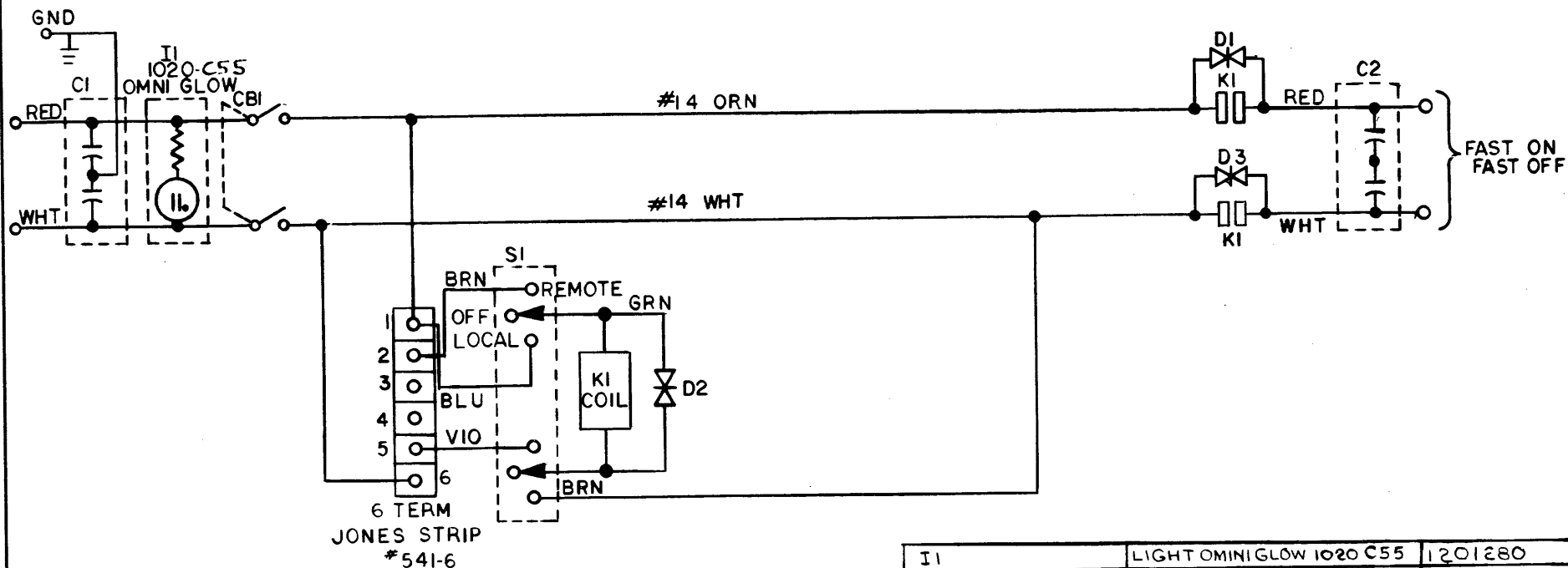
CHECKED
[Signature]
ENGINEER
[Signature]

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

CS-828-1

POWER RECEPTACLE 828

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I1	LIGHT OMNI GLOW 1020 C55	1201280
D1, D2, D3	DIODE THY 6RS20SP4B4	1100106
CBI	CIR BREAKER 190-220-104	1201218
K1	RELAY EM-4, 115V	1205768
SI	TOGGLE SW CH 7563KE	1205964
C1 & C2	CAP. 2X .1MFD 1KVDC	1000034
PARTS LIST		A-PL-854-0-0
REF DESIGNATION	DESCRIPTION	PART NO

PARTS LIST

REVISIONS	CHG NO	REV
1	00002	A

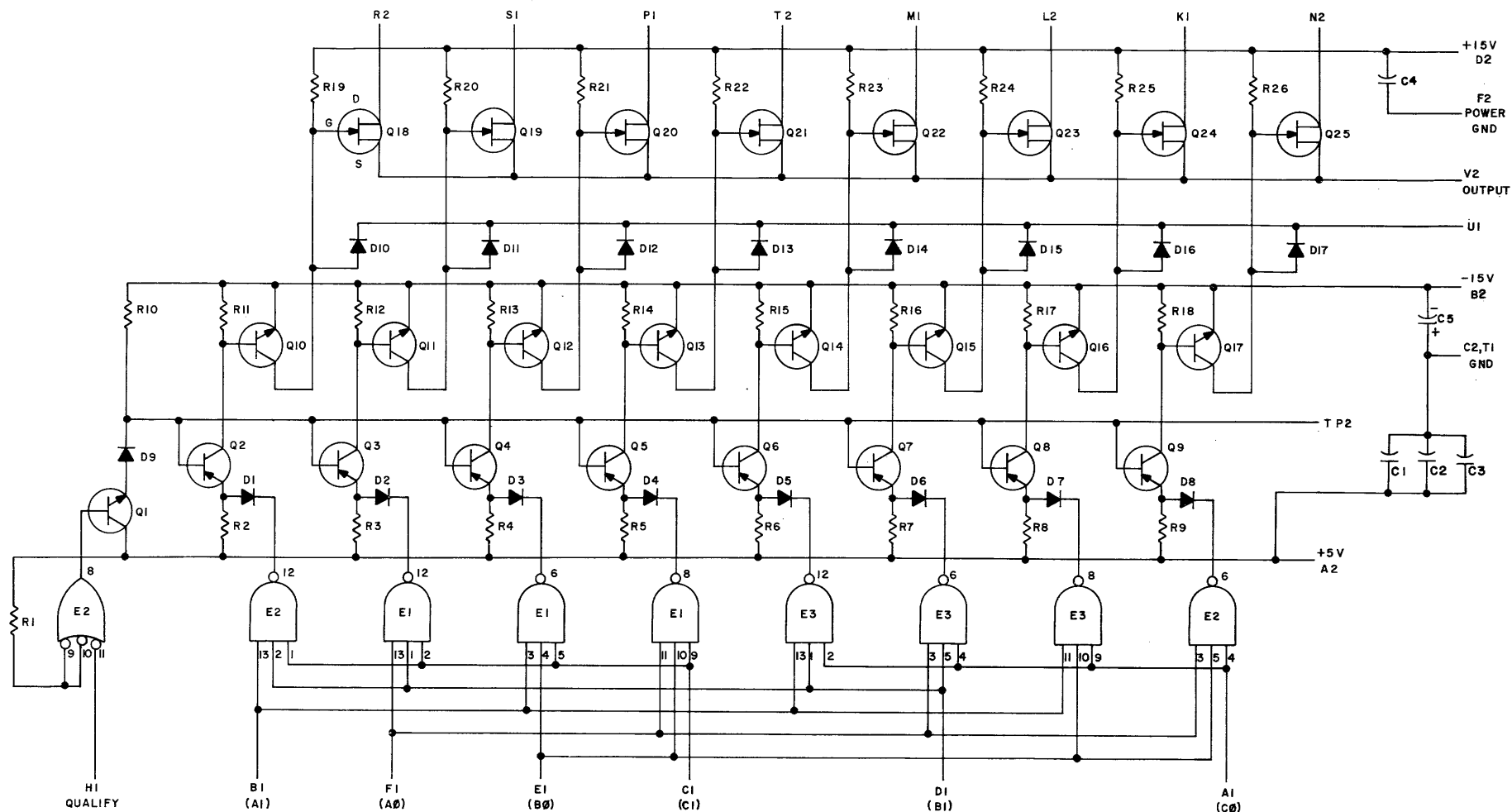
DRN.	P. L. B. L. L.	DATE	10-21-68
CHKD.	W. L. L. L.	DATE	11/1/68
ENG.	G. W. G. E. R. E. L. D. S.	DATE	11/13/68
PROD.	G. W. G. E. R. E. L. D. S.	DATE	11/13/68

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE POWER CONTROL			
854			
SIZE	CODE	NUMBER	REV.
B	CS	854-0-1	A
PRINTED CIRCUIT REV.			

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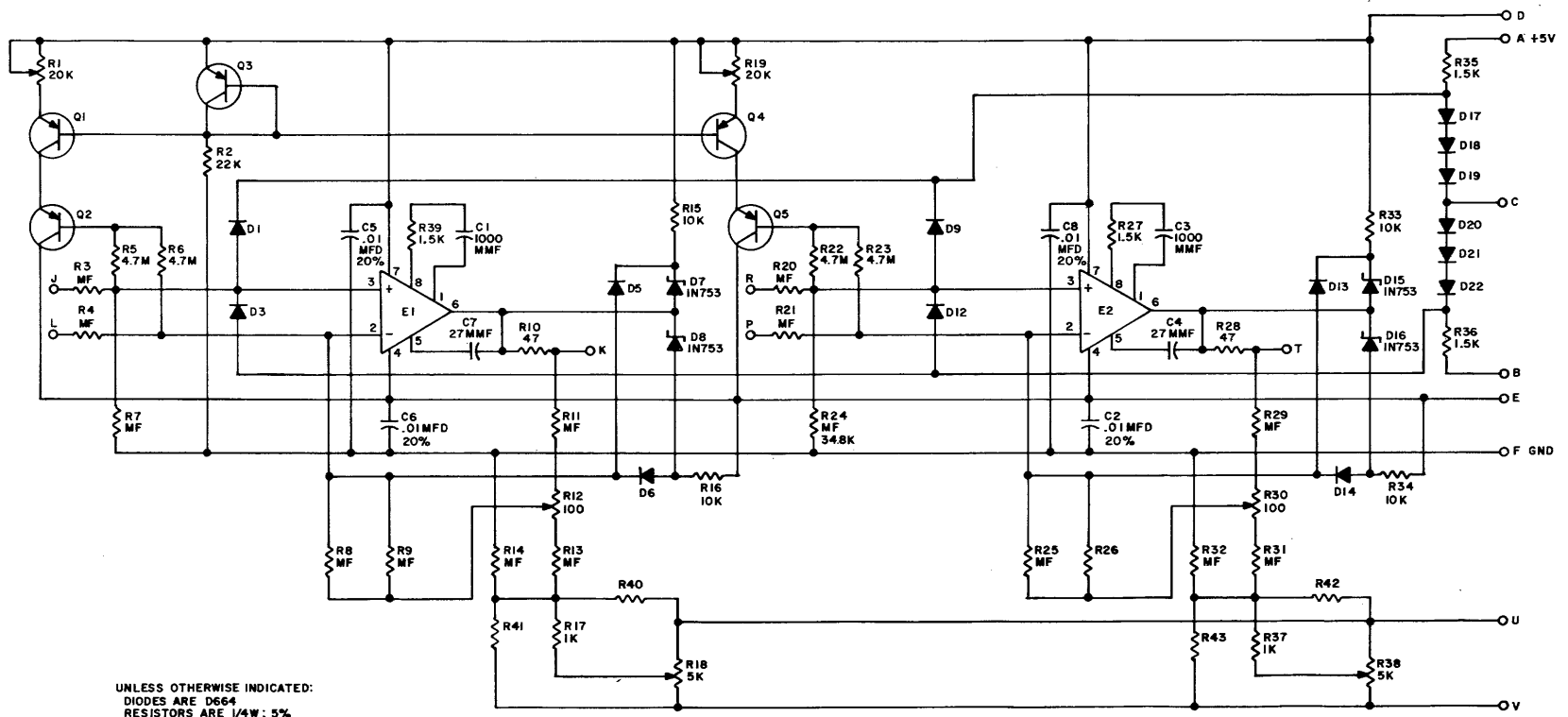


NOTE:
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V

E1, E2, E3	INTEGRATED CKT DEC7410N	1905576
Q18-Q25	TRANSISTOR 2N5245 OR TIS 88	1509681
Q2-Q9	TRANSISTOR DEC6534B	1503409-01
Q1, Q10-Q17	TRANSISTOR DEC3009B-S	1503100
R19-R26	RES 10K 1/4W 5% CC	1300479
R11-R18	RES 33K 1/4W 5% CC	1300439
R2-R10	RES 1.5K 1/4W 5% CC	1300391
R1	RES 33K 1/4W 10%	1300510
D1-D17	DIODE D664	1100114
C1-C4	CAP .01 MFD 100V 20% DISC	1001610
C5	CAP 6.8 MFD 35V 20% STANT	1000067
PARTS LIST		A-PL-A131-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO

REVISIONS CHK CHG NO. REV 00001 B 00002 C	DRN DATE 2-10-69 CHKD DATE 3-10-69 ENG DATE 4/8/69 PROD	TRANSISTOR & DIODE CONVERSION CHART <table border="1"> <tr> <th>DEC</th> <th>EIA</th> </tr> <tr> <td>D664</td> <td>1N3606</td> </tr> <tr> <td>DEC3009B</td> <td>2N3009</td> </tr> <tr> <td>DEC6534B</td> <td>MPS6534</td> </tr> <tr> <td>2N5245</td> <td>NONE</td> </tr> </table>	DEC	EIA	D664	1N3606	DEC3009B	2N3009	DEC6534B	MPS6534	2N5245	NONE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE MULTIPLEX A131 SIZE C CODE CS NUMBER A131-0-1 REV. C
DEC	EIA													
D664	1N3606													
DEC3009B	2N3009													
DEC6534B	MPS6534													
2N5245	NONE													

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UNLESS OTHERWISE INDICATED:
DIODES ARE D664
RESISTORS ARE 1/4W, 5%
MF RESISTORS ARE 1/8W, 1%; 100MFP
TRANSISTORS ARE 2N4250
R1, R19 ARE ALLEN BRADLEY ZV-2032
POTS ARE 76PR SERIES
E1, E2 ARE MC1709
CAPACITORS ARE 100V, 5%

O → +5	A214-YF	1.2K	68.1K	68.1K	21.5K	21.5K	1M (CC)	2.74K	422	51.1	NONE
O → +10	A214-YE	1.2K	68.1K	68.1K	12.1K	12.1K	274K	2.61K	422	75	NONE
O → -2	A214-YD	NONE	34.8K	34.8K	34.8K	34.8K	4.7M	1.96K	348	90.9	1.2K
±10	A214-YC	NONE	64K	64K	5.48K	3.48K	39K	2.61K	261	38.3	NONE
±5	A214-YB	NONE	68.1K	68.1K	12.1K	12.1K	365K	2.61K	422	90.9	NONE
O → +2	A214-YA	1.2K	34.8K	34.8K	34.8K	34.8K	4.7M	1.96K	348	90.9	NONE
±1	A214	NONE	34.8K	34.8K	34.8K	34.8K	4.7M	1.96K	422	38.3	NONE
INPUT VOLTAGE RANGE		R41	R3	R4	R7	R8	R9	R11	R13	R14	R40
VARIATION		R43	R20	R21	R24	R25	R26	R29	R31	R32	R42

REVISIONS	CHK	CHK NO.	REV.	A	B
1		00001			
2		00002			

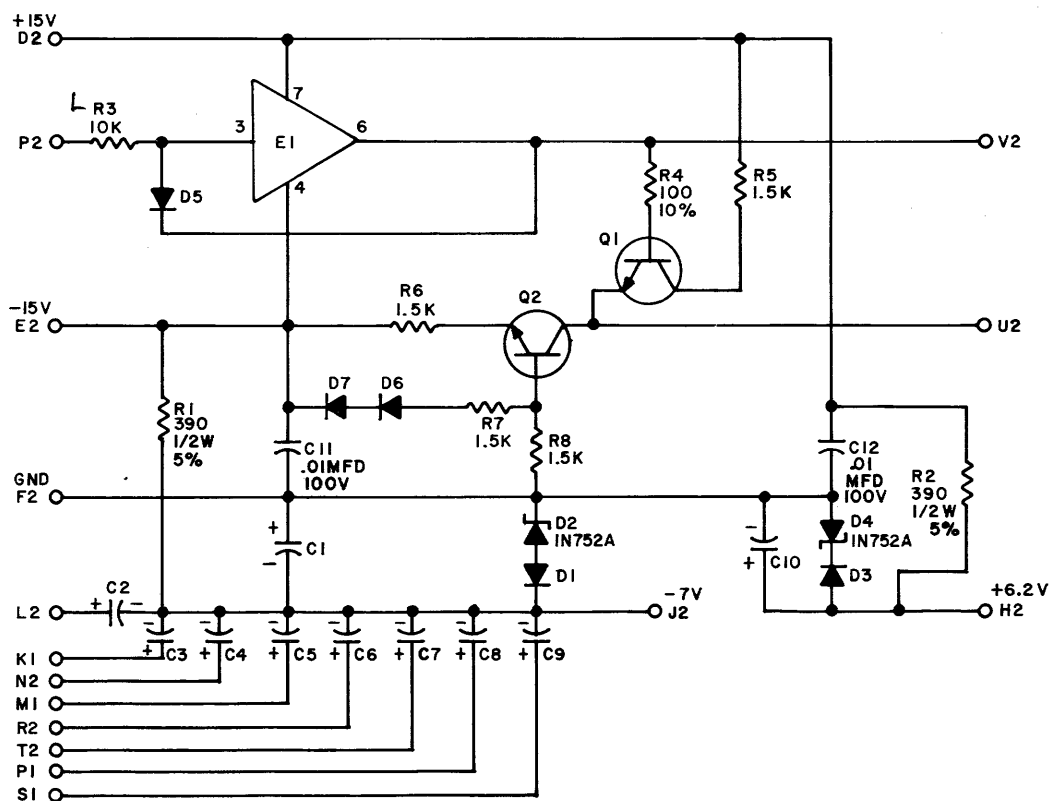
DATE 2-28-69
DATE 3-5-69
DATE 4-13-69
DATE
DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D664	1N3606		
IN753	SAME		
2N4250	NONE		

digital
EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE			
2 ANALOG AMPLIFIERS A214			
SIZE	CODE	NUMBER	REV.
C	CS	A214-0-1	B
PRINTED CIRCUIT REV.			
B			

SIZE	CODE	B CS	NUMBER	A215-0-1	REV.	A
------	------	------	--------	----------	------	---

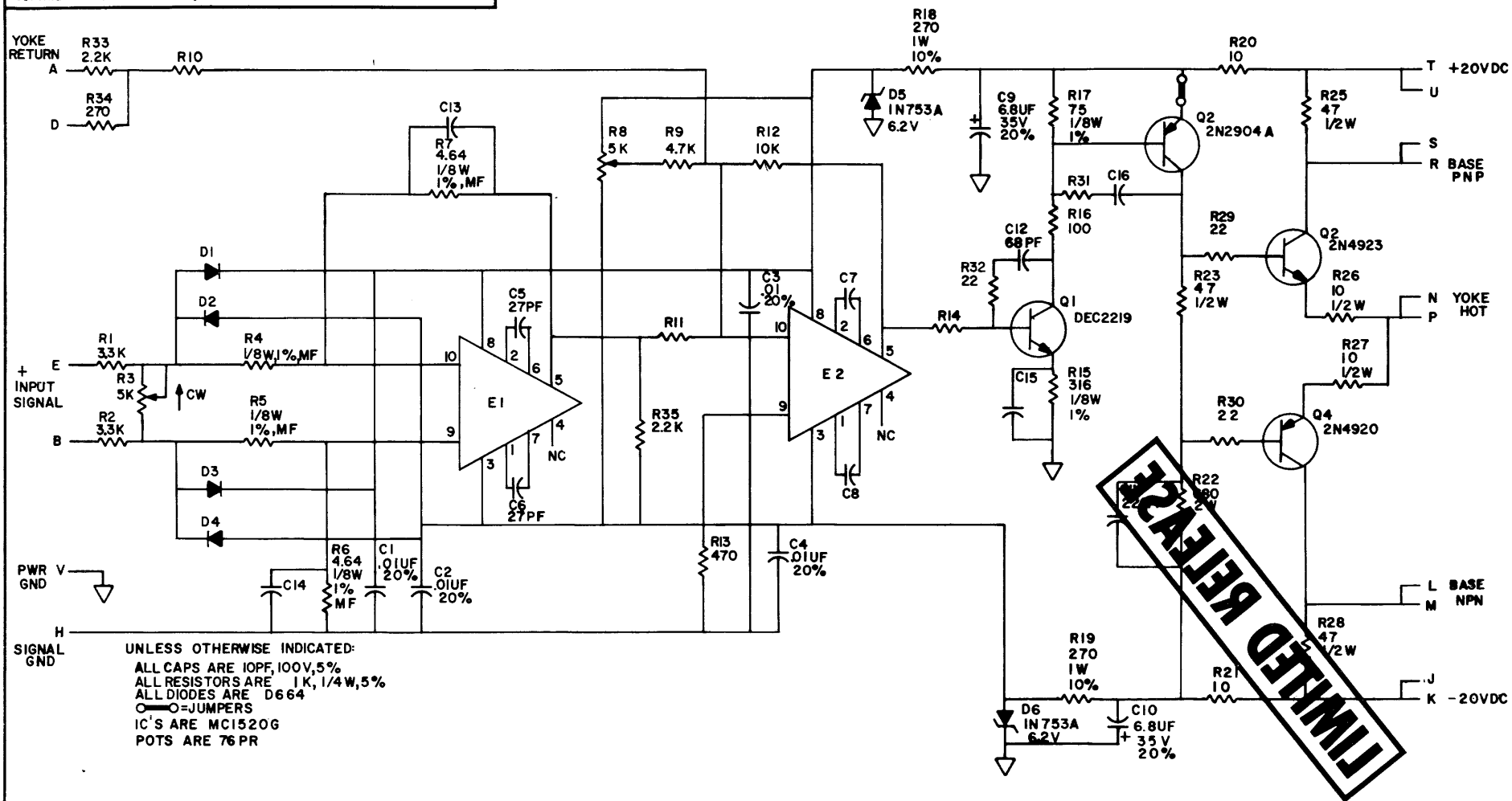


UNLESS OTHERWISE INDICATED:
CAPACITORS ARE 1MFD;35V;10%
DIODES ARE D664
RESISTORS ARE 1/4W;5%
TRANSISTORS ARE DEC2219
EI IS LM302

[illegible]

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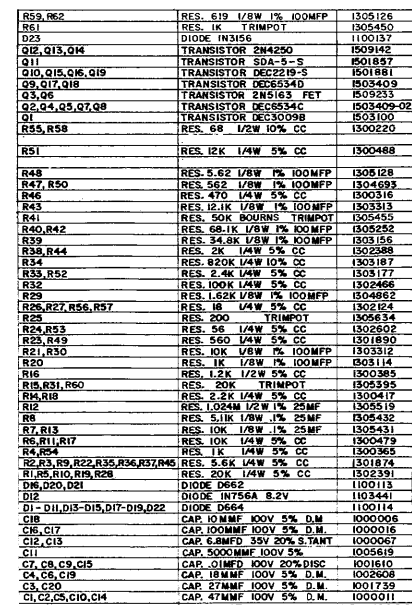
REV. A
NUMBER A225-0-1
SIZE B
CODE CS



REVISIONS		DRN	DATE	TRANSISTOR & DIODE CONVERSION CHART				TITLE	
CHK	CHG NO	CHKD	DATE	DEC	EIA	DEC	EIA	DEFLECTION AMPLIFIER	
		ENG	DATE	DEC2219	2N2219			A225	
		PROD.	DATE	2N4920	SAME			NUMBER	
			DATE	D664	1N3606			A225-0-1	
			DATE	1N753	SAME			REV	
								A	

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

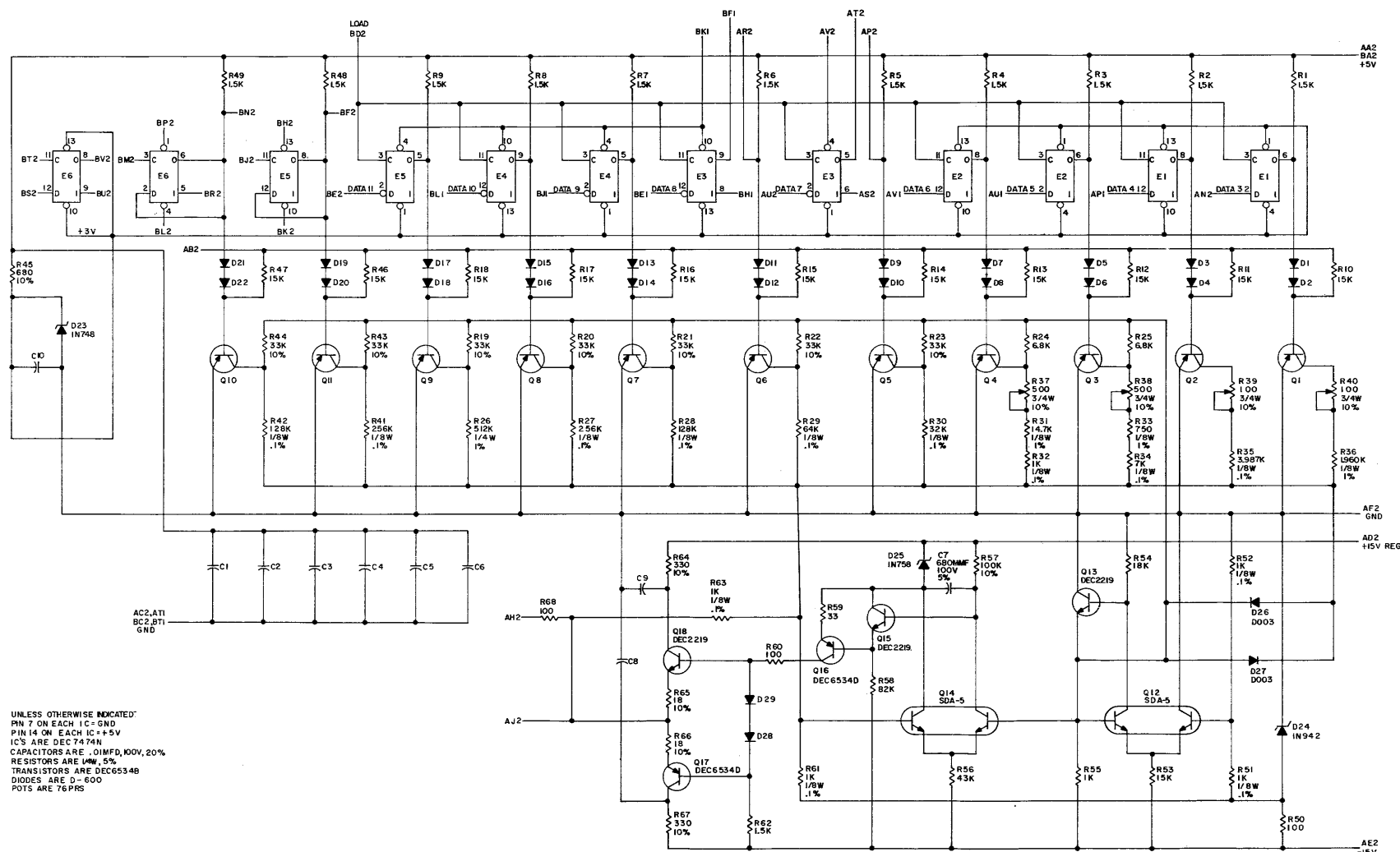
PRINTED CIRCUIT REV. B



REFERENCE DESIGNATION		PARTS LIST		A-PL-A404-0-0	
MODE CONVERSION CHART		PARTS LIST		PART NO	
DEC	EA	TITLE			
EDM-S	EA8E	SAMPLE AND HOLD A404			
EDM-2	EA8E	SIZE			
EDM-3	EA8E	CODE			
EDM-4	EA8E	NUMBER			
EDM-5	EA8E	REV			
EDM-6	EA8E	CS			
EDM-7	EA8E	A404-0-1			
EDM-8	EA8E	PRINTED CIRCUIT REV			
EDM-9	EA8E	A			

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1-0-5194 CS 0



UNLESS OTHERWISE INDICATED:
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V
IC'S ARE DEC 7474N
CAPACITORS ARE .01MFD, 100V, 20%
RESISTORS ARE 1/4W, 5%
TRANSISTORS ARE DEC 6534B
DIODES ARE D-500
POTS ARE 76PRS

REVISION	DATE	BY	CHKD
1	05/01/69		

DATE	BY	CHKD
05/01/69		

DATE	BY	CHKD
05/01/69		

DATE	BY	CHKD
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05/01/69		

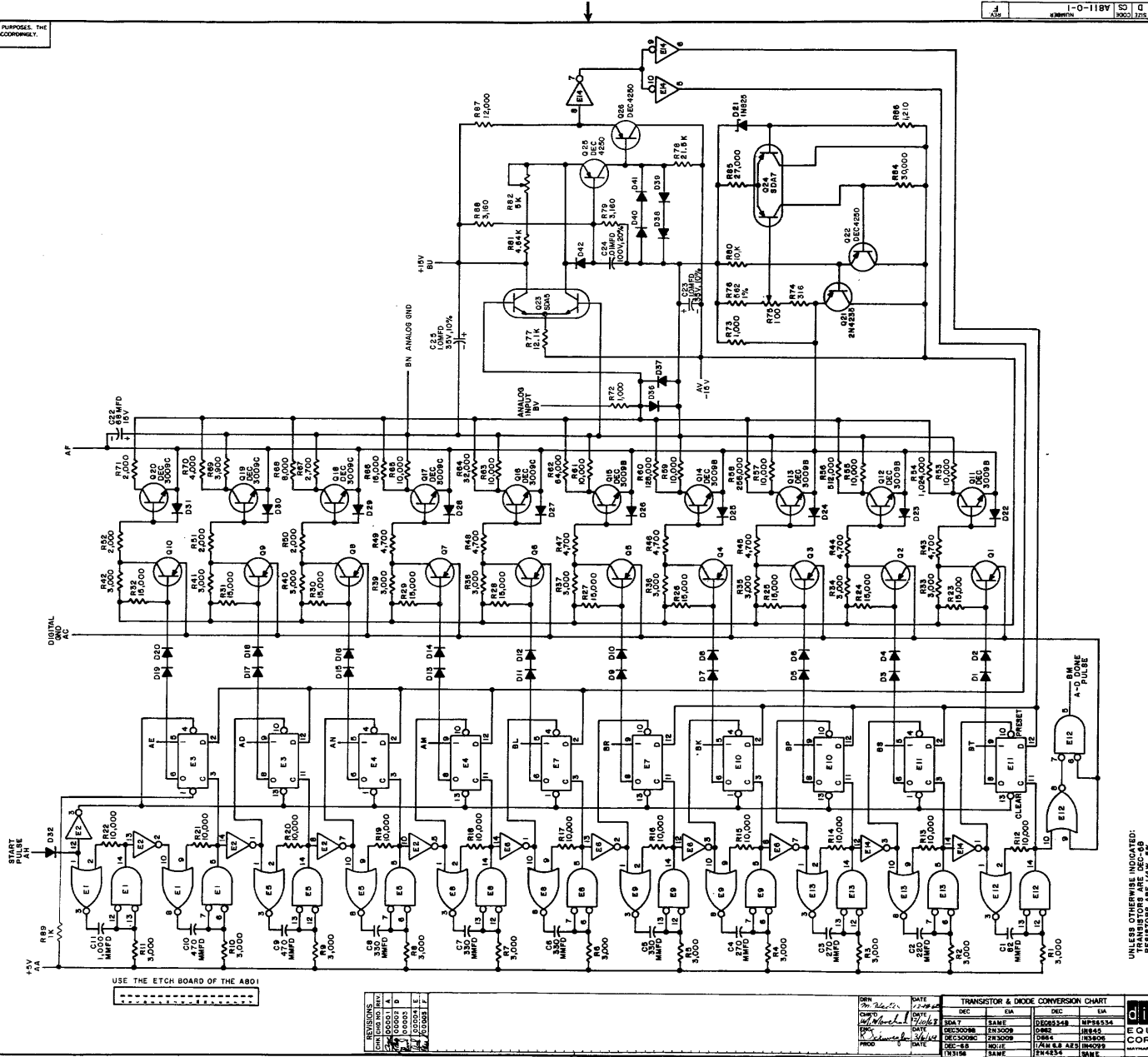
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05/01/69		

DATE	BY	CHKD
05/01/69		

DATE	BY	CHKD
05/01/69		

DATE	BY	CHKD
05/01/69		

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UNLESS OTHERWISE INDICATED:
TRANSISTORS ARE DEC-28
RESISTORS ARE 1/4W, 5%
DIODES ARE D154

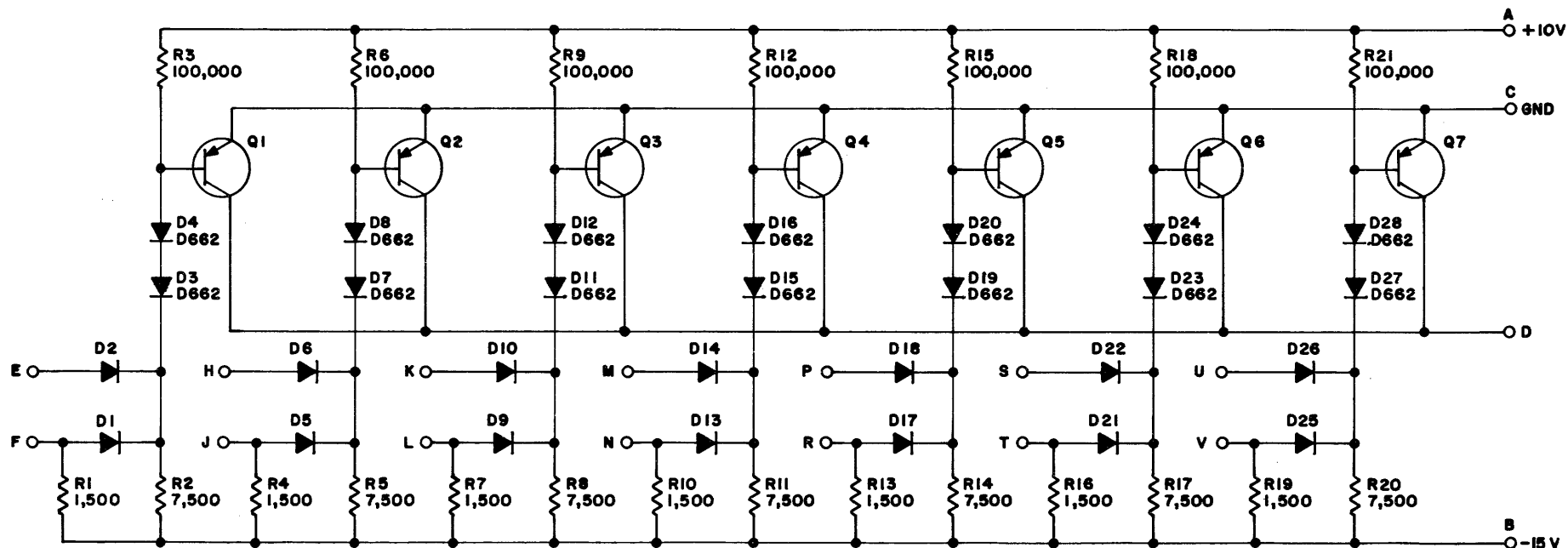
PIN 7 = GND OR E3, E4, E7, E10 & E11
PIN 8 = +5V OR E3, E4, E7, E10 & E11
PIN 9 = +5V OR E3, E4, E7, E10 & E11
PIN 10 = +5V OR E3, E4, E7, E10 & E11
PIN 11 = +5V OR E3, E4, E7, E10 & E11
PIN 12 = +5V OR E3, E4, E7, E10 & E11
PIN 13 = +5V OR E3, E4, E7, E10 & E11
PIN 14 = +5V OR E3, E4, E7, E10 & E11
PIN 15 = +5V OR E3, E4, E7, E10 & E11
PIN 16 = +5V OR E3, E4, E7, E10 & E11

R55, R56, R70, R71, R72 ARE VISHAY M.F. 0.1% SPM
R50, R51, R52, R53, R54, R55, R56 ARE M.F./1% 100PPM 1%
R70, R71, R72, R73, R74, R75, R76 ARE M.F./1% 100PPM 1%
R77, R78, R79, R80, R81, R82, R83, R84, R85, R86, R87, R88, R89, R90, R91, R92, R93, R94, R95, R96, R97, R98, R99, R100 ARE M.F./1% 100PPM 1%
R78 IS A MILLIN TRIMPTYPE TYPE 62PR DEC PART # 1509-00-04

PARTS LIST IS A-PL-AB11-0-0

REV. NUMBER B142-0-1

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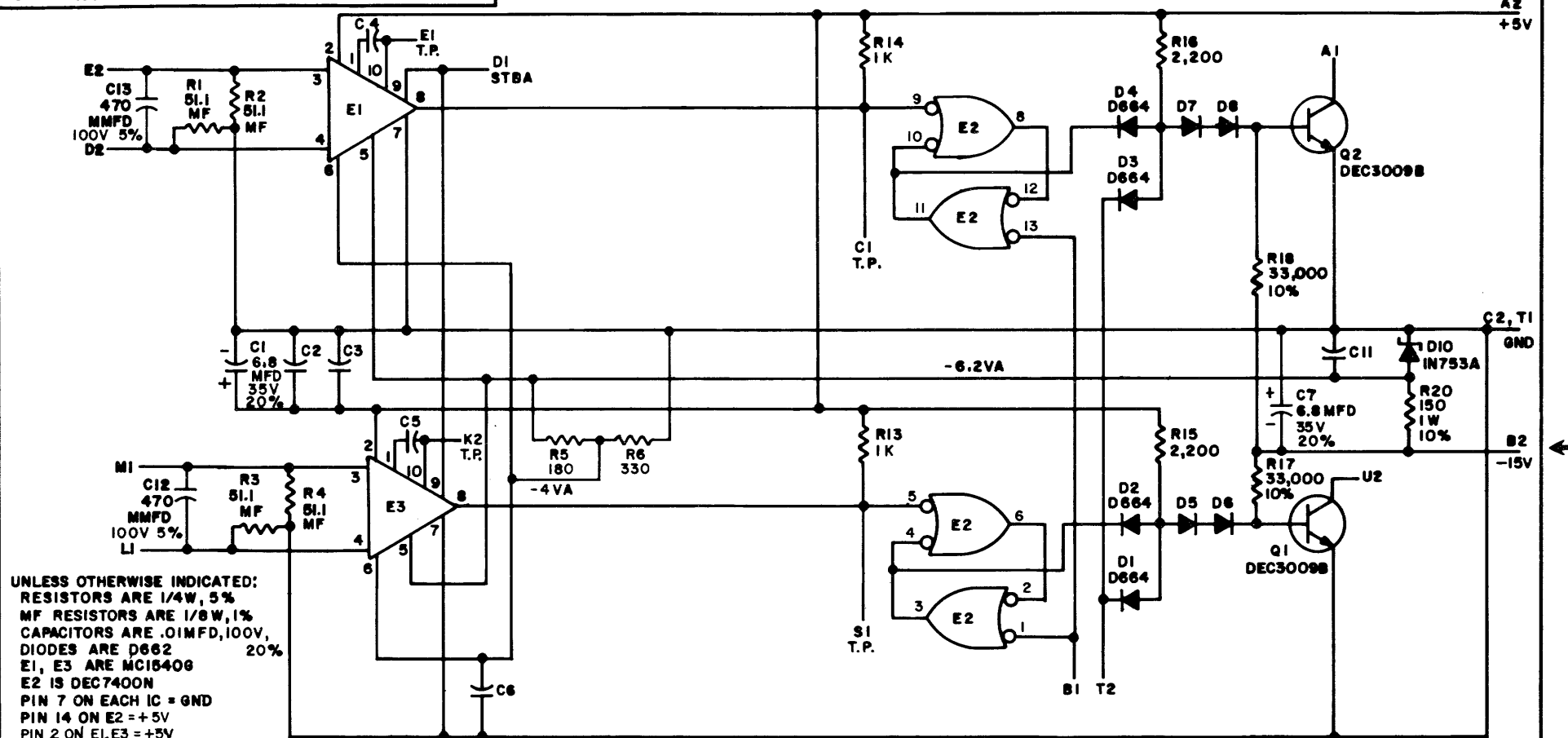
UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W; 5%
DIODES ARE D664
TRANSISTORS ARE DEC3639-1B

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

REVISIONS CHK CHG NO. REV.	DRN <i>M. Haller</i>	DATE 2-10-67	TRANSISTOR & DIODE CONVERSION CHART				digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE DIODE GATE B142			
	CHK'D <i>R. Silverman</i>	DATE 2/19/67	DEC	EIA	DEC	EIA		SIZE B	CODE CS	NUMBER B142-0-1	REV.
	ENG <i>RCS</i>	DATE 7-1-67	DEC	EIA	DEC	EIA		SIZE B	CODE CS	NUMBER B142-0-1	REV.
	PROD.	DATE	DEC	EIA	DEC	EIA		SIZE B	CODE CS	NUMBER B142-0-1	REV.

1-0-0200
REV. J

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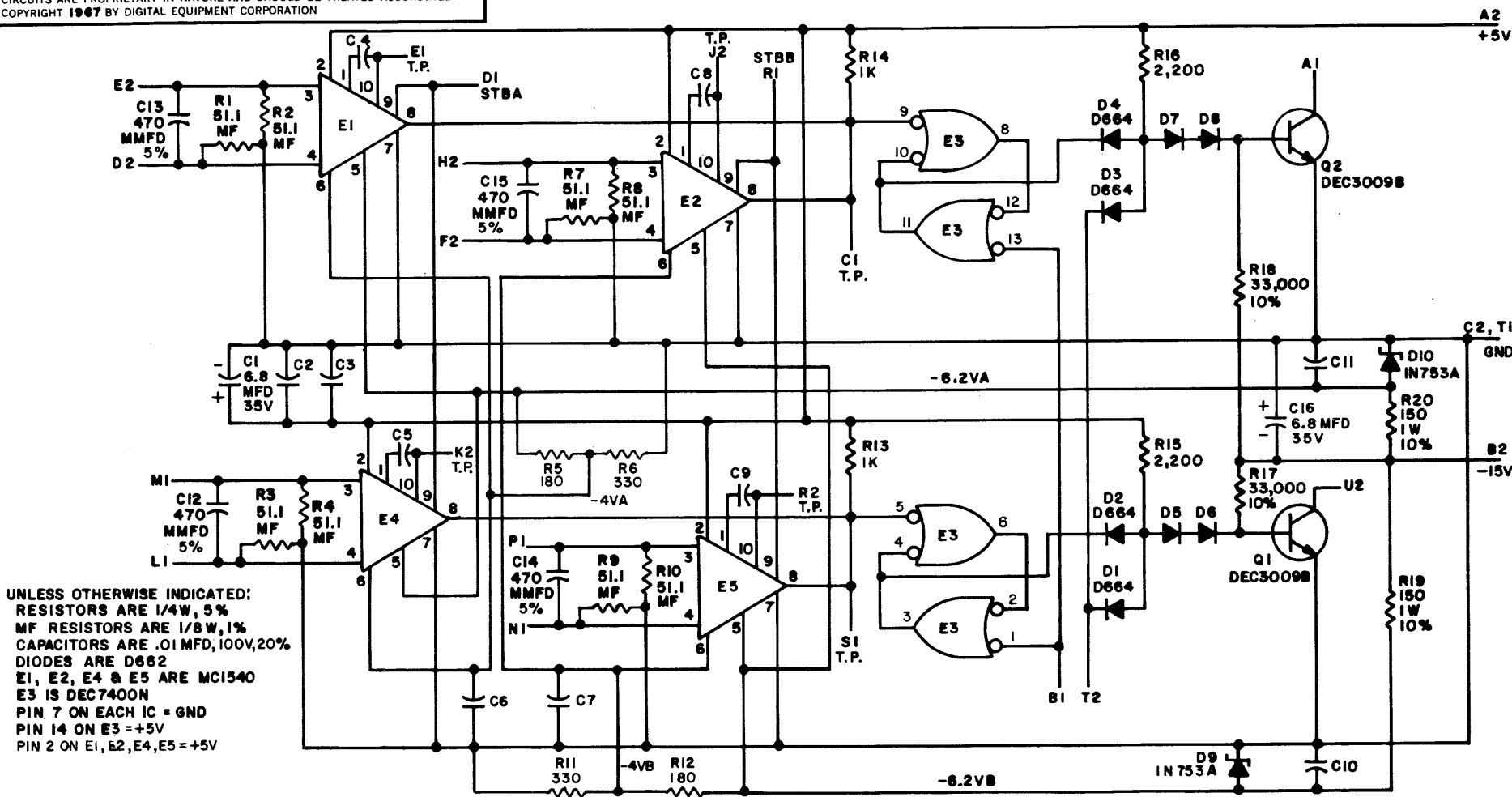


USE THE ETCH BOARD OF THE G021

PARTS LIST IS A-PL-G020-0-0

REVISIONS		CHK'D	DATE	TRANSISTOR & DIODE CONVERSION CHART		TITLE	
1	00001	G	7-18-67	DEC	EIA	SENSE AMP. G020	
2	00002	D	7/18/67	DEC3009B	2N3009	SIZE	CODE
3	00003	E	8/16/67	D662	IN648	B	CS
4	00004	F		D664	IN3606	NUMBER	
5	00005	H		IN753A	SAME	G020-0-1	
6	00006	J				REV.	
7	00007					J	
DRN. Mr. Waller				EQUIPMENT CORPORATION		PRINTED CIRCUIT REV.	
CHK'D				MAYNARD, MASSACHUSETTS		H	
ENG. R. Dwyer						324 434 435	
PROD. 2						PINK	

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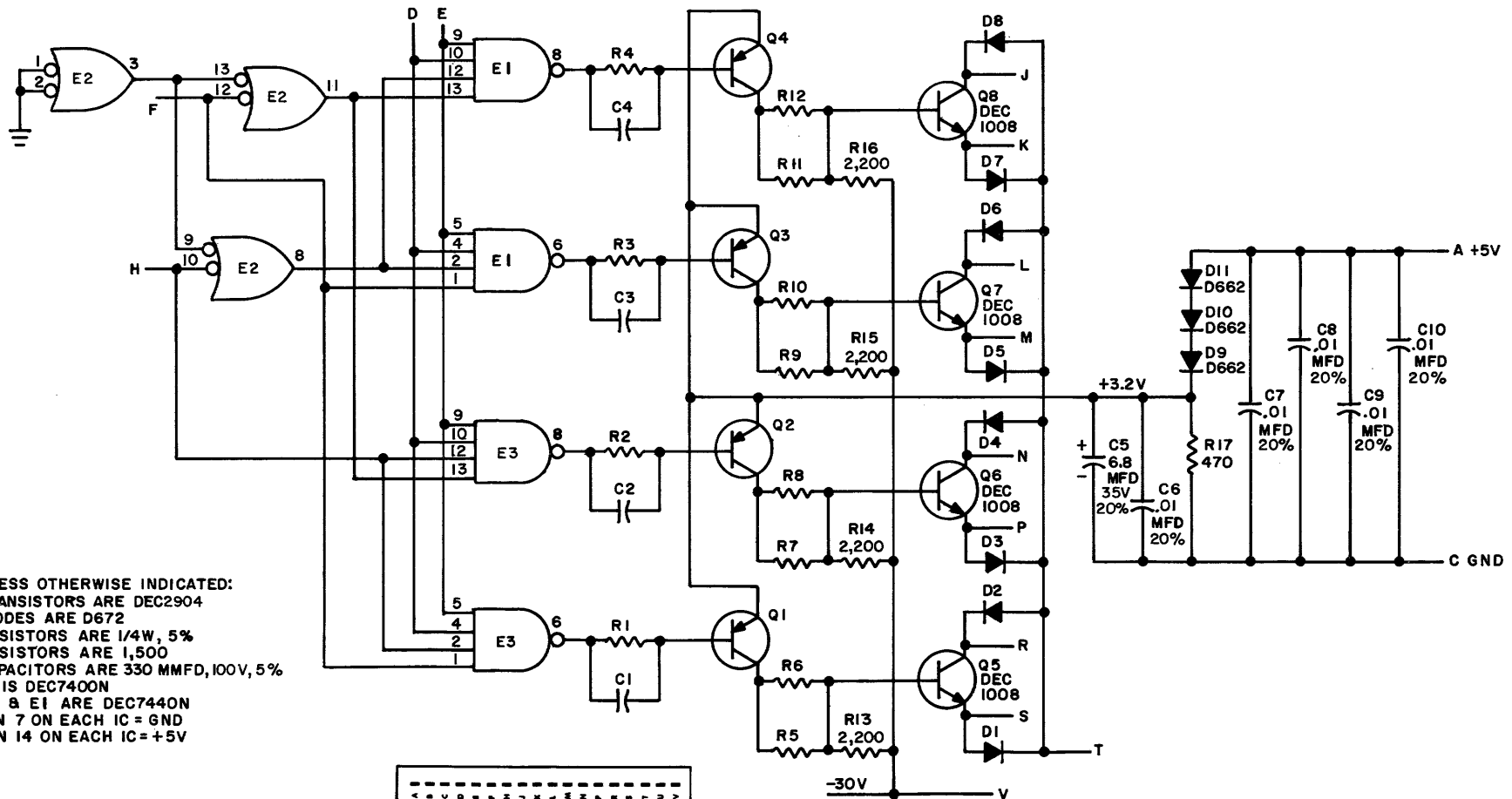


PARTS LIST IS A-PL-G021-0-0

REVISIONS		DRN. <i>M. Waller</i>		DATE 4-11-67		TRANSISTOR & DIODE CONVERSION CHART				TITLE	
CHK	CHG NO. REV.	CHK'D	DATE	DEC	EIA	DEC	EIA	digital		SENSE AMP. G021	
00001	C	00001	4-22-67	DEC3009B	2N3009			EQUIPMENT CORPORATION		SIZE B	CODE CS
00002	D	00002	4-22-67	D662	IN645			MAYNARD, MASSACHUSETTS		NUMBER	REV. J
00003	E	00003	4-22-67	D664	IN3606					G021-0-1	
00004	F	00004	4-22-67	IN753	SAME					PRINTED CIRCUIT REV.	H
00005	G	00005									
00006	H	00006									
00007	J	00007									
00008		00008									

REV. D
NUMBER 6221-0-1
SIZE B
CODE CS

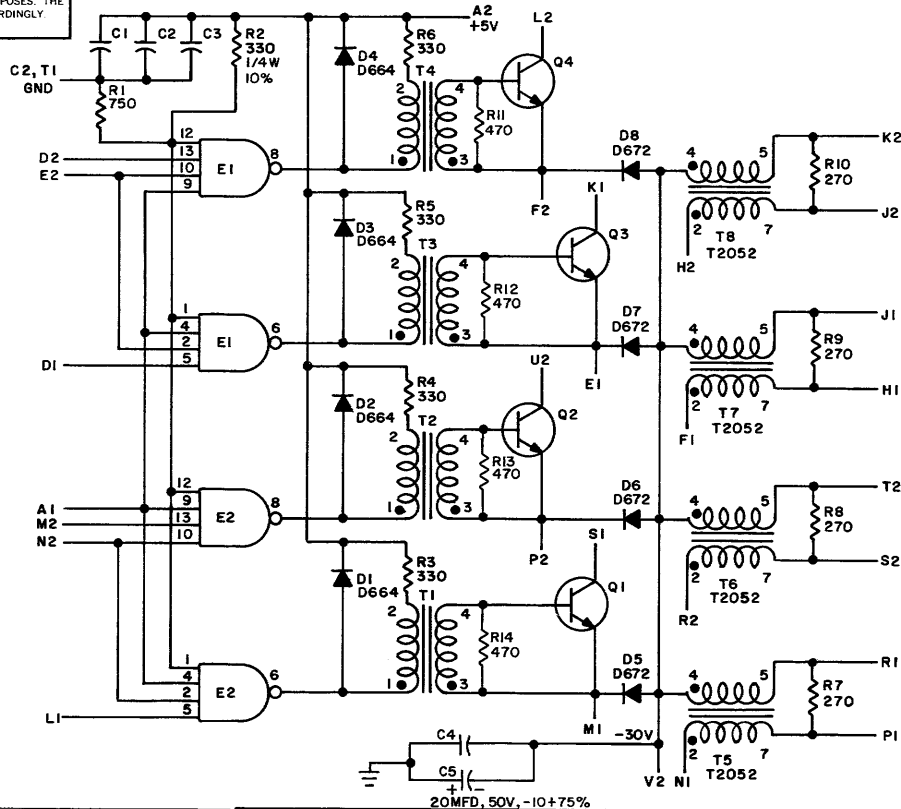
THIS SCHEMATIC IS FURNISHED ONLY FOR TEST AND MAINTENANCE PURPOSES. THE CIRCUITS ARE PROPRIETARY IN NATURE AND SHOULD BE TREATED ACCORDINGLY. COPYRIGHT 1967 BY DIGITAL EQUIPMENT CORPORATION



PARTS LIST IS A-PL-G221-0-1

REVISIONS CHK CHG NO. REV. 6491 A 6508 B 00001 C 00004 D				DRN. <i>M. Waller</i> DATE <i>4-3-67</i> CHK'D <i>[Signature]</i> DATE <i>5/5/67</i> ENG. <i>[Signature]</i> DATE <i>5/5/67</i> PROD. <i>[Signature]</i> DATE		TRANSISTOR & DIODE CONVERSION CHART <table border="1"> <tr> <th>DEC</th> <th>EIA</th> <th>DEC</th> <th>EIA</th> </tr> <tr> <td>DEC1008</td> <td>MM1008</td> <td></td> <td></td> </tr> <tr> <td>DEC2904</td> <td>2N2904</td> <td></td> <td></td> </tr> <tr> <td>D662</td> <td>IN645</td> <td></td> <td></td> </tr> <tr> <td>D672</td> <td>IN3653</td> <td></td> <td></td> </tr> </table>				DEC	EIA	DEC	EIA	DEC1008	MM1008			DEC2904	2N2904			D662	IN645			D672	IN3653			digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS				TITLE MEMORY SELECTOR G221 SIZE B CODE CS NUMBER 6221-0-1 REV. D PRINTED CIRCUIT REV. B			
DEC	EIA	DEC	EIA																																		
DEC1008	MM1008																																				
DEC2904	2N2904																																				
D662	IN645																																				
D672	IN3653																																				

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UNLESS OTHERWISE INDICATED:
TRANSISTORS ARE DEC1008
RESISTORS ARE 1/4W, 5%
TRANSFORMERS ARE T2037
IC'S ARE DEC7440N
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V
CAPACITORS ARE .01MFD, 100V, 20%

REV	CHG	NO	REV
1	6452	A	
2	00001	B	
3	00002	C	
4	00003	D	

DRN	DATE
CHK'D	DATE
ENG	DATE
PROD	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC1008	MM1008		
D664	IN3606		
D672	IN3653		

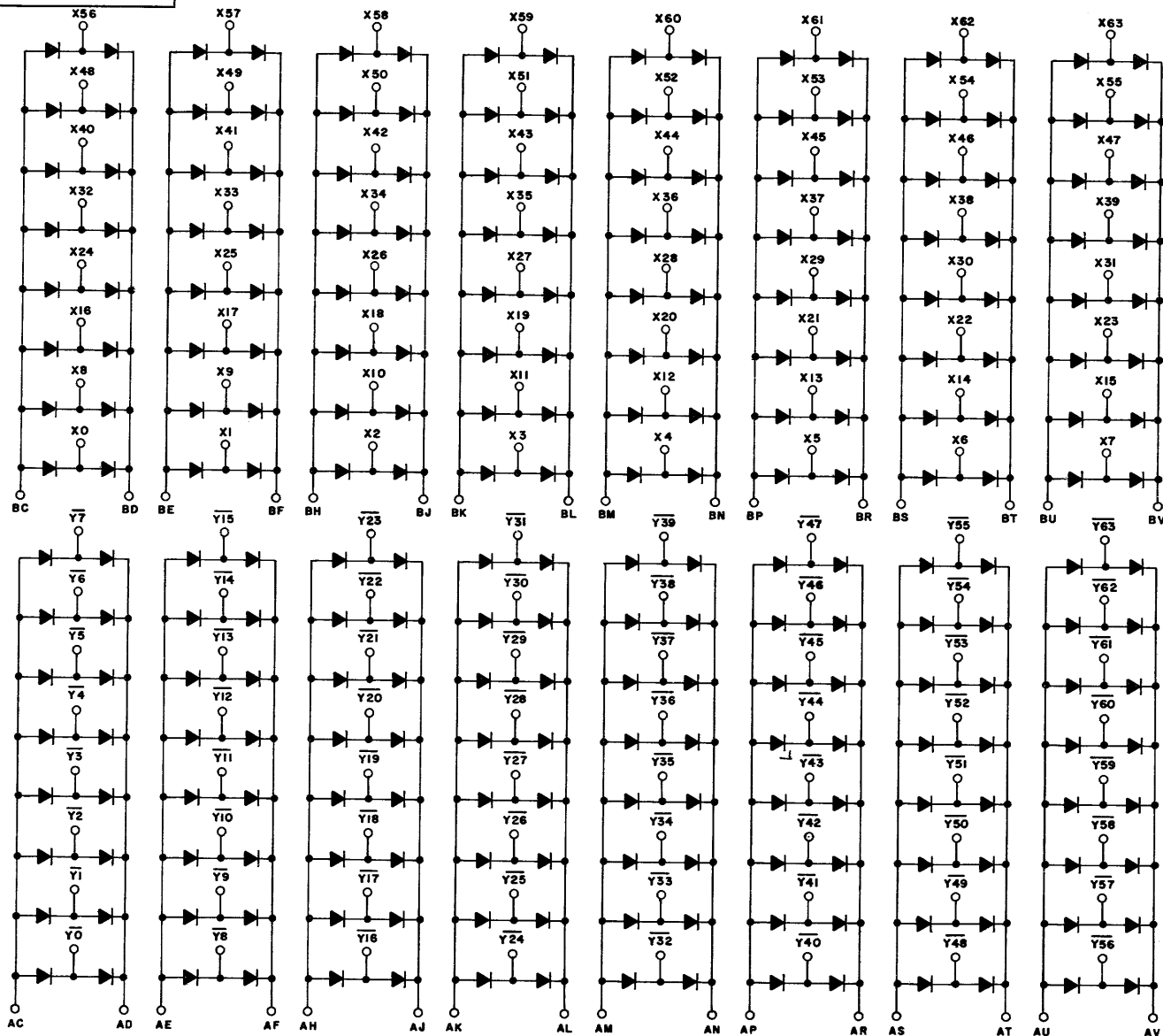
digital
EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE			
INHIBIT DRIVER G228			
SIZE	CODE	NUMBER	REV.
B	CS	G228-0-1	F
PRINTED CIRCUIT REV			

DEC FORM NO
DRB 102

DIST 32 4, 4 34, 4 35

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UNLESS OTHERWISE INDICATED:
DIODES ARE D672
USE D671 AS SUBSTITUTE
R1 IS A 330Ω THERMISTOR
25% #A0905P-8

REVISIONS
CHK CHG NO REV
000001 B

DRN. *M. Wallen* DATE 11-28-66
CHK'D *R. Johnson* DATE 11/28/66
ENC. *R. Johnson* DATE 11/28/66
PROD. *R. Johnson* DATE 11/28/66

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
D672	1N3665		

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

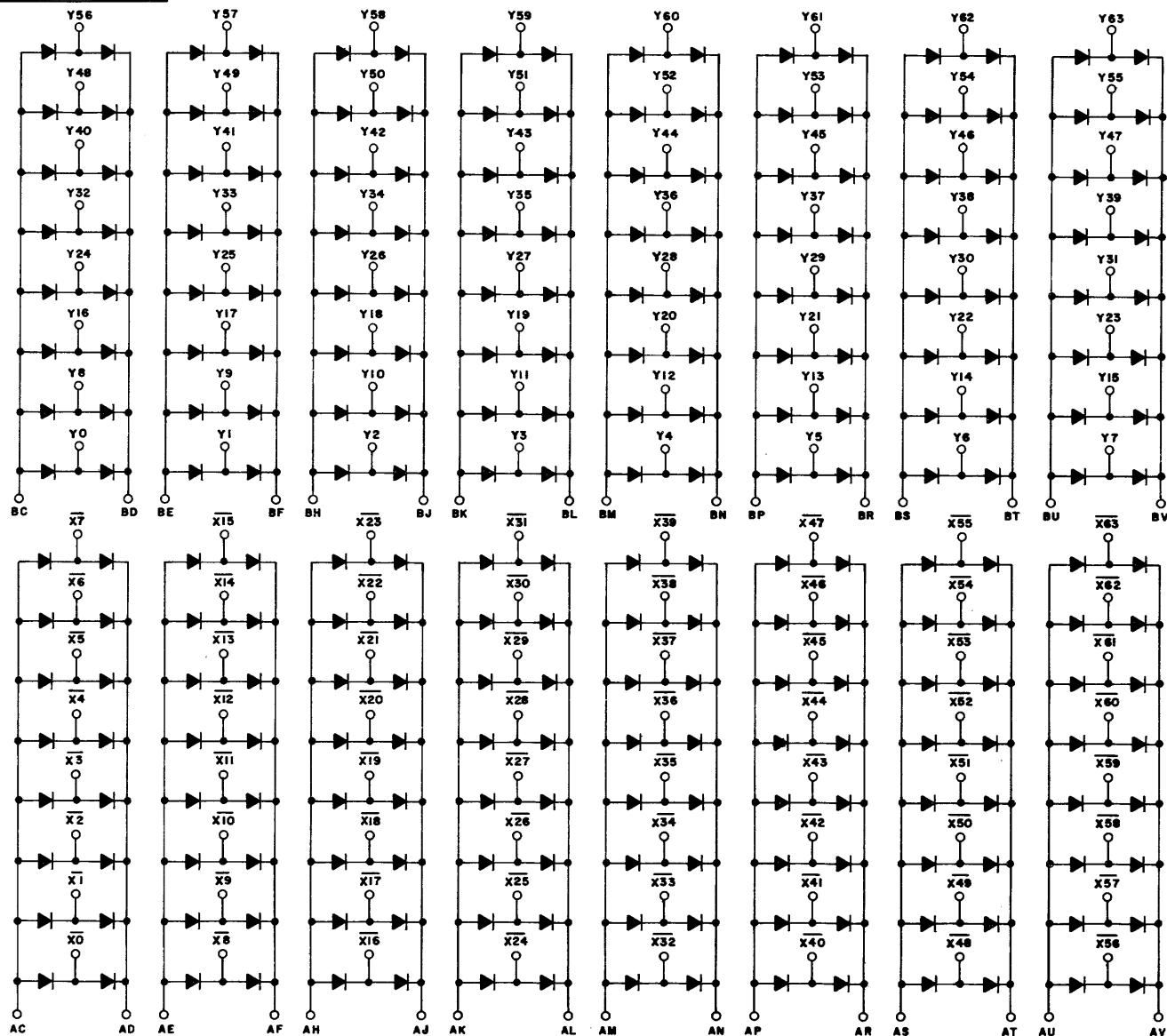
TITLE
A-DIODE BOARD G610

SIZE CODE NUMBER REV.
C CS G610-0-1 B

PRINTED CIRCUIT REV. A B

FILE CODE NUMBER REV.
C CS G610-0-1 B

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UNLESS OTHERWISE INDICATED:
DIODES ARE D672
USE D671 AS SUBSTITUTE

REVISIONS	CHK	CHG	NO.	REV.
1			108	A

DEC FORM NO.
DRC 102

DRN	DATE
CHKD	DATE
DATE	DATE
DATE	DATE
DATE	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D672	1N5003		

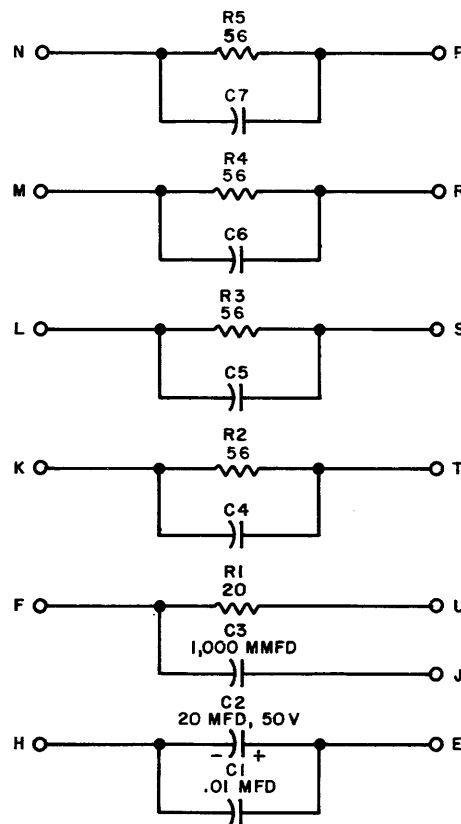
digital		B-DIODE BOARD G611	
EQUIPMENT	SIZE	CODE	NUMBER
CORPORATION	C	CS	6611-0-1
MAYNARD, MASSACHUSETTS		PRINTED CIRCUIT REV.	

DATE CODE
C CS 6611-0-1

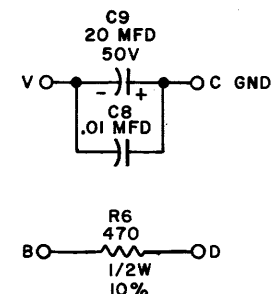
REV. A

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REV. D
NUMBER 6624-0-1
SIZE CODE B CS



UNLESS OTHERWISE INDICATED:
CAPACITORS ARE 680 MMFD
RESISTORS ARE 10W, 1%, LOW INDUCTANCE



- - - - -

REV.	CHK	NO.	REV.
1	6442	A	
2	6581	B	
3	6709	C	
4	00001	D	

DRN. *M. Haller*
DATE 5-24-67
CHK'D *[Signature]*
DATE 6/24/67
ENG *[Signature]*
DATE 6/25/67
PROD. *[Signature]*
DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

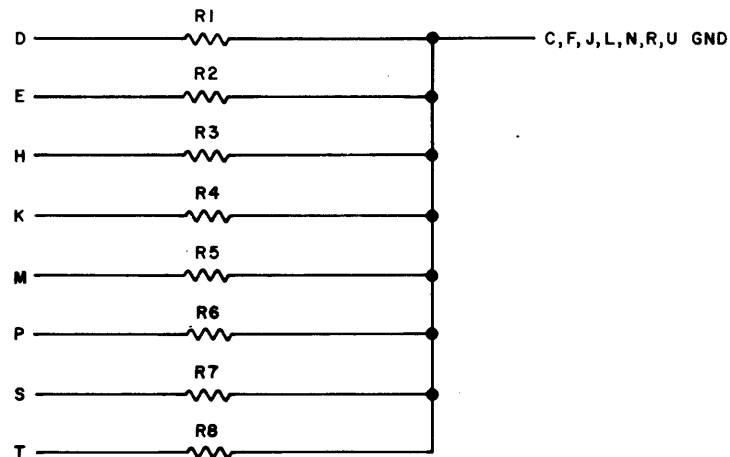
digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE			
RESISTOR BOARD G624			
SIZE	CODE	NUMBER	REV.
B	CS	6624-0-1	D
PRINTED CIRCUIT REV.			C



REV.	NUMBER	SIZE	CODE
	6700-YA-1	B	CS

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UNLESS OTHERWISE INDICATED:
RESISTORS ARE 100; 1/4W; 5%

USE THE G700 ETCH

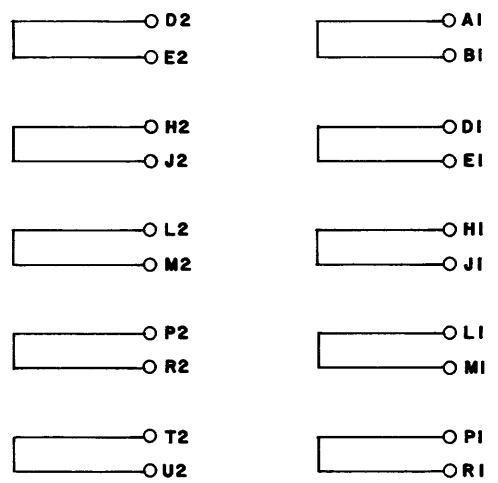
REVISIONS CHK CHG NO. REV.	DRN.	DATE	TRANSISTOR & DIODE CONVERSION CHART				digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE			
	CHK'D	DATE	DEC	EIA	DEC	EIA		100Ω TERMINATOR G700-YA			
	ENR	DATE						SIZE	CODE	NUMBER	REV.
	PROG.	DATE						B	CS	G700-YA-1	
								PRINTED CIRCUIT REV.			





REV	A	NUMBER	6718-0-1	CS	B	SIZE
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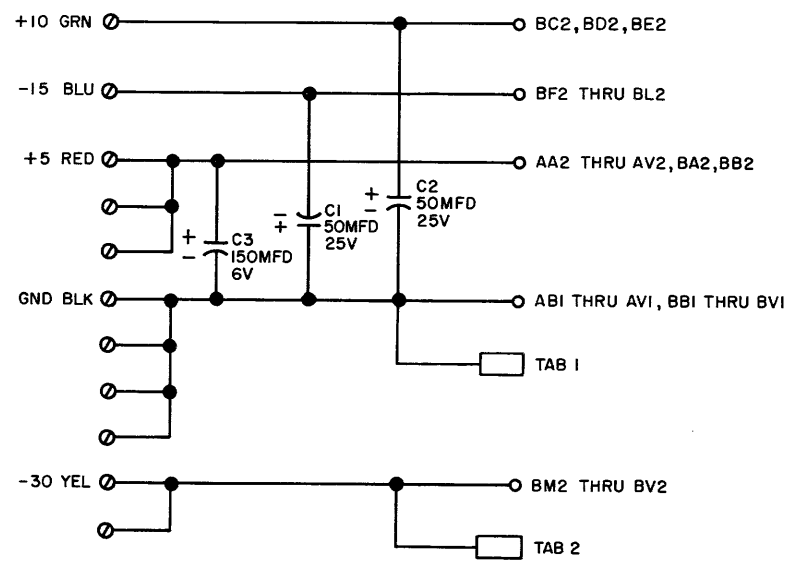
PARTS LIST IS A-PL-6718-0-0

REVISIONS	CHK	CHG	NO	REV	DRN	DATE	TRANSISTOR & DIODE CONVERSION CHART				digital	EQUIPMENT CORPORATION	MAYNARD, MASSACHUSETTS	TITLE	TIMING JUMPER G718	REV.	A		
	1/2	00001	A	1-10-69			DEC	EIA	DEC	EIA									
	1/2	00001	A	1-14-69			DEC	EIA	DEC	EIA									
	1/2	00001	A	1-23-69			DEC	EIA	DEC	EIA									
PROD.					DATE					PRINTED CIRCUIT REV.					A				



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REV. 1-0-0879 B CS
NUMBER 6780-0-1



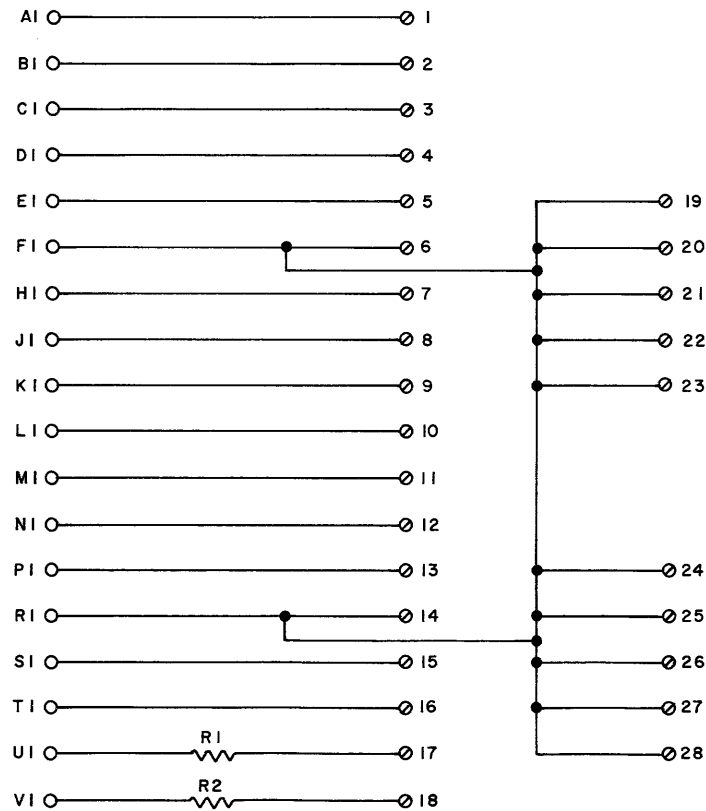
UNLESS OTHERWISE INDICATED:
 ○ ARE EYELETS
 TABS ARE DEC A-MD-7407196

REVISIONS CHK CHG NO. REV.	DRN.	DATE	TRANSISTOR & DIODE CONVERSION CHART				digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE POWER CONNECTOR G780			
	CHK'D	DATE	DEC	EIA	DEC	EIA		SIZE	CODE	NUMBER	REV.
	ENG	DATE						B	CS	6780-0-1	
	PROD.	DATE									

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COLOR CODING CHART BASED ON STD. BELDEN PAIR DESIGNATION			
PAIR NO.	SHIELD	PIN	WIRE
1	RED	A1 B1	BLK RED
2	RED	C1 D1	BLK WHT
3	GRN	E1 H1	BLK GRN
4	BLU	J1 K1	BLK BLU
5	BLU	L1 M1	BLK YEL
6	BLU	N1 P1	BLK BRN
7	BLU	S1 T1	BLK ORN
8	BLU	U1 V1	RED WHT
9	BLU	F1 R1	RED GRN

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 10, 1/4W, 10%
⊙ INDICATES SPLIT LUG



REVISIONS
CHK CHG NO. REV.

DRN. *M. Keller* DATE *4-14-69*
CHK'D *M. Mendenhall* DATE *4-16-69*
ENG'D *E. Hale* DATE *5/15/69*
PROD. DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

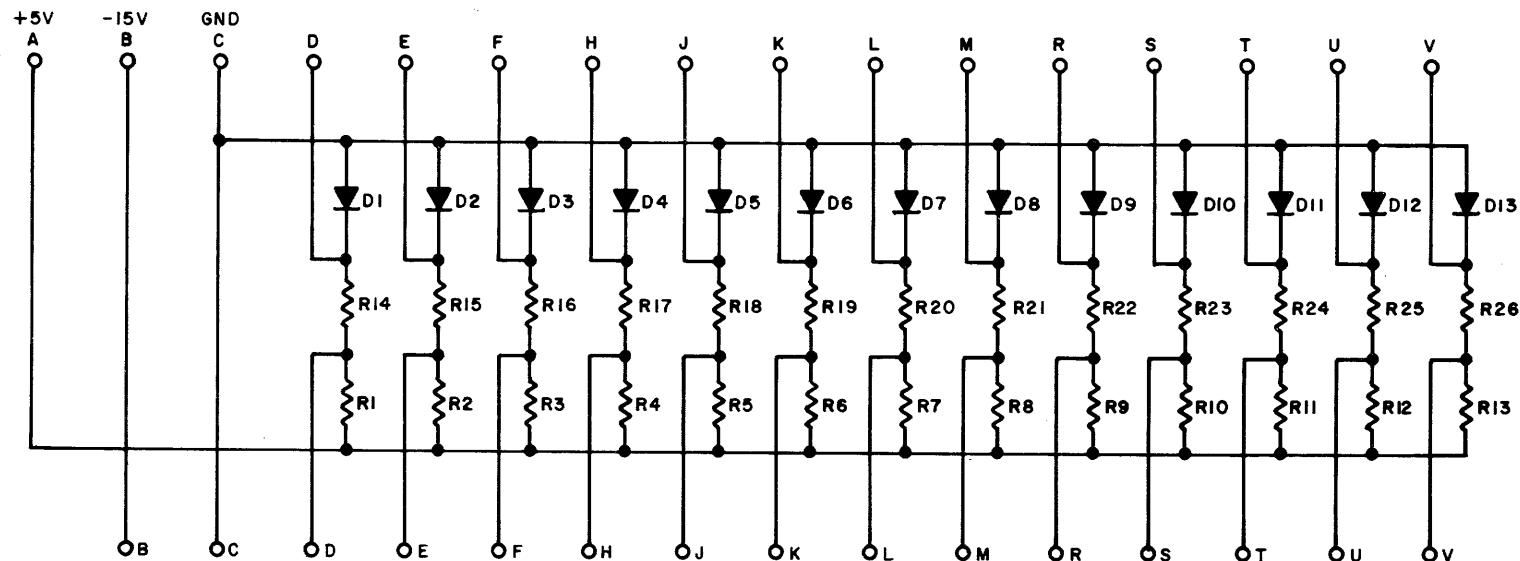
digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
CABLE CONNECTOR G783

SIZE	CODE	NUMBER	REV.
B	CS	G783-0-1	
PRINTED CIRCUIT REV.			A

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REV. B
NUMBER 6793-0-1
SIZE B
CODE CS



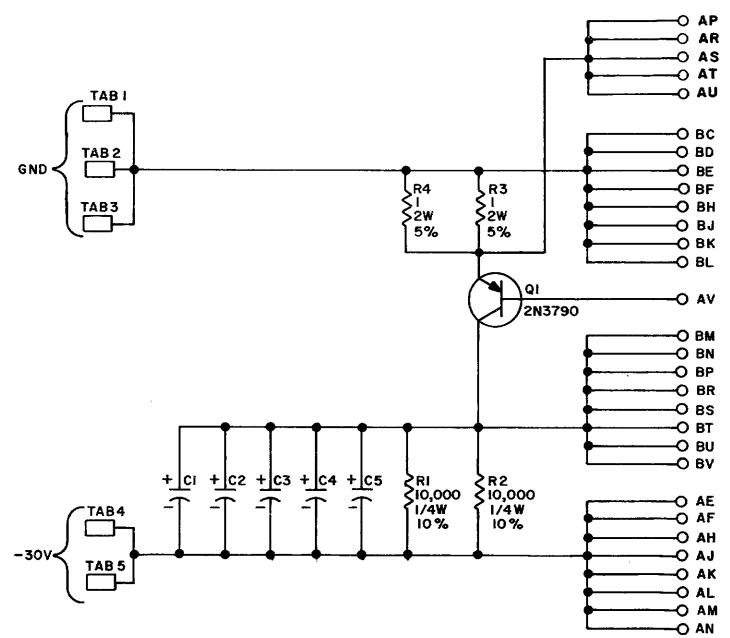
FLEXPRINT

R1 THRU R13	RES. 6.8K 1/4W 10% CC	1300463
R14 THRU R26	RES. 1.5K 1/4W 5% CC	1300391
D1 THRU D13	DIODE D664	11 00114
	PARTS LIST	A-PL-6793-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

REVISIONS CHK CHG NO. REV. 100001 A 100002 B	DRN. <i>Mr. Miller</i> CHK'D <i>R. Silverman</i> ENG. <i>Rogge</i> PROD.	DATE 1-9-68 DATE 11/15/68 DATE 11/15/68 DATE	TRANSISTOR & DIODE CONVERSION CHART <table border="1"> <tr> <th>DEC</th> <th>EIA</th> <th>DEC</th> <th>EIA</th> </tr> <tr> <td>D664</td> <td>1N3606</td> <td></td> <td></td> </tr> </table>				DEC	EIA	DEC	EIA	D664	1N3606			digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		TITLE PDP-8I SWITCH CONNECTOR G793	
	DEC	EIA	DEC	EIA														
	D664	1N3606																
				SIZE B CODE CS NUMBER 6793-0-1		REV. B		PRINTED CIRCUIT REV. B										

H 6805-0-1 B CS NUMBER REV.

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UNLESS OTHERWISE INDICATED:
CAPACITORS ARE 20MFD 50V, -10+75%
TABS ARE 250 SERIES FASTON TABS TYPE 60465-2 (AMP INC)
Q1 IS MOUNTED ON HEAT SINK, WAKEFIELD TYPE NC-623-A USING AN ANODIZED ALUMINUM INSULATING WASHER & WAKEFIELD TYPE 120 THERMAL JOINT COMPOUND

PARTS LIST A-PL-6805-0-0

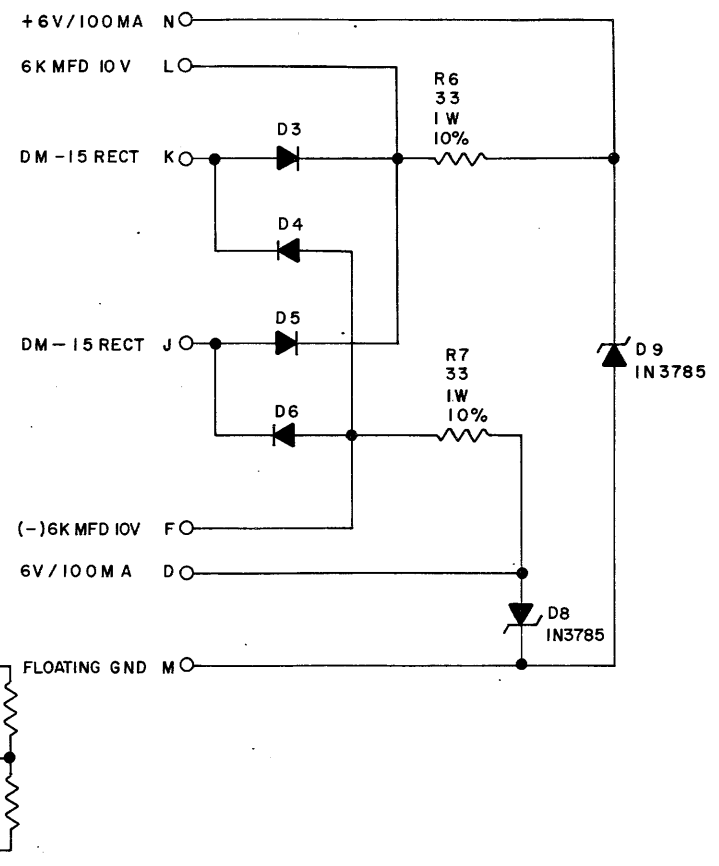
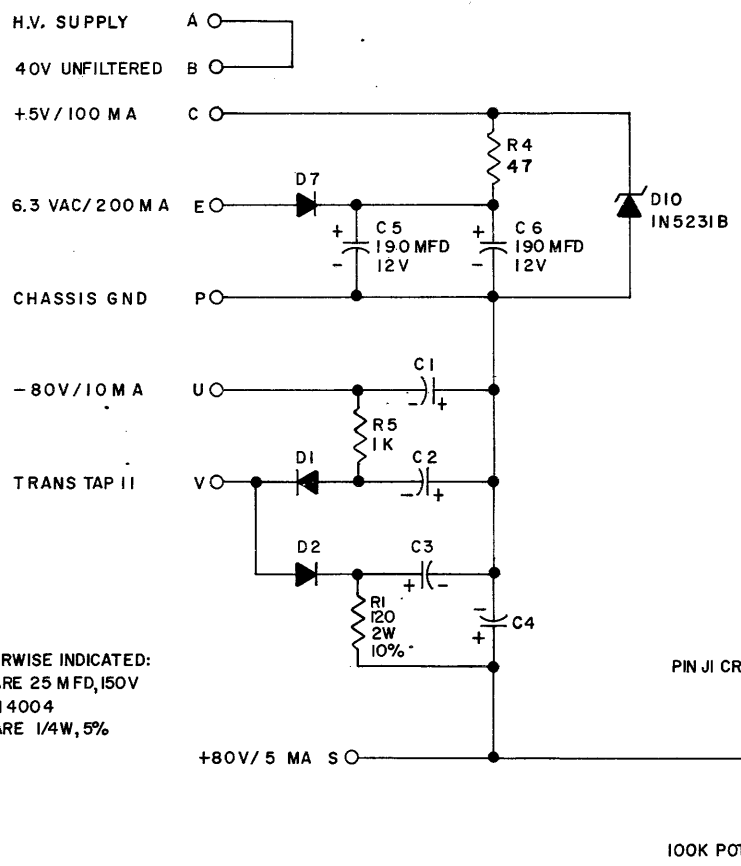
REVISIONS CHG NO. REV. 1 5902 B 2 6468 C 3 7072 E 4 00002 H		DRN. 1/12/66 CHK'D 1/12/66 ENG. 1/12/66 PROD. 1/12/66	DATE 1/12/66 DATE 1/12/66 DATE 1/12/66 DATE 1/12/66	TRANSISTOR & DIODE CONVERSION CHART DEC EIA 2N3790 SAME	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE NEGATIVE REGULATOR 6805 SIZE B CODE CS NUMBER 6805-0-1 REV H PRINTED CIRCUIT REV. EF
---	--	--	--	---	---	---

DEC FORM NO. DRB 102

5 PINK DIST. 324 434 435³

REV. B
NUMBER 6817-0-1
CS B
SIZE 3215

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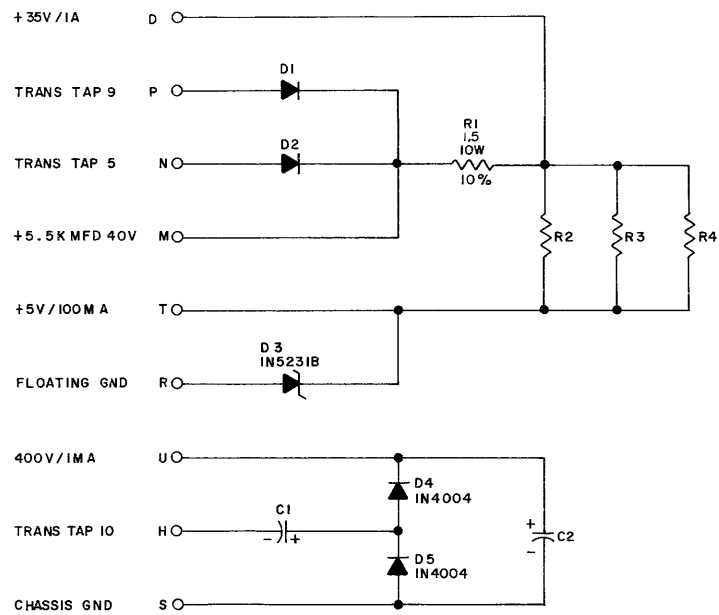


UNLESS OTHERWISE INDICATED:
CAPACITORS ARE 25 MFD, 150V
DIODES ARE IN 4004
RESISTORS ARE 1/4W, 5%

REVISIONS CHK CHG NO. REV. 00001 B		DRN. <i>R. B. Bunker</i> DATE 2-25-69 CHK'D <i>R. B. Bunker</i> DATE 6-2-69 ENG. <i>R. B. Bunker</i> DATE 7-17-69 PROD. _____ DATE _____		TRANSISTOR & DIODE CONVERSION CHART <table border="1"> <tr> <th>DEC</th> <th>EIA</th> <th>DEC</th> <th>EIA</th> </tr> <tr> <td>IN5231B</td> <td>SAME</td> <td></td> <td></td> </tr> <tr> <td>IN3785</td> <td>SAME</td> <td></td> <td></td> </tr> <tr> <td>IN4004</td> <td>SAME</td> <td></td> <td></td> </tr> </table>				DEC	EIA	DEC	EIA	IN5231B	SAME			IN3785	SAME			IN4004	SAME			digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		TITLE POWER SUPPLY BI G817 SIZE B CODE CS NUMBER G817-0-1 REV. B PRINTED CIRCUIT REV. A		
DEC	EIA	DEC	EIA																									
IN5231B	SAME																											
IN3785	SAME																											
IN4004	SAME																											

REV. D
NUMBER G818-0-1
SIZE B
CODE CS

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UNLESS OTHERWISE INDICATED:
CAPACITORS ARE 10 MFD 450V
DIODES ARE MR1033B
RESISTORS ARE 1K 2W 5%

REV.	CHG NO.	REV.
C	00001	
D	00002	

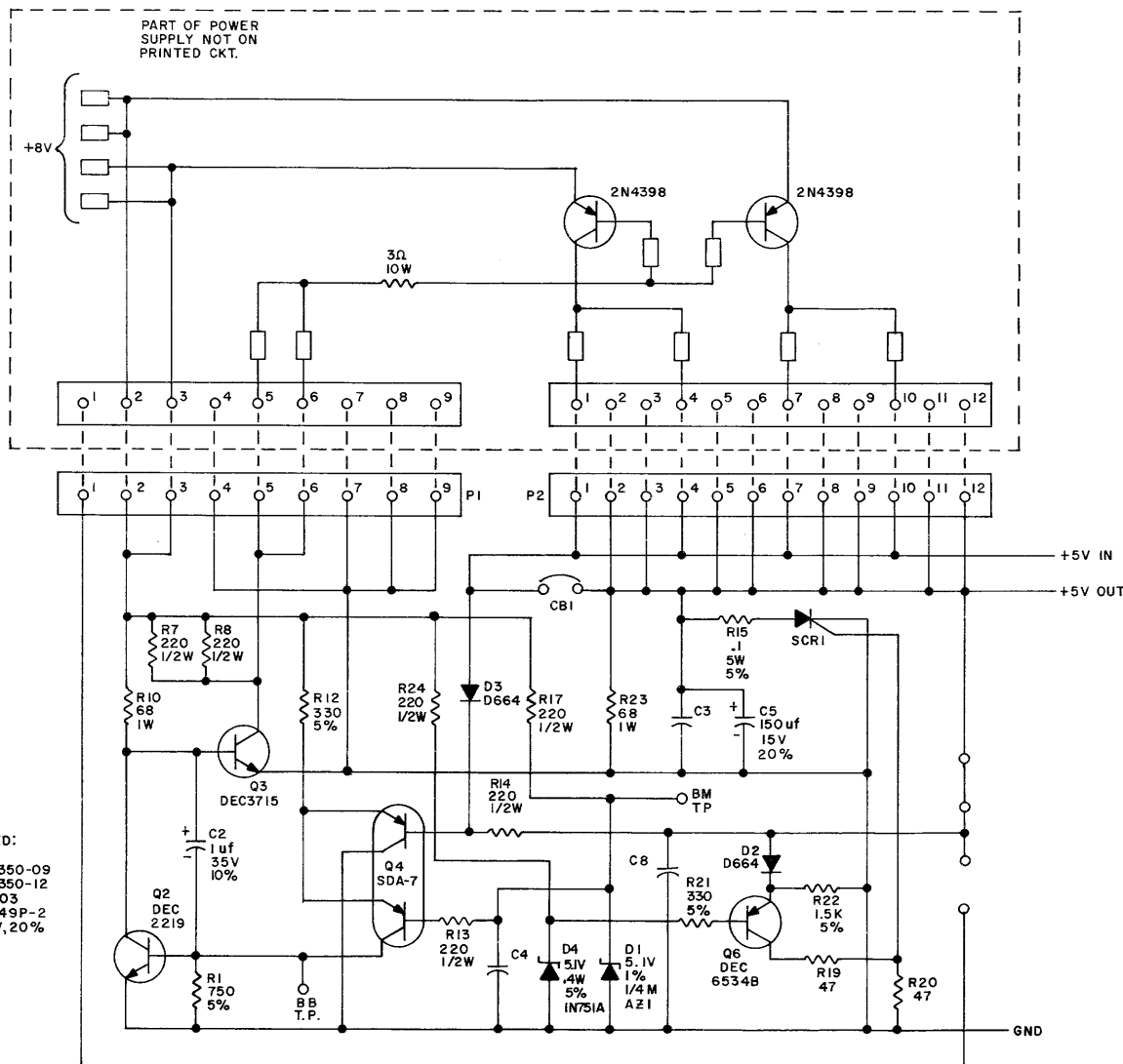
DRN	DATE
MR1033B	1-2-69
CHK'D	DATE
MR1033B	1-2-69
ENG.	DATE
MR1033B	1-2-69
PROD.	DATE
MR1033B	1-2-69

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
MR1033B	SAME		
IN5231B	SAME		
IN4004	SAME		

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

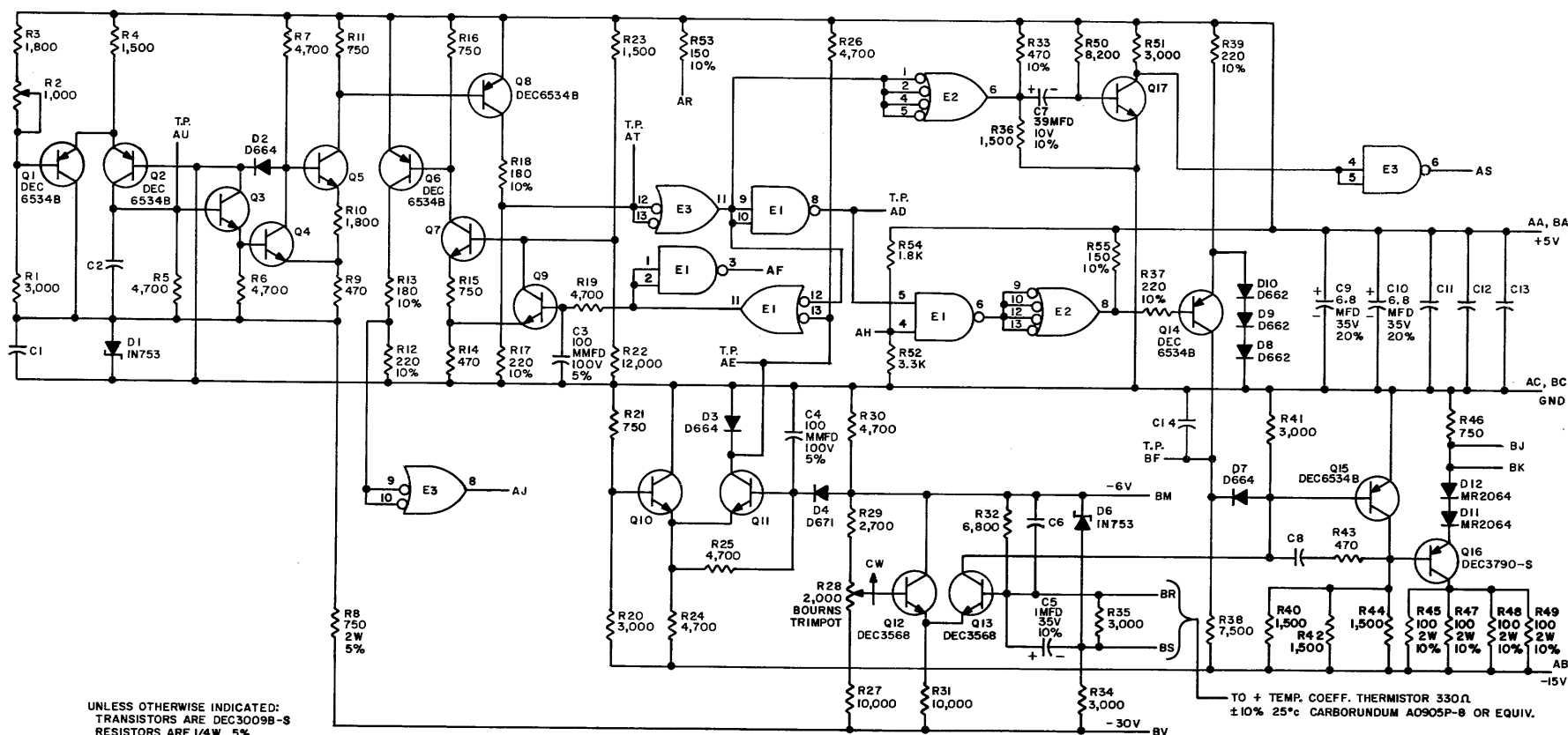
TITLE			
POWER SUPPLY B2 G818			
SIZE	CODE	NUMBER	REV
B	CS	G818-0-1	D
PRINTED CIRCUIT REV.			
B			

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 10%
P1 IS SOCKET HOUSING 1209350-09
P2 IS SOCKET HOUSING 1209350-12
CB1 IS AIRPAX #UPLI-50-0203
SCR1 IS A RECTIFIER MCR649P-2
CAPACITORS ARE .01uf, 100V, 20%



REVISIONS CHK CHG NO. REV 00001 B 00002 C		DFN: <i>Dr. Muller</i> DATE: 5-5-69 CHK'D: <i>W. J. Miller</i> DATE: 5-7-69 ENG: <i>W. J. Miller</i> DATE: 5/15/69 PROD:		TRANSISTOR & DIODE CONVERSION CHART <table border="1"> <tr> <th>DEC</th> <th>EIA</th> <th>DEC</th> <th>EIA</th> </tr> <tr> <td>D664</td> <td>1N3606</td> <td>SDA-7</td> <td>SAME</td> </tr> <tr> <td>5.1V 1/4M AZ1</td> <td>NONE</td> <td></td> <td></td> </tr> <tr> <td>DEC6534B</td> <td>MP56534</td> <td></td> <td></td> </tr> <tr> <td>DEC2219</td> <td>2N2219</td> <td></td> <td></td> </tr> <tr> <td>DEC3715</td> <td>NONE</td> <td></td> <td></td> </tr> </table>				DEC	EIA	DEC	EIA	D664	1N3606	SDA-7	SAME	5.1V 1/4M AZ1	NONE			DEC6534B	MP56534			DEC2219	2N2219			DEC3715	NONE			TITLE digital +5 VOLT REGULATOR G824 EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS PRINTED CIRCUIT REV. B		SIZE CODE NUMBER REV. C CS G824-0-1 C	
DEC	EIA	DEC	EIA																																
D664	1N3606	SDA-7	SAME																																
5.1V 1/4M AZ1	NONE																																		
DEC6534B	MP56534																																		
DEC2219	2N2219																																		
DEC3715	NONE																																		

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UNLESS OTHERWISE INDICATED:
TRANSISTORS ARE DEC3009B-S
RESISTORS ARE 1/4W, 5%
CAPACITORS ARE .01 MFD
EI & E3 ARE DEC7400N
E2 IS DEC7440N
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V

PARTS LIST A-PL-GB26-O-O

REVISIONS		
CHK	CHG NO.	REV.
<i>Handwritten initials</i>	6923	E
<i>Handwritten initials</i>	00002	F
	00003	
	00004	
	00005	H
<i>Handwritten initials</i>	00006	J
<i>Handwritten initials</i>	00007	L

DEC FORM NO

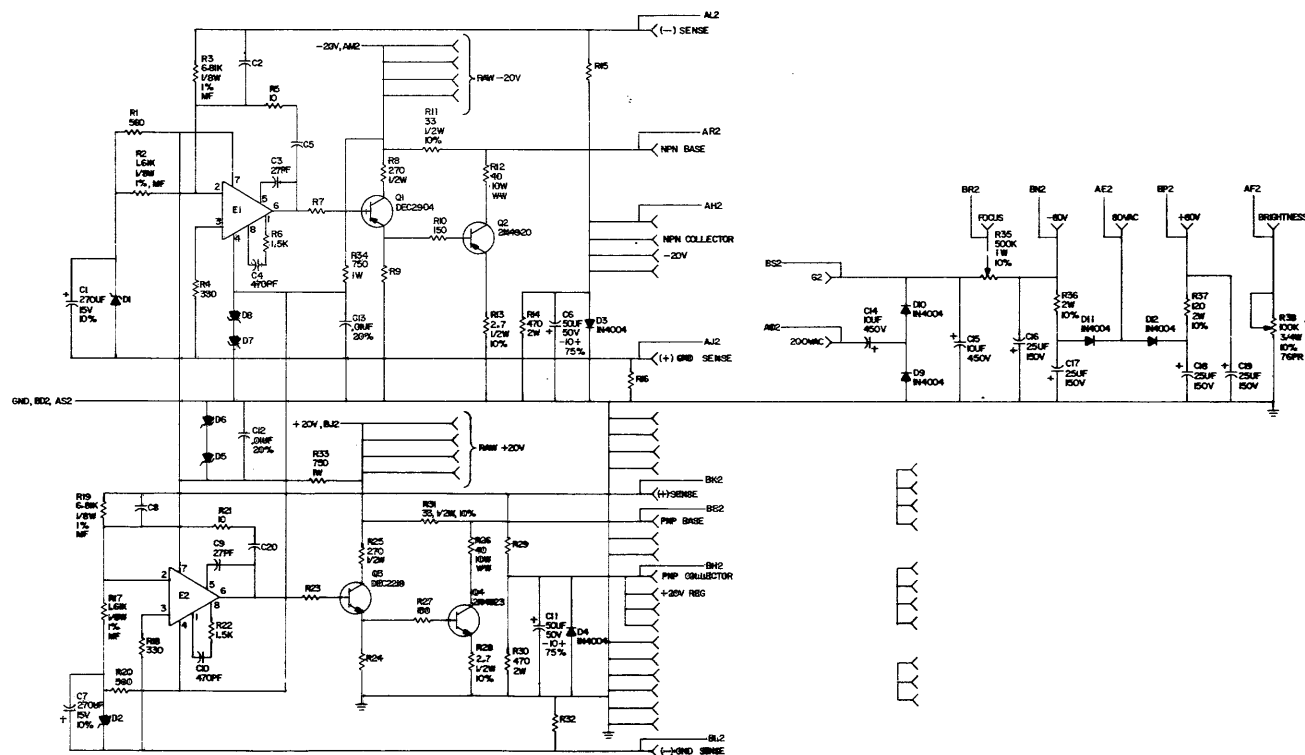
DRN. M. Waller	DATE 5-10-6
CHK'D. K. Lawrence	DATE 5/25/67
ENG. D. [Signature]	DATE 5/25/67
PROD. 4	DATE

DEC	EIA	DEC	EIA
DEC3009B	2N3009	D664	IN3606
DEC3568	2N3568	D671	IN3653
DEC6534B	MPS6534		
DEC3790	2N3790	IN 753	SAME
D682	IN645	MR2064	IN4001

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE				
REGULATOR CONTROL G826				
SIZE	CODE	NUMBER		REV.
C	CS	G826-0-1		L
PRINTED CIRCUIT REV.		K		

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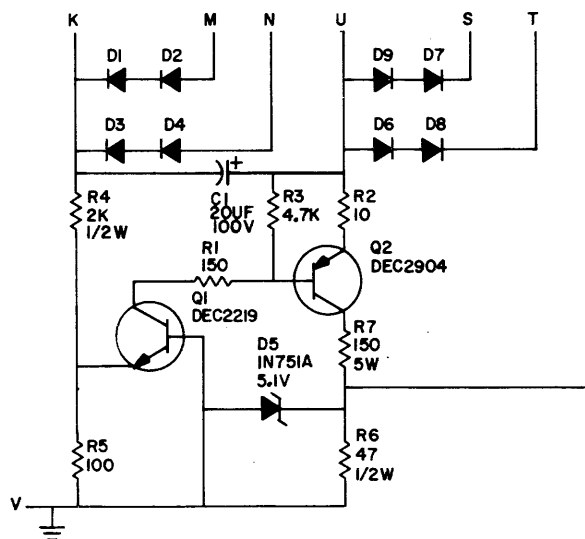
UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1K, 1/4W, 5%
DIODES ARE 1N752A, 5.6V
CAPACITORS ARE 1000PF, 100V, 5%
E1, E2 ARE DEC70/9C

 = EYELETS

[illegible]

REV. NUMBER 6838-0-1

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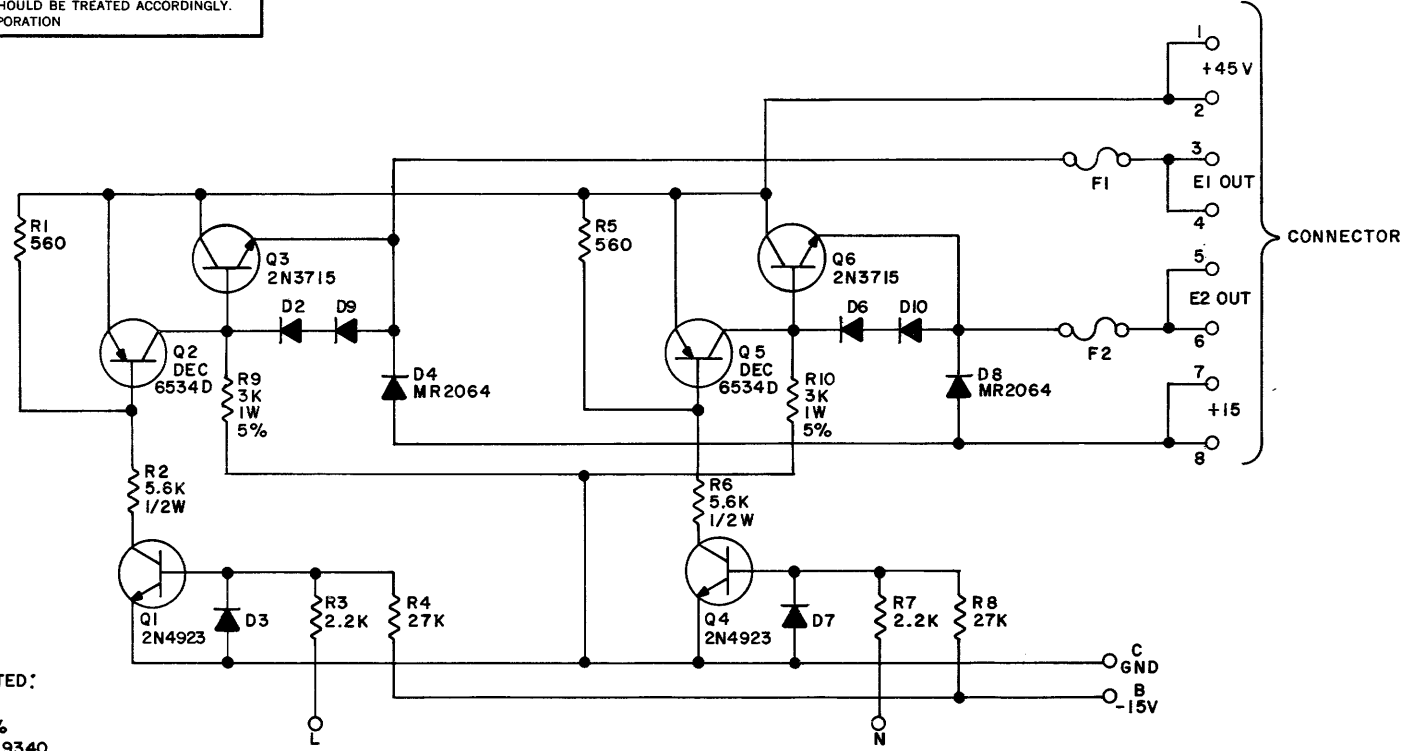
UNLESS OTHERWISE INDICATED:

RESISTORS = 1/4W, 5%

DIODES = IN4004

REVISIONS CHK CHG NO. REV.	DRN. <i>NANCY MOORE</i>	DATE <i>12/18/70</i>	TRANSISTOR & DIODE CONVERSION CHART				digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE FAULT PROTECTION BOARD 6838			
	CHK'D <i>[Signature]</i>	DATE <i>23 DEC 70</i>	DEC	EIA	DEC	EIA		SIZE B	CODE CS	NUMBER 6838-0-1	REV.
	ENG <i>37 elus</i>	DATE <i>2 29 70</i>	IN4004	SAME	IN751A	SAME					
	PROD.	DATE	DEC2904	2N1132	DEC2219	2N2219					
							PRINTED CIRCUIT REV. <i>A</i>				

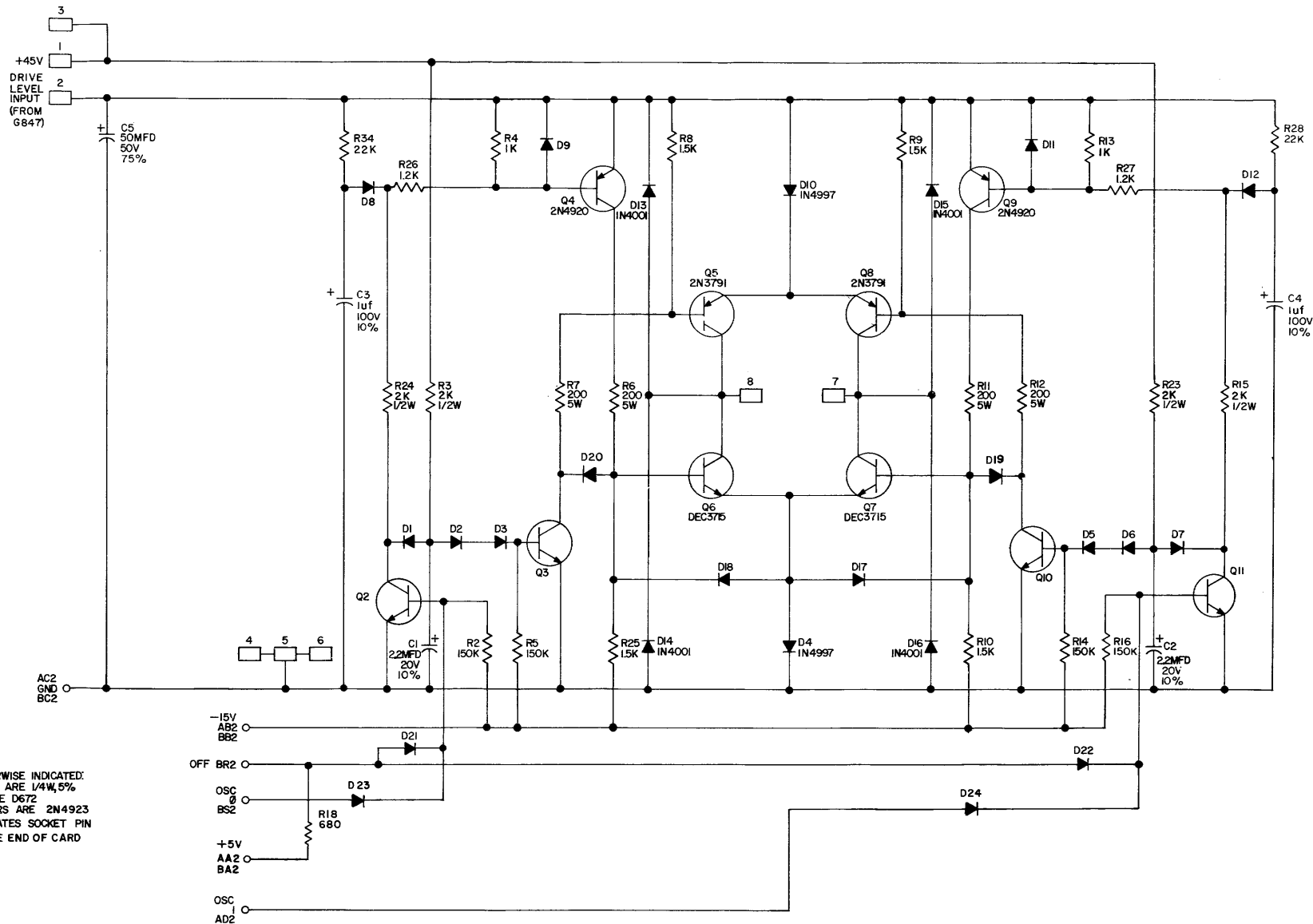
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UNLESS OTHERWISE INDICATED:
 DIODES ARE D672
 RESISTORS ARE 1/4W, 10%
 CONNECTOR IS DEC #1209340
 CONNECTOR PINS ARE DEC #1209456
 F1, F2 ARE 5 AMP

REVISIONS CHK CHG NO. REV. A 00002 00003		DRN. <i>G. Blum</i> DATE <i>9-9-69</i> CHK'D <i>J. A. Galt</i> DATE <i>9/16/69</i> ENG. <i>C. L. H. H.</i> DATE <i>2-17-70</i> PROD. DATE	TRANSISTOR & DIODE CONVERSION CHART <table border="1"> <tr> <th>DEC</th> <th>EIA</th> <th>DEC</th> <th>EIA</th> </tr> <tr> <td>D672</td> <td>1N3653</td> <td></td> <td></td> </tr> <tr> <td>MR2064</td> <td>IN4001</td> <td></td> <td></td> </tr> <tr> <td>2N3715</td> <td>NONE</td> <td></td> <td></td> </tr> <tr> <td>2N4923</td> <td>NONE</td> <td></td> <td></td> </tr> <tr> <td>DEC6534B</td> <td>MPS6534</td> <td></td> <td></td> </tr> </table>	DEC	EIA	DEC	EIA	D672	1N3653			MR2064	IN4001			2N3715	NONE			2N4923	NONE			DEC6534B	MPS6534			digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE DUAL MOTOR VOLTAGE CONTROL G847 SIZE B CODE CS NUMBER G847-0-1 REV. A PRINTED CIRCUIT REV. C
DEC	EIA	DEC	EIA																										
D672	1N3653																												
MR2064	IN4001																												
2N3715	NONE																												
2N4923	NONE																												
DEC6534B	MPS6534																												

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UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 5%
DIODES ARE D672
TRANSISTORS ARE 2N4923
□ INDICATES SOCKET PIN
AT HANDLE END OF CARD

REVISIONS	CHK	CHK NO.	REV.
1	A	000001	A
2	B	000002	B
3	C	000003	C
4	D	000004	D
5	E	000005	E
6	F	000006	F

DEC FORM NO. DRC 102

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

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D672	IN4953	2N4920	SAME
IN4001	SAME	2N4923	SAME
IN4997	SAME	MPS6531	SAME
DEC3715	2N3715	DEC6534D	MPS6534
2N3791	SAME		

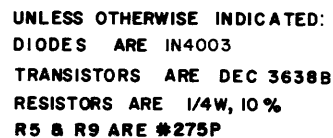
digital		EQUIPMENT CORPORATION		MAYNARD, MASSACHUSETTS	
SIZE	C	CODE	CS	NUMBER	G848-0-1
REV	F	PRINTED CIRCUIT REV.	L		

REV. F
NUMBER G848-0-1
SIZE CODE C CS

VS 499-PR

324 434 435 PINK

SIZE	B	CS	6850-0-1	REV	P
------	---	----	----------	-----	---

[illegible]DEC FORM NO.
DRB 102

PINK

5

DIST.

324

4	43
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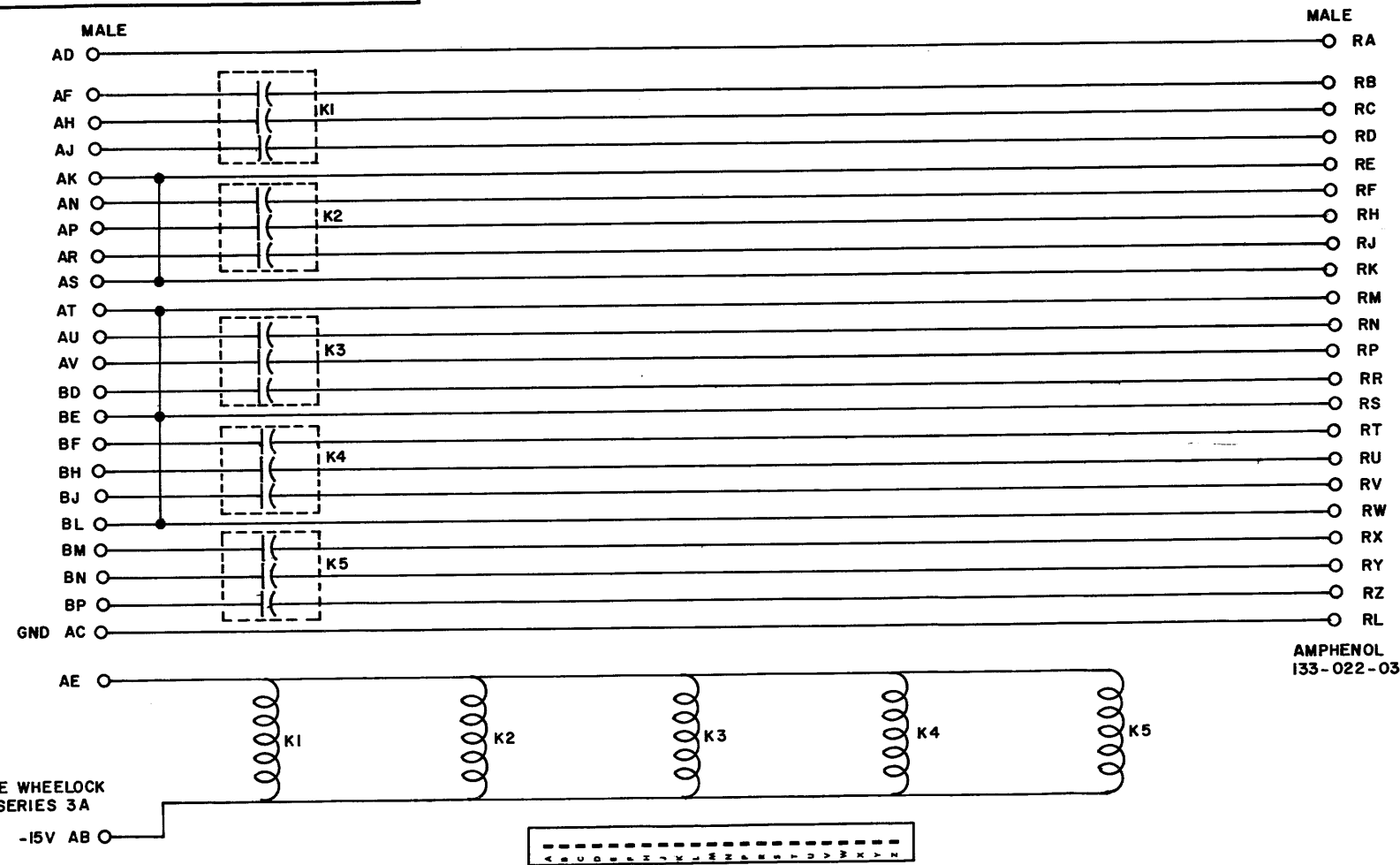
4	4
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35



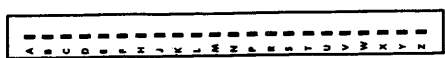
B	REV.	6851-0-1	NUMBER	B	CS	SIZE
---	------	----------	--------	---	----	------

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NOTE:
RELAYS ARE WHEELLOCK
REED, 260 SERIES 3A
12V DC

-15V AB



REVISIONS	CHK	CHG	NO.	REV.
DAW	4813	1		
REV	8	REDR.		
DAW	5196	B		

DRN.	H.W. PORTER	DATE	1-13-65
CHK'D	N. PERRYMAN	DATE	1-25-65
ENG.	D. WARDIMAN	DATE	1-25-65
PROD.		DATE	

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

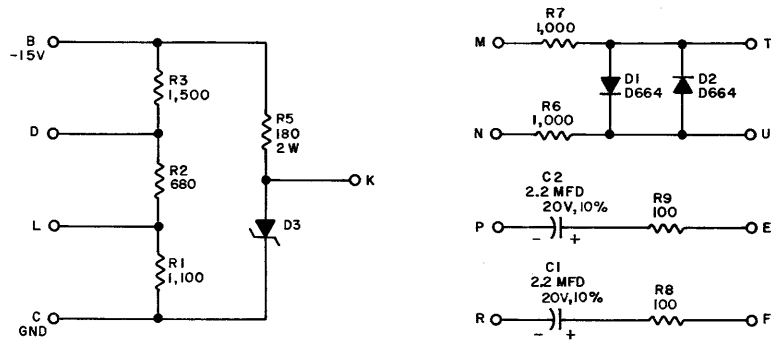
digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE RELAY G851			
SIZE	CODE	NUMBER	REV.
B	CS	6851-0-1	B
PRINTED CIRCUIT REV.			B



B CS G853-0-1
 A REV NUMBER

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 COPYRIGHT 1967 BY DIGITAL EQUIPMENT CORPORATION

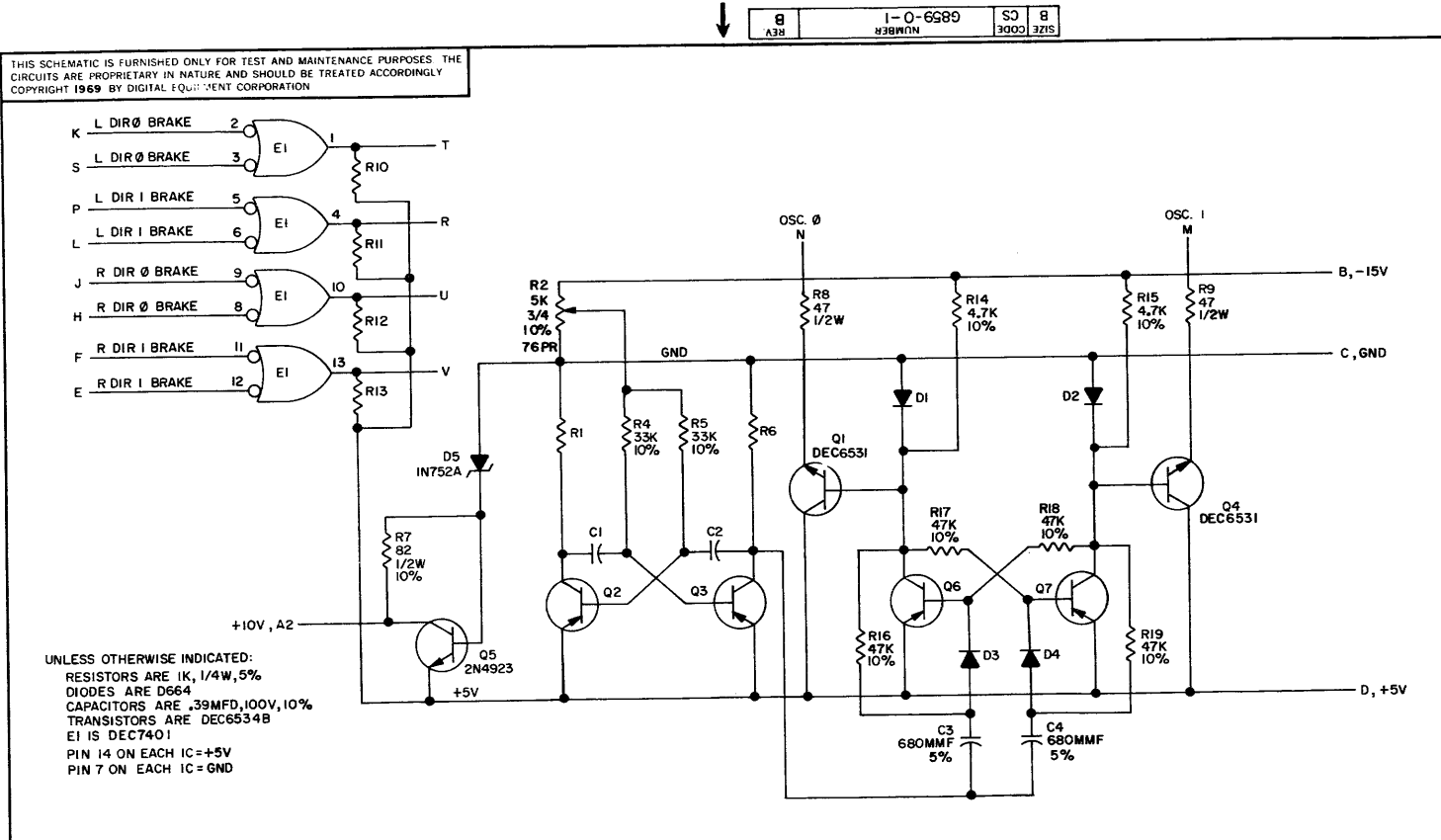


UNLESS OTHERWISE INDICATED:
 RESISTORS ARE 1/4 W, 5%
 D3= IN758A

REVISIONS CHK CHG NO REV 1 00001 A		DRN <i>M. Waller</i> DATE 7-5-67	TRANSISTOR & DIODE CONVERSION CHART <table border="1"> <tr> <th>DEC</th> <th>EIA</th> <th>DEC</th> <th>EIA</th> </tr> <tr> <td>D664</td> <td>IN3606</td> <td></td> <td></td> </tr> <tr> <td>IN758A</td> <td>SAME</td> <td></td> <td></td> </tr> </table>		DEC	EIA	DEC	EIA	D664	IN3606			IN758A	SAME			TITLE MOTION 8 SELECTION CIRCUIT G853
DEC	EIA	DEC	EIA														
D664	IN3606																
IN758A	SAME																
DEC FORM NO. DRB 102		DATE 7/1/67 PROD.	EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		SIZE CODE NUMBER B CS G853-0-1 PRINTED CIRCUIT REV. A												

DIST 324.424 4 53 PINK

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REV. 8 1-0-6589 CS 8
 NUMBER

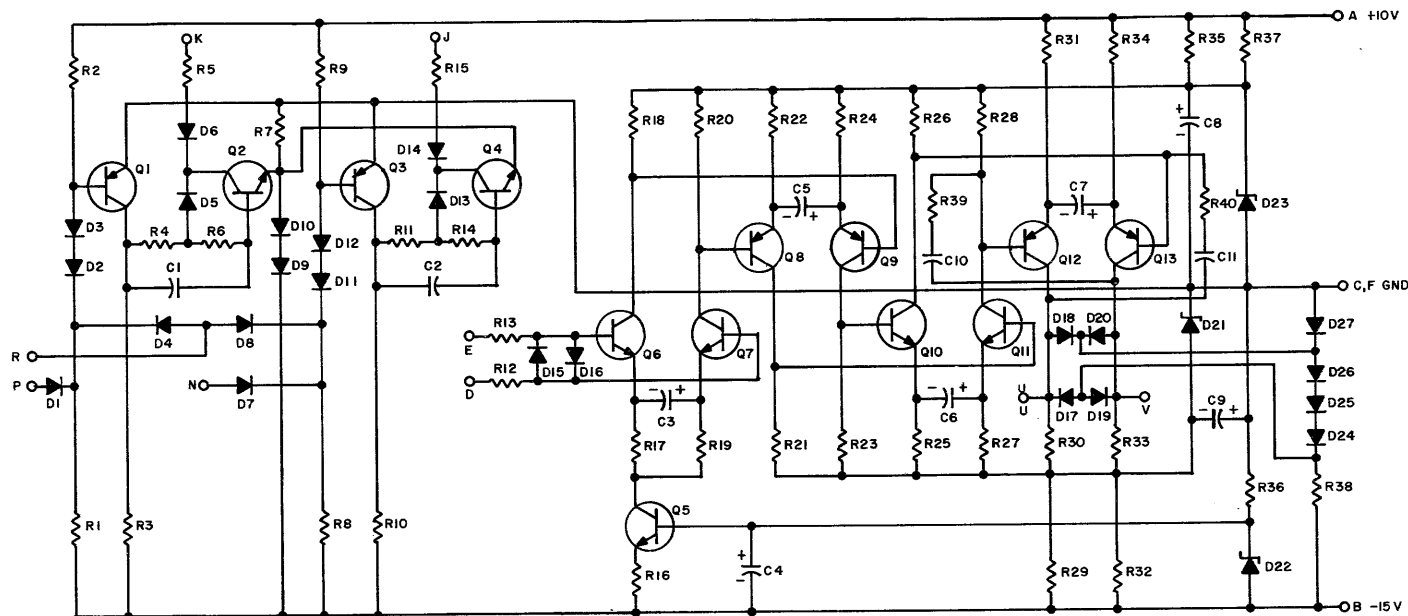
REVISIONS		CHK'D	DATE	TRANSISTOR & DIODE CONVERSION CHART		TITLE	
1	00001	1/13/69	1/13/69	DEC	EIA	CLOCK & REGULATOR G859	
2	00002	1/14/69	1/14/69	D664	IN3606	SIZE	CODE
3	00003	1/14/69	1/14/69	DEC6534B	MPS6534B	NUMBER	REV
4	00004	1/14/69	1/14/69	DEC6531	MPS6531	G859-0-1	B
5	00005	1/14/69	1/14/69	2N4923	SAME	PRINTED CIRCUIT REV.	
DRN. BUTLER				DIGITAL EQUIPMENT CORPORATION		MAYNARD, MASSACHUSETTS	

DEC FORM NO. DRB 102

DIS. 324, 134, 435

5 PINK

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Q8, Q9, Q12, Q13	TRANSISTOR DEC3638B	1502979
Q6, Q7, Q10, Q11	TRANSISTOR DEC3009B-S	1503100
Q5	TRANSISTOR DEC3009A-S	1501999
Q2, Q4	TRANSISTOR DEC3500-S	1503209
Q1, Q3	TRANSISTOR DEC2894-3B-S	1503099
R39	RES. 120 1/4W 5% CC	1300247
R36, R38	RES. 470 1/2W 10% CC	1300318
R30, R33	RES. 3K 1/4W 5% CC	1300432
R17 THRU R21, R23, R25 THRU R28	RES. 220 1/4W 5% CC	1300271
R12, R13	RES. 560 1/4W 5% CC	1301890
R6, R14, R35, R37	RES. 68 2W 5% CC	1302308
R5, R15	RES. 750 1/4W 5% CC	1301401
R4, R11	RES. 1.5K 1/4W 5% CC	1300391
R3, R7, R10, R16, R22, R24, R29, R31, R32, R34	RES. 100K 1/4W 5% CC	1302466
R2, R9	RES. 7.5K 1/4W 5% CC	1301422
R1, R8	DIODE 1/4M 6.8AZ	1100102
D23	DIODE IN748 3.9V	1100121
D22	DIODE IN756A 8.2V	1103441
D21	DIODE D670	1102162
D5, D6, D13, D14	DIODE D662	1100113
D2, D3, D11, D12, D24 THRU D27	DIODE D664	1100114
D1, D4, D7 THRU D10, D15 THRU D20	CAP. 1.200MMF 100V 5% D.M.	1002430
C10, C11	CAP. 2.2MFD 20V 10%	1002627
C5	CAP. 3.9MFD 10V 10% S.TANT	1000064
C4, C6, C7, C8, C9	CAP. .47MFD 20V 10% S.TANT	1005965
C3	CAP. 680MMF 100V 5% D.M.	1000026
C1, C2	PARTS LIST	A-PL-6882-O-O
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

REV.	CHG	NO.	REV.
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

DRN.	DATE
A. JUELLETTE	2-9-66
CHK'D	
R. SILVERMAN	2-9-66
ENG.	
R. SOOKE	2-9-66
PROD.	

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3638B	2N3638	D662	IN645
DEC3009B-A	2N3009	D664	IN3606
1/4M 6.8AZ	IN4099	D670	IN3653
DEC3500	2N3500	IN756A	SAME
DEC2894-3B	NONE	IN748	SAME

digital		TITLE MANCHESTER READER WRITER G882	
EQUIPMENT CORPORATION	SIZE C	CODE CS	NUMBER G882-O-1
MAYNARD, MASSACHUSETTS	PRINTED CIRCUIT REV.	B	REV. D

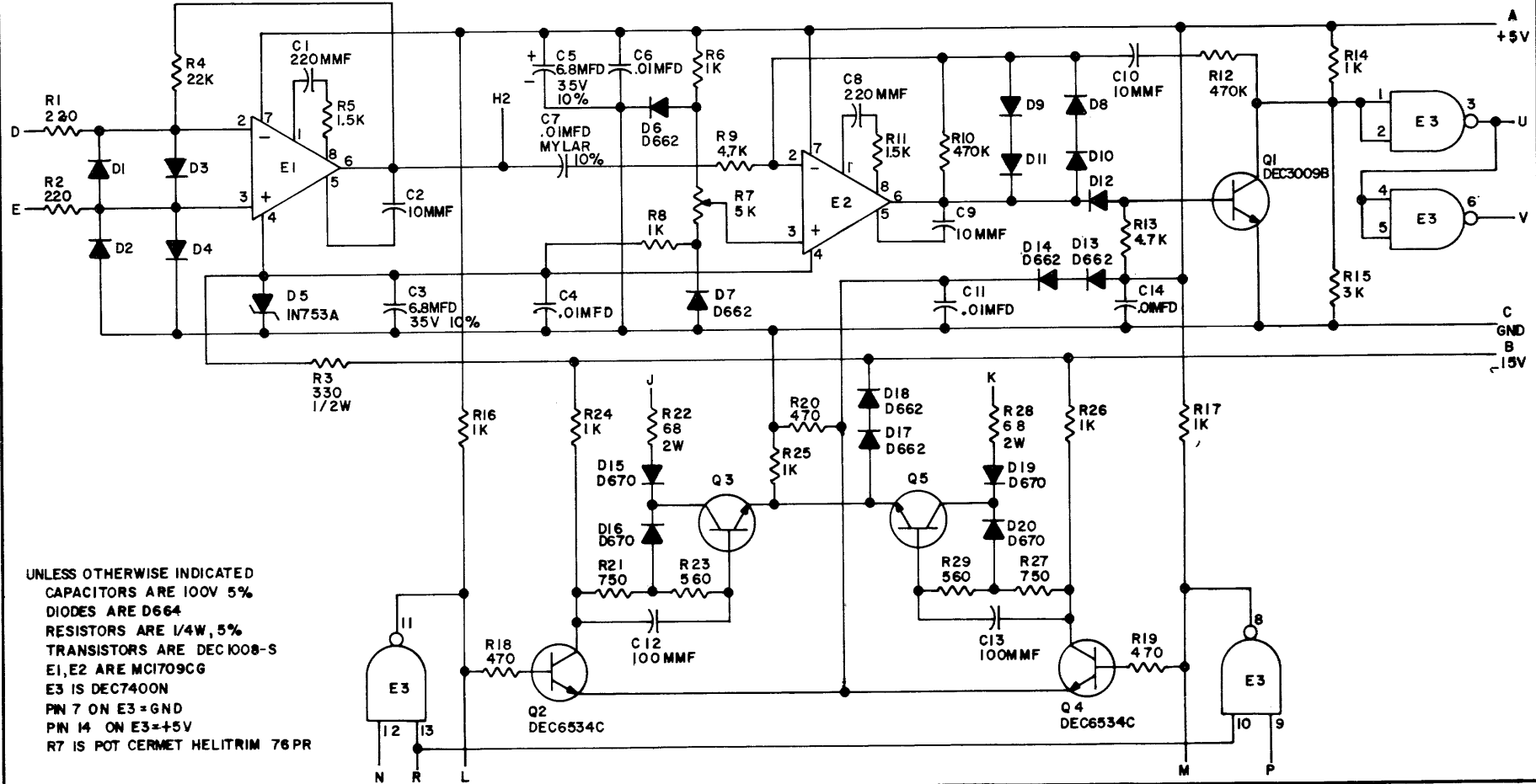
DEC FORM NO. DEC 102

PINK

DIST. 324 434 434 434

REV. D
NUMBER
G882-O-1

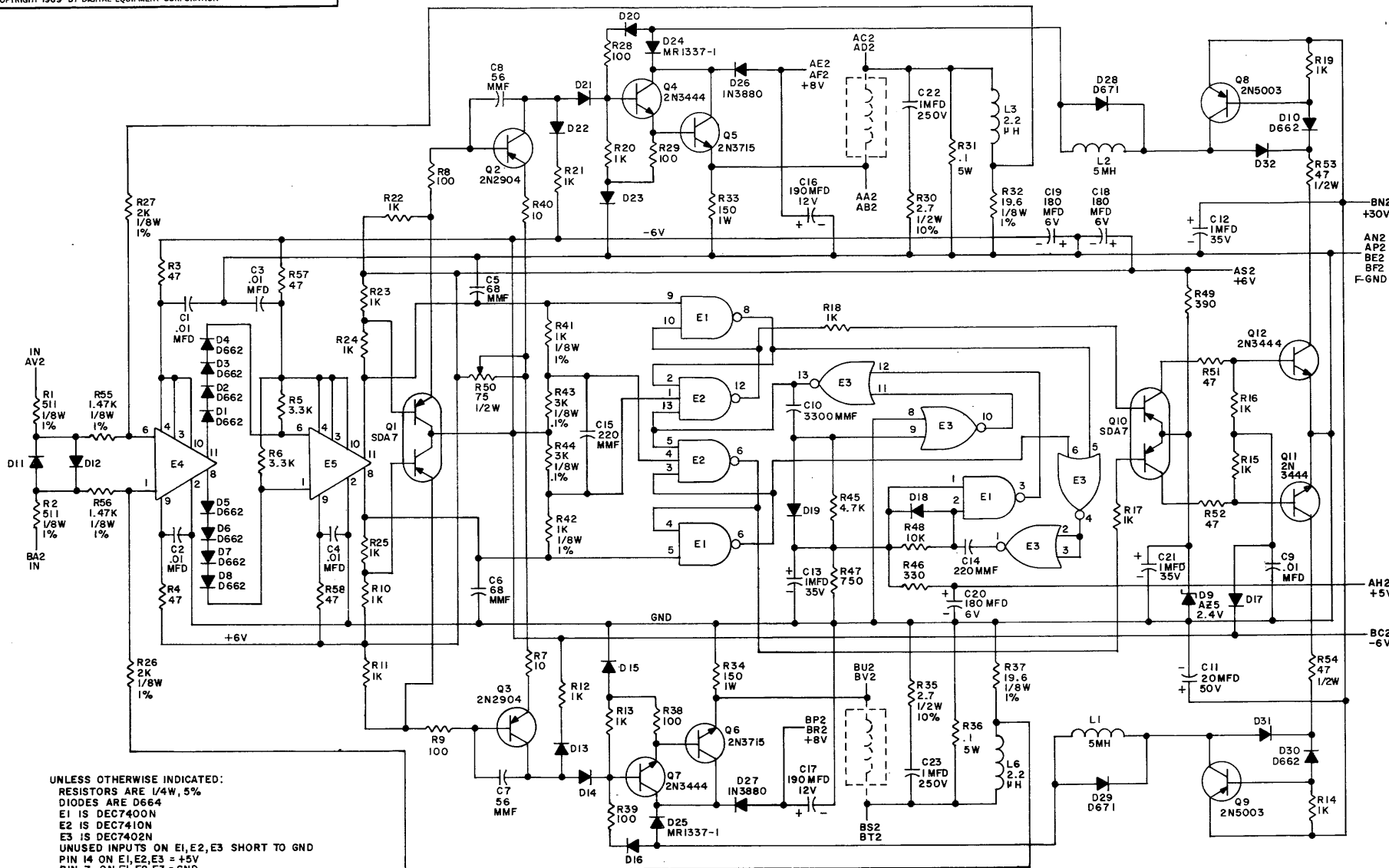
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UNLESS OTHERWISE INDICATED
CAPACITORS ARE 100V 5%
DIODES ARE D664
RESISTORS ARE 1/4W, 5%
TRANSISTORS ARE DEC1008-S
E1, E2 ARE MC1709CG
E3 IS DEC7400N
PIN 7 ON E3 = GND
PIN 14 ON E3 = +5V
R7 IS POT CERMET HELITRIM 76PR

REVISIONS CHK CHG NO REV.			DRN.	DATE	TRANSISTOR & DIODE CONVERSION CHART				digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE MANCHESTER READER/WRITER G888																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
			CHK'D	DATE	DEC		EIA			SIZE	CODE	NUMBER	REV.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
			ENG.	DATE	DEC1008-S		MM1008			B	CS	G888-0-1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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						D664	IN3606																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															</

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UNLESS OTHERWISE INDICATED:
 RESISTORS ARE 1/4W, 5%
 DIODES ARE D664
 E1 IS DEC7400N
 E2 IS DEC7410N
 E3 IS DEC7402N
 UNUSED INPUTS ON E1, E2, E3 SHORT TO GND
 PIN 14 ON E1, E2, E3 = +5V
 PIN 7 ON E1, E2, E3 = GND
 E4, E5 ARE CA3001
 DEFLECTION YOKE IS SHOWN DOTTED
 PINS AE2, AF2 ARE CONNECTED TO BP2, BR2
 WHEN BOARD IS PLUGGED INTO UNIT

REV. 1	DATE 6-10-69	DESIGNED BY M. Keller	2N2904	SAME
CHK'D BY J. Varga	DATE 6-19-69	DATE 6-19-69	DEC	EIA
ENG'D BY J. Varga	DATE 6-19-69	DATE 6-19-69	D662	IN645
PRO'D BY J. Varga	DATE 6-19-69	DATE 6-19-69	D664	IN3606
			D671	IN3653
			IN3880	SAME
			MR1337-1	NONE

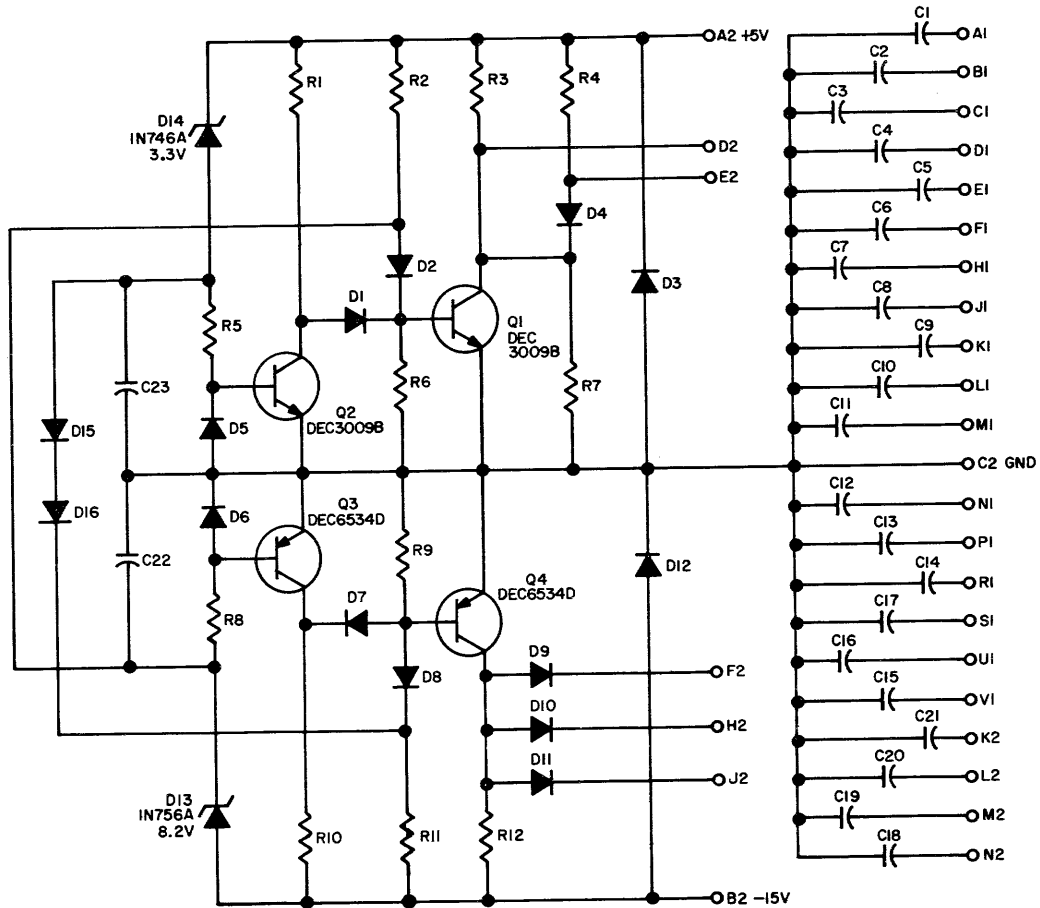
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
2N3715	NONE	2N3715	NONE
SDA 7	SAME	SDA 7	SAME
2N3444	NONE	2N3444	NONE
2N5003	NONE	2N5003	NONE
AE2 2.4V	NONE	AE2 2.4V	NONE

TITLE		DEFLECTION AMPLIFIER	
G912		G912-0-1	
SIZE	CODE	NUMBER	REV.
C	CS	G912-0-1	B

PRINTED CIRCUIT REV. 1

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UNLESS OTHERWISE INDICATED:
DIODES ARE D664
CAPACITORS ARE .01MFD
RESISTORS ARE 2K, 1/4W, 5%

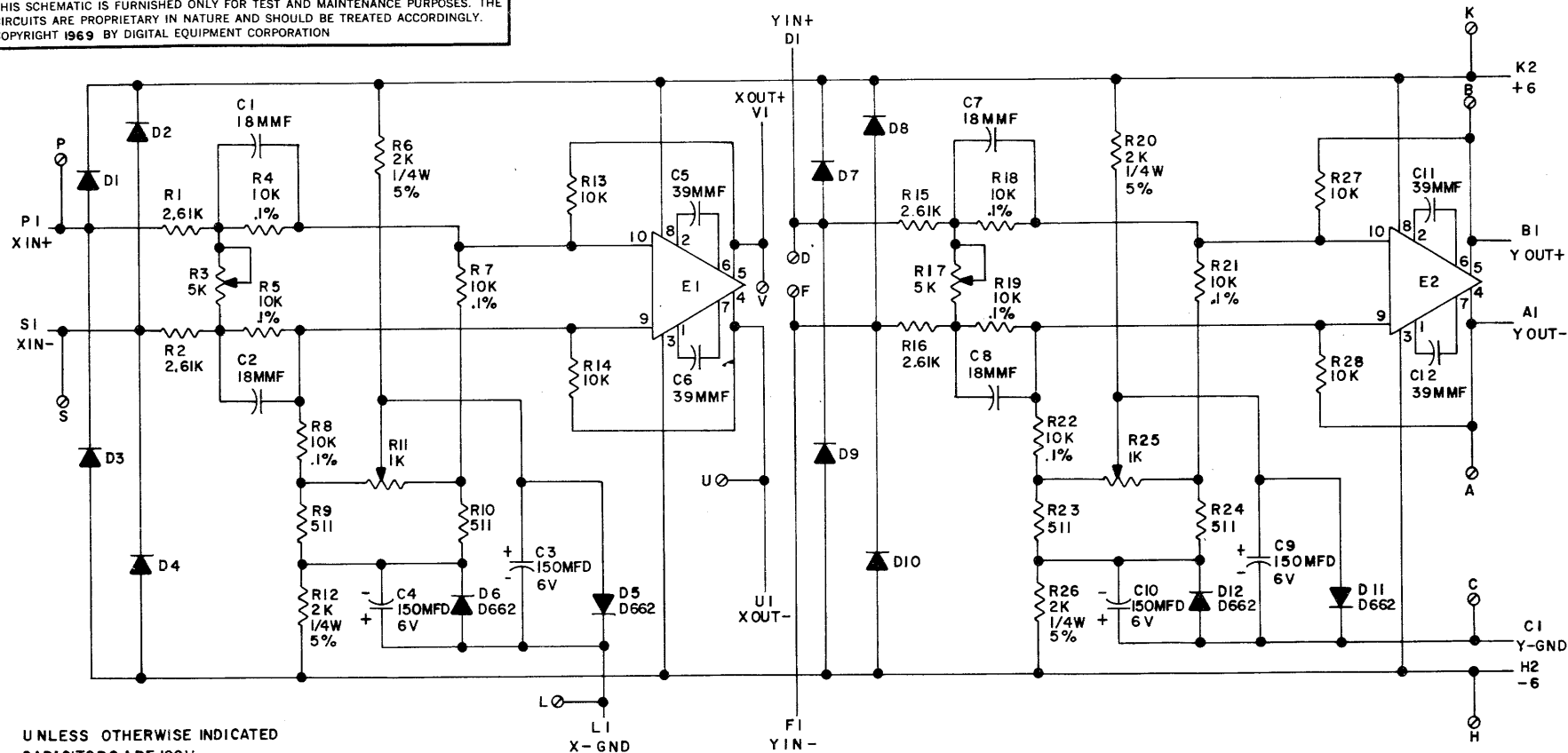


REV. 1-0-1
NUMBER 6916-0-1
CS B
SIZE 3

REVISIONS		DRN. BUTLER	DATE 4/25/69	TRANSISTOR & DIODE CONVERSION CHART				 digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE POWER DETECTOR AND SWITCH FILTER G916			
CHK'D	NO	DATE 5-5-69	DEC	EIA	DEC	EIA	SIZE B		CODE CS	NUMBER	REV.	
ENG.	R. Schweitzer	DATE 6/16/69	DEC3009B	2N3009B								
PRD.	R. Schweitzer	DATE 6/16/69	DEC6534D	MP56534								
				D664	IN3606			PRINTED CIRCUIT REV. A				

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REV. NUMBER G917-0-1



UNLESS OTHERWISE INDICATED
CAPACITORS ARE 100V
DIODES ARE D 664
E1, E2 ARE MC1520G OP-AMP
R3, R17 ARE ASM 6666
R11, R25 ARE ASM 6664
RESISTORS ARE 1/8W, 1%

REVISIONS
CHK CHG NO. REV.

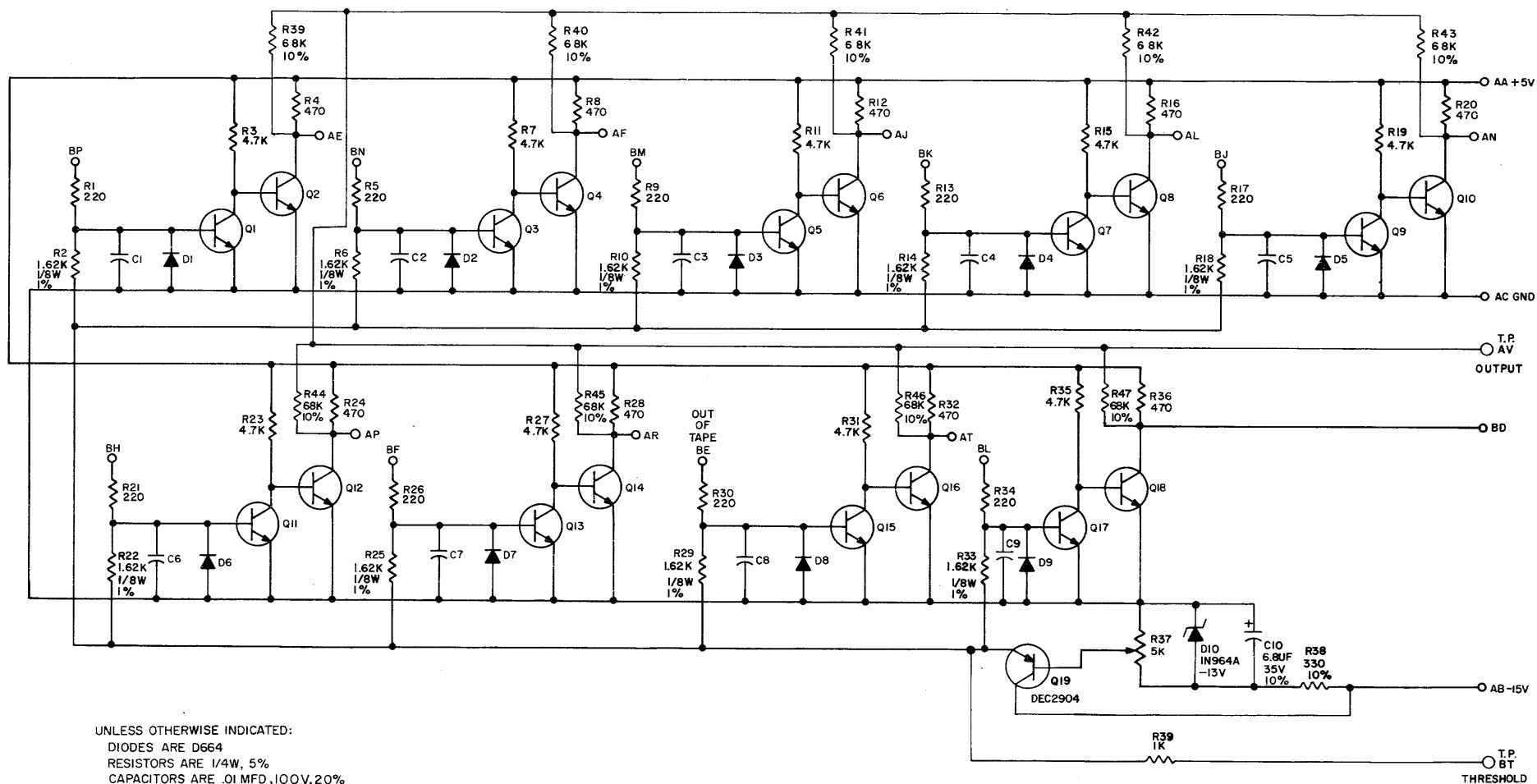
DRN. *6-6-68*
DATE *6-6-68*
CHK'D *6-12-67*
DATE *6-12-67*
ENG. *6-12-67*
DATE *6-12-67*
PROD. *8-7-69*
DATE *8-7-69*

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D 662	1N645		
D 664	1N3606		

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE XY-CONTROL
G917
SIZE B CODE CS NUMBER G917-0-1 REV.
PRINTED CIRCUIT REV. A

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UNLESS OTHERWISE INDICATED:
 DIODES ARE D664
 RESISTORS ARE 1/4W, 5%
 CAPACITORS ARE .01 MFD, 100V, 20%
 TRANSISTORS ARE 2N3646
 ○ INDICATES TEST POINT

REVISIONS	CHK	CHG	NO	REV.
1	00001	A	00002	00003
2	00002	B	00003	00004

DEC FORM NO. DRC 102

DRN	DATE
CHKD	DATE
ENG	DATE
PROD.	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
2N3646	2N3009	IN964A -13V	SAME
D664	IN3606	DEC2904	2N1132

digital
 EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

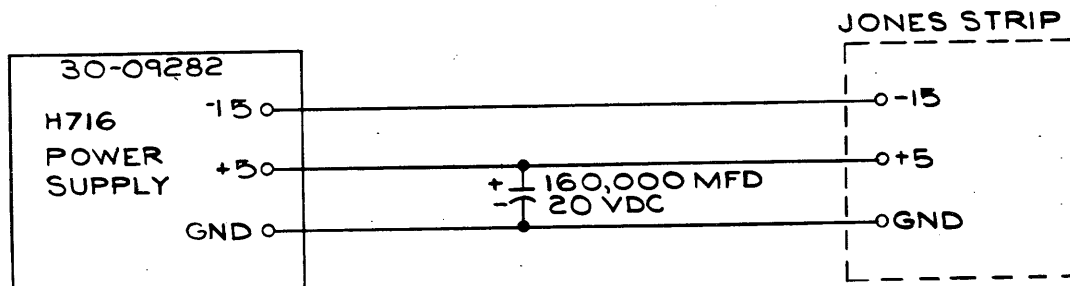
TITLE		PHOTO TRANSISTOR AMPLIFIER G918	
SIZE	CODE	NUMBER	REV.
C	CS	G918-0-1	B
PRINTED CIRCUIT REV.		D	

SIZE CODE NUMBER REV.
 C CS G918-0-1 B

DIST. 324,474 J2

REV.	1	0-612H	CS	B	SIZE
NUMBER			CODE		

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REVISIONS
CHK (CHG NO. REV.)

DRN.	<i>P. Ferguson</i>	DATE	4-29-69
CHK'D	<i>W. Ferguson</i>	DATE	3-8-69
ENG.		DATE	
PROD.	<i>W. Ferguson</i>	DATE	4-6-69

TRANSISTOR & DIODE CONVERSION CHART

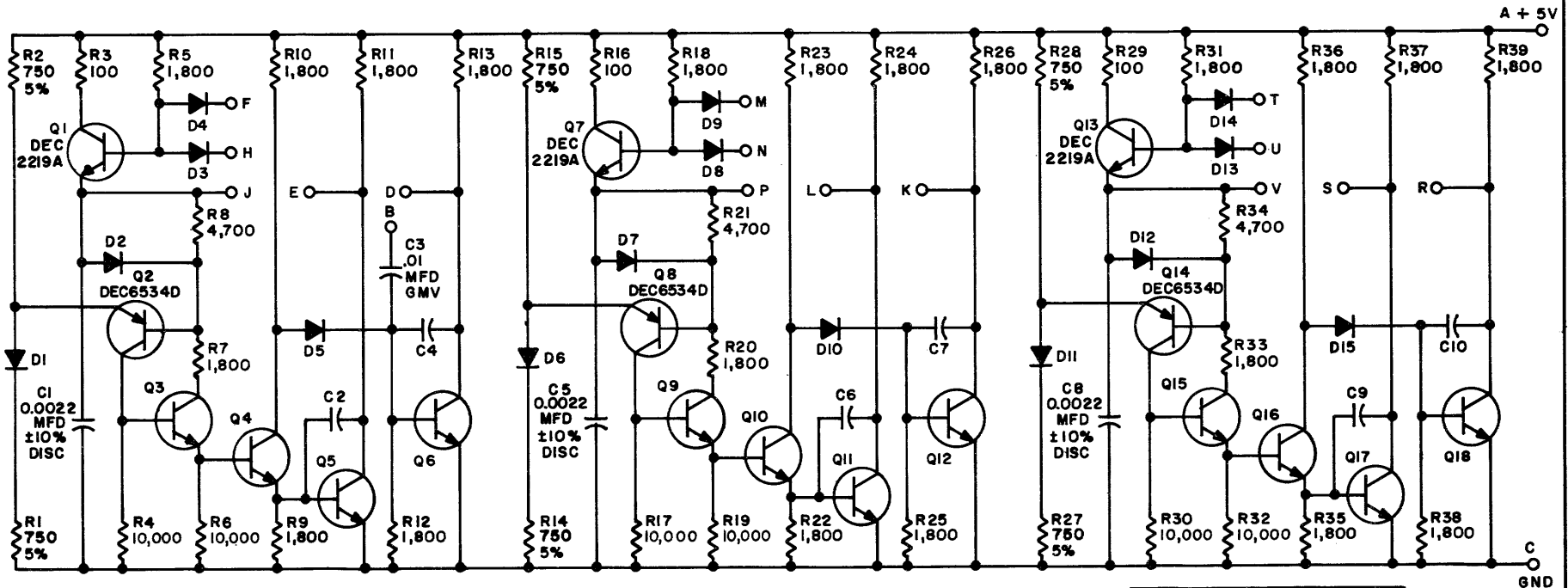
DEC		EIA	

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

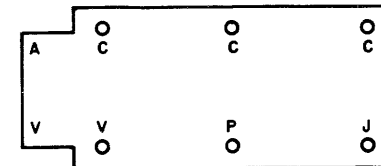
TITLE			
H719 P.S.			
SIZE	CODE	NUMBER	REV.
B	CS	H719-0-1	
PRINTED CIRCUIT REV.			

SIZE CODE B CS
NUMBER K303-0-1
REV C

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UNLESS OTHERWISE INDICATED:
TRANSISTORS ARE DEC1
DIODES ARE D600
RESISTORS ARE 1/4W, 10%
CAPACITORS ARE 680 MMFD $\pm 10\%$
ERIE 309 OR EQUIV.



VIEWS FROM ETCHED SIDE

PARTS LIST IS A-PL- K303-0-0

REVISIONS CHK CHG NO. REV. B 6437 100001 C				DRN. M. Haller DATE 4-18-67 CHK'D R. Johnson DATE 9/20/67 ENG. R. Poma DATE 4/27/67 PROD. I		TRANSISTOR & DIODE CONVERSION CHART <table border="1"> <tr> <th>DEC</th> <th>EIA</th> <th>DEC</th> <th>EIA</th> </tr> <tr> <td>DEC1</td> <td>2N3721</td> <td></td> <td></td> </tr> <tr> <td>DEC6534D</td> <td>MP86534</td> <td></td> <td></td> </tr> <tr> <td>D600</td> <td>IN4009</td> <td></td> <td></td> </tr> <tr> <td>DEC2219A</td> <td>2N2219</td> <td></td> <td></td> </tr> </table>				DEC	EIA	DEC	EIA	DEC1	2N3721			DEC6534D	MP86534			D600	IN4009			DEC2219A	2N2219			digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		TITLE THREE TIMERS K303 SIZE B CODE CS NUMBER K303-0-1 REV. C PRINTED CIRCUIT REV. B	
DEC	EIA	DEC	EIA																														
DEC1	2N3721																																
DEC6534D	MP86534																																
D600	IN4009																																
DEC2219A	2N2219																																

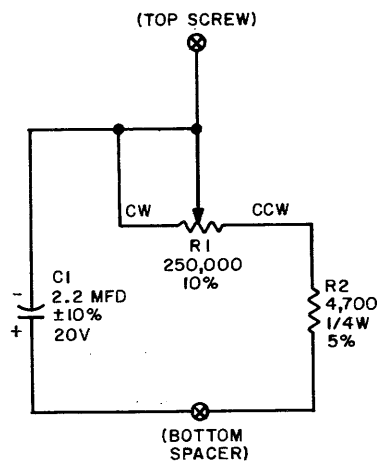
DEC FORM NO. DRB 102

DIST: 324, 434, 435

PINK

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REV. A
NUMBER K374-0-1
SIZE B
CODE CS



UNLESS OTHERWISE INDICATED:
R1 IS ALLEN-BRADLEY TSRA2541
MODIFIED CLOCKWISE LOG TAPER
C1 IS A SPRAGUE 150D225X9020A2 OR EQUIV.

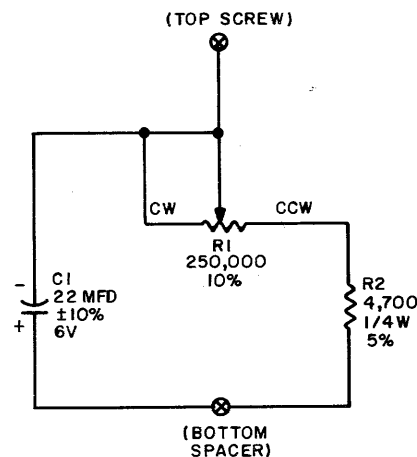
REVISIONS	CHK	CHG NO.	REV.	
	W	00001	A	

DRN.	DATE	TRANSISTOR & DIODE CONVERSION CHART	
M. Waller	5-4-67	DEC	EIA
CHK'D	DATE	DEC	EIA
E. J. Brennan	5/5/67		
ENG.	DATE		
D. P. P.	5/22/67		
PROD.	DATE		

digital		TITLE CALIBRATED TIMER CONTROL K374	
SIZE B	CODE CS	NUMBER K374-0-1	REV. A
EQUIPMENT CORPORATION		PRINTED CIRCUIT REV. A B C	
MAYNARD, MASSACHUSETTS			

REV. A
NUMBER K376-0-1
SIZE B
CODE CS

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UNLESS OTHERWISE INDICATED:
R1 IS ALLEN-BRADLEY TSRA2541
MODIFIED CLOCKWISE LOG TAPER
C1 IS SPRAGUE 150D226X9006A2 OR EQUIV.

REVISIONS	CHK	CHG NO.	REV.
		00001	A

DRN.	DATE
M. Waller	5-4-67
CHK'D	DATE
R. J. Sullivan	5/5/67
ENG.	DATE
R. J. Sullivan	5/22/67
PROD.	DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

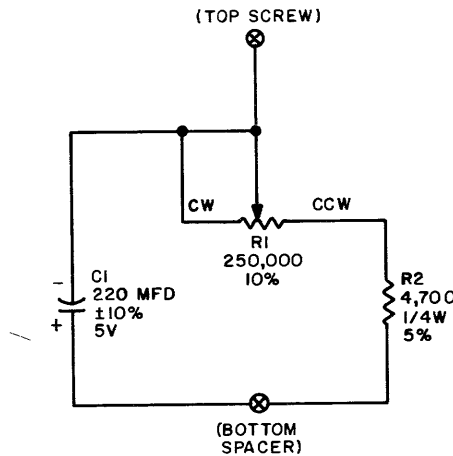
digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE CALIBRATED TIMER
CONTROL K376

SIZE	CODE	NUMBER	REV.
B	CS	K376-0-1	A
PRINTED CIRCUIT REV.			B/C

REV.	A	NUMBER	K378-0-1	SIZE	B	CODE	CS
------	---	--------	----------	------	---	------	----

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UNLESS OTHERWISE INDICATED:
 R1 IS ALLEN-BRADLEY TSRA2541
 MODIFIED CLOCKWISE LOG TAPER
 CI IS SPRAGUE 130D227X9005F0 OR EQUIV.

REVISIONS	CHK	CHG	NO.	REV.
			00001	A

DRN.	DATE
<i>M. Waller</i>	5-9-67
CHK'D	DATE
<i>P. Schuman</i>	5/15/67
ENG.	DATE
<i>P. Doane</i>	5/22/67
PROD.	DATE

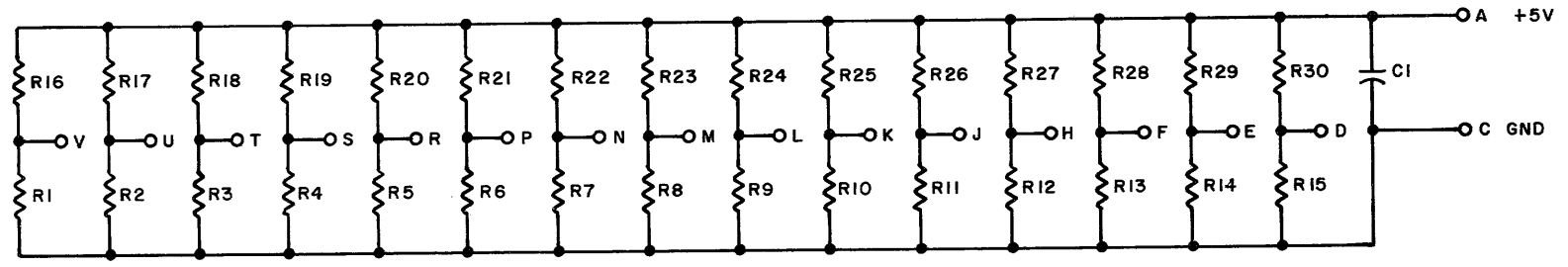
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital
 EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

TITLE										CALIBRATED TIMER CONTROL K378									
SIZE		CODE		NUMBER								REV.							
B		CS		K 378-0-1								A							
PRINTED CIRCUIT REV.										B	C								

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REV. NUMBER B CS MO02-0-1



< 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 >

R16 - R30	RES. 1.8K 1/4W 10% CC	1301428
R1 - R15	RES. 3.3K 1/4W 5% CC	1300439
C1	CAP. .01MFD 100V 20% DISC	1001610
PARTS LIST		A-PL-M002-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.
PARTS LIST		

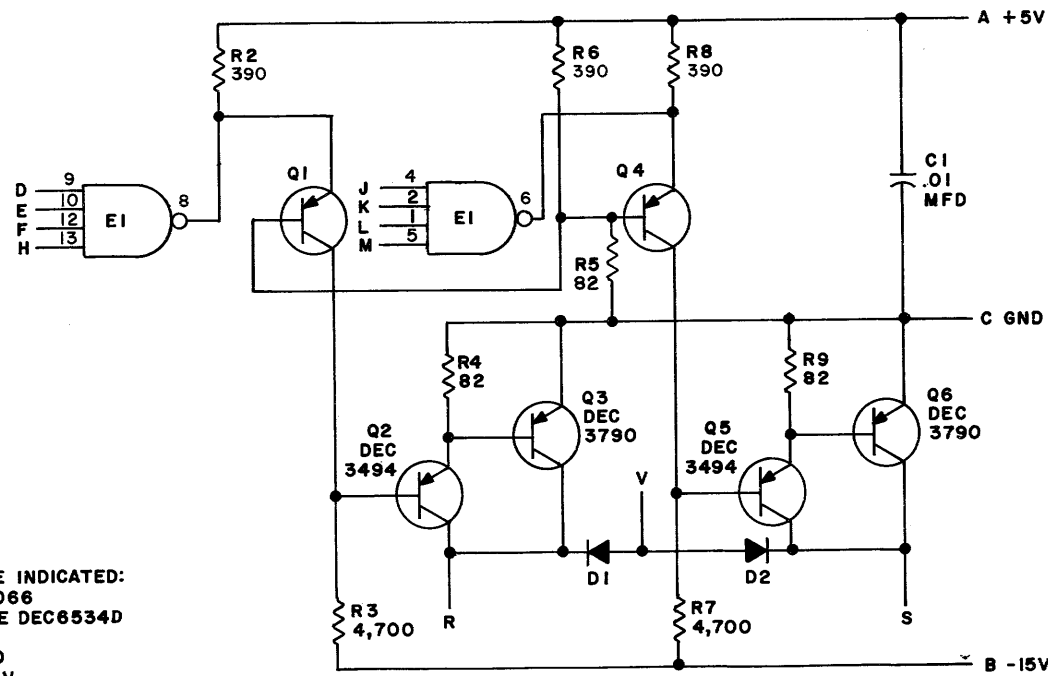
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	CHK'D <i>M. Walker</i>	DATE 6/26/68	DEC	EIA	DEC	EIA		SIZE B	CODE CS	NUMBER MO02-0-1	REV.
	ENG. <i>M. Walker</i>	DATE 7/8/68									
	PROD.	DATE									

PINK

DIST. 324 4/31 4/35

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REV. E
NUMBER M040-0-1
SIZE B
CODE CS

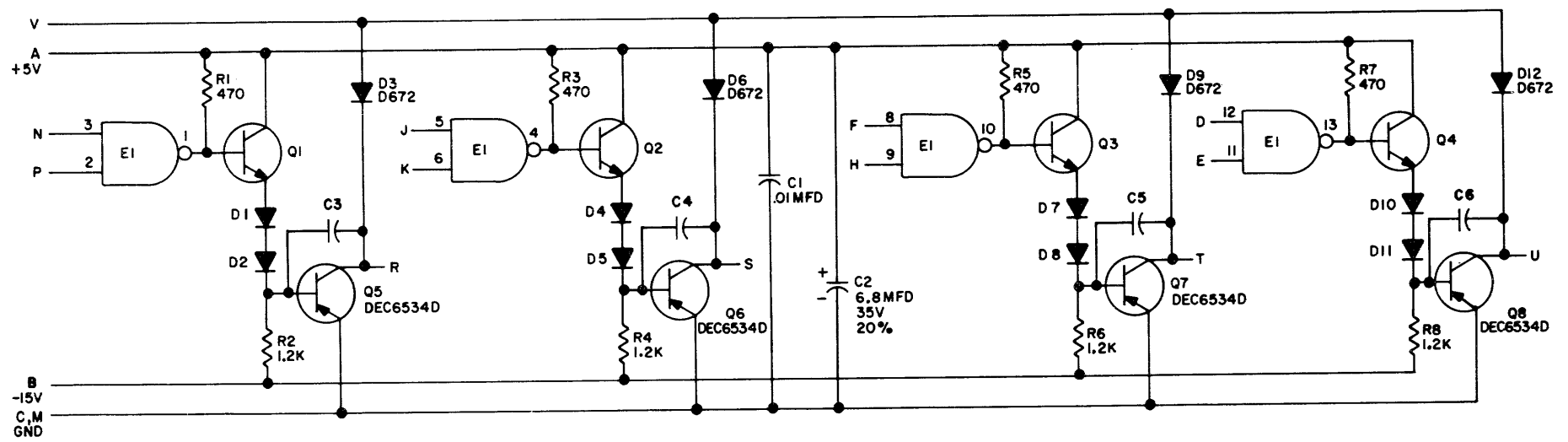


UNLESS OTHERWISE INDICATED:
DIODES ARE MR2066
TRANSISTORS ARE DEC6534D
E1 IS DEC7420N
PIN 7 ON IC = GND
PIN 14 ON IC = +5V
RESISTORS ARE 1/4 W, 10%

PARTS LIST A-PL-M040-0-0

REVISIONS		DRN.	DATE	TRANSISTOR & DIODE CONVERSION CHART		digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE		
CHK	CHG NO.	REV.		DEC	EIA		SIZE	CODE	NUMBER
	00001	E		DEC3494	SAME		B	CS	M040-0-1
	00002			DEC3790	2N3790				
		CHK'D	DATE	DEC6534D	MPS6534	PRINTED CIRCUIT REV.		REV.	
		ENG	DATE	D662	IN645			E	
		PROD.	DATE	MR2066	IN4003				

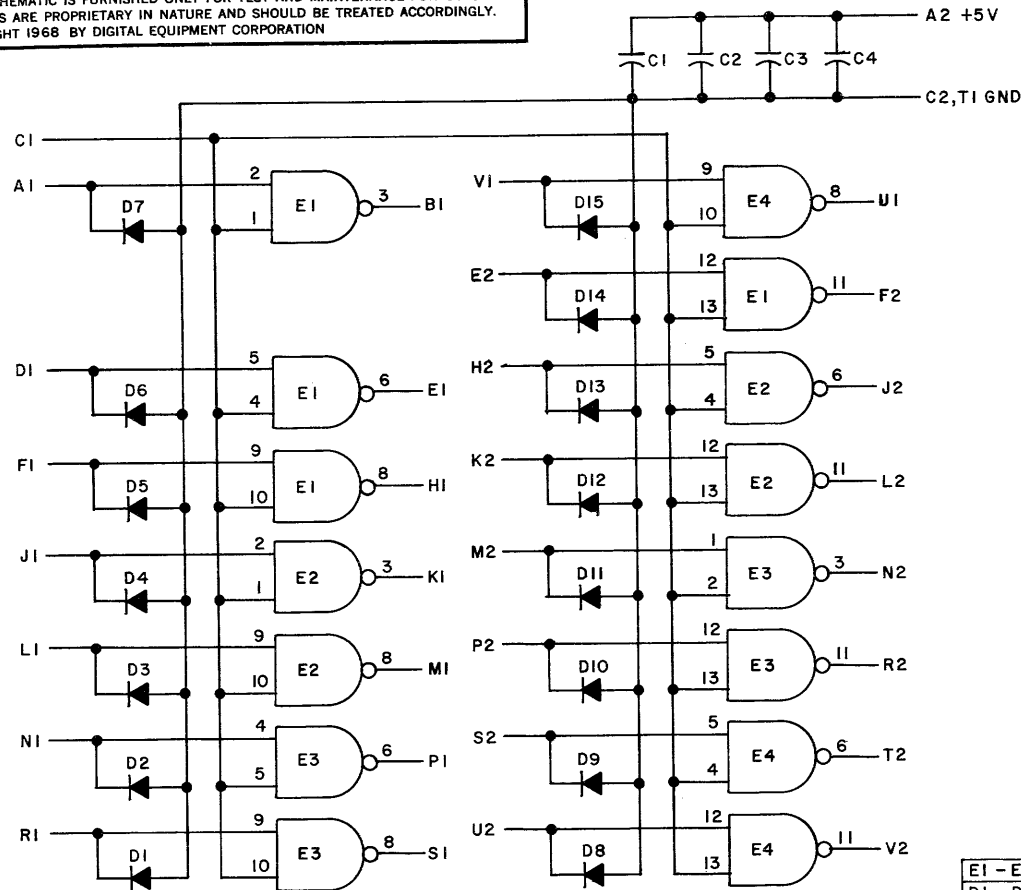
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UNLESS OTHERWISE INDICATED:
 RESISTORS ARE 1/4W, 10%
 DIODES ARE D664
 EI IS DEC7401N
 TRANSISTORS ARE DEC3009B
 PIN 7 ON EACH IC = GND
 PIN 14 ON EACH IC = +5V
 CAPACITORS ARE 100pf, 100V, 5%

REVISIONS CHG NO. REV. 00001 B	DRN. <i>Botler</i>	DATE 6/23/68	TRANSISTOR & DIODE CONVERSION CHART				digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE 4-100MA SOLENOID DRIVER MO44			
	CHK'D <i>R. A. Helt</i>	DATE 6/24/68	DEC D664	EIA IN3606	DEC DEC6534D	EIA MPS6534		SIZE B	CODE CS	NUMBER MO44-0-1	REV. B
	ENG. <i>R. A. Helt</i>	DATE 7/13/69	DEC DEC3009B	EIA 2N3009							
	PROD.	DATE									

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E1 - E4	INTEGRATED CKT. DEC7400N	1905575
D1 - D15	DIODE D664	1100114
C1 - C4	CAP. .01MFD 100V 20% DISC	1001610
	PARTS LIST	A-PL-M101-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

PARTS LIST

REVISIONS	CHK	CHG	NO.	REV.

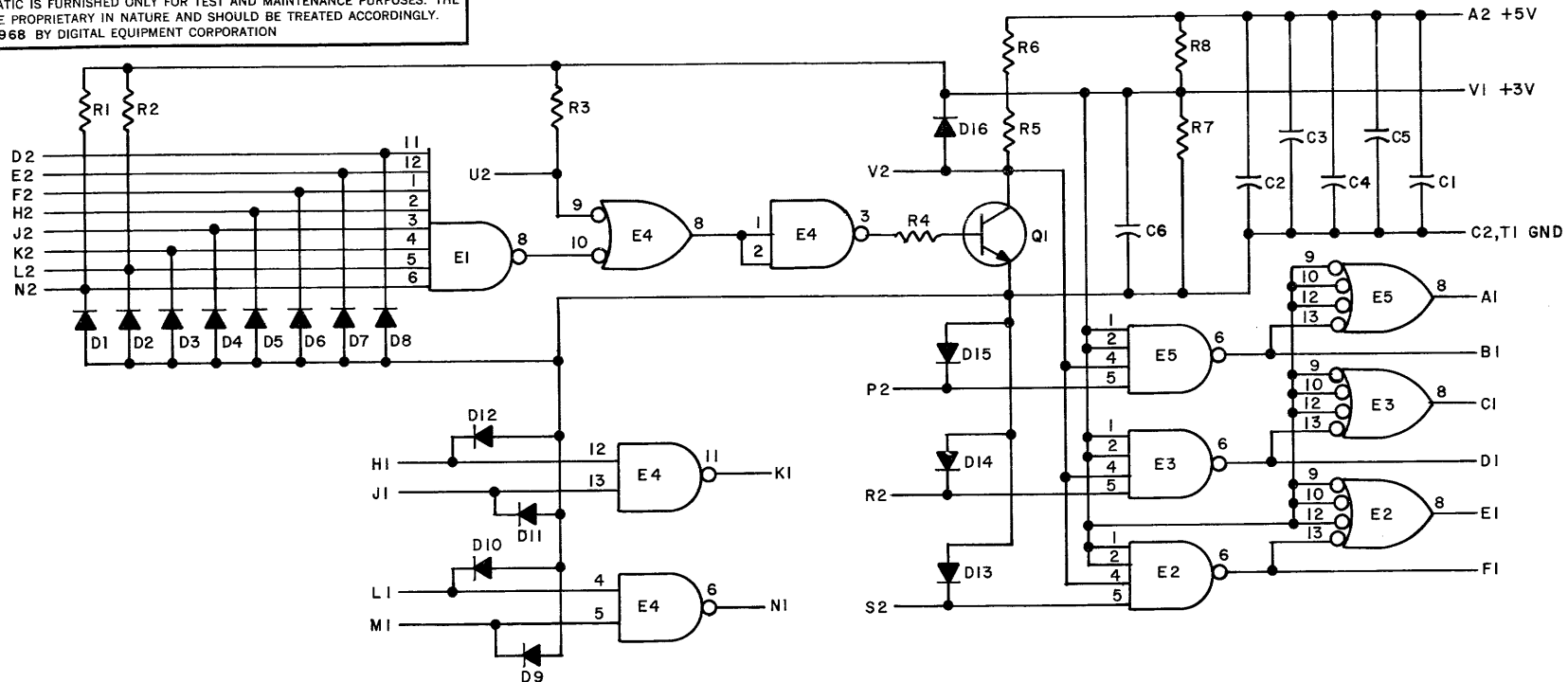
DRN.	<i>M. Haller</i>	DATE	8-5-68
CHK'D	<i>M. Haller</i>	DATE	8-6-68
ENG.	<i>J. S. Haller</i>	DATE	9-16-68
PROD.		DATE	

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D664	IN3606		

digital
EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE			
BUS DATA INTERFACE M101			
SIZE	CODE	NUMBER	REV.
B	CS	M101-0-1	
PRINTED CIRCUIT REV.			
A			

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Q1	TRANSISTOR DEC3009B-S	1503100
E4	INTEGRATED CKT. DEC7400N	1905575
E2, E3, E5	INTEGRATED CKT. DEC74H40N	1905586
E1	INTEGRATED CKT. DEC7430N	1905578
R8	RES. 330 1/4W 5% CC	1300295
R4-R7	RES. 750 1/4W 5% CC	1301401
R1, R2, R3	RES. 8.2K 1/4W 5% CC	1303179
D1-D16	DIODE D664	1100114
C1-C6	CAP. .01MFD 100V 20% DISC	1001610
PARTS LIST		A-PL-M103-0-0
REFERENCE DESIGNATION		DESCRIPTION
PARTS LIST		PART NO.

REV. NO.	CHK	CHG	NO.	REV.
1			00001	A

DRN.	DATE
M. Baller	10-4-68
CHK'D	DATE
G. J. ...	3-12-69
ENG.	DATE
W. ...	11-12-69
PROD.	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3009B	2N3009		
D664	1N3606		

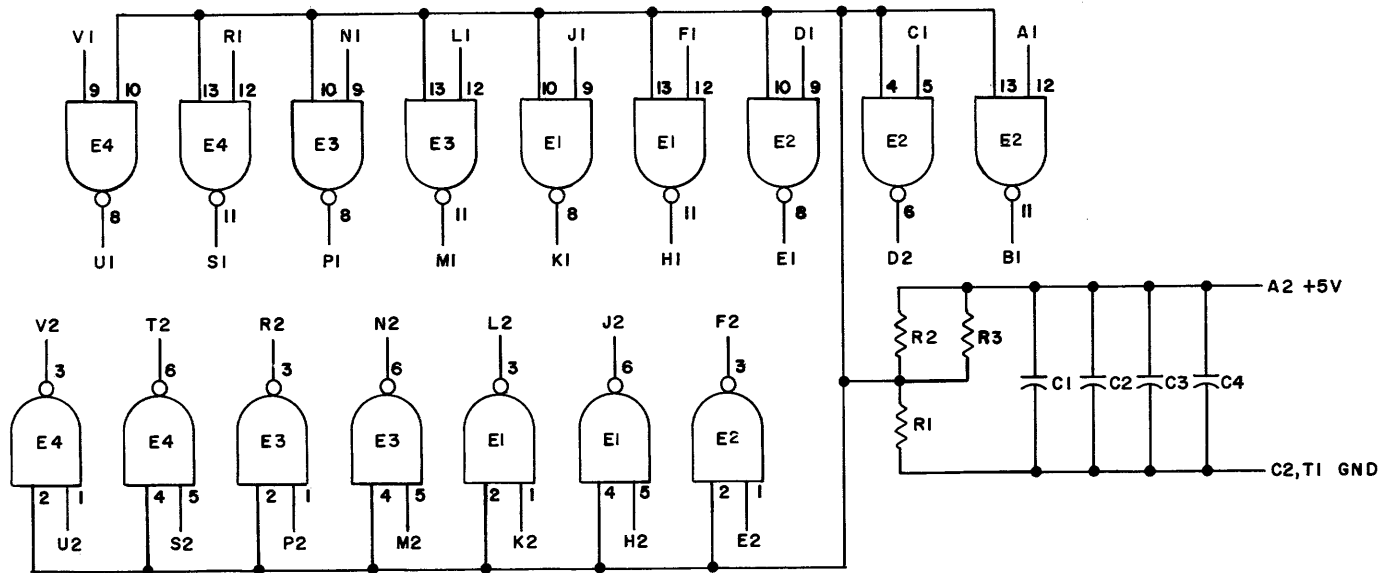
digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE			
DEVICE SELECTOR M103			
SIZE	CODE	NUMBER	REV.
B	CS	M103-0-1	A
PRINTED CIRCUIT REV.			
B			

↓

REV. A	NUMBER 1-0-111W	SIZE B	CODE CS
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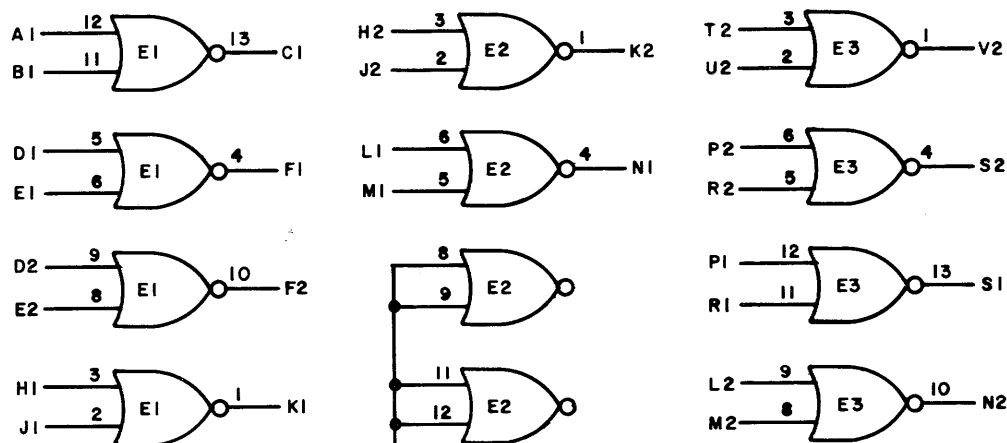
NOTES:
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V

E1-E4	INTEGRATED CKT. DEC7400N	1905575
R1-R3	RES. 750 1/4W 5% CC	1301401
C1-C4	CAP. .01MFD 100V 20% DISC	1001610
PARTS LIST		A-PL-M111-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

REVISIONS CHK CHG NO. REV. 1 00001 A	DRN. <i>m. Haller</i> CHK'D <i>m. Haller</i> ENG. <i>W. Egan</i> PROD. <i>W. Egan</i>	DATE 5-31-68 DATE 6/1/68 DATE 7/5/68 DATE	TRANSISTOR & DIODE CONVERSION CHART <table border="1"> <tr> <th>DEC</th> <th>EIA</th> <th>DEC</th> <th>EIA</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>		DEC	EIA	DEC	EIA																	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE INVERTER M111	
	DEC	EIA	DEC	EIA																							
SIZE B CODE CS NUMBER M111-0-1 REV. A																											
PRINTED CIRCUIT REV. C																											
DIST. 434 435 324																											

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REV. D
NUMBER M112-0-1
SIZE CODE B CS



NOTES:
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V

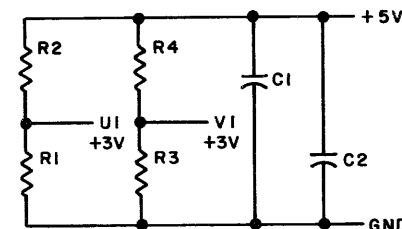
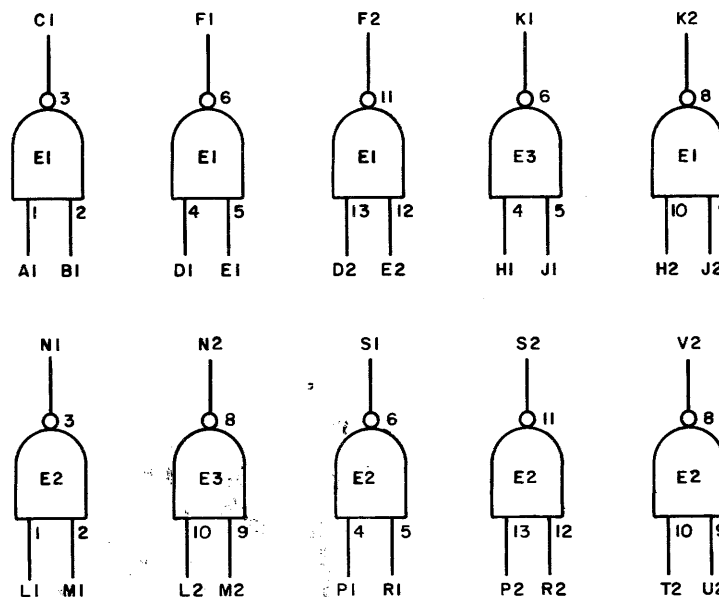
C1,C2,C3	CAP. .01MFD 100V 20% DISC	1001610
E1,E2,E3	INTEGRATED CKT. DEC7402N	1909004
R2,R4	RES. 330 1/4W 5% CC	1300295
R1,R3	RES. 750 1/4W 5% CC	1301401
PARTS LIST		A-PL-M112-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

REVISIONS CHK CHG NO. REV. M1 00001 A M2 00002 C M3 00003 D				DRN. Mr. Waller CHK'D [Signature] ENG. [Signature] PROD. [Signature]		DATE 2-20-68 DATE 2/20/68 DATE 3/7/68 DATE		TRANSISTOR & DIODE CONVERSION CHART <table border="1"> <tr> <th>DEC</th><th>EIA</th><th>DEC</th><th>EIA</th></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>				DEC	EIA	DEC	EIA																					digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS				TITLE NOR GATE M112 SIZE B CODE CS NUMBER M112-0-1 REV. D PRINTED CIRCUIT REV. D			
DEC	EIA	DEC	EIA																																								

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REV. C
 NUMBER M113-0-1
 SIZE CODE B CS 3Z15

+5V ——— A2
 NOT USED -15V ——— B2
 GND ——— C2, T1



NOTES:
 PIN 7 ON EACH IC = GND
 PIN 14 ON EACH IC = +5V

E1 THRU E3	INTEGRATED CKT. DEC7400N	1905575
R1 AND R3	RES. 750 1/4W 5% CC	1301401
R2 AND R4	RES. 330 1/4W 10% CC	1300293
C1 AND C2	CAP. .01MFD 100V 20% DISC	1001610
	PARTS LIST	A-PL-M113-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.
PARTS LIST		

REVISIONS CHK'D 6425 6801 00001 C				DRN. <i>M. Waller</i> DATE 3-15-67		TRANSISTOR & DIODE CONVERSION CHART DEC EIA DEC EIA				digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		TITLE 10-2 INPUT NAND GATES M113							
CHG NO. 6425		REV. A		DATE 4-21-67		DATE 4-21-67		DATE 4-21-67		DATE 4-21-67		SIZE B		CODE CS		NUMBER M113-0-1		REV. C	
PROD.				DATE		DATE		DATE		DATE		PRINTED CIRCUIT REV		D		D		D	

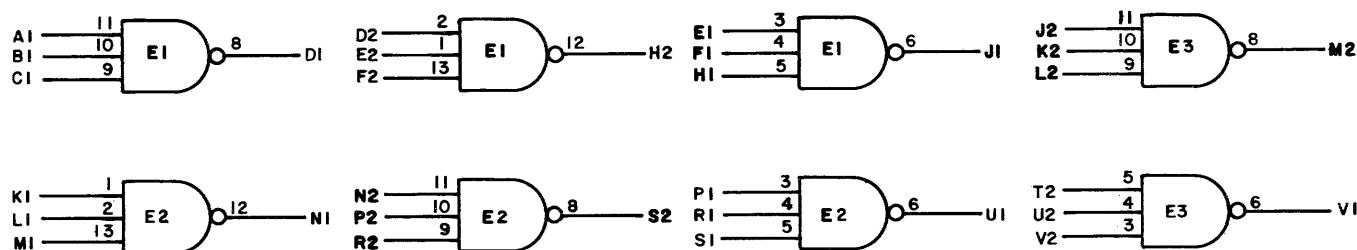
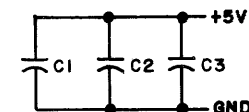
PINK

DIST. 324/434/435

REV. C
NUMBER
MI15-0-1

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+5V ——— A2
NOT USED -15V ——— B2
GND ——— C2, T1



NOTES:
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V

E1 THRU E3	INTEGRATED CKT. DEC7410N	I905576
C1 THRU C3	CAP. .01MFD 100V 20% DISC	1001610
PARTS LIST		A-PL-MI15-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

PARTS LIST

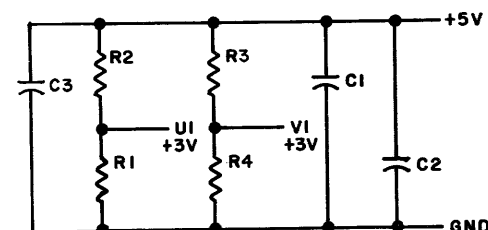
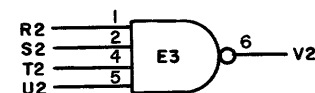
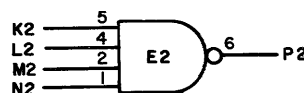
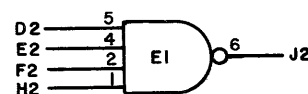
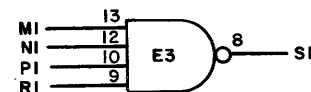
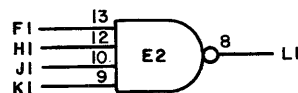
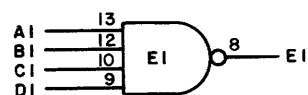
REVISIONS CHK CHG NO. REV. 3423 A 8800 B 00001 C	DRN. <i>M. Waller</i>	DATE 4-20-67	TRANSISTOR & DIODE CONVERSION CHART		digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE 8-3 INPUT NAND GATES MI15		SIZE B CODE CS NUMBER MI15-0-1 REV. C
	CHK'D <i>W. S. White</i>	DATE 4-21-67	DEC	EIA		DEC	EIA	
	ENG. <i>W. S. White</i>	DATE 4/21/67						
	PROD.	DATE						

↑ PINK

DIST. 3241434 435

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+5V — A2
 NOT USED -15V — B2
 GND — C2, T1



NOTES:
 PIN 7 ON EACH IC = GND
 PIN 14 ON EACH IC = +5V

E1 THRU E3	INTEGRATED CKT. DEC7420N	1905577
R1 & R4	RES. 750 1/4W 5% CC	1301401
R2 & R3	RES. 330 1/4W 10% CC	1300293
C1 THRU C3	CAP. .01MFD 100V 20% DISC	1001610
	PARTS LIST	A-PL-MI17-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.
PARTS LIST		

REVISIONS	CHK	CHG	NO	REV
1	✓	✓	6424	A
2	✓	✓	8799	B
3	✓	✓	00001	C
4	✓	✓	00002	E

DRN.	M. Valler	DATE	3-15-67
CHK'D	M. Valler	DATE	4-21-67
ENG.	L. White	DATE	4-21-67
PROD.		DATE	

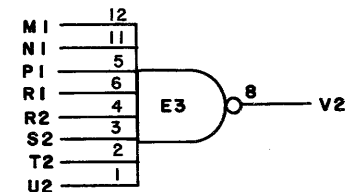
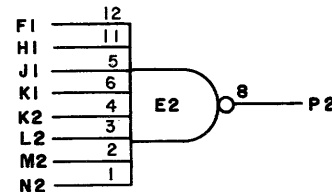
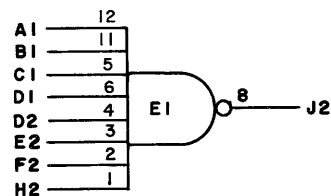
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital
 EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

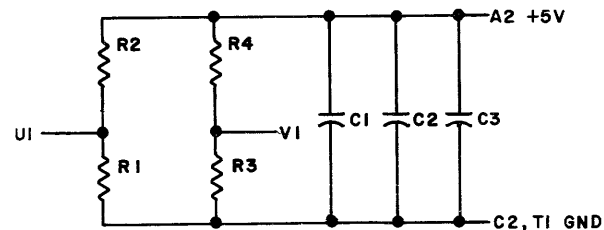
TITLE									
6-4 INPUT NAND GATES MI17									
SIZE	CODE	NUMBER						REV.	
B	CS	MI17-0-1						E	
PRINTED CIRCUIT REV.								E	
DIST. 324 434 433								3	

REV. B
NUMBER M119-0-1
SIZE CODE B CS

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NOTES:
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V



E1 THRU E3	INTEGRATED CKT. DEC7430N	1905578
R2 & R4	RES. 330 1/4W 10% CC	1300293
R1 & R3	RES. 750 1/4W 5% CC	1301401
C1 THRU C3	CAP. .01MFD 100V 20% DISC	1001610
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

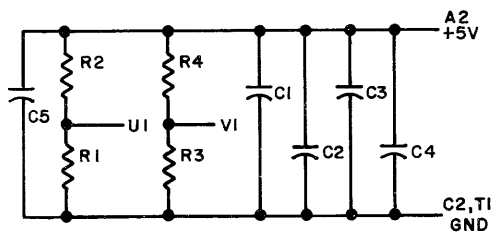
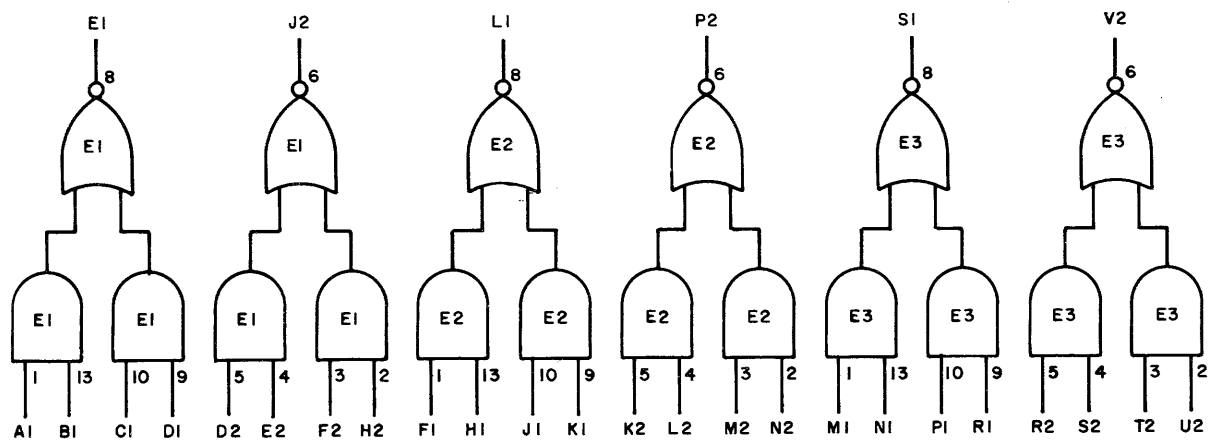
PARTS LIST

REVISIONS	CHK. NO.	REV.	DATE	DRN.	DATE
1	6804	A	8/14/67	M. Waller	8-1-67
2	00001	B	8/11/67	K. Schuman	8/11/67
				W. Schuman	8/11/67
				PROD.	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION				TITLE 3-8 INPUT NAND-GATES M119			
SIZE	CODE	NUMBER	REV.	SIZE	CODE	NUMBER	REV.
B	CS	M119-0-1	B	B	CS	M119-0-1	B
PRINTED CIRCUIT REV. C				PRINTED CIRCUIT REV. C			

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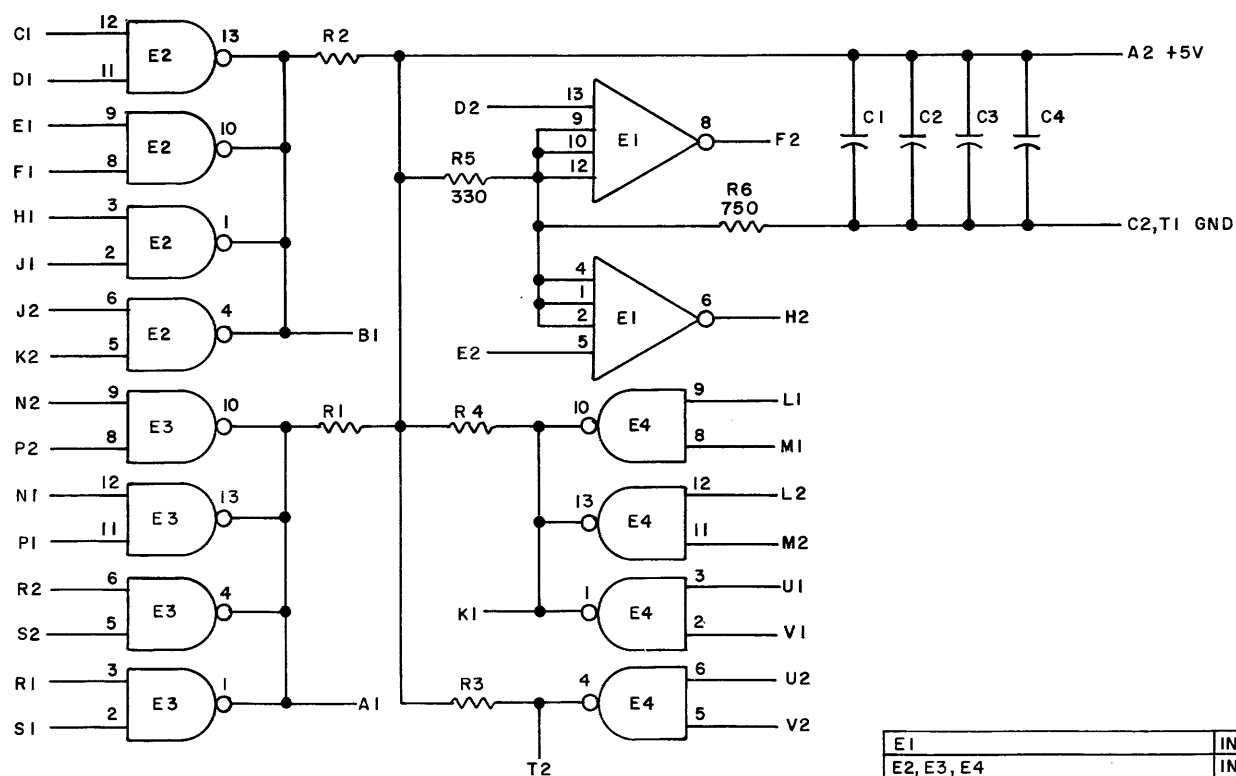
NOTES:
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V

E1 THRU E3	INTEGRATED CKT. DEC7450N	1905580
R2 & R4	RES. 330 1/4W 10% CC	1300293
R1 & R3	RES. 750 1/4W 5% CC	1301401
C1 THRU C5	CAP. .01MFD 100V 20% DISC	1001610
PARTS LIST		A-PL-MI21-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

REVISIONS CHK CHG NO. REV. 6802 A 00001 B 00002 C	DRN. <i>M. Waller</i> DATE 4-27-67 CHK'D <i>[Signature]</i> DATE 4-21-67 ENG. <i>L. White</i> DATE 4-21-67 PROD.	TRANSISTOR & DIODE CONVERSION CHART <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>DEC</th> <th>EIA</th> <th>DEC</th> <th>EIA</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>	DEC	EIA	DEC	EIA																	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE AND-NOR GATE MI21 <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">SIZE</td> <td style="width: 10%;">CODE</td> <td style="width: 40%;">NUMBER</td> <td style="width: 40%;">REV.</td> </tr> <tr> <td>B</td> <td>CS</td> <td>MI21-0-1</td> <td>C</td> </tr> </table> PRINTED CIRCUIT REV.	SIZE	CODE	NUMBER	REV.	B	CS	MI21-0-1	C
DEC	EIA	DEC	EIA																													
SIZE	CODE	NUMBER	REV.																													
B	CS	MI21-0-1	C																													

REV	B	NUMBER	MI41-0-1	CS	B	SIZE
-----	---	--------	----------	----	---	------

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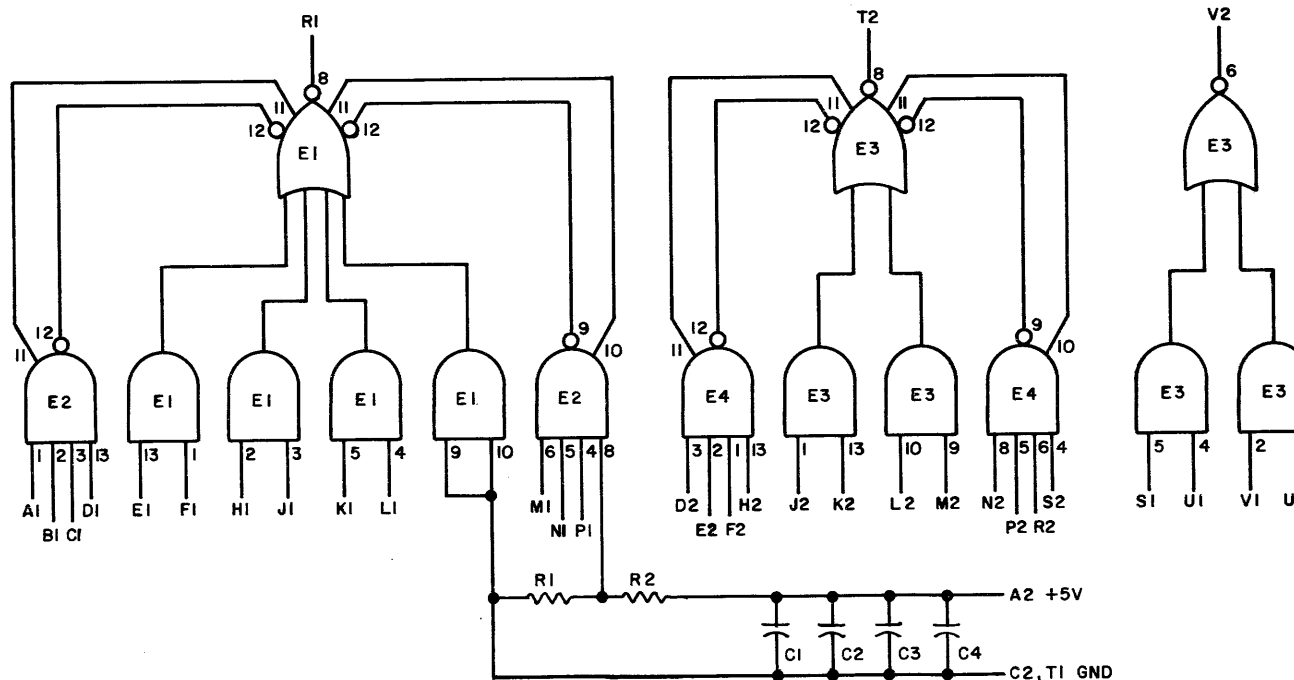
NOTE:
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V

E1	INTEGRATED CKT. DEC7420N	1905577
E2, E3, E4	INTEGRATED CKT. DEC7401N	1905590
R6	RES. 750 1/4W 5% CC	1301401
R5	RES. 330 1/4W 10% CC	1300293
R1 THRU R4	RES. 1.5K 1/4W 5% CC	1300391
C1 THRU C4	CAP. .01MFD 100V 20% DISC	1001610
PARTS LIST		A-PL-MI41-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

REVISIONS CHK'D NO. REV REV 8 REDRAWN 6803 A 00001 B	DRN. M. HALLER DATE 10-6-67	DATE 10-13-67	TRANSISTOR & DIODE CONVERSION CHART DEC EIA DEC EIA		digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE AND/NOR GATES MI41		
	CHK'D R. SILVERMAN DATE 10-13-67	DATE 10-13-67				SIZE B CS	CODE MI41-0-1	REV. B
	ENG. L. WHITE DATE 10-13-67	DATE 10-13-67				PRINTED CIRCUIT REV. C		
	PROD.	DATE						

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REV. B
NUMBER MI60-0-1
SIZE CODE B CS

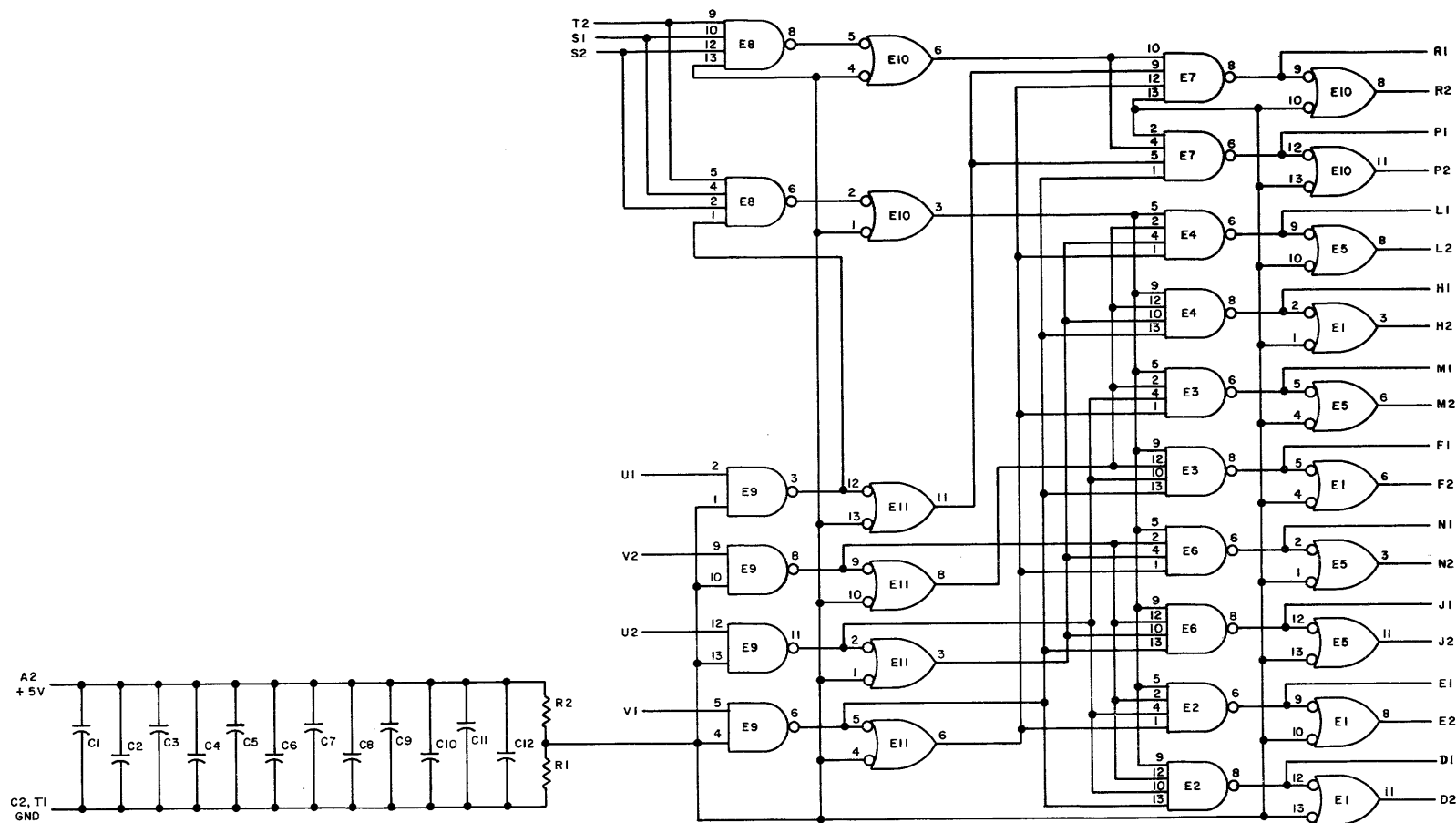


NOTES
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V

E3	INTEGRATED CKT. DEC7450N	1905580
E1	INTEGRATED CKT. DEC7453N	1905582
E2 & E4	INTEGRATED CKT. DEC7460N	1905581
R2	RES. 4.7K 1/4W 10% CC	1300448
R1	RES. 6.8K 1/4W 10% CC	1300463
C1 THRU C4	CAP. .01MFD 100V 20% DISC	1001610
PARTS LIST		A-PL-MI60-0-0
REFERENCE DESIGNATION		DESCRIPTION
PARTS LIST		PART NO.

REVISIONS CHK CHG NO. REV. 6807 A 100001 B		DRN. <i>M. Haller</i> DATE 4-24-67	DATE 8/15/67	TRANSISTOR & DIODE CONVERSION CHART DEC EIA DEC EIA		digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE GATE MODULE MI60	
PROD. <i>Boyle</i> DATE 5/15/67		DATE 5/15/67			SIZE CODE B CS		NUMBER MI60-0-1	REV. B

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PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V

E1, E5, E9, E10, E11	INTEGRATED CKT. DEC7400N	1905575
E2, E3, E4, E6, E7, E8	INTEGRATED CKT. DEC7420N	1905577
R2	RES. 330 1/4W 10% CC	1300293
R1	RES. 750 1/4W 5% CC	1301401
C1 THRU C12	CAP. .01MFD 100V 20% DISC	1001610
PARTS LIST		A-PL-M161-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

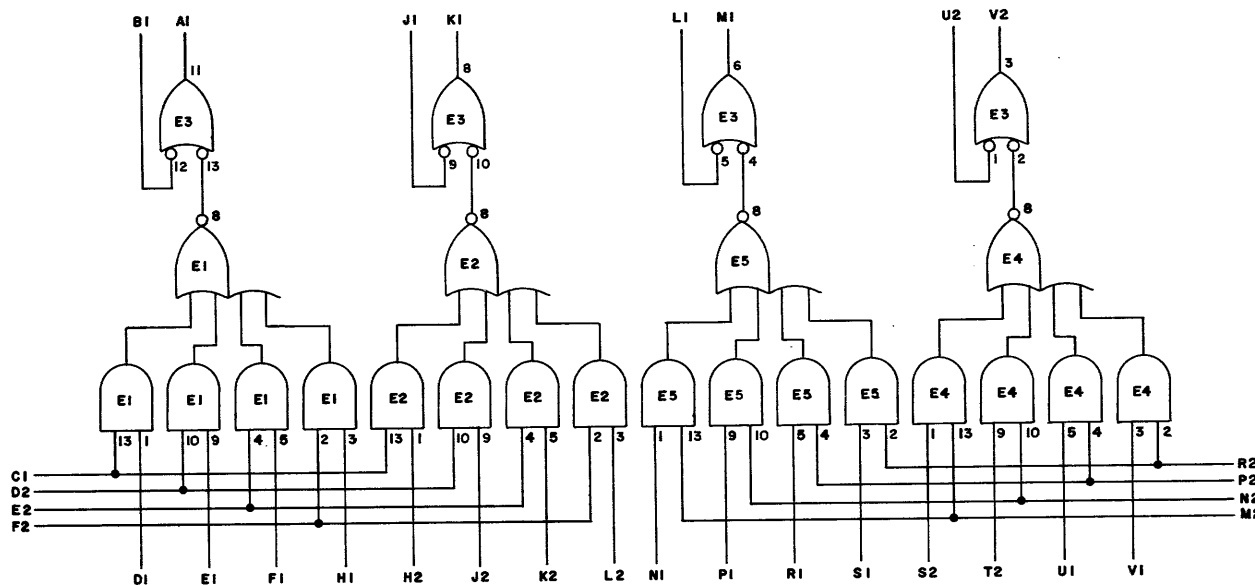
REV.	CHG	NO.	REV.
1	5176	A	
2	00001	B	

DRN	DATE
5/12/67	
CHK'D	DATE
5/17/67	
ENG	DATE
5/17/67	
PROD	DATE

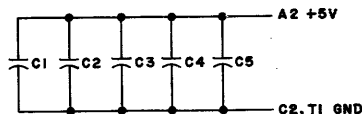
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital		EQUIPMENT CORPORATION		MAYNARD, MASSACHUSETTS	
TITLE: BINARY TO OCTAL/DECIMAL DECODER M161					
SIZE	CODE	NUMBER	REV.		
C	CS	M161-0-1	B		
PRINTED CIRCUIT REV.				C	

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NOTES:
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V



E3	INTEGRATED CKT. DEC7400N	1905575
E1, E2, E4, E5	INTEGRATED CKT. DEC7453N	1905582
C1 THRU C5	CAP. .01MFD 100V 20% DISC	1001610
PARTS LIST		A-PL-MI69-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

PARTS LIST			
TITLE			
GATING MODULE MI69			
SIZE	CODE	NUMBER	REV.
C	CS	MI69-0-1	A
PRINTED CIRCUIT REV.			
B			

REVISIONS
CHG NO. REV.

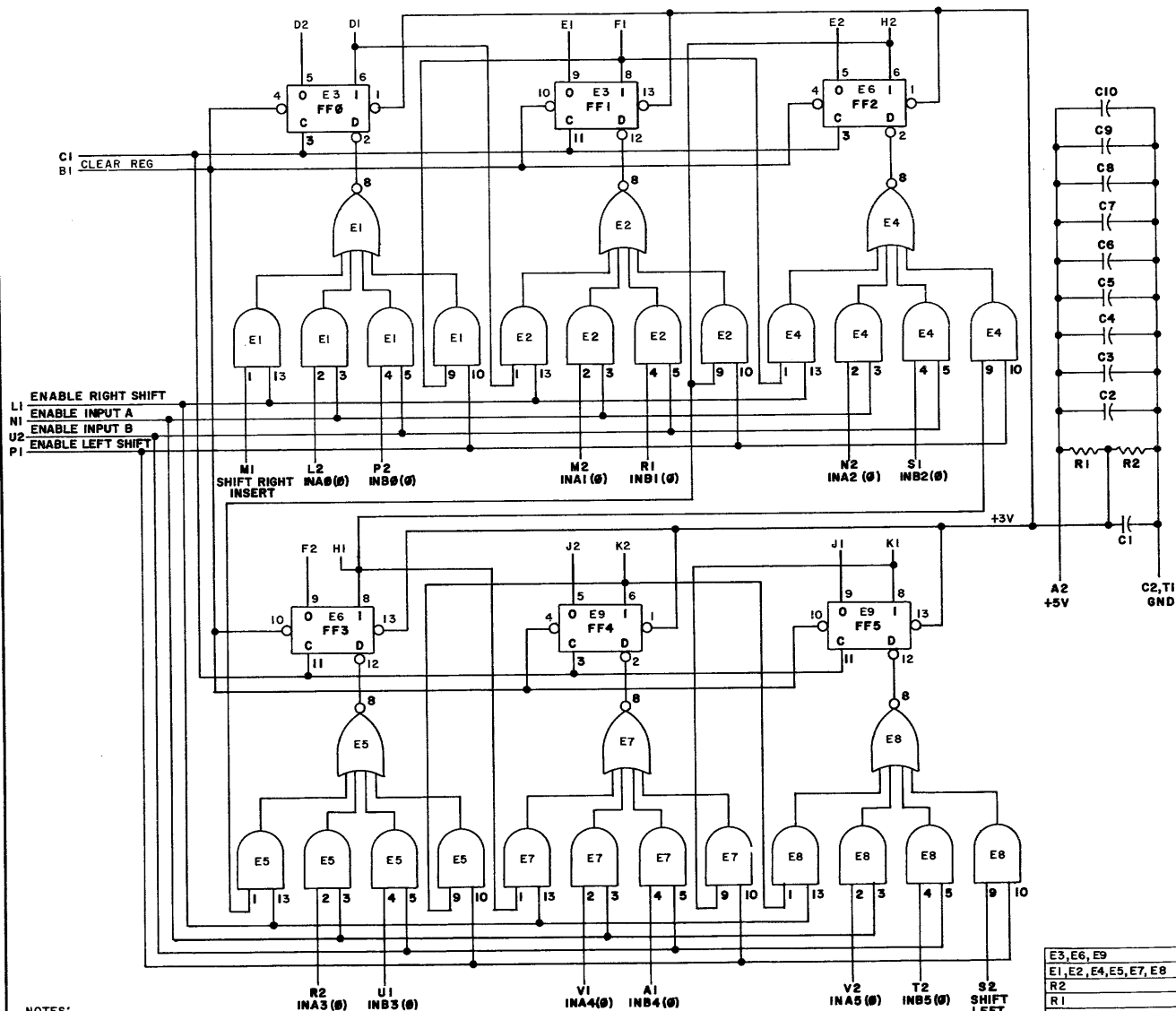
DRN: *M. Haller* DATE: 11-8-67
CHK'D: *R. Schmitt* DATE: 11/12/67
ENG: *R. Schmitt* DATE: 11-17-67
PROD. 1 DATE:

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital
EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

REV. NUMBER
C CS MI69-0-1

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NOTES:
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V

E3, E6, E9	INTEGRATED CKT. DEC7474N	I905547
E1, E2, E4, E5, E7, E8	INTEGRATED CKT. DEC7453N	I905582
R2	RES. 3K 1/4W 5% CC	I300432
R1	RES. 1.5K 1/4W 5% CC	I300391
C1 - C10	CAP. .01MFD 100V 20% DISC	I001610
PARTS LIST		A-PL-M212-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

PARTS LIST

TITLE		6 BIT L-R SHIFT REGISTER M212
SIZE	CODE	NUMBER
C	CS	M212-0-1
PRINTED CIRCUIT REV.		B

REV. B
SIZE CODE NUMBER
C CS M212-0-1

REVISIONS
CHK CHG NO REV

DRN. *Do. Butler* DATE *11-14-68*
CHKD. *R. Schuman* DATE *11-26-67*
ENG. *R. Schuman* DATE *11-26-67*
PROD. 2 DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

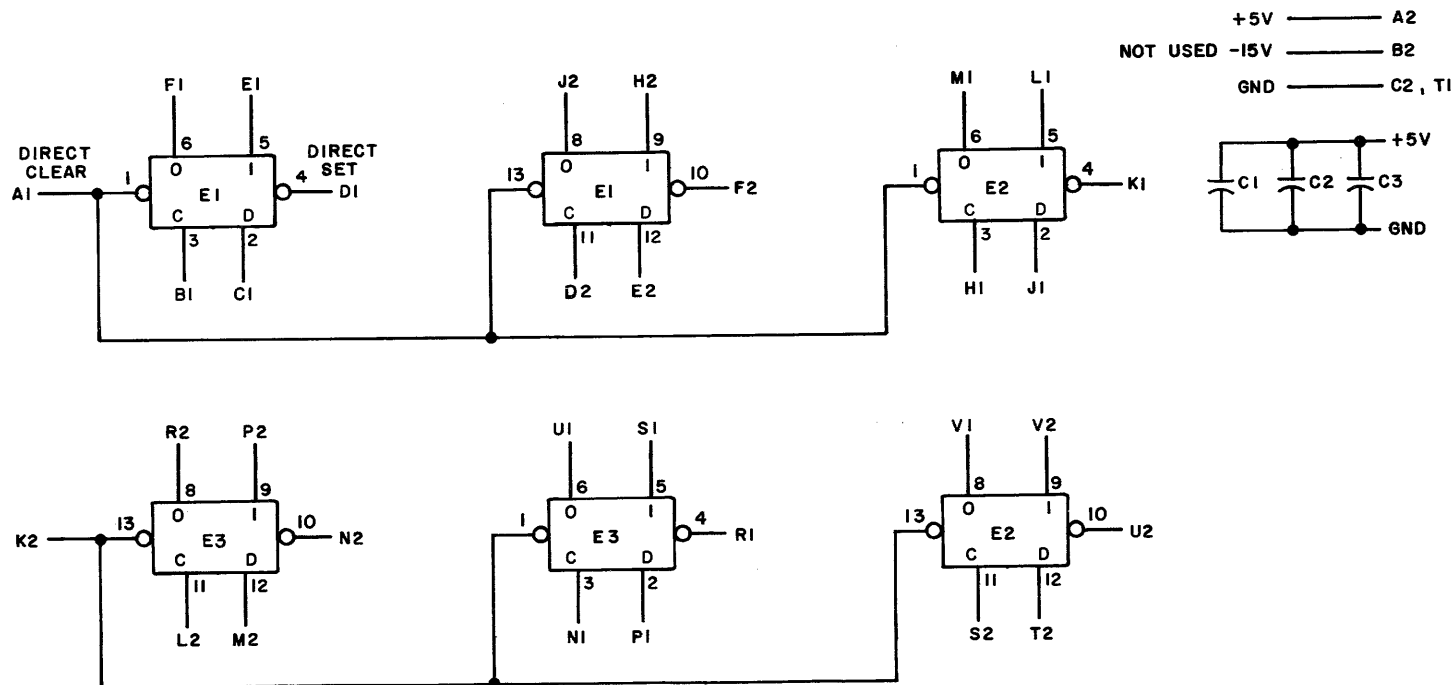
digital
EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PINK

Dist. 1324 494 435

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REV. B
NUMBER M216-0-1
SIZE CODE B CS

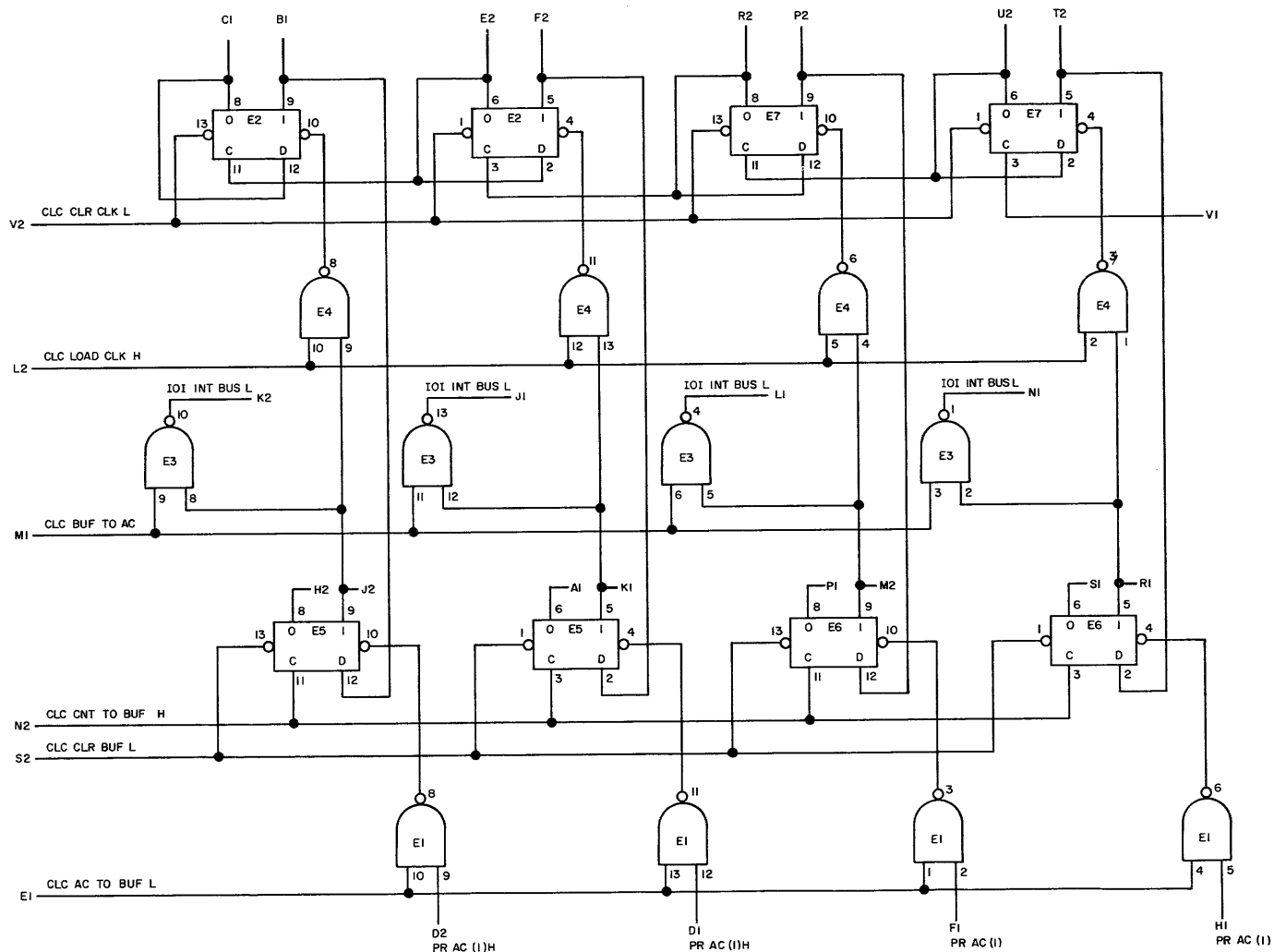


NOTES:
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V

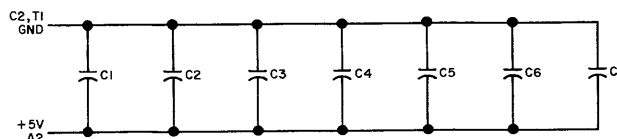
E1 THRU E3	INTEGRATED CKT. DEC7474N	I905547
C1 THRU C3	CAP. .01 MFD 100V 20% DISC	1001610
PARTS LIST		A-PL-M216-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.
PARTS LIST		

REVISIONS	CHK	CHG NO.	REV.	DRN.	M. Valler	DATE	4-15-67	TRANSISTOR & DIODE CONVERSION CHART	DEC	EIA	DEC	EIA	digital	EQUIPMENT CORPORATION	MAYNARD, MASSACHUSETTS	TITLE	SIX FLIP-FLOPS M216	SIZE	CODE	NUMBER	REV.	
	6806	A	00001																			B
	6806	A	00001																			B
	6806	A	00001																			B
CHK	CHG NO.	REV.	DRN.	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE		

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UNLESS OTHERWISE INDICATED:
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V
CAPACITORS ARE .01MFD, 100V, 20%, DISC
E2, E5, E6 AND E7 ARE DEC7474N
E1 AND E4 ARE DEC7400N
E3 IS A DEC7401N



REV.	CHG.	NO.	REV.
1			
2			
3			

DRN
R BUTLER
DATE 4/15/68
CHK'D
J. G. Galletta
DATE 4/16/68
ENG
R J. Galletta
DATE 4/16/68
PRD
R J. Galletta
DATE 4/16/68

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

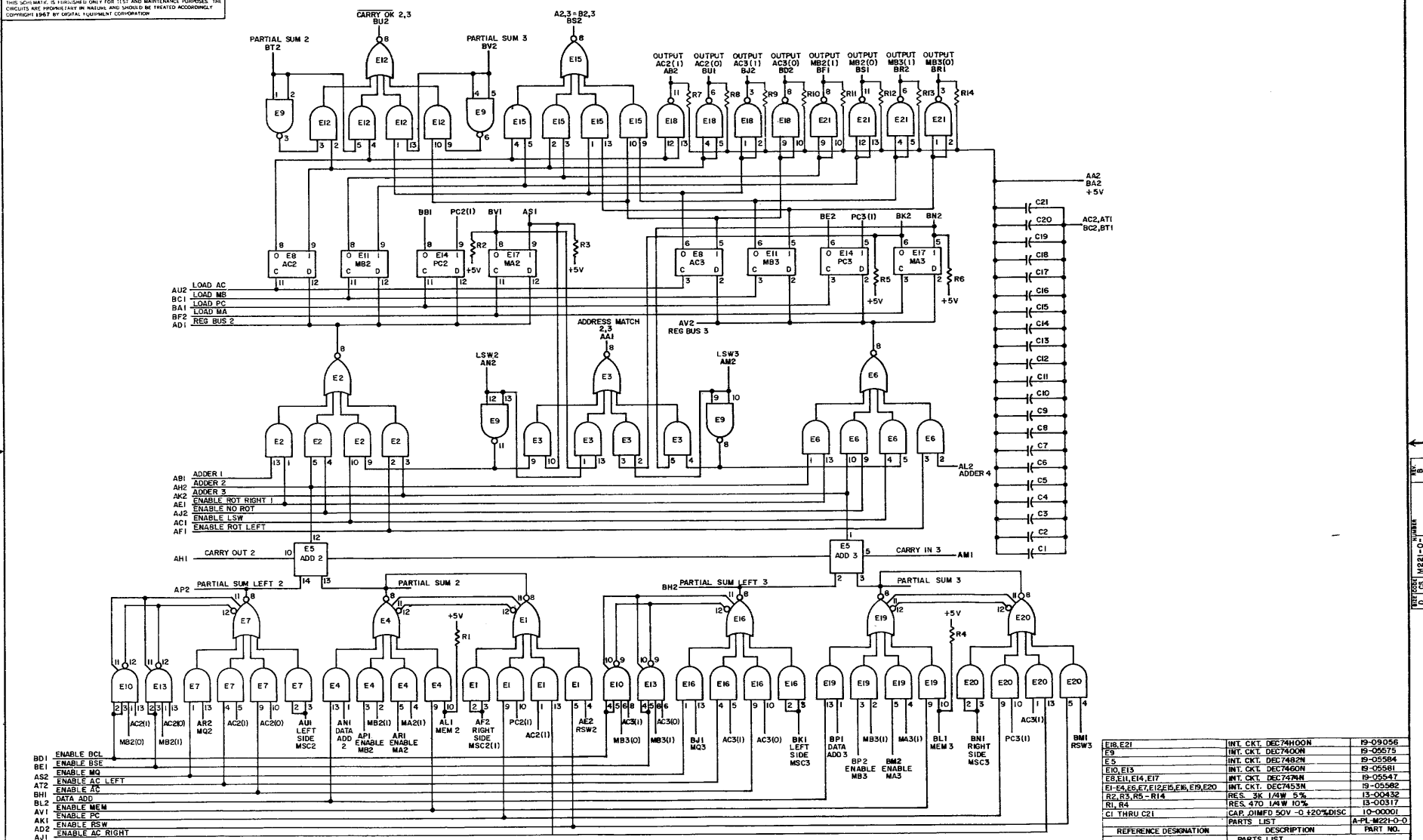
digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
CLOCK REGISTER M217

SIZE	CODE	NUMBER	REV.
C	CS	M217-0-1	
PRINTED CIRCUIT REV.			A

5 DIST. 324,434,435 PINK

REV.	NUMBER
	M217-0-1



NOTES:
PIN 7 ON EACH IC EXCEPT E5 = GND
PIN 14 ON EACH IC EXCEPT E5 = +5V
PIN 11 ON E5 = GND
PIN 4 ON E5 = +5V

E18,E21	INT. CKT. DEC74MOON	P9-09056
E9	INT. CKT. DEC74MOON	P9-05575
E5	INT. CKT. DEC74B2N	P9-05584
E10,E13	INT. CKT. DEC74MOON	P9-05581
E8,E11,E14,E17	INT. CKT. DEC74B1N	P9-05547
E15,E16,E17,E18,E19,E16,E19,E20	INT. CKT. DEC74MOON	P9-05582
R2,R3,R5-R14	RES. 3K 1/4W 5%	13-00432
R1,R4	RES. 470 1/4W 10%	13-00317
CT1,CT2,CT5	CAP. 0.1MFR 50V $\pm 20\%$ DISC	10-00001
	PARTS LIST	A-PL-M221-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

MODE CONVERSION CHART		PARTS LIST		TITLE	
DEC	IMA	digital		MAIN REGISTER M221	
		EQUIPMENT CORPORATION		SIZE D	CODE CS
		WATSON, MASSACHUSETTS		NUMBER M221-0-1	REV B
		PRINTED CIRCUIT REV.			

DATE	CS	M22-0-1	A
------	----	---------	---



DI-05	DIODE D662	I100113
E14	INTEGRATED CKT. DEC1M50N	I905580
E1,E2,E3,E6,E13,E16,E17	INTEGRATED CKT. DEC7M33M	I905582
E11,E15	INTEGRATED CKT. DEC1400N	I905575
E9	INTEGRATED CKT. DEC7482N	I905584
E4,E5,E7,E8,E10,E12	INTEGRATED CKT. DEC7474N	I905547
E1	RES. 220 1/4W 5% CC	I300271
CI - C17	CAP. .01 MFD 100V 20% DISC	I001610
REFERENCE DESIGNATION	PARTS LIST	A-PL M222-0
	DESCRIPTION	PART NO.

DI-05	DIODE D662	I100113
E14	INTEGRATED CKT. DEC1M50N	I905580
E1,E2,E3,E6,E13,E16,E17	INTEGRATED CKT. DEC7M33M	I905582
E11,E15	INTEGRATED CKT. DEC1400N	I905575
E9	INTEGRATED CKT. DEC7482N	I905584
E4,E5,E7,E8,E10,E12	INTEGRATED CKT. DEC7474N	I905547
E1	RES. 220 1/4W 5% CC	I300271
CI - C17	CAP. .01 MFD 100V 20% DISC	I001610
REFERENCE DESIGNATION	PARTS LIST	A-PL M222-0
	DESCRIPTION	PART NO.

REFERENCE DESIGNATION

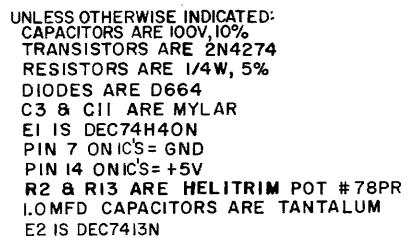
PARTS LIST	
digital	TIME LINC TAPE REGISTER M222

EQUIPMENT CORPORATION	SATY	CODE	NUMBER	RE A
	D	CS	M222-0-1	
MATTHEW, MARGARET BETH	PRINTED CIRCUIT REV.			

DIST. 324, 434, 435³

PINK

SIZE	B	CS	M302-0-1	REV.	K
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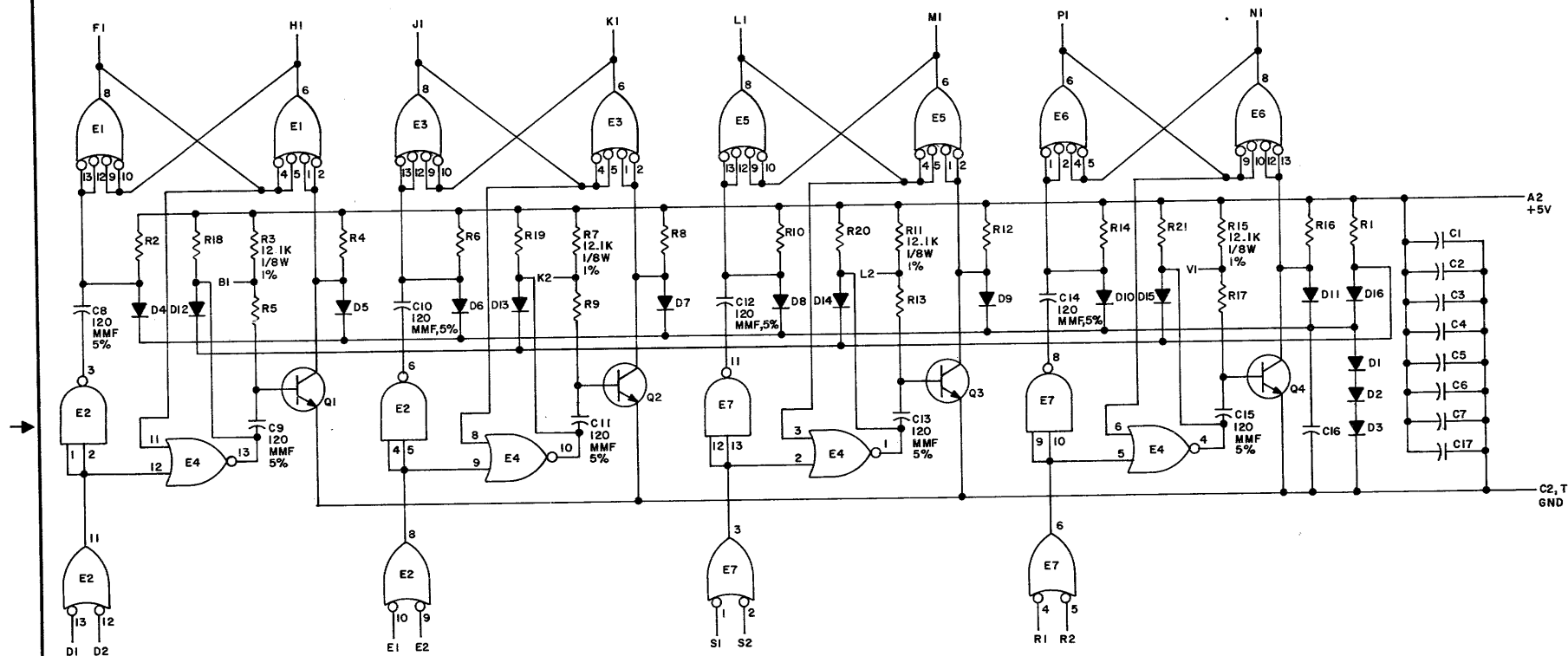


REVISIONS			
CHK	CHG NO.	REV.	
1	6507	B	
2	6719	C	
		D	
3	6881	E	
4	7077	F	
5	00001	H	
6	00002	J	
7	00003	K	

TRANSISTOR & DIODE CONVERSION CHART			
DEC		EIA	
2N4274	SAME		
DEC3639B	2N3639		
D662	1N645		
D664	1N3606		

TITLE																	
ONE SHOT DELAY M302																	
SIZE	CODE	NUMBER									REV.						
B	CS	M302-0-1									K						
PRINTED CIRCUIT REV.										K							

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UNLESS OTHERWISE INDICATED:
 RESISTORS ARE 1K
 RESISTORS ARE 1/4W, 5%
 TRANSISTORS ARE DEC3009B
 E1, E3, E5, E6 ARE DEC7440
 E2, E7 ARE DEC7400
 E4 IS DEC7402
 PIN 7 ON EACH IC = GND
 PIN 14 ON EACH IC = +5V
 DIODES ARE D664
 CAPACITORS ARE .01 MFD, 100V, 20%

REV.	NO.	DATE
1	00001	A

DRN. *M. Valler*
 CHK'D *M. Valler*
 ENG. *R. L. Chaffin*
 PROD. *R. L. Chaffin*

DATE 4-22-69
 DATE 4-23-69
 DATE 6-28-69
 DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC		EIA	
D664	IN3606		
DEC3009B	2N3009		

digital
 EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

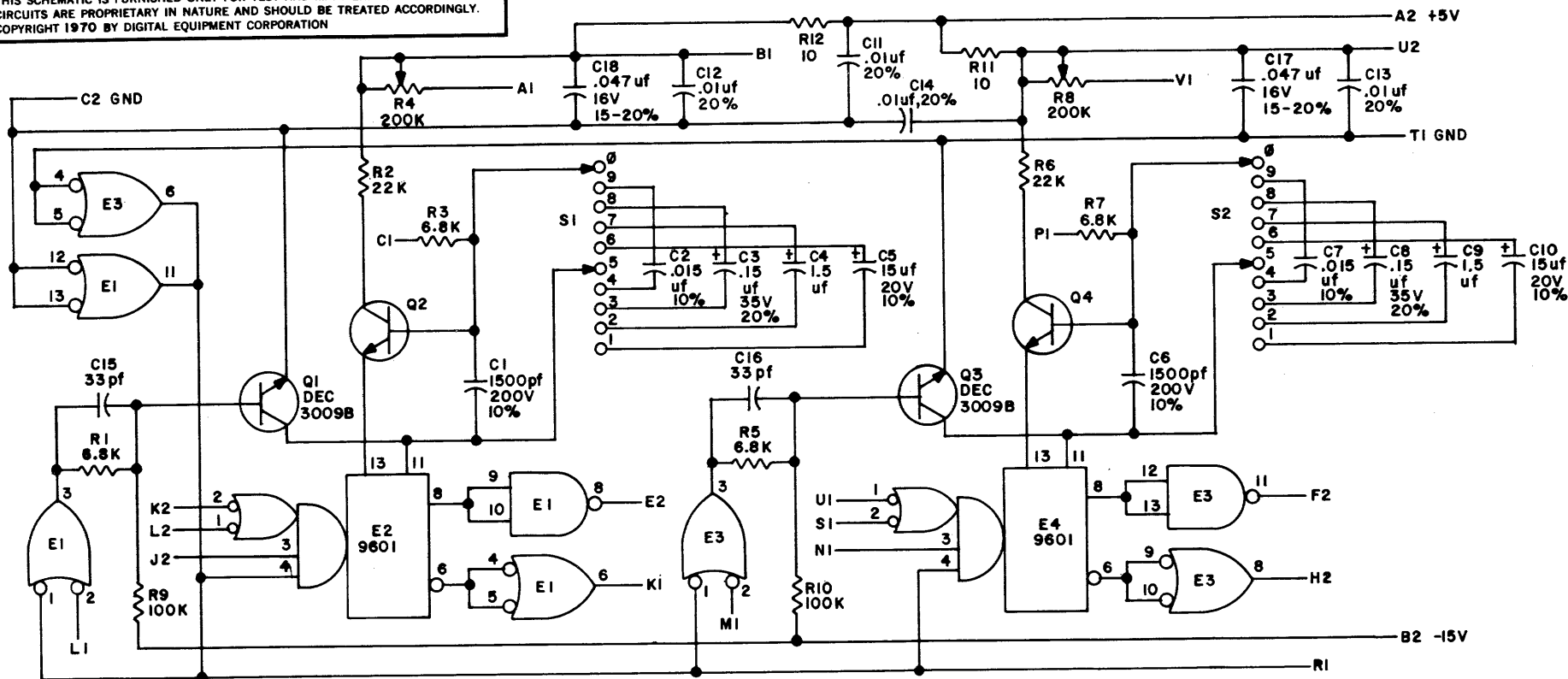
TITLE			
ONE SHOT DELAY M304			
SIZE	CODE	NUMBER	REV.
C	CS	M304-0-1	A
PRINTED CIRCUIT REV.			B

DEC FORM NO. DRC 102

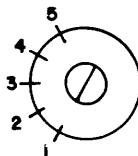
DIST. 324,934,411 PINK

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REV. B
NUMBER M307-0-1
SIZE CODE B CS



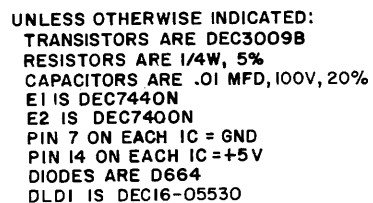
UNLESS OTHERWISE INDICATED:
TRANSISTORS ARE 2N5088
RESISTORS ARE 1/4W, 5%
CAPACITORS ARE 100V, 5%
R4 & R8 ARE 78PR POTS
SWITCHES ARE 2 POLE, 5 POSITION SPECTROL
E1, E3 ARE DEC7400
PIN 7 ON EACH IC = GND
PIN 14 ON E1, E3 = +5V
PIN 14 ON E2 = VCC, PIN B1
PIN 14 ON E4 = VCC, PIN U2



RANGE 5 5 μ sec. — 50 μ sec.
4 50 μ sec. — 500 μ sec.
3 500 μ sec. — 5 msec.
2 5 msec. — 50 msec.
1 50msec. — 500msec.

REVISIONS				TRANSISTOR & DIODE CONVERSION CHART				digital EQUIPMENT CORPORATION				TITLE INTEGRATING ONE SHOT M307			
CHK	CHG	NO.	REV.	DEC	EIA	DEC	EIA	SIZE	CODE	NUMBER	REV.	SIZE	CODE	NUMBER	REV.
MH	0000	1	A	DEC 3009B	2N3009			B	CS	M307-0-1	B	B	CS	M307-0-1	B
REV	0000	2	B	2N5088	NONE										
DRN. M. HALLER				DATE 9-3-69				MAYNARD, MASSACHUSETTS				PRINTED CIRCUIT REV.			
CHK'D A. YAGUA				DATE 9-3-69											
ENG. R. SCHWEGLER				DATE 9-4-69											
PROD. R. SCHWEGLER				DATE 9-4-69											

SIZE	B	CS	310-0-1	D
CODE			NUMBER	REV.



REVISIONS			
CHK	CHG NO.	REV.	
	6771	A	
	00001	B	
	00002	C	
	00003	D	

DEC FORM NO.
DRB 102

DRN.	M. Haller	DATE	4-7-67
CHK'D	<i>[Signature]</i>	DATE	5/5/67
ENG	<i>[Signature]</i>	DATE	5/5/67
PROD.		DATE	

TRANSISTOR & DIODE CONVERSION CHART			
DEC		EIA	
DEC3009B	2N3009		
DEC6534B	MPS6534		
D662	IN645		
D664	IN3606		

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
DELAY LINE M310

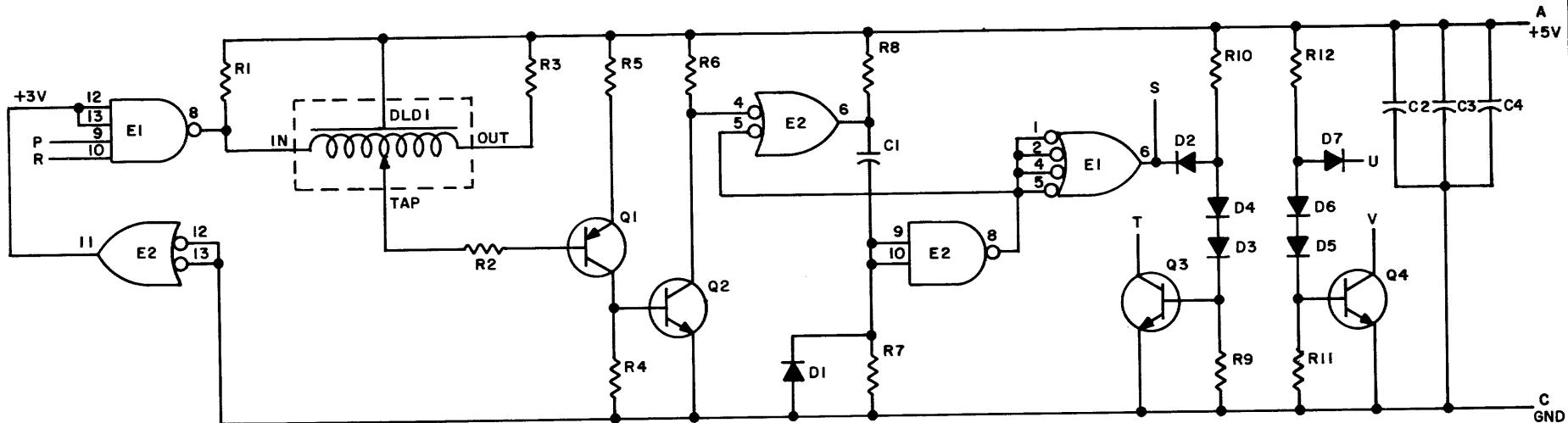
SIZE B	CODE CS	NUMBER M310-0-1	REV D
PRINTED CIRCUIT REV.		C	

DIST. 324, 434, 435

PINK

REV. B
NUMBER M360-0-1
SIZE CODE B
CS

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NOTES:
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V

DLD1	DELAY LINE 500	1602167
E2	INTEGRATED CKT. DEC7400N	1905575
E1	INTEGRATED CKT. DEC7440N	1905579
Q1	TRANSISTOR DEC6534B	1503409-01
Q2, Q3, Q4	TRANSISTOR DEC3009B-S	1503100
R10, R12	RES. 1.5K 1/4W 5% CC	1300391
R9, R11	RES. 3K 1/4W 5% CC	1300432
R7	RES. 220 1/4W 5% CC	1300271
R4, R5, R6	RES. 750 1/4W 5% CC	1301401
R1, R2, R3, R8	RES. 470 1/4W 5% CC	1300316
D1-D7	DIODE D664	1100114
C2, C3, C4	CAP. .01MFD 100V 20% DISC	1001610
C1	CAP. 330MMF 100V 5% D.M.	1000023
	PARTS LJST	A-PL-M360-0-0
REFERENCE DESIGNATION		DESCRIPTION
		PART NO.

PARTS LIST				TITLE			
TRANSISTOR & DIODE CONVERSION CHART				VARIABLE DELAY M360			
DEC	EIA	DEC	EIA	SIZE	CODE	NUMBER	REV.
DEC3009B	2N3009			B	CS	M360-0-1	B
DEC6534B	MP6534			PRINTED CIRCUIT REV.			
D664	IN3606			A B			

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

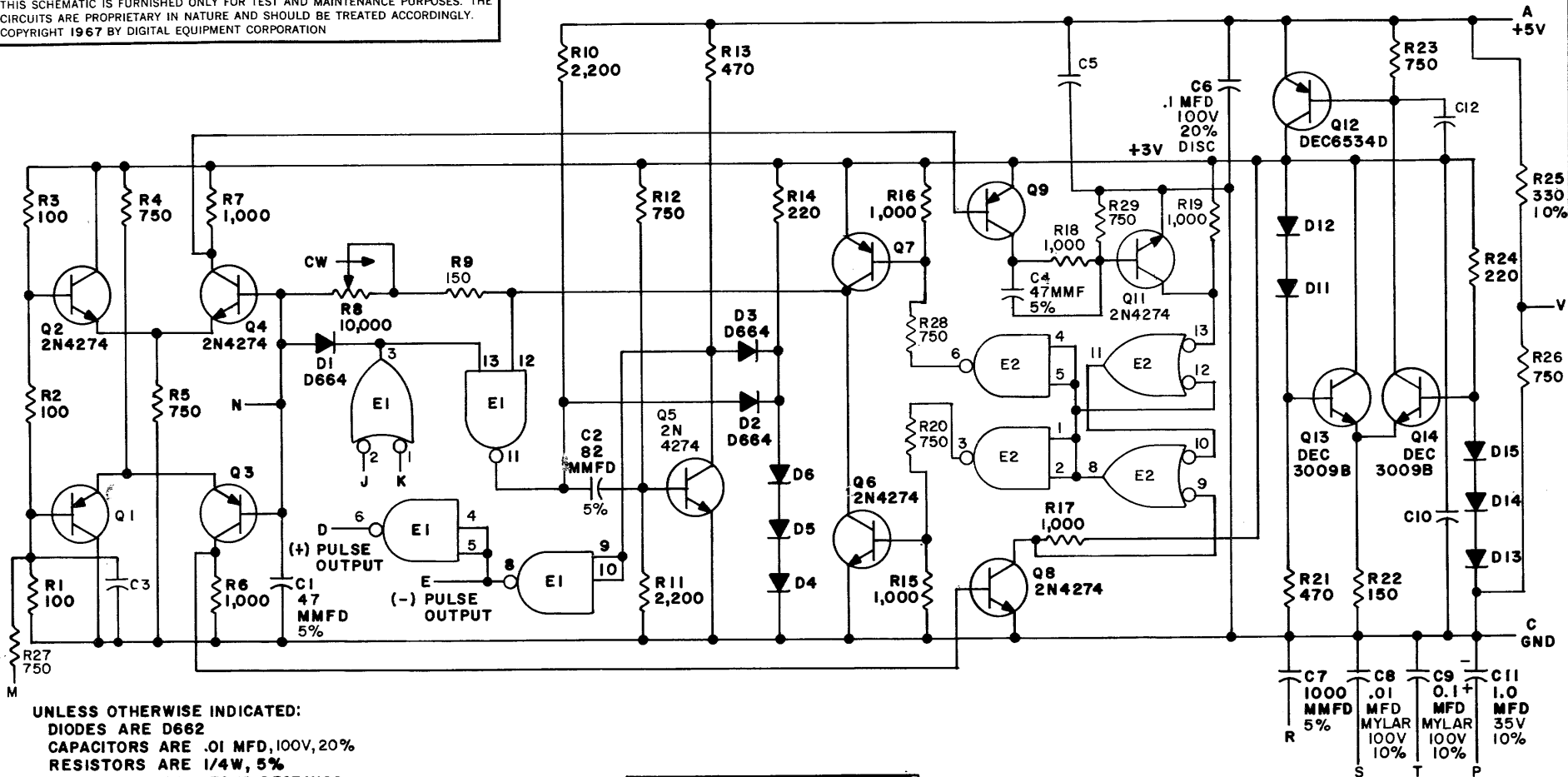
DIST. 314 434 435 4 PINK

REV.	CHK	NO.	REV.
1	6978	A	
2	7058	B	
3	00001		

DRN.	DATE
M. Waller	3-31-67
CHK'D	DATE
	5/3/67
END	DATE
	5/5/67
PROD.	DATE

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REV. M
NUMBER M401-0-1
CS B
SIZE



UNLESS OTHERWISE INDICATED:
DIODES ARE D662
CAPACITORS ARE .01 MFD, 100V, 20%
RESISTORS ARE 1/4W, 5%
E1 IS DEC7400, E2 IS DEC74H00
PIN 7 ON IC = GND
PIN 14 ON IC = +5V
TRANSISTORS ARE DEC4258
R8 IS A HELITRIM POT 10%-78PR

PARTS LIST A-PL-M401-0-0

REV	CHK	CHG	NO	REV
1	0	6769	A	
2	0	6844	B	
3	0	00001	C	
4	0	00002	D	
5	0	00003	E	
6	0	00004	F	
7	0	00005	G	
8	0	00006	H	
9	0	00007	I	
10	0	00008	J	
11	0	00009	K	
12	0	00010	L	
13	0	00011	M	

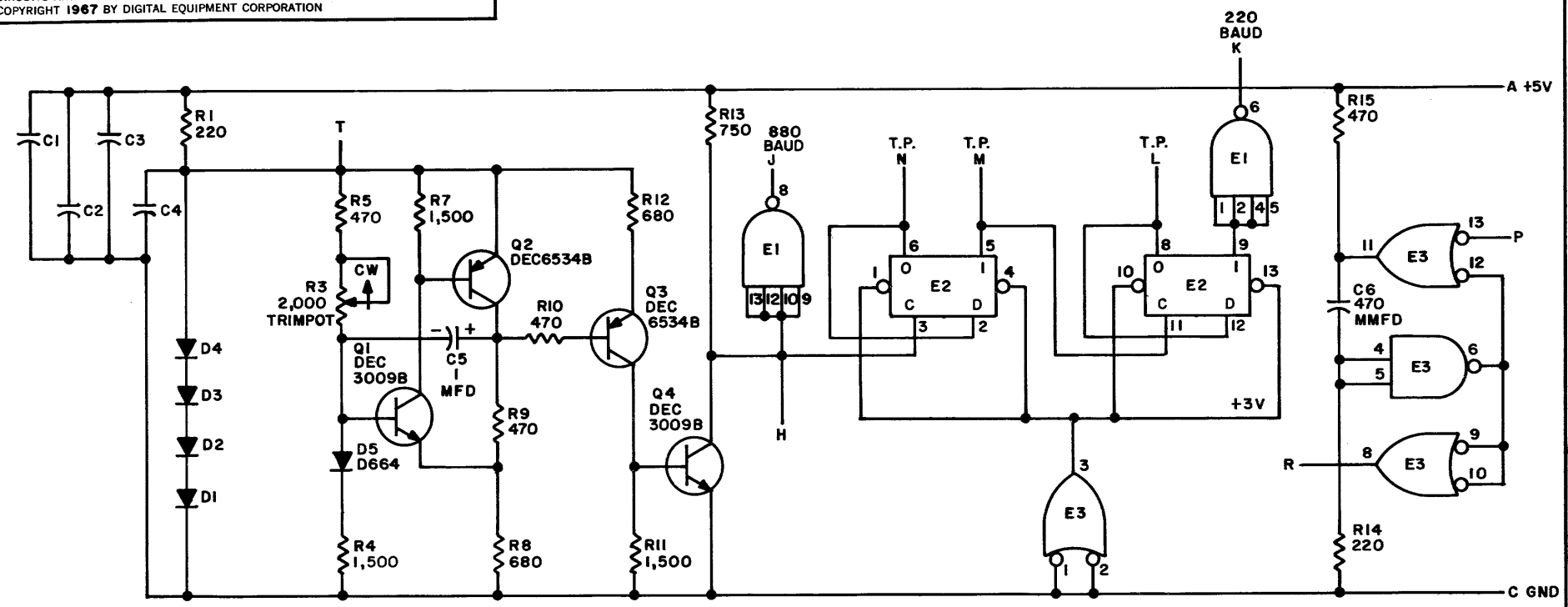
DRN.	DATE
CHK'D	DATE
ENG.	DATE
PROD.	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3009B	2N3009	D662	1N645
DEC4258	2N4258	D664	1N3606
2N4274	SAME		
DEC6534D	MPS6534		

digital
EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE			
VARIABLE CLOCK M401			
SIZE	CODE	NUMBER	REV.
B	CS	M401-0-1	M
PRINTED CIRCUIT REV.			
L			

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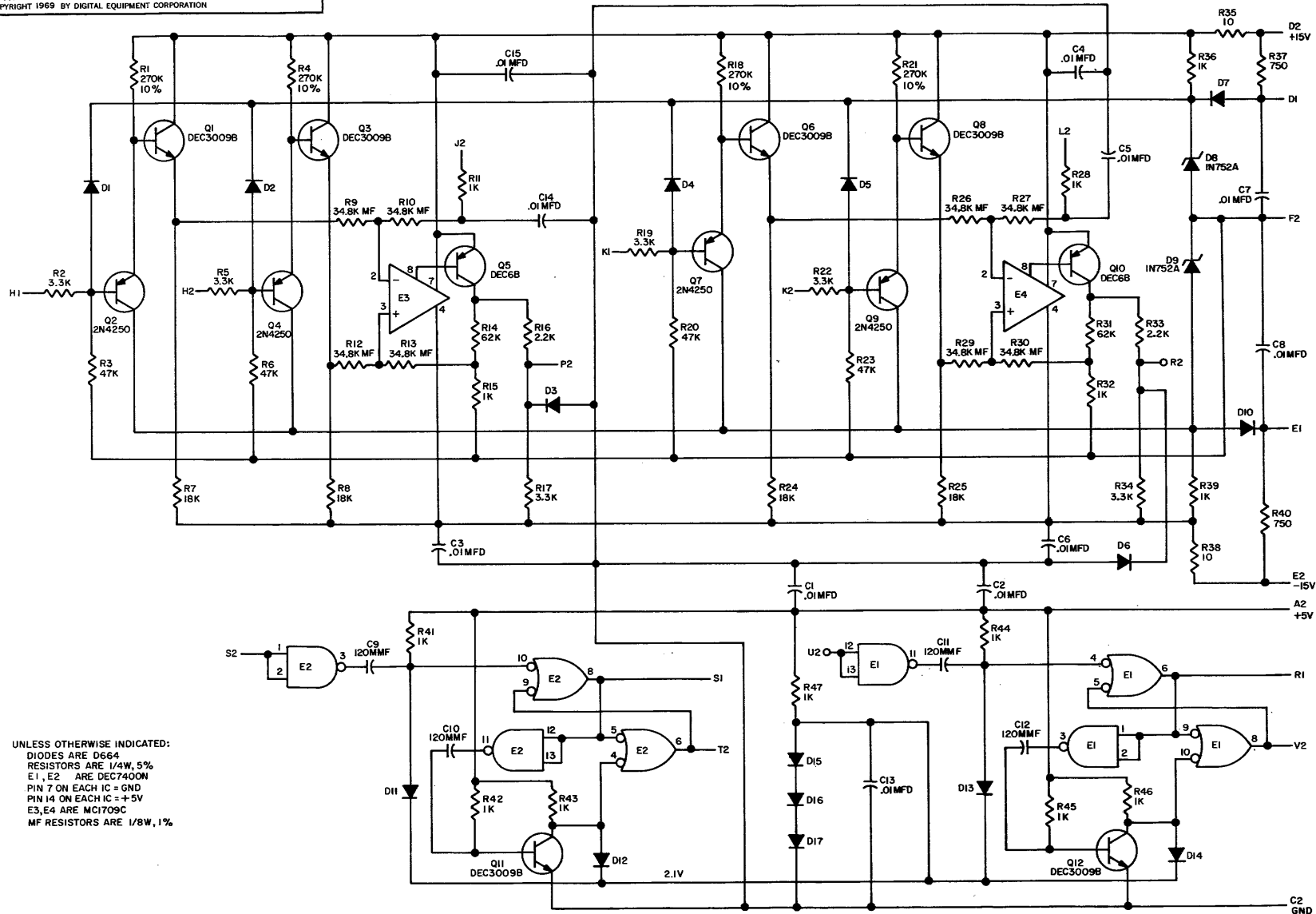


UNLESS OTHERWISE INDICATED:
 RESISTORS ARE 1/4 W, 5%
 CAPACITORS ARE .01 MFD
 C5 IS 35V, 10%, TANT.
 DIODES ARE D662
 E1 IS DEC7440N
 E2 IS DEC7474N
 E3 IS DEC7400N
 PIN 7 ON EACH IC = GND
 PIN 14 ON EACH IC = +5V
 R3 IS A #275P

 <----->

REVISIONS CHK CHG NO. REV.	DRN.	M. Haller	DATE	4-7-67	TRANSISTOR & DIODE CONVERSION CHART		digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE		VARIABLE CLOCK M452										
	CHK'D		DATE	4/28/67	DEC	EIA		SIZE	CODE	NUMBER	REV.									
	ENG		DATE	4/28/67	DEC3009B	2N3009		B	CS	M452-0-1	A									
	PROD.		DATE		DEC6534B	MPS6534														
						D662	IN645													
						D664	IN3606													

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UNLESS OTHERWISE INDICATED:
 DIODES ARE D664
 RESISTORS ARE 1/4W, 5%
 E1, E2 ARE DEC7400N
 PIN 7 ON EACH IC = GND
 PIN 14 ON EACH IC = +5V
 E3, E4 ARE MCI709C
 MF RESISTORS ARE 1/8W, 1%

REV. 1
 SIZE CODE NUMBER
 CS M503-0-1

REVISIONS
 CHG NO. REV.

DEC FORM NO.
 DEC 102

DRN BUTLER DATE 5/1/69
 CHG 1 DATE 5/1/69
 ENG. R. J. J. DATE 5/20/69
 PROD. DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D664	IN3606		
DEC3009B	2N3009		
2N4250	NONE		
IN752A	SAME		
DEC6B	NONE		

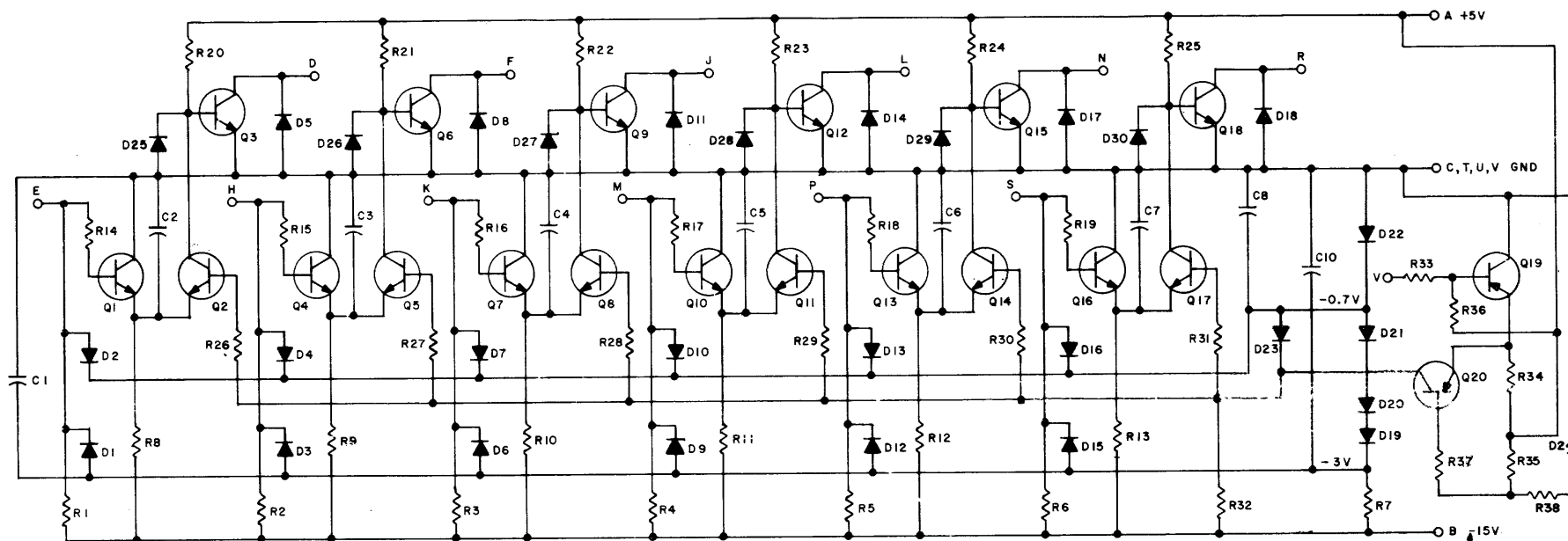
digital
 EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

TITLE SCHMITT TRIGGER M503

SIZE CODE NUMBER REV.
 C CS M503-0-1 A

5 PINK DIST. 324, 434, 435

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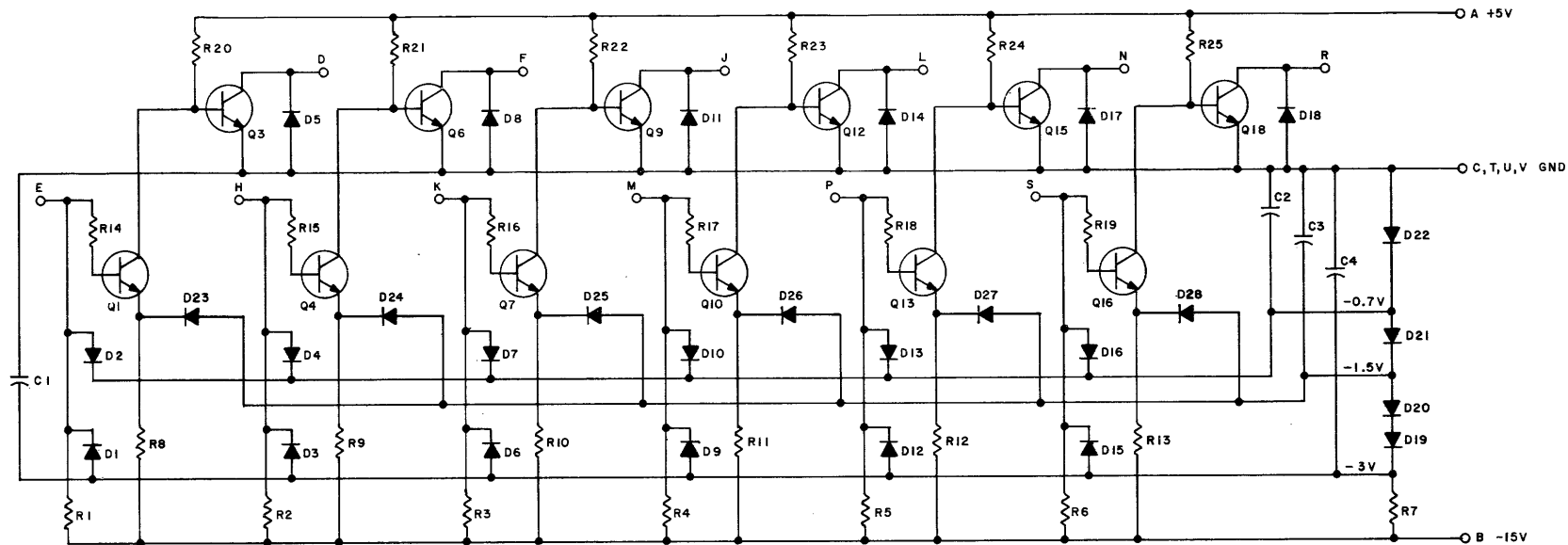


R34	RES. 100 1/4W 5% CC	1300229
R36	RES. 10K 1/4W 10% CC	1300481
R38	RES. 220 1/4W 10% CC	1300275
Q19, Q20	TRANSISTOR DEC2894-IB	1503097
Q1-Q18	TRANSISTOR DEC3009B-S	1503100
R20-R25, R35, R37	RES. 1K 1/4W 5% CC	1300365
R8-R13	RES. 2.2K 1/4W 5% CC	1300417
R14-R19, R26-R31, R33	RES. 470 1/4W 5% CC	1300316
R1-R7, R32	RES. 1.5K 1/4W 5% CC	1300391
C2-C7	CAP. 470 MMF 100V 5% DM	1000024
C1, C8, C10	CAP. .01 MFD 100V 20% DISC	1001610
D19-D22, D24	DIODE D662	1100113
D1-D18, D23, D25-D30	DIODE D664	1100114
PARTS LIST		A-PL-M507-0-0
REFERENCE DESIGNATION		DESCRIPTION
PARTS LIST		PART NO.

REVISIONS CHK'D NO. REV. 1 00001 A 2 00003 D		DRN. <i>W. Muller</i> CHK'D <i>W. Muller</i> ENG. <i>W. Muller</i> PROD. <i>W. Muller</i>		DATE 8-23-68 DATE 8-23-68 DATE 9/4/68 DATE DEC 20/68		TRANSISTOR & DIODE CONVERSION CHART <table border="1"> <tr> <th>DEC</th> <th>EIA</th> </tr> <tr> <td>DEC3009B</td> <td>2N3009</td> </tr> <tr> <td>D662</td> <td>1N645</td> </tr> <tr> <td>D664</td> <td>1N3606</td> </tr> <tr> <td>DEC2894-IB</td> <td>NONE</td> </tr> </table>		DEC	EIA	DEC3009B	2N3009	D662	1N645	D664	1N3606	DEC2894-IB	NONE	TITLE BUS CONVERTER M507 EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS PRINTED CIRCUIT REV. F		SIZE CODE NUMBER REV. C CS M507-0-1 D	
DEC	EIA																				
DEC3009B	2N3009																				
D662	1N645																				
D664	1N3606																				
DEC2894-IB	NONE																				

REV D
NUMBER
CS M507-0-1
SIZE CODE
C CS

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Q15, Q16, Q18	TRANSISTOR DEC3009B-S	1503100
Q1, Q3, Q4, Q6, Q7, Q9, Q10, Q12, Q13,	RES. 1K 1/4W 5% CC	1300365
R20-R25	RES. 2.2K 1/4W 5% CC	1300417
R8-R13	RES. 470 1/4W 5% CC	1300316
R14-R19	RES. 1.5K 1/4W 5% CC	1300391
R7	RES. 7.5K 1/4W 5% CC	1301422
R1-R6	CAP. .01MFD 100V 20% DISC	1001610
C1-C4	DIODE D662	1100113
D19-D22	DIODE D664	1100114
D1-D18, D23-D28	PARTS LIST	A-PL-M508-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

PARTS LIST

DRN	DATE	TRANSISTOR & DIODE CONVERSION CHART	TITLE
CHK'D	DATE	DEC EIA	BUS CONVERTER M508
ENG.	DATE	DEC3009B 2N3009	digital
PROD	DATE	D662 1N645	EQUIPMENT
	DATE	D664 1N3006	CORPORATION
	DATE		MAYNARD, MASSACHUSETTS
	DATE		PRINTED CIRCUIT REV.
	DATE		C

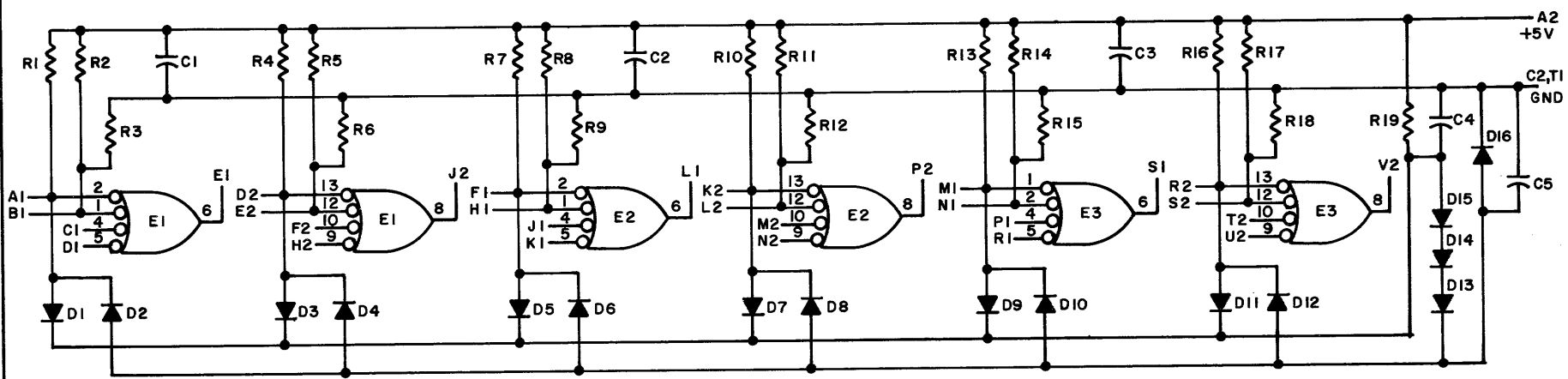
REVISIONS
CHK CHG NO REV
00001 A

DEC FORM NO
DRC 102

SIZE CODE
C CS
NUMBER
M508-0-1
REV.
A

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REV. 1-0-919W B CS M516-0-1



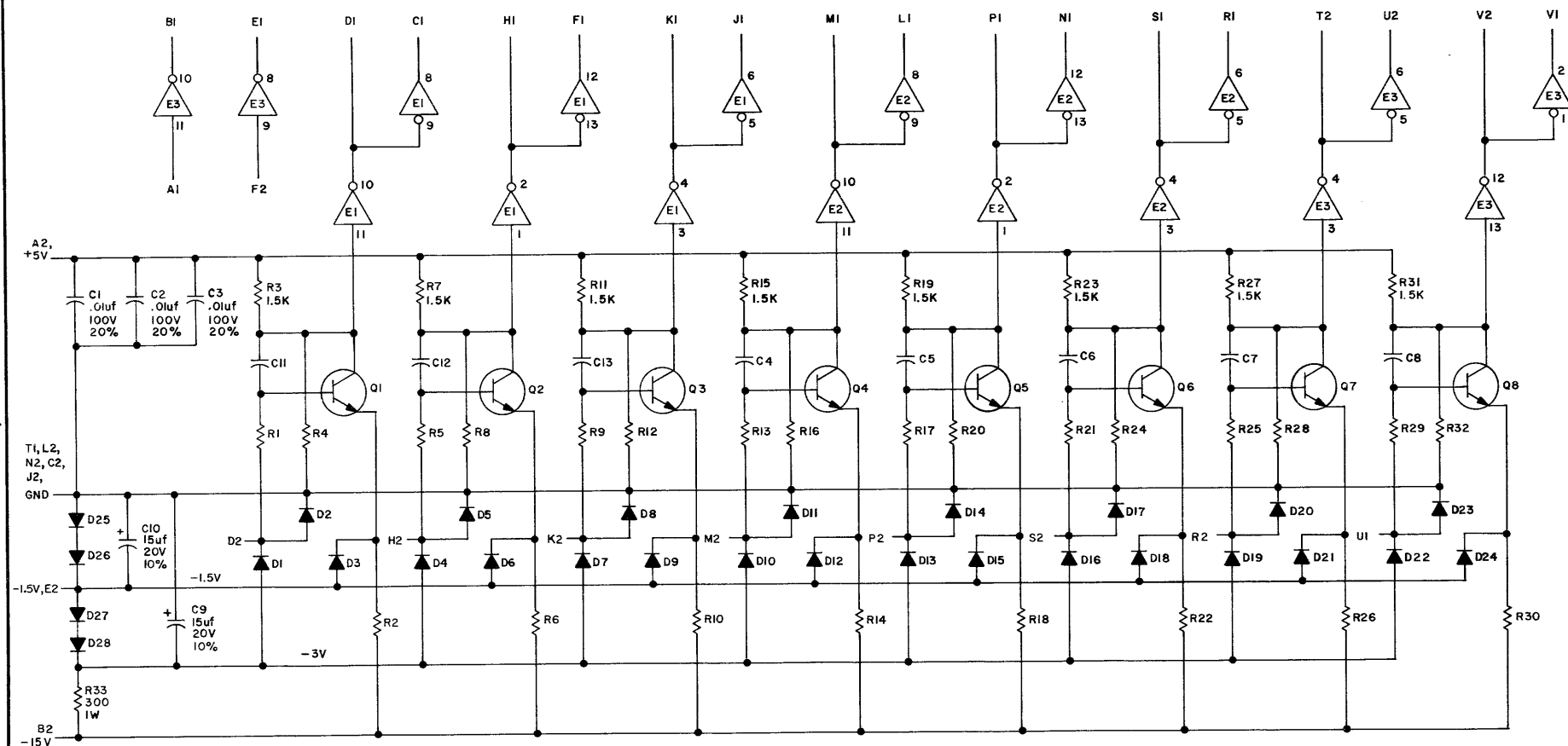
NOTES:
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V

E1-E3	INTEGRATED CKT. DEC7420N	1905577
R19	RES. 330 1/4W 5% CC	1300295
R3,R6,R9,R12,R15,R18	RES. 1.5K 1/4W 5% CC	1300391
R2,R5,R8,R11,R14,R17	RES. 750 1/4W 5% CC	1301401
R1,R4,R7,R10,R13,R16	RES. 220 1/4W 5% CC	1300271
D13-D16	DIODE D662	1100113
D1-D12	DIODE D664	1100114
C1-C5	CAP. .01MFD 100V 20% DISC	1001610
PARTS LIST		A-PL-M516-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

REVISIONS CHK CHG NO. REV.	DRN. <i>M. Walker</i>	DATE 6-20-68	TRANSISTOR & DIODE CONVERSION CHART		digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE POSITIVE BUS RECEIVER M516		
	CHK'D <i>R. S. Smith</i>	DATE 6-20-68	DEC	EIA		SIZE B	CODE CS	NUMBER M516-0-1
	ENG. <i>J. C. Smith</i>	DATE 7/1/68	DEC	EIA		PRINTED CIRCUIT REV.	A	
	PROD.	DATE						

Dist 1 324 434 435

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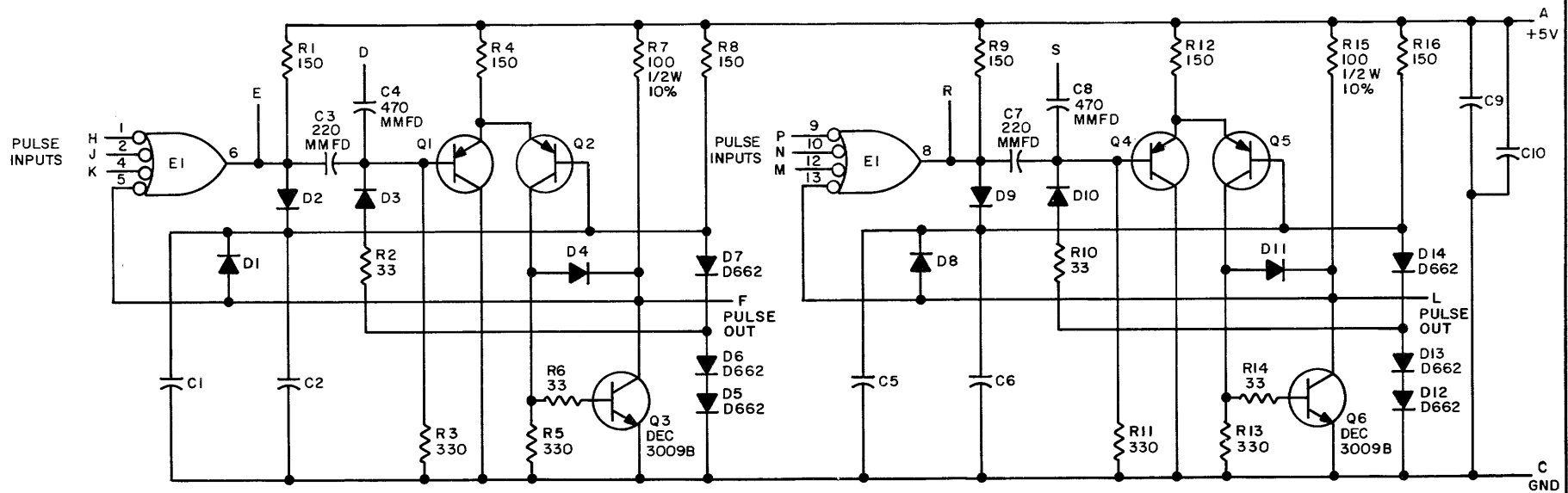


UNLESS OTHERWISE INDICATED:
RESISTORS ARE 3K, 1/4W, 5%
DIODES ARE D664
CAPACITORS ARE 150 pf, 100V, 5%
TRANSISTORS ARE DEC3009B
IC'S ARE DEC7404

REVISIONS		CHK'D. <i>R. Williams</i>		DATE <i>9/5/70</i>		TRANSISTOR & DIODE CONVERSION CHART				TITLE	
1	100001	ENG. <i>W. Sullivan</i>		DATE <i>4/8/70</i>		DEC	EIA	DEC	EIA	NEGATIVE BUS CONVERTER	
		PROD. <i>W. Sullivan</i>		DATE <i>6/9/70</i>		DEC3009B	2N3009			EQUIPMENT CORPORATION	
						D664	IN3606			SIZE C CODE CS NUMBER M531-0-1 REV. A	
										PRINTED CIRCUIT REV. A	

REV. B
NUMBER M602-0-1
CS B
SIZE 300 31

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UNLESS OTHERWISE INDICATED:
TRANSISTORS ARE DEC3639B
DIODES ARE D664
RESISTORS ARE 1/4W, 5%
CAPACITORS ARE .01 MFD
PIN 7 ON IC = GND
PIN 14 ON IC = +5V
IC IS DEC74H40N

< A V O L T S >

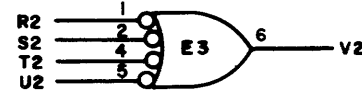
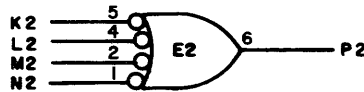
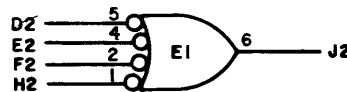
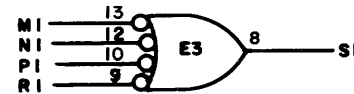
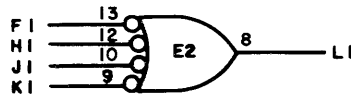
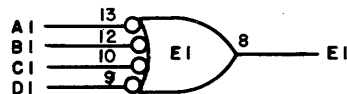
REVISIONS		CHK'D	DATE	TRANSISTOR & DIODE CONVERSION CHART				TITLE	
1	6720	6-1-67	6-1-67	DEC	EIA	DEC	EIA	PULSE GENERATOR M602	
2	6720	6-8-67	6-8-67	DEC3009B	2N3009			SIZE	CODE
3	6720	6-8-67	6-8-67	DEC3639B	2N3639			B	CS
4	6720	6-8-67	6-8-67	D662	IN645			NUMBER	
5	6720	6-8-67	6-8-67	D664	IN3606			M602-0-1	
PROD. I				DIGITAL EQUIPMENT CORPORATION				REV. B	
				MAYNARD, MASSACHUSETTS				PRINTED CIRCUIT REV. A	



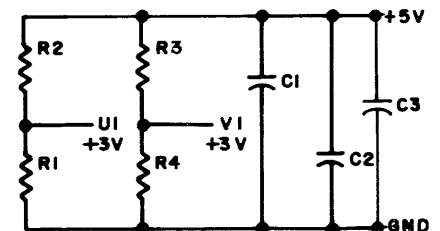
REV	E	NUMBER	M617-0-1	SIZE	B	CODE	CS
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+5V ——— A 2
NOT USED -15V ——— B 2
GND ——— C 2, T 1



NOTES:
PIN 7 ON EACH IC=GND
PIN 14 ON EACH IC=+5V



E1 THRU E3	INTEGRATED CKT. DEC7440N	1905579
R2 & R3	RES 330 1/4W 10% CC	1300293
R1 & R4	RES. 750 1/4W 5% CC	1301401
C1 & C2 & C3	CAP. .01MFD 100V 20% DISC	1001610
PARTS LIST		A-PL-M617-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

PARTS LIST

REV	CHG	NO	REV
6422	A		
6824	B		
00001	C		
00002	D		
00003	E		

DRN.	DATE
W. Walker	3-15-67
CHK'D	DATE
M. Morgan	4-21-67
ENG	DATE
J. White	4-21-67
PROD.	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital
EQUIPMENT
CORPORATION
MAYNARD MASSACHUSETTS

TITLE			
6-4 INPUT NOR BUFFERS M617			
SIZE	CODE	NUMBER	REV.
B	CS	M617-0-1	E
PRINTED CIRCUIT REV.			
A			

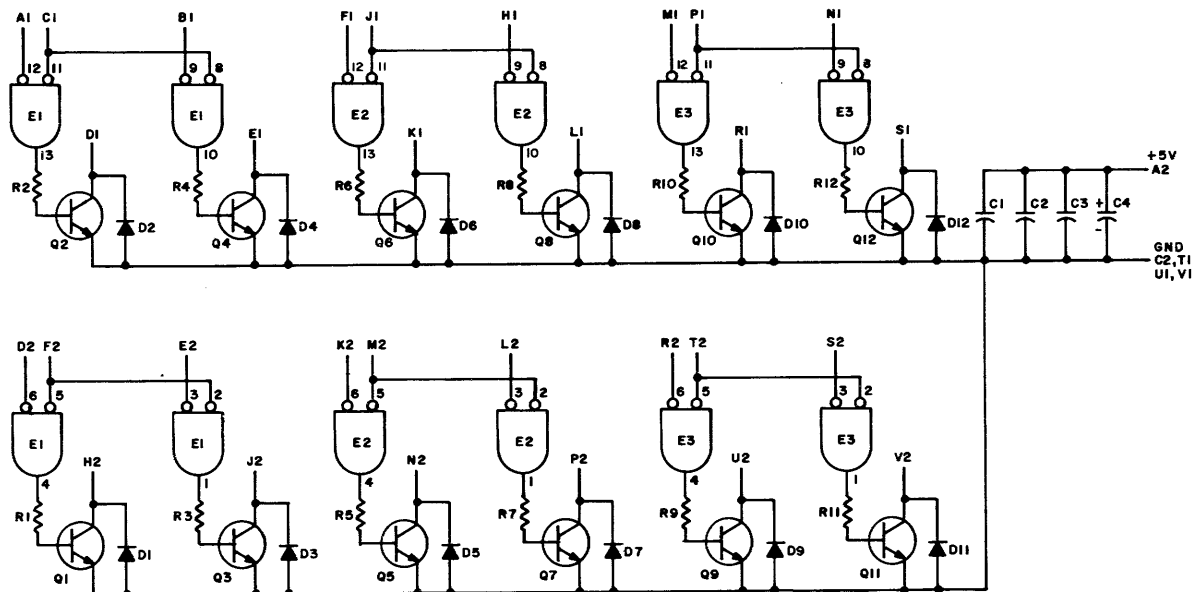


Pink

5

DIST. 324 434 #358

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NOTES:
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V

E1 - E3	INTEGRATED CKT. DEC7402	1909004
Q1 - Q12	TRANSISTOR DEC3009B	1503100
R1 - R12	RES. 390 1/4W 5% CC	1300309
D1 - D12	DIODE D664	1100114
C4	CAP. 6.8MFD 35V 20% STANT	1000087
C1 - C3	CAP. .01MFD 100V 20% DISC	1001610
PARTS LIST		A-PL-M623-O-O
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

REV.	CHK	ENG	NO.	REV.
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5

DEC FORM NO.
DRC 102

DRN. *M. Hall*
CHK'D *M. Hall*
DATE *6-7-68*
DATE *6/10/68*
DATE *6/10/68*
DATE *6/10/68*

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D664	1N3406		
DEC3009B	2N3009		

digital		BUS DRIVER M623	
EQUIPMENT CORPORATION	SIZE	CODE	NUMBER
MAYNARD, MASSACHUSETTS	C	CS	M623-O-1
PRINTED CIRCUIT REV.	DE		

PINK

5

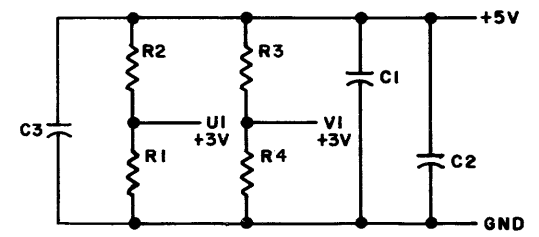
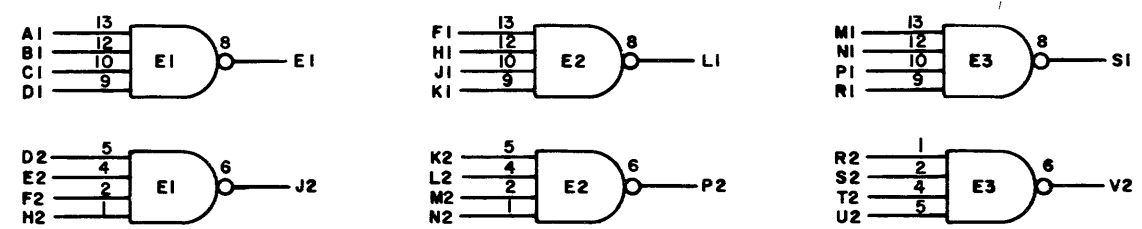
Dist. 324/434/435

REV. E
NUMBER M623-O-1
SIZE CODE C CS

SIZE CODE B CS
NUMBER M627-0-1
REV F

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+5V ——— A2
NOT USED -15V ——— B2
GND ——— C2, T1



NOTES:
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V

E1 THRU E3	INTEGRATED CKT. DEC74H40	1905586
R2 & R3	RES. 330 1/4W 10% CC	1300293
R1 & R4	RES. 750 1/4W 5% CC	1301401
C1 THRU C3	CAP. .01 MFD 100V 20% DISC	1001610
PARTS LIST		A-PL-M627-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

PARTS LIST

REV	CHG	NO	REV
1	6825	A	
2	00001	B	
3	00002	E	
4	00003	F	

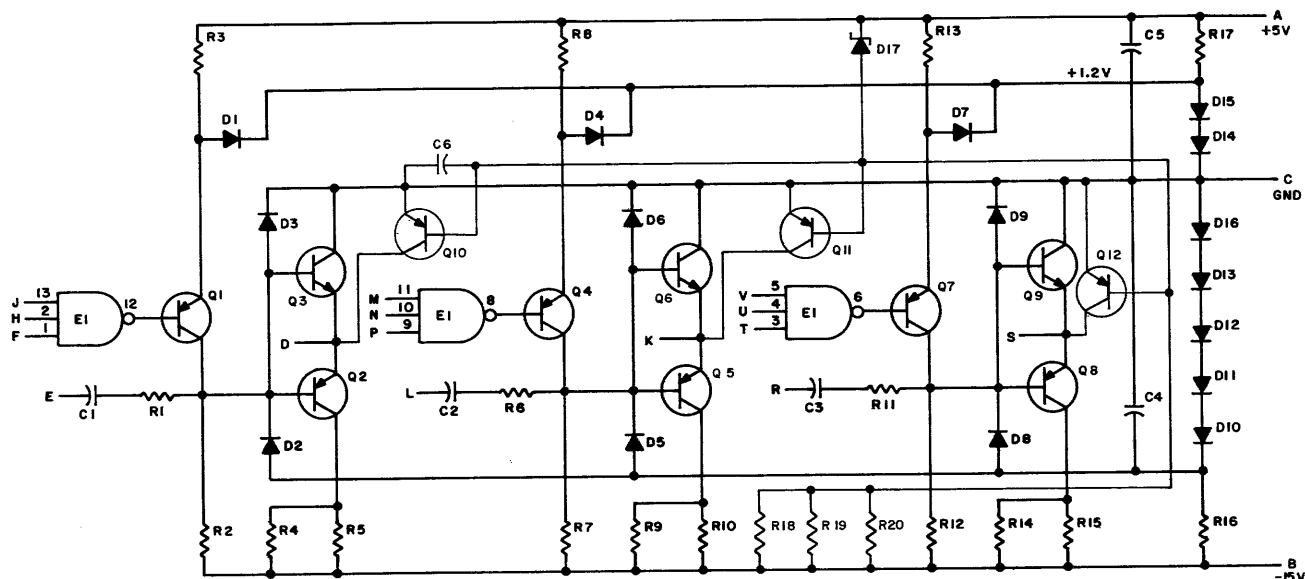
DRN. <i>M. Noller</i>	DATE 7-18-67
CHK'D <i>[Signature]</i>	DATE 7/19/67
ENG <i>[Signature]</i>	DATE 7/19/67
PROD <i>[Signature]</i>	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital
EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE POWER AMPLIFIER MODULE M627			
SIZE B	CODE CS	NUMBER M627-0-1	REV. F
PRINTED CIRCUIT REV. A			

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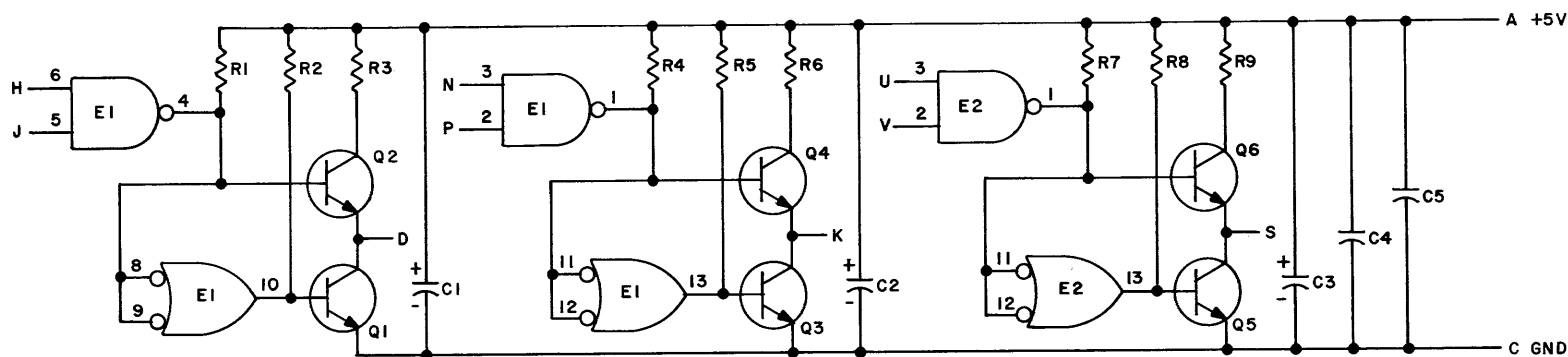
E1	INTEGRATED CKT. DEC7410N	1905576
Q3, Q6, Q9	TRANSISTOR DEC 3009 B-S	1503100
Q1, Q2, Q4, Q5, Q7, Q8, Q10, Q11, Q12	TRANSISTOR DEC 6534B	1503409-01
R16, R18, R19, R20	RES. 15K 1/4W 5% CC.	1300391
R4, R5, R9, R10, R14, R15	RES. 1K 1/4W 5% CC.	1300365
R3, R8, R13	RES. 470 1/4W 10% CC.	1300317
R2, R7, R12, R17	RES. 3K 1/4W 5% CC.	1300432
R1, R6, R11	RES. 82 1/4W 10% CC.	1300224
D17	DIODE IN750A	1100124
D10 - D16	DIODE D662	1100113
D1 - D9	DIODE D664	1100114
C4, C5, C6	CAP. .01 MFD 100V 20% DISC.	1001610
C1, C2, C3	CAP. 330 MMF 100V 5% D.M.	1000023
PARTS LIST		A-PL-M651-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

REVISIONS CHG NO. REV. B 000001		DEC FORM NO. DRC 102		DATE 2-5-69 DATE 2-17-69 DATE 2-17-69		TRANSISTOR & DIODE CONVERSION CHART DEC EIA DEC6534B 2N3009 D662 IN645 D664 IN3606 IN750A SAME		digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		TITLE NEGATIVE OUTPUT CONVERTER M651 NUMBER M651-0-1 PRINTED CIRCUIT REV. AC		REV B	
--	--	----------------------	--	---	--	--	--	--	--	--	--	-----------------	--

REV. B
NUMBER
M651-0-1
C CS

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REV. A
NUMBER 1-0-099W
SIZE CODE B CS



NOTES:
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V

E1, E2	INTEGRATED CKT. DEC7401N	1905590
Q1 - Q6	TRANSISTOR DEC3009B-S	1503100
R3, R6, R9	RES. 27 1/2W 5% CC	1302253
R2, R5, R8	RES. 1.5K 1/4W 5% CC	1300391
R1, R4, R7	RES. 470 1/4W 5% CC	1300316
C4, C5	CAP. .01MFD 100V 20% DISC	1001610
C1 - C3	CAP. 6.8MFD 35V 20% S.TANT	1000067
PARTS LIST		A-PL-M660-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

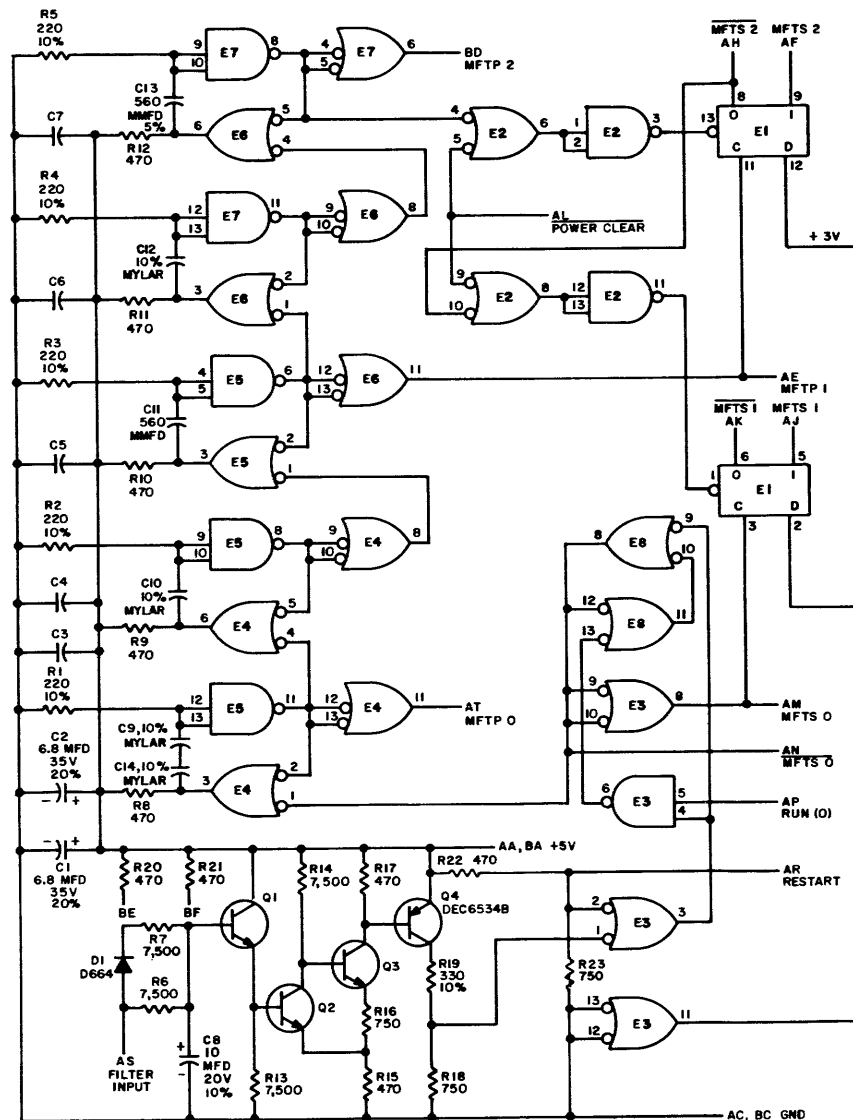
PARTS LIST

REVISIONS CHK CHG NO. REV. 1 00001 A	DRN.	DATE	TRANSISTOR & DIODE CONVERSION CHART		digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE		SIZE B CODE CS NUMBER M660-0-1 PRINTED CIRCUIT REV.	REV. A
	CHK'D	DATE	DEC	EIA		POSITIVE			
	ENG.	DATE	DEC	EIA		LEVEL DRIVER M660			
	PROD.	DATE	DEC	EIA					

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UNLESS OTHERWISE INDICATED:
TRANSISTORS ARE DEC30098
CAPACITORS ARE .01 MFD, 100V, 20%
RESISTORS ARE 1/4W, 5%
E1 IS DEC7474
E2, E3, E4, E5, E6, E7, E8 ARE DEC7400
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V

PARTS LIST A-PL-M700-0-0



REV.	CHG	NO.	REV.
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5

DEC FORM NO. 102

DRN	DATE
Mr. Walker	9-27-67
CHKD	DATE
Mr. Walker	5/5/67
APP	DATE
Mr. Walker	5/5/67
PROD	DATE
Mr. Walker	2-3-68

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC30098	2N3009		
DEC65348	MPS6534		
D664	1N3606		

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE			
MANUAL TIMING GENERATOR M700			
SIZE	CODE	NUMBER	REV.
C	CS	M700-0-1	E
PRINTED CIRCUIT REV.			
E			

PWK

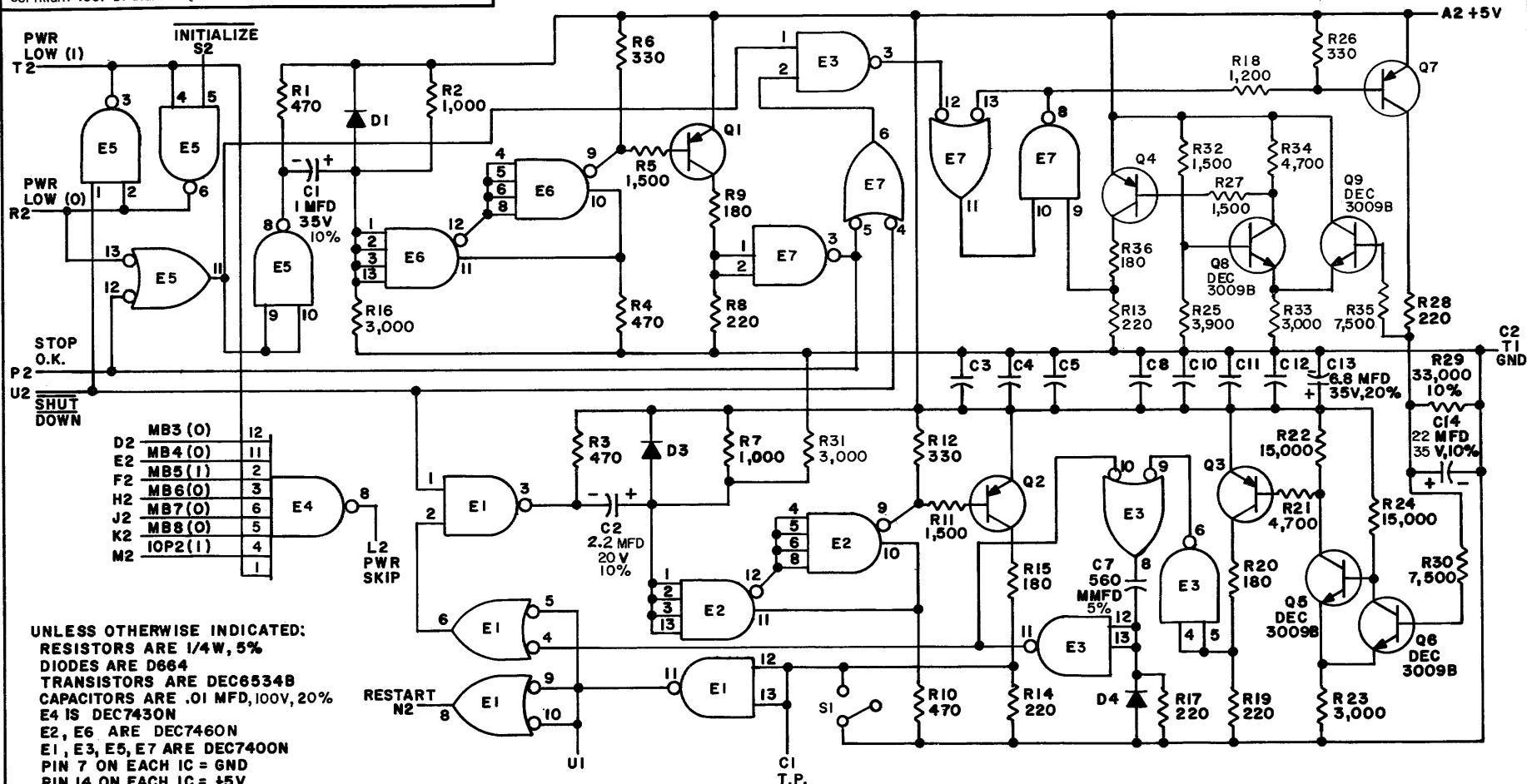
Dist. 324 434 435

5

REV. E
NUMBER
M700-0-1
CS

REV. J
NUMBER M703-0-1
SIZE CODE B
CS

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REV.	CHK	CHG	NO.	REV.
1	6	6	17	C
2	7	1	48	D
3	7	1	25	E
4	7	1	65	F
5	0	0	001	J
6	0	0	004	J

DRN.	DATE
M. Keller	9-27-67
CHK'D	DATE
PROD.	DATE
2	

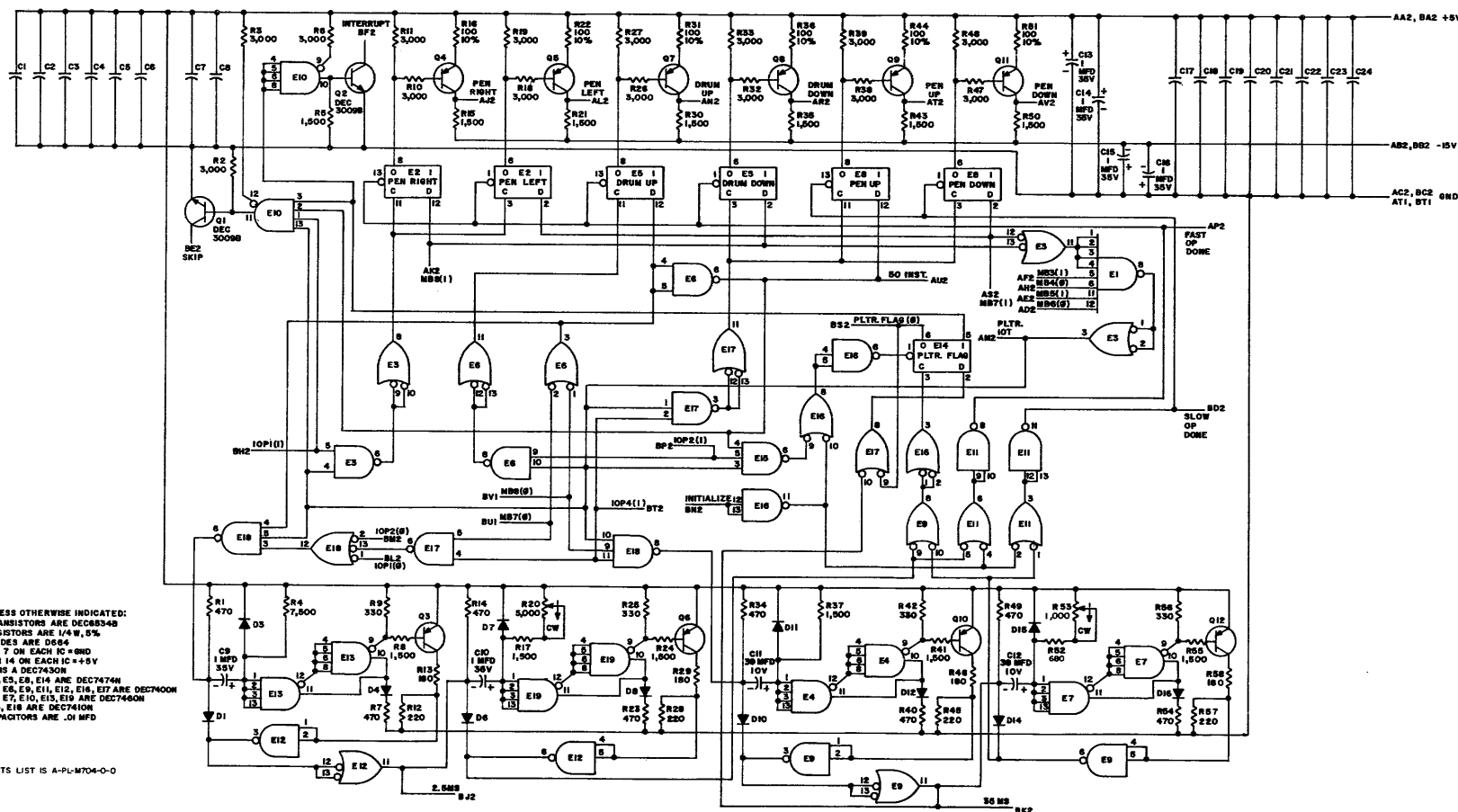
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC6534B	MPS6534		
D664	IN3806		
DEC3009B	2N3009		

digital
 EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

TITLE			
POWER FAIL M703			
SIZE	CODE	NUMBER	REV.
B	CS	M703-0-1	J
PRINTED CIRCUIT REV. J			

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3 1-0-904M CS 3
JAN 1968 10001 325

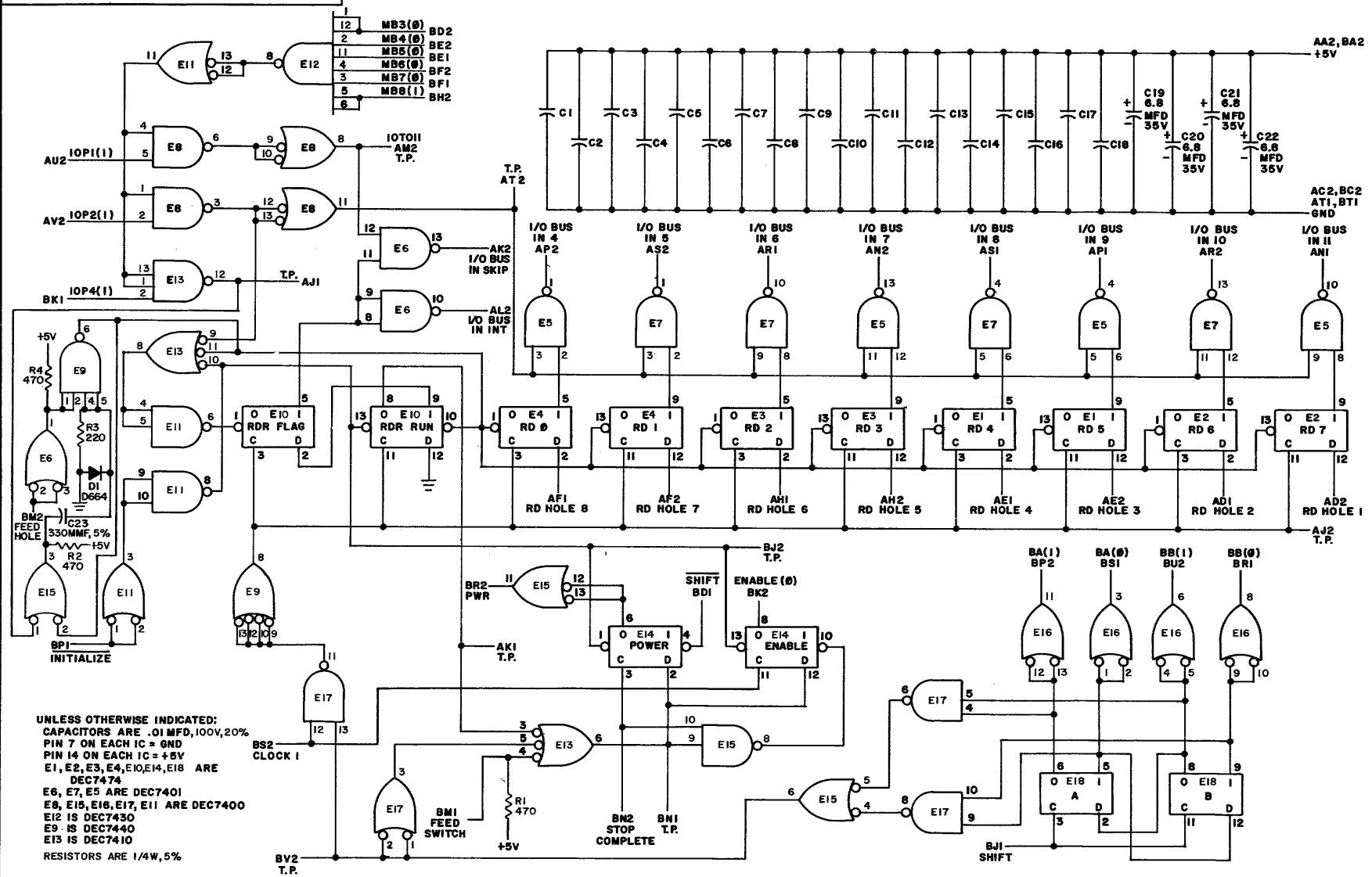


UNLESS OTHERWISE INDICATED:
TRANSISTORS ARE DEC68348
RESISTORS ARE 1/4W, 5%
DIODES ARE D684
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V
E1 IS A DEC7430R
E2, E3, E8, E9, E14 ARE DEC7474N
E5, E6, E9, E11, E12, E16, E17 ARE DEC7400N
E4, E7, E10, E13, E19 ARE DEC7460N
E15, E18 ARE DEC7400N
CAPACITORS ARE .01 MFD

PARTS LIST IS A-PL-M704-0-0

REV	DATE	BY	CHKD	APP'D	DESCRIPTION	TRANSISTOR & DIODE CONVERSION CHART	TITLE
1	1-30-67	DEC	EA				digital PLOTTER CONTROL M704
2	1-30-67	DEC	EA				
3	1-30-67	DEC	EA				
4	1-30-67	DEC	EA				
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98	1-30-67	DEC	EA				
99	1-30-67	DEC	EA				
100	1-30-67	DEC	EA				

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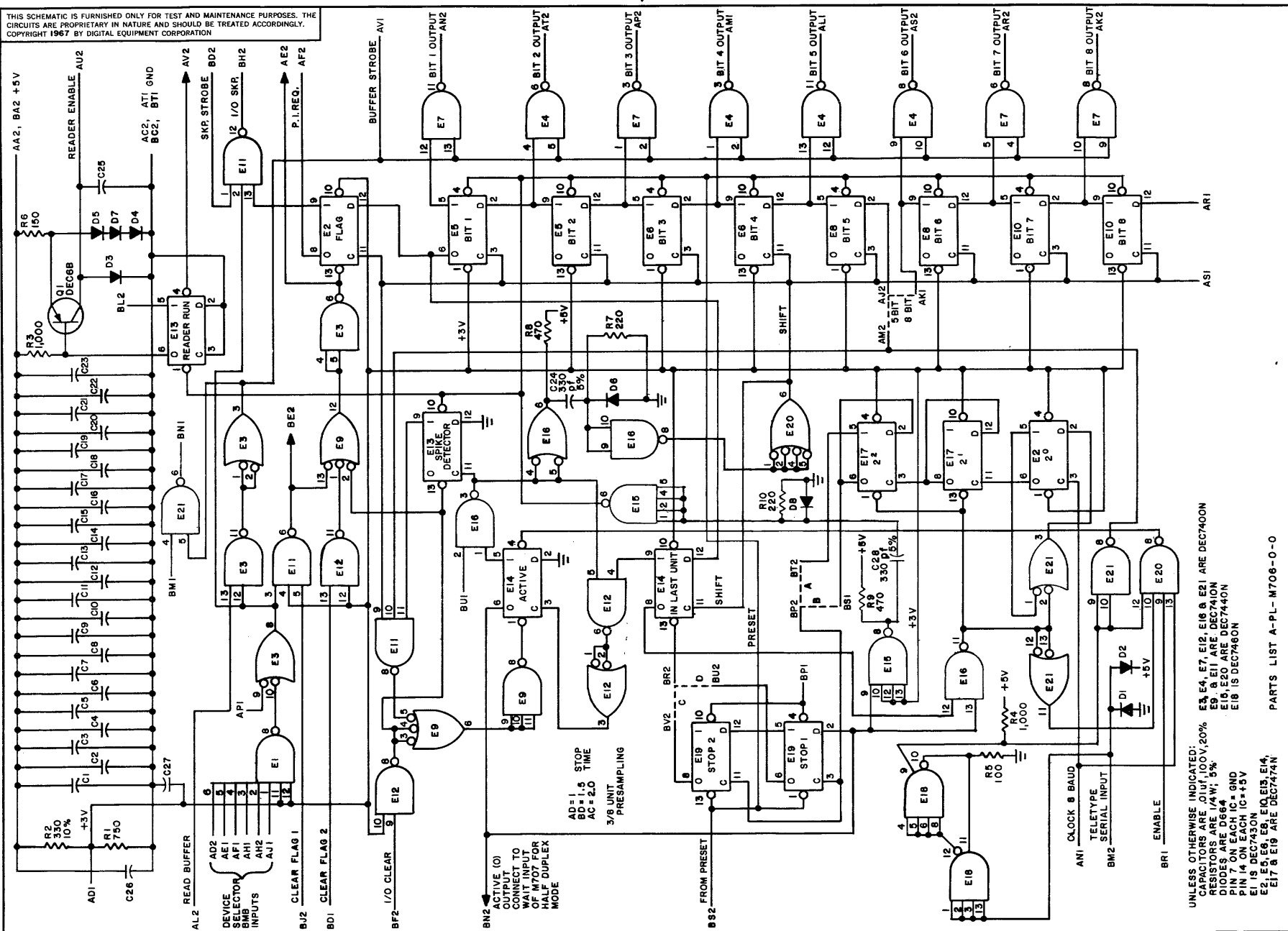
REV	NO	CHG	NO	REV
1	0001	0	0	0
2	0002	0	0	0
3	0003	0	0	0
4	0004	0	0	0
5	0005	0	0	0

DRN	DATE
CHK'D	DATE
ENG	DATE
PROD	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EMA	DEC	EMA
D684	IN645		

digital		EQUIPMENT CORPORATION		MAYNARD, MASSACHUSETTS	
SIZE	CODE	NUMBER	REV		
C	CS	M705-0-1	J		
PRINTED CIRCUIT REV. J					

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REV	CHG	NO	REV
1	5388	A	
2	5378	B	
3	7126	C	
4	7134	D	
5	00001	E	
6	00002	F	
7	00003	G	
8	00004	H	
9	00005	I	
10	00006	J	
11	00007	K	
12	00008	L	

DEC FORM NO. 102

DRN. *On Keller*
 DATE *4-2-67*
 CHK'D *D. Robinson*
 DATE *4/2/67*
 EDC *D. Roberto*
 DATE *6-1-67*
 PROD. DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3009B	2N5009		
DEC69	NONE		
D684	1N3408		

digital
 EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

TITLE			
TELETYPE RECEIVER M706			
SIZE	CODE	NUMBER	REV.
C	CS	M706-0-1	L
PRINTED CIRCUIT REV.			K

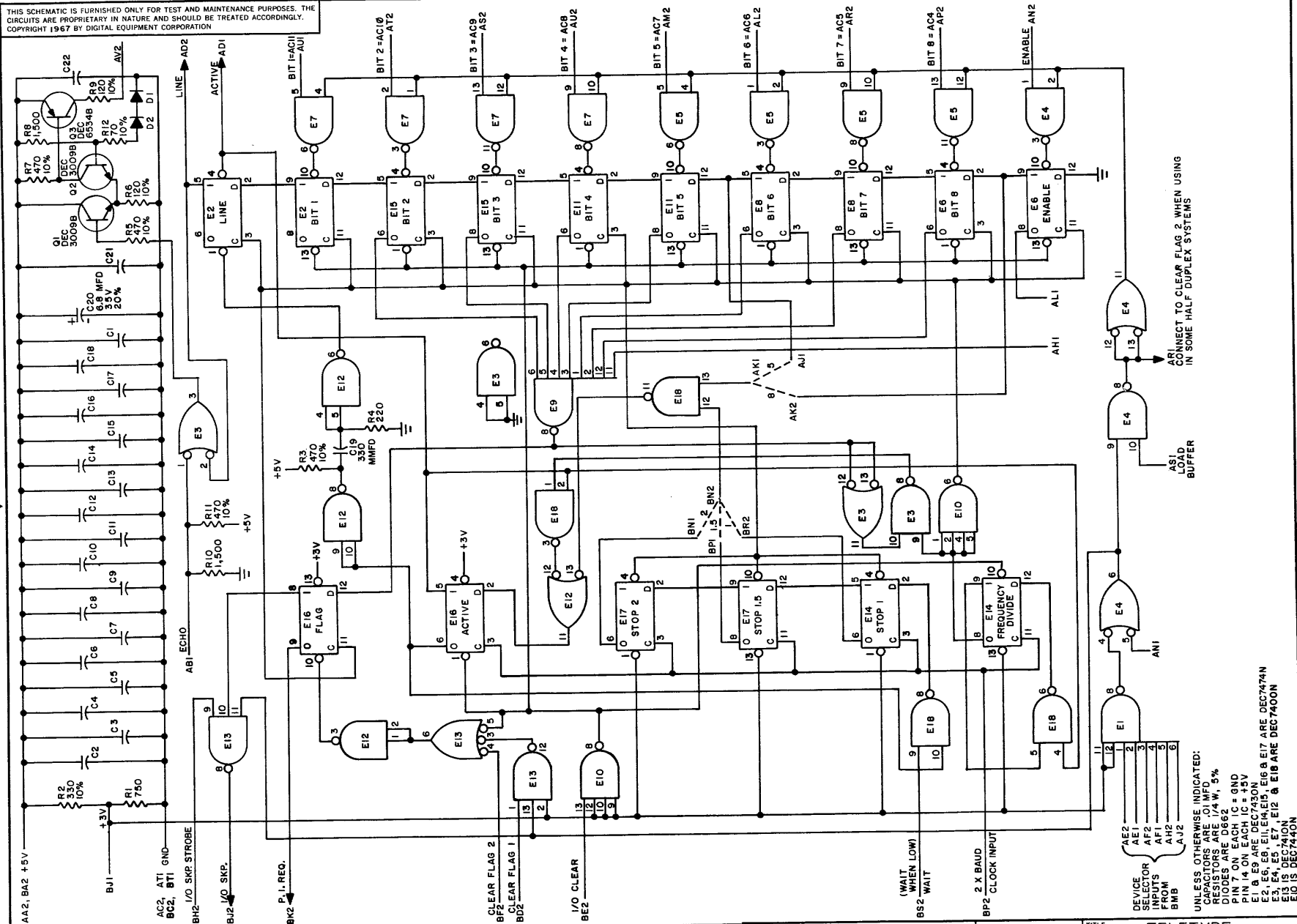
PARTS LIST A-PL-M706-0-0

SIZE	CODE	NUMBER	REV.
C	CS	M706-0-1	L

DIST. 324, 434, 436

PINK

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UNLESS OTHERWISE INDICATED:

CAPACITORS ARE .01MFD
RESISTORS ARE 1/4 W, 5%
DIODES ARE D662
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V
E1 & E9 ARE DEC7430N
E2, E6, E8, E11, E4, E15, E16 &
E3, E4, E5, E7, E12 & E18
E13 IS DEC7410N
E10 IS DEC7440N

REVISIONS		
CHK	CHG NO.	REV.
6387	A	
6579	B	
00001	C	
00002	C	
00004	D	

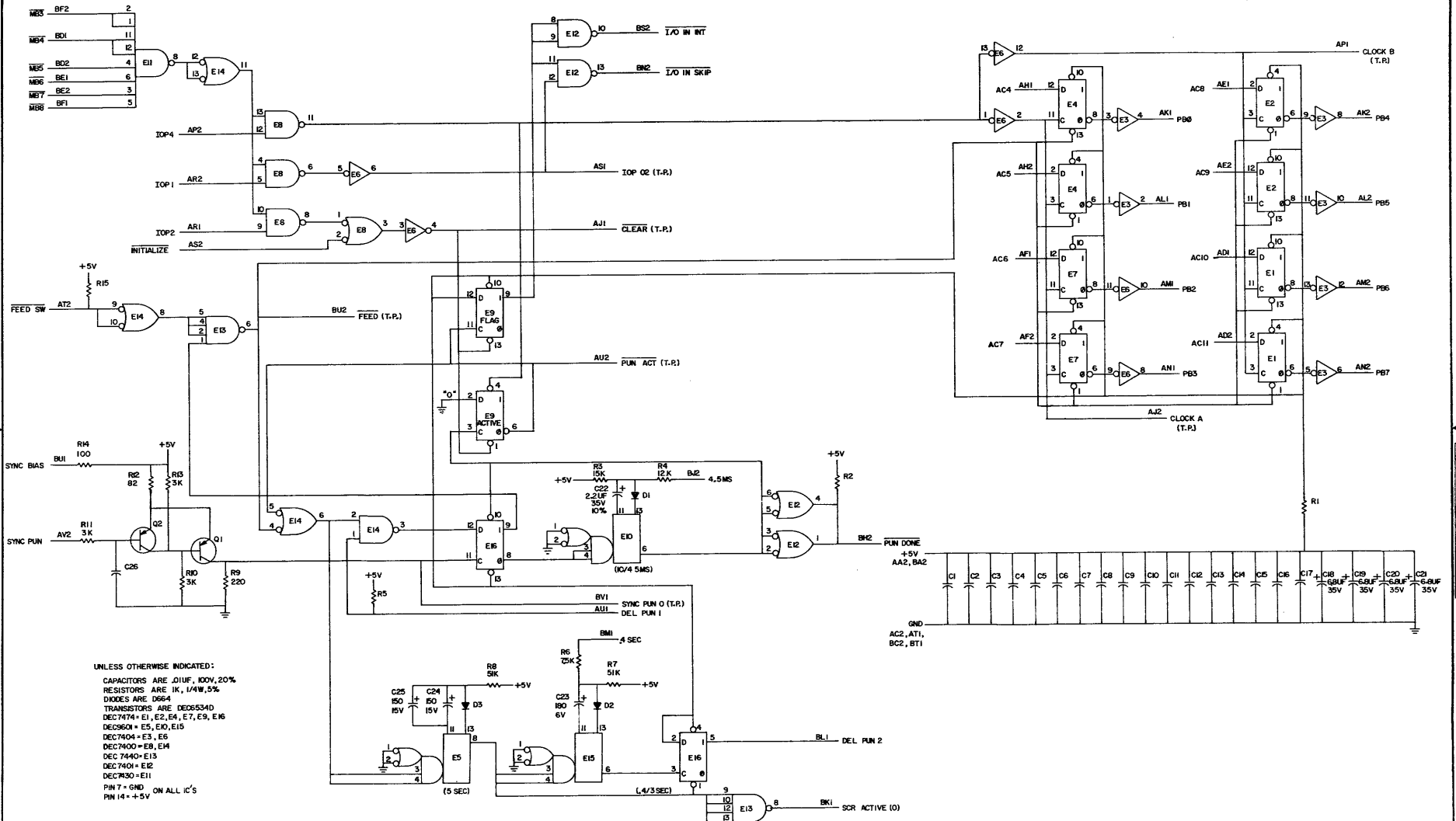
DRN. <i>M. Waller</i>	DATE <i>5-19-67</i>
CHK'D <i>R. Silberman</i>	DATE <i>5/25/67</i>
ENG. <i>Alan Roberts</i>	DATE <i>5-25-67</i>
PROD.	DATE

DEC	EIA	DEC	EIA
662	1N645		
3C009B	2N3009		
6C6534B	MPS6534		

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

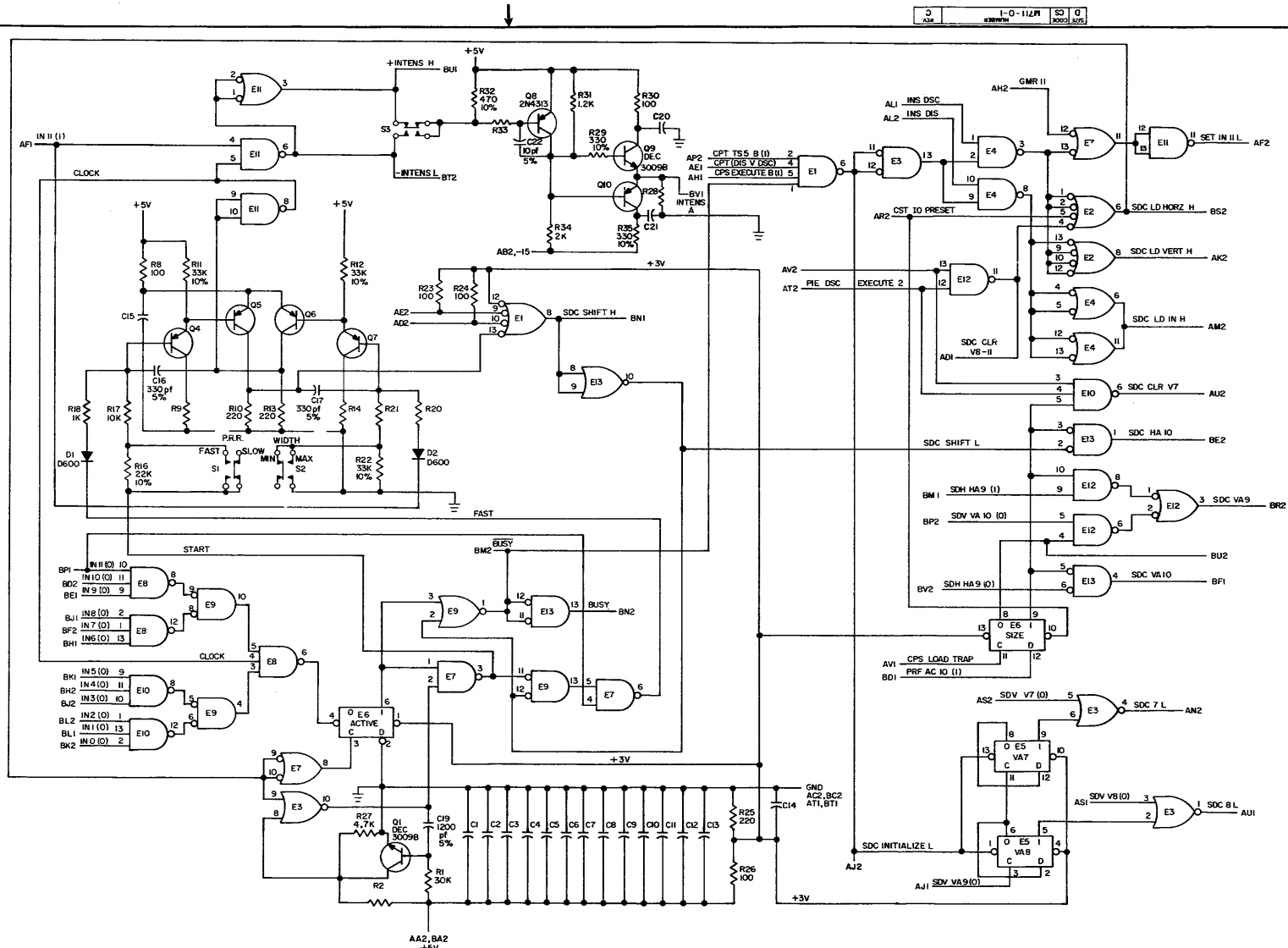
TITLE		TELETYPE TRANSMITTER M707									
SIZE	CODE	NUMBER								REV.	
C	CS	M707-0-I								D	
PRINTED CIRCUIT REV		D									

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REVISIONS		DATE		TRANSISTOR & DIODE CONVERSION CHART		TITLE	
REV	NO	DATE	BY	DEC	EIA	DEC	EIA
1	1	11-17-71	WJW	DEC	EIA	DEC	EIA
2	1	11-17-71	WJW	DEC	EIA	DEC	EIA
3	1	11-17-71	WJW	DEC	EIA	DEC	EIA
4	1	11-17-71	WJW	DEC	EIA	DEC	EIA
5	1	11-17-71	WJW	DEC	EIA	DEC	EIA
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11	1	11-17-71	WJW	DEC	EIA	DEC	EIA
12	1	11-17-71	WJW	DEC	EIA	DEC	EIA
13	1	11-17-71	WJW	DEC	EIA	DEC	EIA
14	1	11-17-71	WJW	DEC	EIA	DEC	EIA
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67	1	11-17-71	WJW	DEC	EIA	DEC	EIA
68	1	11-17-71	WJW	DEC	EIA	DEC	EIA
69	1	11-17-71	WJW	DEC	EIA	DEC	EIA
70	1	11-17-71	WJW	DEC	EIA	DEC	EIA
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90	1	11-17-71	WJW	DEC	EIA	DEC	EIA
91	1	11-17-71	WJW	DEC	EIA	DEC	EIA
92	1	11-17-71	WJW	DEC	EIA	DEC	EIA
93	1	11-17-71	WJW	DEC	EIA	DEC	EIA
94	1	11-17-71	WJW	DEC	EIA	DEC	EIA
95	1	11-17-71	WJW	DEC	EIA	DEC	EIA
96	1	11-17-71	WJW	DEC	EIA	DEC	EIA
97	1	11-17-71	WJW	DEC	EIA	DEC	EIA
98	1	11-17-71	WJW	DEC	EIA	DEC	EIA
99	1	11-17-71	WJW	DEC	EIA	DEC	EIA
100	1	11-17-71	WJW	DEC	EIA	DEC	EIA

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UNLESS OTHERWISE INDICATED:

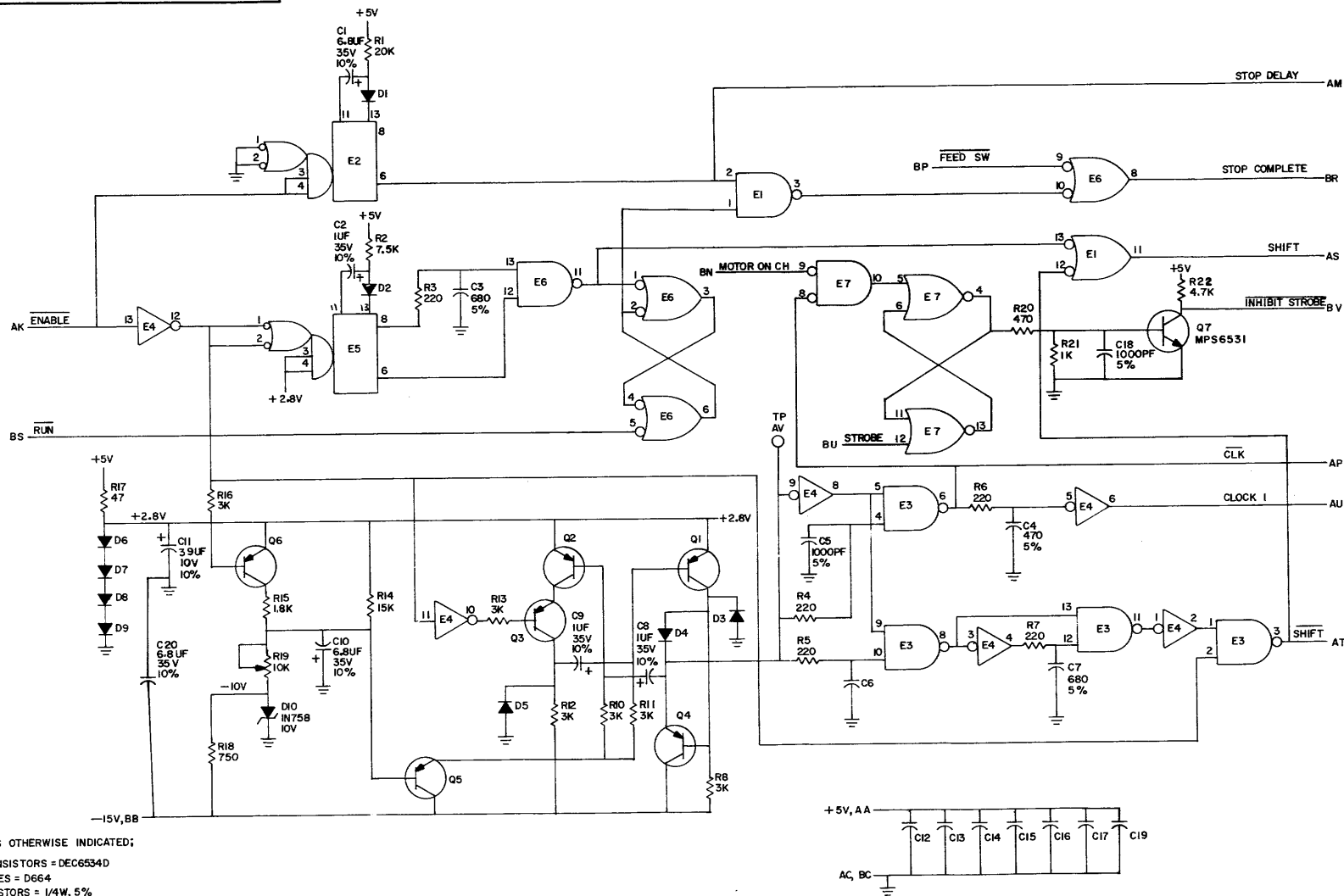
TRANSISTORS ARE DEC36398
CAPACITORS ARE .01 MFD, 100V, 20%
RESISTORS ARE 2.2K, 1/4W, 5%
S1, S2, S3 ARE 1209698
E5, E6 ARE DEC7474
E4, E7, E11, E12 ARE DEC7400
E3, E9, E13 ARE DEC7402
E8, E10 ARE DEC7410
E1, E2 ARE DEC7440
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V

REV	DATE	BY	CHKD	APP'D
1	10/1/69	WJL		
2	10/1/69	WJL		
3	10/1/69	WJL		
4	10/1/69	WJL		

TRANSISTOR	DIODE	CONVERSION	CHART
DEC 36398	2N 3639	DEC 36398	2N 3639
DEC 36398	2N 3639	DEC 36398	2N 3639
DEC 36398	2N 3639	DEC 36398	2N 3639

TITLE	SCOPE CONTROL M711
EQUIPMENT	SCOPE CONTROL M711
DESIGNER	WJL
DATE	10/1/69
REV	C

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UNLESS OTHERWISE INDICATED:

TRANSISTORS = DEC6534D
DIODES = D664
RESISTORS = 1/4W, 5%
CAPACITORS = .01UF, 100V, 20%
E1, E3, E6 = DEC7400
E4 = DEC7404
E2, E5 = DEC9601
PIN 7 = GND ON ALL IC'S
PIN 14 = +5V
E7 = DEC7402

REV	CHG	NO	REV
AY	00002	E	X
REV	8	RED	
CANCELS			
ECO	00003		

DEC FORM NO
DRC 102

DRN M. HALLER
CHK'D R. SILVERMAN
ENG. R. G. SOGGE
PROD. DATE

DATE 10/16/67
DATE 11/2/67
DATE 11/2/67
DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC6534D	MPS6534	IN758	SAME
D664	IN3606		
DEC6531	MPS6531		

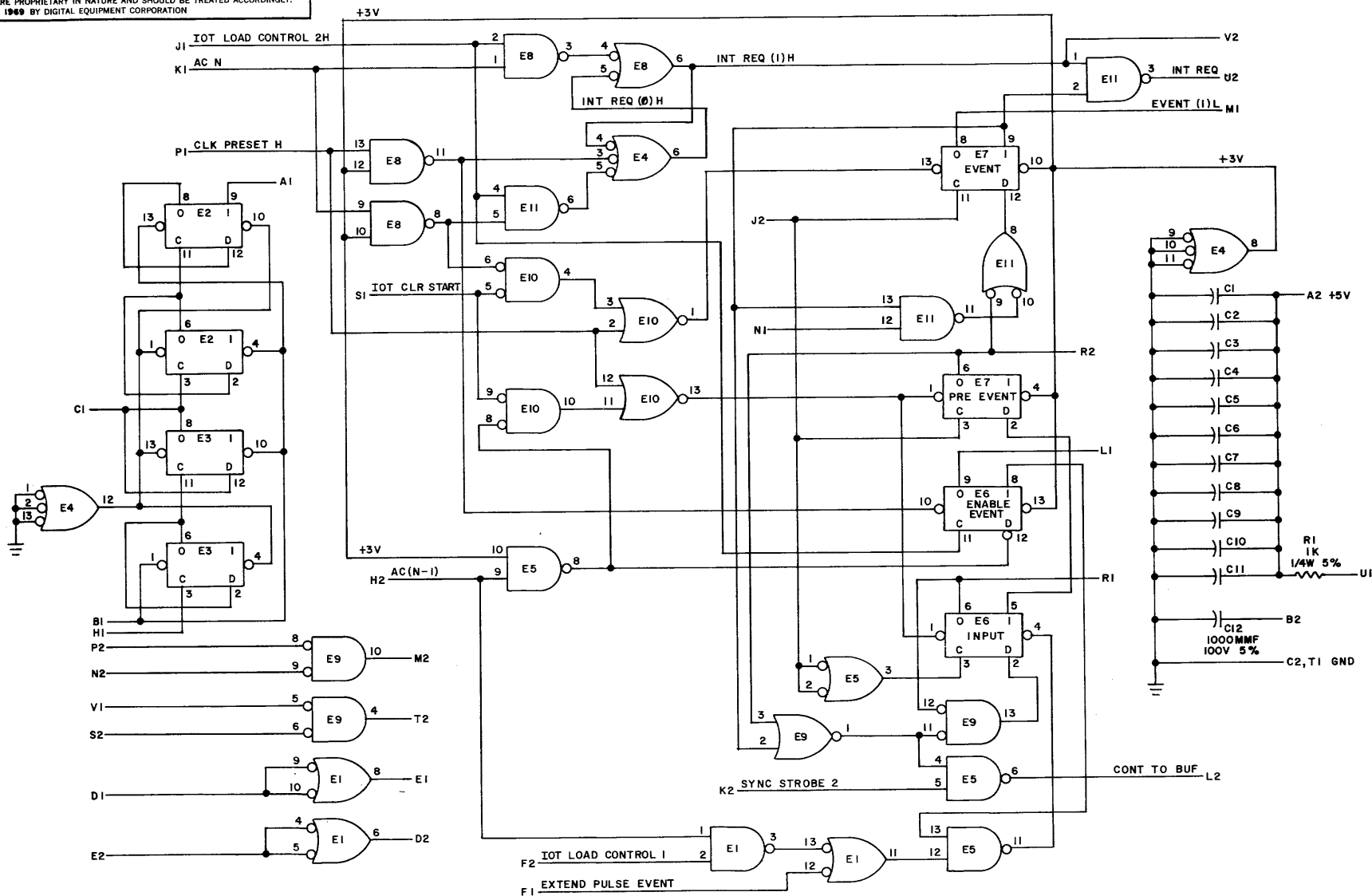
digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
READER CLOCK M715

SIZE	CODE	NUMBER	REV
C	CS	M715-0-1	K
PRINTED CIRCUIT REV.			E

REV. K
NUMBER M715-0-1
SIZE CODE C CS

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UNLESS OTHERWISE INDICATED:
CAPACITORS ARE .01MFD
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V
E1, E5, E8, E11 ARE DEC7400N
E2, E3, E6, E7 ARE DEC7474N
E4 IS DEC7410N
E9, E10 ARE DEC7402N

REV.	CHG.	NO.	REV.

DRN	DATE
M. Waller	4-9-69
CHK'D	DATE
M. M. M. M.	4-10-69
ENG.	DATE
PROD.	DATE

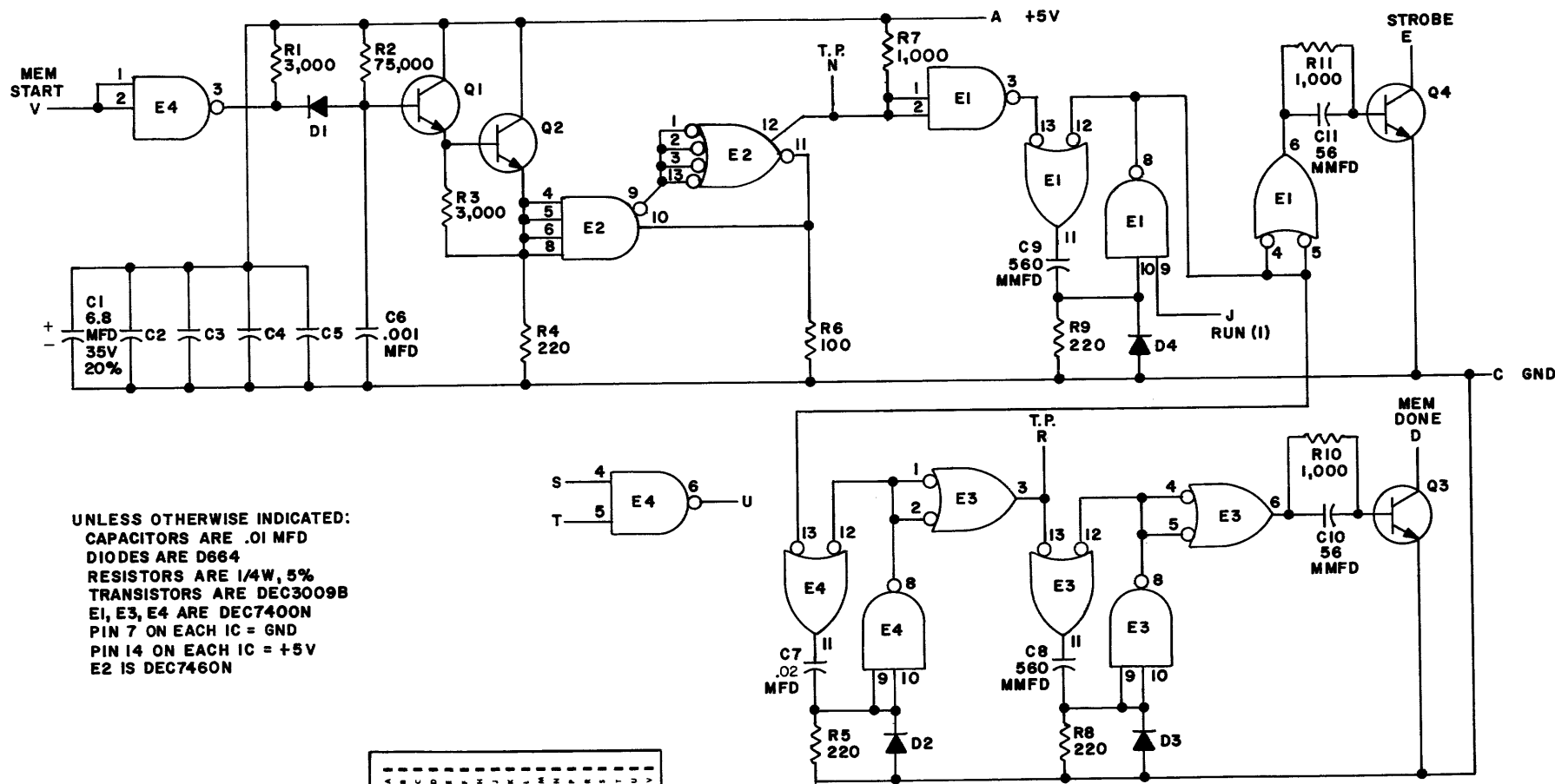
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE KW12 CLOCK INPUT SYNCHRONIZER M719			
SIZE	CODE	NUMBER	REV.
C	CS	M719-0-1	
PRINTED CIRCUIT REV			A

SIZE CODE NUMBER
C CS M719-0-1 REV.

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REV.	CHK	CHG	NO.	REV.	A
1			00001		

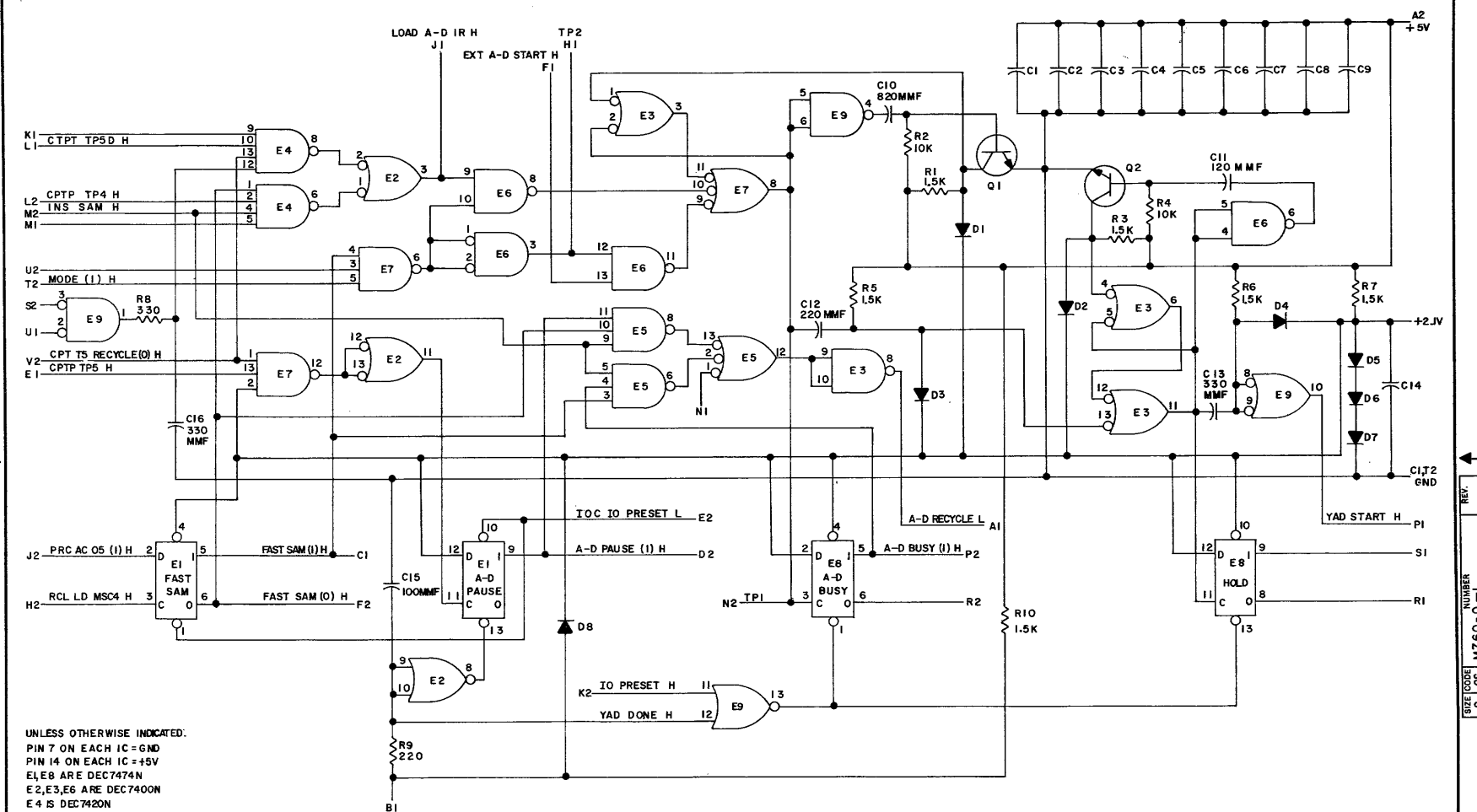
DRN.	DATE
M. Waller	9-28-67
CHK'D	DATE
R. Johnson	9/28/67
ENG.	DATE
Boyle	9/28/67
PROD.	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3009B	2N3009		
D664	1N3606		

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE			
MEMORY DETECTION M720			
SIZE	CODE	NUMBER	REV.
B	CS	M720-0-1	A
PRINTED CIRCUIT REV.			

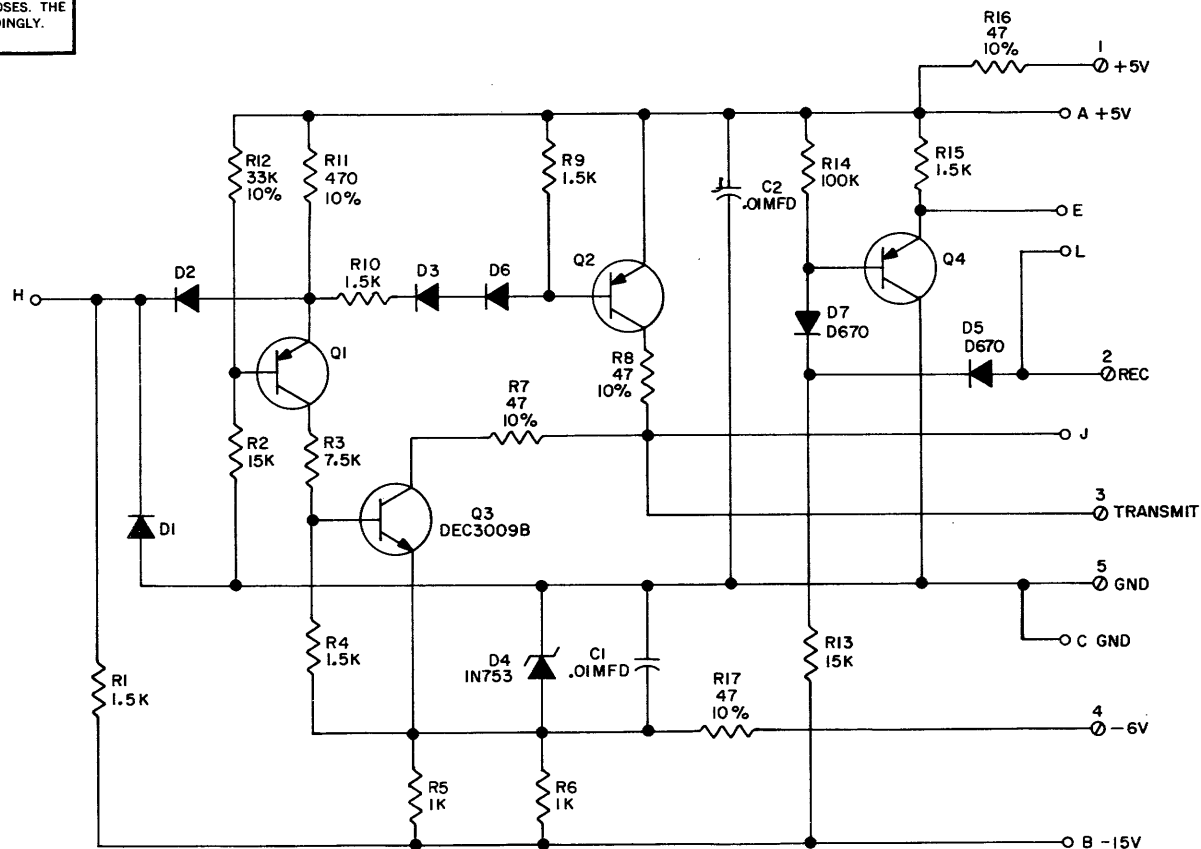
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CIRCUITS ARE PROPRIETARY IN NATURE AND SHOULD BE TREATED ACCORDINGLY.
COPYRIGHT 1969 BY DIGITAL EQUIPMENT CORPORATION



UNLESS OTHERWISE INDICATED:
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V
E1,E8 ARE DEC7474N
E2,E3,E6 ARE DEC7400N
E4 IS DEC7420N
E5,E7 ARE DEC7410N
E9 IS DEC7402N
CAPACITORS ARE .01MFD, 100V
DIODES ARE D664
RESISTORS ARE 1/4W 5%
TRANSISTORS ARE DEC 3009B

REVISIONS CHK CHG NO. REV.	DRN. <i>J. Blum</i> DATE <i>5-19-68</i> TRANSISTOR & DIODE CONVERSION CHART										digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE A-D CONTROL M760									
	CHKV. <i>L. J. [unclear]</i> DATE <i>5-20-68</i>											SIZE CODE NUMBER REV.									
	ENG. <i>R. [unclear]</i> DATE <i>7-8-68</i>											C CS M760-0-1									
	PROD. DATE											PRINTED CIRCUIT REV.									
	DEC EIA DEC EIA											D664 IN3606 DEC3009B 2N3009B									

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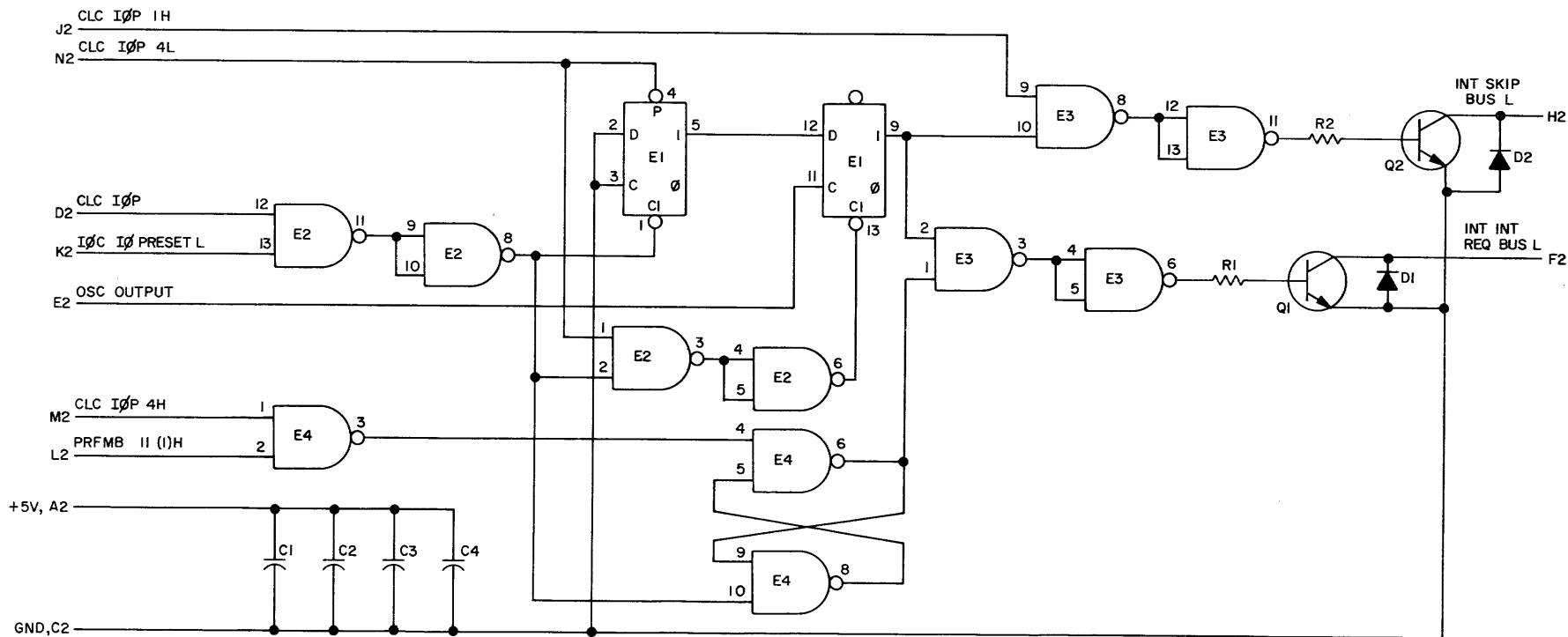


REV.	NUMBER	SIZE	CS
A	M850-0-1	B	CS

REVISIONS CHK CHG NO. REV. 00001 A		DRN. BUTLER DATE 6/2/69 CHK'D M. M. Butler DATE 6/3/69 ENG. J. S. K. H. G. DATE 6/3/69 PRQD. J. S. K. H. G. DATE 6/3/69	TRANSISTOR & DIODE CONVERSION CHART <table border="1"> <thead> <tr> <th>DEC</th> <th>EIA</th> </tr> </thead> <tbody> <tr> <td>DEC6534B</td> <td>MPS6534</td> </tr> <tr> <td>DEC3009B</td> <td>2N3009</td> </tr> <tr> <td>D664</td> <td>1N3606</td> </tr> <tr> <td>D670</td> <td>1N3653</td> </tr> </tbody> </table>	DEC	EIA	DEC6534B	MPS6534	DEC3009B	2N3009	D664	1N3606	D670	1N3653	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE CONVERTER AND CABLE CONNECTOR M850 SIZE B CODE CS NUMBER M850-0-1 REV. A PRINTED CIRCUIT REV. A
DEC	EIA														
DEC6534B	MPS6534														
DEC3009B	2N3009														
D664	1N3606														
D670	1N3653														

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REV. 1-0-0-1 M870-0-1

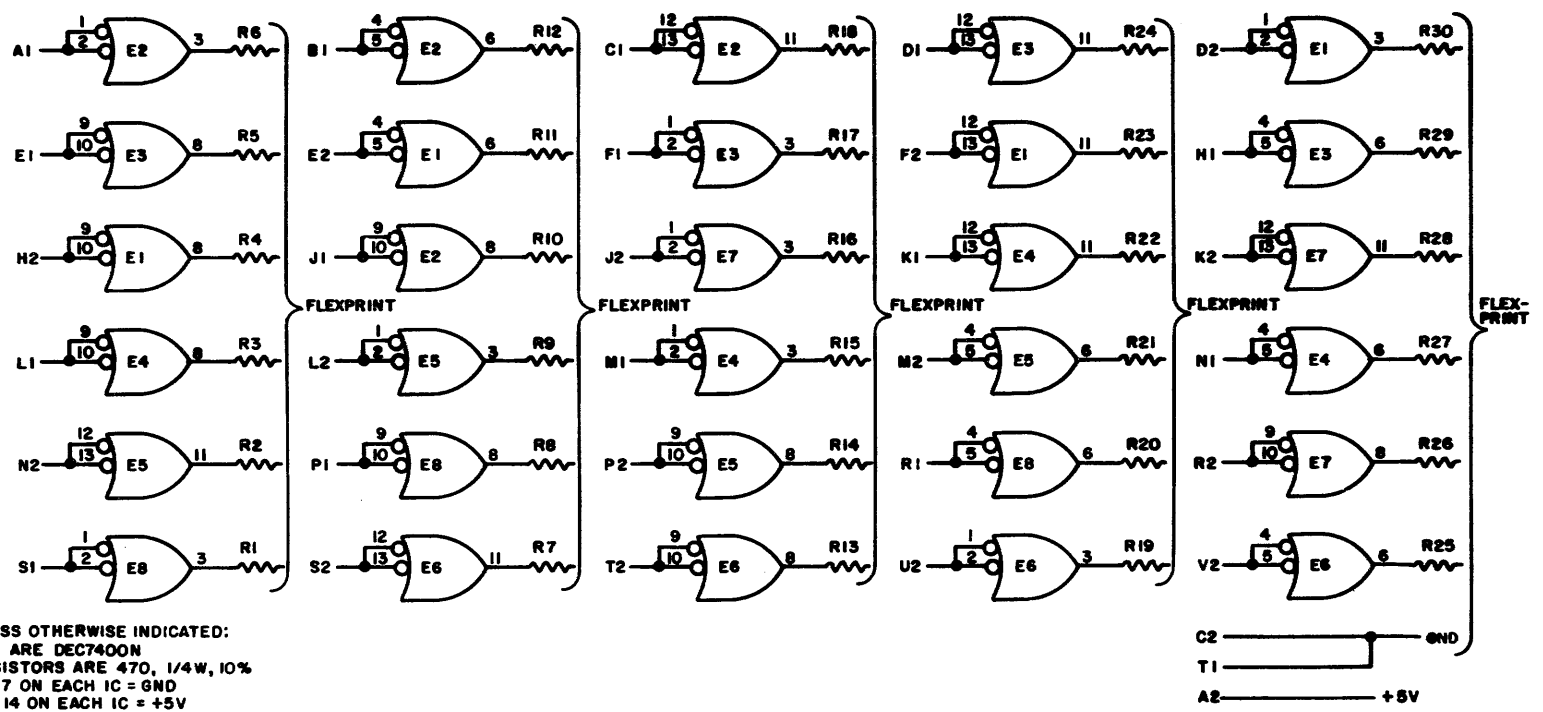


UNLESS OTHERWISE INDICATED:
RESISTORS ARE 390, 1/4W, 5%
CAPACITORS ARE .01MFD, 100V, 20%
TRANSISTORS ARE DEC3009B
DIODES ARE D664
E2, E3, E4 ARE DEC7400
E1 IS DEC7474
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V

REVISIONS CHK CHG NO REV 	DRN	BUTLER	DATE	1/19/70	TRANSISTOR & DIODE CONVERSION CHART				TITLE		SIMPLE CLOCK M870			
	CHK'D	<i>[Signature]</i>	DATE	3-13-70	DEC	EIA	DFC	EIA	digital		SIZE	CODE	NUMBER	REV
	ENG	<i>[Signature]</i>	DATE	5/25/70	D664	IN3606			EQUIPMENT CORPORATION		B	CS	M870-0-1	
	PROD	<i>[Signature]</i>	DATE	6/2/70	DEC3009B-S	2N3009B			MAYNARD, MASSACHUSETTS		PRINTED CIRCUIT REV			A

↓ 1-0-006W SC 8
REV. 1000 200

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REVISIONS CHK'D NO. REV. 1 DATE 7/15/67 BY [Signature] PROD. [Signature]		DRN. 20. Miller DATE 7-8-67 DATE 7/15/67 DATE 7/15/67 DATE 7/15/67		TRANSISTOR & DIODE CONVERSION CHART <table border="1"> <tr> <th>DEC</th> <th>EIA</th> <th>DEC</th> <th>EIA</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>				DEC	EIA	DEC	EIA																					TITLE PDP-8-1 CONSOLE CONNECTOR M900 EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS SIZE B CODE CS NUMBER M900-0-1 PRINTED CIRCUIT REV. CD			
DEC	EIA	DEC	EIA																																

DRG FORM NO. 102

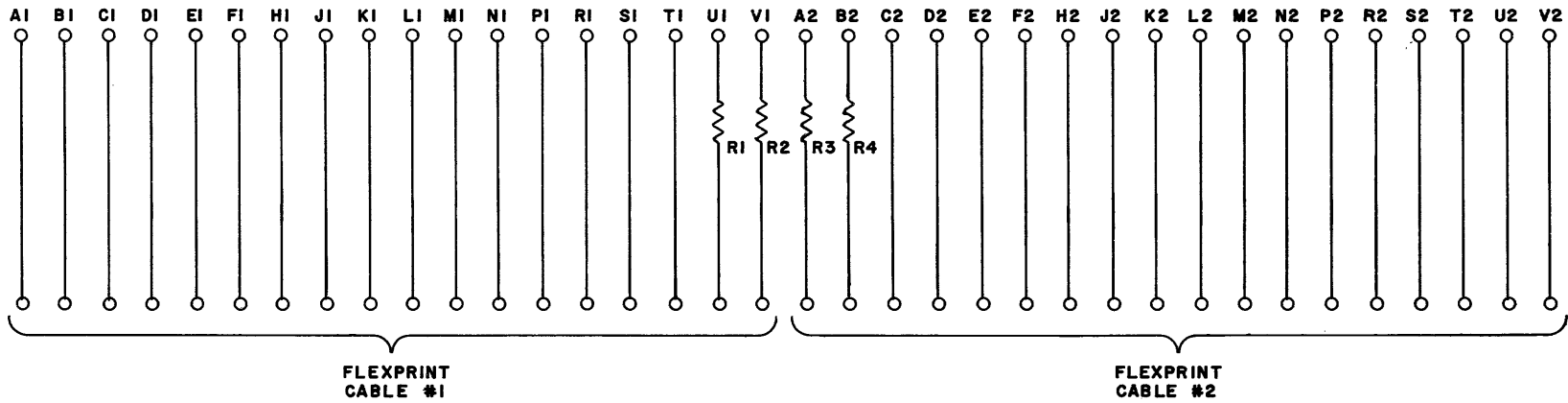
↑

DIST. 324,434,435 3 ± PINK



REV. C	NUMBER 1-0-106W	SIZE B	CODE CS
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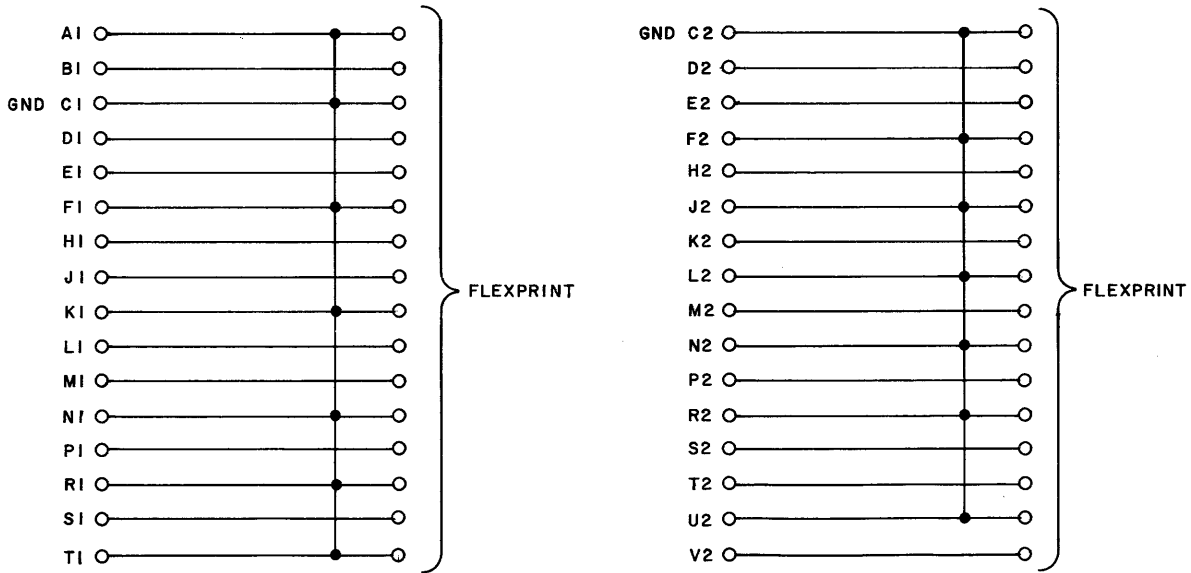
R1-R4	RES. 10 1/4W 10% CC	1300170
	PARTS LIST	A-PL-M901-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

REVISIONS CHK CHG NO. REV. C 123 00001	DRN. M. Waller	DATE 8-14-68	TRANSISTOR & DIODE CONVERSION CHART				digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE FLEXPRINT CABLE CONNECTOR M901			
	CHK'D M. Waller	DATE 8-19-68	DEC	EIA	DEC	EIA		SIZE B	CODE CS	NUMBER M901-0-1	REV. C
	ENG. M. Waller	DATE 11/5/68									
	PROD.	DATE									
							PRINTED CIRCUIT REV. B C				



REV.	NUMBER	SIZE	CODE
	M903-0-1	B	CS

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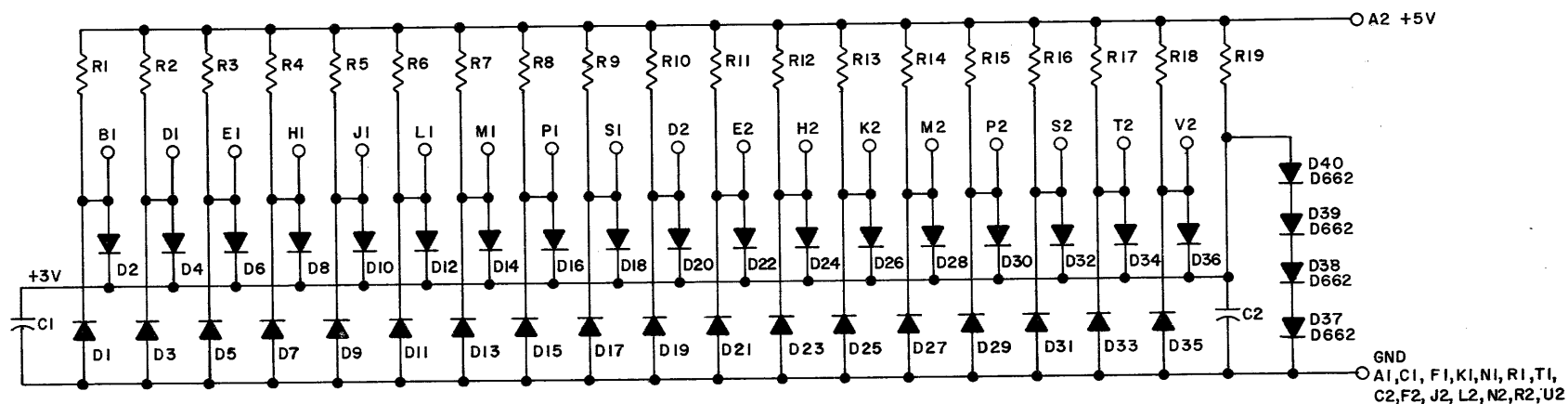
PARTS LIST IS A-PL-M903-0-0

REVISIONS CHK CHG NO. REV.	DRN.	DATE	TRANSISTOR & DIODE CONVERSION CHART				digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE CONNECTOR (FLEXPRINT) M903			
	CHK'D	DATE	DEC	EIA	DEC	EIA		SIZE	CODE	NUMBER	REV.
	ENG	DATE						B	CS	M903-0-1	
	PROD.	DATE									
							PRINTED CIRCUIT REV.				



REV. B
NUMBER M906-0-1
SIZE CODE B CS

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UNLESS OTHERWISE INDICATED:
RESISTORS ARE 220, 1/4W, 5%
DIODES ARE D664
CAPACITORS ARE .01 MFD, 100V, 20%

REV.	CHG. NO.	REV.
00001	B	

DRN. M. HALLER	DATE 8-2-68
CHK'D W. MULLEN	DATE 8-2-68
ENG. D.A. WHITE	DATE 10-16-68
PROD.	DATE

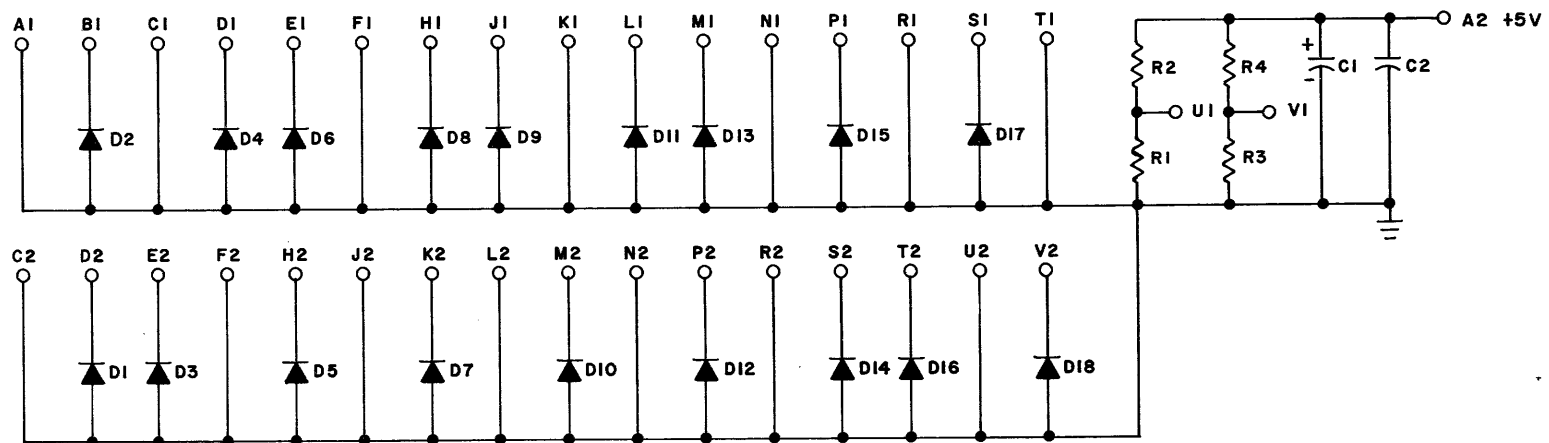
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D662	IN645		
D664	IN3606		

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE CABLE TERMINATOR M906			
SIZE	CODE	NUMBER	REV.
B	CS	M906-0-1	B
PRINTED CIRCUIT REV.			A B

REV. NUMBER B CS M907-0-1

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D1-D18	DIODE D664	1100114
R2, R4	RES. 330 1/4W 5% CC	1300295
R1, R3	RES. 750 1/4W 5% CC	1301401
C1	CAP. 6.8MFD 35V 20% STANT	1000067
C2	CAP. .01MFD 100V 20% DISC	1001610
PARTS LIST		A-PL-M907-0-0
REFERENCE DESIGNATION		DESCRIPTION
		PART NO.

TITLE			
DIODE CLAMP M907			
SIZE	CODE	NUMBER	REV.
B	CS	M907-0-1	
PRINTED CIRCUIT REV.			
D15	324	434	435
PINK			

REVISIONS	CHK	CHG	NO.	REV.
DRN. <i>m. Keller</i> DATE <i>8-9-68</i> CHK'D <i>M. J. Keller</i> DATE <i>8-9-68</i> ENG. <i>F. J. Keller</i> DATE <i>9/1/68</i> PROD. <i>F. J. Keller</i> DATE				

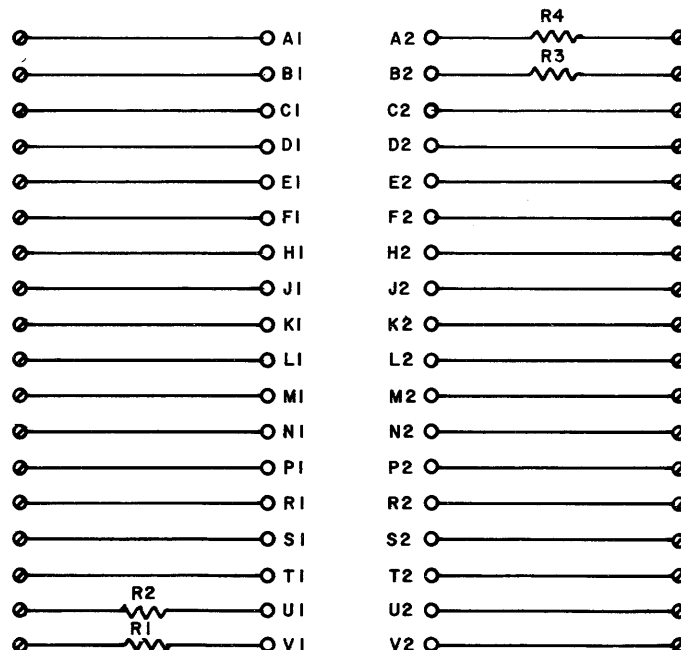
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D664	IN3606		

digital
EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS



REV.	NUMBER	CS	SIZE
	M908-0-1	B	

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Ø SPLIT LUG

R1 - R4	RES. 10 1/4W 10% CC	1300170
	PARTS LIST	A-PL-M908-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.
PARTS LIST		

REVISIONS CHK CHG NO. REV.	DRN. <i>M. Heller</i>	DATE 9-27-68	TRANSISTOR & DIODE CONVERSION CHART				digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE CONNECTOR MODULE M908			
	CHK'D <i>M. Heller</i>	DATE 9-27-68	DEC	EIA	DEC	EIA		SIZE B	CODE CS	NUMBER M908-0-1	REV.
	ENG. <i>J. L. 99</i>	DATE 11/5/68									
	PROD.	DATE									



PINK

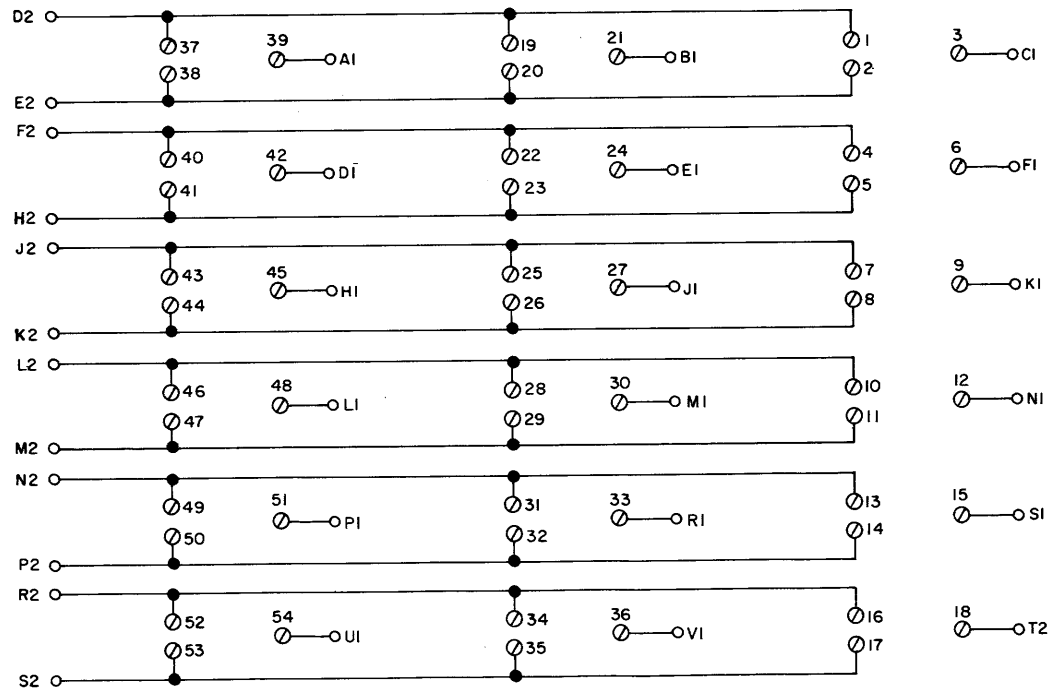
DIST. 324 434 435²

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PIN SIGNAL ASSIGNMENTS

OUT			
DEVICE A	DEVICE B	DEVICE C	SIGNAL
AI	BI	CI	MB3
DI	EI	FI	MB4
HI	JI	KI	MB5
LI	MI	NI	MB6
PI	RI	SI	MB7
UI	VI	T2	MB8

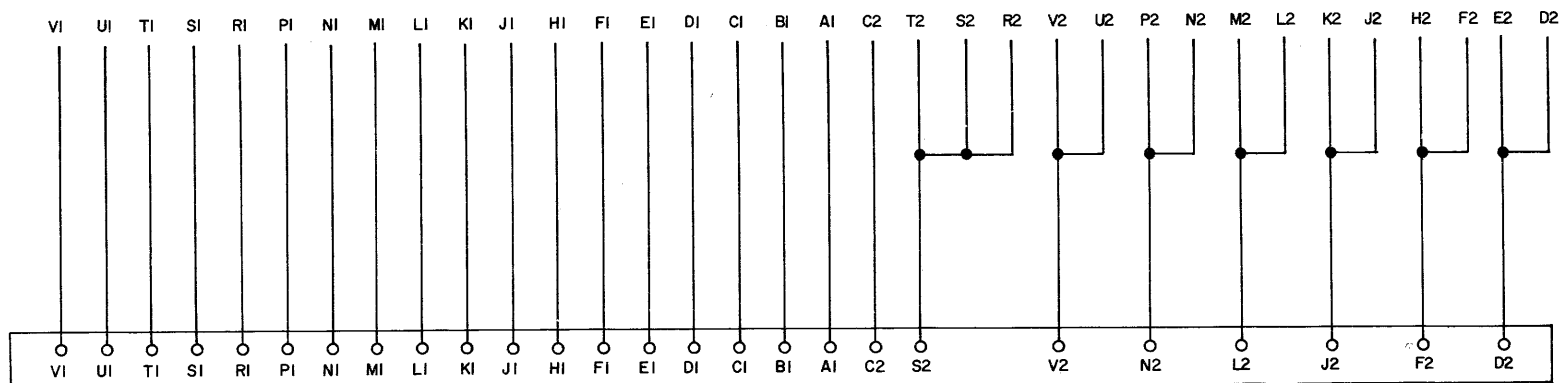
IN	
D2	MB3(O)
E2	MB3(I)
F2	MB4(O)
H2	MB4(I)
J2	MB5(O)
K2	MB5(I)
L2	MB6(O)
M2	MB6(I)
N2	MB7(O)
P2	MB7(I)
R2	MB8(O)
S2	MB8(I)



UNLESS OTHERWISE INDICATED:
 ○ ARE SPLIT LUGS

REVISIONS CHK CHG NO. REV.	DRN. BUTLER	DATE 1/16/69	TRANSISTOR & DIODE CONVERSION CHART		digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE DEVICE CODE SELECT JUMPER BOARD		
	CHK'D C. P. Ricketts	DATE 3/24/69	DEC	EIA		SIZE B	CODE CS	NUMBER M921-0-1
	ENG. C. P. Ricketts	DATE 4/24/69	DEC	EIA		PRINTED CIRCUIT REV.	B	
	PROD. C. P. Ricketts	DATE	DEC	EIA		REV.		

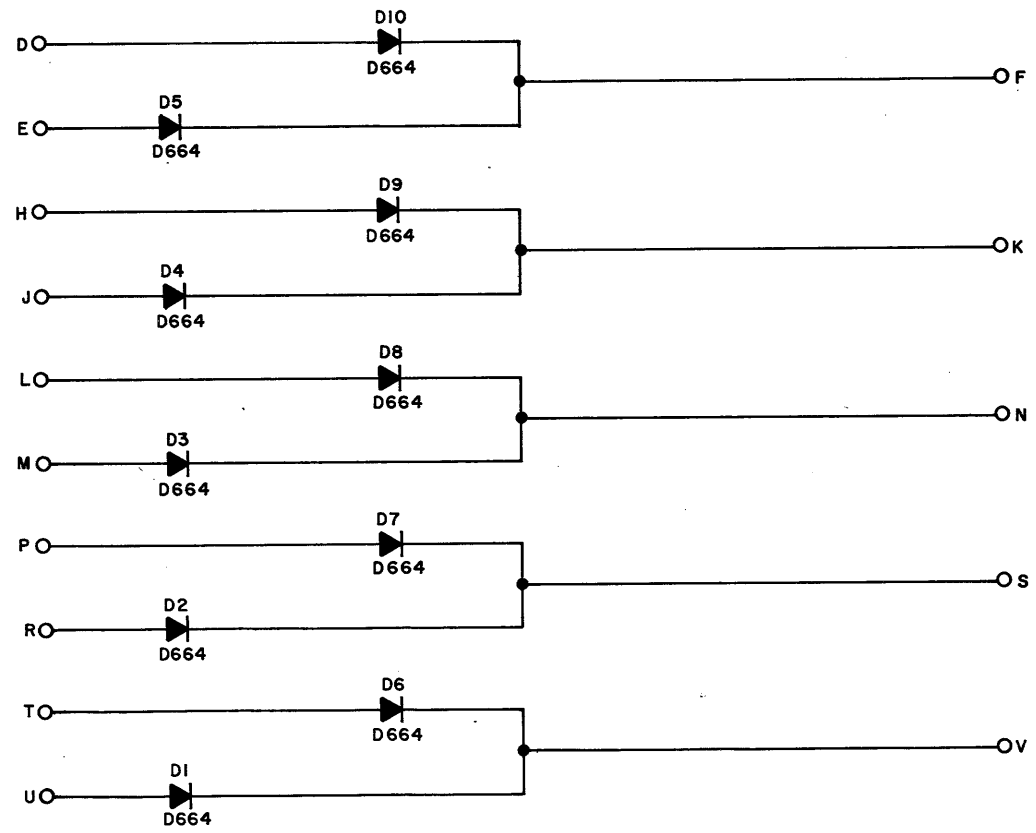
SIZE	B	CS	NUMBER	M941-0-1	REV.
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REVISIONS CHK CHG NO REV		DRN <i>NANCY MOORE</i>	DATE <i>4/14/70</i>	TRANSISTOR & DIODE CONVERSION CHART				digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE JUMPER/EXTENDER BOARD M94I
		CHK'D <i>E. Lytle</i>	DATE <i>5/14/70</i>	DEC	EIA	DEC	EIA		SIZE B CODE CS
		ENG <i>E. Lytle</i>	DATE <i>5/16/70</i>						NUMBER M94I-0-I
		PROB <i>P. Sullivan</i>	DATE <i>5/27/70</i>						REV.
									PRINTED CIRCUIT REV.
									A

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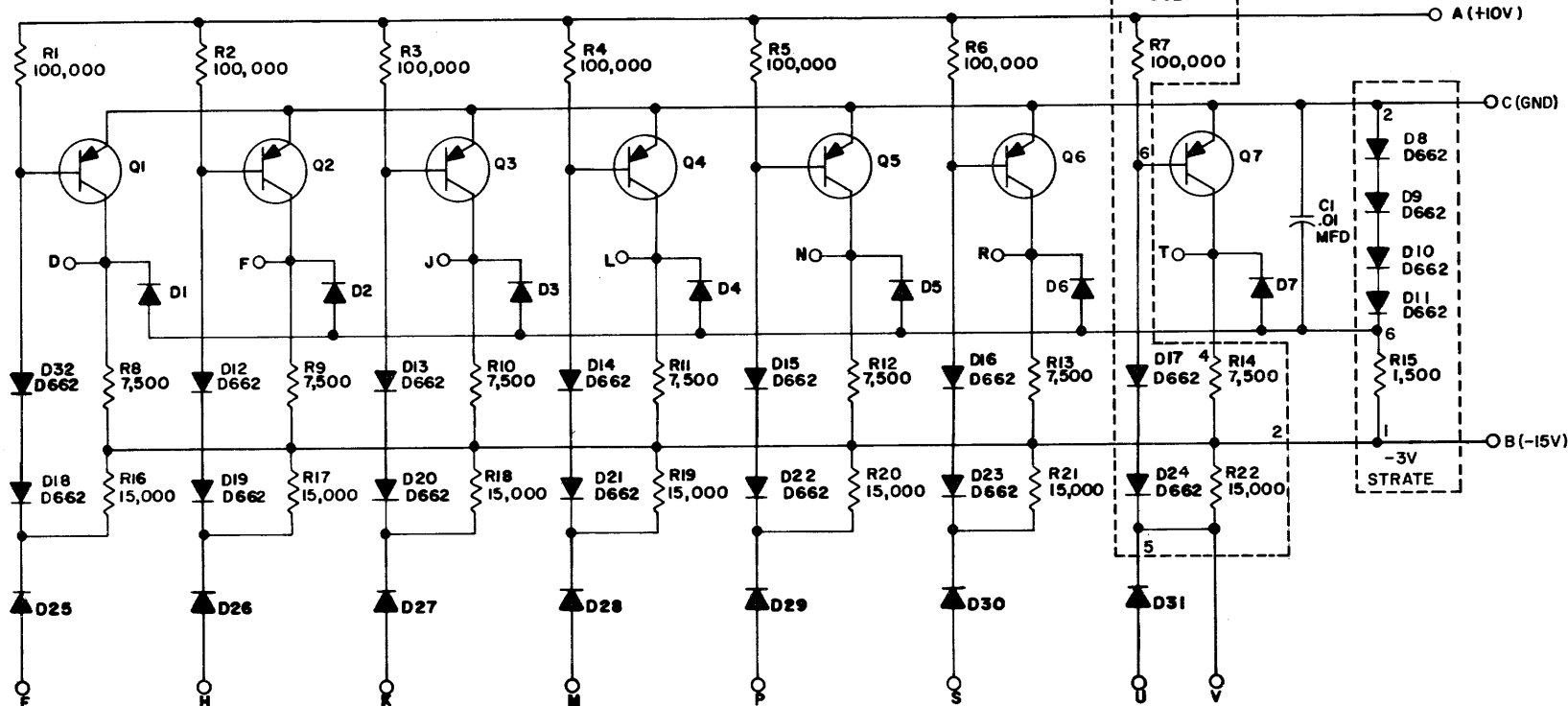
REV.	A	NUMBER	R002-0-1	CS	B	SIZE	B
------	---	--------	----------	----	---	------	---



REVISIONS	CHK	CHG NO	REV	A	DRN. H. PORTER DATE 5-21-64	CHK'D N. PERRYMAN DATE 5-25-64	ENG. R. BANK DATE 5-25-64	PROD.	DATE	TRANSISTOR & DIODE CONVERSION CHART				digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE DIODE CLUSTER R002			
	DEC	EIA	DEC							EIA	SIZE	CODE	NUMBER		REV.			
	D664	IN3606	B							CS	R002-0-1	A						
DEC FORM NO. 102										PRINTED CIRCUIT REV. B								

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REV. H
NUMBER RI07-0-1
SIZE B
CODE CS



UNLESS OTHERWISE INDICATED;
RESISTORS ARE 1/4W, 5%
DIODES ARE D-664
TRANSISTORS ARE DEC 3639B
PRINTED CIRCUIT REV. FOR
DGL BOARD IS SIA

REV. NO.	CHK	CHG	NO.	REV.
1	DAW	4863		
2	REV	6377		
3	ENG	5481		
4	ENG	5685		
5	ENG	6539		

DRN.	A OUELLETTE	DATE	9-1-64
CHK'D	N PERRYMAN	DATE	9-10-64
ENG.	D WHITE	DATE	9-10-64
PROD.		DATE	

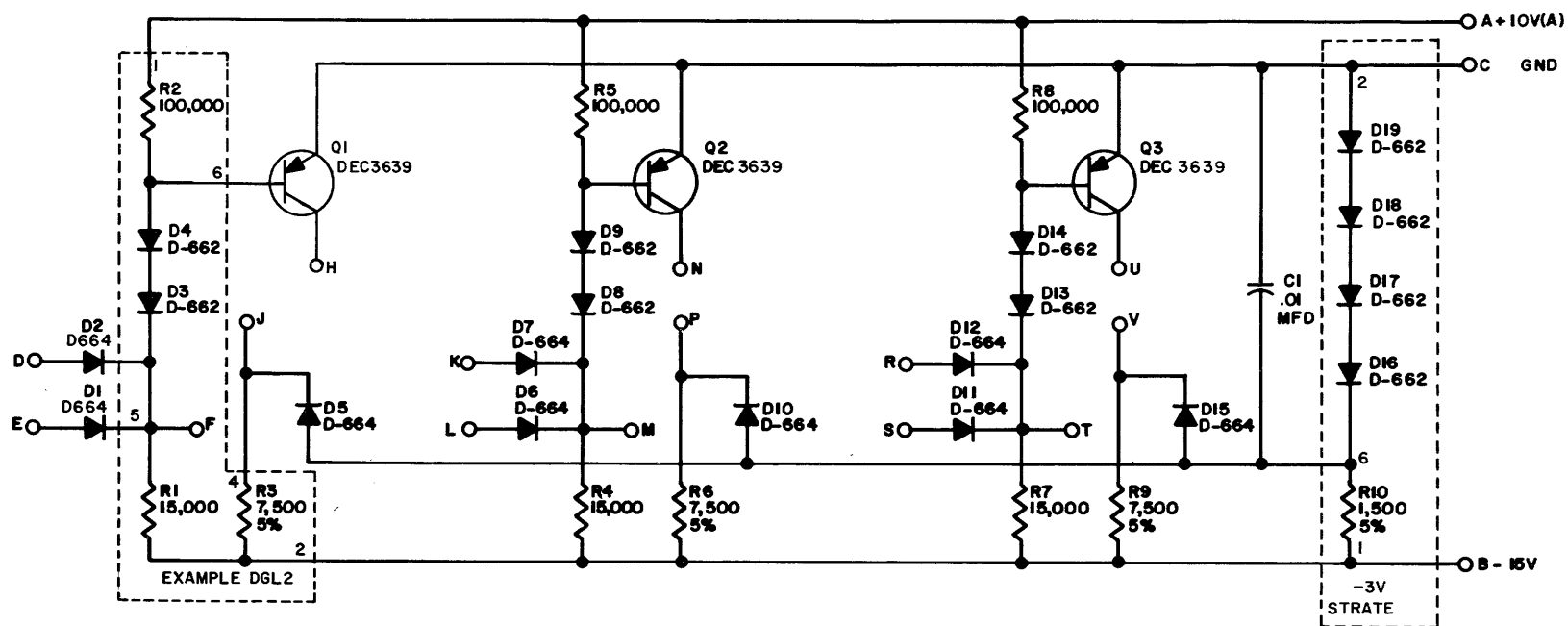
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC 3639B	2N3639		
D662	IN645		
D664	IN3606		

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE INVERTER RI07			
SIZE B	CODE CS	NUMBER RI07-0-1	REV. H
PRINTED CIRCUIT REV.			C D

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REV.	F
NUMBER	RIII-0-1
SIZE	B
CODE	CS

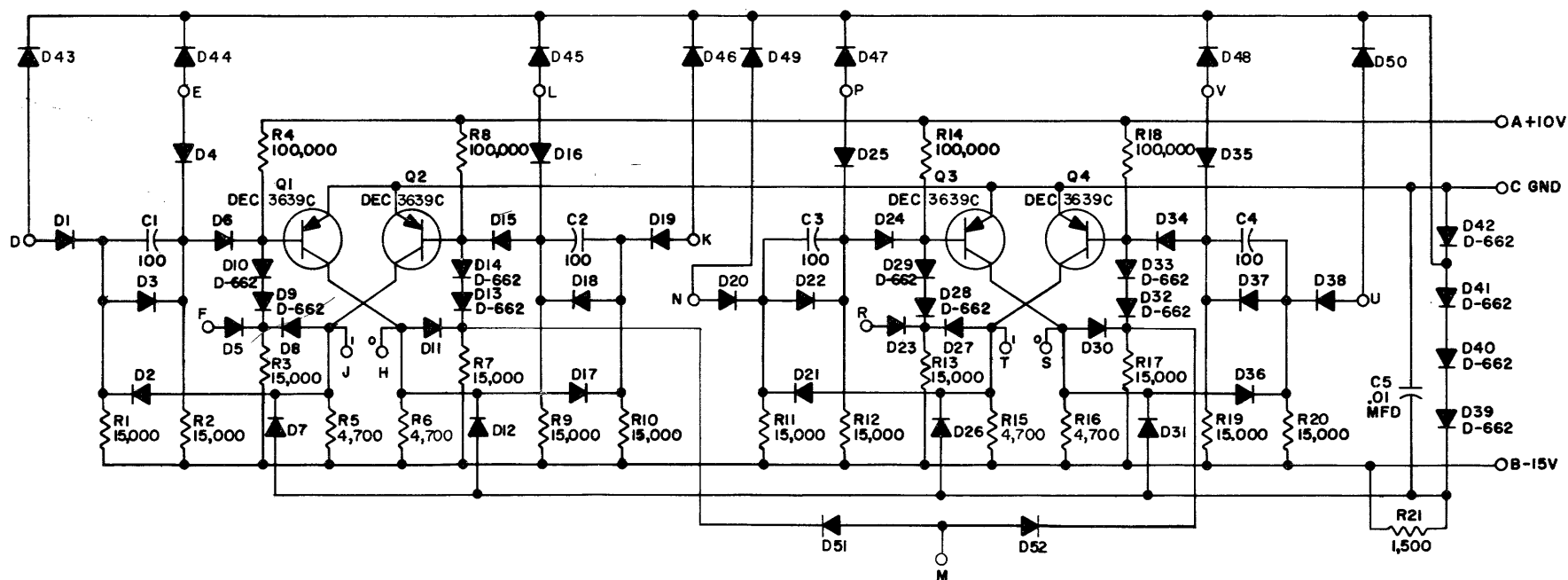


UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 5%
PRINTED CIRCUIT REV. FOR
DGL BOARD IS SIB

REVISIONS CHK CHG NO REV DAW 4756 1 REVISED 5376 D 5459 E 5534 F				DRN. H PORTER DATE 5-15-64 CHK'D N. PERRYMAN DATE 5-25-64 ENG. R. BANK DATE 5-25-64 PROD. DATE		TRANSISTOR & DIODE CONVERSION CHART <table border="1"> <tr> <th>DEC</th> <th>EIA</th> <th>DEC</th> <th>EIA</th> </tr> <tr> <td>DEC3639</td> <td>2N3639</td> <td></td> <td></td> </tr> <tr> <td>D662</td> <td>1N645</td> <td></td> <td></td> </tr> <tr> <td>D664</td> <td>1N3606</td> <td></td> <td></td> </tr> </table>				DEC	EIA	DEC	EIA	DEC3639	2N3639			D662	1N645			D664	1N3606			digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS				TITLE DIODE GATE RIII SIZE B CODE CS NUMBER RIII-0-1 REV. F PRINTED CIRCUIT REV. DEF			
DEC	EIA	DEC	EIA																														
DEC3639	2N3639																																
D662	1N645																																
D664	1N3606																																

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REV. F
NUMBER R202-0-1
SIZE B
CODE CS

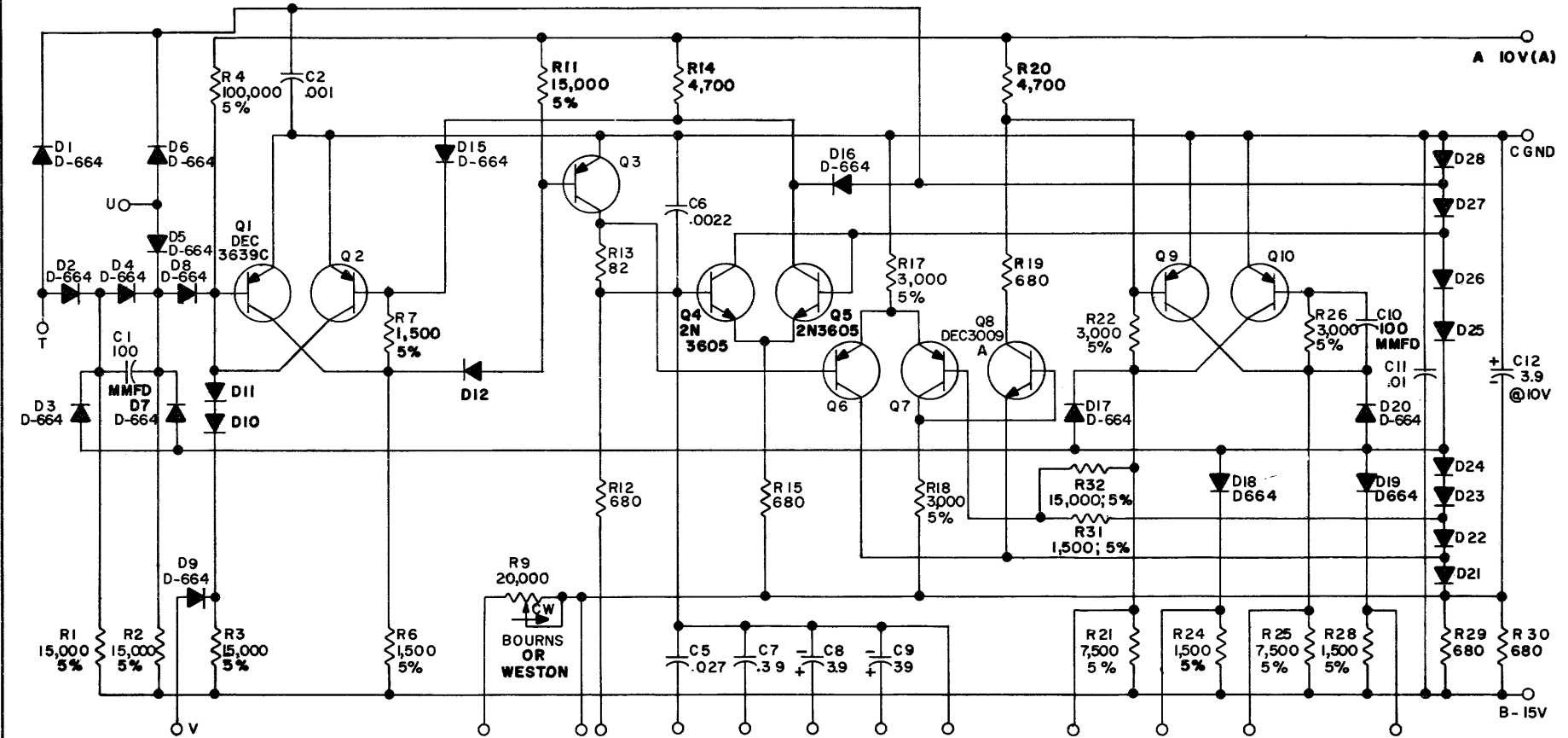


UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4 W, 5%
CAPACITORS ARE MMFD
DIODES ARE D-664

REVISIONS CHG NO. REV. 4 RMS 6330 REV. 6549 F		DRN. A. OUELLETTE DATE 6-16-64 CHK'D N. PERRYMAN DATE 6-16-64 ENG. R. BANK DATE 6-22-64 PROD. DATE	TRANSISTOR & DIODE CONVERSION CHART <table border="1"> <tr> <th>DEC</th> <th>EIA</th> <th>DEC</th> <th>FIA</th> </tr> <tr> <td>DEC 3639C</td> <td>2N3639</td> <td></td> <td></td> </tr> <tr> <td>D662</td> <td>IN645</td> <td></td> <td></td> </tr> <tr> <td>D664</td> <td>IN3606</td> <td></td> <td></td> </tr> </table>	DEC	EIA	DEC	FIA	DEC 3639C	2N3639			D662	IN645			D664	IN3606			digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE DUAL FLIP FLOP R202 SIZE B CODE CS NUMBER R202-0-1 REV. F PRINTED CIRCUIT REV. DE
DEC	EIA	DEC	FIA																		
DEC 3639C	2N3639																				
D662	IN645																				
D664	IN3606																				

REV. K
NUMBER R303-0-1
SIZE B
CODE CS

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UNLESS OTHERWISE INDICATED: CAPS. ARE MFD
RESISTORS ARE 1/4W, 10% R9 IS A 275P
DIODES ARE D-662,
TRANSISTORS ARE DEC 3639B PARTS LIST A-PL-R303-0-0

REV.	CHG. NO.	REV.
1	5021	2
2	5022	3
3	5023	4
4	5024	5
5	5025	6
6	5026	7
7	5027	8
8	5028	9
9	5029	10
10	5030	11
11	5031	12
12	5032	13
13	5033	14
14	5034	15
15	5035	16
16	5036	17
17	5037	18
18	5038	19
19	5039	20
20	5040	21
21	5041	22
22	5042	23
23	5043	24
24	5044	25
25	5045	26
26	5046	27
27	5047	28
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45	5065	46
46	5066	47
47	5067	48
48	5068	49
49	5069	50
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51	5071	52
52	5072	53
53	5073	54
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56	5076	57
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70	5090	71
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83	5103	84
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86	5106	87
87	5107	88
88	5108	89
89	5109	90
90	5110	91
91	5111	92
92	5112	93
93	5113	94
94	5114	95
95	5115	96
96	5116	97
97	5117	98
98	5118	99
99	5119	100

DRN.	DATE
L. HAHN	4-5-65
CHK'D	DATE
R. SILVERMAN	4-16-65
ENG.	DATE
R. DOANE	4-16-65
PROD.	DATE

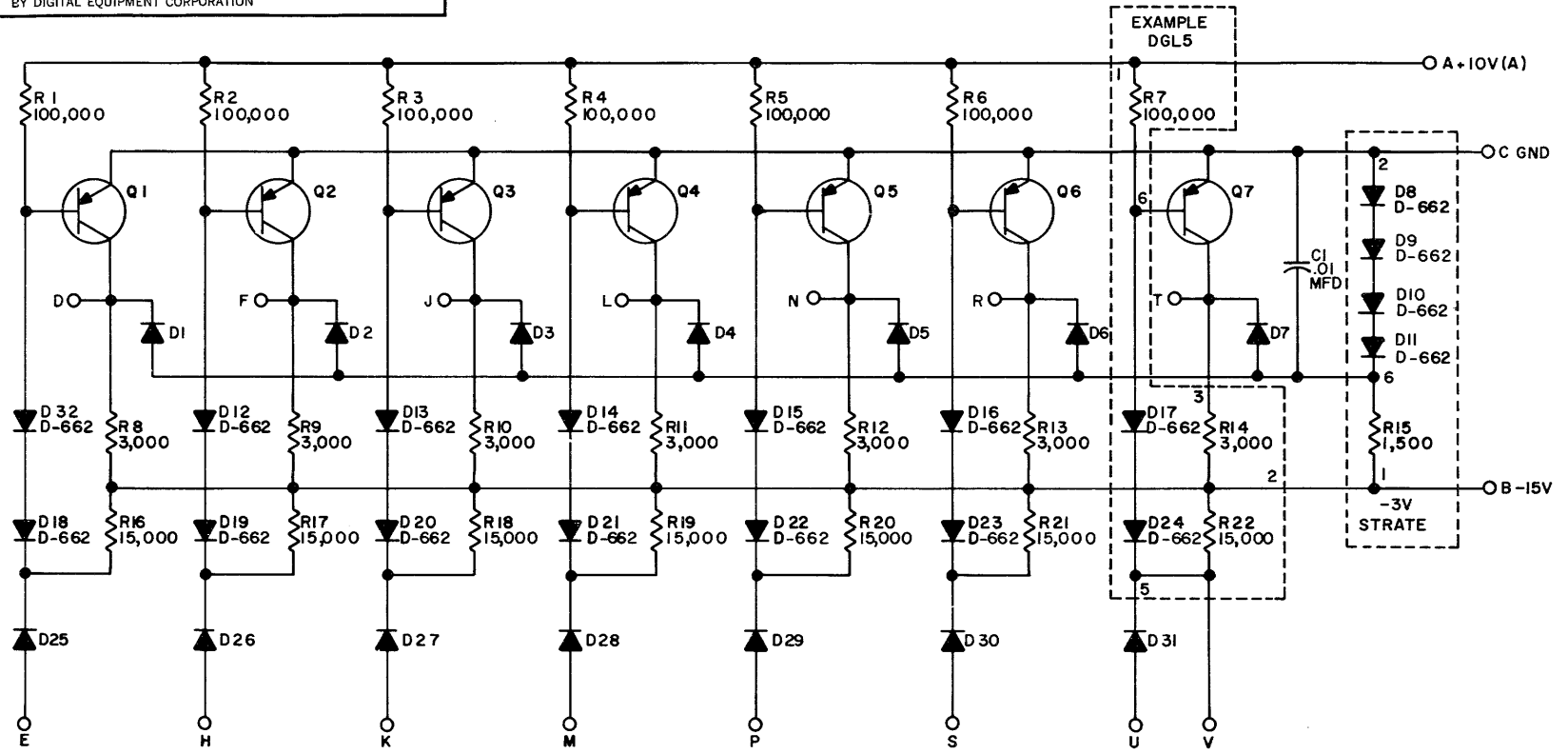
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3639B	2N3639	DEC3639C	2N3639
DEC3009	2N3009		
2N3605	2N3605		
D662	1N645		
D664	1N3606		

digital
EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE				INTEGRATING ONE-SHOT R303			
SIZE	CODE	NUMBER	REV.	SIZE	CODE	NUMBER	REV.
B	CS	R303-0-1	K	B	CS	R303-0-1	K
PRINTED CIRCUIT REV.				D			

REV	D	NUMBER	SI07-0-1	CS	B	SIZE
-----	---	--------	----------	----	---	------

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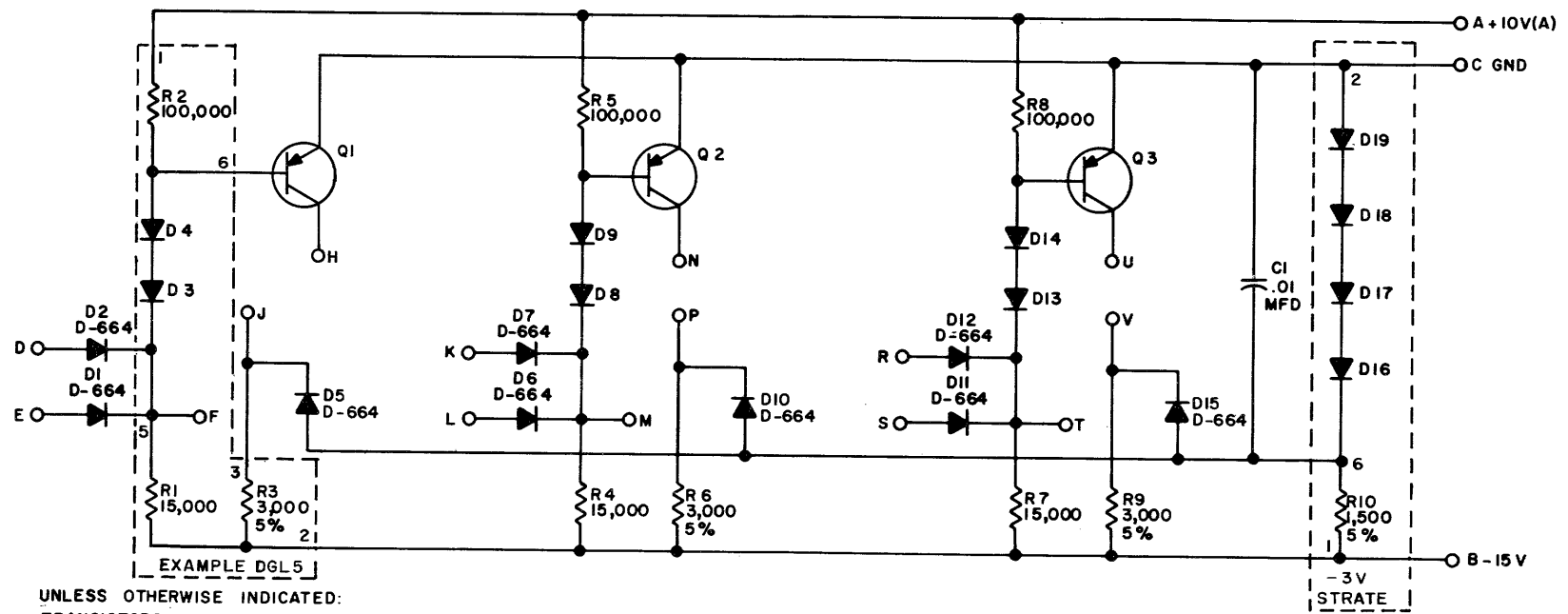
UNLESS OTHERWISE INDICATED:
 RESISTORS ARE 1/4W;5%
 DIODES ARE D-664
 TRANSISTORS ARE DEC 3639B
 PRINTED CIRCUIT REV. FOR
 DGL BOARD IS SIA

USE THE ETCH BOARD OF THE RI07

PARTS LIST A-PL-SI07-0-0

REVISIONS		CHK		CHG NO	REV											DRN	DATE	TRANSISTOR & DIODE CONVERSION CHART										digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE												
REV		CHK		A		REDR.	B	C	D											I		HAHN		6-II-65		DEC			EIA		DEC		EIA		INVERTER SI07						
							15384													CHK'D		DATE		6-18-65		DEC 3639B			2N3639						SIZE		CODE	NUMBER		REV	
																				ENG		DATE		6-18-65		D662			1N645						B		CS	SI07-0-1		D	
																				R		SOGGE		6-18-65		D664			1N3606												
																				PROD.		DATE																			

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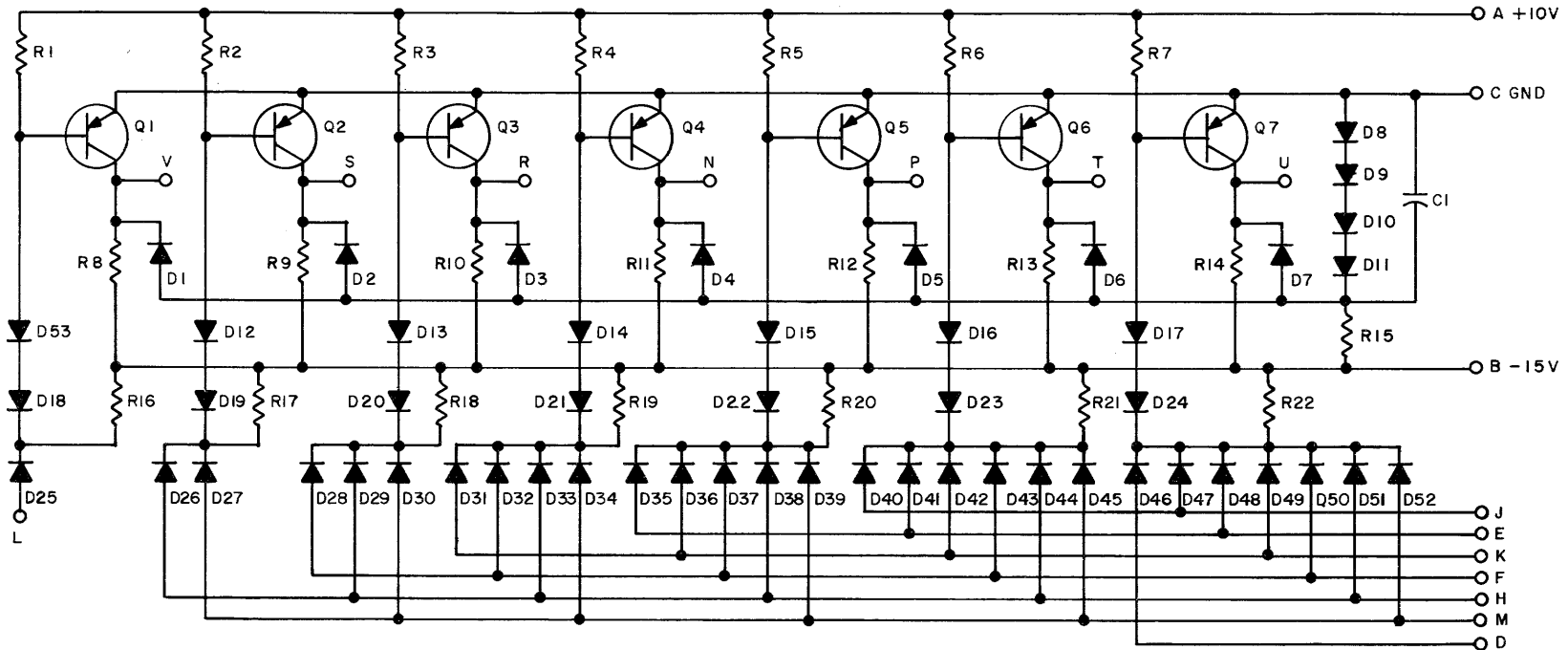


USE THE ETCH BOARD OF THE RIII

REVISIONS CHK CHG NO. REV. REV. 6385 B REV. 6460 C REV. 6750 D		DRN. I HAHN DATE 6-10-65 CHK'D R SILVERMAN DATE 6-18-65 ENG. R SOGGE DATE 6-18-65 PROD. DATE	TRANSISTOR & DIODE CONVERSION CHART <table border="1"> <tr> <th>DEC</th> <th>EIA</th> </tr> <tr> <td>DEC3639</td> <td>2N3639</td> </tr> <tr> <td>D662</td> <td>1N645</td> </tr> <tr> <td>D664</td> <td>1N3606</td> </tr> </table>	DEC	EIA	DEC3639	2N3639	D662	1N645	D664	1N3606	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE DIODE GATE SIII SIZE B CODE CS NUMBER III-0-1 REV. D PRINTED CIRCUIT REV. D F
DEC	EIA												
DEC3639	2N3639												
D662	1N645												
D664	1N3606												

REV. A
NUMBER S181-0-1
B SIZE
CS CODE

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USE THE ETCH BOARD OF THE R181

Q1 THRU Q7	TRANSISTOR DEC3639B	1502762
R16 THRU R22	RES. 15K 1/4W 5%	1300496
R15	RES. 1.5K 1/4W 5% CC	1300391
R8 THRU R14	RES. 3K 1/4W 5% CC	1300432
R1 THRU R7	RES. 100K 1/4W 5% CC	1302466
D1 THRU D7, D25 THRU D52	DIODE D664	1100114
D8 THRU D24, D53	DIODE D662	1100113
C1	CAP. .01MFD 50V -0 +20% DISC	1000001
PARTS LIST		A-PL-S181-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

REVISIONS	CHK'D	DATE
CHG NO. 1	I. HAHN	6-11-65
REV. 2	R. SILVERMAN	6-18-65
REV. 3	R. SOGGE	6-18-65
REV. 4	PROD.	DATE

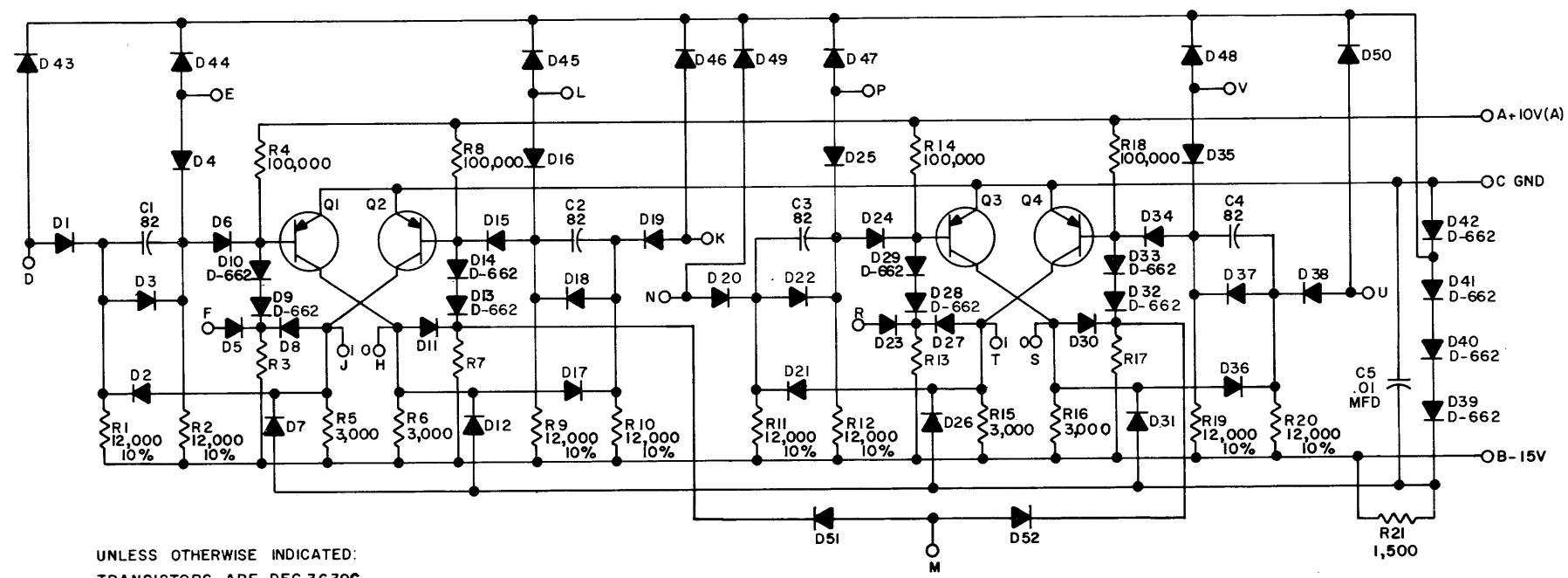
TRANSISTOR & DIODE CONVERSION CHART	
DEC	EIA
DEC3639B	2N3639
D662	1N645
D664	1N3606

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE		DC CARRY CHAIN S181	
SIZE	CODE	NUMBER	REV.
B	CS	S181-0-1	A
PRINTED CIRCUIT REV.		C	
DIST.		324	434

REV. D
NUMBER S202-0-1
CS B
SIZE 30

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UNLESS OTHERWISE INDICATED:
TRANSISTORS ARE DEC 3639C
RESISTORS ARE 15,000
RESISTORS ARE 1/4W, 5%
CAPACITORS ARE MMFD
DIODES ARE D-664

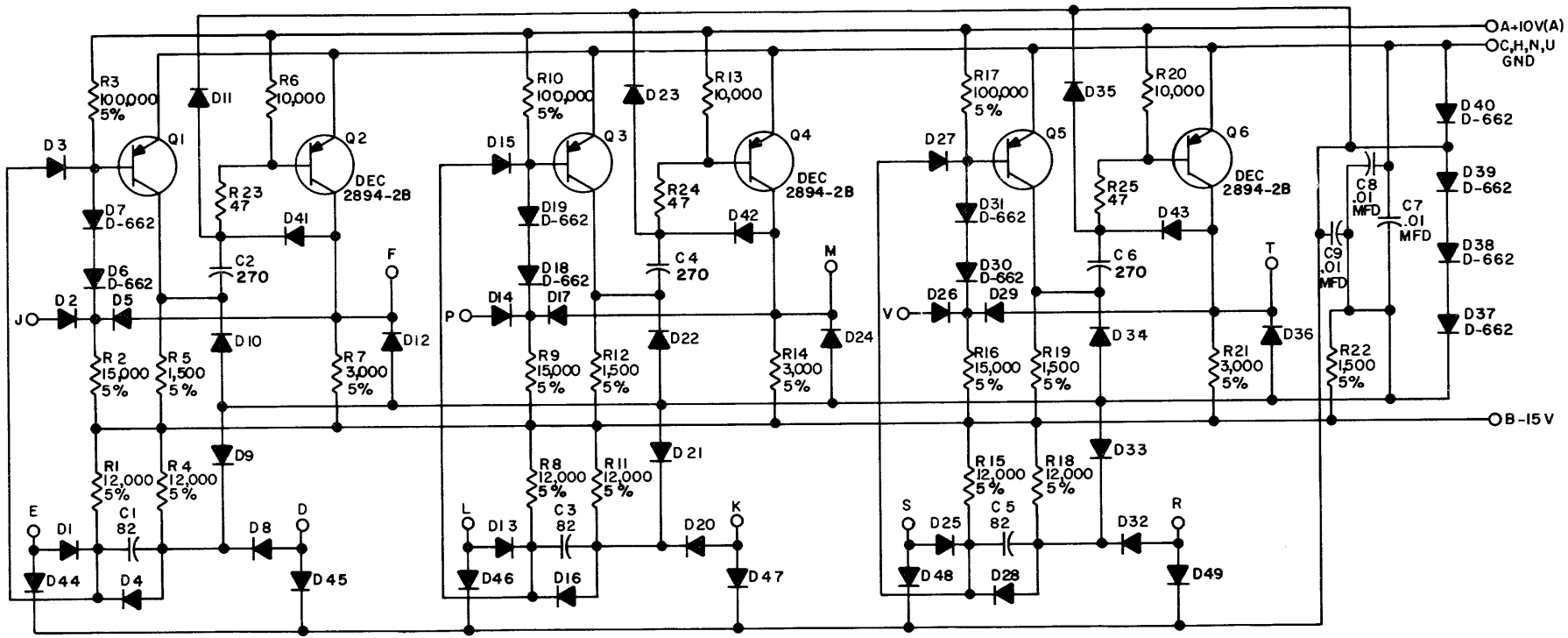
USE THE ETCH BOARD OF THE R202

REVISIONS				DRN.	DATE	TRANSISTOR & DIODE CONVERSION CHART				digital				TITLE			
CHK	CHG	NO.	REV.	CHK'D	DATE	DEC	EIA	DEC	EIA	EQUIPMENT CORPORATION				SIZE	CODE	NUMBER	REV.
DAW	4994		I	R. SIVERMAN	6-18-65	DEC 3639C	2N3639			MAYNARD, MASSACHUSETTS				B	CS	S202-0-1	D
REV	8469		B	ENG.	DATE	D662	IN645			PRINTED CIRCUIT REV.							
REV	8493		C	PROD.	DATE	D664	IN3606										
REV	8683		D														

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REV.	E	NUMBER	S603-0-1	SIZE	B	CODE	CS
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UNLESS OTHERWISE INDICATED:
 RESISTORS ARE 1/4W; 10%
 CAPACITORS ARE MMFD
 DIODES ARE D-664
 TRANSISTORS ARE DEC 3639-C

USE THE ETCH BOARD OF THE R603

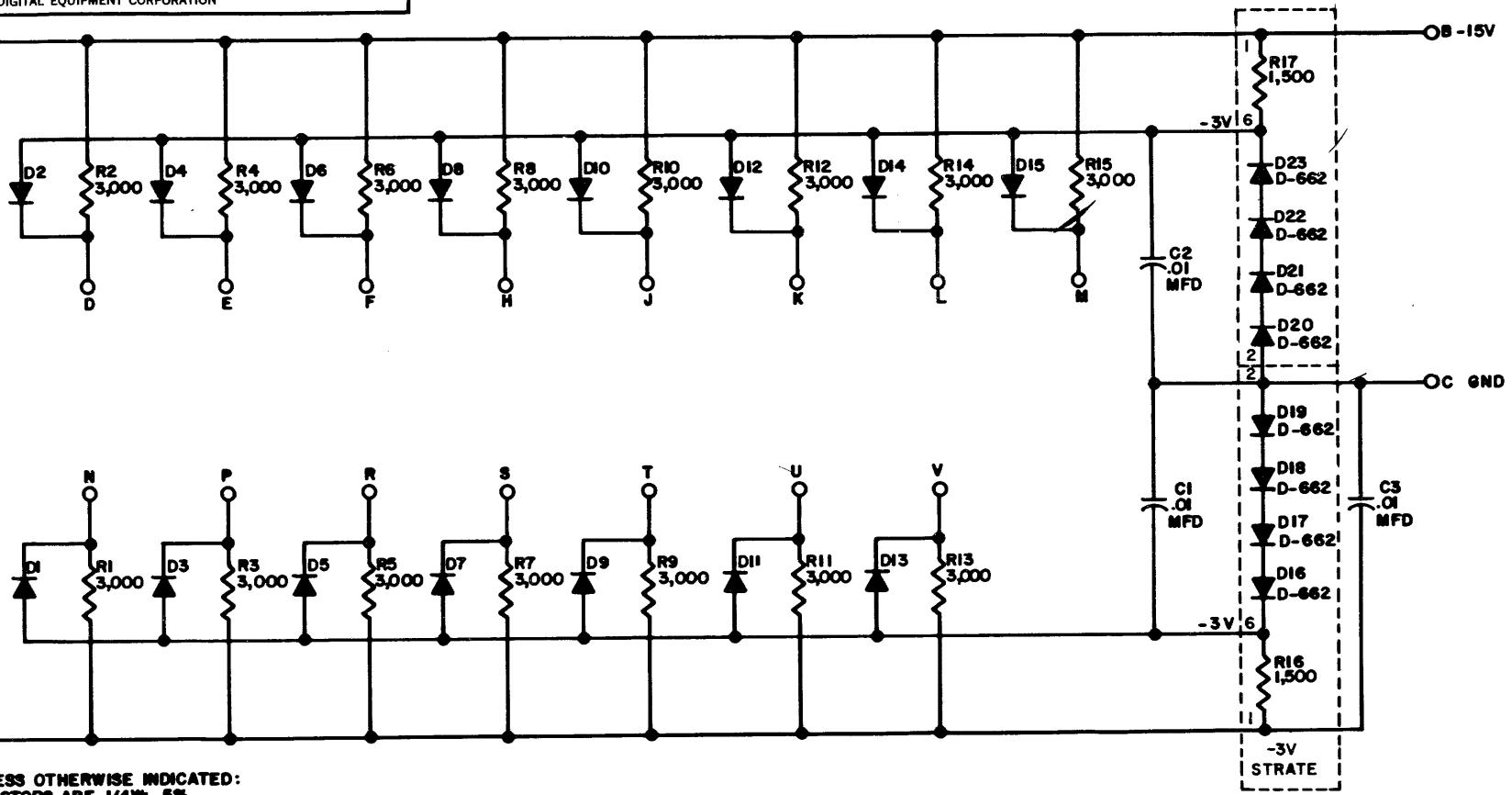
PARTS LIST A-PL-S603-0-0

REVISIONS				DRN.		TRANSISTOR & DIODE CONVERSION CHART				digital		TITLE	
CHK	CHG NO	REV.			DATE	DEC	EIA	DEC	EIA			SIZE	CODE
DAW	5273	2		1	HAHN	6-14-65				B	CS	S603-0-1	E
REV	8 REDR.			CHK'D	R SILVERMAN	6-18-65	DEC 2894-2B	NONE					
REV	5371	C		ENG	R. SOGGE	6-18-65	DEC 3639C	2N3639					
				PROD.			D662	1N645					
							D664	1N3606					

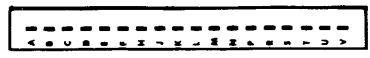


REV. B	NUMBER W005-0-1	SIZE CS	B
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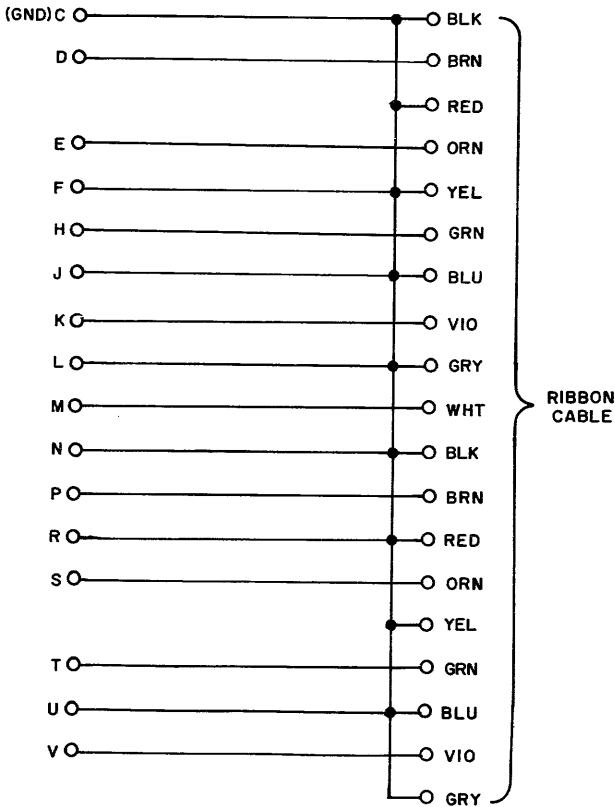


UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 5%
DIODES ARE D-664



REVISIONS CHK CHG NO. REV. DAW 8037 1 REV. 5397 B		DRN. H. PORTER CHK'D N. PERRYMAN ENG. B. SCUDNEY PROD.		DATE 4-27-64 DATE 5-4-64 DATE 5-4-64 DATE		TRANSISTOR & DIODE CONVERSION CHART <table border="1"> <tr> <th>DEC</th> <th>EIA</th> <th>DEC</th> <th>EIA</th> </tr> <tr> <td>D662</td> <td>IN645</td> <td></td> <td></td> </tr> <tr> <td>D664</td> <td>IN3606</td> <td></td> <td></td> </tr> </table>		DEC	EIA	DEC	EIA	D662	IN645			D664	IN3606			digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		TITLE CLAMPED LOADS W005	
DEC	EIA	DEC	EIA																				
D662	IN645																						
D664	IN3606																						
SIZE B CODE CS NUMBER W005-0-1 PRINTED CIRCUIT REV. B		REV. B																					

RS-B-W021-1

[illegible]

NOTES

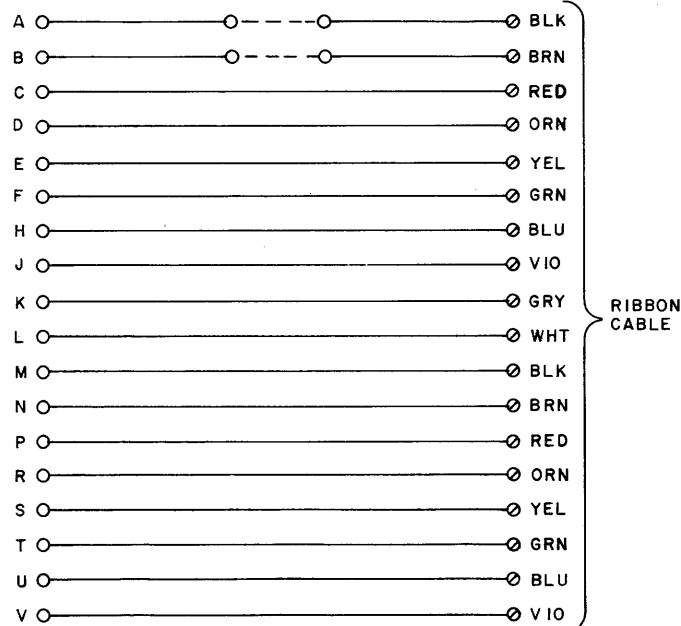
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A B C D E F G H I J K L M N O P Q R S T U V															
A, B				RS-B-W02I								I			
SIGNAL CABLE CONNECTOR W02I															

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REV.	NUMBER	SIZE	CODE	B	CS	W023-0-1
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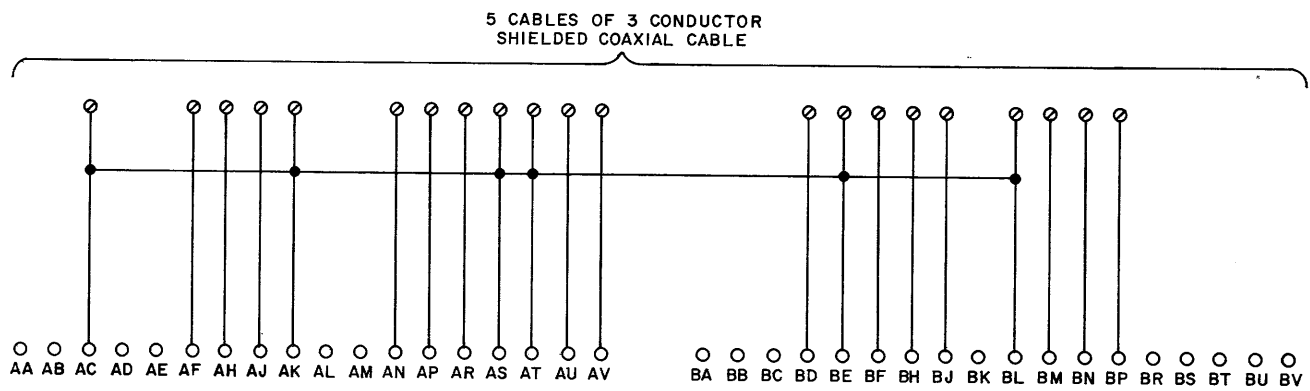
NOTE:
Ø ARE SPLIT LUGS

PARTS LIST IS A-PL-W023-0-0

REVISIONS CHK CHG NO. REV.	DRN.	DATE	TRANSISTOR & DIODE CONVERSION CHART				digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE CONNECTOR W023			
	CHK'D	DATE	DEC	EIA	DEC	EIA		SIZE	CODE	NUMBER	REV.
	ENG.	DATE						B	CS	W023-0-1	
	PROD.	DATE						PRINTED CIRCUIT REV. A			

REV. NUMBER
B CS W032-0-1

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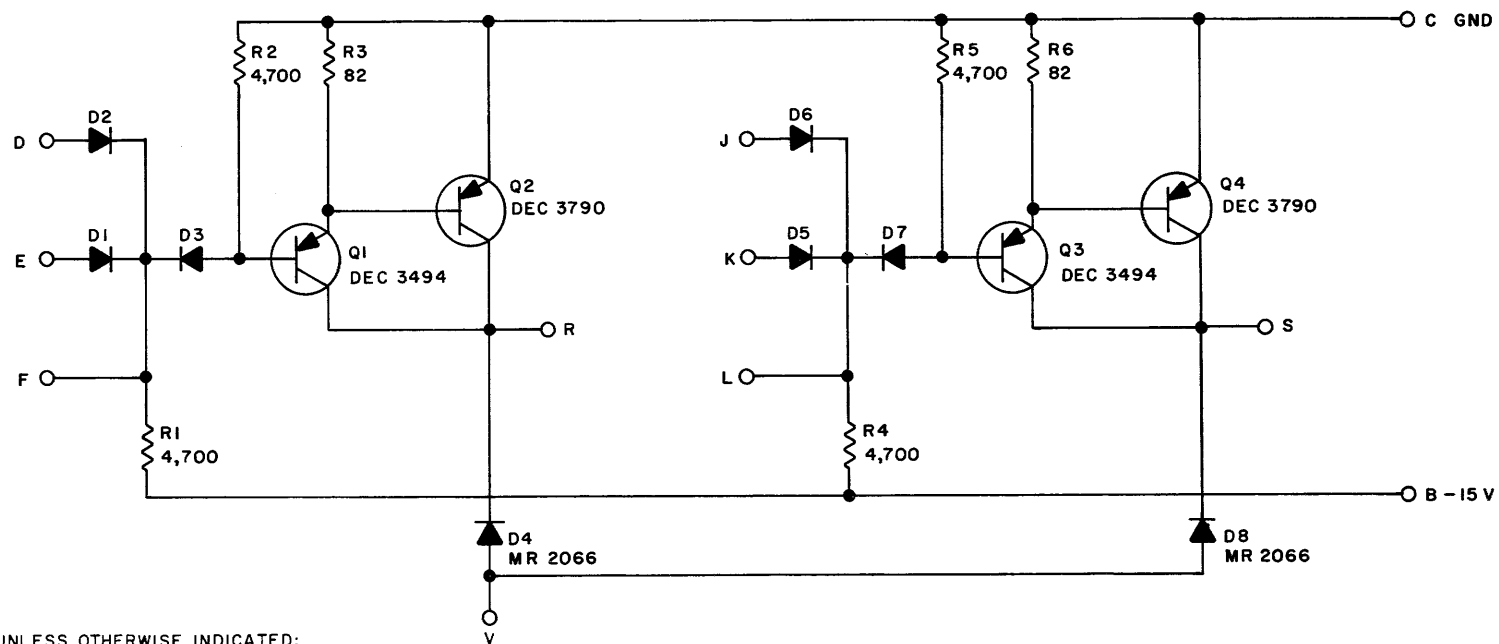


NOTE:
Ø ARE SPLIT LUGS

PARTS LIST IS A-PL-W032-0-0

REVISIONS CHK CHG NO REV	DRN. <i>M. Walker</i>	DATE 10-16-68	TRANSISTOR & DIODE CONVERSION CHART		digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE CONNECTOR W032											
	CHK'D <i>[Signature]</i>	DATE 1-12-68	DEC	EIA		DEC	EIA	SIZE B	CODE CS	NUMBER W032-0-1	REV.						
	ENG <i>[Signature]</i>	DATE 11-12-68															
	PROD.	DATE															
DEC FORM NO. DRB 102						PRINTED CIRCUIT REV. A						DIST 434 435 359 PINK					

RS-B-W040-2



TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC 3790	2N 3790		
DEC 3494	2N 3494		
D-664	1N 645		
MR 2066	1N 4003		

NOTES

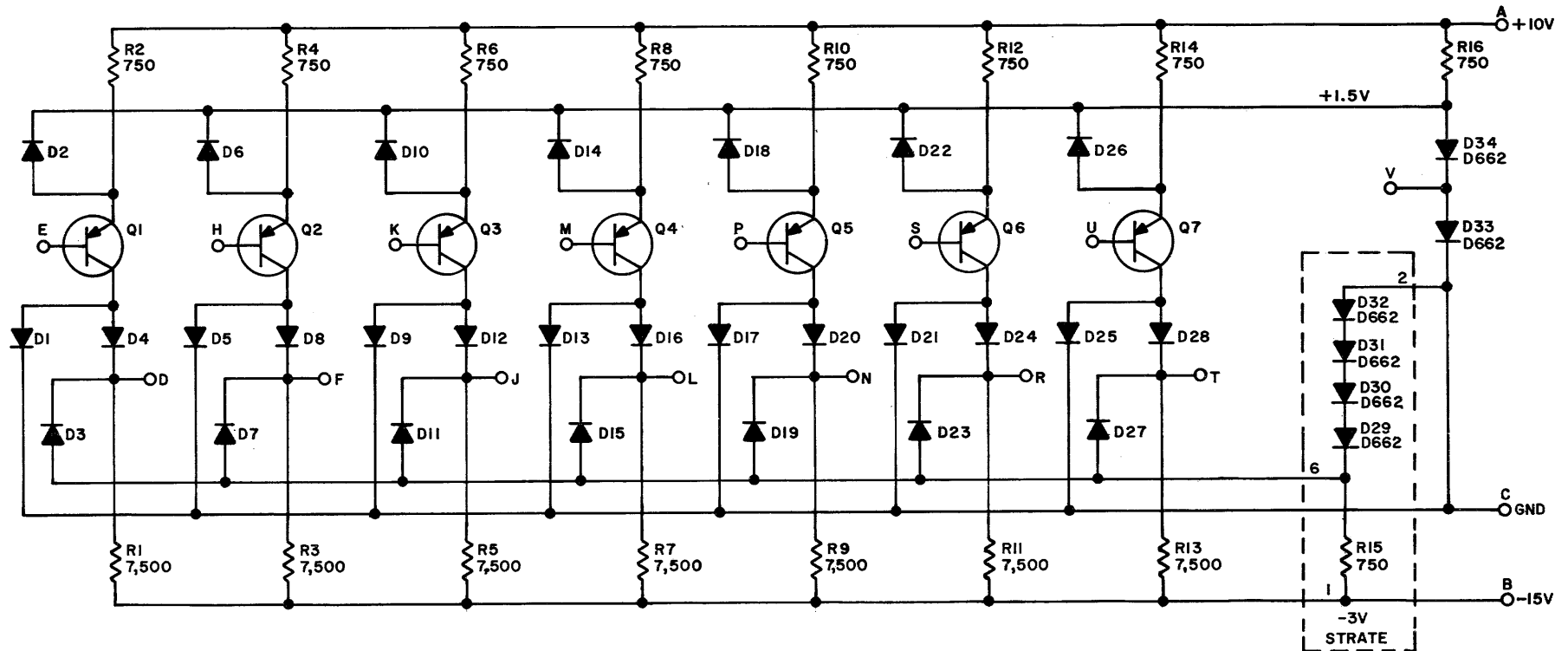
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B RS-B-W040 2		
SOLENOID DRIVER W040		

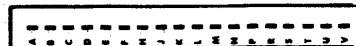
SIZE CODE B CS W512-0-1
NUMBER
REV. B

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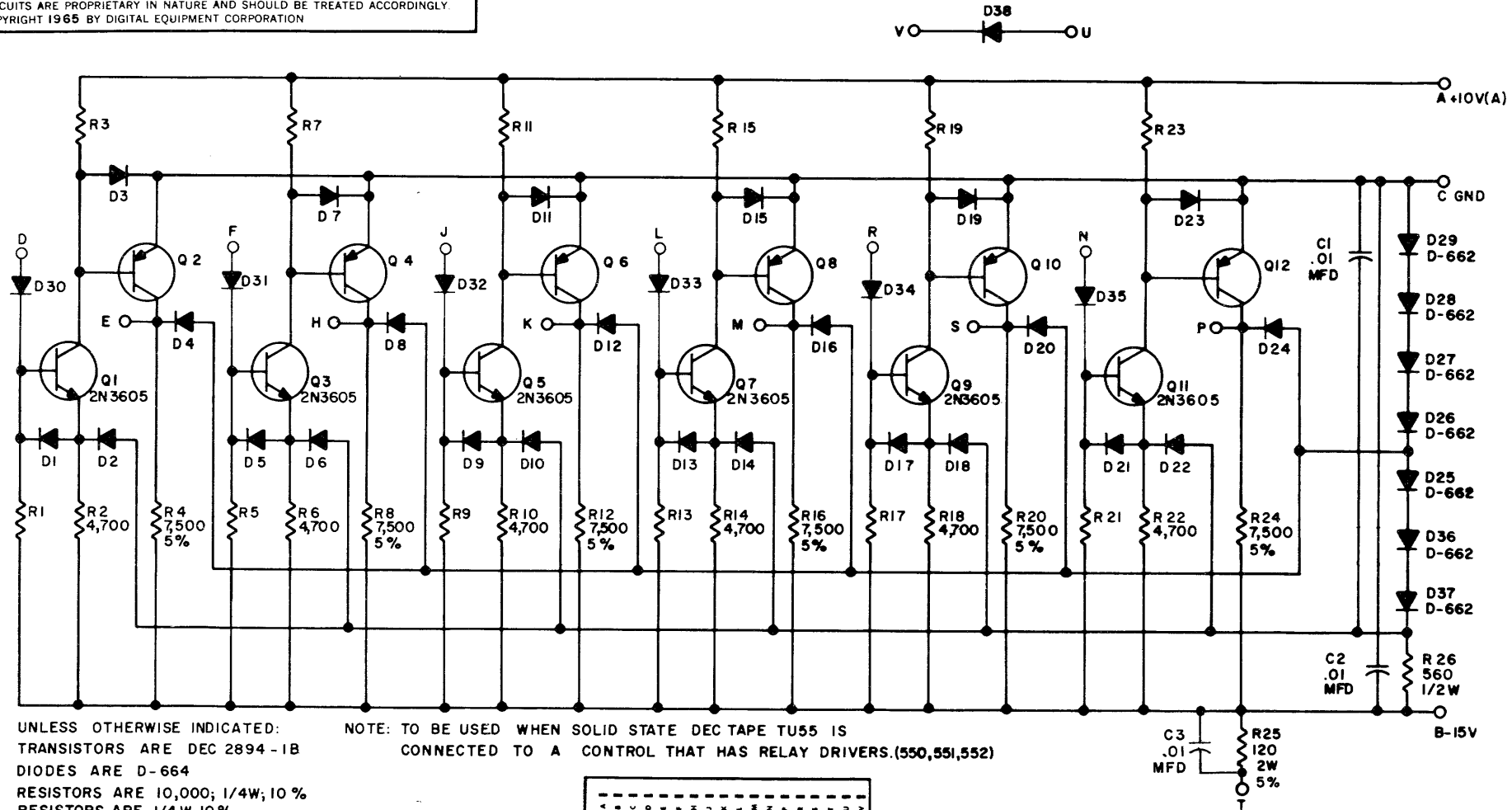
UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W; 5%
DIODES ARE D664
TRANSISTORS ARE DEC3639B

(R15 IS 1,500 WHEN -3V
STRATE IS USED)



REVISIONS CHK CHG NO. REV. 1 1 1 2 2 2 3 3 3		DRA. <i>[Signature]</i> CHK'D <i>[Signature]</i> ENG. <i>[Signature]</i> PROD. <i>[Signature]</i>		DATE DATE DATE DATE		TRANSISTOR & DIODE CONVERSION CHART <table border="1"> <tr> <th>DEC</th> <th>EIA</th> </tr> <tr> <td>DEC3639B</td> <td>2N3639</td> </tr> <tr> <td>D662</td> <td>IN645</td> </tr> <tr> <td>D664</td> <td>IN3606</td> </tr> </table>		DEC	EIA	DEC3639B	2N3639	D662	IN645	D664	IN3606	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		TITLE POSITIVE LEVEL CONVERTER W512 SIZE B CODE CS NUMBER W512-0-1 REV. B	
DEC	EIA																		
DEC3639B	2N3639																		
D662	IN645																		
D664	IN3606																		

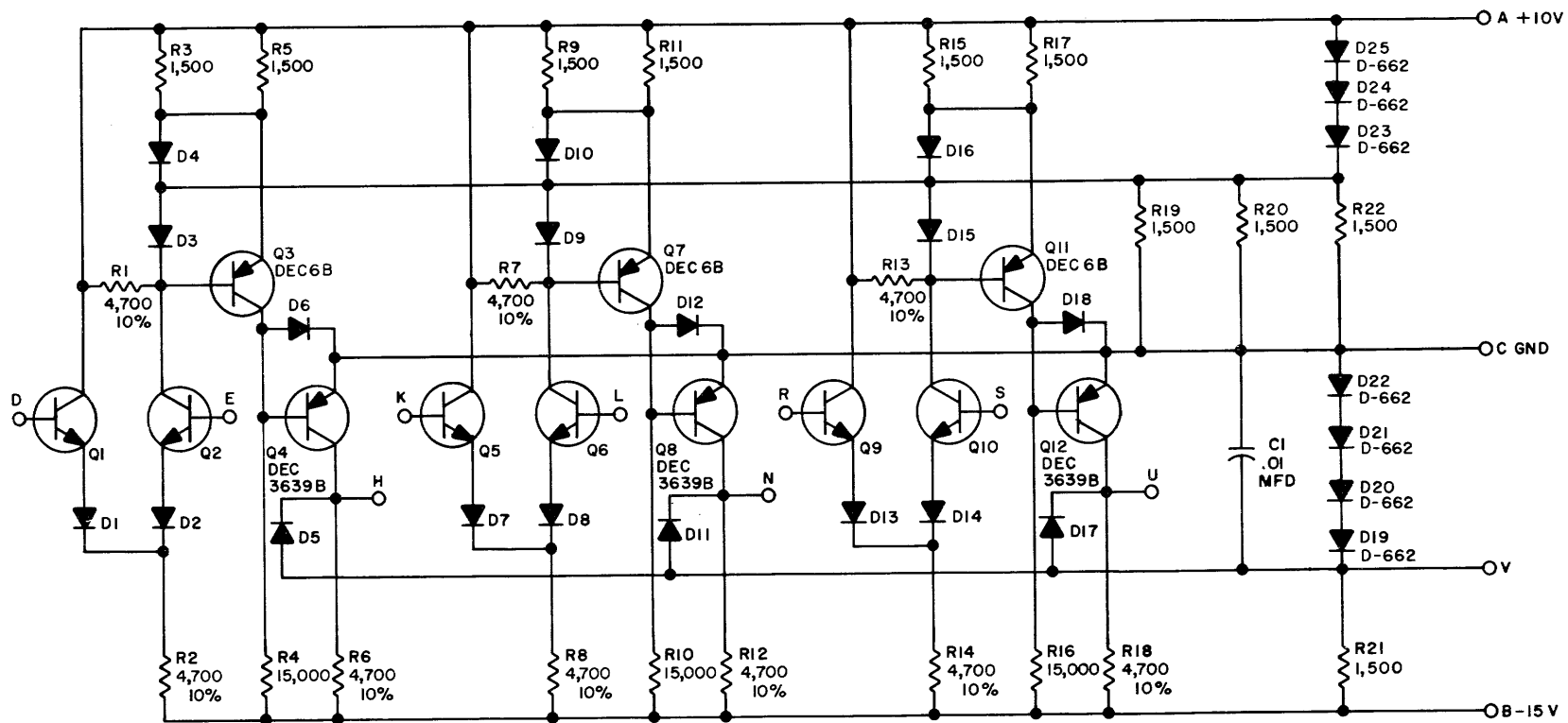
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REVISIONS				TRANSISTOR & DIODE CONVERSION CHART				TITLE			
CHK	CHG	NO	REV	DEC	EIA	DEC	EIA	SIZE	CODE	NUMBER	REV.
DAW	52.8.2	4		DEC2894-1B	NONE			B	CS	W513-0-1	E
REV	5.7.27			2N3605	SAME						
REV	5.7.4.1			D662	IN645						
REV	5.7.4.1			D664	IN3606						
DRN I. MAHN DATE 5-27-65				digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS				PRINTED CIRCUIT REV			
CHK'D R. SILVERMAN DATE 6-4-65								F			
ENG. D. WARDIMON DATE 6-5-65											
PROD											

REV. C	NUMBER W520-0-1	CS B	SIZE
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UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W; 5%
DIODES ARE D-664
TRANSISTORS ARE DEC 3009B

PARTS LIST A-PL-W520-0-0

REV.	CHG	NO.	REV.
1	5136	1	
2	5136	1	
3	5136	1	
4	5136	1	
5	5136	1	
6	5136	1	
7	5136	1	
8	5136	1	
9	5136	1	
10	5136	1	

DRN.	A. OUELLETTE	DATE	11-24-65
CHK'D	N. PERRYMAN	DATE	11-29-65
ENG.	D.A. WHITE	DATE	11-30-65
PROD.		DATE	

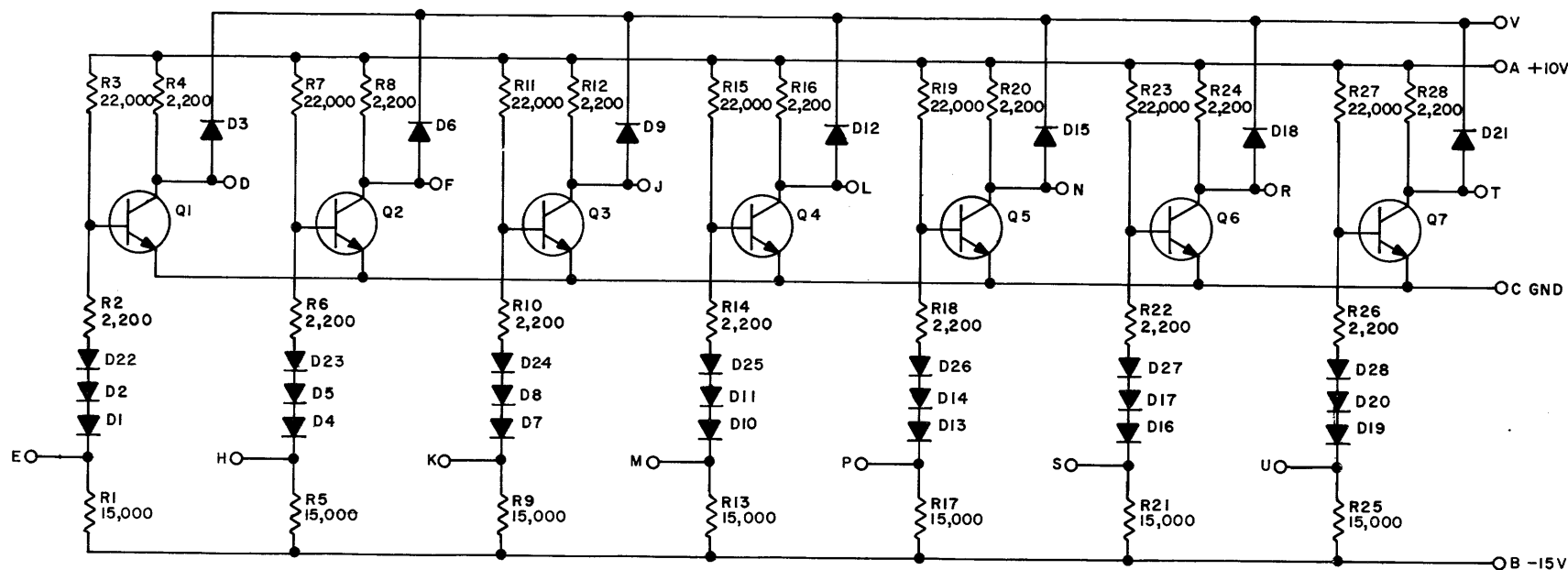
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC68	NONE		
DEC3009B	2N3009		
DEC3639B	2N3639		
D662	1N645		
D664	1N3606		

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE			
COMPARATOR W520			
SIZE	CODE	NUMBER	REV.
B	CS	W520-0-1	C
PRINTED CIRCUIT REV			
B			

REV. C
NUMBER W603-0-1
SIZE B
CODE CS

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UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 10%
DIODES ARE D664
TRANSISTORS ARE DEC3009B

PARTS LIST A-PL-W603-0-0

REV	CHG	NO	REV
6172	A		
6744	B		
7136	C		

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

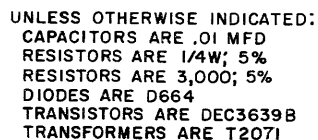
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3009B	2N3009		
D664	IN3606		

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE POSITIVE
LEVEL AMPLIFIER W603

SIZE	CODE	NUMBER	REV.
B	CS	W603-0-1	C

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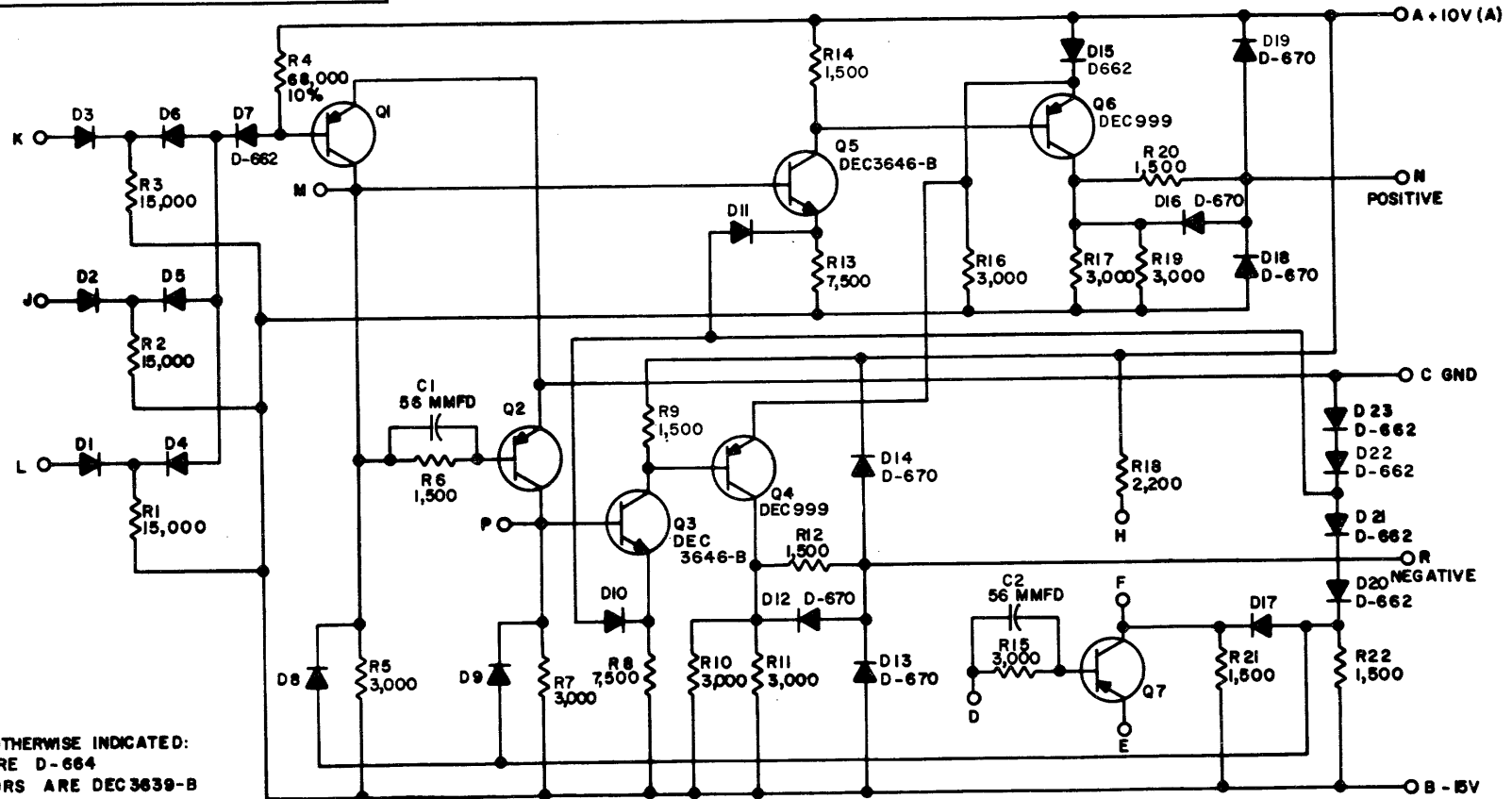
PARTS LIST A-PL-W640-0-0

TITLE			
PULSE AMPLIFIER W640			
SIZE	CODE	NUMBER	REV.
B	CS	W640-0-1	L

DIST.	324	434	435
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UNLESS OTHERWISE INDICATED:
DIODES ARE D-664
TRANSISTORS ARE DEC3639-B
RESISTORS ARE 1/4 W, 5%

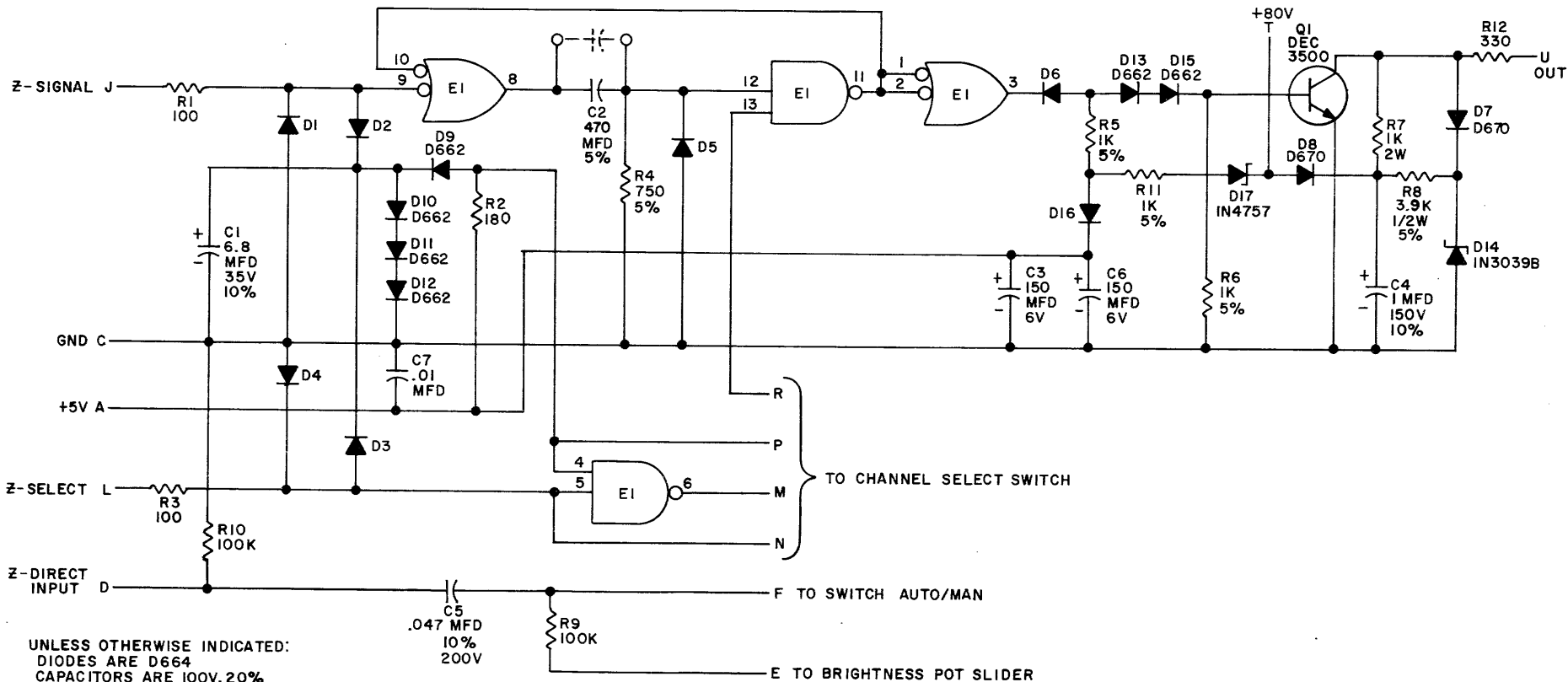


PARTS LIST A-PL-W681-O-0

REVISIONS					DRN.		DATE		TRANSISTOR & DIODE CONVERSION CHART				digital		TITLE			
CHK	CHG	NO.	REV.		I. HAHN		4-16-65		DEC	EIA	DEC	EIA	EQUIPMENT		SCOPE			
DAW	5370	2			R. SILVERMAN		4-21-65		DEC3639-B	2N3639-B	D670	IN3653	CORPORATION		INTENSIFIER W681			
REV	8 RED.	5441	C		ENG.	R. SOGGE	4-20-65		DEC999	MM999			MAYNARD, MASSACHUSETTS		SIZE	CODE	NUMBER	REV.
					PROD.				DEC3646-B	NONE					B	CS	W681-O-1	H
									D662	IN645					PRINTED CIRCUIT REV.			
									D664	IN3606					A			

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REV. E
NUMBER W682-0-1
SIZE B
CODE CS



REV.	CHG.	NO.	REV.
1	00001	B	
2	00002	C	
3	00003	D	
4	00004	E	

DRN.
Mr. Keller
DATE
5-20-69
CHK'D
R. D. Hallett
DATE
6/12/69
ENG.
L. J. 7 chlar
DATE
8/17/69
PROD.
C. J. Latta
DATE
8-5-69

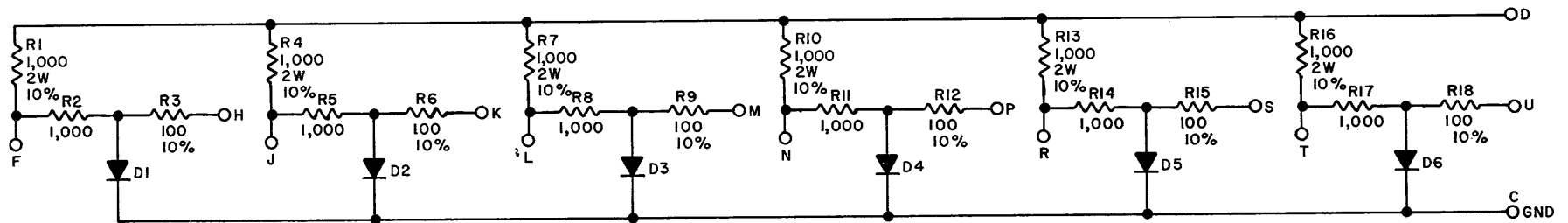
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D662	IN645	IN4757	SAME
D664	IN3606		
D670	IN3653		
IN3039B	SAME		
DEC3500	2N3500		

digital
 EQUIPMENT
 CORPORATION
 MAYNARD, MASSACHUSETTS

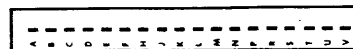
TITLE			
INTENSITY AMPLIFIER W682			
SIZE	CODE	NUMBER	REV.
B	CS	W682-0-1	E
PRINTED CIRCUIT REV.			A

REV	A	NUMBER	W701-0-1	CS	B	SIZE	3
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UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W; 5%
DIODES ARE D664

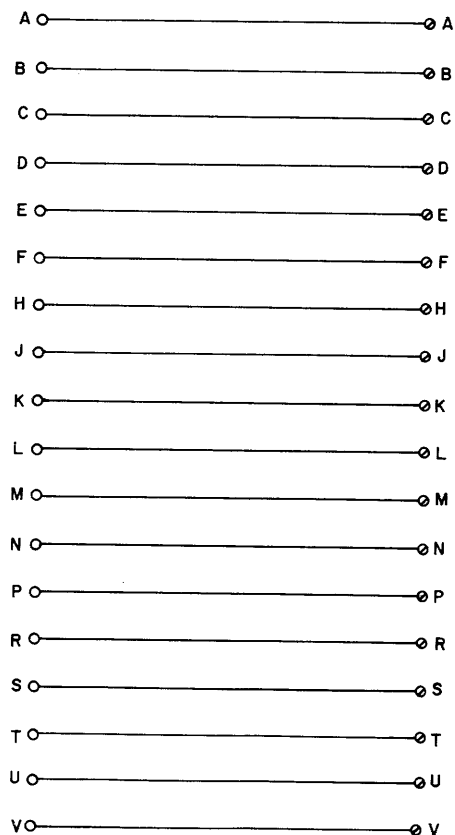


REVISIONS CHK CHG NO REV REV 8 REDR. 4-5532 A		DRN. I. HAHN DATE 10-20-65		TRANSISTOR & DIODE CONVERSION CHART <table border="1"> <tr> <td>DEC</td><td>EIA</td><td>DEC</td><td>EIA</td></tr> <tr> <td>D664</td><td>IN3606</td><td></td><td></td></tr> <tr> <td></td><td></td><td></td><td></td></tr> <tr> <td></td><td></td><td></td><td></td></tr> <tr> <td></td><td></td><td></td><td></td></tr> <tr> <td></td><td></td><td></td><td></td></tr> </table>				DEC	EIA	DEC	EIA	D664	IN3606																			digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		TITLE INPUT NETWORK W701	
DEC	EIA	DEC	EIA																																
D664	IN3606																																		
ENG. E. DE CASTRO DATE 10-21-65		PROD. DATE		SIZE B CS		CODE W701-0-1		NUMBER A		REV. A																									
PRINTED CIRCUIT REV.										A																									



REV. A	NUMBER W990-0-1	SIZE B	CODE CS
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REVISIONS	CHK CHG NO. REV.	DRN.	DATE	TRANSISTOR & DIODE CONVERSION CHART				digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE BLANK MODULE W990				
	1111 00001 A	CHK'D M. Marchand	4-28-69	DEC	EIA	DEC	EIA		SIZE B	CODE CS	NUMBER W990-0-1	REV. A	
		ENG. D. B. ...	DATE 5-12-69										
		PROD.	DATE										
DEC FORM NO. DRB 102										PRINTED CIRCUIT REV. E		DIST. 324,434,435 3	



5

PINK