

PDP-12
MAINTENANCE MANUAL
VOLUME IV
MODULE SCHEMATICS

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DIGITAL	COMPUTER LAB

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 Prcamps	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	VR 12 Power Supply	B
G-818	VR 12 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

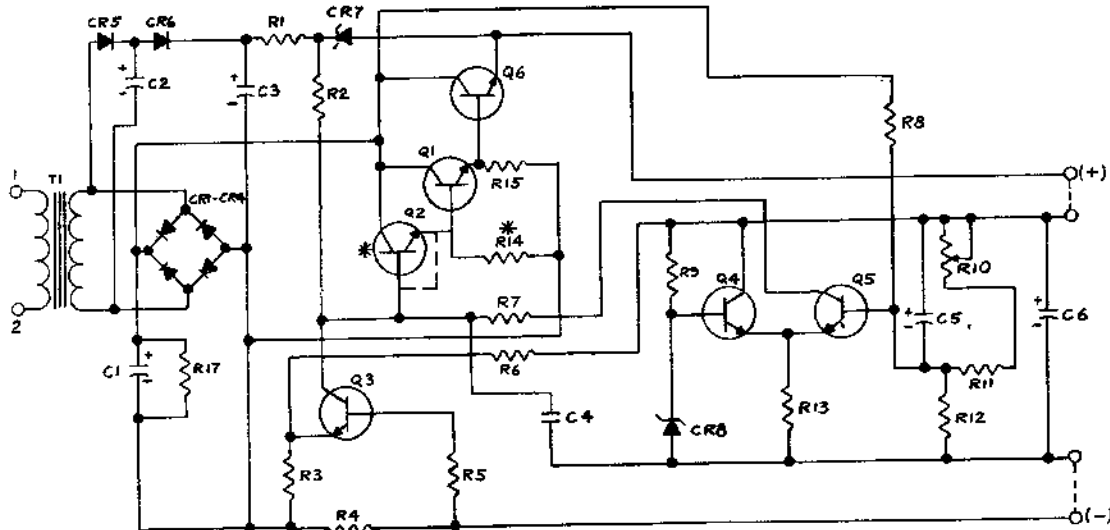
†Used by permission of Power-Mate Corp., Hackensack, New Jersey

REVISIONS

APPD

these drawings are the property of power/mate corp., and are issued in strict confidence and shall not be reproduced or copied used as the basis for the manufacture of apparatus without permission

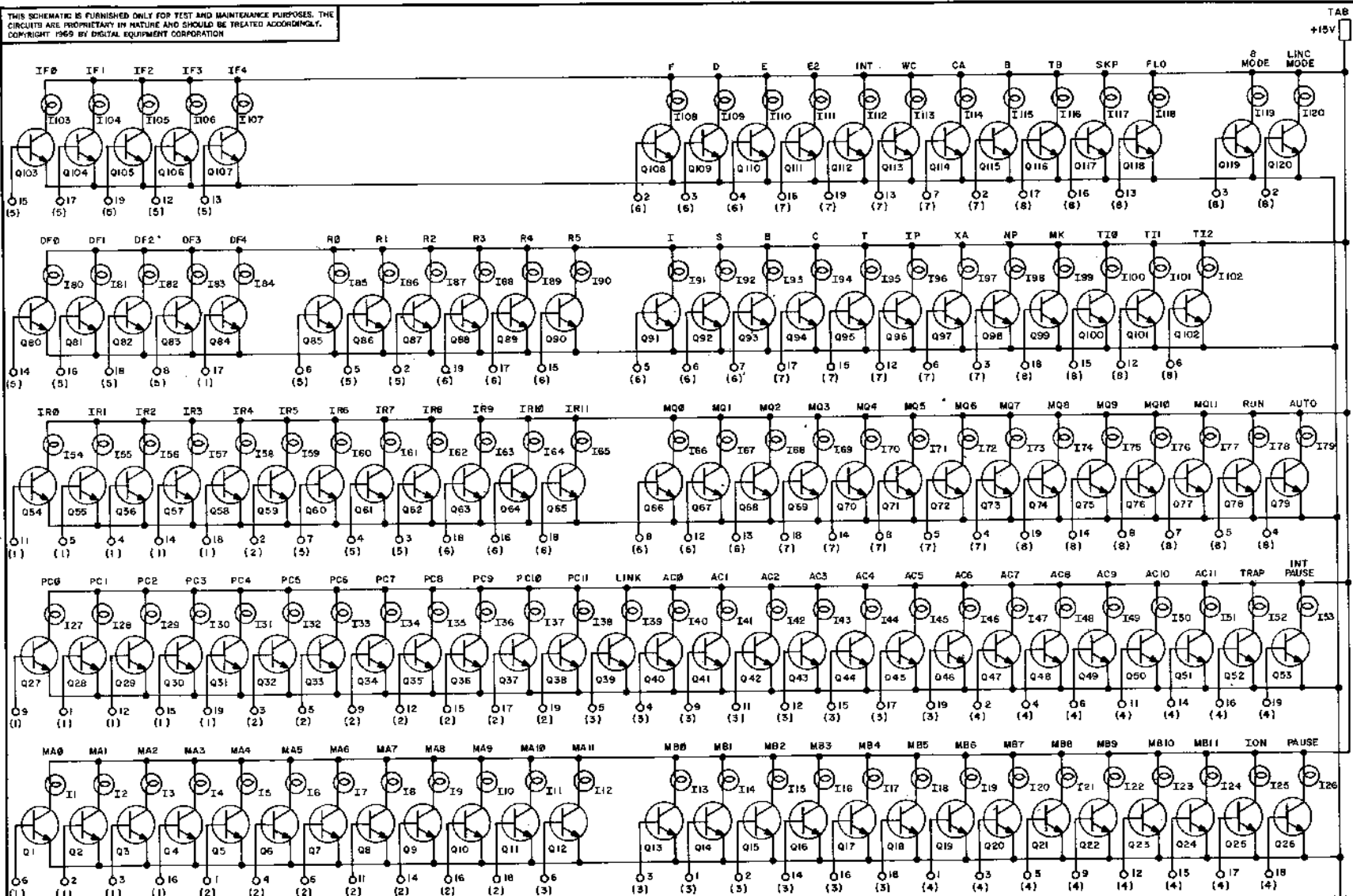
DIGITAL PART NUMBER
12-03185-02 REV F



* 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	
code ident no 23934		20885-8	
USED ON		SHEET OF	
SCALE		A	
12-12-69			

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UNLESS OTHERWISE INDICATED:
 LAMPS ARE 2313 DEC #1205550
 TRANSISTORS ARE DEC 2 #1505650
 NUMBERS IN PARENTHESIS () DESIGNATE FLEXPRINT CONNECTOR NO.

REVISIONS
 CHG NO. REV.

DRW. *m. J. J. J.* DATE *1-28-69*
 CH'D *H. M. J.* DATE *3/2/69*
 DES. *J. J. J.* DATE *1/2/69*
 PROD. DATE

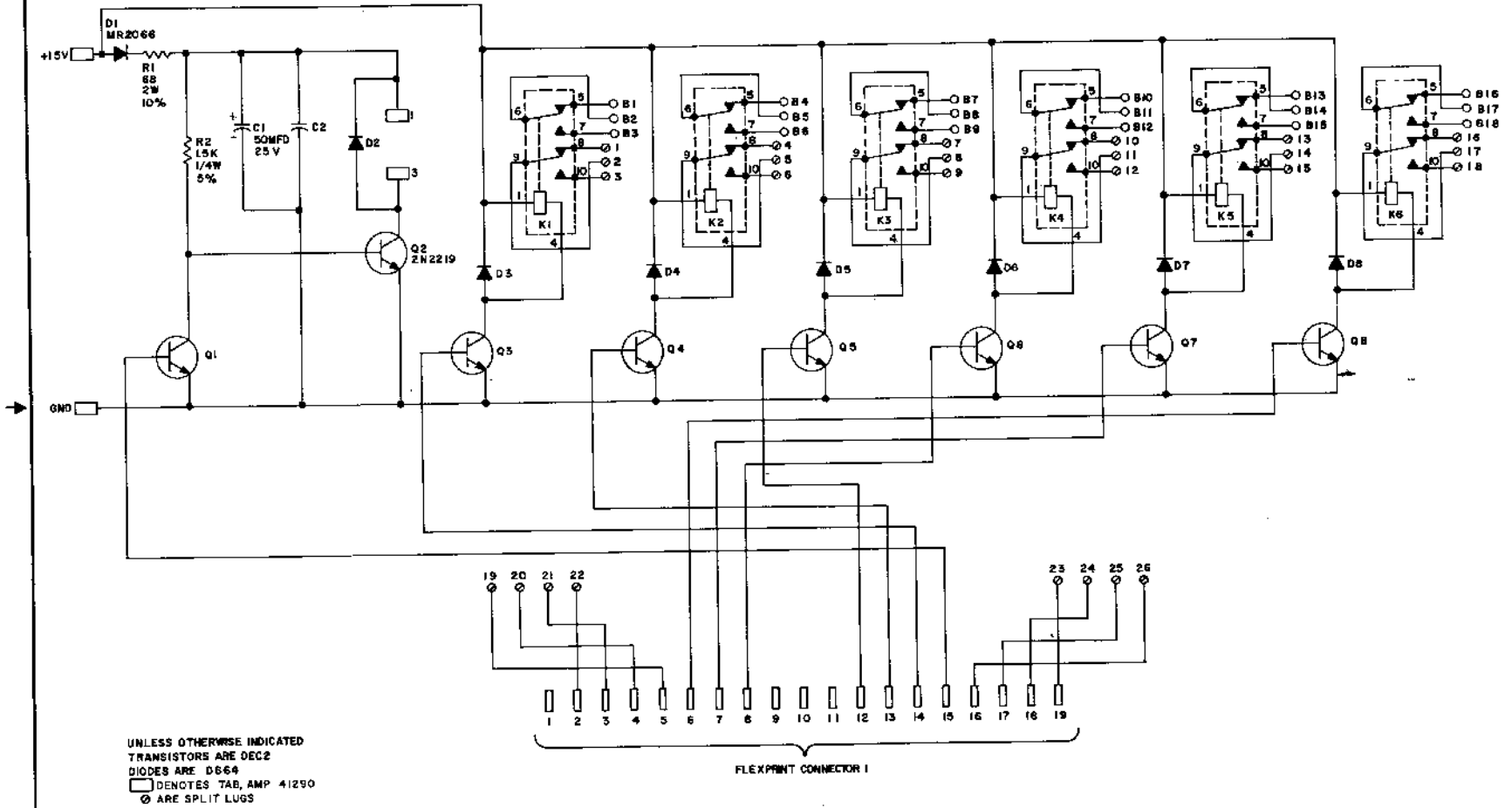
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EA	DEC	EA
DEC 2	2W3009		

digital
 EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

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

REV. 5408114-0-1

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REVISIONS
 CHG ENG NO REV

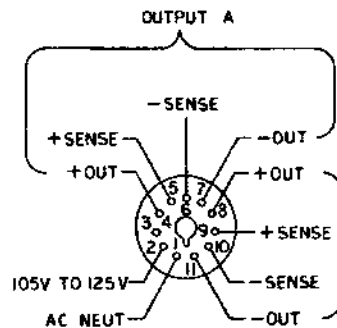
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DATE	BY	DEC	EIA
12-3-69	MR2066	184003	
	DB64	183608	
	ZN2219	8AMP	
	DEC2	EM3008	

digital
 EQUIPMENT CORPORATION
 MAYFORD, MASSACHUSETTS

TITLE: RELAY BOARD 5408124
 NUMBER: 5408124-0-1
 SIZE: C CODE: CS
 PRINTED CIRCUIT REV: A

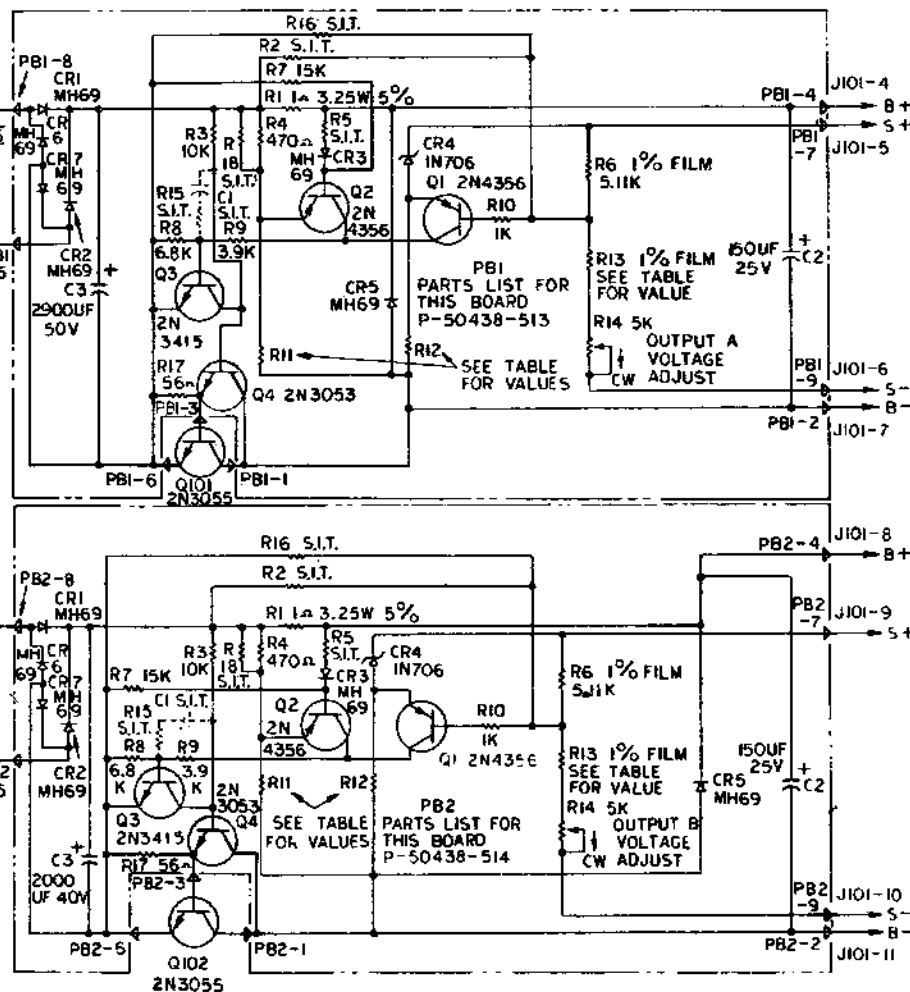
REV: 1
 NUMBER: 5408124-0-1
 SIZE CODE: C

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	RN	PB2	PB1	R12	PB2	PB1	R13	PB2
6575-1	1.5K	2.7K	560Ω	1.2K	1K	4.64K		
6575-2	2.7K	2.7K	1.2K	1.2K	4.64K	4.64K		
6575-3	3.3K	2.7K	2.2K	1.2K	7.87K	4.64K		



DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING, DO NOT SCALE DRAWING.
 ALL EXTERNAL THREADS TO BE CLASS 2B UNLESS NOTED. ALL INTERNAL THREADS TO BE CLASS 2B UNLESS NOTED OTHERWISE. THE PARTS LIST IS THE AUTHORITY FOR THE IDENTIFICATION OF THE PARTS LISTED IN THIS SCHEMATIC.

DIMENSIONS AND WEIGHTS		FUNCTIONAL DIMENSIONS		MECHANICAL DIMENSIONS	
UP TO 6	± 1/16	± .005	± .005	± .005	± .005
6 TO 10	± 1/32	± .005	± .005	± .005	± .005
10 TO 20	± 1/16	± .005	± .005	± .005	± .005
20 TO 30	± 1/8	± .005	± .005	± .005	± .005
30 TO 40	± 1/4	± .005	± .005	± .005	± .005
40 TO 50	± 1/2	± .005	± .005	± .005	± .005
50 TO 60	± 3/4	± .005	± .005	± .005	± .005
60 TO 70	± 1	± .005	± .005	± .005	± .005
70 TO 80	± 1 1/4	± .005	± .005	± .005	± .005
80 TO 90	± 1 1/2	± .005	± .005	± .005	± .005
90 TO 100	± 1 3/4	± .005	± .005	± .005	± .005
100 TO 120	± 2	± .005	± .005	± .005	± .005
120 TO 150	± 2 1/2	± .005	± .005	± .005	± .005
150 TO 200	± 3	± .005	± .005	± .005	± .005
200 TO 300	± 4	± .005	± .005	± .005	± .005
300 TO 400	± 5	± .005	± .005	± .005	± .005
400 TO 500	± 6	± .005	± .005	± .005	± .005
500 TO 600	± 7	± .005	± .005	± .005	± .005
600 TO 700	± 8	± .005	± .005	± .005	± .005
700 TO 800	± 9	± .005	± .005	± .005	± .005
800 TO 900	± 10	± .005	± .005	± .005	± .005
900 TO 1000	± 11	± .005	± .005	± .005	± .005
1000 TO 1200	± 12	± .005	± .005	± .005	± .005
1200 TO 1500	± 14	± .005	± .005	± .005	± .005
1500 TO 2000	± 16	± .005	± .005	± .005	± .005
2000 TO 3000	± 18	± .005	± .005	± .005	± .005
3000 TO 4000	± 20	± .005	± .005	± .005	± .005
4000 TO 5000	± 22	± .005	± .005	± .005	± .005
5000 TO 6000	± 24	± .005	± .005	± .005	± .005
6000 TO 7000	± 26	± .005	± .005	± .005	± .005
7000 TO 8000	± 28	± .005	± .005	± .005	± .005
8000 TO 9000	± 30	± .005	± .005	± .005	± .005
9000 TO 10000	± 32	± .005	± .005	± .005	± .005

SCHEMATIC

FIRST MADE FOR 6575

USED IN

DESIGNED BY

CHECKED BY

APPROVED BY

DATE

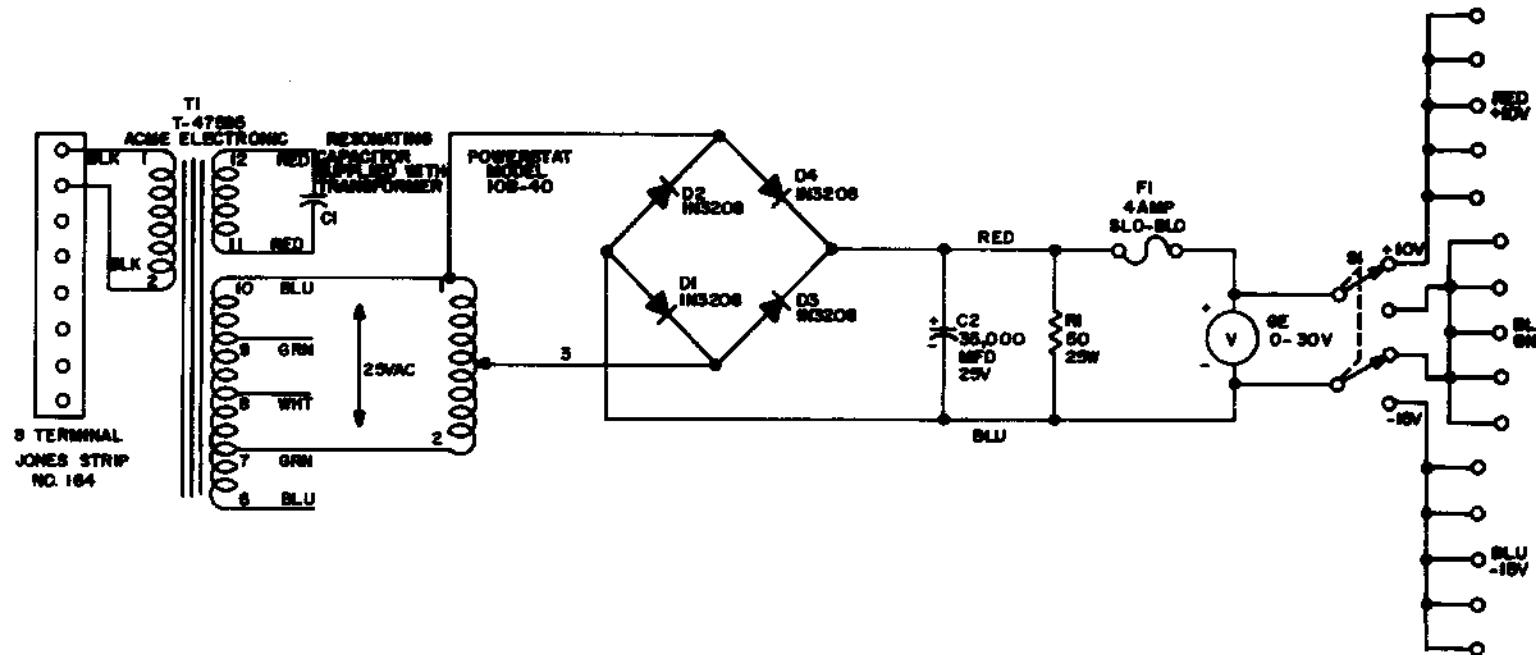
Deltron, Inc.

C 13495

C-13495

REVISIONS	
AP NO	0
AP REC	
ECN 69-169	1
AP NO	
ECN 69-201	2
AP NO	
AP REC	

CS-B-734B-2

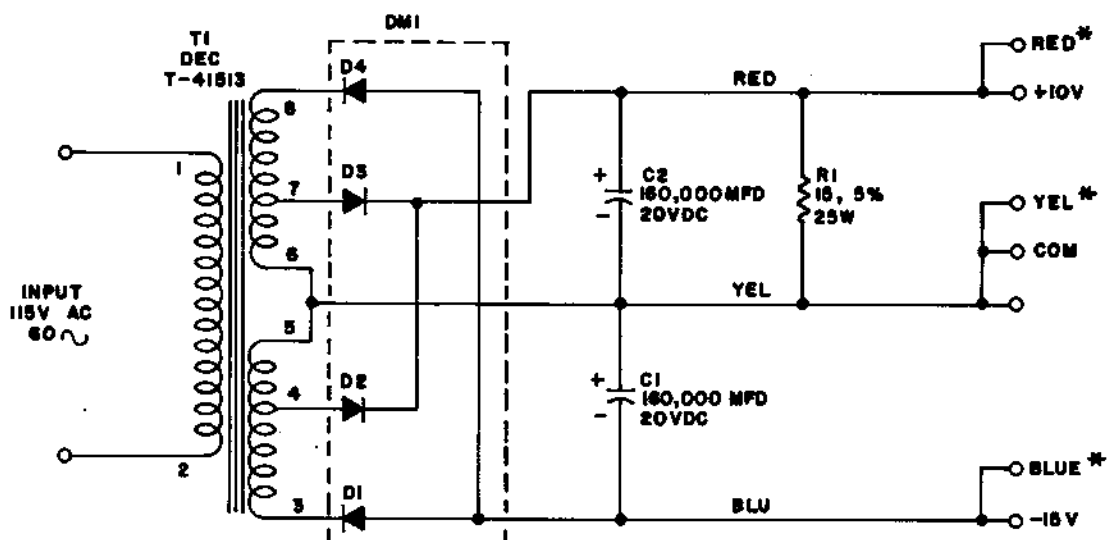


NOTE:
OUTPUT IS CONNECTED THROUGH
HEYMAN TAB TERMINALS

REVISIONS REC. NO. ENG.	DRAFTSMAN H. REPORTER DATE 1-23-64	CHECKER AMYTHANIAN DATE 1-23-64	digital EQUIPMENT CORPORATION WATUARY, MASSACHUSETTS, U.S.A.	CODE CS	DWG. NO. B-734B	RE 2
	ENGINEER D.A. WHITE DATE 1-24-64	PRODUCTION I DATE	TITLE VARIABLE POWER SUPPLY 734B			

REV. C
 NUMBER 783-0-1
 SIZE CODE B CS

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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
	AW		4740	2
	REVISED		NOV 6033	C

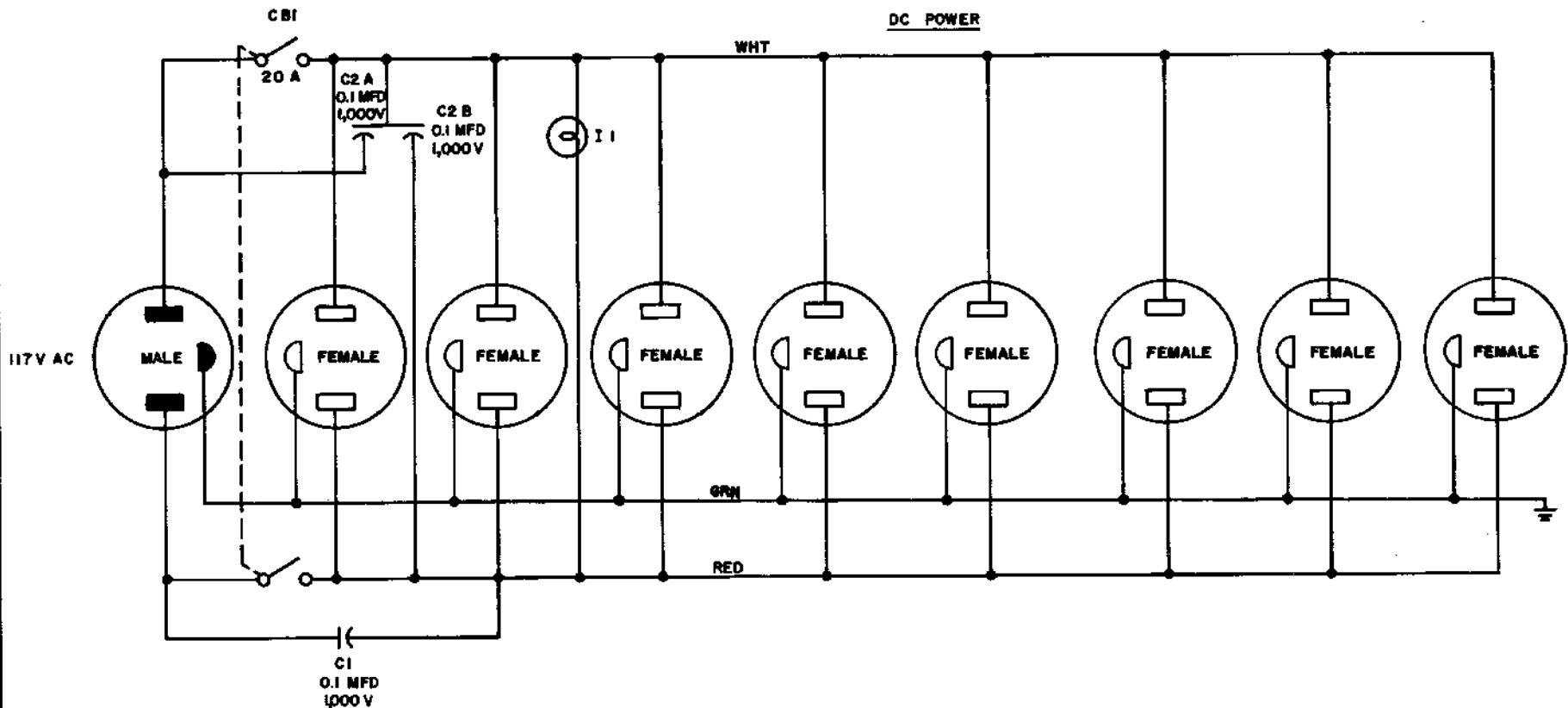
DRN N.W.PORTER	DATE 11-20-68
CHK'D A.VARTANIAN	DATE 11-27-68
ENG. R.OOANE	DATE 11-27-68
PROD	DATE

TRANSISTOR & DIODE CONVERSION CHART			
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.			

CS-828-1



NOTE:
 CBI IS A DPST HEINEMANN ELEC. CO. XAM33 CURVE 4
 I1 IS A NEON PILOT LIGHT-NE-2D
 ALL SOCKETS AND PLUGS ARE SHOWN IN REAR VIEW

3012-1	CHNO APP	EXPER	DRAWN J.S. CARO 2-11-63
	CHANGE	PRODUCTION	CHECKED <i>[Signature]</i>
		OTHER	ENGINEER <i>[Signature]</i>

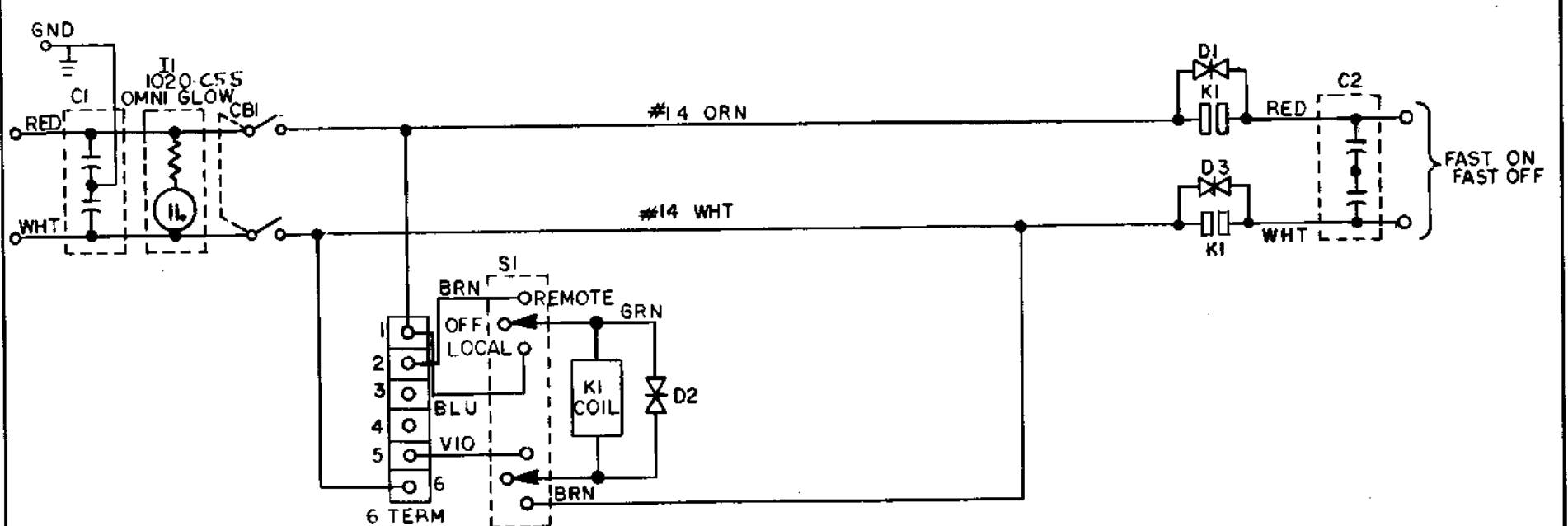
digital EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

CS-828-1

POWER RECEPTACLE 828

REV. A
 NUMBER CS 854-0-1
 SIZE CODE B

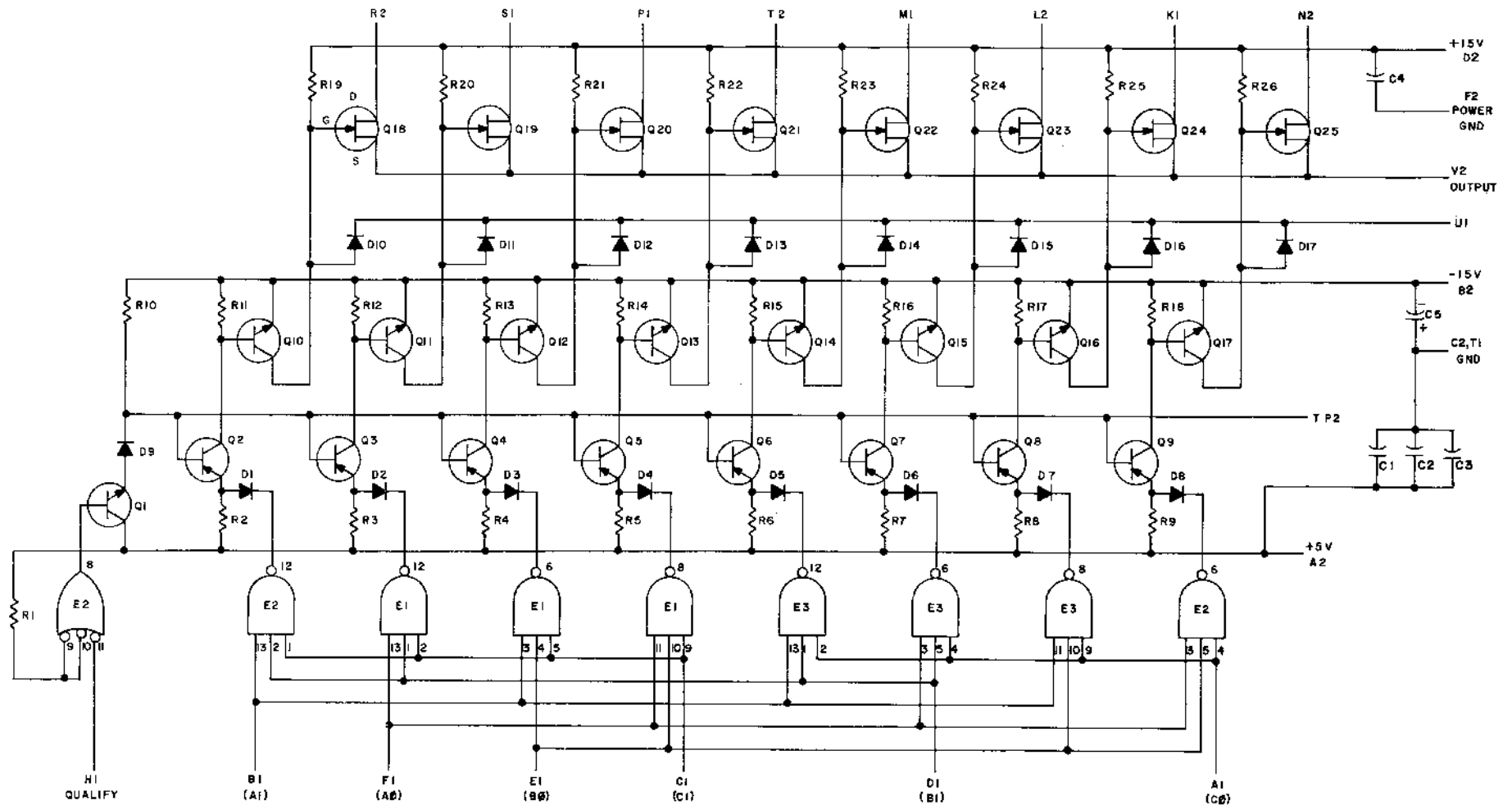
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I1	LIGHT OMNI GLOW 1020 C55	1201280
D1, D2, D3	DIODE THY 6R520SP484	1100106
C1	CIR BREAKER*190-220-104	1201218
K1	RELAY EM-4, 115V	1205768
SI	TOGGLE SW CH 7563KE	1205964
C1 & C2	CAP. 2X .1MFD 1KVDC	1000034
	PARTS LIST	A-PL-854-0-0
REF DESIGNATION	DESCRIPTION	PART NO

REVISIONS CHG NO. REV. 1 10/21/68 2 11/13/68 3 11/13/68	DRN. P. L. BLANK DATE 10-21-68	TRANSISTOR & DIODE CONVERSION CHART DEC EIA DEC EIA				digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE POWER CONTROL 854		
	ENG. G. W. GERELDS DATE 11/13/68 PROD. G. W. GERELDS DATE 11/13/68						SIZE B CODE CS NUMBER 854-0-1 REV. A	PRINTED CIRCUIT REV.	

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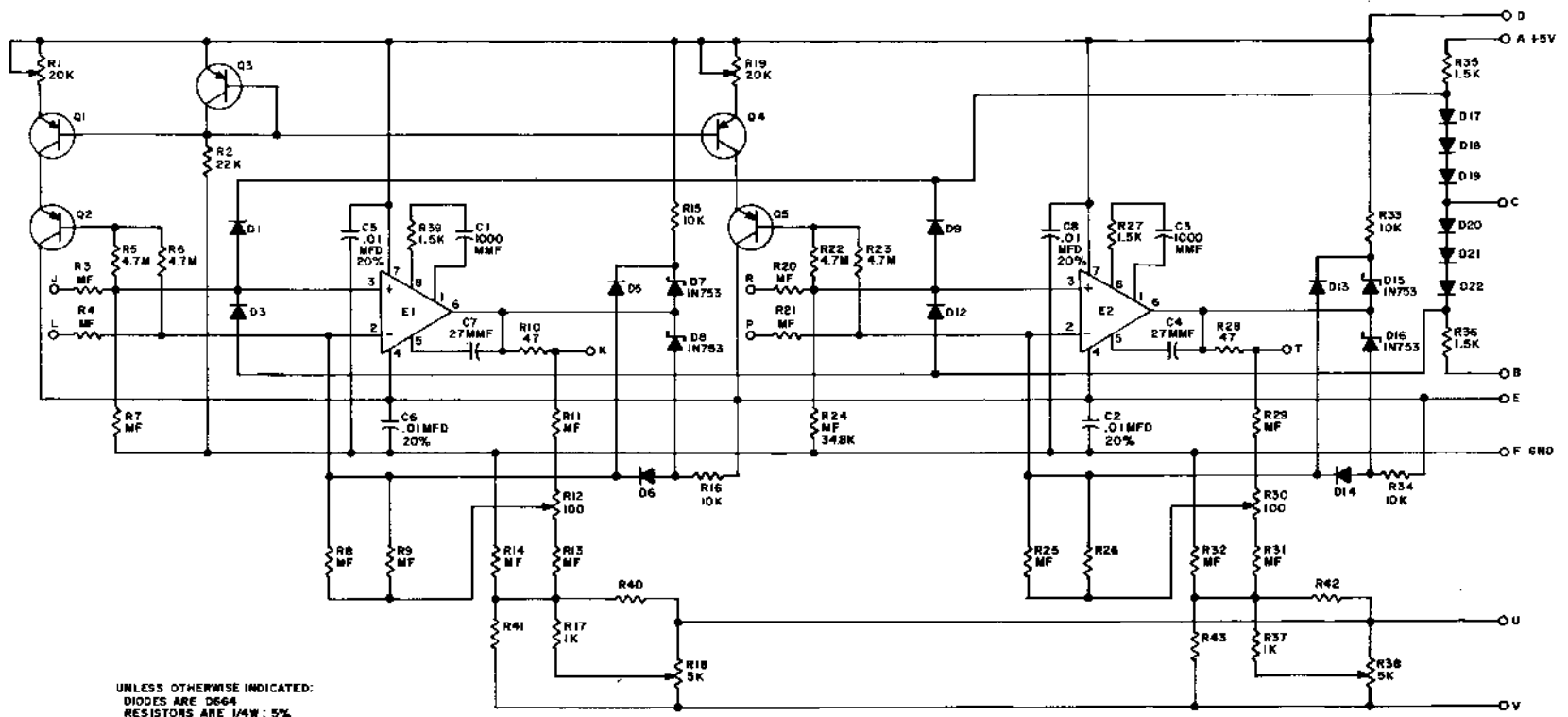
NOTE:
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
E1, E2, E3	INTEGRATED CKT DEC7410M	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 3.3K 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 CHG NO. REV 00001 1 00002 2	DATE 2-11-69	TRANSDUCER & DIODE CONVERSION CHART DEC EIA D664 1N3606 DEC3009B 2N3009 DEC6534B MPS6334 2N5245 NONE	TITLE digital MULTIPLEX A131 EQUIPMENT CORPORATION WAYARD, MASSACHUSETTS SIZE CODE NUMBER C CS A131-0-1 PRINTED CIRCUIT REV. B
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FILE NO. NUMBER
 C CS A131-0-1

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UNLESS OTHERWISE INDICATED:
 DIODES ARE D664
 RESISTORS ARE 1/4W, 5%
 MF RESISTORS ARE 1/8W, 1%; 100MFF
 TRANSISTORS ARE 2N4250
 R1, R19 ARE ALLEN BRADLEY 2V-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
110	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	VARIATION	R41	R3	R4	R7	R6	R9	R11	R13	R14	R40
		R43	R20	R21	R24	R25	R26	R29	R31	R32	R42

REV. 1	DATE	BY
REV. 2	DATE	BY
REV. 3	DATE	BY
REV. 4	DATE	BY
REV. 5	DATE	BY

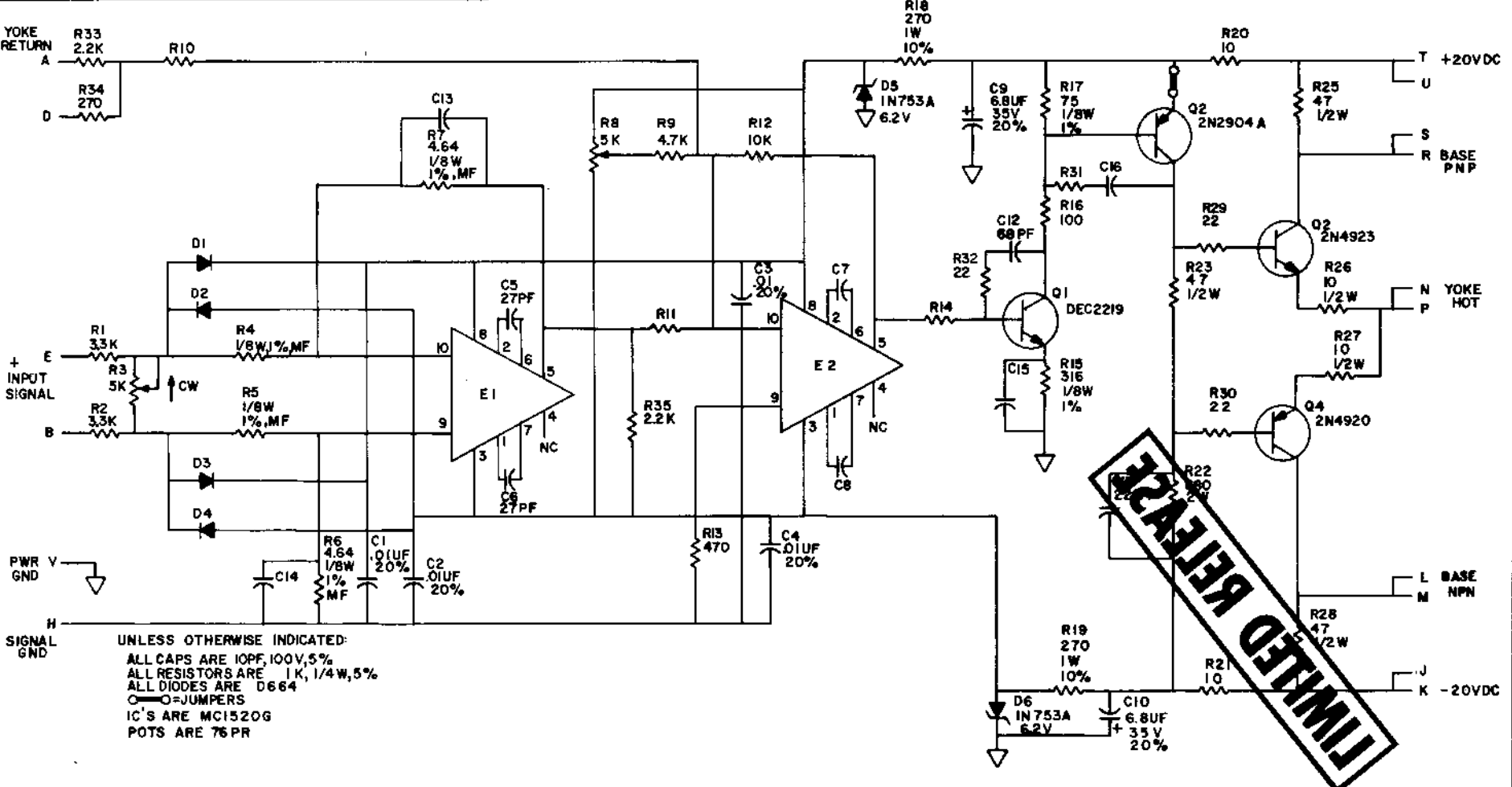
DATE	2-28-69
DATE	3-5-69
DATE	IN753
DATE	2N4250

DEC	EIA
DEC	EIA
DEC	EIA
DEC	EIA

digital
 EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

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

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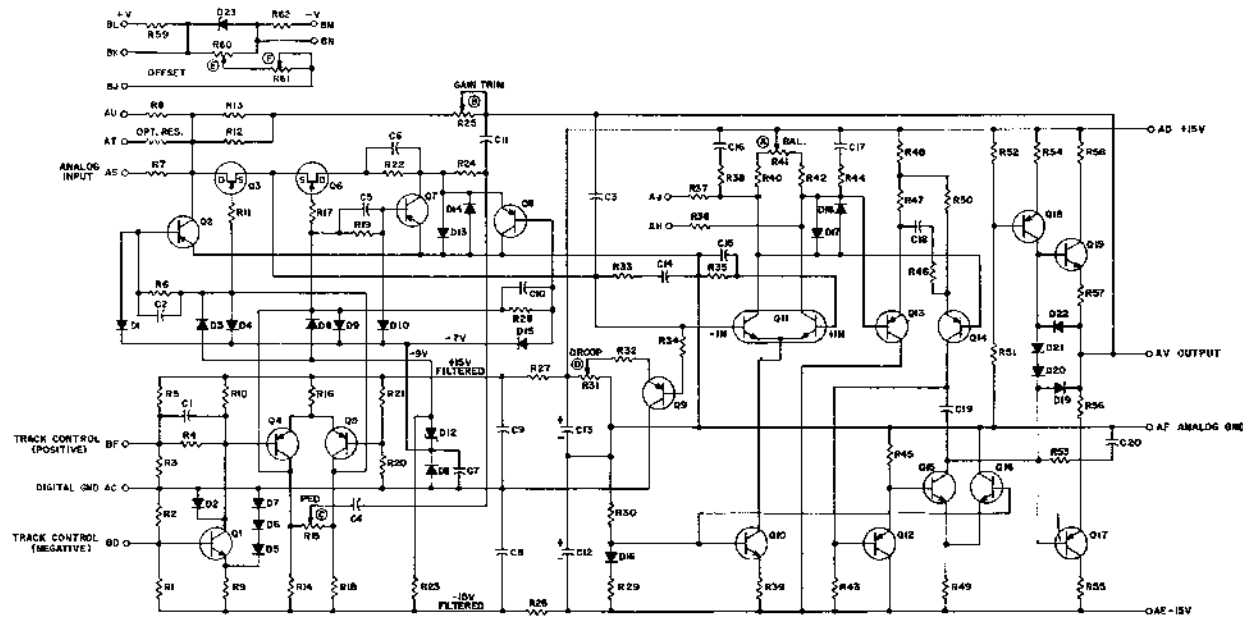


UNLESS OTHERWISE INDICATED:
 ALL CAPS ARE 10PF, 100V, 5%
 ALL RESISTORS ARE 1K, 1/4W, 5%
 ALL DIODES ARE D664
 ○-○=JUMPERS
 IC'S ARE MC1520G
 POTS ARE 76PR

REVISIONS CHK CHG NO. REV	DRN <i>Schmitt</i>	DATE 6/10/70	TRANSISTOR & DIODE CONVERSION CHART				digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE DEFLECTION AMPLIFIER A225		
	CHKD <i>Schmitt</i>	DATE 12/7/70	DEC	EIA	DEC	EIA		SIZE B	CODE CS	NUMBER A225-0-1	REV A
	ENG <i>Schmitt</i>	DATE 12-9-70	DEC2219	2N2219						
	PROD <i>Schmitt</i>	DATE	2N4920	SAME						
			D664	1N3606						
			1N753	SAME						
DEC FORM NO. DRB 102							PRINTED CIRCUIT REV. B		Pink Blue	

THIS SCHEMATIC IS FOR MAINTENANCE ONLY. FOR THE FIRST TIME MAINTENANCE PURPOSES THE COMPONENTS ARE PROVIDED IN THE SCHEMATIC ONE SHOULD BE TREATED ACCORDINGLY. COMPONENTS SHOULD BE REPLACED ONLY AFTER CONSULTATION WITH THE MANUFACTURER'S REPRESENTATIVE.

1-0-10-1 200 L18

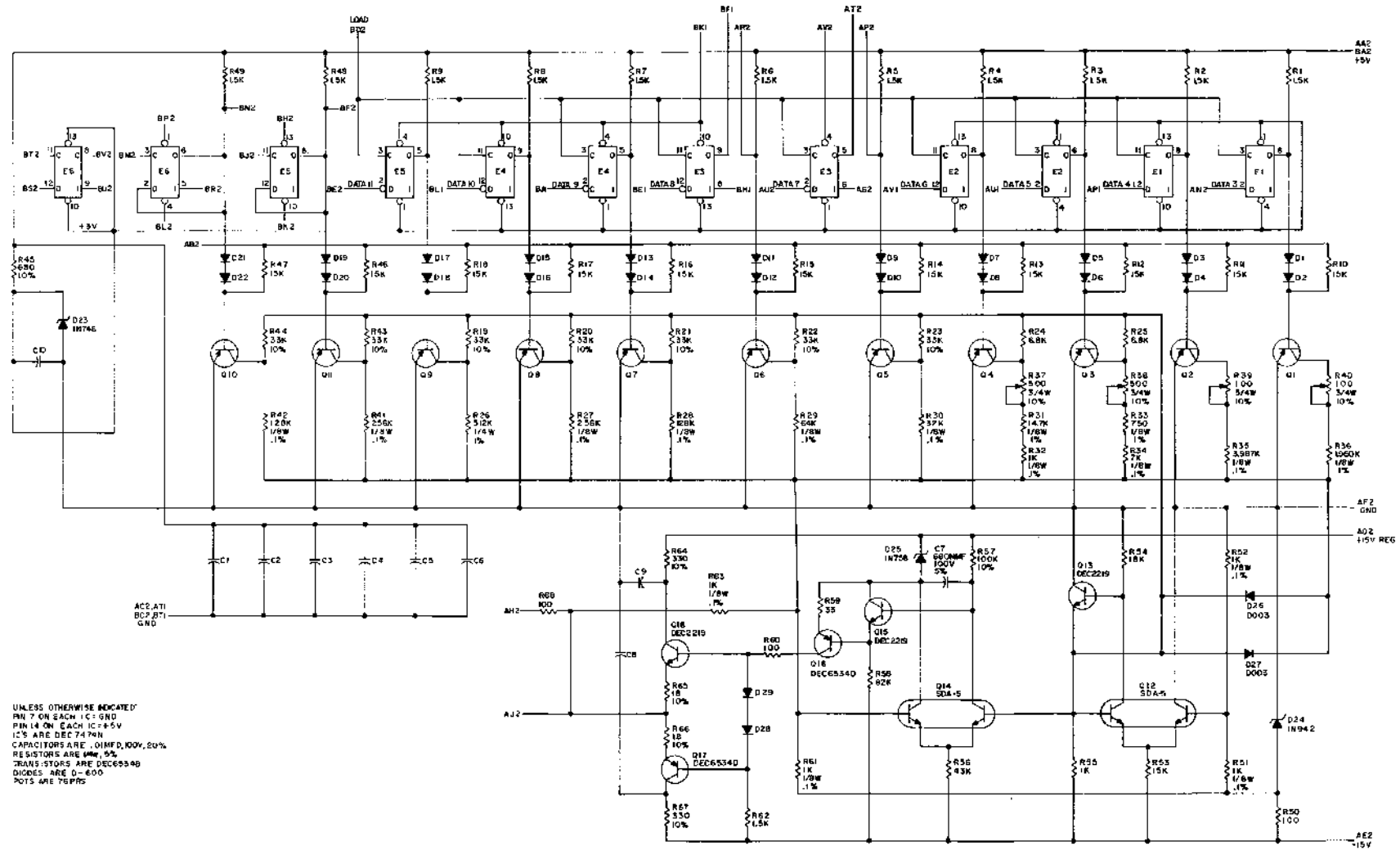


REF. DES.	QUANTITY	DESCRIPTION	PART NO.
R59, R62	RES. 618 1/8W 1% 100MPP	1305126	
R61	RES. 1K TRIMPOT	1305452	
D23	DIODE 1N3156	1001377	
Q2, Q15, Q16	TRANSISTOR 2N4260	1305442	
Q11	TRANSISTOR 2N4403-S	1301857	
Q10, Q15, Q16, Q19	TRANSISTOR 2N2219-S	1301881	
Q6, Q17, Q18	TRANSISTOR 2N2214D	1305409	
Q13, Q5	TRANSISTOR 2N2613 PFT	1301233	
Q2, Q4, Q3, Q7, Q8	TRANSISTOR 2N2344C	1305409-02	
Q1	TRANSISTOR 2N2344B	1305100	
R55, R58	RES. 10K 1/4W 5% CC	1300220	
R31	RES. 10K 1/4W 5% CC	1300468	
R48	RES. 5.6K 1/8W 1% 100MPP	1305126	
R47, R50	RES. 56K 1/8W 1% 100MPP	1304832	
R46	RES. 470 1/4W 5% CC	1300316	
R43	RES. 12.1K 1/8W 1% 100MPP	1305145	
R41	RES. 10K BOURN TRIMPOT	1305455	
R40, R42	RES. 68.1K 1/8W 1% 100MPP	1305232	
R39	RES. 33.2K 1/8W 1% 100MPP	1305156	
R38, R44	RES. 2K 1/4W 5% CC	1302348	
R34	RES. 920K 1/4W 10% CC	1303187	
R33, R52	RES. 2.4K 1/4W 5% CC	1305127	
R32	RES. 100K 1/4W 5% CC	1300466	
R29	RES. 1.62K 1/8W 1% 100MPP	1304862	
D26, R27, R36, R37	RES. 1K 1/4W 5% CC	1302194	
R28	RES. 20K TRIMPOT	1305454	
R24, R35	RES. 56 1/8W 5% CC	1302602	
R23, R49	RES. 560 1/4W 5% CC	1301850	
R11, R30	RES. 10K 1/8W 1% 100MPP	1305142	
R50	RES. 1K 1/8W 1% 100MPP	1305114	
R16	RES. 1.2K 1/2W 5% CC	1300385	
R15, R51, R60	RES. 50K TRIMPOT	1305455	
R14, R17	RES. 2.2K 1/4W 5% CC	1300468	
R12	RES. 1.024M 1/2W 1% 25MPP	1305519	
R9	RES. 5.1K 1/8W 1% 25MPP	1306432	
R7, R13	RES. 10K 1/8W 1% 25MPP	1305411	
R6, R11, R17	RES. 10K 1/4W 5% CC	1300479	
R4, R54	RES. 1K 1/4W 5% CC	1300365	
R2, R3, R5, R25, R35, R36, R37, R38	RES. 5.6K 1/4W 5% CC	1301874	
R1, R8, R10, R12, R22	RES. 20K 1/4W 5% CC	1302391	
D16, D20, D21	DIODE D662	1101413	
D12	DIODE 1N758A, 5.2V	1101441	
D1 - D11, D13 - D15, D17 - D19, D22	DIODE D664	1100114	
D18	CAP. 10 MFM 100V 5% D.M	1000006	
C16, C17	CAP. 100MFM 100V 5% D.M	1000006	
C15, C13	CAP. 5.6MFM 50V 20% 5TANT	1000007	
C11	CAP. 5000MFM 100V 5%	1005619	
C7, C9, C8, C15	CAP. 0.1MFM 100V 20% 5TANT	1001610	
C4, C5, C13	CAP. 0.1MFM 100V 5% D.M	1000006	
C5, C20	CAP. 27MFM 100V 5% D.M	1001739	
C1, C2, C3, C10, C14	CAP. 0.1MFM 100V 5% D.M	1000011	

REF. DES.	QUANTITY	DESCRIPTION	PART NO.
R59, R62	RES. 618 1/8W 1% 100MPP	1305126	
R61	RES. 1K TRIMPOT	1305452	
D23	DIODE 1N3156	1001377	
Q2, Q15, Q16	TRANSISTOR 2N4260	1305442	
Q11	TRANSISTOR 2N4403-S	1301857	
Q10, Q15, Q16, Q19	TRANSISTOR 2N2219-S	1301881	
Q6, Q17, Q18	TRANSISTOR 2N2214D	1305409	
Q13, Q5	TRANSISTOR 2N2613 PFT	1301233	
Q2, Q4, Q3, Q7, Q8	TRANSISTOR 2N2344C	1305409-02	
Q1	TRANSISTOR 2N2344B	1305100	
R55, R58	RES. 10K 1/4W 5% CC	1300220	
R31	RES. 10K 1/4W 5% CC	1300468	
R48	RES. 5.6K 1/8W 1% 100MPP	1305126	
R47, R50	RES. 56K 1/8W 1% 100MPP	1304832	
R46	RES. 470 1/4W 5% CC	1300316	
R43	RES. 12.1K 1/8W 1% 100MPP	1305145	
R41	RES. 10K BOURN TRIMPOT	1305455	
R40, R42	RES. 68.1K 1/8W 1% 100MPP	1305232	
R39	RES. 33.2K 1/8W 1% 100MPP	1305156	
R38, R44	RES. 2K 1/4W 5% CC	1302348	
R34	RES. 920K 1/4W 10% CC	1303187	
R33, R52	RES. 2.4K 1/4W 5% CC	1305127	
R32	RES. 100K 1/4W 5% CC	1300466	
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R28	RES. 20K TRIMPOT	1305454	
R24, R35	RES. 56 1/8W 5% CC	1302602	
R23, R49	RES. 560 1/4W 5% CC	1301850	
R11, R30	RES. 10K 1/8W 1% 100MPP	1305142	
R50	RES. 1K 1/8W 1% 100MPP	1305114	
R16	RES. 1.2K 1/2W 5% CC	1300385	
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R9	RES. 5.1K 1/8W 1% 25MPP	1306432	
R7, R13	RES. 10K 1/8W 1% 25MPP	1305411	
R6, R11, R17	RES. 10K 1/4W 5% CC	1300479	
R4, R54	RES. 1K 1/4W 5% CC	1300365	
R2, R3, R5, R25, R35, R36, R37, R38	RES. 5.6K 1/4W 5% CC	1301874	
R1, R8, R10, R12, R22	RES. 20K 1/4W 5% CC	1302391	
D16, D20, D21	DIODE D662	1101413	
D12	DIODE 1N758A, 5.2V	1101441	
D1 - D11, D13 - D15, D17 - D19, D22	DIODE D664	1100114	
D18	CAP. 10 MFM 100V 5% D.M	1000006	
C16, C17	CAP. 100MFM 100V 5% D.M	1000006	
C15, C13	CAP. 5.6MFM 50V 20% 5TANT	1000007	
C11	CAP. 5000MFM 100V 5%	1005619	
C7, C9, C8, C15	CAP. 0.1MFM 100V 20% 5TANT	1001610	
C4, C5, C13	CAP. 0.1MFM 100V 5% D.M	1000006	
C5, C20	CAP. 27MFM 100V 5% D.M	1001739	
C1, C2, C3, C10, C14	CAP. 0.1MFM 100V 5% D.M	1000011	

digital SAMPLE AND HOLD A404

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UNLESS OTHERWISE INDICATED
 PIN 7 ON EACH IC = GND
 PIN 14 ON EACH IC = +5V
 IC'S ARE DEC 7474N
 CAPACITORS ARE .01MFD, 100V, 50V
 RESISTORS ARE 1/4W, 5%
 TRANSISTORS ARE DEC6554D
 DIODES ARE D-600
 POTS ARE 75PFS

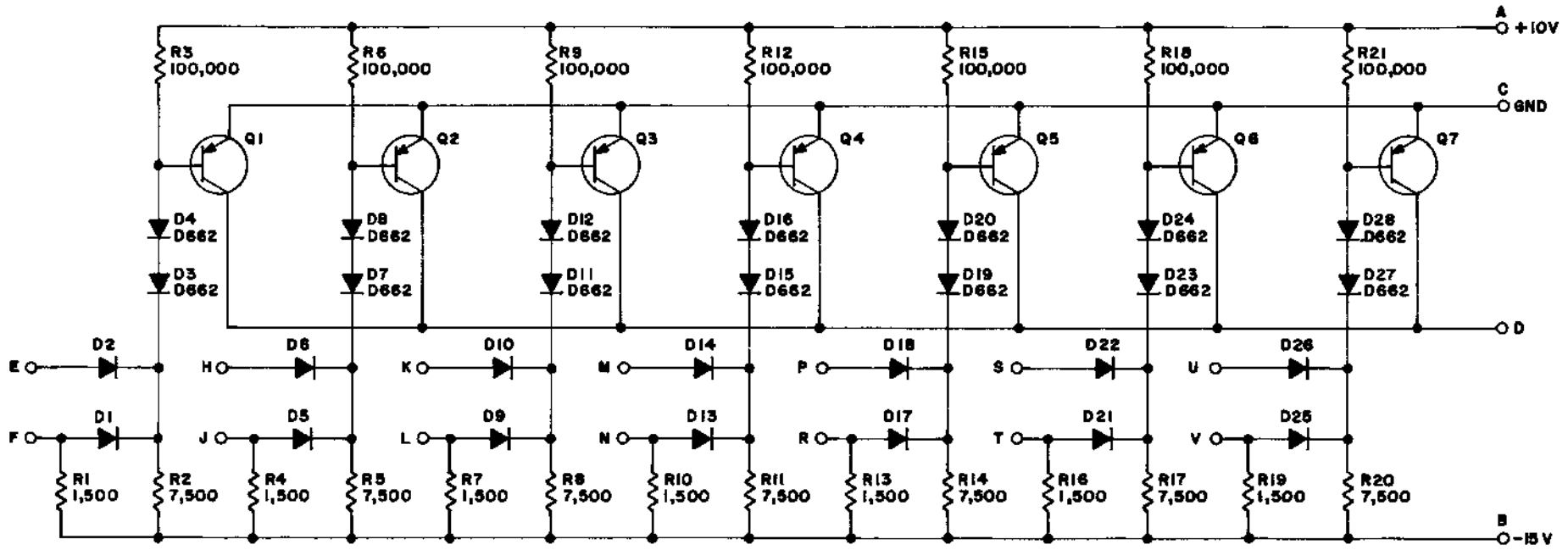
TRANSISTOR & DIODE CONVERSION CHART		DIGITAL		DIGITAL TO ANALOG CONVERTER	
MANUFACTURER	PART NO.	MANUFACTURER	PART NO.	MANUFACTURER	PART NO.
DEC	6554D	DEC	7474N	DEC	600
...

digital
EQUIPMENT CORPORATION
 11700 W. 13TH AVE., DENVER, CO 80233
 (303) 751-1370

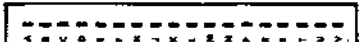
DIGITAL TO ANALOG CONVERTER
A615
 PART NO. A615-G-1
 REV. C

REV. NUMBER B142-0-1

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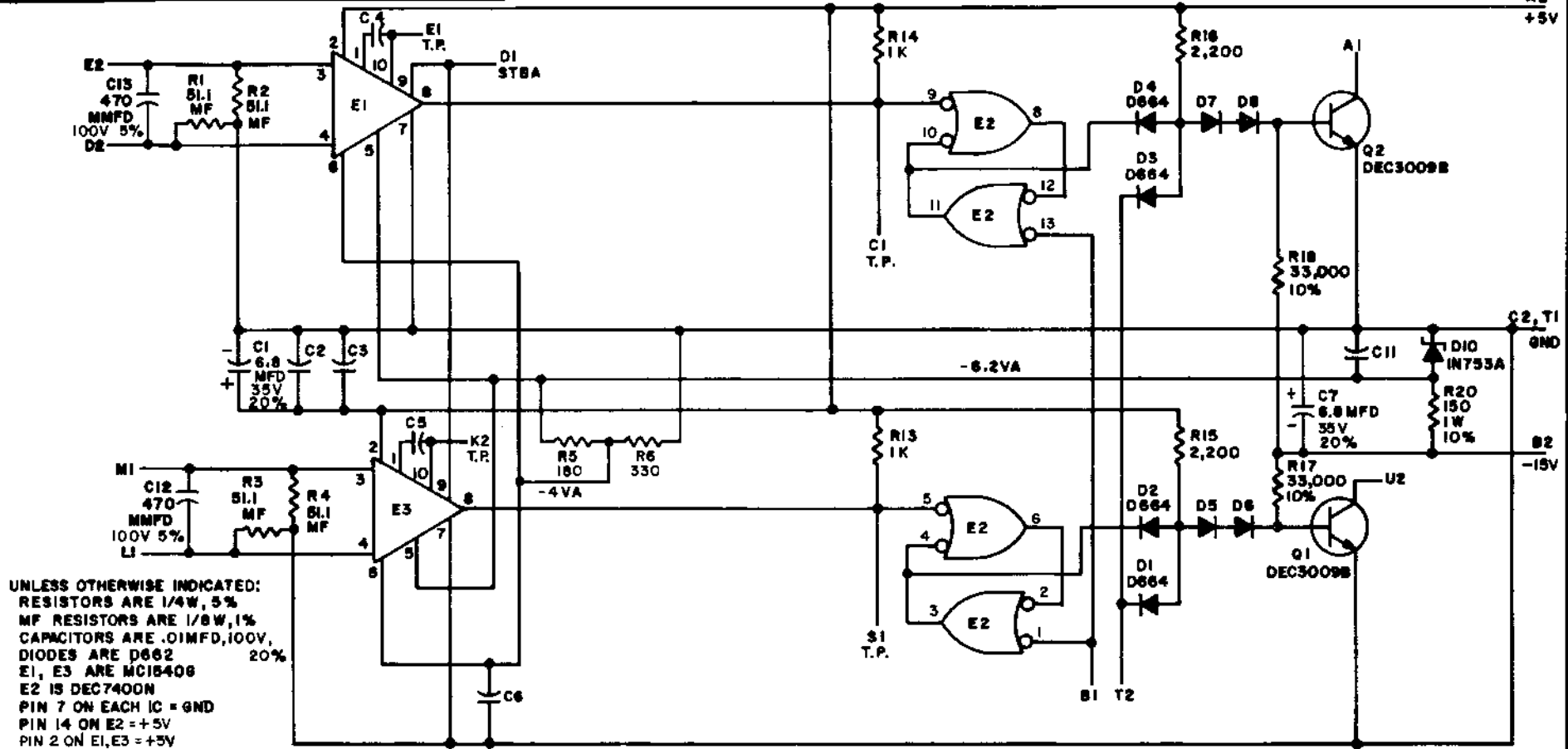
UNLESS OTHERWISE INDICATED:
 RESISTORS ARE 1/4W; 5%
 DIODES ARE D664
 TRANSISTORS ARE DEC3639-1B



REVISIONS CHK/CHG NO. REV.	DRAWN <i>M. Haller</i>	DATE 2-10-67	TRANSISTOR & DIODE CONVERSION CHART				 EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE DIODE GATE B142			
	CHK'D <i>R. Schuman</i>	DATE 2/14/67	DEC	EIA	DEC	EIA		SIZE B	CODE CS	NUMBER B142-0-1	REV.
	ENG <i>BCS</i>	DATE 7-1-67	DEC3639-1B	2N3639							
	PROD	DATE	D662	1N646							
			D664	1N3606							
PRINTED CIRCUIT REV.							A				

1-0-0208 B CS B
 NUMBER 3003 321
 KEY 39

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UNLESS OTHERWISE INDICATED:
 RESISTORS ARE 1/4W, 5%
 MF RESISTORS ARE 1/8W, 1%
 CAPACITORS ARE .01MFD, 100V,
 DIODES ARE D662 20%
 E1, E3 ARE MC15408
 E2 IS DEC7400N
 PIN 7 ON EACH IC = GND
 PIN 14 ON E2 = +5V
 PIN 2 ON E1, E3 = +5V

USE THE ETCH BOARD OF THE 8021

PARTS LIST IS A-PL-6020-0-0

REV.	CHK	CHG	NO	REV.
1	✓	✓	00001	G
2	✓	✓	00002	D
3	✓	✓	00003	E
4	✓	✓	00004	F
5	✓	✓	00005	H
6	✓	✓	00007	J

DRN <i>M. Waller</i>	DATE 7-18-67
CHK'D <i>R. Dwyer</i>	DATE 7/18/67
ENR <i>R. Dwyer</i>	DATE 8/16/67
PROD. 2	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3009B	2N3009		
D662	1N648		
D664	1N3608		
IN753A	SAME		

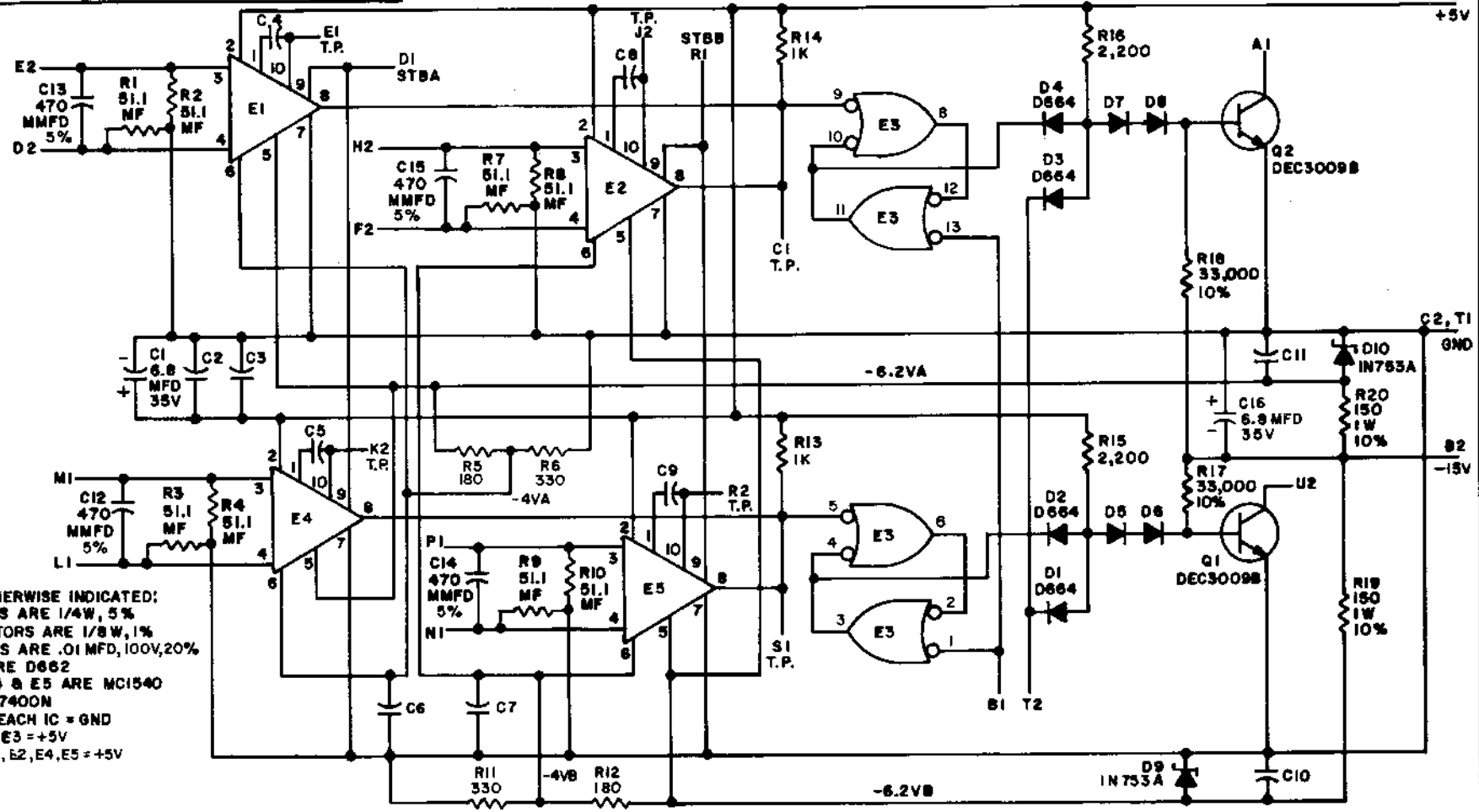
digital
 EQUIPMENT CORPORATION
 MAYNARD MASSACHUSETTS

TITLE SENSE AMP. G020			
SIZE B	CODE CS	NUMBER G020-0-1	REV. J
PRINTED CIRCUIT REV.			
DWT.	324	434	435

↓

REV	1-0-1	CS	B
NUMBER	6021-0-1	SIZE	CS

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UNLESS OTHERWISE INDICATED:
 RESISTORS ARE 1/4W, 5%
 MF RESISTORS ARE 1/8W, 1%
 CAPACITORS ARE .01MFD, 100V, 20%
 DIODES ARE D662
 E1, E2, E4 & E5 ARE MC1540
 E3 IS DEC7400N
 PIN 7 ON EACH IC = GND
 PIN 14 ON E3 = +5V
 PIN 2 ON E1, E2, E4, E5 = +5V

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

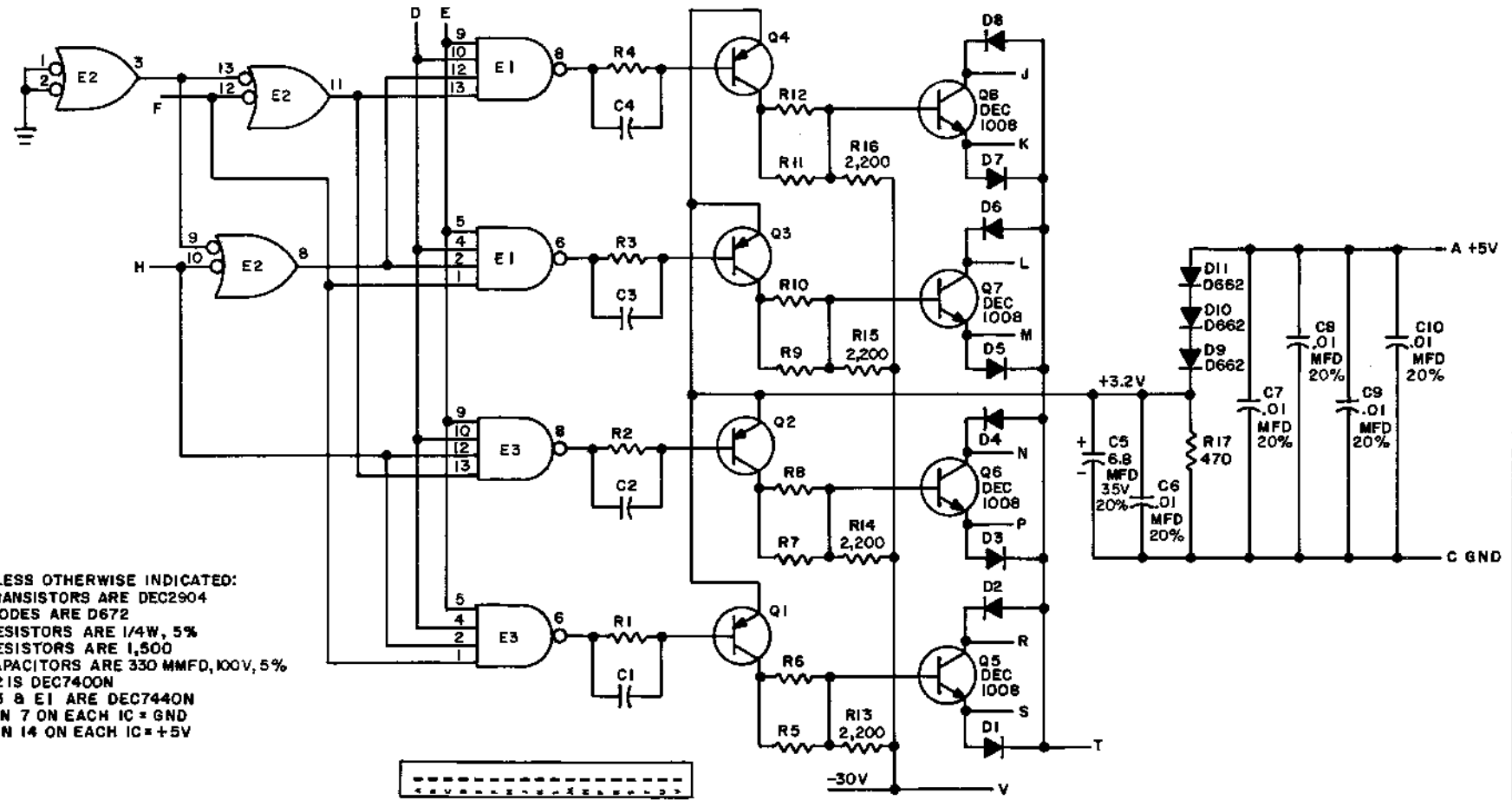
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	REV	CHK	CHG NO.	REV																					
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DEC	EIA	DEC	EIA																						
DEC3009B	2N3009																								
D662	IN448																								
D664	IN3006																								
IN753	SAME																								
PROD 2	DATE 4-11-67	DATE 4-11-67	EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	SIZE B	NUMBER 6021-0-1																				
DATE 4-11-67	DATE 4-11-67	DATE 4-11-67	DATE 4-11-67	DATE 4-11-67	DATE 4-11-67																				

DEC FORM NO. DRB 102

DISC 324 434435 PINK

REV. G
 NUMBER 6221-0-1
 SIZE CODE B 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



UNLESS OTHERWISE INDICATED:
 TRANSISTORS ARE DEC2904
 DIODES ARE D672
 RESISTORS ARE 1/4W, 5%
 RESISTORS ARE 1,500
 CAPACITORS ARE 330 MMFD, 100V, 5%
 E2 IS DEC7400N
 E3 & E1 ARE DEC7440N
 PIN 7 ON EACH IC = GND
 PIN 14 ON EACH IC = +5V

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

REV. NO.	CHG. NO.	REV.
1	A	6491
2	B	8508
3	C	00001
4	D	00004

DRN. *M. Waller* DATE *4-3-67*
 CHK'D. *[Signature]* DATE *5/5/67*
 ENG. *[Signature]* DATE *5/5/67*
 PROD. *[Signature]* DATE

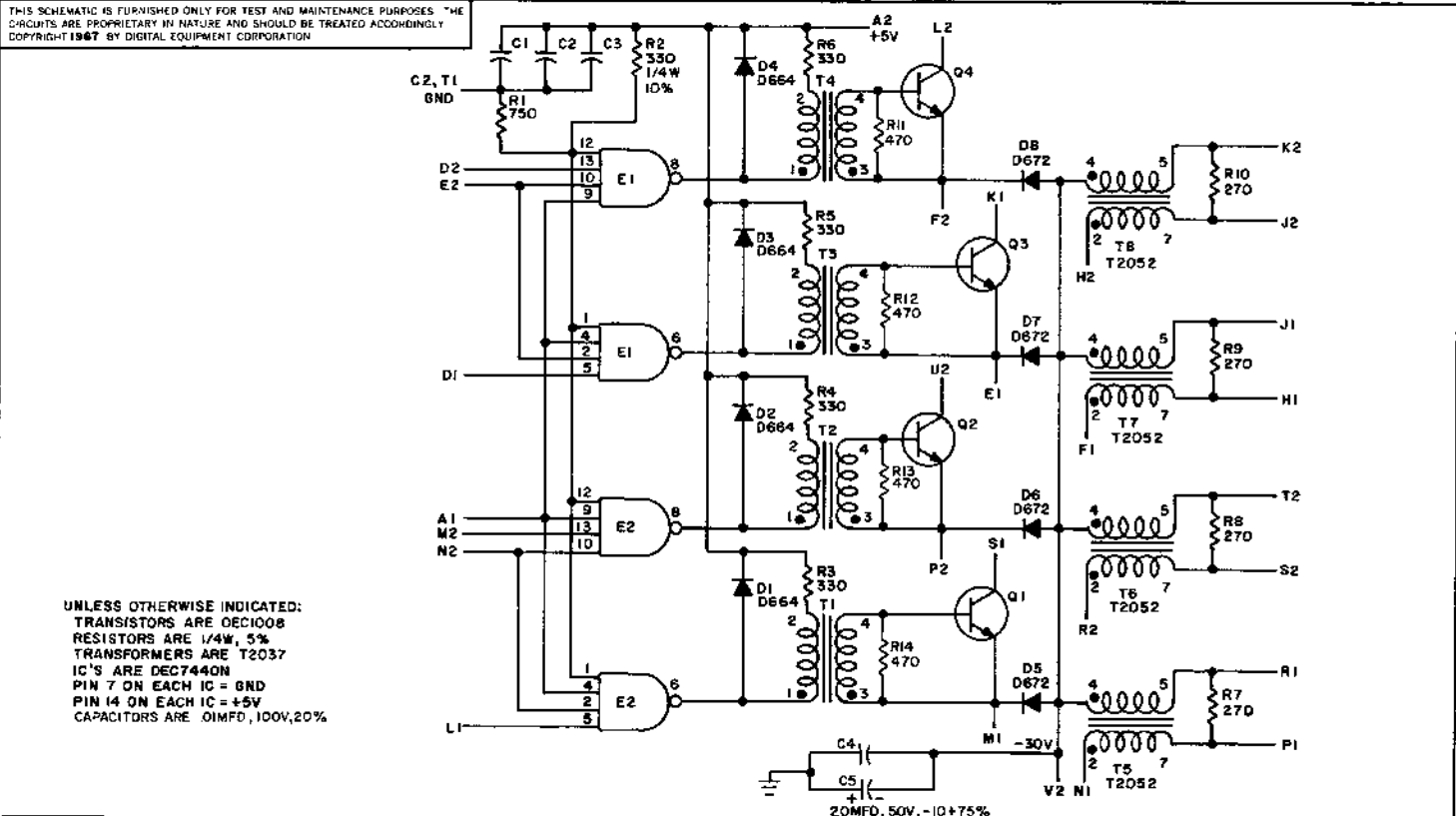
TRANSISTOR & DIODE CONVERSION CHART			
DEC		EIA	
DEC100B	MM100B		
DEC2904	2N2904		
D662	1N648		
D672	1N3653		

digital
 EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

TITLE
MEMORY SELECTOR G221
 SIZE B CODE CS NUMBER 6221-0-1 REV. D
 PRINTED CIRCUIT REV. B

REV F
 NUMBER G228-0-1
 CODE CS
 SIZE B

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UNLESS OTHERWISE INDICATED:
 TRANSISTORS ARE DEC1008
 RESISTORS ARE 1/4W, 5%
 TRANSFORMERS ARE T2052
 IC'S ARE DEC7440N
 PIN 7 ON EACH IC = GND
 PIN 14 ON EACH IC = +5V
 CAPACITORS ARE .01MFD, 100V, 20%

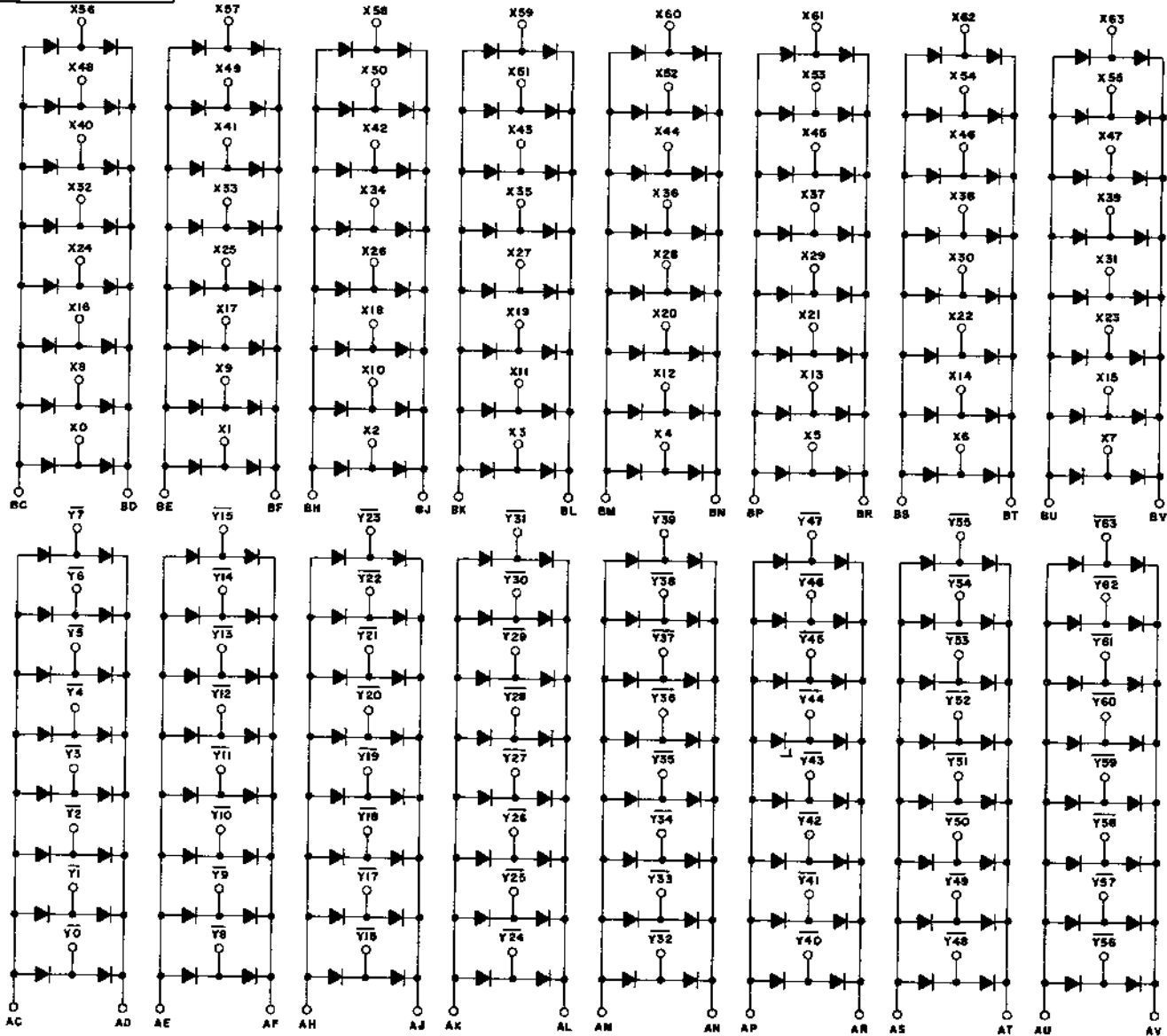
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2	1	W	7/1/67
3	1	W	7/1/67
4	1	W	7/1/67
5	1	W	7/1/67

DRN	DATE	TRANSISTOR & DIODE CONVERSION CHART			
CHK'D	DATE	DEC	EIA	DEC	EIA
ENG	DATE	DEC1008	MM1008		
PROD	DATE	D664	IN3906		
		D672	IN3653		

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

digital
 EQUIPMENT CORPORATION
 MAYNARD MASSACHUSETTS

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UNLESS OTHERWISE INDICATED:
 DIODES ARE D672
 USE D671 AS SUBSTITUTE
 R1 IS A 330Ω THERMISTOR
 25% #AD905P-8

REVISIONS	DATE	BY	REV.

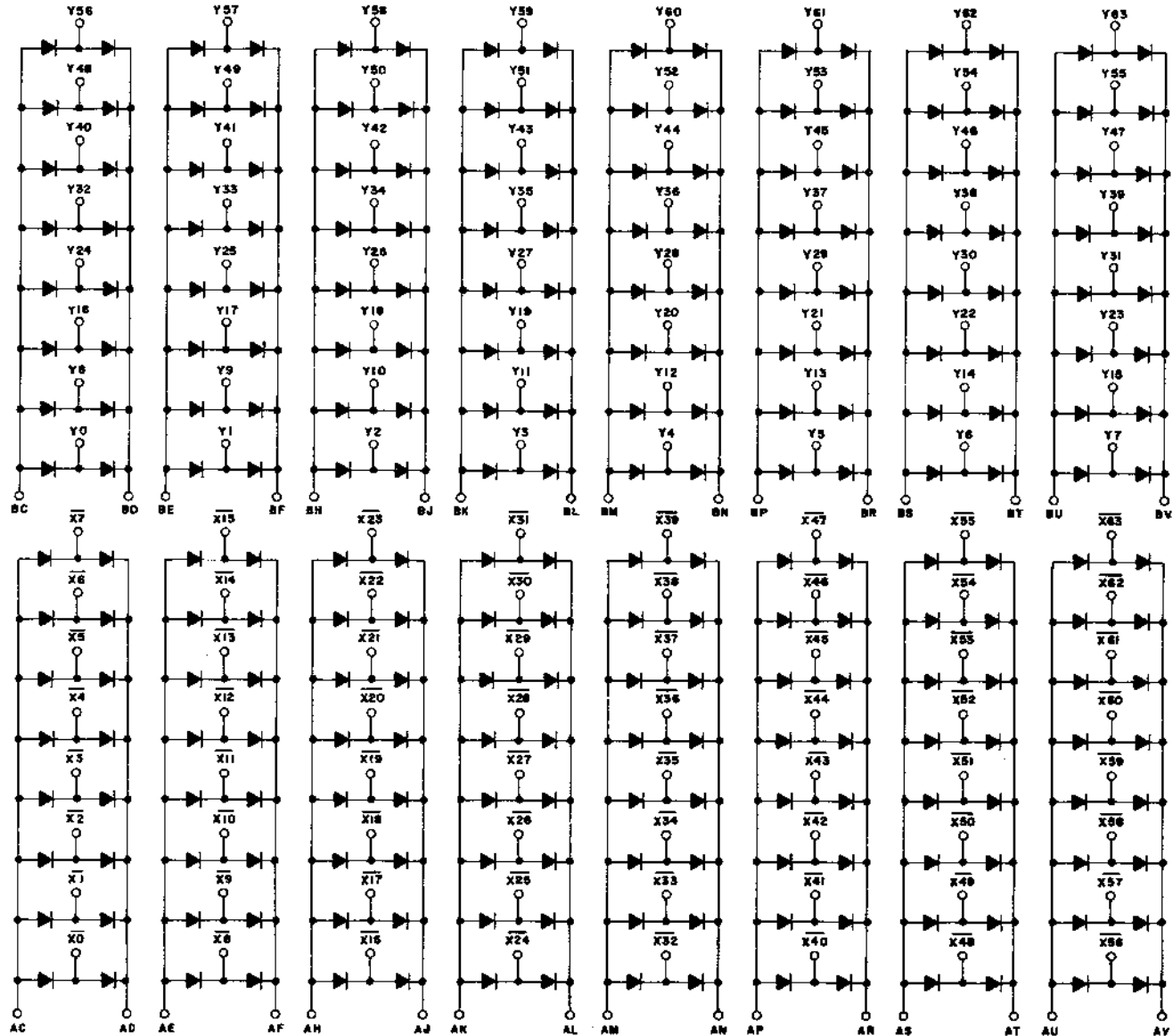
DRN	DATE
CHKD	DATE
DATE	DATE
PROC.	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D672	1N5653		

digital		TITLE	
EQUIPMENT CORPORATION		A-DIODE BOARD G610	
SIZE	CODE	NUMBER	REV.
C	CS	G610-0-1	B
PRINTED CIRCUIT REV.			A/B

SEE PAGE C. CS 6610-0-1 NUMBER 6

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UNLESS OTHERWISE INDICATED:
DIODES ARE D672
USE D671 AS SUBSTITUTE

REVISIONS	CHK	CHK NO	REV.

DATE	12-28-68
CHKD	
DATE	11/16/68
DATE	11/15/68
DATE	

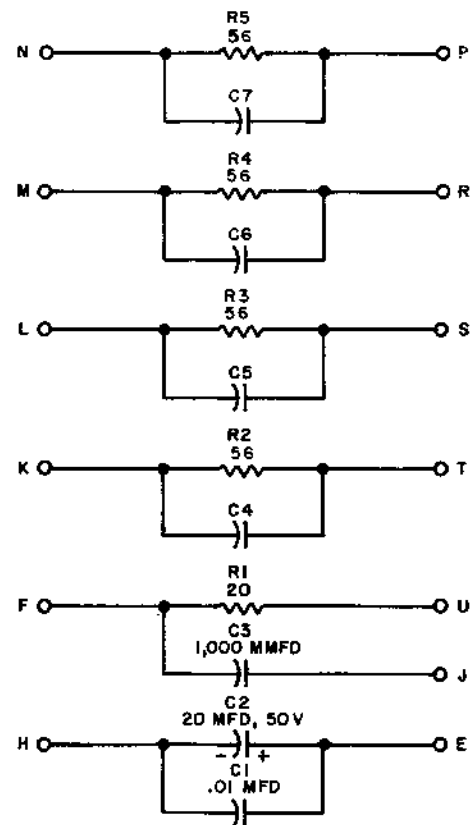
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DEC	EMA	DEC	EIA
D672	1N5603		

digital
EQUIPMENT CORPORATION
BOSTON, MASSACHUSETTS

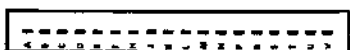
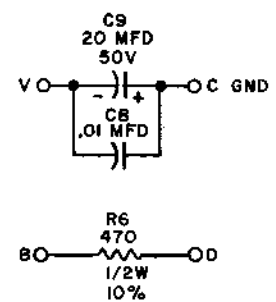
TITLE			
B-DIODE BOARD G611			
SIZE	CODE	NUMBER	REV.
C	CS	G611-0-1	A
PRINTED CIRCUIT REV.			

REV D
 NUMBER 6624-0-1
 CS B
 SIZE 300

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



REV. NO.	CHK	CHG NO.	REV.
1		6442	A
2		6581	B
3		6709	C
4		06001	D

DRN <i>M. Haller</i>	DATE 5-24-67
CHK'D	DATE
ENG	DATE
PROD.	DATE

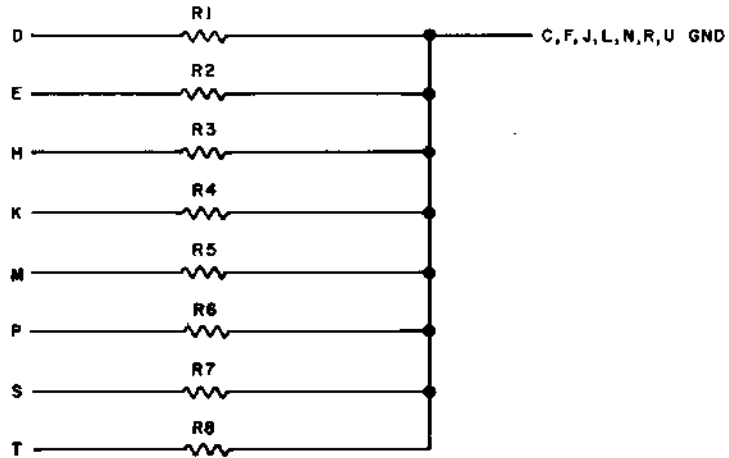
TRANSISTOR & DIODE CONVERSION CHART			
DEC		EIA	

digital
 EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

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

REV. NUMBER 6700-YA-1 SIZE CODE 8 CS 200 3215

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

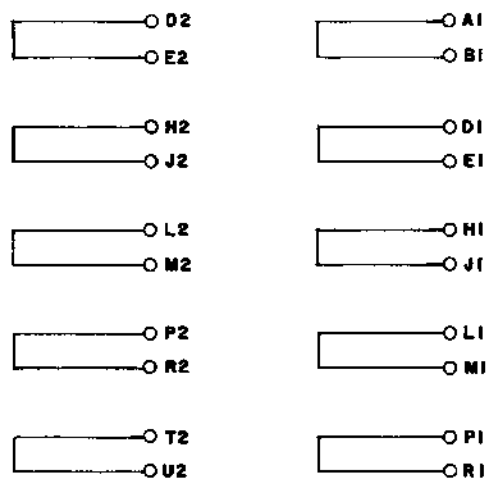
USE THE G700 ETCH

REVISIONS CHG NO REV _____ _____ _____	DRN. <i>J. Cooper</i> DATE <i>5/4/70</i>	TRANSISTOR & DIODE CONVERSION CHART				 digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE 100Ω TERMINATOR G700-YA			
	CHK'D <i>M. Waller</i> DATE <i>5/4/70</i>	DEC EIA DEC EIA	SIZE B	CODE CS	NUMBER G700-YA-1		REV.			
	ENR <i>J. Cooper</i> DATE <i>5/22/70</i>	_____ _____ _____ _____	PRINTED CIRCUIT REV.	B	_____ _____ _____ _____		_____			
	PRD <i>J. Cooper</i> DATE <i>10/5/70</i>	_____ _____ _____ _____	_____ _____ _____ _____	_____ _____ _____ _____	_____ _____ _____ _____		_____			

↓

REV	A	NUMBER	6718-0-1	CS	B	SIZE
-----	---	--------	----------	----	---	------

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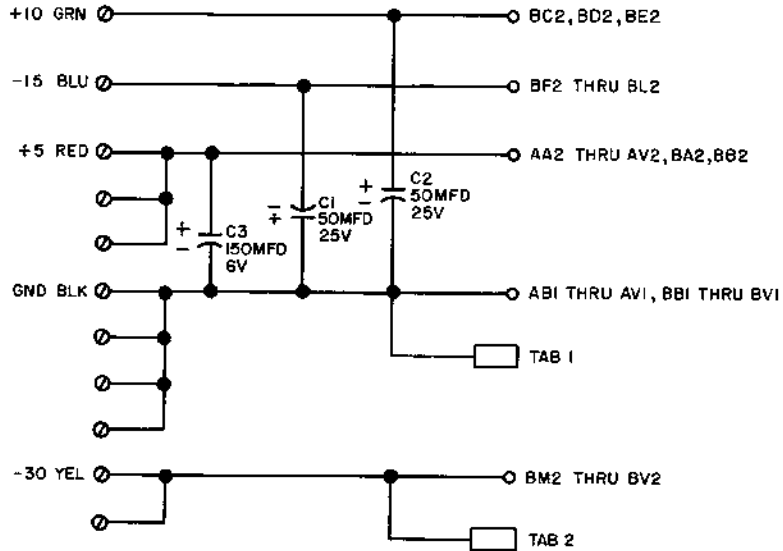


PARTS LIST IS A-PL-6718-0-0

REVISIONS CHK (CHK NO.) REV. A 00001 A	DRN <i>M. Keller</i>	DATE 1-10-69	TRANSISTOR & DIODE CONVERSION CHART				 EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE TIMING JUMPER G718			
	CHK'D <i>M. Keller</i>	DATE 1-19-69	DEC	EIA	DEC	EIA		SIZE B	CODE CS	NUMBER G718-0-1	REV A
	ENG <i>R. J. ...</i>	DATE 1-23-69						PRINTED CIRCUIT REV. A			
	PROD.	DATE									

REV. NUMBER 1-0-089 B CS 312

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UNLESS OTHERWISE INDICATED:
 ⓪ ARE EYELETS
 TABS ARE DEC A-MD-7407196

REVISIONS
 CHK CHG NO. REV.

DRN: *E. BUTLER* DATE: *4/14/69*
 CHK'D: *M. M. M. M.* DATE: *4-24-69*
 ENG: *L. Dale* DATE: *5/13/69*
 PROD. DATE:

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital
 EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

TITLE: POWER CONNECTOR G780
 SIZE: B CODE: CS NUMBER: G780-0-1 REV. A
 PRINTED CIRCUIT REV. A

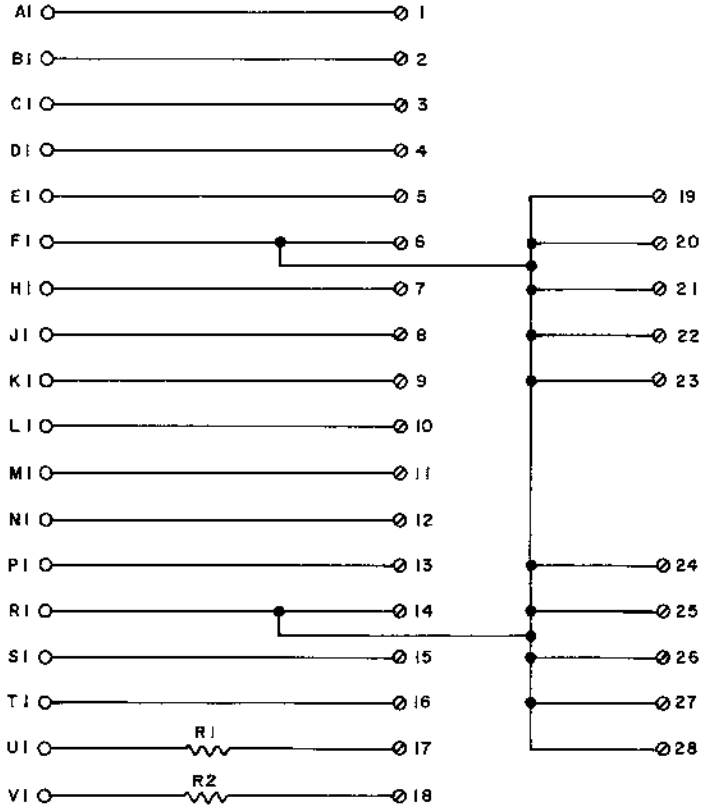
REV. NUMBER 1-0-8820 CS B SIZE CODE 3002

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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

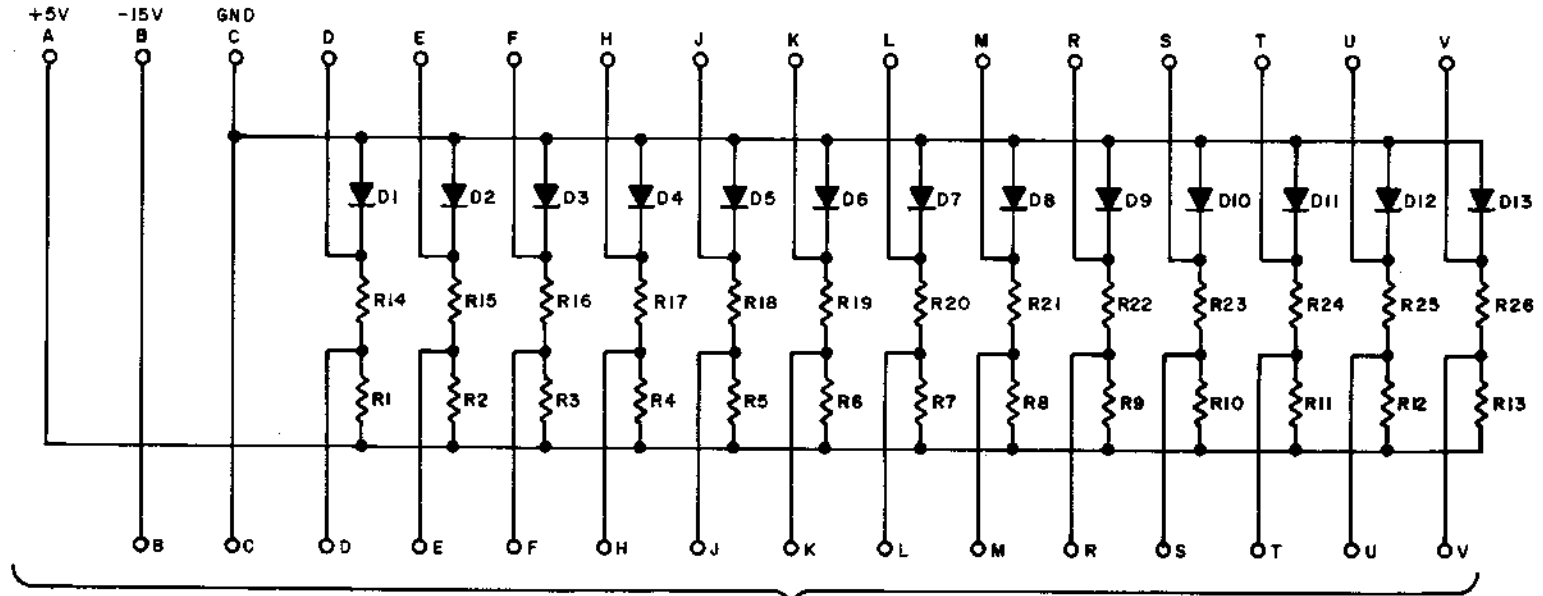


REVISIONS CHK CHG NO. | REV.	DRN. <i>M. Keller</i> DATE <i>4-14-68</i>	TRANSISTOR & DIODE CONVERSION CHART				digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE CABLE CONNECTOR G783			
	CHK'D <i>M. McLaughlin</i> DATE <i>4-16-69</i>	DEC	EIA	DEC	EIA		SIZE B	CODE CS	NUMBER G783-0-1	REV
	END <i>L. Hale</i> DATE <i>5/15/69</i>									
	PRD.									
DEC FORM NO. DRB 102						PRINTED CIRCUIT REV. A				

5 DIST. 324,434,435³ PINK

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

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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.
	A 100001
	B 100002

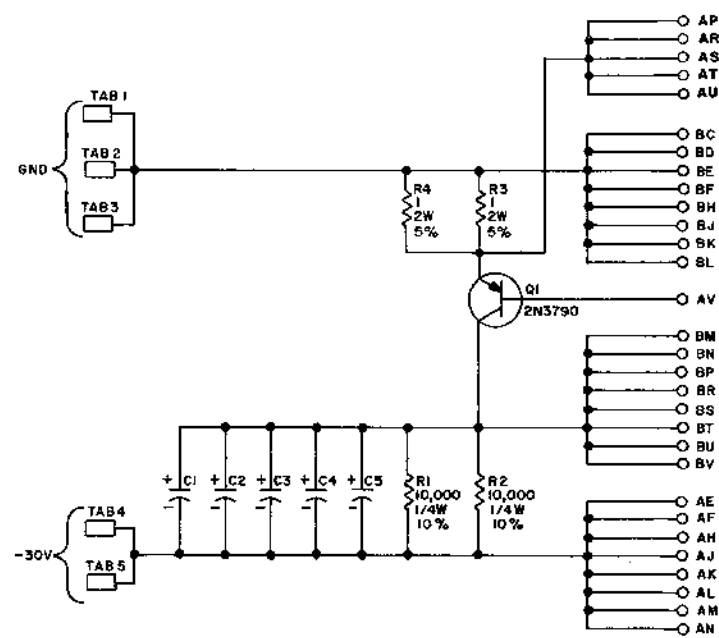
DRN	DATE
Dr. Miller	1-9-68
CHK'D	DATE
P. Sullivan	1/15/68
ENG	DATE
Sogge	1/15/68
PROD.	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D664	1N3606		

digital	TITLE		
	PDP-8I SWITCH CONNECTOR G793		
EQUIPMENT CORPORATION	SIZE	CODE	NUMBER
	B	CS	G793-0-1
MAYNARD, MASSACHUSETTS	PRINTED CIRCUIT REV.	B	

H 6805-0-1 B CS NUMBER

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UNLESS OTHERWISE INDICATED:
 CAPACITORS ARE 20MFD 50V, -10+75%
 TABS ARE 250 SERIES FASTON TABS TYPE 80465-2 (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

REV	DATE	BY	CHK'D	DATE
1	7072			
2	10002			

REV	DATE	BY	CHK'D	DATE
1	7072			
2	10002			

TRANSISTOR & DIODE CONVERSION CHART			
DEC	FIA	DEC	FIA
2N3790	SAME		

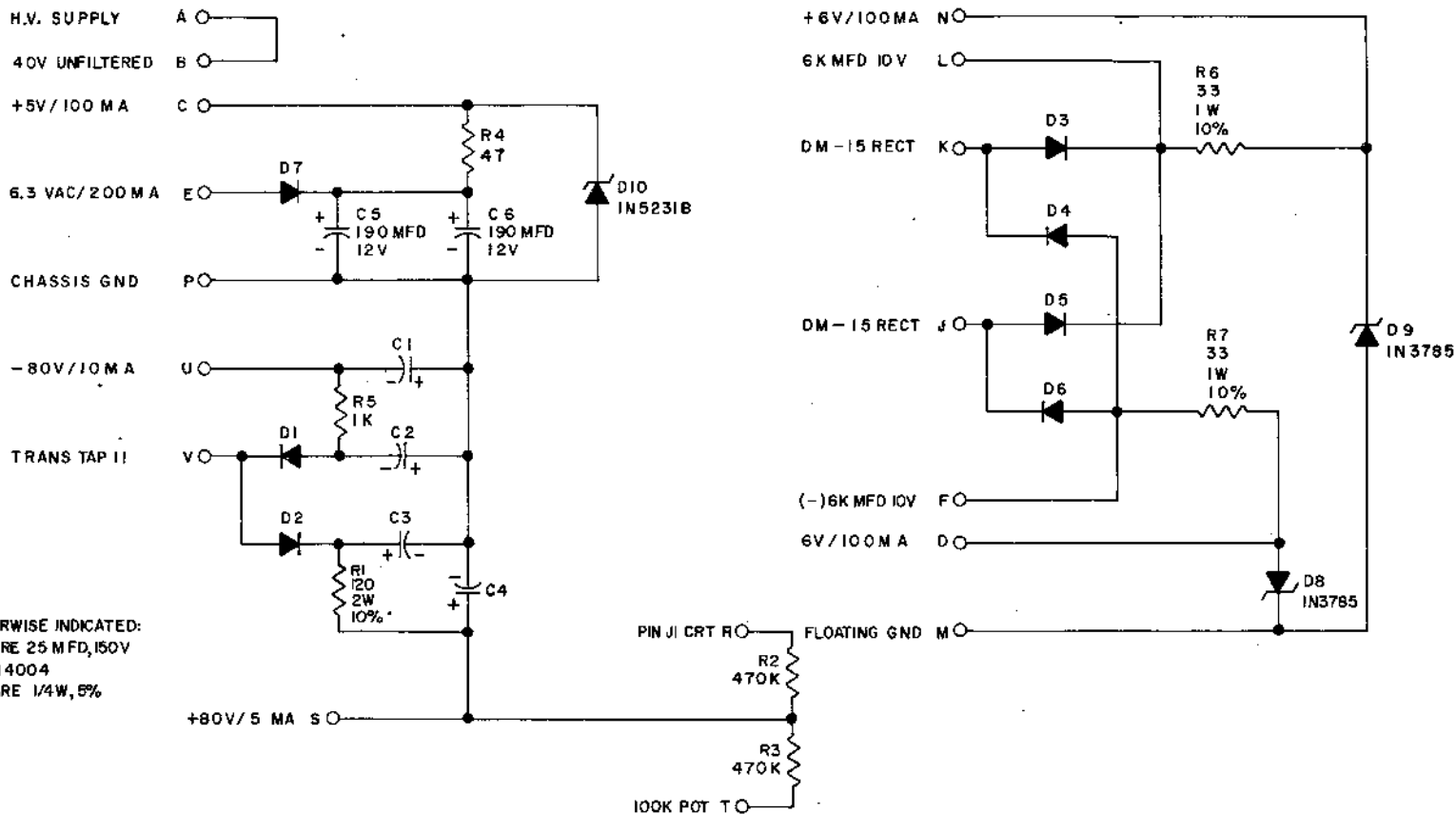
digital
 EQUIPMENT CORPORATION
 MAYFORD, MASSACHUSETTS

TITLE: **NEGATIVE REGULATOR G805**
 SIZE: B CS NUMBER: G805-0-1 REV: H
 PRINTED CIRCUIT REV: E F

DEC FORM NO. 102

5 PWA DIST 2291434 285³

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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	DATE
<i>R. P. ...</i>	4-25-69
CHK'D	DATE
<i>R. P. ...</i>	6-2-69
ENG.	DATE
<i>R. P. ...</i>	7-17-69
PROD.	DATE

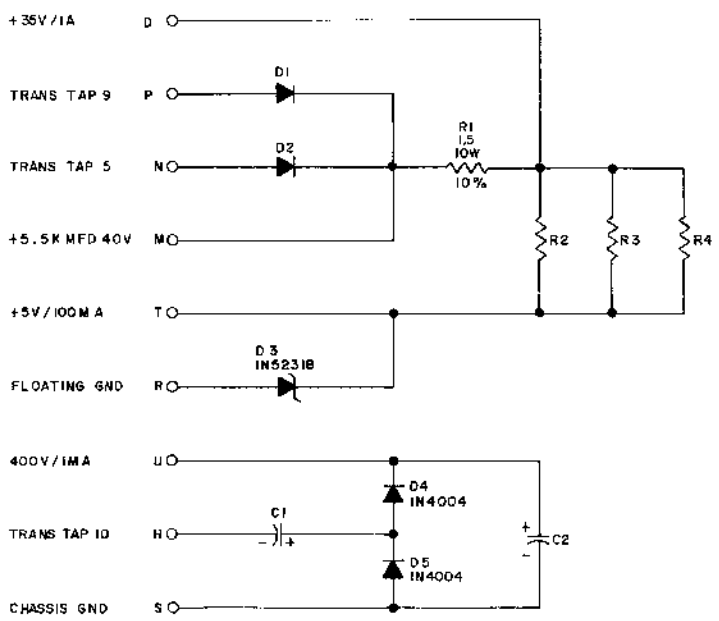
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
IN5231B	SAME		
IN3785	SAME		
IN4004	SAME		

digital
 EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

TITLE				POWER SUPPLY BI			
				G817			
SIZE	CODE	NUMBER	REV.				
B	CS	G817-0-1	B				
PRINTED CIRCUIT REV							A

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

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

REV. NO.	CHG. NO.	REV.
0001	C	
0002	D	

DRN	DATE
<i>[Signature]</i>	9-28-68
CHK'D	DATE
<i>[Signature]</i>	1-2-69
ENG.	DATE
<i>[Signature]</i>	2-2-69
PROD.	DATE
<i>[Signature]</i>	1-2-69

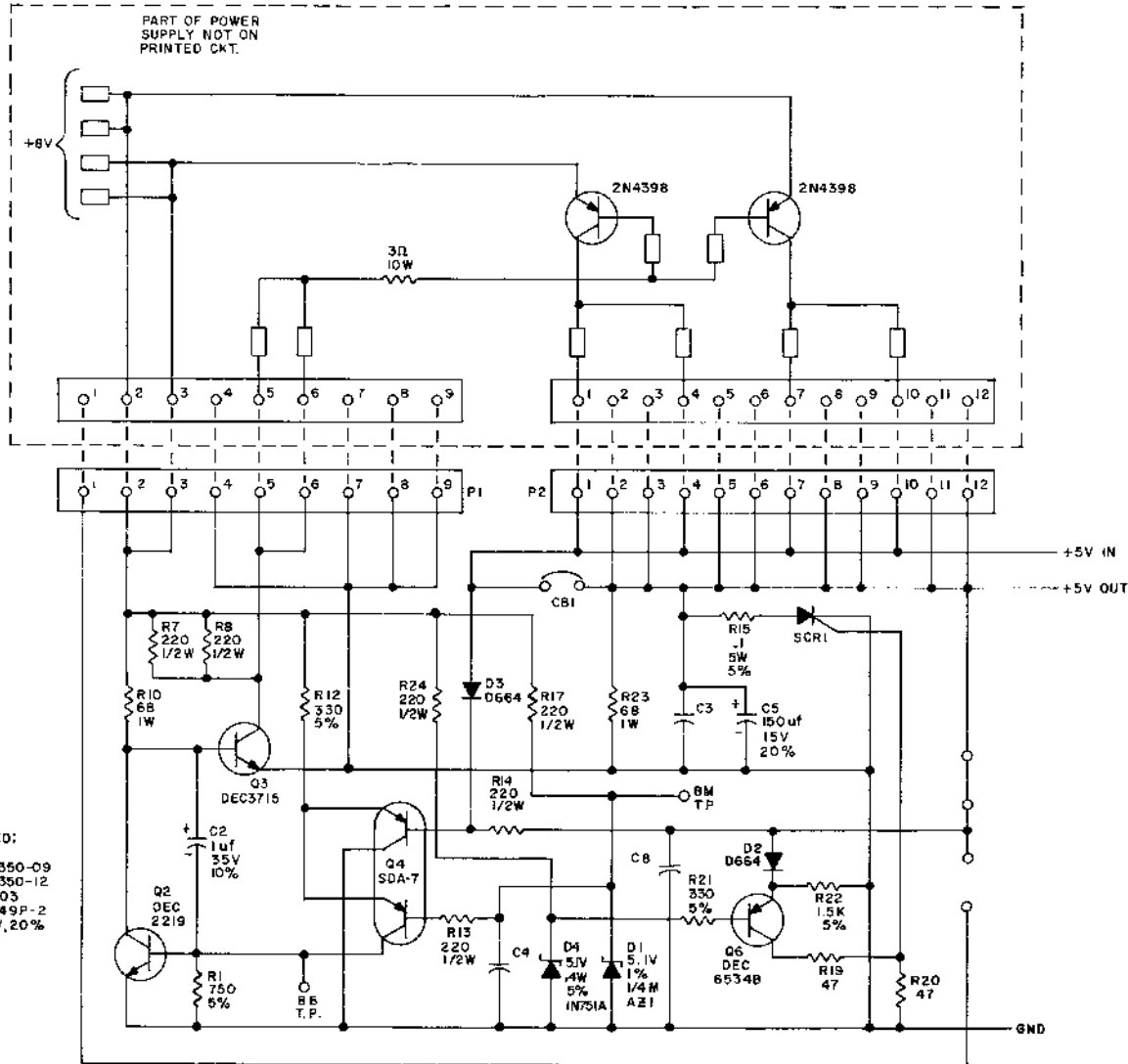
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
MR1033B	SAME		
IN5231B	SAME		
IN4004	SAME		

digital
 EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

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

DEC FORM NO. 001
 BRB 1G2

THIS SCHEMATIC IS INTENDED ONLY FOR TEST AND MAINTENANCE PERSONNEL USE. THE CIRCUITS ARE PROPRIETARY IN NATURE AND SHOULD BE TRACED ACCORDINGLY. COPYRIGHT 1969 BY DIGITAL EQUIPMENT CORPORATION.



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 MCR 649P-2
 CAPACITORS ARE .01µf, 100V, 20%

REV	DATE	BY	CHK'D
1	8-5-69	D. Dellen	
2	7-7-69	J. Young	
3		D. Dale	
4			

DEC FORM NO.

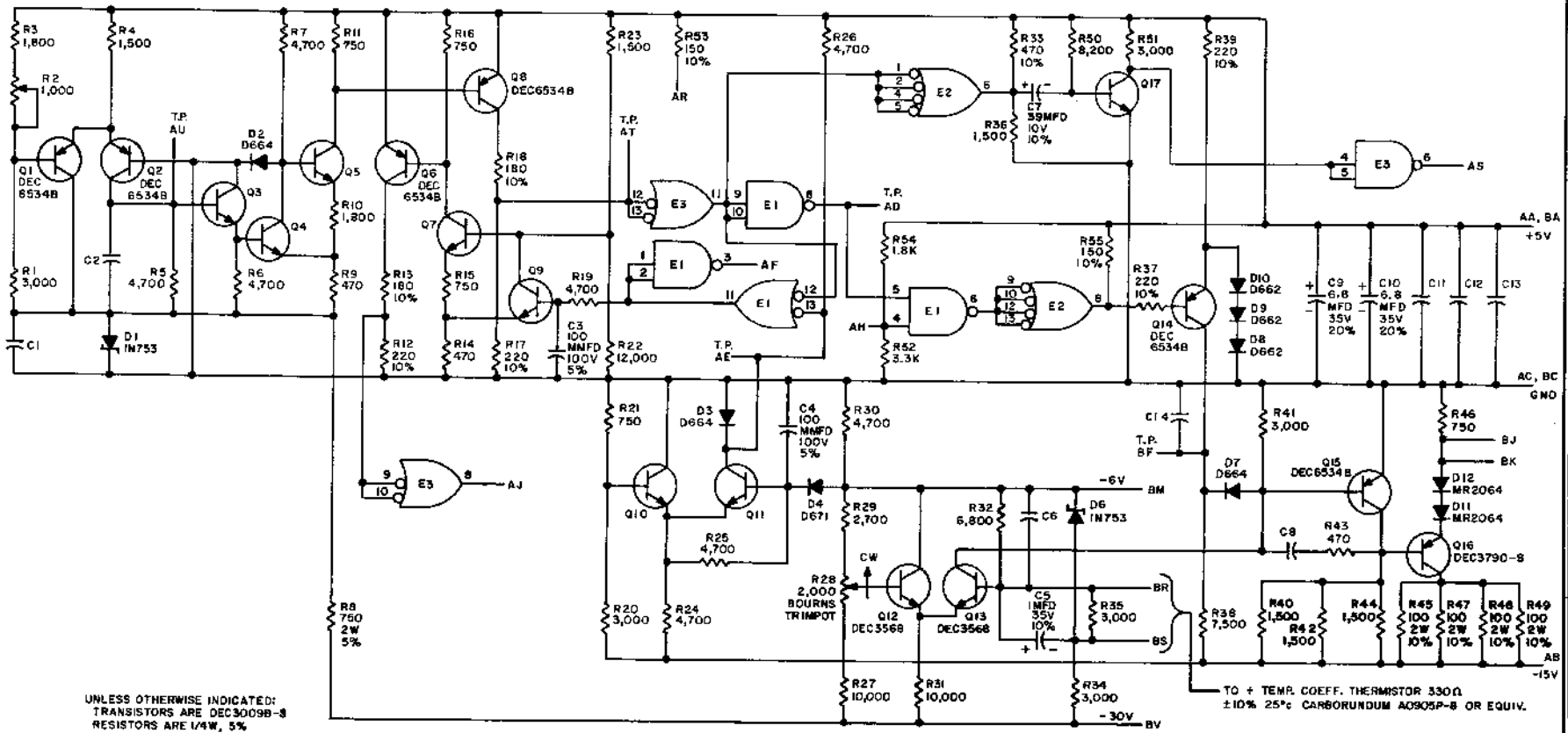
ORIG	DATE	BY	CHK'D
DEC	8-5-69	D. Dellen	
EIA	7-7-69	J. Young	
DEC		D. Dale	
EIA			

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D664	1N3606	SDA-7	SAME
5.1V 1/4W AZ1	NONE		
DEC6534B	MP56534		
DEC2219	2N2219		
DEC3715	NONE		

digital		TITLE	
EQUIPMENT CORPORATION		+5 VOLT REGULATOR G824	
SIZE	CODE	NUMBER	REV.
C	CS	G824-0-1	C
MAYNARD, MASSACHUSETTS			PRINTED CIRCUIT REV.
			B

REV. NUMBER

THIS SCHEMATIC IS FOR INFORMATION AND MAINTENANCE PURPOSES. THE CIRCUITS ARE TO BE REPRODUCED AND SHOWN TO BE TREATED ACCORDINGLY. COPYRIGHT 1967 BY DIGITAL EQUIPMENT CORPORATION.



UNLESS OTHERWISE INDICATED:
 TRANSISTORS ARE DEC3009B-8
 RESISTORS ARE 1/4W, 5%
 CAPACITORS ARE .01 MFD
 E1 & E3 ARE DEC7400N
 E2 IS DEC7440N
 PIN 7 ON EACH IC = GND
 PIN 14 ON EACH IC = +5V

PARTS LIST A-PL-6826-0-0

REV. 1
 NUMBER
 6826-0-1
 C

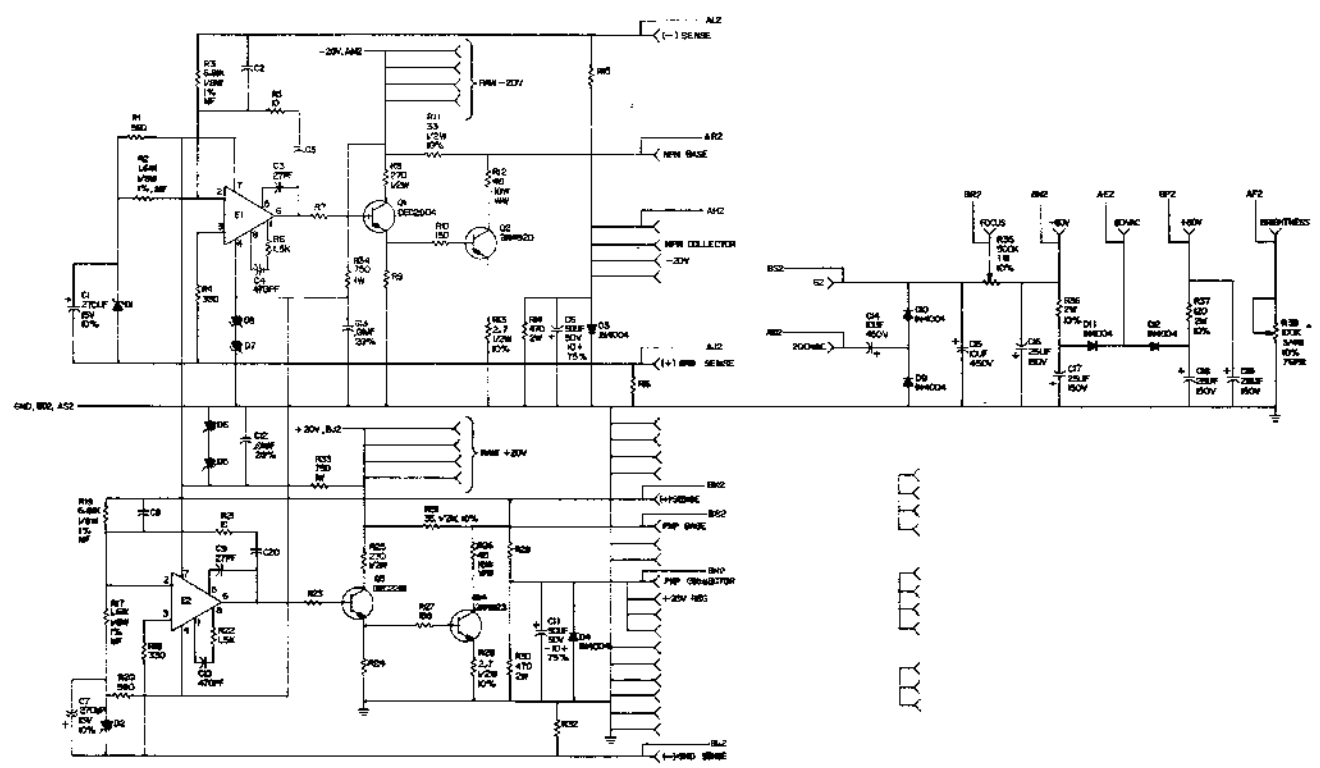
REVISIONS	DATE	BY	CHK	APP'D
1	10/10/67	W		
2	10/10/67	W		
3	10/10/67	W		
4	10/10/67	W		

DRN
 DATE 10/10/67
 CHECKED
 DATE 10/10/67
 PROC. DATE 10/10/67

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3009B	2N3009	D664	1N360B
DEC3098	2N3098	D671	1N365B
DEC6534B	MP6534	1N753	SAME
DEC3790	2N3790	MR2064	1N4001

digital EQUIPMENT CORPORATION
 TITLE: REGULATOR CONTROL G826
 SIZE: C CODE: CS NUMBER: 6826-0-1 REV: L
 PRINTED CIRCUIT REV: K

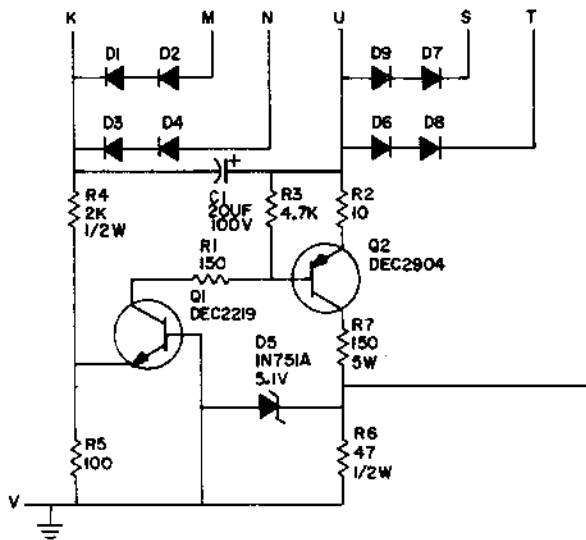
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UNLESS OTHERWISE INDICATED:
 RESISTORS ARE 1/4W, 5%
 DIODES ARE 1A/75V, 50V
 CAPACITORS ARE 100PPM, 50V, 5%
 U1, U2 ARE DEL703C
 Y - EYELETS

REV. NUMBER 6838-0-1 SIZE CODE B CS

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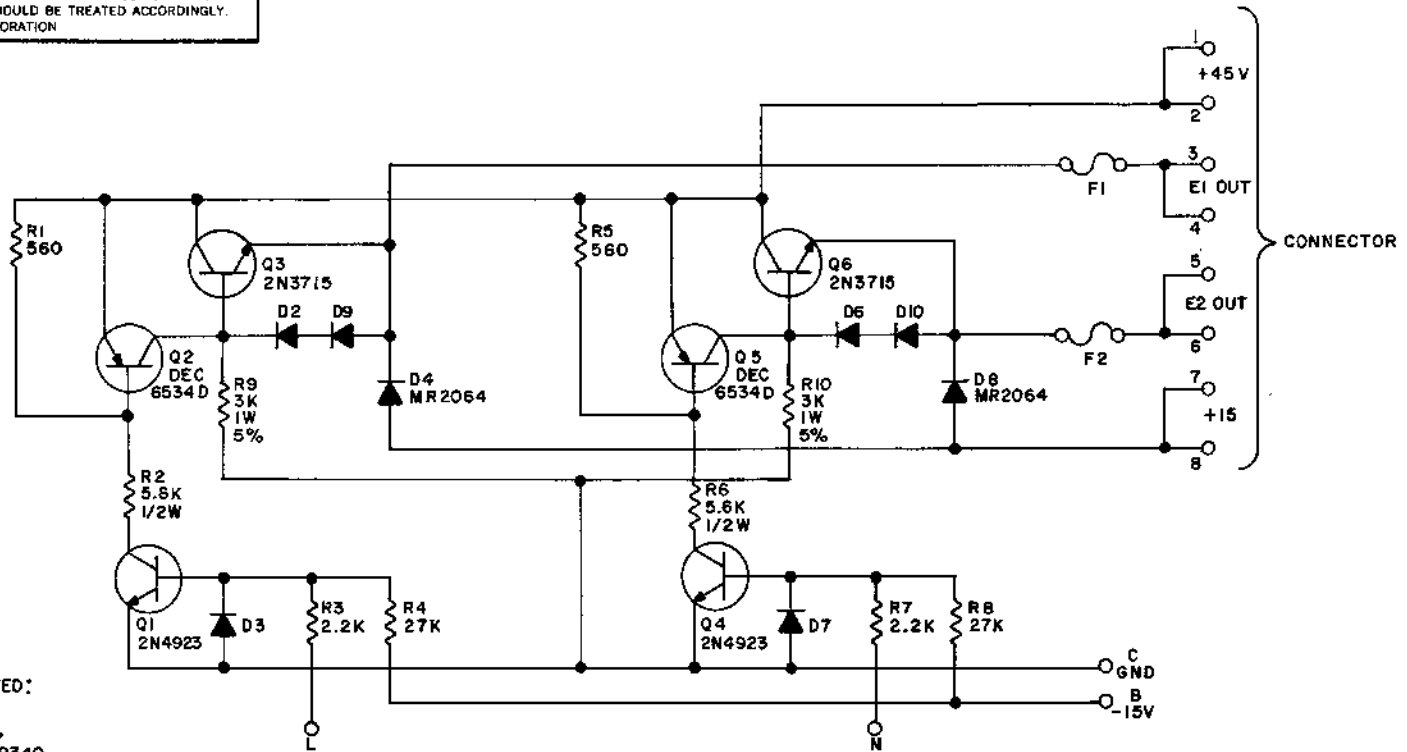


UNLESS OTHERWISE INDICATED:
 RESISTORS = 1/4W, 5%
 DIODES = IN4004

REVISIONS CHK CHG NO REV.	DRN. <i>NANDY 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>Quincy</i> DATE <i>23 DEC 70</i>	DEC	EIA	DEC	EIA		SIZE B	CODE CS	NUMBER
	ENG <i>37 elua</i> DATE <i>2 29 71</i>	IN4004	SAME	IN751A	SAME		G838-0-1		
	PROD. DATE	DEC2904	2N1132	DEC2219	2N2219		PRINTED CIRCUIT REV.	A	

PINK BLUE

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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	NG	REV.
	00002	A		
	00003			

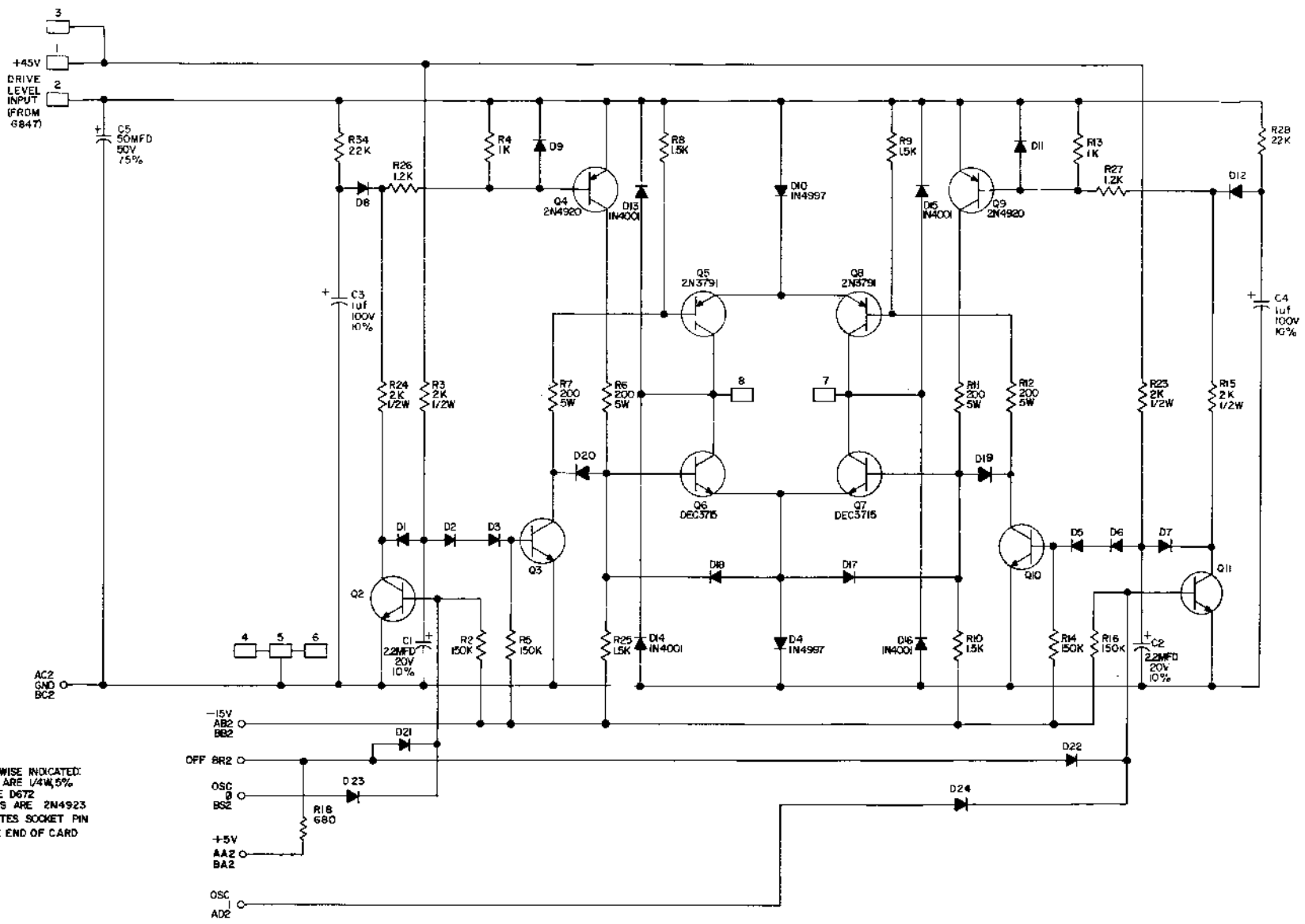
DRN.	DATE
<i>S. Blomquist</i>	2-17-69
CHK'D	DATE
<i>J. A. Adsett</i>	2/17/69
ENG.	DATE
<i>C. Lutting</i>	2-17-70
PROD.	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC		EIA	
D672	IN3653		
MR2064	IN4001		
2N3715	NONE		
2N4923	NONE		
DEC6534B	MPS6534		

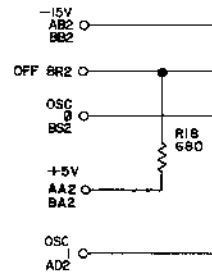
digital
 EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

TITLE				DUAL MOTOR VOLTAGE CONTROL G847			
SIZE	CODE	NUMBER	REV.				
B	CS	G847-0-1	A				
PRINTED CIRCUIT REV.			C				

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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



REV.	CHK	DATE	NO.	REV.
1	00001	A		
2	00002	B		
3	00003	C		
4	00004	D		
5	00005	E		
6	00006	F		

Q/R	DATE	TRANSISTOR & DIODE CONVERSION CHART			
		DEC	EIA	DEC	EIA
D672	12-7-68	IN4653	2N4920	SAME	
IN4001	12-7-68	SAME	2N4923	SAME	
IN4997	12-7-68	SAME	MPS6633	SAME	
DEC3715	12-7-68	2N3715	DEC654D	MPS6534	
2N379		SAME			

digital MOTOR CONTROL G848

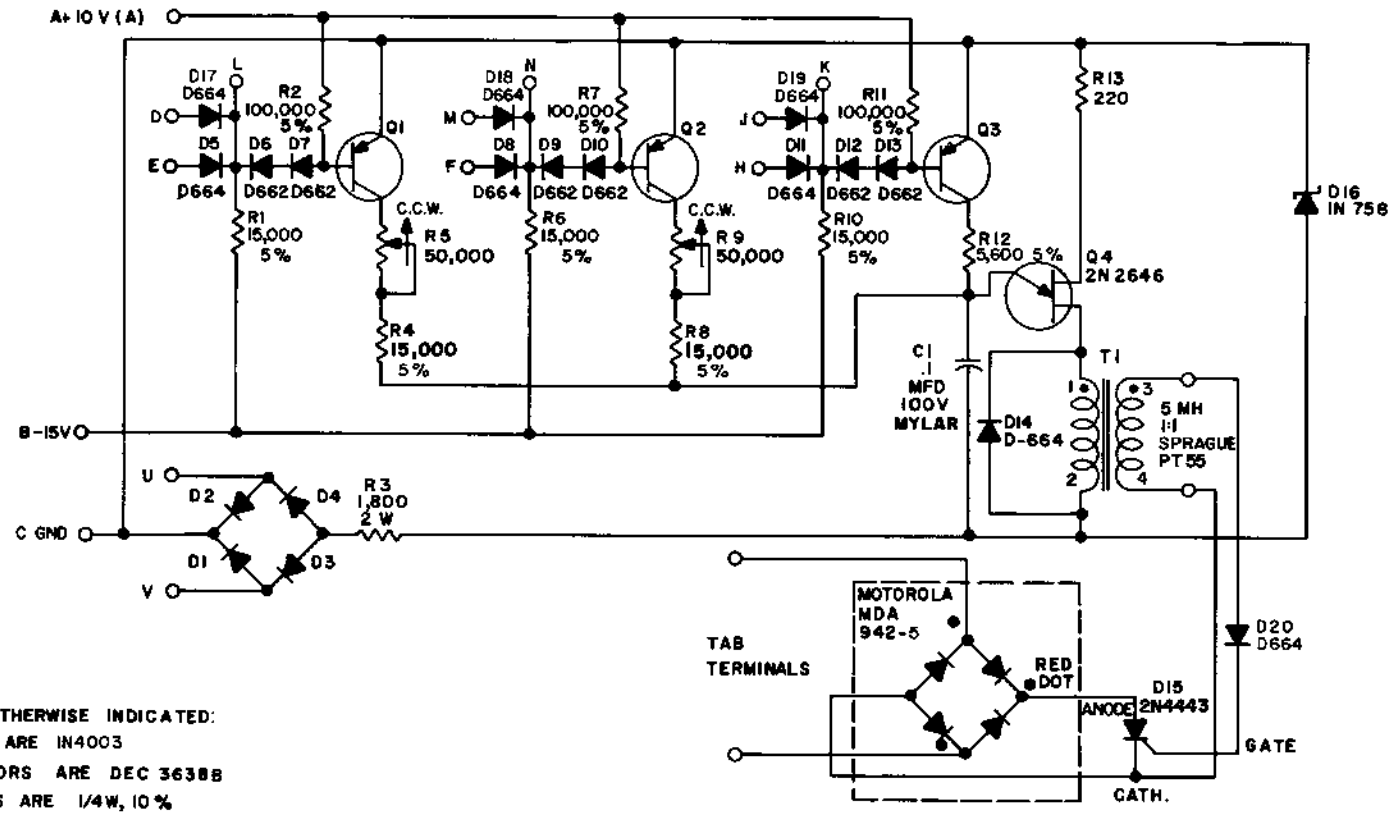
EQUIPMENT CORPORATION

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

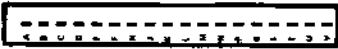
PRINTED CIRCUIT REV L

REV. F
NUMBER G848-0-1
EQUIPMENT CORPORATION

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UNLESS OTHERWISE INDICATED:
 DIODES ARE IN4003
 TRANSISTORS ARE DEC 36388
 RESISTORS ARE 1/4W, 10%
 R5 & R9 ARE #275P



REV	CHG	NO	REV
1	DRM	5286	3
2	REV	5368	D
3	REV	5420	E
4	REV	5509	F
5	REV	5588	G
6	REV	5585	K
7	REV	5469	L
8	REV	5518	M
9	REV	00001	P

DRN.	I. HAHN	DATE	5-3-65
CHK'D	R. SILVERMAN	DATE	5-14-65
ENG	D. WARDIMON	DATE	5-13-65
PROD.	D. WARDIMON	DATE	5-13-65

TRANSISTOR & DIODE CONVERSION CHART			
DEC		EIA	
DEC 3638	2N3638	IN758	IN758
2N2646	2N2646	2N4443	SAME
D662	IN645		
D664	IN3606		
IN4003	IN4003		

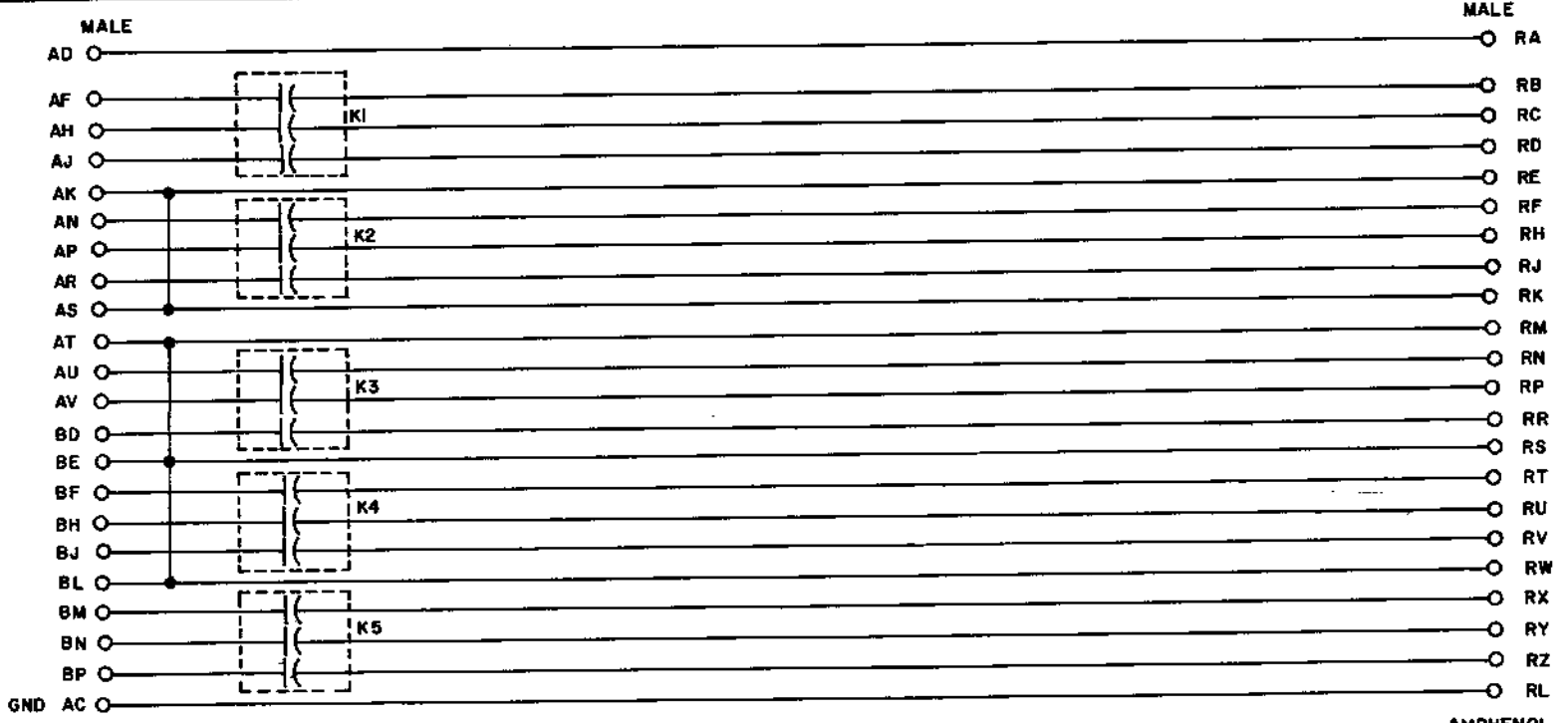


TITLE		S.C.R.	
MOTOR DRIVER G850			
SIZE	CODE	NUMBER	REV.
B	CS	G850-0-1	P
PRINTED CIRCUIT REV			
E H J K L			

↓

8 REV.	1-0-1989 NUMBER	B CS CODE	B SIZE
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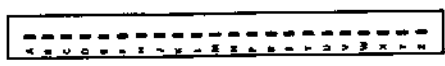
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AMPHENOL
133-022-03

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

-15V AB ○



REVISIONS	CHK'G NO. (REV.)
DRAW 4813	1
REV'D REOR.	B
3-11-65	0196

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

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

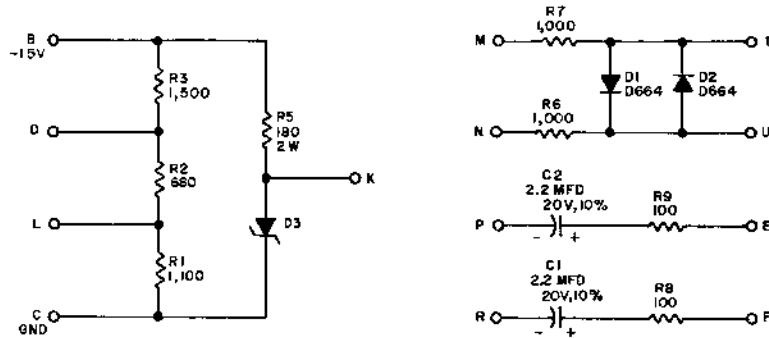
digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE RELAY G851			
SIZE B	CODE CS	NUMBER G851-0-1	REV. 8
PRINTED CIRCUIT REV.			B

↑

REV. A
 NUMBER G853-0-1
 SIZE CODE B CS

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UNLESS OTHERWISE INDICATED:
 RESISTORS ARE 1/4W, 5%
 D3=1N758A

REVISIONS	CHK'D	DATE
1

DRN	DATE	7-5-67
CHK'D	DATE	...
END	DATE	...
PROD.	DATE	...

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D664	1N3508B		
1N758A	SAME		

digital
 EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

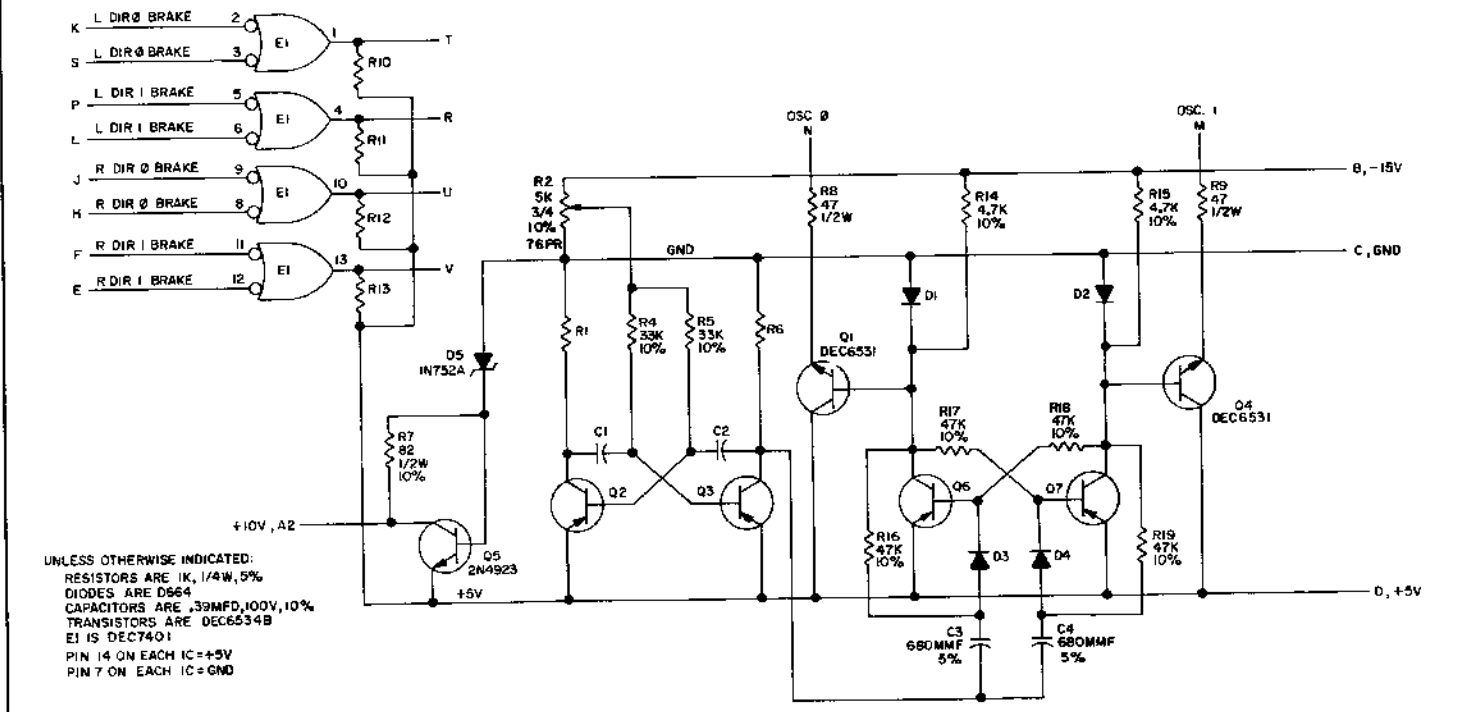
TITLE				MOTION & SELECTION			
				CIRCUIT G853			
SIZE	CODE	NUMBER	REV.				
B	CS	G853-0-1	A				
PRINTED CIRCUIT REV.							A

DEC FORM NO DRB 142

DIST 224 474 0 03

B 1-0-6689 CS B
 133 NUMBER 3003 SIZE

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UNLESS OTHERWISE INDICATED:
 RESISTORS ARE 1K, 1/4W, 5%
 DIODES ARE D564
 CAPACITORS ARE .39MFD, 100V, 10%
 TRANSISTORS ARE DEC6534B
 EI IS DEC7401
 PIN 14 ON EACH IC = +5V
 PIN 7 ON EACH IC = GND

REVISIONS	CHK	DRG NO	REV
1	100000	A	
2	100002	B	

DRN <i>BUTLER</i>	DATE 11-19-69
CHK'D <i>[Signature]</i>	DATE 11-22-69
ENG <i>[Signature]</i>	DATE 12-11-69
PROD	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D664	IN3606		
DEC6534B	MPS4534B		
DEC6531	MPS6531		
2N4923	SAME		

digital
 EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

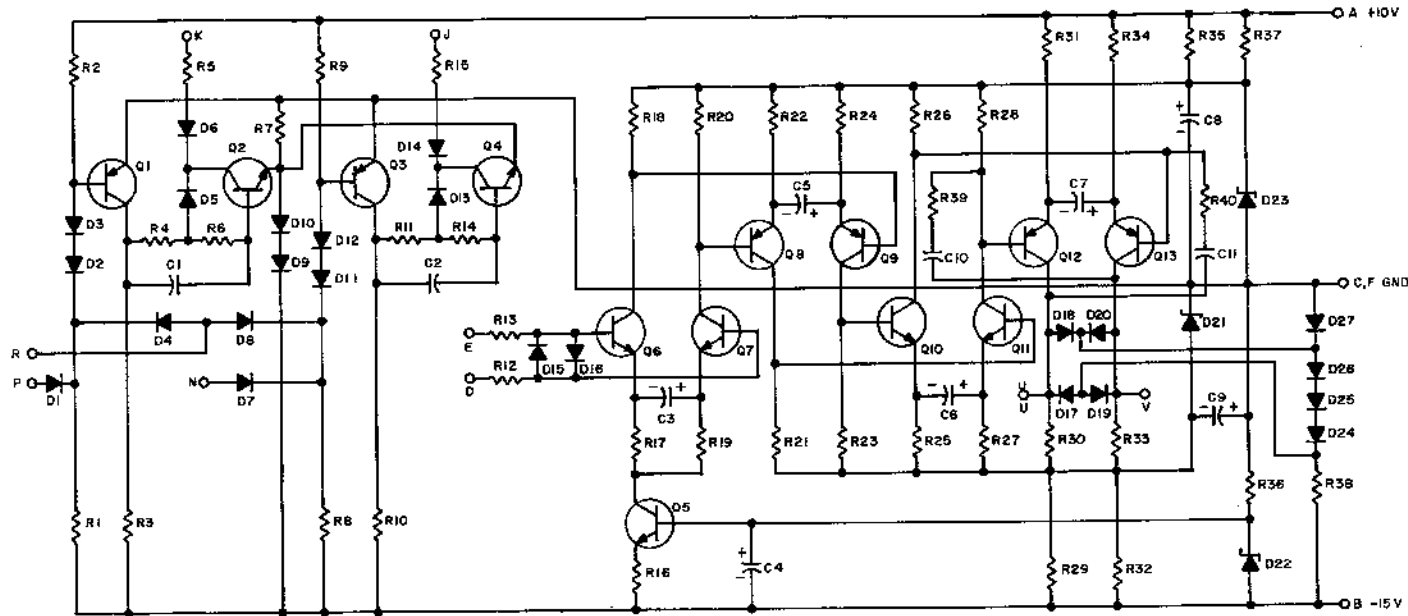
TITLE CLOCK & REGULATOR G859			
SIZE B	CODE CS	NUMBER G859-0-1	REV B
PRINTED CIRCUIT REV. A			

DEC FORM NO 08B 102

DATE 3-24-73 4.35 3

5 PINK

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Q8, Q9, Q12, Q13	TRANSISTOR DEC36388	1502979
Q5, 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	RES. 1.5K 1/4W 5% CC	1301422
D23	DIODE 1/4W 6.8A2	1100102
D22	DIODE 1N748 3.9V	1100121
D21	DIODE 1N756A 8.2V	1103441
D5, D6, D13, D14	DIODE D670	1102162
D2, D3, D11, D12, D24 THRU D27	DIODE D662	1100113
D1, D4, D7 THRU D10, D15 THRU D20	DIODE D664	1100114
C10, C11	CAP. 1.200MMF 100V 5% D.M.	1002430
C5	CAP. 2.2MFD 20V 10%	1002627
C4, C6, C7, C8, C9	CAP. 3.9MFD 10V 10% S.TANT	1000084
C3	CAP. .47MFD 20V 10% S.TANT	1005965
C1, C2	CAP. 680MMF 100V 5% D.M.	1000026
	PARTS LIST	A-PL-6882-O-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

REV. D
G 1 CS NUMBER
G 1 CS G882-O-0

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

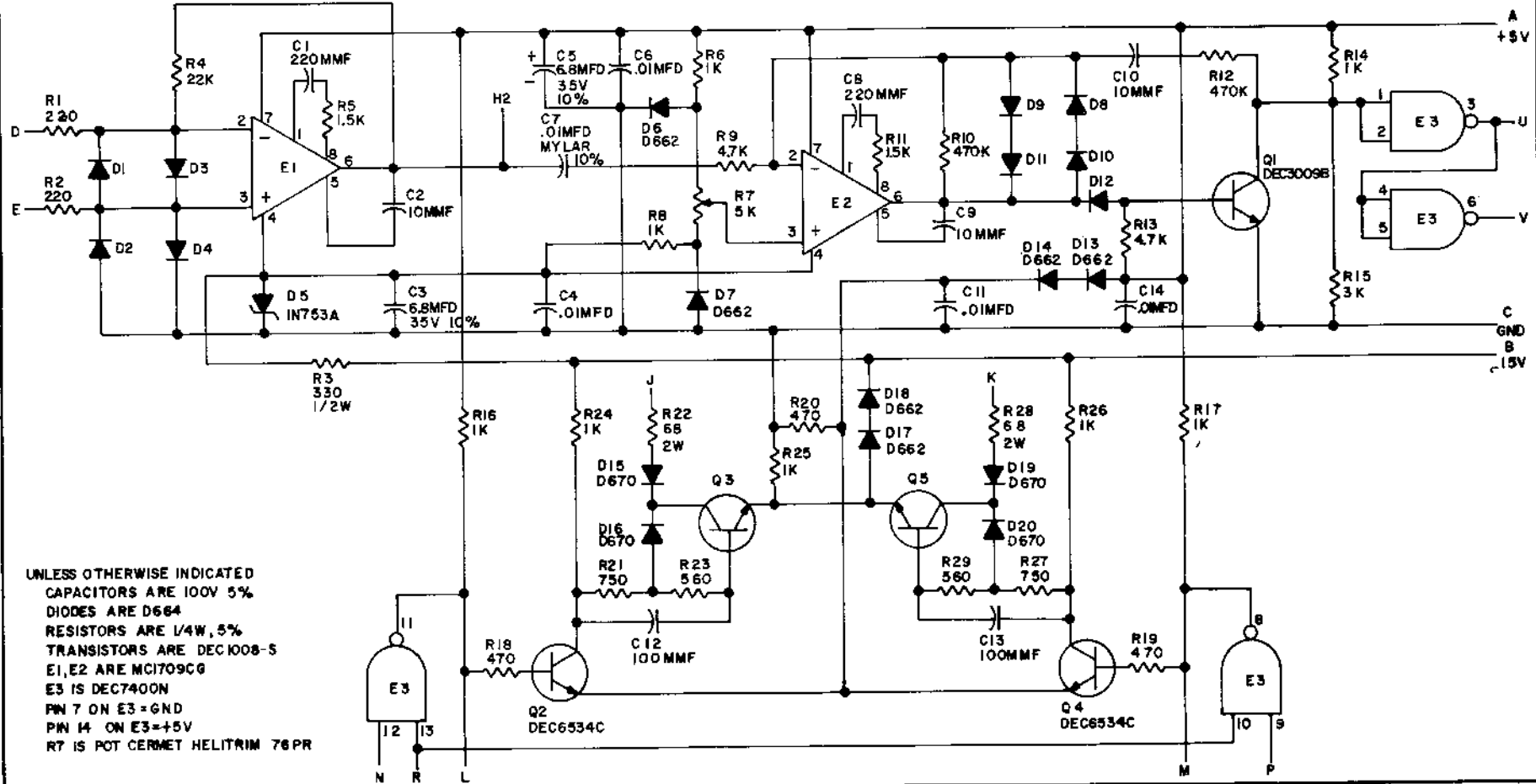
DESIGNER	DATE	TRANSISTOR & DIODE CONVERSION CHART
A. JUELLETTE	2-4-68	
CHK'D	DATE	DEC
R. SILVERMAN	2-9-68	EA
ENG.	DATE	DEC
R. SOBBE	2-9-68	EA
PROD.	DATE	DEC
		EA

DEC	EA	DEC	EA
DEC36388	2M3638	D662	1N643
DEC3009B-S	2M3009	D664	1N3608
1/4W 6.8A2	1N4099	D670	1N3653
DEC3500	EN3500	1N756A	3AME
DEC2894-3B	NONE	1N748	3AME



TITLE MANCHESTER READER
NUMBER G882-O-1
SIZE C CS
PRINTED CIRCUIT REV. B

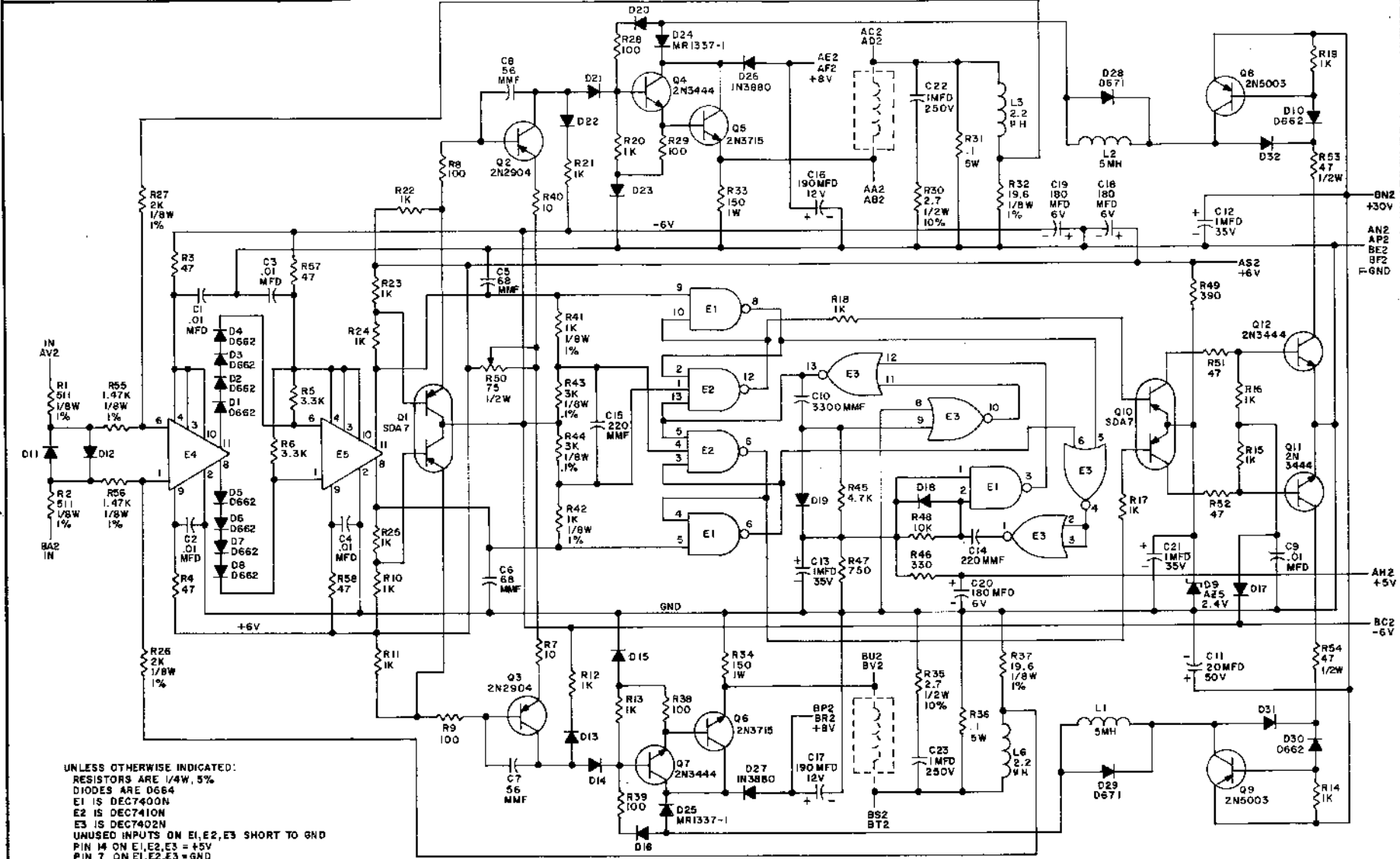
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UNLESS OTHERWISE INDICATED
 CAPACITORS ARE 100V 5%
 DIODES ARE D664
 RESISTORS ARE 1/4W, 5%
 TRANSISTORS ARE DEC1008-S
 E1, E2 ARE MC1709CG
 E3 IS DEC7400N
 PIN 7 ON E3 = GND
 PIN 14 ON E3 = +5V
 R7 IS POT CERMET HELITRIM 76PR

REVISIONS CHK CHG NO. REV.	DRN. <i>W. Blum</i> 8-24-68	DATE 8-24-68	TRANSISTOR & DIODE CONVERSION CHART				 digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE MANCHESTER READER/WRITER G888			
	CHKD. <i>J. P. Lett</i> 9/16/69	DATE 9/16/69	DEC	EIA	DEC	EIA		SIZE B	CODE CS	NUMBER G888-0-1	REV.
	ENGR. <i>J. Calver</i> 7/25/68	DATE 7/25/68	D664	IN306	DEC1008-S	MM1008					
	PROD.	DATE	D662	IN645							
			D670	SAME							
			DEC5008	2N3009B							
			DEC6534C	MP6534							

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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. NUMBER
 C 6912-0-1

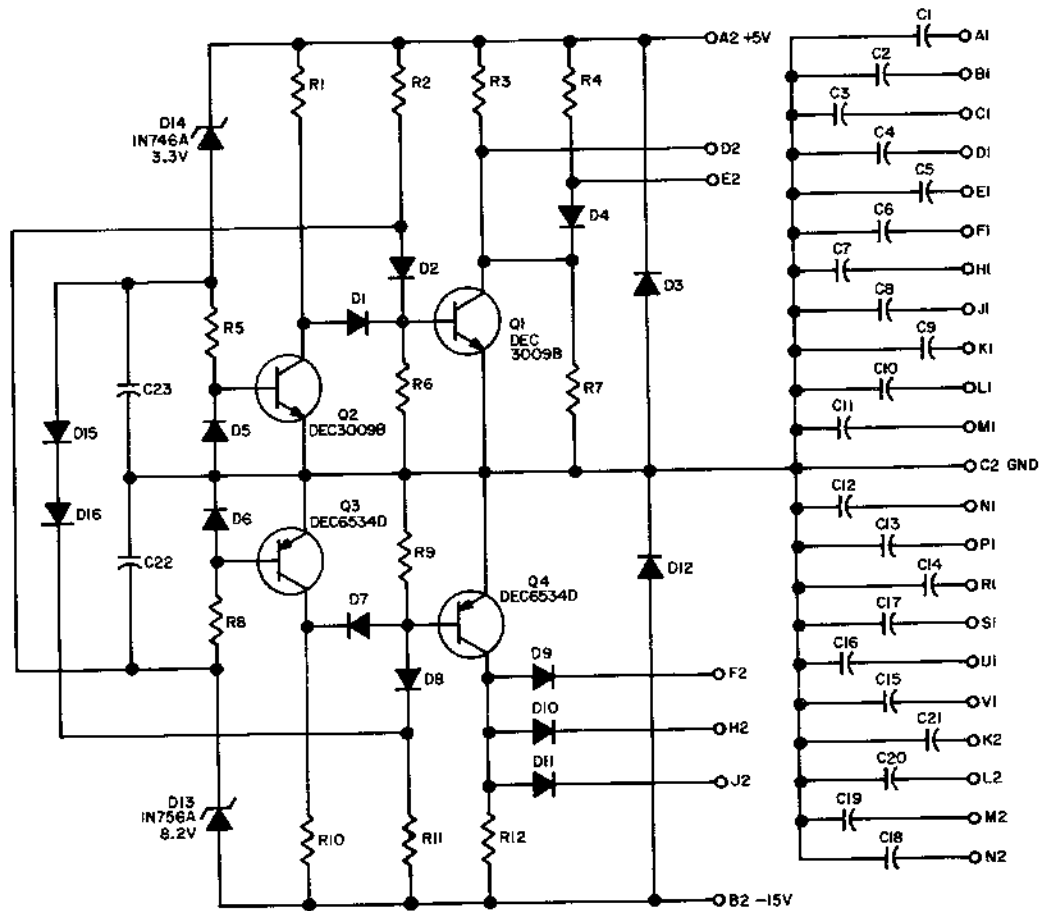
REVISIONS:
 DATE BY AND REV.

DATE		TRANSISTOR & DIODE CONVERSION CHART			
DATE	BY	DEC	EIA	DEC	EIA
6-10-69	M. Miller	D662	1N648	2N3715	NONE
6-19-69	J. Jones	D664	1N3806	SDA 7	SAME
8-2-69	J. Jones	D671	1N5653	2N5003	NONE
8-7-69	J. Jones	Q3	2N3880	2N5003	NONE
		Q4	2N3444	AE2 2.4V	NONE
		Q5	2N5715		
		Q6	2N3715		
		Q7	2N3444		
		Q8	2N2904		
		Q9	2N5003		
		Q10	2N5003		
		Q11	2N3444		
		Q12	2N3444		

digital DEFLECTION AMPLIFIER 6912
 EQUIPMENT CORPORATION
 WALTHAM, MASSACHUSETTS
 SIZE CODE NUMBER REV.
 C CS 6912-0-1
 PRINTED CIRCUIT REV. B

REV. 1-0-916-0-1 CS B
 NUMBER 8
 SIZE CODE

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

REV. NO.	CHG. NO.	REV.

DRN. BUTLER	DATE 4/29/69
CHK'D M. Mansfield	DATE 5-5-69
ENG. R. Schweitzer	DATE 6/16/69
PRGD. R. Schweitzer	DATE 6/16/69

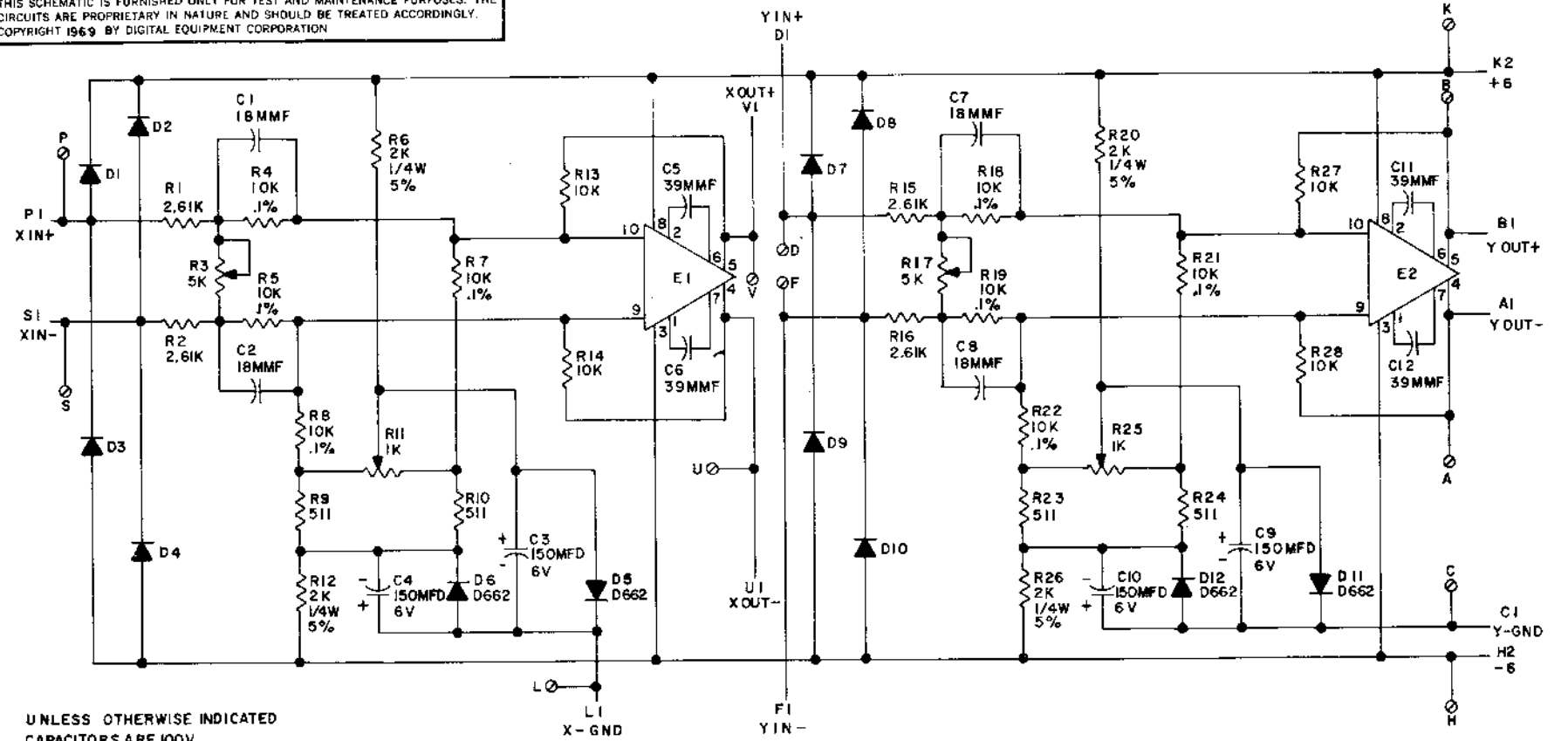
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3009B	2N3009B		
DEC6534D	MPS6534		
D664	IN3606		

digital
 EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

TITLE POWER DETECTOR AND SWITCH FILTER G916			
SIZE B	CODE CS	NUMBER G916-0-1	REV. A
PRINTED CIRCUIT REV. A			

REV NUMBER G917-0-1 B CS 3000

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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%

REV	CHK	CRG	NO.

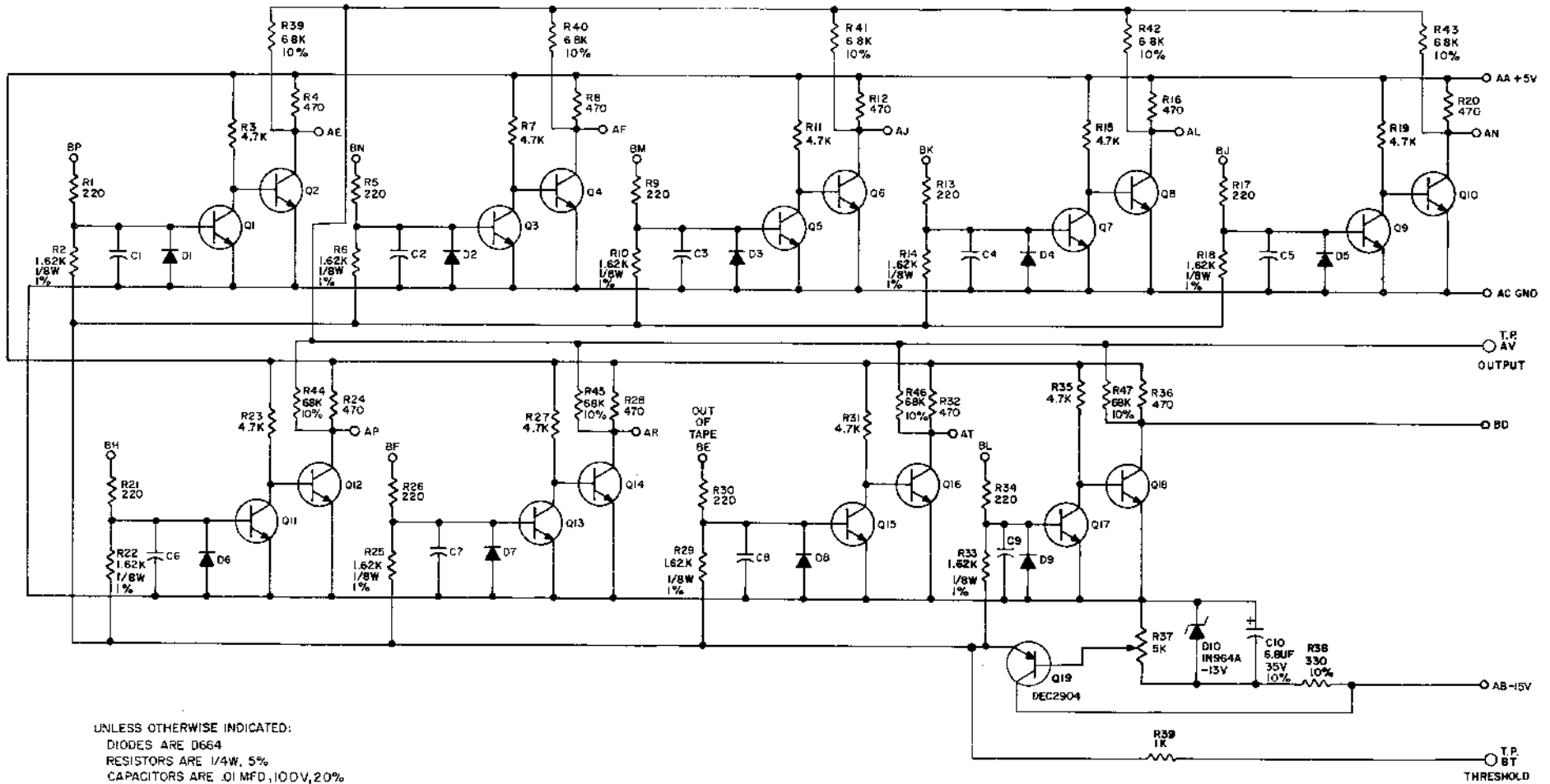
DRN	DATE
CHK'D	DATE
ENG.	DATE
PROG	DATE

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

digital
 EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

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

REV.	DATE	BY	CHKD
1	4/1/69	SAWLEN	
2	8/26/69		
3			

DATE	BY	CHKD
4/1/69	SAWLEN	
8/26/69		

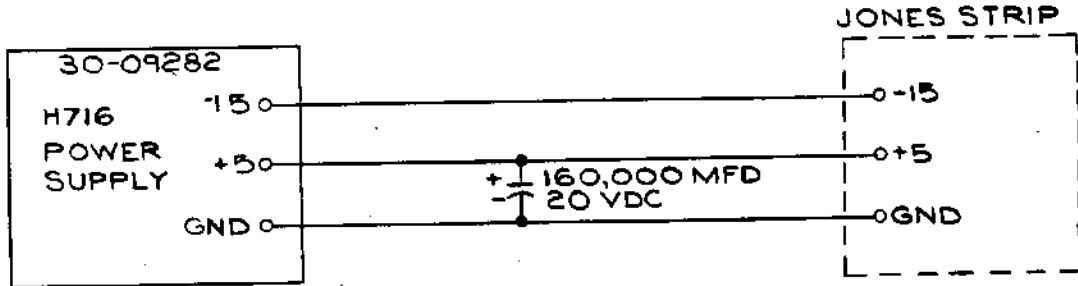
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
2N3646	2N3009	2N644 -13V	SAME
D664	1N3606	DEC2904	2N1132

digital
 EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

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

REV. NUMBER H719-0-1 CS B SIZE CODE 3000 3218

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REVISIONS
CHK'G NO. REV.

DRN. *P. Ferguson* DATE 4-29-69
CHK'D *[Signature]* DATE 5-8-69
ENG. *[Signature]* DATE
PRD. *[Signature]* DATE 6-6-69

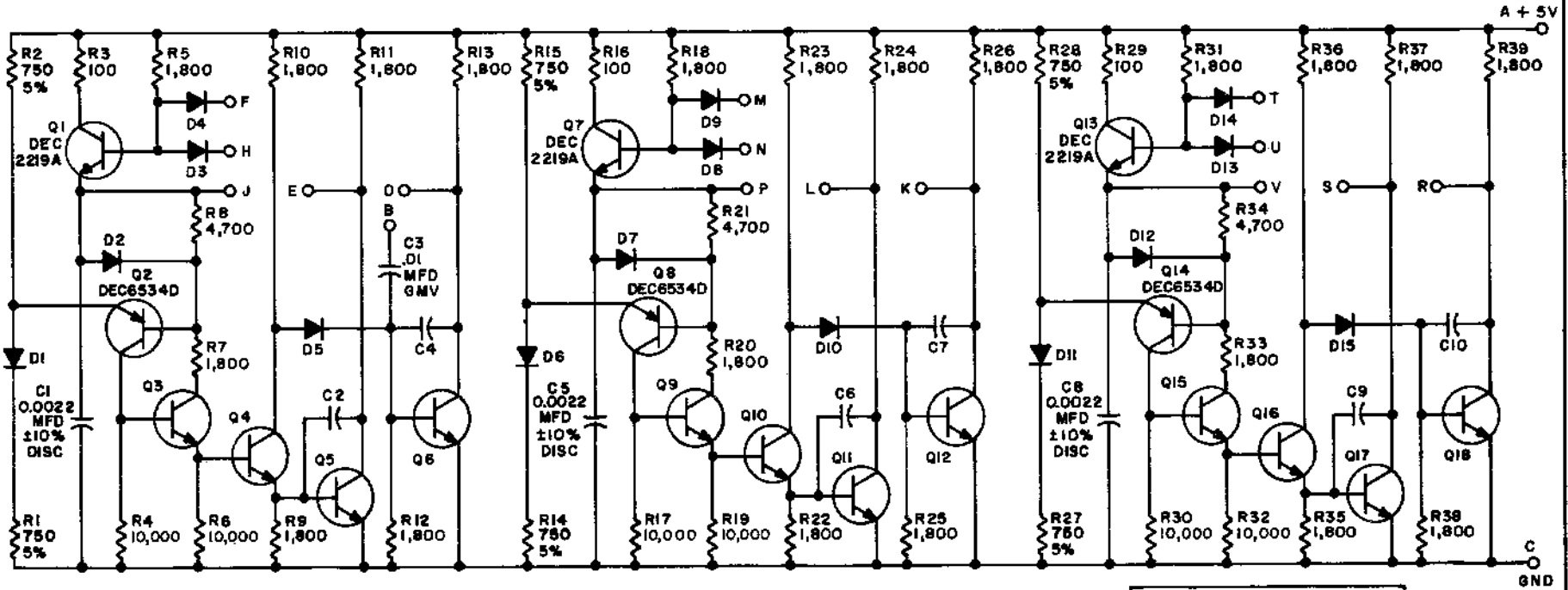
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital
EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

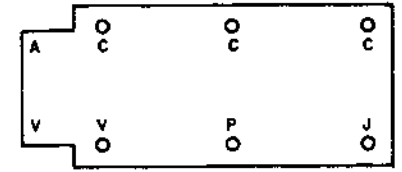
TITLE H719 P.S.
SIZE B CODE CS NUMBER H719-0-1 REV
PRINTED CIRCUIT REV.

REV C
 NUMBER 1-0-000K
 B CS
 SIZE CODE

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



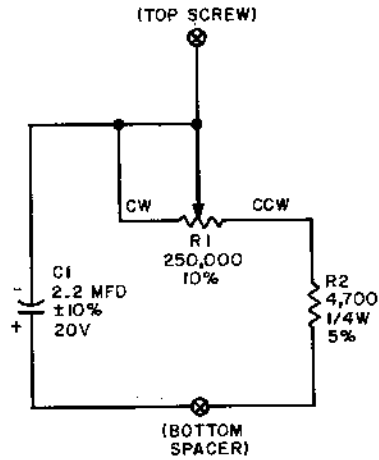
PARTS LIST IS A-PL- K303-0-0

REVISIONS CHK CHG NO. REV. B 2.0 6437 B 1.0 0001 C	DRN <i>W. Waller</i>	DATE 4-18-67	TRANSISTOR & DIODE CONVERSION CHART				 digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE THREE TIMERS K303			
	CHK'D <i>R. Brown</i>	DATE 9/20/67	DEC	EIA	DEC	EIA		SIZE B	CODE CS	NUMBER K303-0-1	REV. C
	ENG <i>R. Brown</i>	DATE 4/27/67	DEC1	2N3721				PRINTED CIRCUIT REV. B			
	PROD. 1	DATE	DEC6534D	MP6534				DIST: 324,434,435 ³			
			D600	IN4009			PINK				
			DEC2219A	2N2219							

DEC FORM NO. DRB 102

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

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

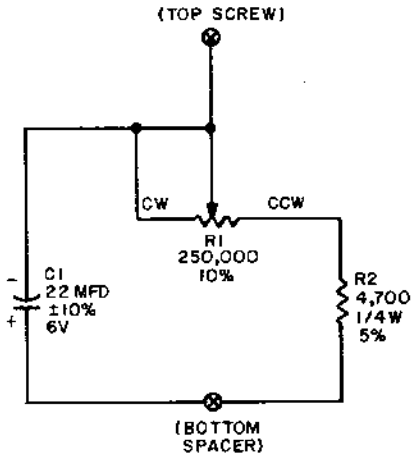
REVISIONS CHK'D ENG PROD.	CHG. NO.	REV.	DRN.	DATE	TRANSISTOR & DIODE CONVERSION CHART				digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE			REV.
	0000	A	<i>M. Wallen</i>	5-4-67	DEC	EIA	DEC	EIA		SIZE	CODE	NUMBER		A
				<i>K. Schuman</i>	5/16/67					B	CS	K374-0-1	
				<i>D. P. ...</i>	5/22/67								

PRINTED CIRCUIT REV. A B C

5 PINK

REV. A	NUMBER 1-0-928	CS B	SIZE 3
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UNLESS OTHERWISE INDICATED:
 R1 IS ALLEN-BRADLEY TSA2541
 MODIFIED CLOCKWISE LOG TAPER
 C1 IS SPRAGUE 150D226X9006A2 OR EQUIV.

REVISIONS	CHK	CHG NO.	REV.
	<i>AW</i>	00001	A

DRN.	<i>M. Waller</i>	DATE	<i>5-8-67</i>
CHK'D	<i>R. Johnson</i>	DATE	<i>5/2/67</i>
ENG.	<i>R. Fong</i>	DATE	<i>5/22/67</i>
PROD.		DATE	

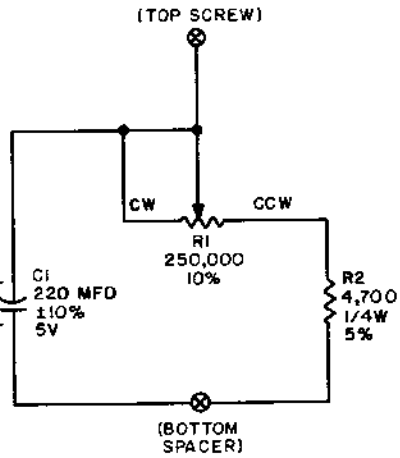
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

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		

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

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UNLESS OTHERWISE INDICATED:
 R1 IS ALLEN-BRADLEY TSRA2541
 MODIFIED CLOCKWISE LOG TAPER
 C1 IS SPRAGUE 130D227X9005FD OR EQUIV.

REVISIONS	CHK'D	NO.	REV.
		00001	A

DRN.	DATE
<i>M. Waller</i>	5-9-67
CHK'D	DATE
<i>R. Draz</i>	5/15/67
ENG.	DATE
<i>R. Draz</i>	5/15/67
PROD.	DATE

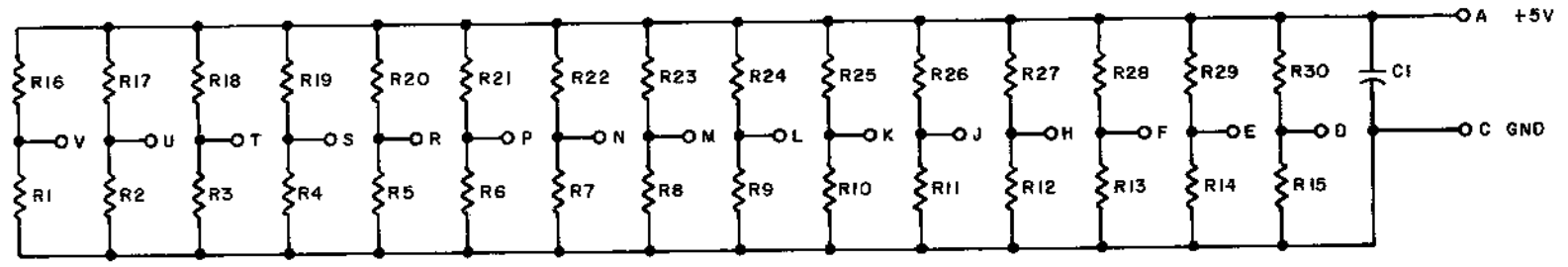
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital
 EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

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

REV. NUMBER MO02-0-1 CS B SIZE

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 <----->

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.

REVISIONS	CHK/CHG NO.	REV.

DRN	DATE
<i>M. Walker</i>	6-21-68
CHK'D	DATE
<i>W. J. Miller</i>	6/24/68
ENG.	DATE
<i>W. White</i>	7/9/68
PROD.	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital
 EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

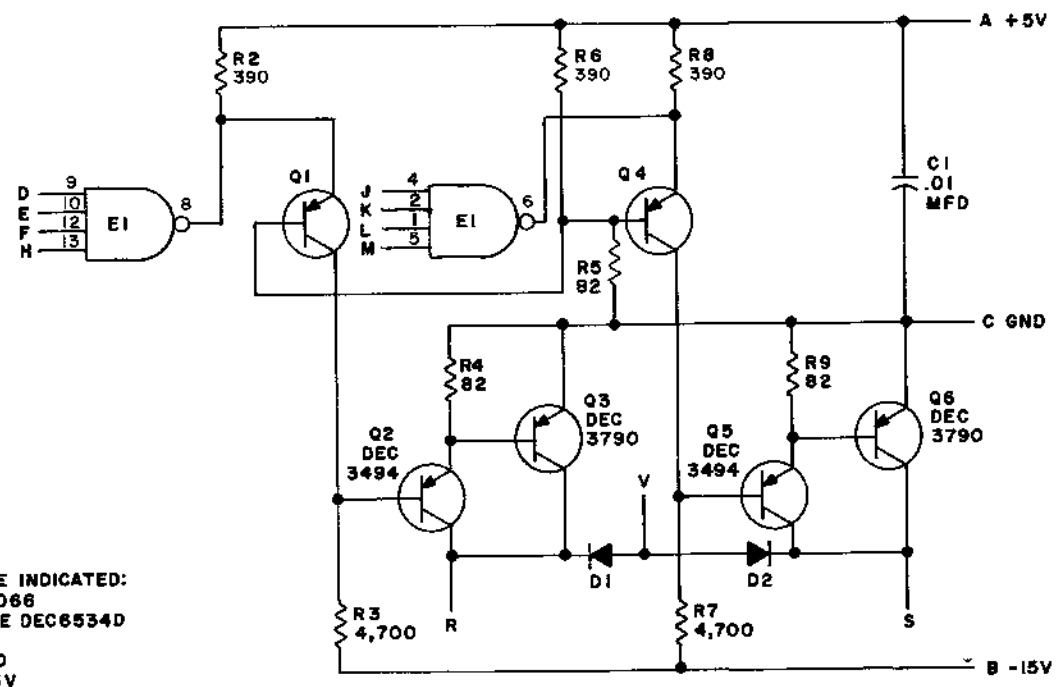
TITLE			
15 LOADS MO02			
SIZE	CODE	NUMBER	REV
B	CS	MO02-0-1	
PRINTED CIRCUIT REV.			A

PINK

DIST. 324 W. 37 W. 55

REV	E	NUMBER	M040-0-1	CS	B	SIZE
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UNLESS OTHERWISE INDICATED:
 DIODES ARE MR2066
 TRANSISTORS ARE DEC6534D
 EI IS DEC7420N
 PIN 7 ON IC = GND
 PIN 14 ON IC = +5V
 RESISTORS ARE 1/4W, 10%

PARTS LIST A-PL-M040-0-0



REV	E
CHK	00001
CHG	00002
NO	

DRN	<i>M. Haller</i>	DATE	3-14-67
CHK'D	<i>[Signature]</i>	DATE	3/22/67
ENG	<i>[Signature]</i>	DATE	3/19/67
PROD.	4	DATE	

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3494	SAME		
DEC3790	2N3790		
DEC6534D	MPS6534		
0662	IN645		
MR2066	IN4003		

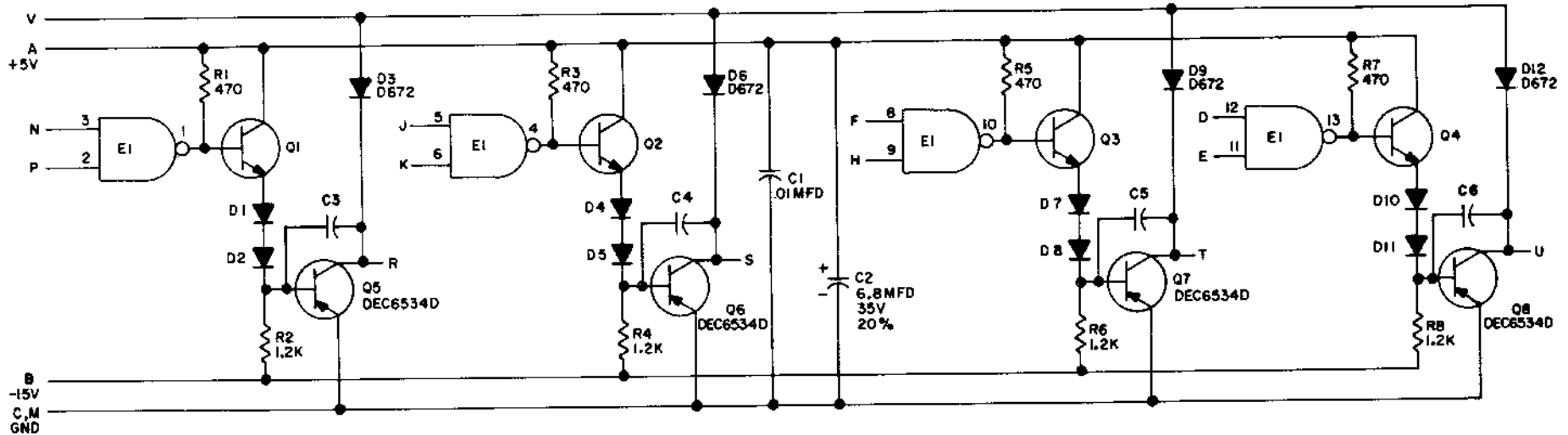
digital
 EQUIPMENT CORPORATION
 WAYNARD, MASSACHUSETTS

TITLE			
SOLENOID DRIVER M040			
SIZE	CODE	NUMBER	REV.
B	CS	M040-0-1	E
PRINTED CIRCUIT REV.			

↓

REV	B	NUMBER	MO44-0-1	SIZE	B
CS					

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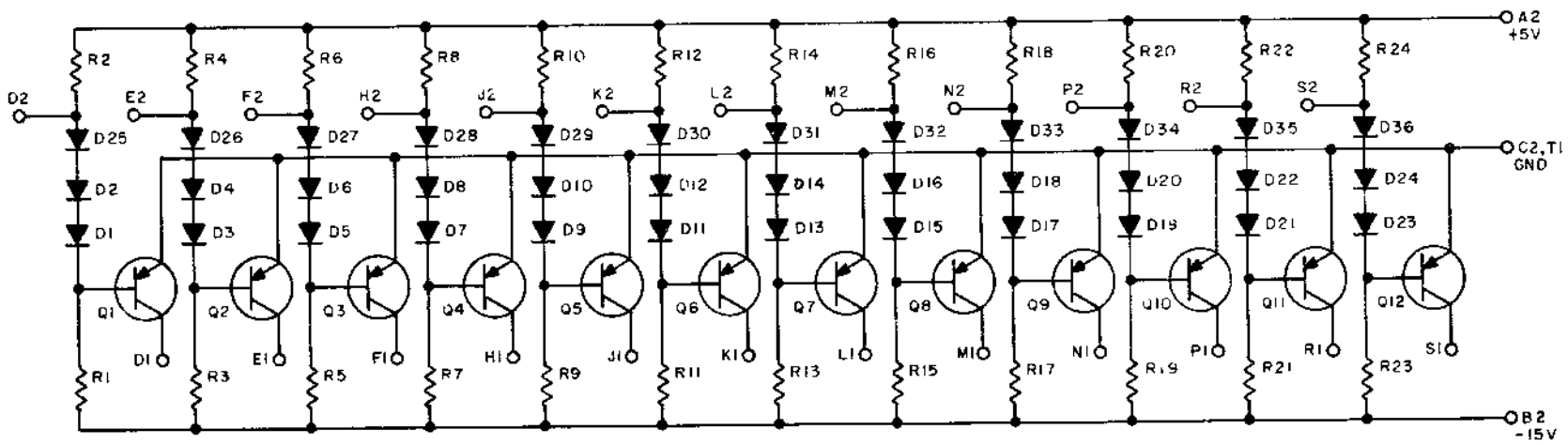


UNLESS OTHERWISE INDICATED:
 RESISTORS ARE 1/4W, 10%
 DIODES ARE D664
 EI IS DEC7401N
 TRANSISTORS ARE DEC3009B
 PIN 7 ON EACH IC = GND
 PIN 14 ON EACH IC = +5V
 CAPACITORS ARE 100pf, 100V, 5%

REVISIONS CHK (CHK NO. / REV.) 1000001 B	DRN <i>Botch</i>	DATE <i>6/23/68</i>	TRANSISTOR & DIODE CONVERSION CHART					TITLE 4-100MA SOLENOID DRIVER MO44			
	CHK'D <i>[Signature]</i>	DATE <i>5/24/69</i>	DEC	EIA	DEC	EIA		SIZE	CODE	NUMBER	REV.
	ENG <i>[Signature]</i>	DATE <i>7/13/69</i>	D664	1N3606				B	CS	MO44-0-1	B
	PROD.	DATE	DEC6534D	MPS9534				PRINTED CIRCUIT REV.			
			DEC3009B	2N3009							

REV 1-0-190W SC 8
 NUMBER 300 215

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 CIRCUITS ARE PROPRIETARY IN NATURE AND SHOULD BE TREATED ACCORDINGLY
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Q1 - Q12	TRANSISTOR DEC3639B	1502762
R20, R22, R24	RES. 1.5K 1/4W 5% CC	1300391
R2, R4, R6, R8, R10, R12, R14, R16, R18	RES. 15K 1/4W 5% CC	1300496
R21, R23	RES. 15K 1/4W 5% CC	1300496
R1, R3, R5, R7, R9, R11, R13, R15, R17, R19	RES. 15K 1/4W 5% CC	1300496
D1 - D36	DIODE D664	1100114
	PARTS LIST	A PL-M050-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

REVISIONS CHK/CHG NO/REV	DRN <i>M. Walker</i>	DATE 10-23-68	TRANSISTOR & DIODE CONVERSION CHART				TITLE LEVEL CONVERTER M051
	CHK'D <i>Dr. Miller</i>	DATE 10-28-68	DEC	EIA	FEL	EIA	
	EMG <i>...</i>	DATE 12/1/68	DEC3639B	2N3639			digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
	PROD	DATE	D664	1N3606			
			SIZE B CODE CS NUMBER M051-0-1 REV PRINTED CIRCUIT REV A				

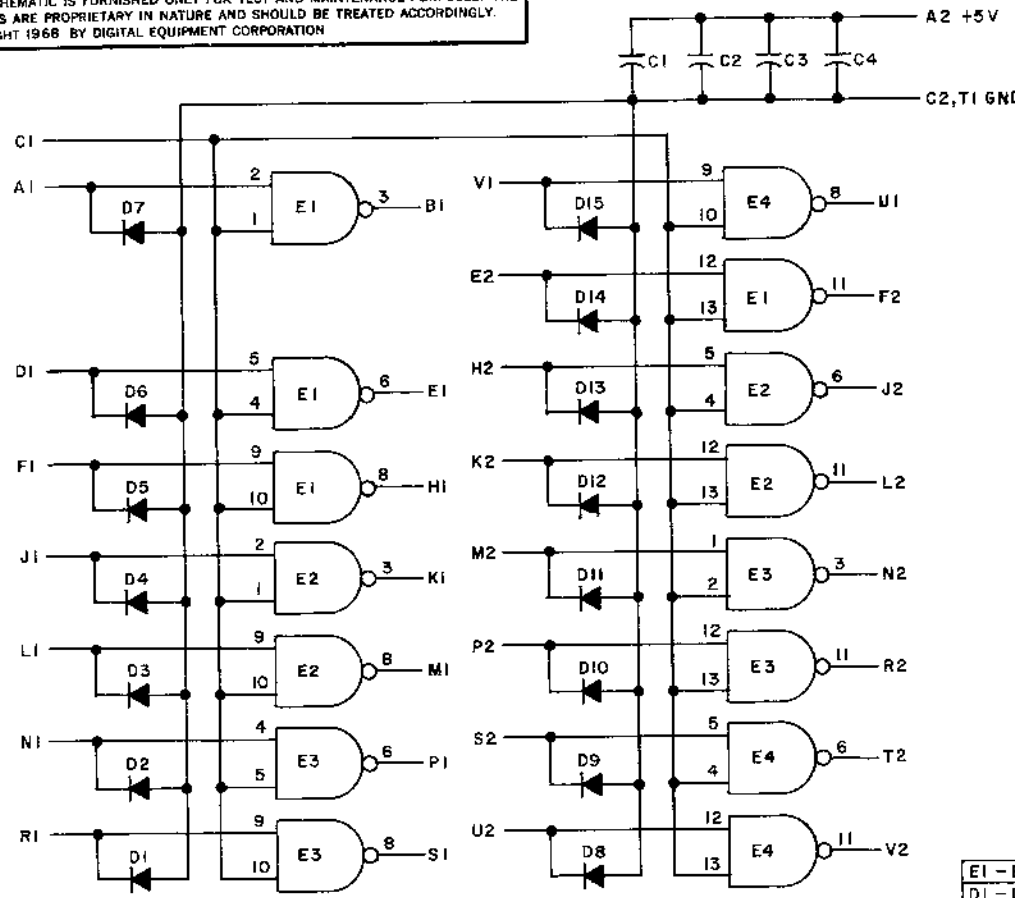
DEC FORM NO
 DRB 102

Dist. 324 434 435 2

P I N K

REV.	NUMBER	SIZE	CODE	B
	1-0-101W	CS		

THIS SCHEMATIC IS FURNISHED ONLY FOR TEST AND MAINTENANCE PURPOSES. THE CIRCUITS ARE PROPRIETARY IN NATURE AND SHOULD BE TREATED ACCORDINGLY. COPYRIGHT 1966 BY DIGITAL EQUIPMENT CORPORATION



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.

REVISIONS	DRN.	DATE
CHK/CHG NO. REV.	<i>M. Walker</i>	8-5-68
	CHK'D	DATE
	<i>M. Walker</i>	8-6-68
	ENG.	DATE
	<i>J. S. ...</i>	9-6-68
	PROD.	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D664	1N3606		

digital
EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

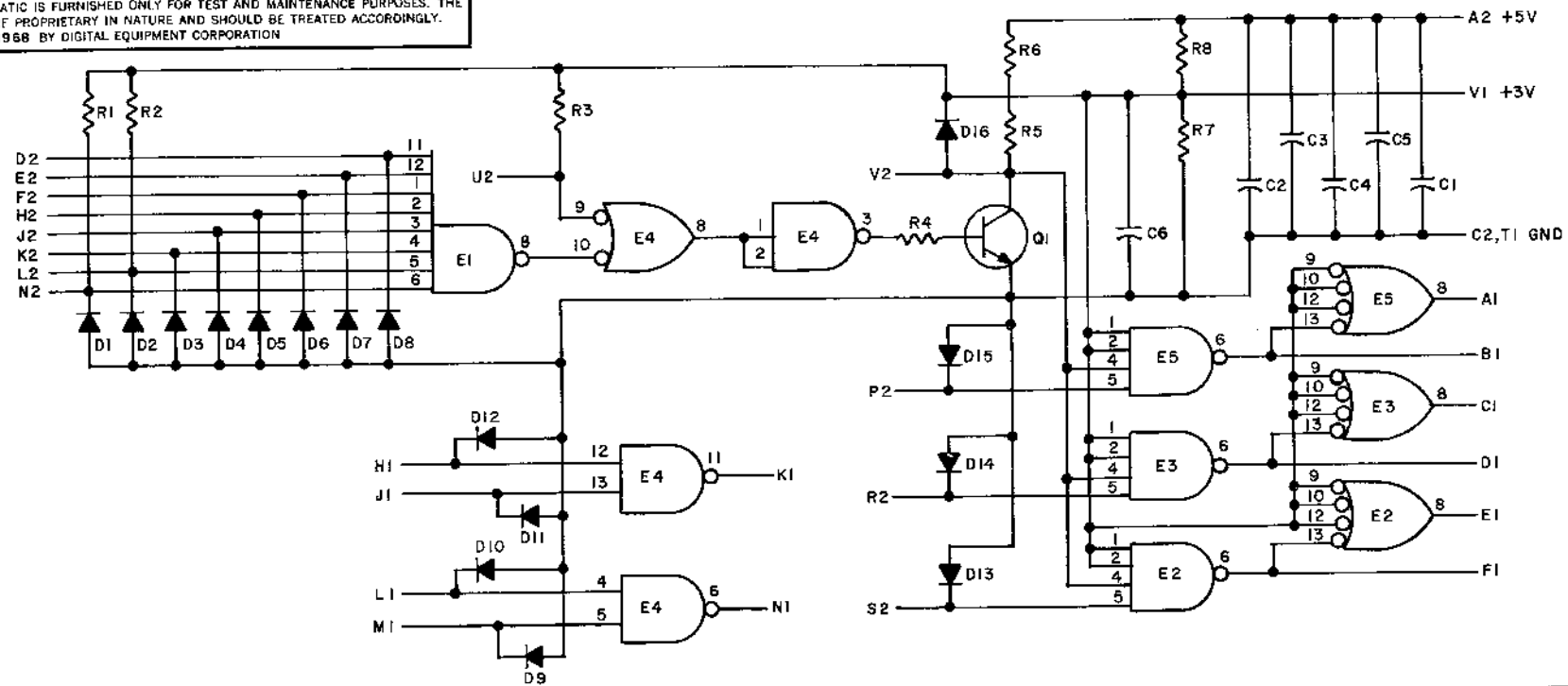
TITLE: BUS DATA INTERFACE M101

SIZE	CODE	NUMBER	REV.
B	CS	M101-0-1	

PRINTED CIRCUIT REV. A

REV. A
 NUMBER M103-0-1
 B CS
 SIZE CODE

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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	PART NO.

REVISIONS	CHK'D	REV.	DATE
00001 A			
DRN: <i>M. Dutton</i>	DATE	10-4-68	
CHK'D	DATE	3-11-69	
ENG. <i>G. H. ...</i>	DATE	01/12/70	
PROD. <i>W. ...</i>	DATE		

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

digital EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

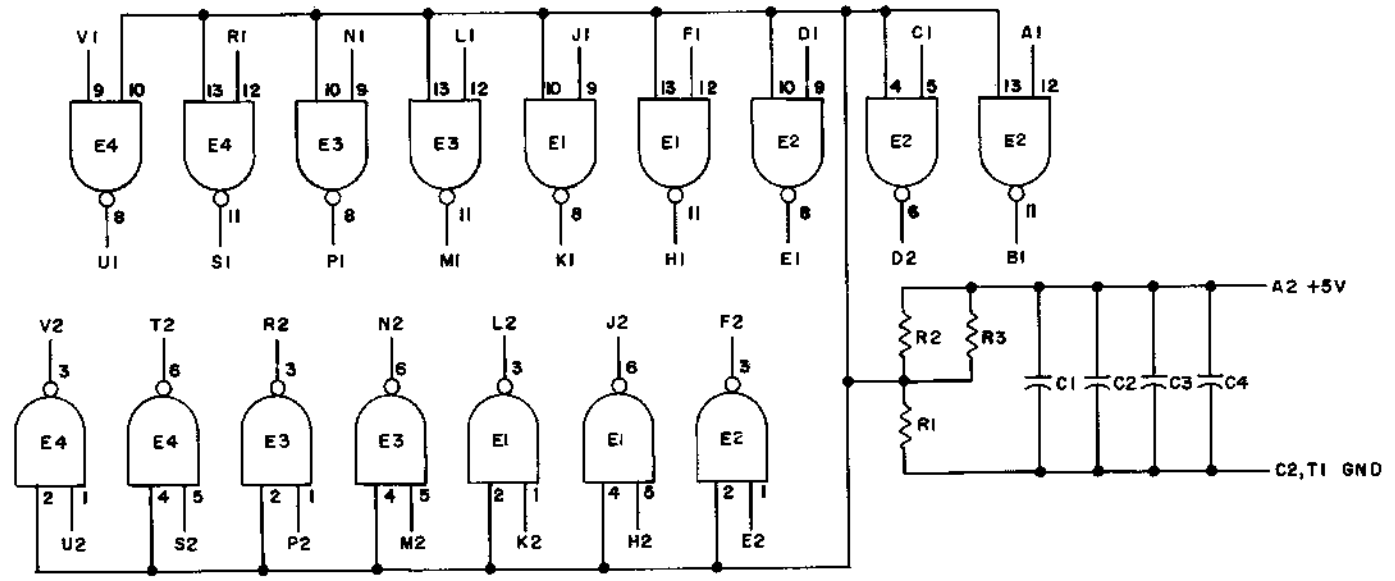
TITLE: DEVICE SELECTOR M103

SIZE: B CODE: CS NUMBER: M103-0-1 REV. A

PRINTED CIRCUIT REV. B

REV. A NUMBER 1-0-111W CS B SIZE CODE

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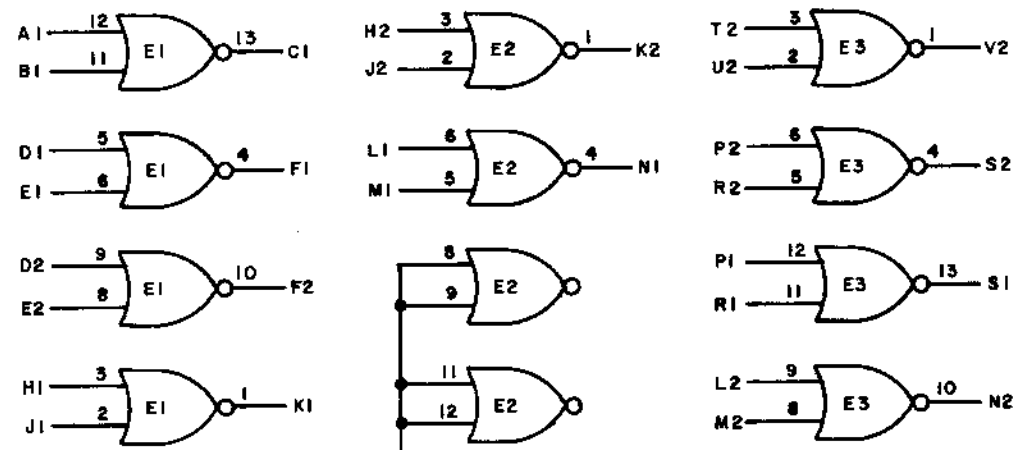
NOTES:
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V

E1-E4	INTEGRATED CKT. DEC7400N	1905675
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. 2 0001 A	DRN. <i>M. Waller</i>	DATE 5-31-68	TRANSISTOR & DIODE CONVERSION CHART			TITLE INVERTER M111				
	CHK'D <i>[Signature]</i>	DATE 6/11/68	DEC	EIA		DEC	EIA	SIZE B	CODE CS	NUMBER M111-0-1	REV. A
	ENG. <i>[Signature]</i>	DATE 7/5/68					PRINTED CIRCUIT REV.	C		
	PROD. <i>[Signature]</i>	DATE								

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

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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. 350 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.
	SM	00001	A
	WJ	00002	C
	WJ	00003	D

DRN	Mr. Waller	DATE	2-20-68
CHK'D		DATE	2/20/68
ENG	J. Ravetto	DATE	3/7/68
PROD.		DATE	

TRANSISTOR & DIODE CONVERSION CHART			
DEC		EIA	

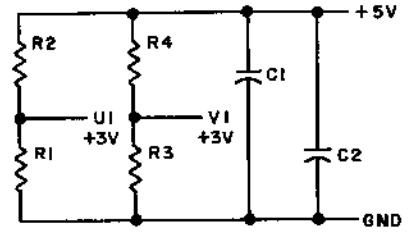
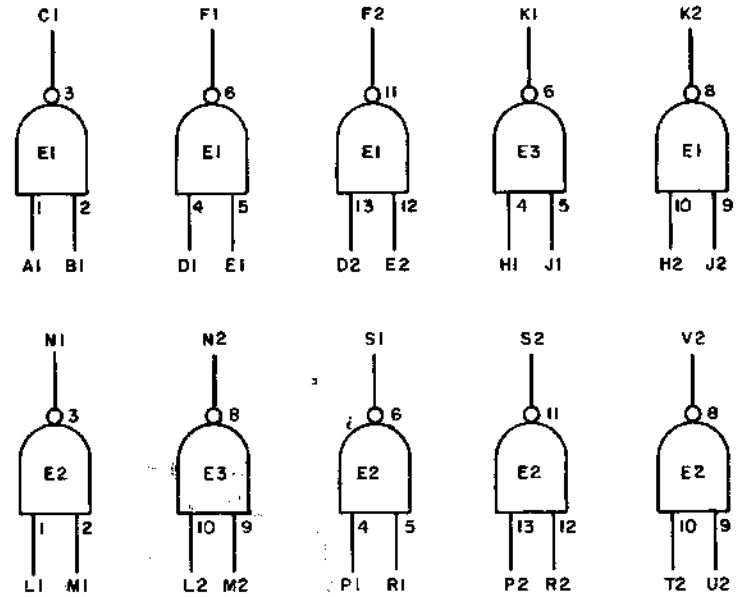
digital		TITLE	
EQUIPMENT CORPORATION		NOR GATE M112	
SIZE	CODE	NUMBER	REV.
B	CS	M112-0-1	D
MAYNARD, MASSACHUSETTS			
PRINTED CIRCUIT REV.			

DIST. 324 934 435 (3) PINK

REV C
 NUMBER MI13-0-1
 SIZE CODE B
 CS 3002
 3215

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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. 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-MI13-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.
PARTS LIST		

REVISIONS	CHK'D	ENG	PROD
1	6425	8801	00001
2			
3			

DRN. <i>M. Valler</i>	DATE 3-15-67
CHK'D <i>M. Valler</i>	DATE 4-21-67
ENG. <i>Z. White</i>	DATE 4-21-67
PROD	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

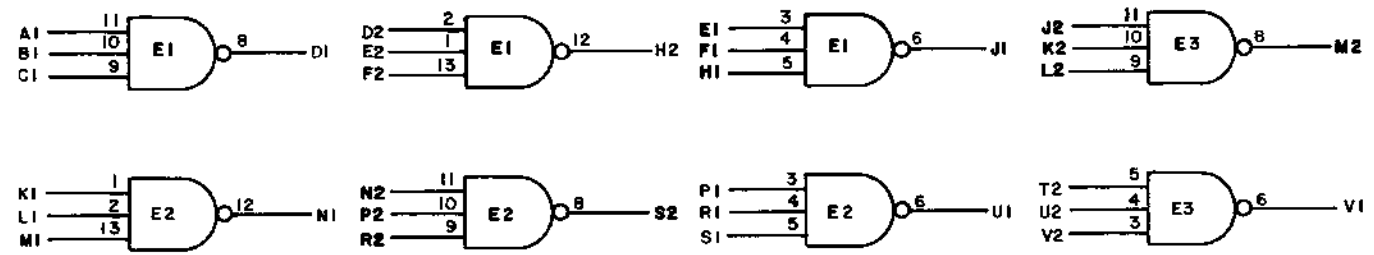
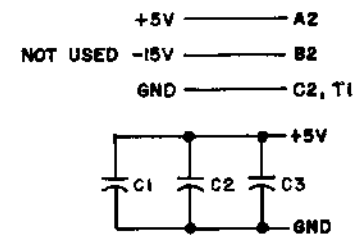
digital
 EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

TITLE 10-2 INPUT NAND GATES MI13			
SIZE B	CODE CS	NUMBER MI13-0-1	REV C
PRINTED CIRCUIT REV D			

↓

REV. C	NUMBER 1-0-9111	CS	B
		SIZE	8

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

E1 THRU E3	INTEGRATED CKT. DEC7410N	190576
C1 THRU C3	CAP. .01MFD 100V 20% DISC	1001610
	PARTS LIST	A-PL-M115-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

REVISIONS	CHK CHG NO REV	DRN	DATE
	3423 A	M. Waller	4-20-67
	8800 B	<i>[Signature]</i>	4-21-67
	00001 C	J. White	4/21/67
		PROD.	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital

EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

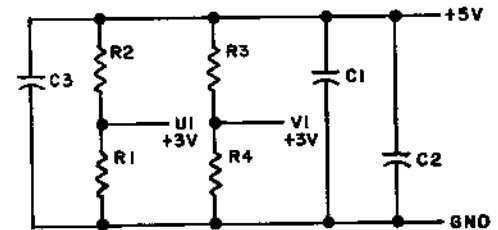
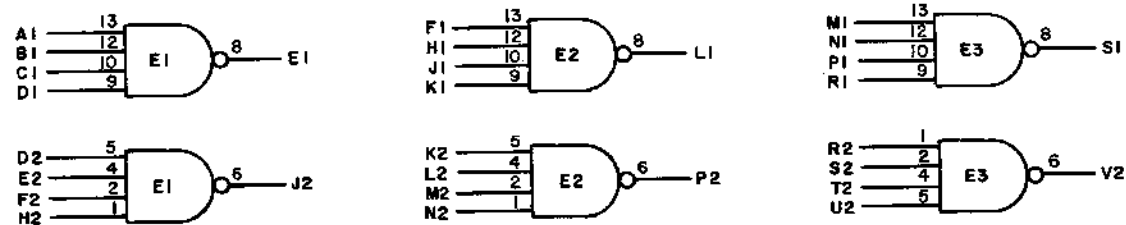
TITLE

8-3 INPUT NAND GATES M115

SIZE B	CODE CS	NUMBER M115-0-1	REV. C
PRINTED CIRCUIT REV			D

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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-M117-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

REVISIONS	CHK	CHG NO	REV
		6424	A
		8799	B
		00001	C
		00002	E

DRN	M. Nallen	DATE	3-18-67
CHK'D		DATE	4-21-67
ENG.		DATE	4-21-67
PROD.		DATE	

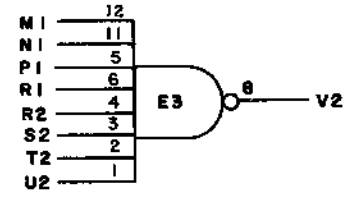
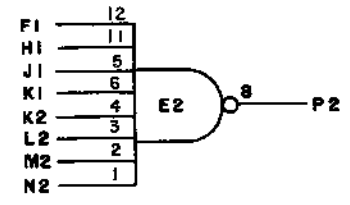
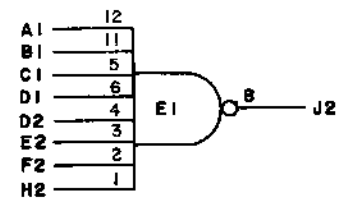
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital
 EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

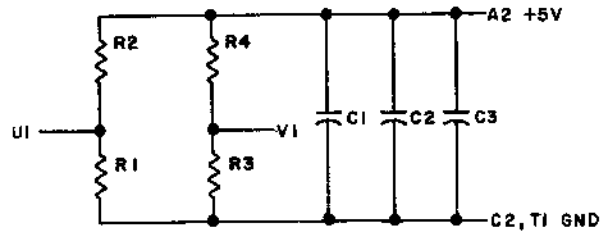
TITLE				6-4 INPUT NAND GATES M117			
SIZE	CODE	NUMBER	REV				
B	CS	M117-0-1	E				
PRINTED CIRCUIT REV				E			
DISC	324	434	143	3			5

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

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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	1001810
	PARTS LIST	A-PL-M119-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

REVISIONS	CHKG NO	REV
	6804	A
	00001	B

DRN	DATE
<i>Dr. Waller</i>	8-1-67
CHK'D	DATE
<i>F. Johnson</i>	8/14/67
ENG	DATE
<i>Alan Roberts</i>	8/11/67
PROD.	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

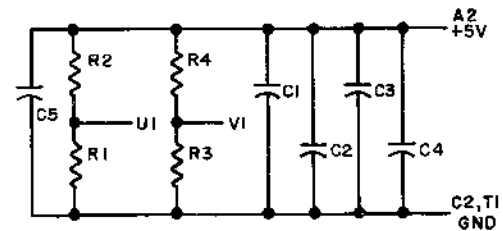
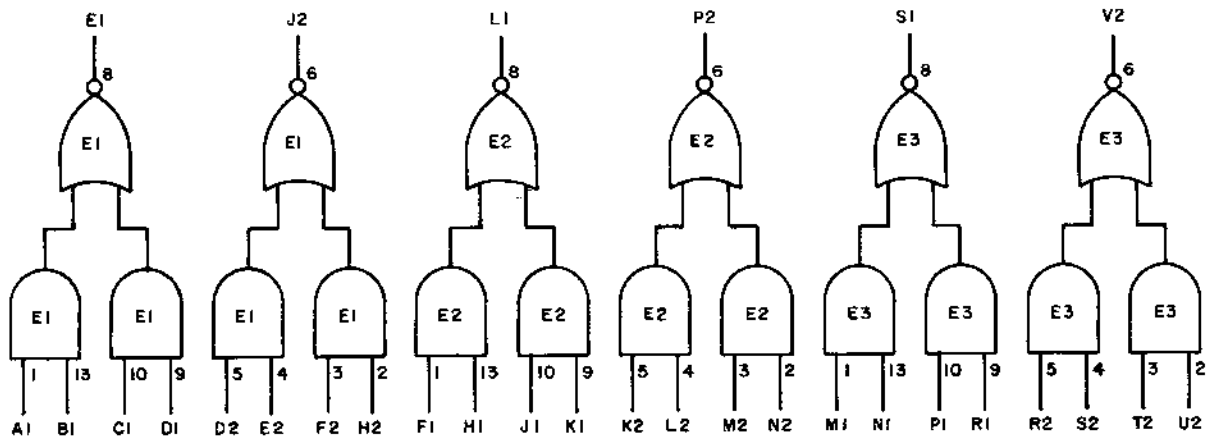
TITLE: 3-8 INPUT NAND-GATES
 M119

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

PRINTED CIRCUIT REV. C

C	M121-0-1	B	CS
REV.	NUMBER	SIZE	CODE

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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-M121-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

PARTS LIST

REVISIONS	CHK	CHG NO.	REV.	DRN.	DATE
1	2	6802	A	M. Weller	4-27-67
2	MM	DD001	B		4-21-67
3	MM	00002	C	L. White	9-21-67
				PROD.	DATE

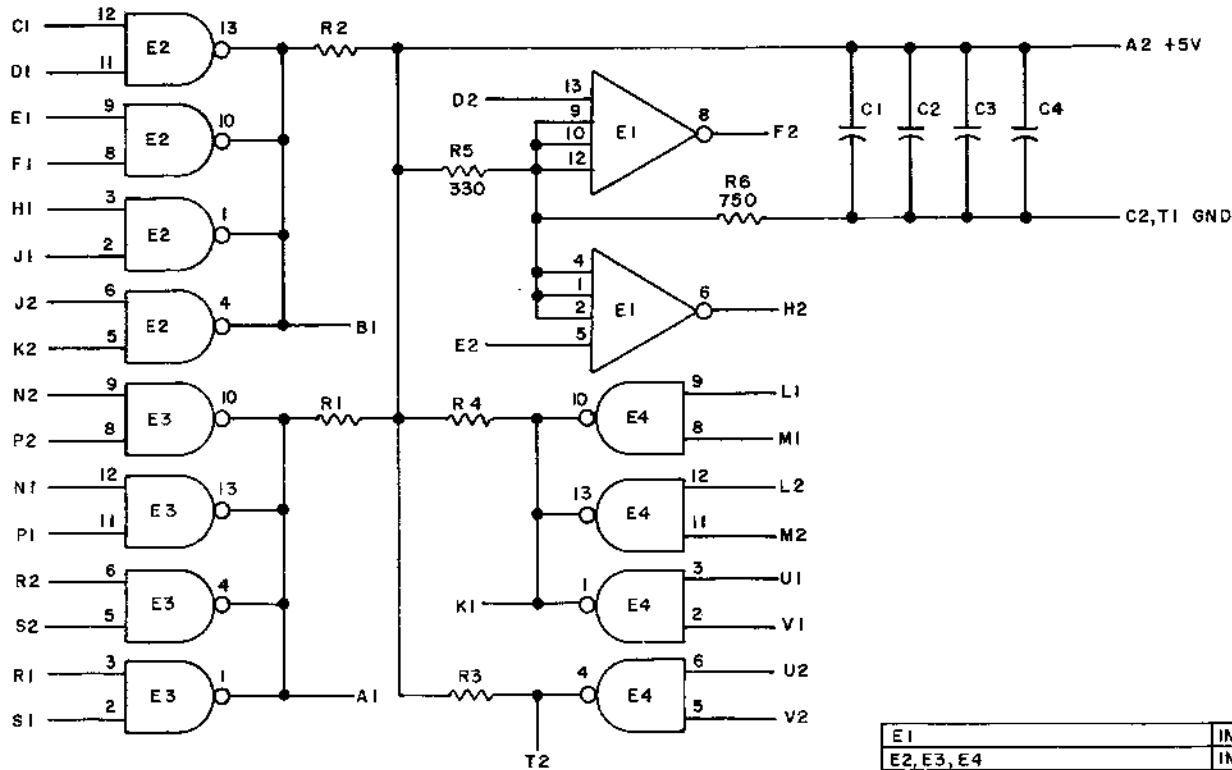
TRANSISTOR & DIODE CONVERSION CHART			
DEC		EIA	



TITLE			
AND-NOR GATE M121			
SIZE	CODE	NUMBER	REV
B	CS	M121-0-1	C
PRINTED CIRCUIT REV.			D

REV B
 NUMBER MI41-0-1
 CS B
 SIZE 329

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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.

PARTS LIST

REVISIONS	CHK'D	NO	DATE
REV B	R. SILVERMAN	6803	A
00001	B		

DRN.	DATE
M. HALLER	10-6-67
CHK'D R. SILVERMAN	DATE 10-13-67
ENG L. WHITE	DATE 10-13-67
PROD.	DATE

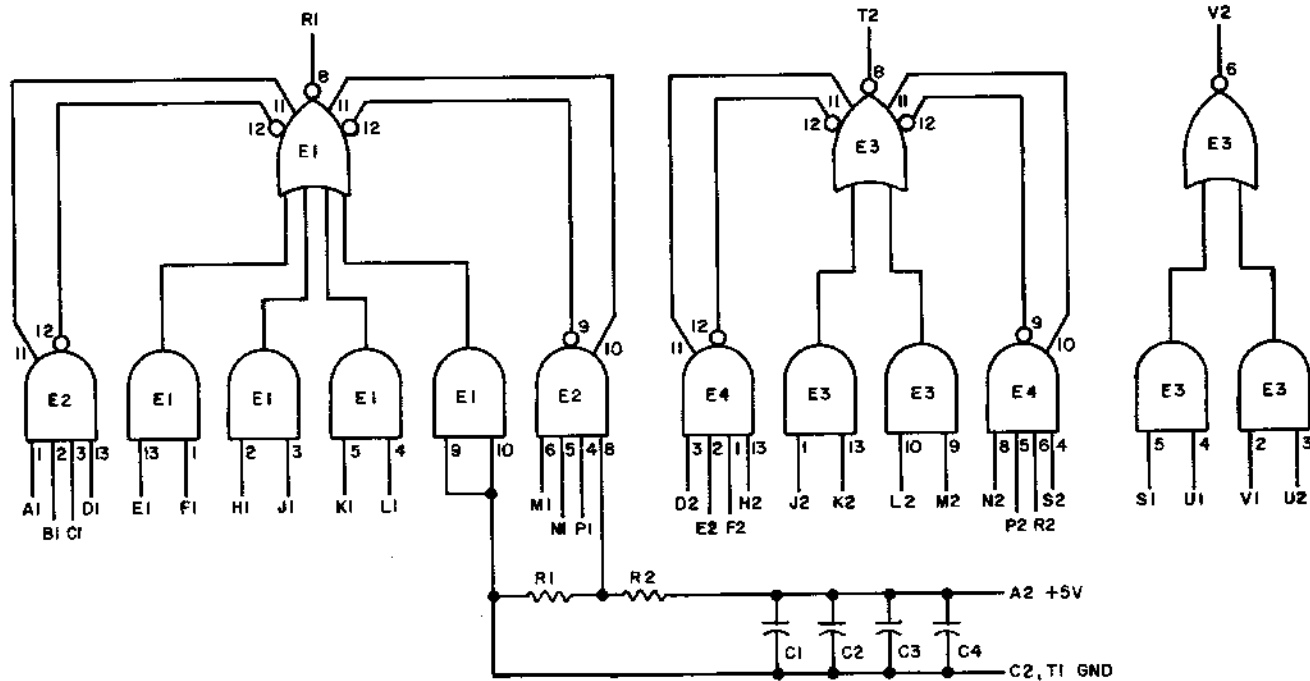
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

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 MAYNARD, MASSACHUSETTS

TITLE			
AND/NOR GATES MI41			
SIZE	CODE	NUMBER	REV.
B	CS	MI41-0-1	B
PRINTED CIRCUIT REV.			C

REV. B
 NUMBER M160-0-1
 SIZE CODE CS
 8

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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-M160-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

REVISONS	CHK	CHG NO.	REV.
	MM	00001	B

DRN. <i>M. Haller</i>	DATE 4-24-67
CHK'D <i>[Signature]</i>	DATE 5/15/67
APP. <i>[Signature]</i>	DATE 5/15/67
PROD.	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

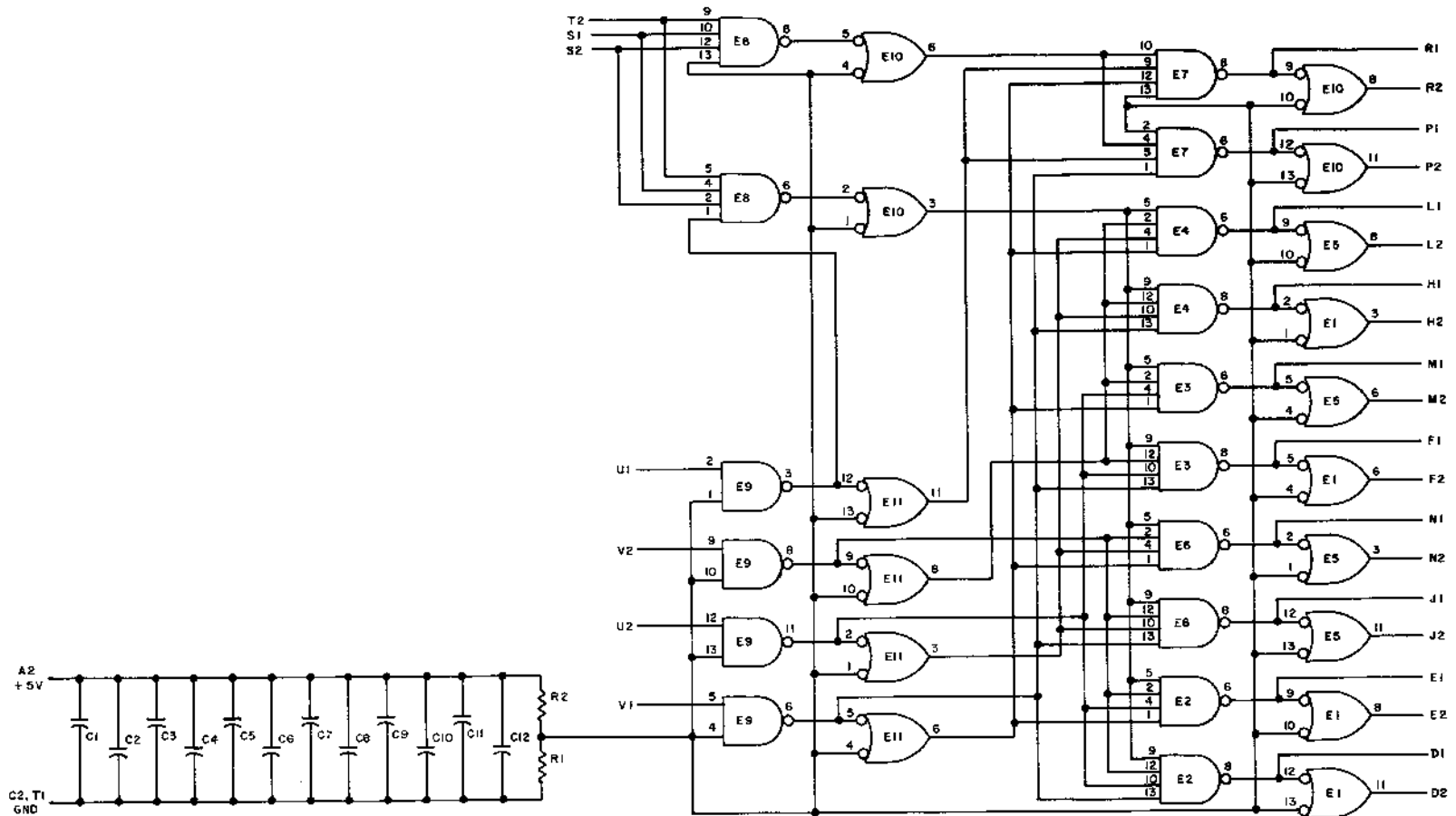
digital
 EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

TITLE GATE MODULE M160			
SIZE B	CODE CS	NUMBER M160-0-1	REV. B
PRINTED CIRCUIT REV.			

PINK

DIST. 324 434 435

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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, E8, 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
REFERENCE DESIGNATION	PARTS LIST	A-PL-M161-0-0
	DESCRIPTION	PART NO.

PARTS LIST		PARTS LIST	
DRN	DATE	DEC	EIA
DESIGNED BY	DATE	DEC	EIA
CHK'D BY	DATE		
ENG	DATE		
PROD	DATE		

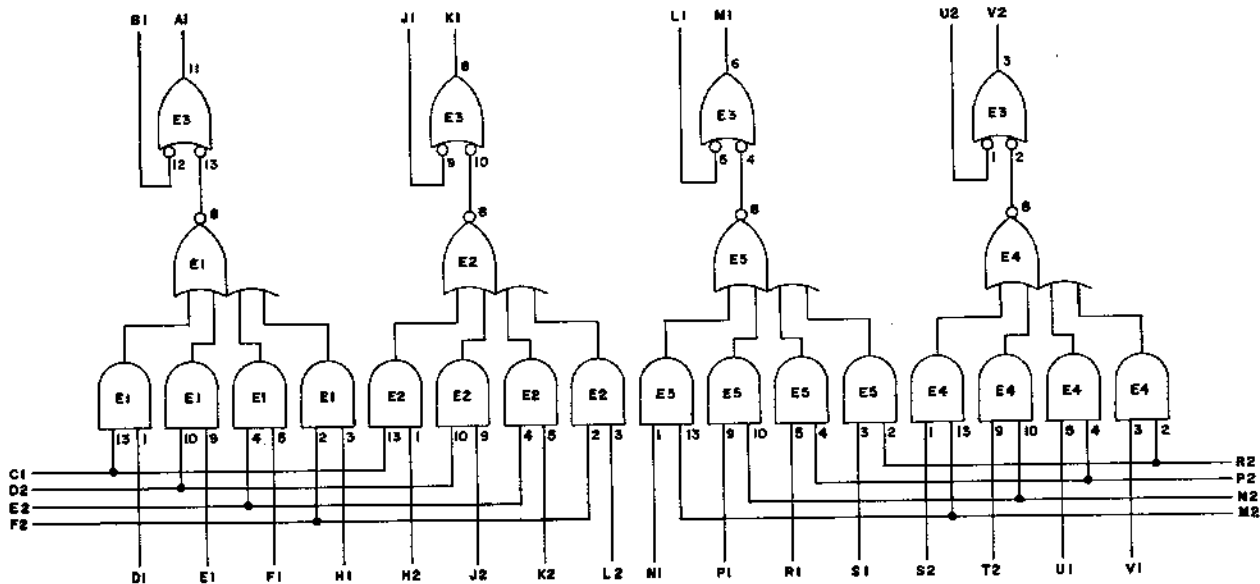
digital EQUIPMENT CORPORATION
 BINARY TO OCTAL/DECIMAL DECODER M161
 SIZE CODE NUMBER REV
 C CS M161-0-1 B
 PRINTED CIRCUIT REC. C

REV.	DATE	BY	CHK'D BY
A	5/17/67	M. Waller	
B	5/17/67		

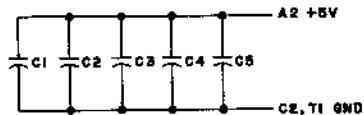
DEC FORM NO. 100
CPC 100

SIZE CODE NUMBER
C CS M161-0-1 REV. B

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



E3	INTEGRATED CKT. DEC7400H	1905579
E1, E2, E4, E5	INTEGRATED CKT. DEC7453N	1905582
C1 THRU C5	CAP. .01MFD 100V 20% DIBC	100H10
	PARTS LIST	A-PL-M169-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

REVISIONS
CHKD
DATE

DATE 11-8-67
CHKD
DATE
DATE
DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EMA	DEC	EMA

digital
EQUIPMENT CORPORATION
MAYFORD, MASSACHUSETTS

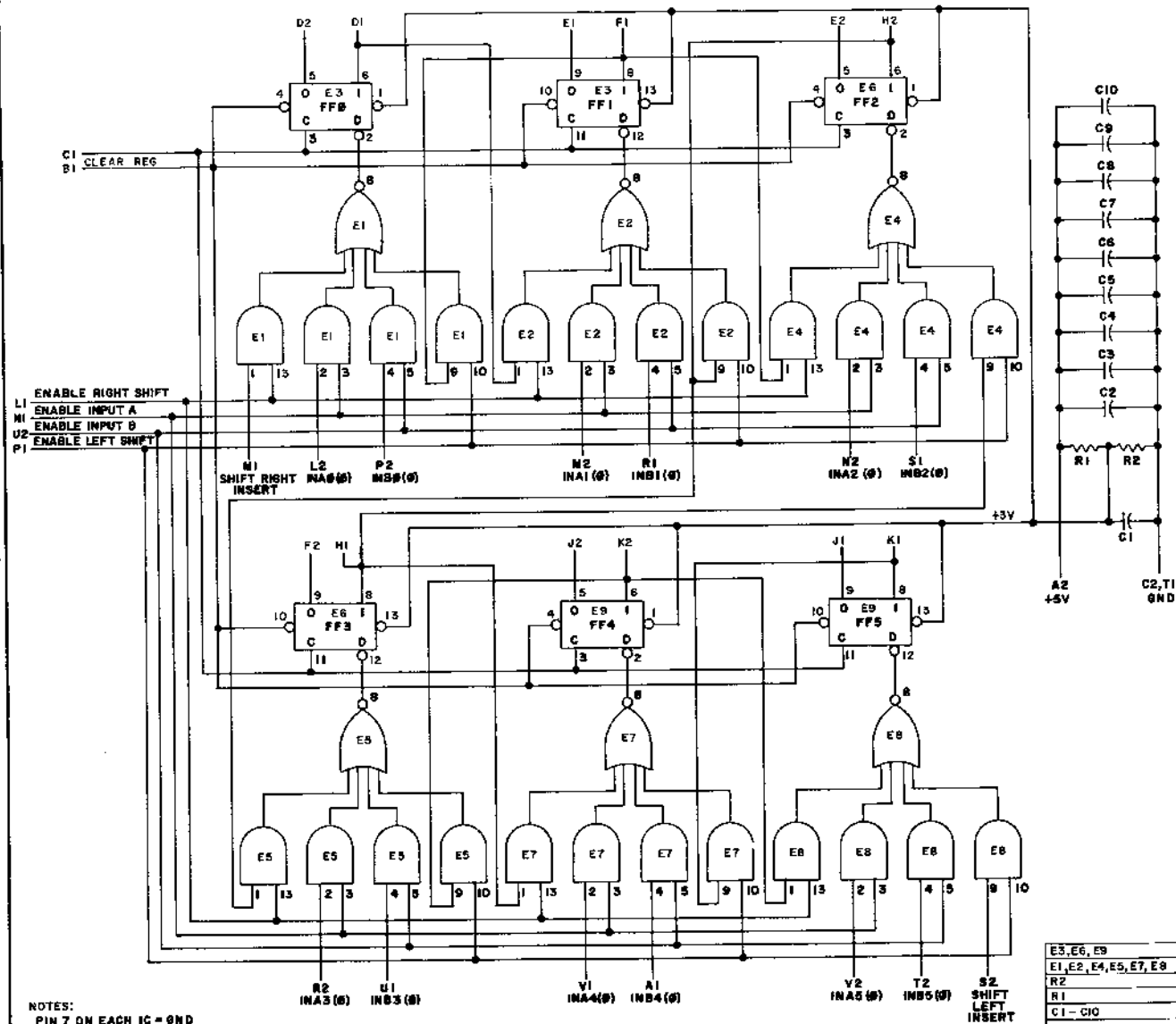
TITLE
GATING MODULE M169
SIZE CODE NUMBER
C CS M169-0-1
PRINTED CIRCUIT REV. [B]

DEC FORM NO
DEC 1967

DIST: 324 454 945 / PINK

REV. NUMBER
C CS M169-0-1

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

E5, E6, E9	INTEGRATED CKT. DEC7453N	1905547
E1, E2, E4, E5, E7, E8	INTEGRATED CKT. DEC7453N	1905582
R2	RES. 3K 1/4W 5% CC	1300432
R1	RES. 1.5K 1/4W 5% CC	1300391
C1 - C10	CAP. .01MFD 100V 20% DISC	1001610
	PARTS LIST	A-PL-M212-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

REV.	CHG	NO.	REV.

DRN. <i>De Winter</i>	DATE <i>11-19-67</i>
CHKD. <i>S. S. S. S.</i>	DATE <i>11-19-67</i>
ENG. <i>R. S. S. S.</i>	DATE <i>11-19-67</i>
PROD. <i>Z</i>	DATE

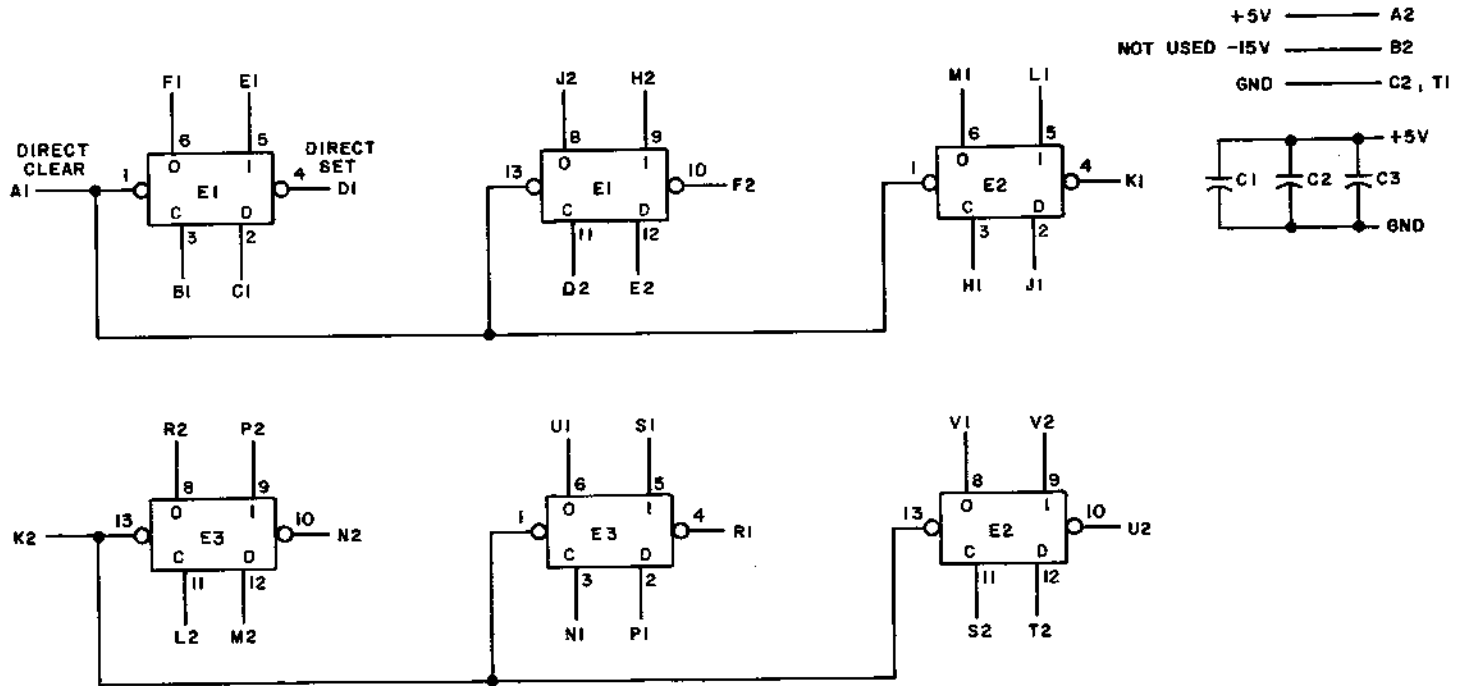
TRANSISTOR & DIODE CONVERSION CHART	
DEC	EIA

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE	6 BIT L-R SHIFT REGISTER M212
	SIZE	C CS
PRINTED CIRCUIT REV.	NUMBER	M212-0-1
	REV.	B

REV. B
NUMBER
M212-0-1
C CS

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

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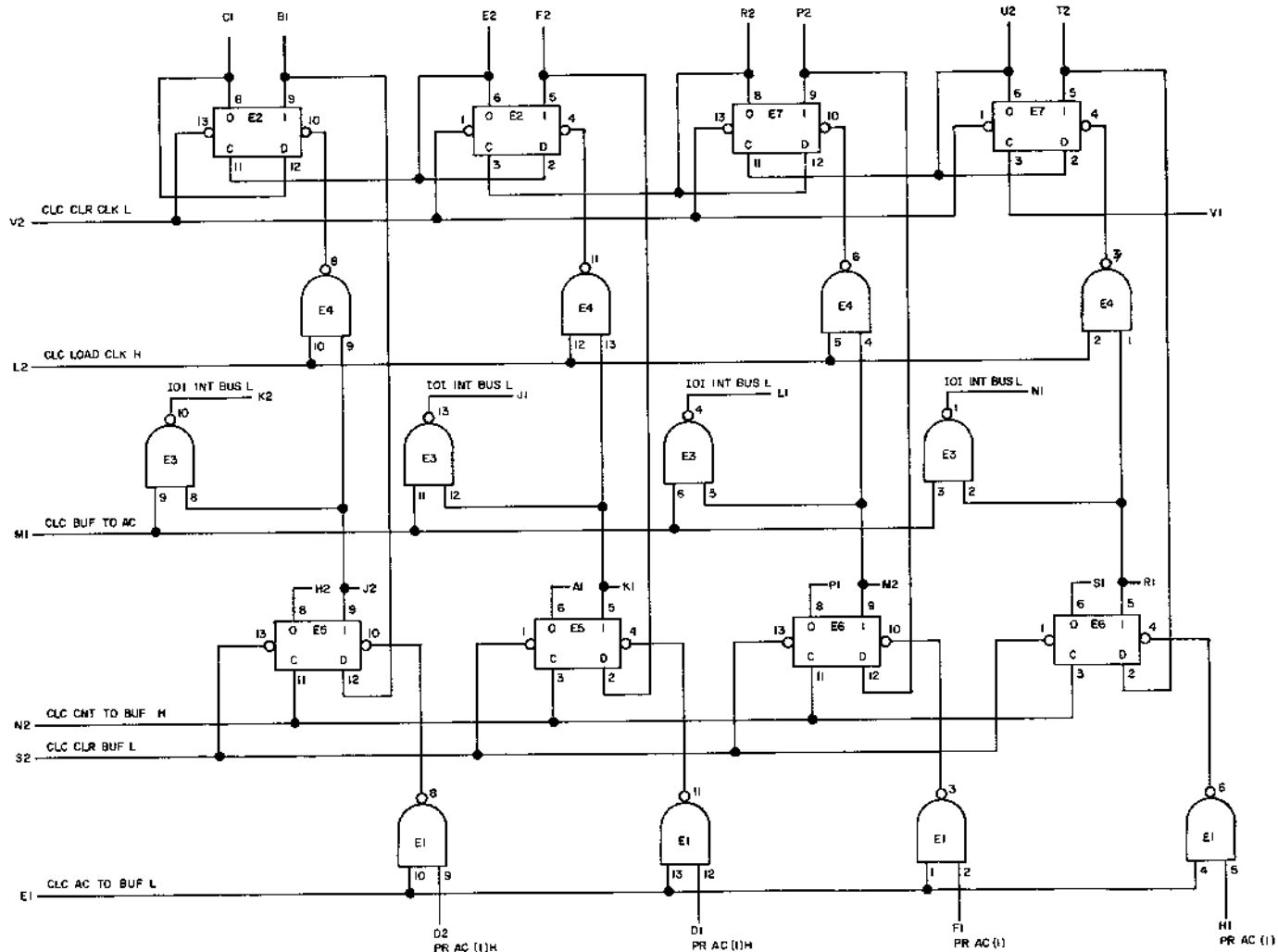


NOTES:
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V

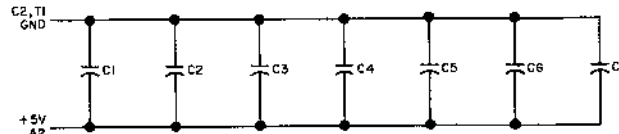
E1 THRU E3	INTEGRATED CKT. DEC7474N	1905547
C1 THRU C3	CAP. .01 MFD 100V 20% DISC	10016 10
	PARTS LIST	A-PL-M216-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.
PARTS LIST		

REVISIONS CHG NO. REV. 8806 A 00001 B	DRN <i>M. Waller</i> CHW'D <i>[Signature]</i> ENR <i>[Signature]</i> PROD.	DATE 4-18-67 DATE 4-12-67 DATE 4-12-67 DATE	TRANSISTOR & DIODE CONVERSION CHART DEC EIA DEC EIA	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE SIX FLIP-FLOPS M216
	SIZE CODE NUMBER REV. B CS M216-0-1 B				PRINTED CIRCUIT REV. C
	DIST. 324 434 435 5/				PINK
	DEC FORM NO. DRB 102				

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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. NUMBER
 M217-0-1

REV.	CHG.	NO.

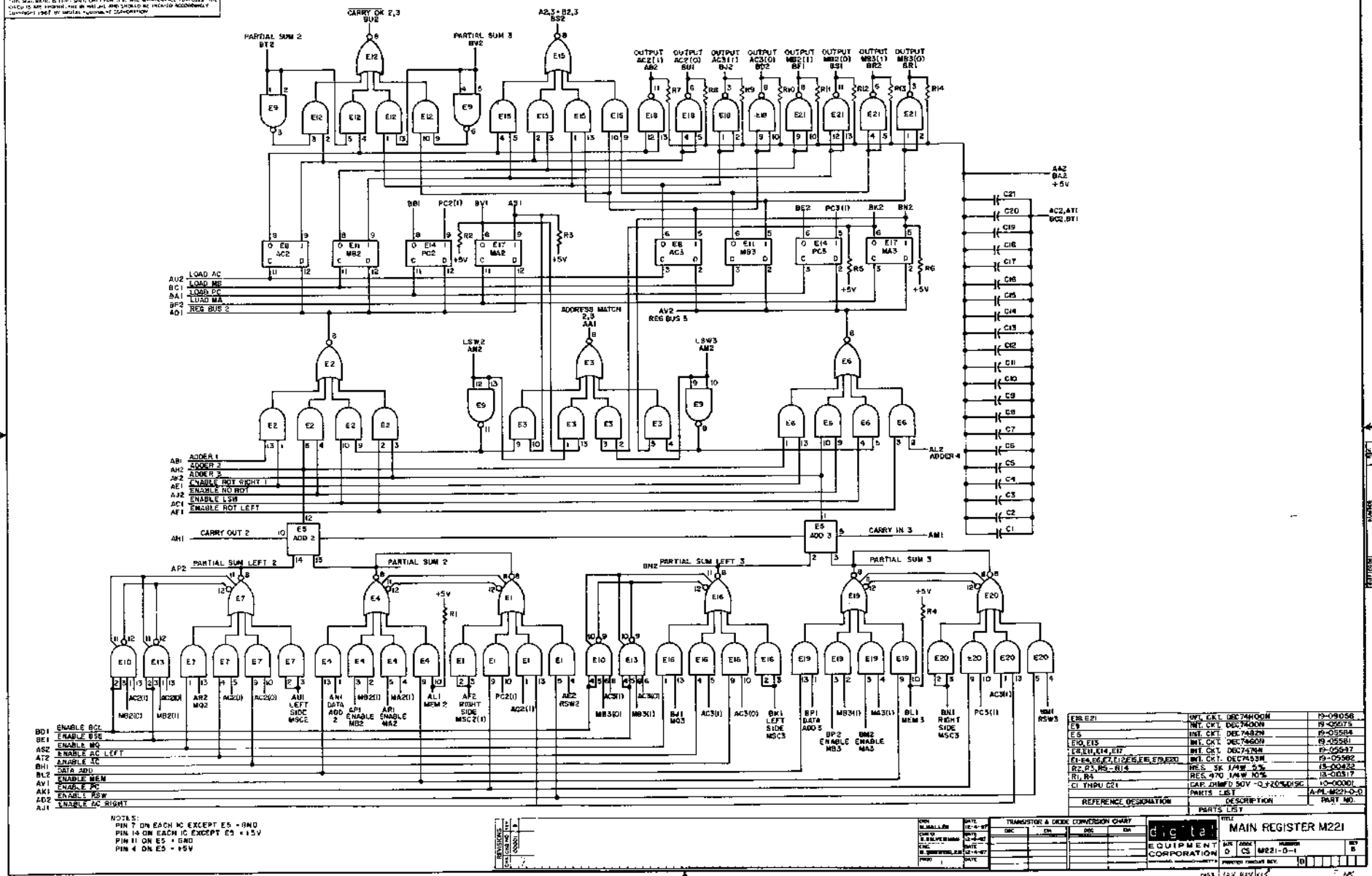
DRN R. BUTLER	DATE 11/26/69
CHK'D J. A. Adelle	DATE 11/26/69
ENGR R. Schumler	DATE 11/26/69
PRD R. Schumler	DATE 11/26/69

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital
 EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

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

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NOTES:
PIN 7 ON EACH IC EXCEPT E5 - GND
PIN 14 ON EACH IC EXCEPT E5 +15V
PIN 11 ON E5 + GND
PIN 4 ON E5 +15V

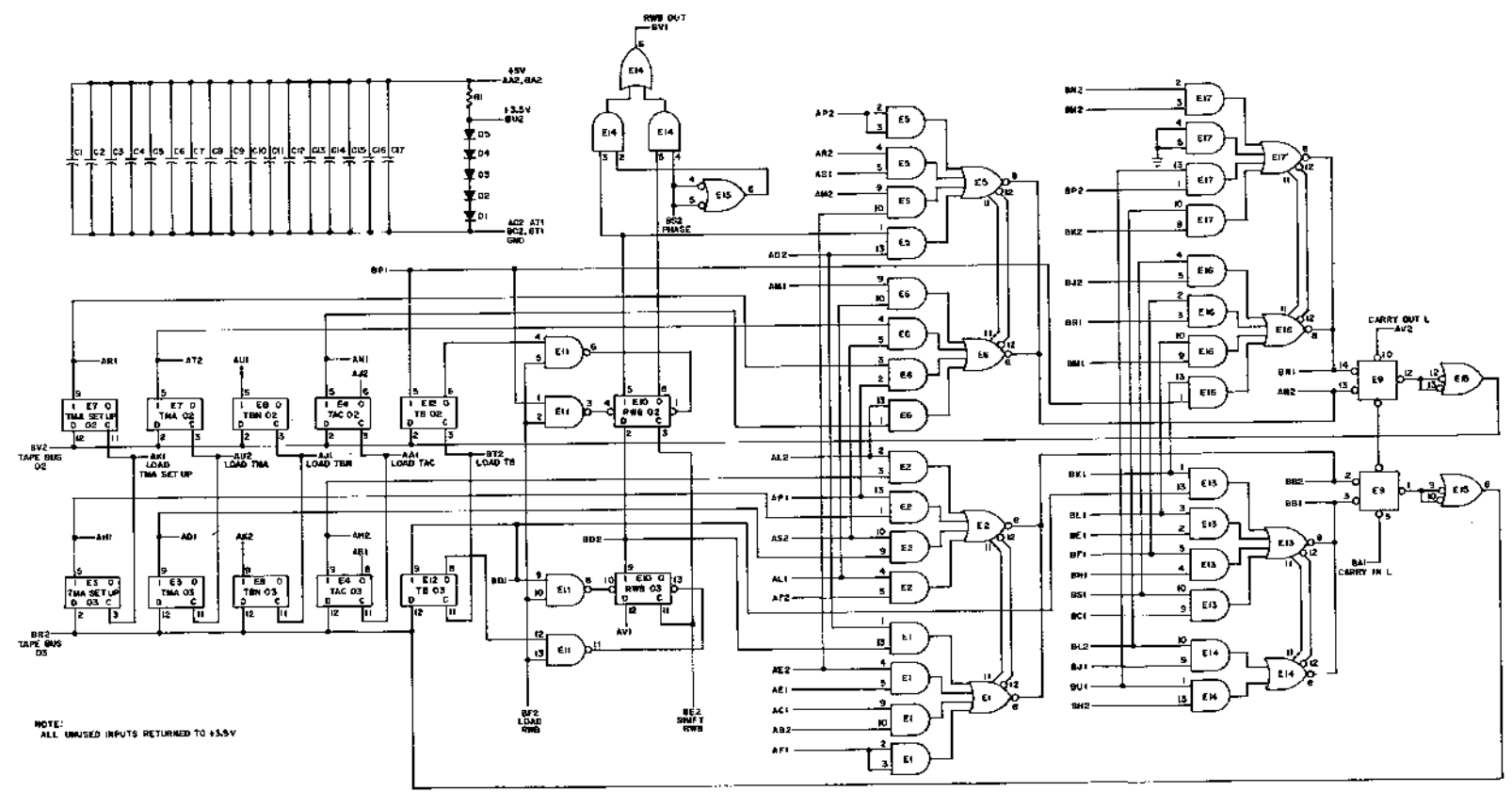
REF. DESI	QTY. CRT.	DEC. 7400M	19-09058
E5	INT. CRT.	DEC. 7400N	19-05675
F1	INT. CRT.	DEC. 7402N	19-05844
F2	INT. CRT.	DEC. 7402N	19-05844
F3	INT. CRT.	DEC. 7402N	19-05844
F4	INT. CRT.	DEC. 7402N	19-05844
E1-E4, E6, E7, E12, E15, E16, E19, E20	INT. CRT.	DEC. 7413M	19-05962
E5, E11, E14, E17	INT. CRT.	DEC. 7413M	19-05962
E18, E19, E21, E22, E23, E24, E25, E26, E27, E28, E29, E30, E31, E32, E33, E34, E35, E36, E37, E38, E39, E40, E41, E42, E43, E44, E45, E46, E47, E48, E49, E50, E51, E52, E53, E54, E55, E56, E57, E58, E59, E60, E61, E62, E63, E64, E65, E66, E67, E68, E69, E70, E71, E72, E73, E74, E75, E76, E77, E78, E79, E80, E81, E82, E83, E84, E85, E86, E87, E88, E89, E90, E91, E92, E93, E94, E95, E96, E97, E98, E99, E100	INT. CRT.	DEC. 7413M	19-05962
R1, R2	RES. 5K 1/4W 5%		18-00422
R3, R4	RES. 470 1/4W 5%		18-00317
C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20	CAP. 20MFD 50V 2.250500SG		10-00001
	PARTS LIST		A-PL-M221-D-0
	DESCRIPTION		PART NO.

REV.	DATE	TRANSISTOR & DIODE CONVERSION CHART	REV.
1	12-4-67		1
2	12-4-67		2
3	12-4-67		3
4	12-4-67		4
5	12-4-67		5
6	12-4-67		6
7	12-4-67		7
8	12-4-67		8
9	12-4-67		9
10	12-4-67		10

MAIN REGISTER M221

EQUIPMENT CORPORATION
D. C. S. M221-D-1

THIS SCHEMATIC IS PROVIDED ONLY FOR TEST AND MAINTENANCE PURPOSES. THE COMPLETE AND ACCURATE INFORMATION ON PARTS AND SHOULD BE TREATED ACCORDING TO COMPANY STANDARDS BY THE QUALITY CONTROL DEPARTMENT.



NOTE:
ALL UNUSED INPUTS RETURNED TO +5.5V

REF. DES.	DESCRIPTION	QTY.
D1-D5	DIODE 06A2	1100113
E14	INTEGRATED CNT. 681480M	1905980
E14A, E14B, E14C, E14D, E14E, E14F	INTEGRATED CNT. 681480M	1905982
E14G	INTEGRATED CNT. 681480M	1905975
E9	INTEGRATED CNT. 681480M	1905984
E14E, E14EAD, E14E, E14E	INTEGRATED CNT. 681480M	1905984
G1	RES. 220 OHM 5% 1/4W	1900927
C1 - C17	CAP. 0.1 MFD 50V 20% DISC	1000640

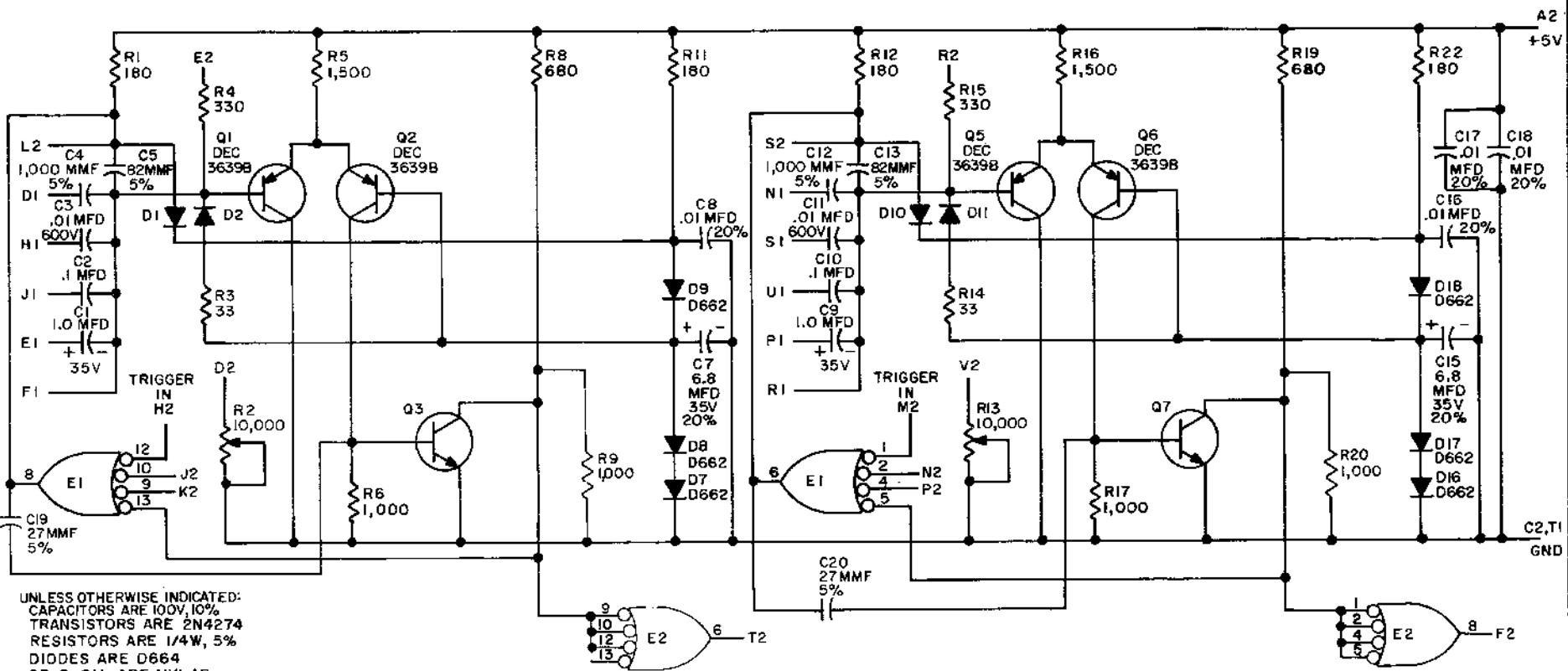
REF. DES.	DESCRIPTION	QTY.
PARTS LIST		
LINC TAPE REGISTER M222		
EQUIPMENT		
CORPORATION		
M222-0-1		
DATE		
BY		

TRANSISTOR & DIODE CONVERSION CHART	TRANSISTOR	DIODE
7400	2N3904	1N4148
7401	2N3904	1N4148
7402	2N3904	1N4148
7403	2N3904	1N4148
7404	2N3904	1N4148
7405	2N3904	1N4148
7406	2N3904	1N4148
7407	2N3904	1N4148
7408	2N3904	1N4148
7409	2N3904	1N4148
7410	2N3904	1N4148
7411	2N3904	1N4148
7412	2N3904	1N4148
7413	2N3904	1N4148
7414	2N3904	1N4148
7415	2N3904	1N4148
7416	2N3904	1N4148
7417	2N3904	1N4148
7418	2N3904	1N4148
7419	2N3904	1N4148
7420	2N3904	1N4148
7421	2N3904	1N4148
7422	2N3904	1N4148
7423	2N3904	1N4148
7424	2N3904	1N4148
7425	2N3904	1N4148
7426	2N3904	1N4148
7427	2N3904	1N4148
7428	2N3904	1N4148
7429	2N3904	1N4148
7430	2N3904	1N4148
7431	2N3904	1N4148
7432	2N3904	1N4148
7433	2N3904	1N4148
7434	2N3904	1N4148
7435	2N3904	1N4148
7436	2N3904	1N4148
7437	2N3904	1N4148
7438	2N3904	1N4148
7439	2N3904	1N4148
7440	2N3904	1N4148
7441	2N3904	1N4148
7442	2N3904	1N4148
7443	2N3904	1N4148
7444	2N3904	1N4148
7445	2N3904	1N4148
7446	2N3904	1N4148
7447	2N3904	1N4148
7448	2N3904	1N4148
7449	2N3904	1N4148
7450	2N3904	1N4148
7451	2N3904	1N4148
7452	2N3904	1N4148
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7456	2N3904	1N4148
7457	2N3904	1N4148
7458	2N3904	1N4148
7459	2N3904	1N4148
7460	2N3904	1N4148
7461	2N3904	1N4148
7462	2N3904	1N4148
7463	2N3904	1N4148
7464	2N3904	1N4148
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7466	2N3904	1N4148
7467	2N3904	1N4148
7468	2N3904	1N4148
7469	2N3904	1N4148
7470	2N3904	1N4148
7471	2N3904	1N4148
7472	2N3904	1N4148
7473	2N3904	1N4148
7474	2N3904	1N4148
7475	2N3904	1N4148
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7493	2N3904	1N4148
7494	2N3904	1N4148
7495	2N3904	1N4148
7496	2N3904	1N4148
7497	2N3904	1N4148
7498	2N3904	1N4148
7499	2N3904	1N4148
7500	2N3904	1N4148

REV. 10/62

SIZE B CS M302-0-1 REV. K

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UNLESS OTHERWISE INDICATED:
 CAPACITORS ARE 100V, 10%
 TRANSISTORS ARE 2N4274
 RESISTORS ARE 1/4W, 5%
 DIODES ARE D664
 C3 & C11 ARE MYLAR
 E1 IS DEC74H40N
 PIN 7 ON IC'S = GND
 PIN 14 ON IC'S = +5V
 R2 & R13 ARE HELITRIM POT #78PR
 1.0MFD CAPACITORS ARE TANTALUM
 E2 IS DEC7413N

PARTS LIST A-PL-M302-0-0

REV.	CHK	NO.	REV.	B	C	D	E	F	G	H	J	K
1	5507											
2	6719											
3	6881											
4	7077											
5	00001											
6	00002											
7	00003											

DRN. <i>Dr. Waller</i>	DATE 6-15-67
CHK'D <i>[Signature]</i>	DATE 6/21/67
ENG. <i>[Signature]</i>	DATE 6/21/67
PROD. <i>[Signature]</i>	DATE

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

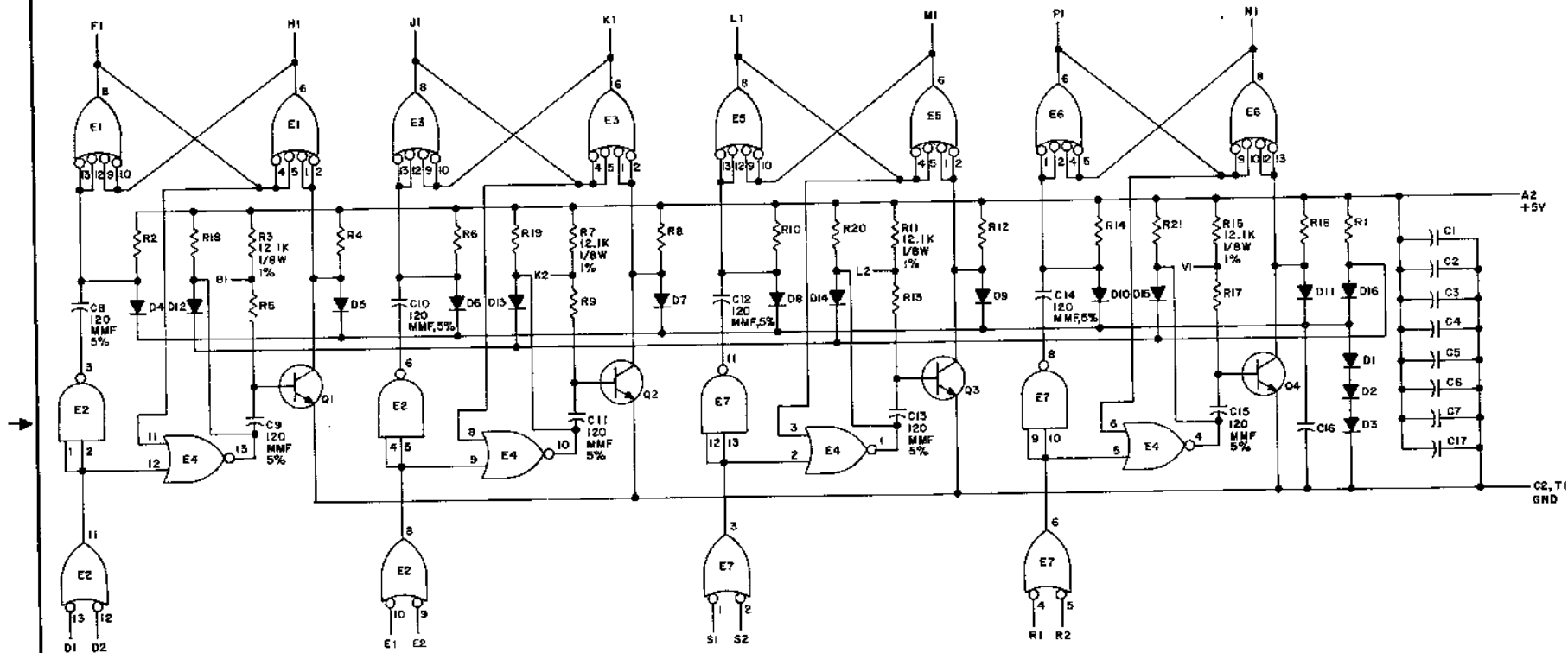
digital
 EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

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

DEC FORM NO. DRB 102

PINK DIST. 324/434/435 5

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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 .01MFD, 100V, 20%

REV. A
 NUMBER
 CS M304-0-1
 SEE PAGE
 C

REVISIONS

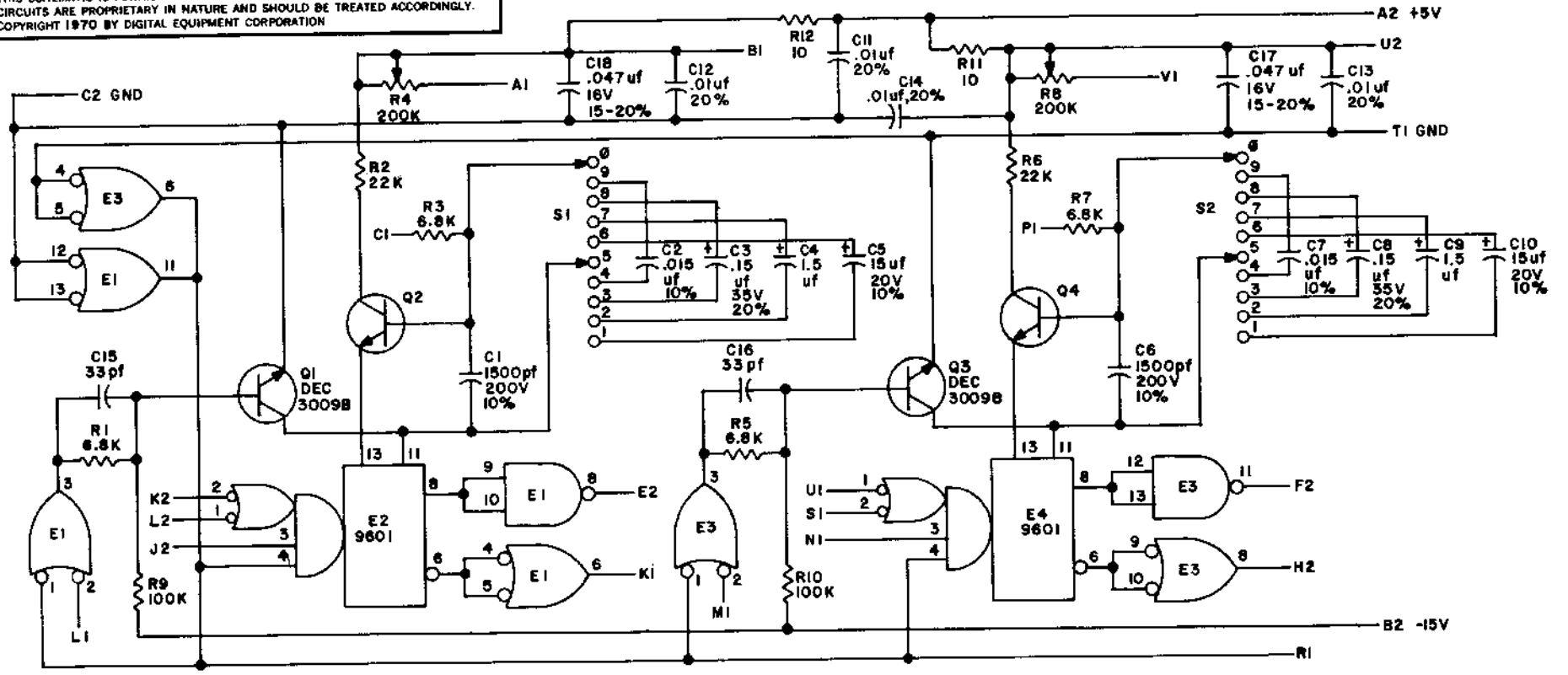
DATE	BY	REV.
4-22-67	M. Walker	A

DRN	DATE	TRANSISTOR & DIODE CONVERSION CHART			
CHK'D	DATE	DEC	EMA	DEC	EMA
ENG	DATE	D664	IN3606		
PROC.	DATE	DEC3009B	2N3009		

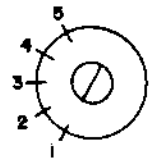
digital EQUIPMENT CORPORATION
 ONE SHOT DELAY M304
 SIZE CODE NUMBER REV
 C CS M304-0-1 A
 PRINTED CIRCUIT REV. B

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

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UNLESS OTHERWISE INDICATED:
 TRANSISTORS ARE 2N5068
 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

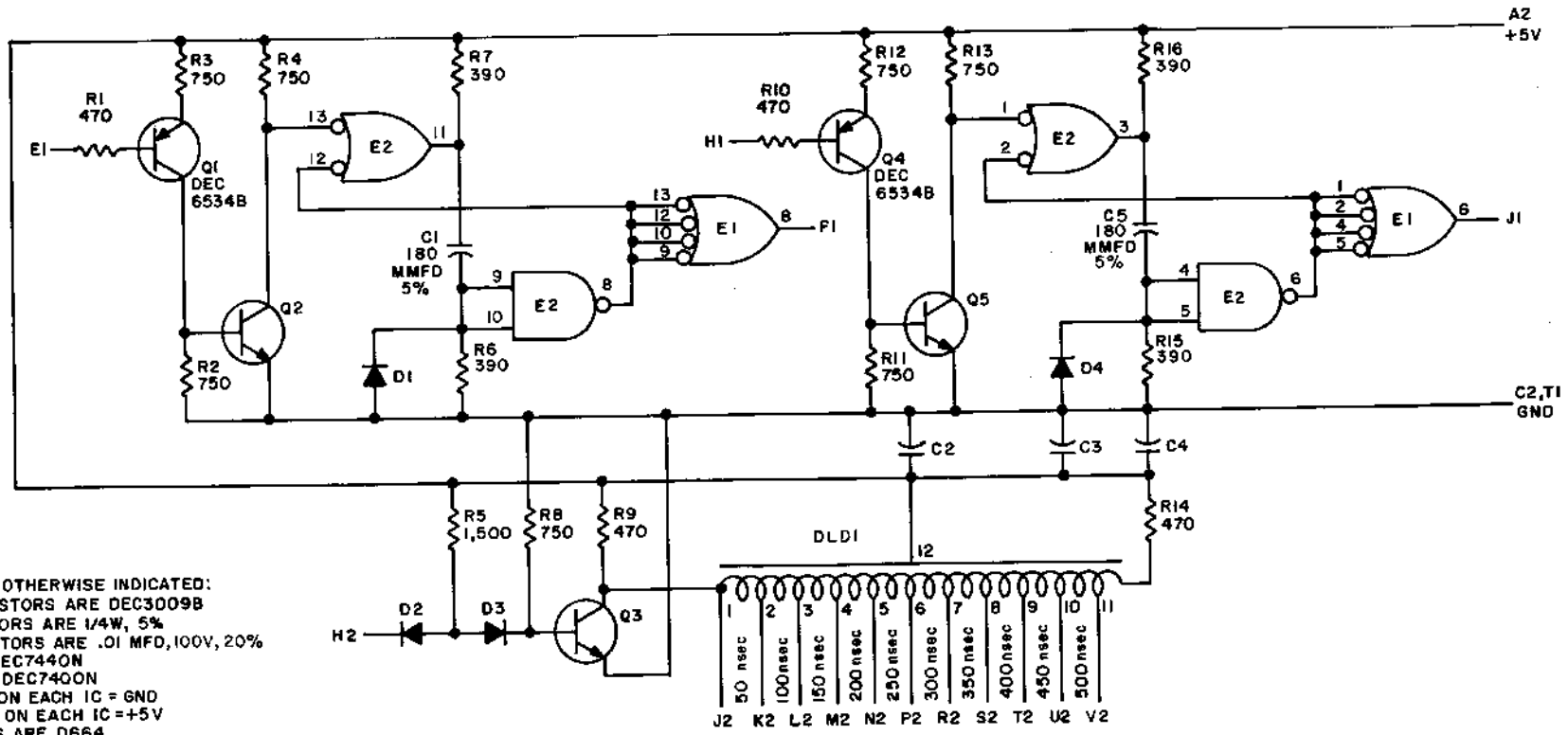


- RANGE 5 5 μ sec. — 50 μ sec.
 4 50 μ sec. — 500 μ sec.
 3 500 μ sec. — 5 msec.
 2 5 msec. — 50 msec.
 1 50 msec. — 500 msec.

REVISIONS CHK'D NO. REV. MH 00001 A REV. IN RED 2 00002 B	DRN. N. HALLER	DATE 9-3-69	TRANSISTOR & DIODE CONVERSION CHART				digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE INTEGRATING ONE SHOT M307			
	CHK'D A. YAUGA	DATE 9-3-69	DEC	EIA	DEC	EIA		SIZE B	CODE CS	NUMBER M307-0-1	REV. B
	ENG. R. SCHWELER	DATE 9-4-69	DEC 3009B	2N3009							
	PROD. R. SCHWELER	DATE 9-4-69	2N5068	NONE							

5 PINK DIST. 324, 434, 435 3

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UNLESS OTHERWISE INDICATED:
 TRANSISTORS ARE DEC3009B
 RESISTORS ARE 1/4W, 5%
 CAPACITORS ARE .01 MFD, 100V, 20%
 E1 IS DEC7440N
 E2 IS DEC7400N
 PIN 7 ON EACH IC = GND
 PIN 14 ON EACH IC = +5V
 DIODES ARE D664
 DLDI IS DEC16-05530

REV	CHK	CHG	NO	REV

DRN. <i>M. Haller</i>	DATE 4-7-67
CHK'D <i>[Signature]</i>	DATE 2.5.67
ENG. <i>[Signature]</i>	DATE 5/5/67
PROD. <i>[Signature]</i>	DATE

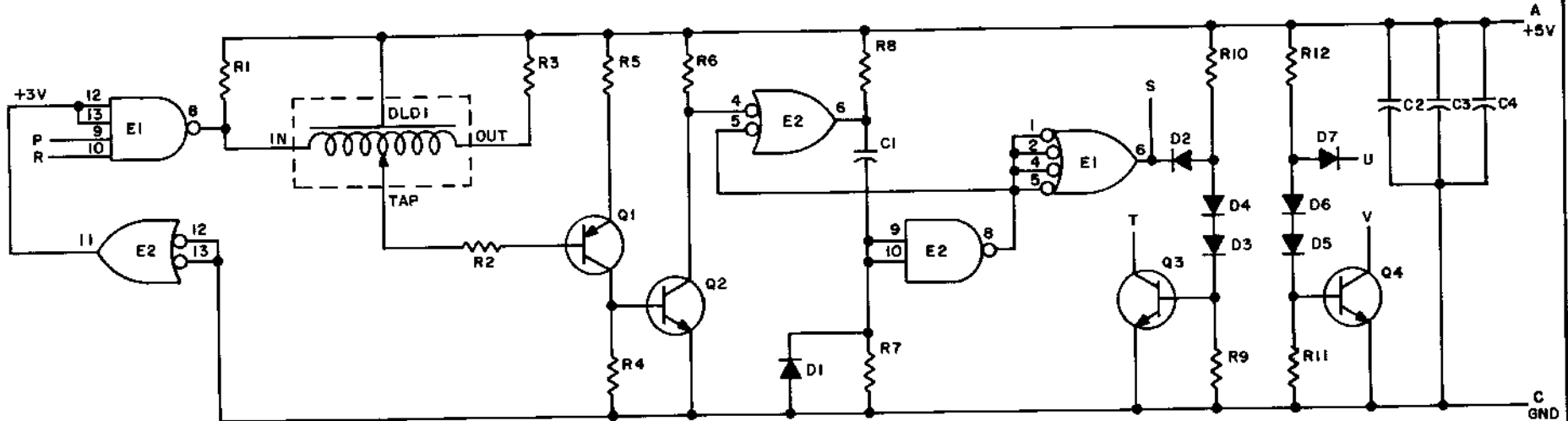
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3009B	2N3009		
DEC6534B	MPS6334		
D662	1N645		
D664	1N3606		

digital
 EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

TITLE DELAY LINE M310			
SIZE B	CODE CS	NUMBER M310-0-1	REV D
PRINTED CIRCUIT REV C			

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. DEC7400N	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 LIST	A-PL-M360-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

REVISIONS	CHK	CHG NO.	REV.
		697B	A
		705B	B
		00001	

DRN.	DATE
<i>M. Waller</i>	3-31-67
CHK'D	DATE
<i>[Signature]</i>	3/31/67
ENGR.	DATE
<i>[Signature]</i>	3/31/67
PROD.	DATE

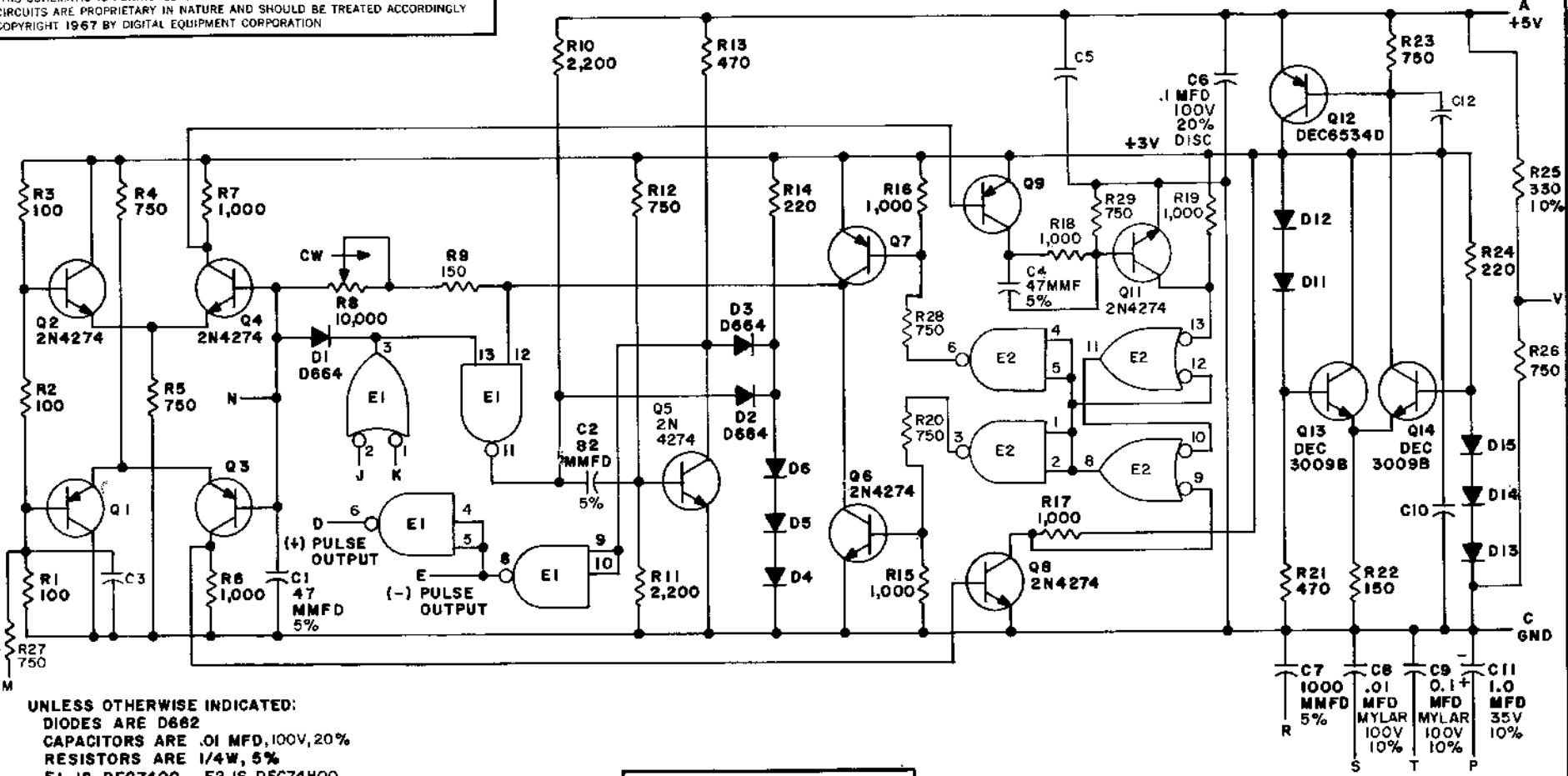
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3009B	2N3009		
DEC6534B	MP6534		
D664	1N5606		

digital
 EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

TITLE			
VARIABLE DELAY M360			
SIZE	CODE	NUMBER	REV.
B	CS	M360-0-1	B
PRINTED CIRCUIT REV.			AB

REV N
 NUMBER M401-0-1
 CS B
 SIZE

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UNLESS OTHERWISE INDICATED:
 DIODES ARE D662
 CAPACITORS ARE .01 MFD, 100V, 20%
 RESISTORS ARE 1/4W, 5%
 E1 IS DEC7400, E2 IS DEC7400
 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

REVISIONS	CHK	CHG NO	REV
1	A	6789	A
2	B	8844	B
3	C	00001	C
4	D	00002	D
5	E	00003	E
6	F	00004	F
7	G	00005	G
8	H	00006	H
9	I	00007	I
10	J	00008	J

DRN.	DATE
<i>M. Waller</i>	9-11-67
CHK'D	DATE
<i>A. Suber...</i>	9/13/67
ENG	DATE
<i>J.P. Miller</i>	9/13/67
PROD.	DATE

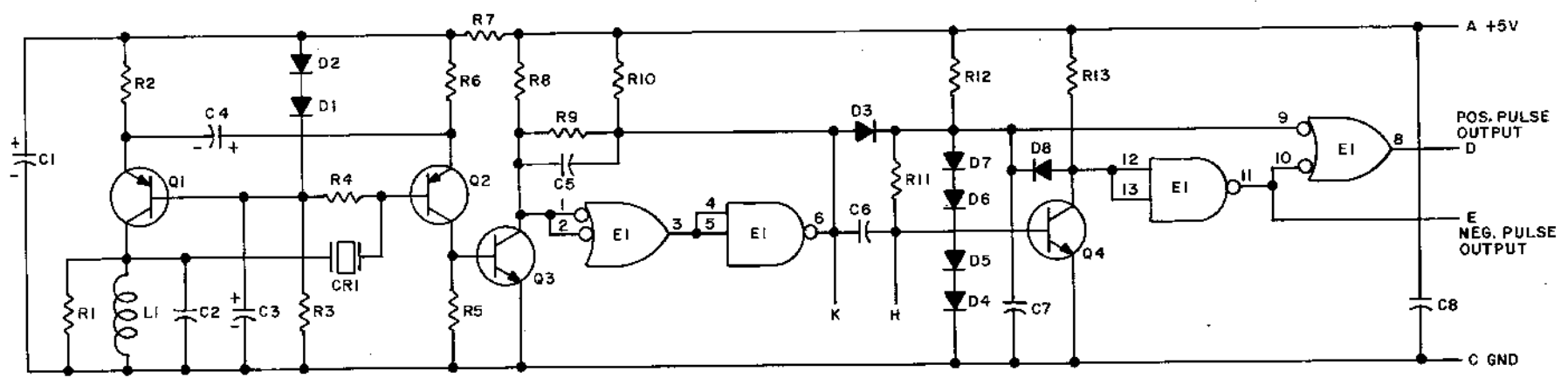
TRANSISTOR & DIODE CONVERSION CHART			
DEC		EIA	
DEC3009B	2N3009	D662	1N645
DEC4258	2N4258	D664	1N3606
2N4274	SAME		
DEC6534D	MPS6534		

digital
 EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

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

B SIZE
 CS CODE
 M405-0-1 NUMBER
 REV.

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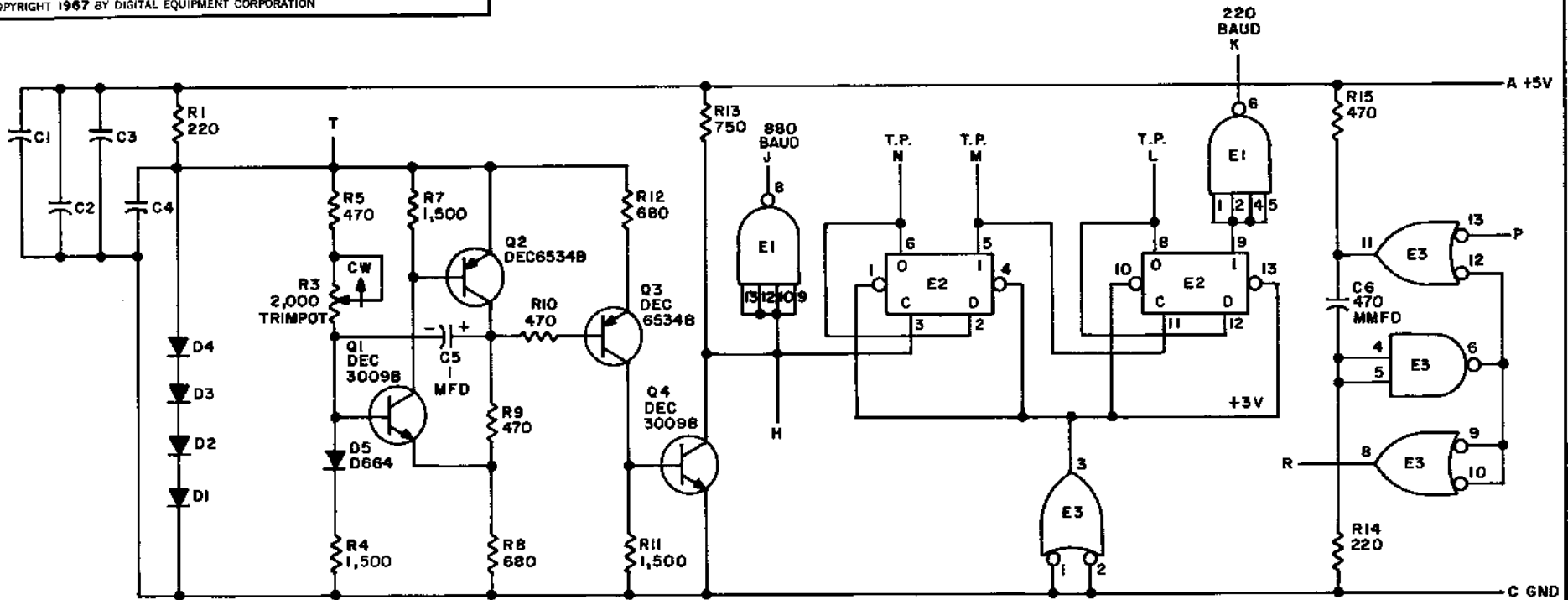


NOTES:
 1. PIN 14 ON IC = +5V
 2. PIN 7 ON IC = GND
 3. FOR VALUES OF C2, L1, CRI SEE DWG. CHART A-00517-2

R11, R12	RES. 390 1/4W 5% CC	I300309
C6	CAP. 120 MMF 100V 5% D.M.	I000018
L1, C2, CRI	SEE NOTE 3	
E1	INTEGRATED CKT. DEC7400N	I905575
Q3, Q4	TRANSISTOR DEC4274	I505302
Q1, Q2	TRANSISTOR DEC4258	I505321
R7	RES. 100 1/4W 10% CC	I300231
R4	RES. 100K 1/4W 10% CC	I300534
R3, R8, R10, R13	RES. 1K 1/4W 5% CC	I300365
R2, R5, R6, R9	RES. 2.2K 1/4W 10% CC	I300418
R1	RES. 10K 1/4W 10% CC	I300481
D3, D8	DIODE D664	I100114
D1, D2, D4 - D7	DIODE D662	I100113
C7, C8	CAP. .01MFD 100V 20% DISC	I001610
C5	CAP. 47 MMF 100V 5% D.M.	I000011
C1, C3, C4	CAP. 39 MFD 10V 10% S.TANT	I000076
PARTS LIST		A-PL-M405-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.
PARTS LIST		

REVISIONS CHK (C) NO. REV.	DRN. <i>M. Keller</i> DATE <i>4-17-68</i>	TRANSISTOR & DIODE CONVERSION CHART		digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE CRYSTAL CLOCK M405			
	CHK'D <i>[Signature]</i> DATE <i>[Date]</i>	DEC	EIA		SIZE	CODE	NUMBER	REV.
	ENG. <i>[Signature]</i> DATE <i>[Date]</i>	DEC4258	2N4258		B	CS	M405-0-1	
	PROD. DATE <i>[Date]</i>	DEC4274	NONE					
		D662	1N645	PRINTED CIRCUIT REV. <i>A</i>				
		D664	1N3606	DIST. <i>12/1/68 1/2</i>				

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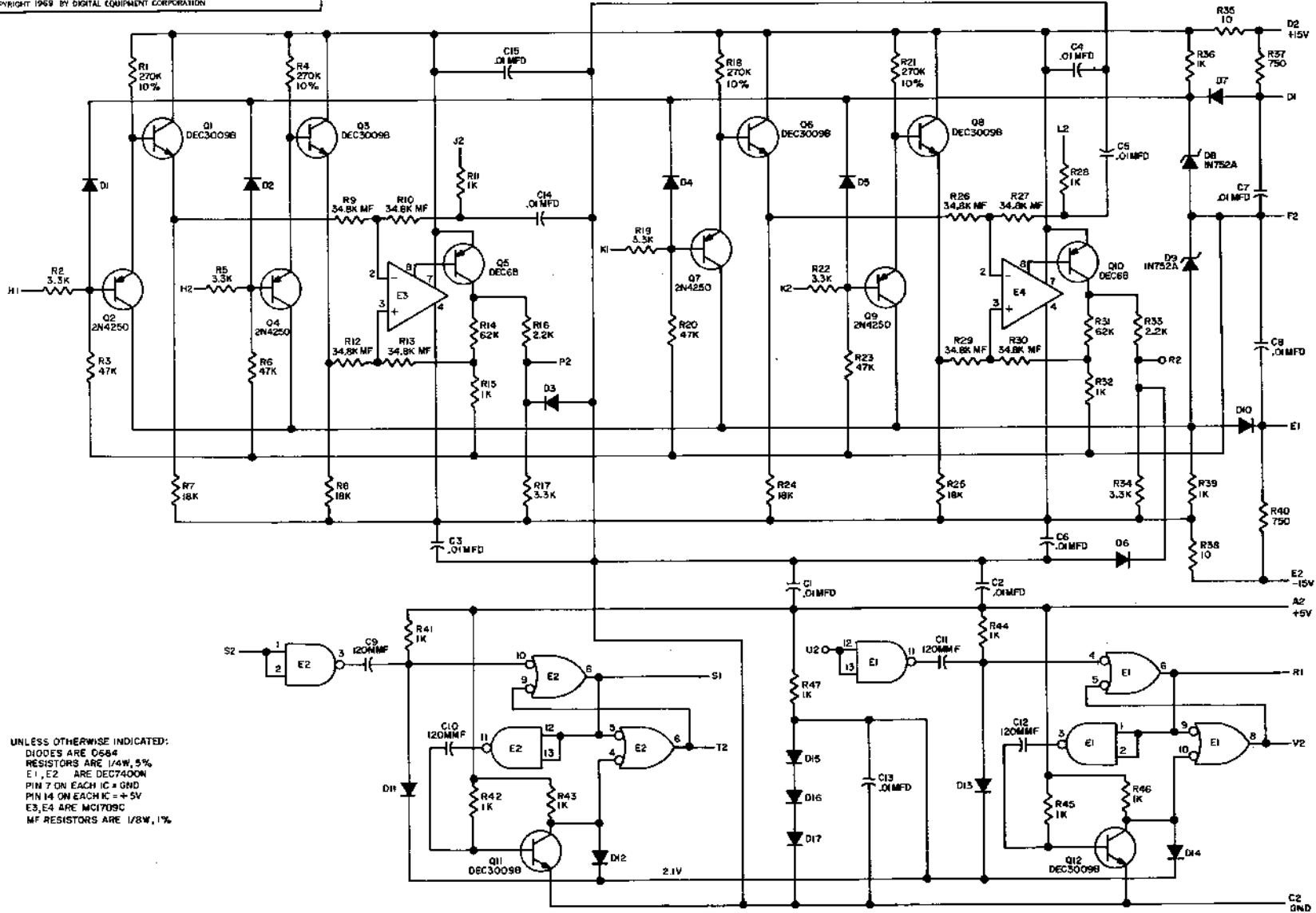


UNLESS OTHERWISE INDICATED:
 RESISTORS ARE 1/4 W, 5%
 CAPACITORS ARE .01 MFD
 C5 IS 35V, 10%, TANT.
 DIODES ARE D862
 E1 IS DEC7440N
 E2 IS DEC7474N
 E3 IS DEC7400N
 PIN 7 ON EACH IC = GND
 PIN 14 ON EACH IC = +5V
 R3 IS A #275P



REVISIONS CHK CHG NO. REV.	DRN. <i>m. Waller</i>	DATE <i>4-7-67</i>	TRANSISTOR & DIODE CONVERSION CHART				 EQUIPMENT CORPORATION NAYNARD, MASSACHUSETTS	TITLE VARIABLE CLOCK M452			
	CHK'D <i>[Signature]</i>	DATE <i>4/28/67</i>	DEC	EIA	DEC	EIA		SIZE B	CODE CS	NUMBER M452-0-1	REV. A
	ENG. <i>[Signature]</i>	DATE <i>4/28/67</i>	DEC3009B	2N3009							
	PRD. <i>[Signature]</i>	DATE	DEC6534B	MPS6534							
			D862	IN845							
			D864	IN3606							
PRINTED CIRCUIT REV. A											

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UNLESS OTHERWISE INDICATED:
 DIODES ARE 0684
 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. NUMBER
 M503-0-1

REVISIONS
 (DATE) (BY) (INITIALS)

DATE 5/1/69
 DATE 2/2/69
 DATE 12/20/69

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
0684	1N5206		
DEC3009B	2N3009		
2N4250	MC96		
IN752A	SAME		
DEC68	NONE		

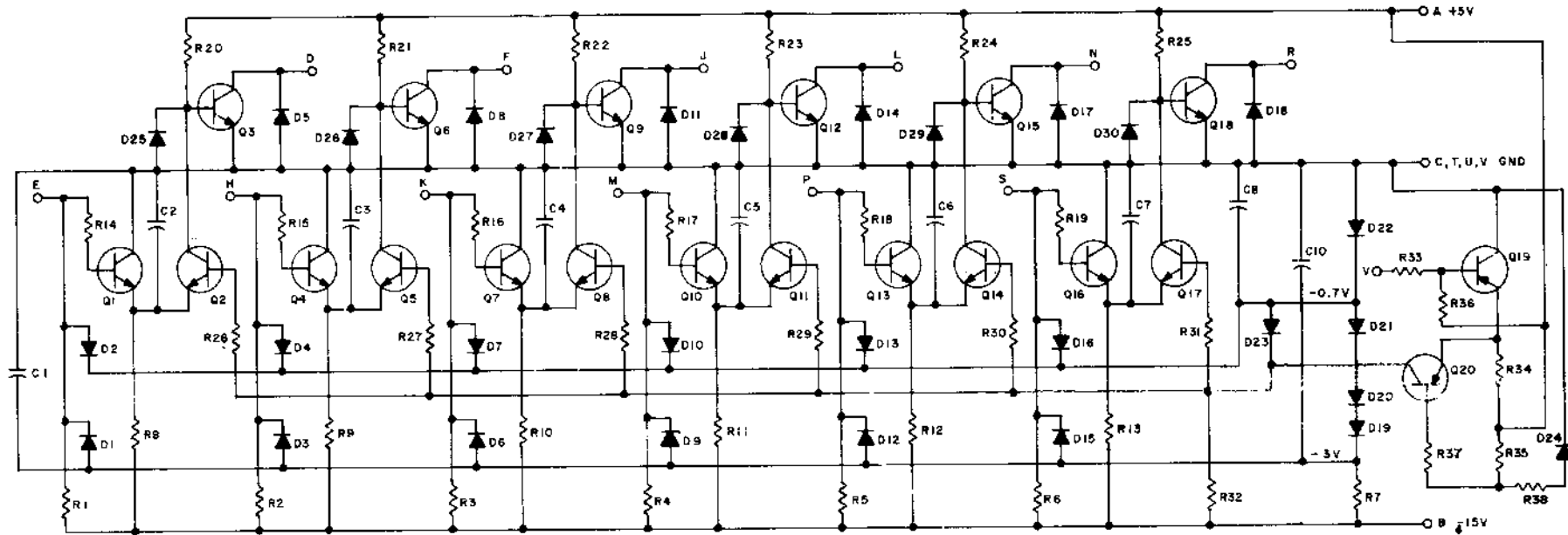
digital
 EQUIPMENT CORPORATION
 BATHURST, MASSACHUSETTS

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

DEC FORM NO. DDC 102

5 PINK DIST. 329, 439, 435

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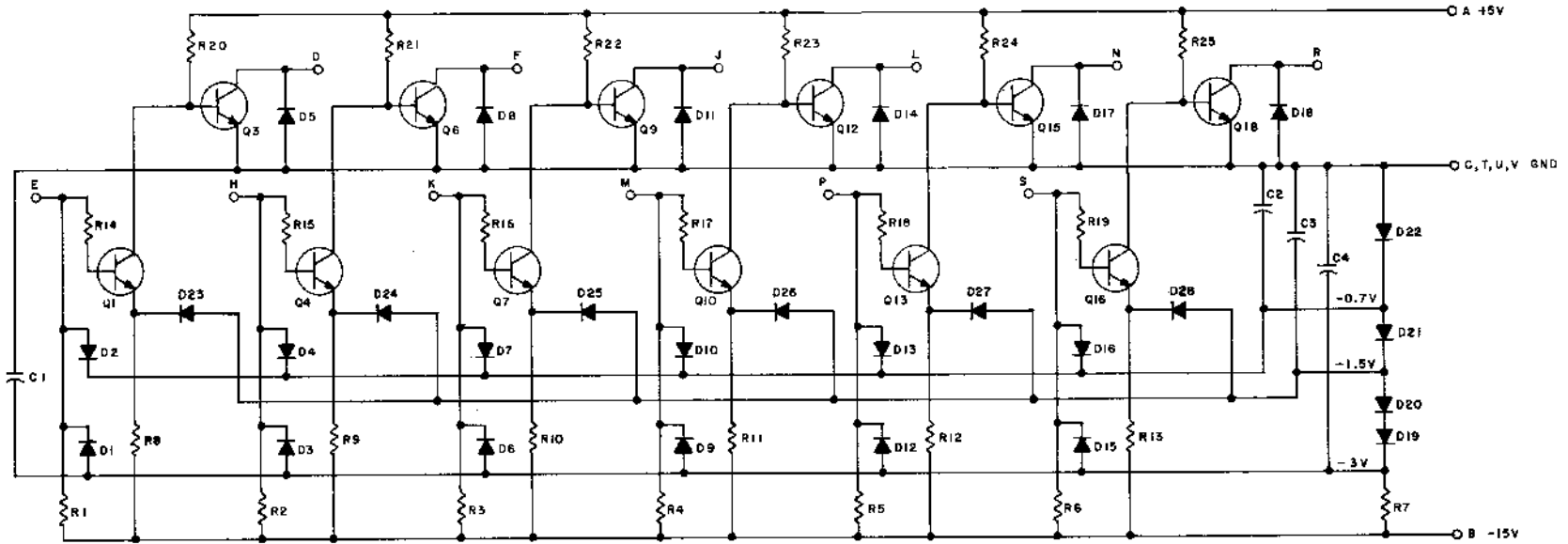


REV D
NUMBER
M507-0-1
CS

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 DEC2894-1B	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. 0.1 MFD 100V 20% DISC	1001610
D19-D22, D24	DIODE D852	1100113
D1-D8, D23, D25-D30	DIODE D864	1100114
	PARTS LIST	A-PL-M507-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

REVISIONS CHK'D BY (REV) 1. 00001 A 2. 00003 D	DESIGNED BY W. Muller DATE 8/25/68	DATE 8/25/68	TITLE BUS CONVERTER M507	SIZE C CS	CODE M507-0-1	NUMBER F	REV. D	
	CHECKED BY W. Muller DATE 9/4/68	DATE 9/4/68	EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	PRINTED CIRCUIT REV	F	F	F	
	ENG. DATE 9/4/68	DATE 9/4/68	DEC 30 09B IN 3008 DEC 30 09B IN 3008 DEC 30 09B IN 3008	EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	PRINTED CIRCUIT REV	F	F	F
	PROC. DATE	DATE	DEC 30 09B IN 3008 DEC 30 09B IN 3008 DEC 30 09B IN 3008	EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	PRINTED CIRCUIT REV	F	F	F

THIS SCHEMATIC IS FOR SHIP ONLY FOR TEST AND MAINTENANCE PURPOSES. THE CIRCUITS ARE PROPRIETARY IN NATURE AND SHOULD BE TREATED ACCORDINGLY. COPYRIGHT 1968 BY DIGITAL EQUIPMENT CORPORATION.



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

PARTS LIST		TITLE		
		BUS CONVERTER M508		
		SIZE	CODE	NUMBER
		C	CS	M508-0-1
		PRINTED CIRCUIT REV	C	

REV.	NO.	BY	DATE
1	1		

DRN	DATE	TRANSISTOR & DIODE CONVERSION CHART
Dr. Miller	9-27-68	
		DEC EIA
		DEC EIA
		DEC EIA

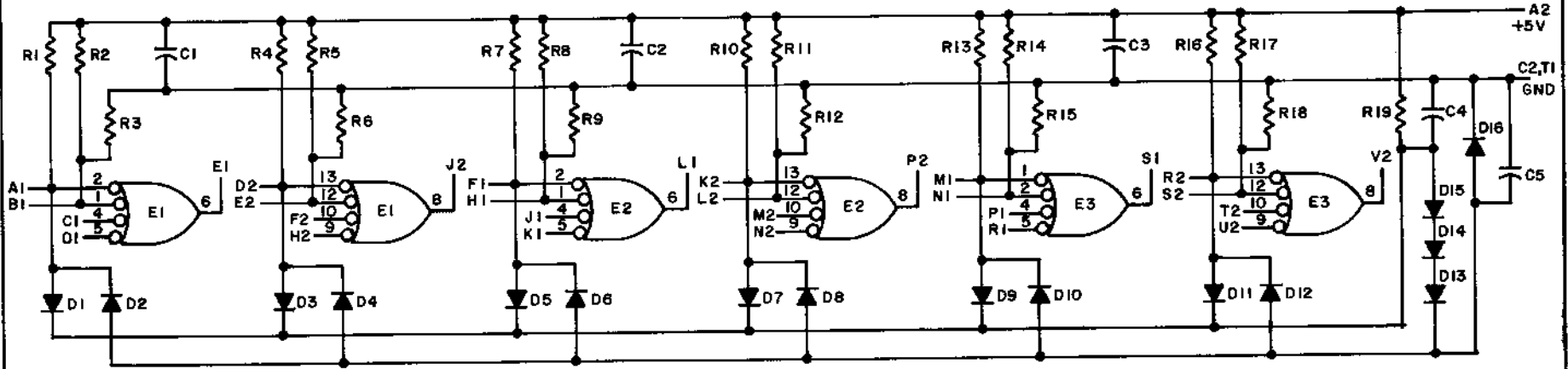
TRANSISTOR & DIODE CONVERSION CHART	DATE	DATE
DEC EIA	DEC EIA	DEC EIA
DEC EIA	DEC EIA	DEC EIA
DEC EIA	DEC EIA	DEC EIA

digital EQUIPMENT CORPORATION		TITLE	
		BUS CONVERTER M508	
SIZE	CODE	NUMBER	REV.
C	CS	M508-0-1	A
PRINTED CIRCUIT REV		C	

REV. NO. A
NUMBER
M508-0-1
SIZE CODE C CS

REV. 1-0-91GW
 NUMBER
 CS M516-0-1
 SIZE B
 CODE 000
 8
 1725

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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. .01MPD 100V 20% DISC	1001610
	PARTS LIST	A-PL-M516-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.
PARTS LIST		

REVISIONS
 CHK CHG NO. REV.

DRN. *M. Walker* DATE 6-20-68
 CHK'D *R. ...* DATE 6-20-68
 EDC *J. ...* DATE 7-11-68
 MOD. DATE

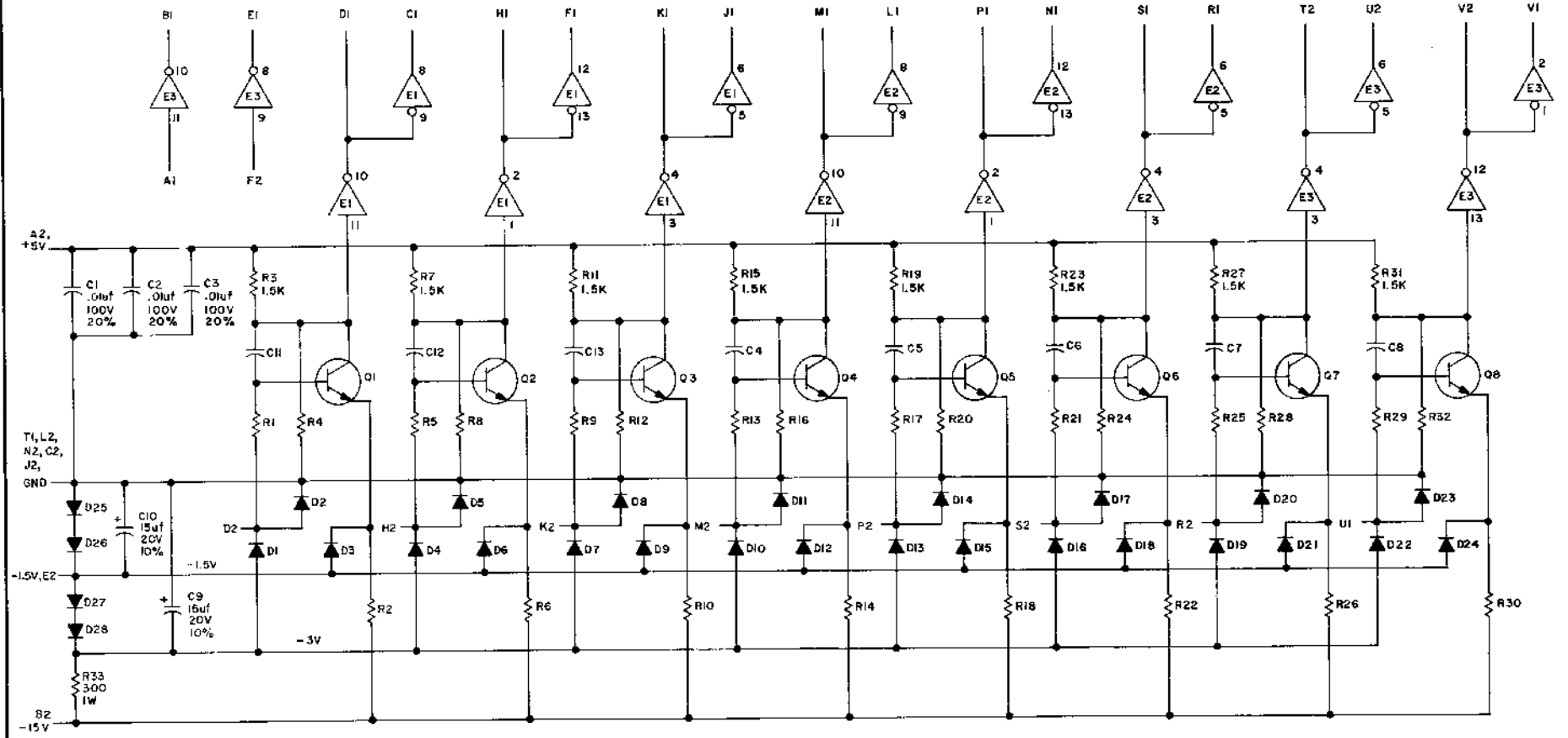
TRANSISTOR & DIODE CONVERSION CHART			
DEC		EIA	
D662	IN645		
D664	IN3606		

digital
 EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

TITLE POSITIVE BUS RECEIVER M516
 SIZE B CODE CS NUMBER M516-0-1 REV.
 PRINTED CIRCUIT REV. A

Dist 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 DEC30098
 IC'S ARE DEC7404

REV. A
 NUMBER M531-0-1
 CS

REVISIONS	CHKD	DATE
1	W. M. M.	10/19/70
2	R. M. M.	11/19/70

DESIGN: W. M. M.
 DATE: 10/19/70
 CHECKED: R. M. M.
 DATE: 11/19/70
 ENGINEER: W. M. M.
 DATE: 10/19/70
 DRAWN: W. M. M.
 DATE: 10/19/70

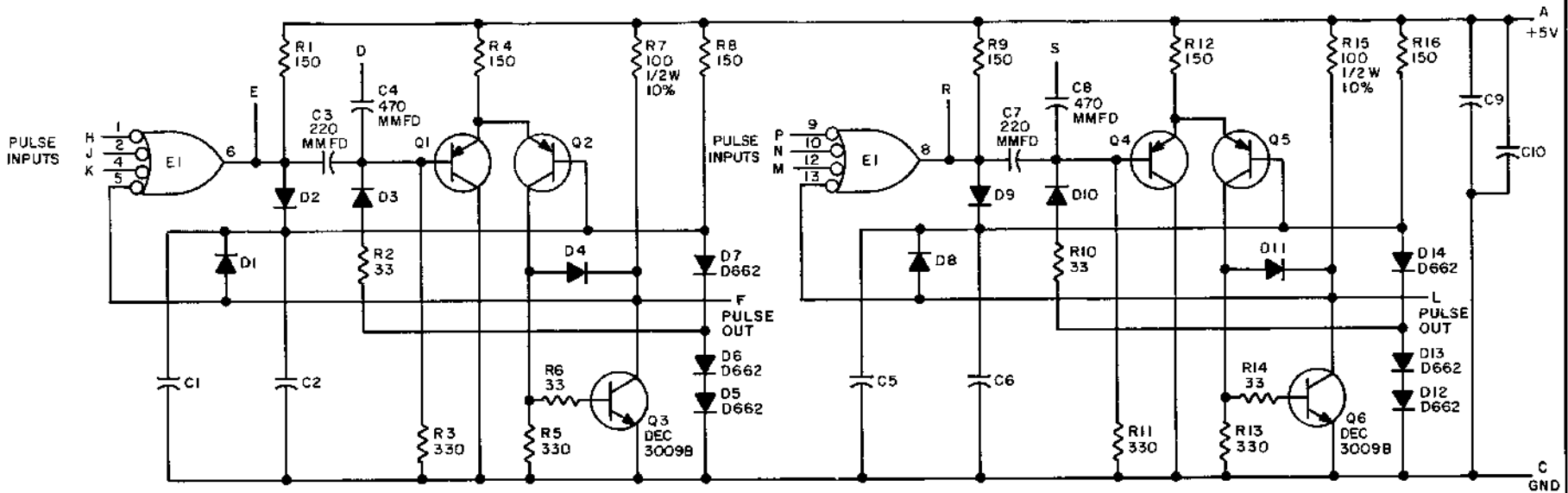
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC30098	2N3009		
D664	1N3606		

digital EQUIPMENT CORPORATION
 TITLE: **NEGATIVE BUS CONVERTER**
 SIZE: C CODE: CS NUMBER: M531-0-1 REV: A
 PRINTED CIRCUIT REV. A

Dist. 324 434 435 S. Pink

REV B
 NUMBER M602-0-1
 SIZE CODE B
 CS 300

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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

 C R O U N T Y V E R S I T Y E X P L A N E D

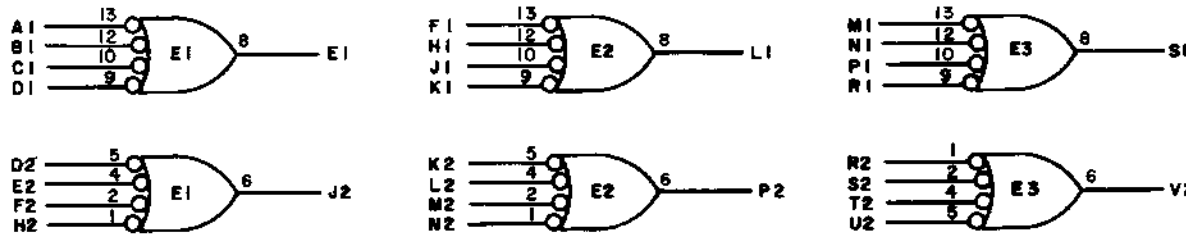
REVISIONS CHG NO. REV. B 1 5720	DRN	M. Pallen	DATE	6-1-67	TRANSISTOR & DIODE CONVERSION CHART				digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE			
	CHK'D		DATE	6-2-67	DEC	EIA	DEC	EIA		PULSE GENERATOR M602			
	ENG.	W. White	DATE	6-8-67	DEC3009B	2N3009				SIZE	CODE	NUMBER	REV.
	PROD.		DATE		DEC3639B	2N3639				B	CS	M602-0-1	B
			DATE		D662	IN645				PRINTED CIRCUIT REV A			
		DATE		D664	IN3606								

↓

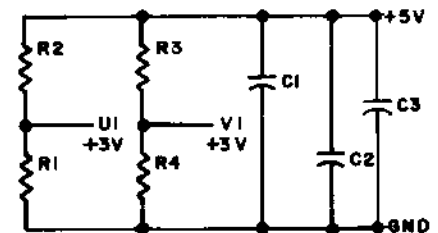
3 REV	1-0-219M NUMBER	B CS	8 SIZE
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+5V ——— A 2
 NOT USED -15V ——— B 2
 GND ——— C 2, T 1



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-O-O
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

REV	CHG NO	REV
1	6422	A
2	6824	B
3	10001	C
4	00002	D
5	00003	E

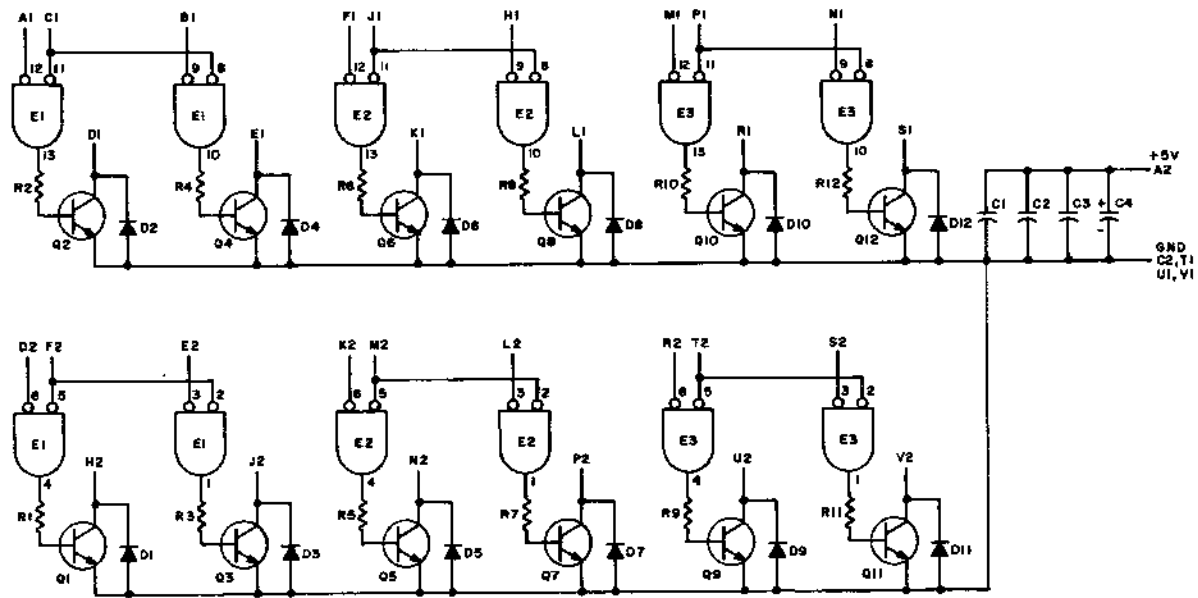
DRN *W. Waller* DATE 5-15-67
 CHK'D *W. Waller* DATE 7-20-67
 ENG *W. White* DATE 4-21-67
 PROD DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital
 EQUIPMENT CORPORATION
 MAYNARD MASSACHUSETTS

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

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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	1000067
C1 - C3	CAP. .01MFD 100V 20% DISC	1001610
PARTS LIST		A-PL-M623-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.
PARTS LIST		

REVISIONS	CHK'D	ENG	NO	REV

DRN	DATE	TRANSISTOR & DIODE CONVERSION CHART	
20/11/68	6-7-68	DEC	EIA
CHK'D	DATE	DEC	EIA
		DEC	EIA
		DEC	EIA
		DEC	EIA

digital EQUIPMENT CORPORATION
 BUS DRIVER M623
 SIZE CODE NUMBER
 C CS M623-0-1
 PRINTED CIRCUIT REV. DE

DEC FORM NO. 102

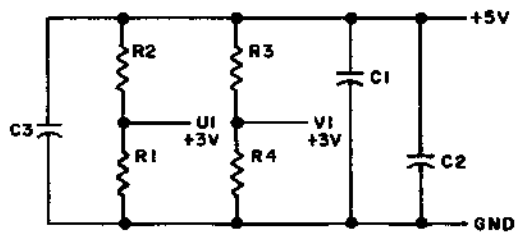
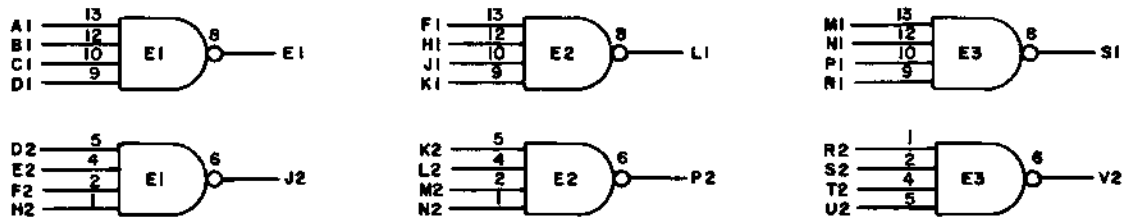
PINK 5 10/13/24 4/24/25

DATE FOR C CS M623-0-1
 NUMBER M623-0-1
 REV. E

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
REFERENCE DESIGNATION	PARTS LIST	A-PL- M627-0-0
	DESCRIPTION	PART NO.

PARTS LIST

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

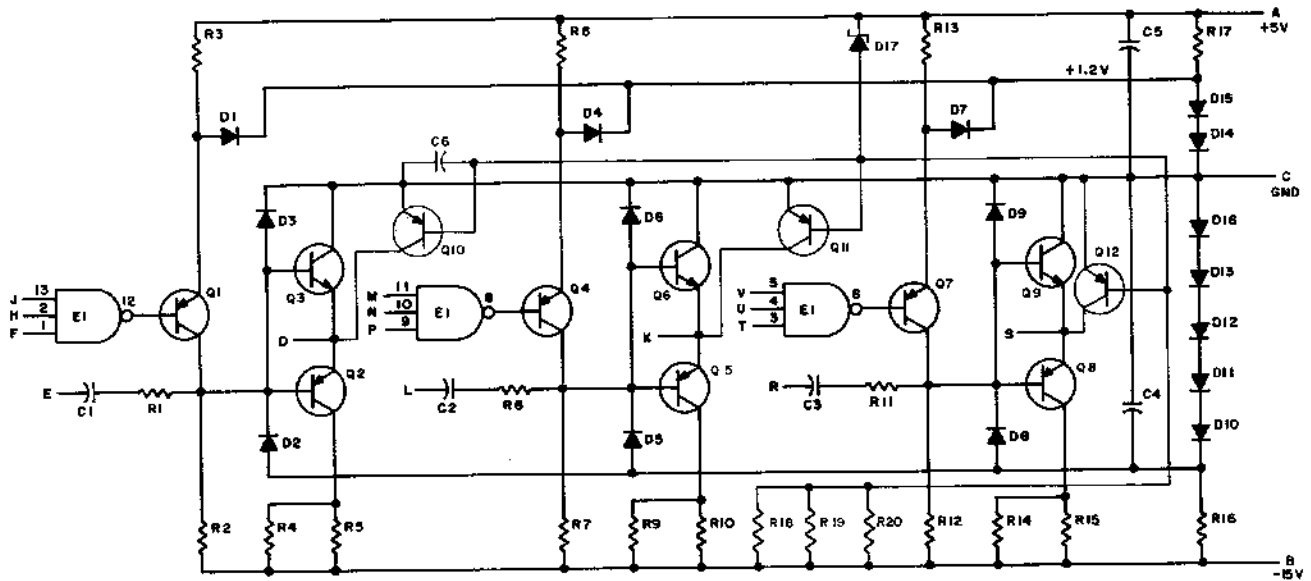
DRN. <i>M. Waller</i>	DATE 7-18-67
CHK'D <i>[Signature]</i>	DATE 7/11/67
ENG. <i>[Signature]</i>	DATE 7/10
PROD. <i>[Signature]</i>	DATE

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. DEC 7410N	1905576
Q3, Q6, Q9	TRANSISTOR DEC 3009 B-S	1503100
Q1, Q2, Q4, Q5, Q7, Q8, Q10, Q11, Q12	TRANSISTOR DEC 6534 B	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. 62 1/4W 10% CC.	1300224
D17	DIODE 1N750A	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-D-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

REVISIONS	DATE	BY
1	2-27-69	...

TRANSISTOR & DIODE CONVERSION CHART			
DATE	DEC	EIA	EIA
DEC 3009 B	2N3009		
DEC 6534 B	MP6534		
D662	1N645		
D664	1N3806		
1N750A	SAME		

digital EQUIPMENT CORPORATION

TITLE: **NEGATIVE OUTPUT CONVERTER M651**

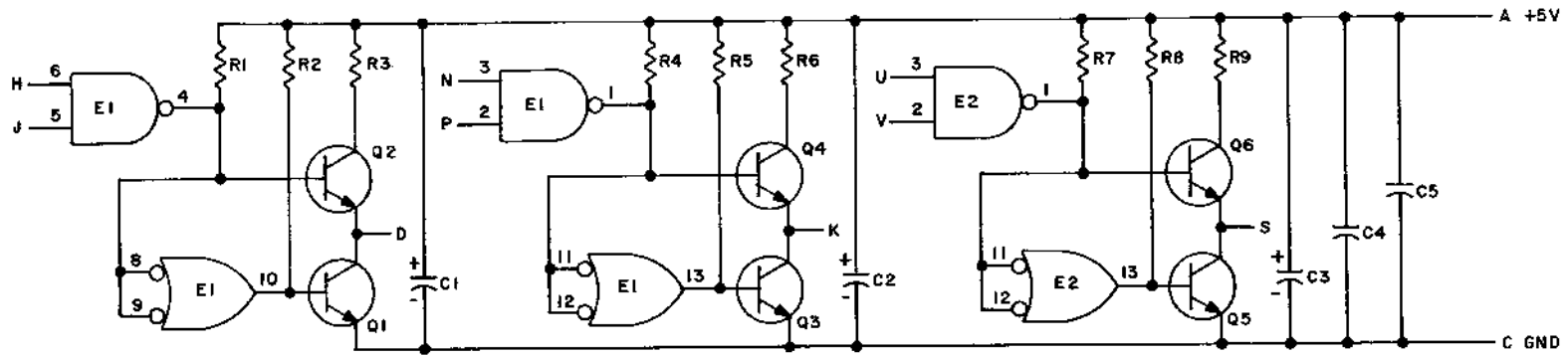
SIZE: C CS NUMBER: M651-0-1 REV: B

PRINTED CIRCUIT REV: AC

REV. B
NUMBER
C. I. CS. M651-0-1

REV A
 NUMBER M660-0-1
 SIZE CODE CS B

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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.

REVISIONS	DRN. <i>M. Miller</i>	DATE 7-12-68
CHK'D	DATE 7/12/68	
ENG. <i>H. Gough</i>	DATE 7/12/68	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART			
DEC		EIA	
D664	IN3606		
1N750	SAME		
DEC3009B	2N3009		

digital EQUIPMENT CORPORATION
 NAYARD, MASSACHUSETTS

TITLE: POSITIVE LEVEL DRIVER M660

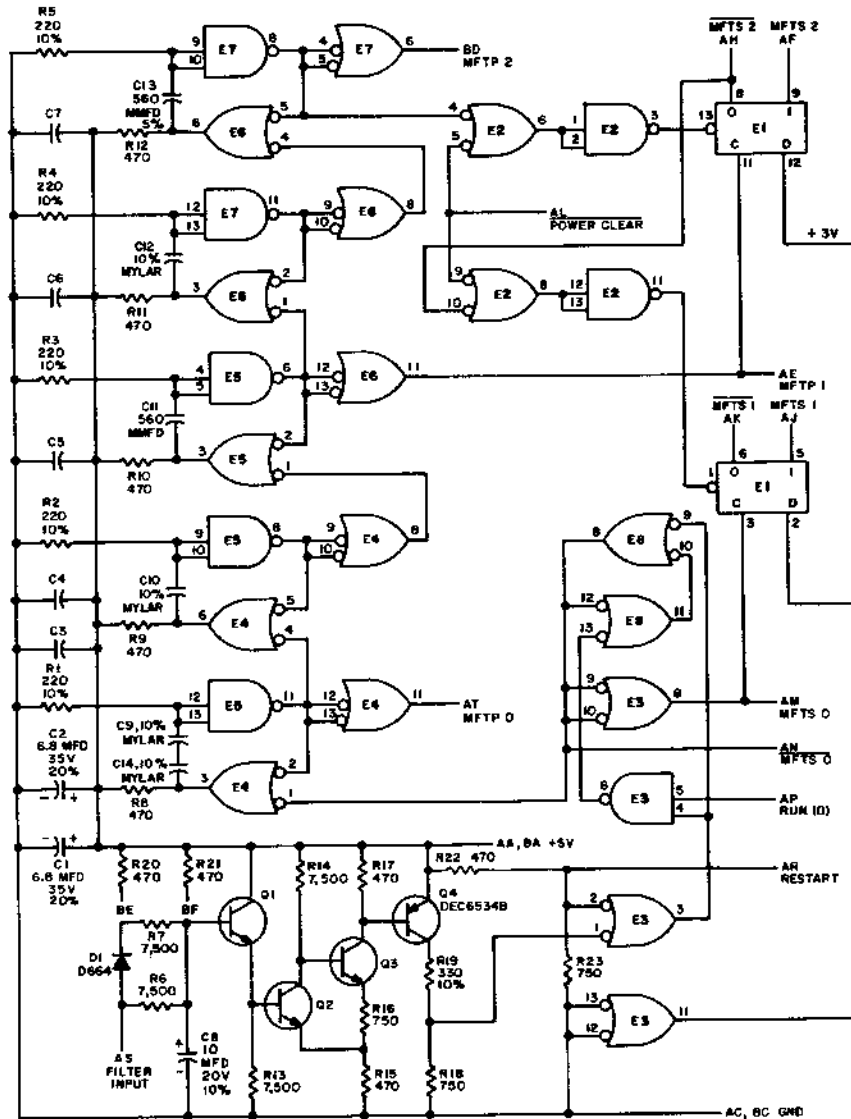
SIZE: B CODE: CS NUMBER: M660-0-1 REV: A

PRINTED CIRCUIT REV: B

PINK

DIST. 1434 435 324

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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	00001	A
2	00002	B
3	00003	C

CHK'D	DATE	BY
	DEC 27 1967	
	DEC 27 1967	
	DEC 27 1967	

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EA	DEC	EA
DEC30098	2N3009		
DEC6534B	MP98534		
0664	1N340B		

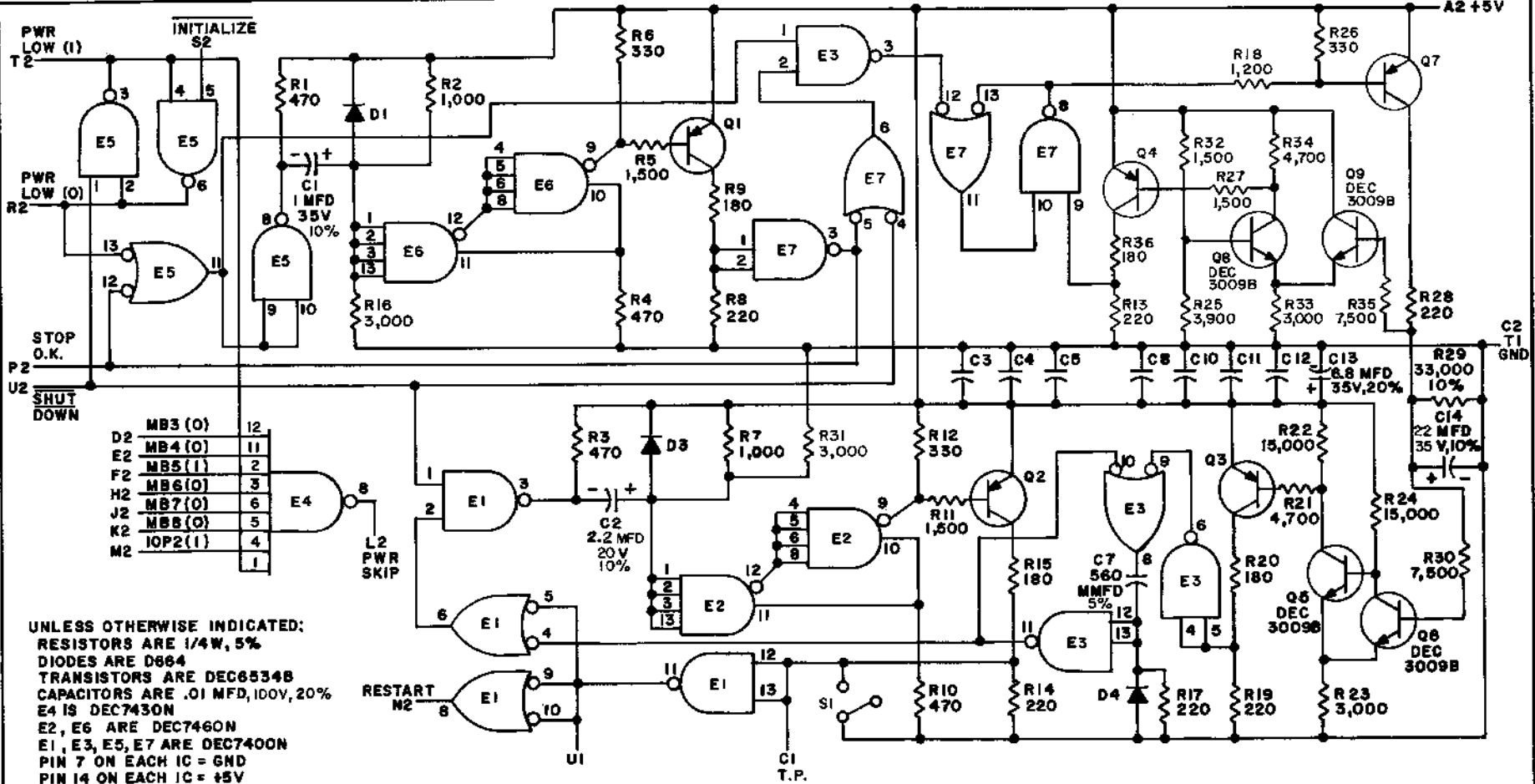
digital
 EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

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

TREE CODE NUMBER REV. CS M700-0-1 E

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

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UNLESS OTHERWISE INDICATED:
 RESISTORS ARE 1/4W, 5%
 DIODES ARE D664
 TRANSISTORS ARE DEC6534B
 CAPACITORS ARE .01 MFD, 100V, 20%
 E4 IS DEC7430N
 E2, E6 ARE DEC7460N
 E1, E3, E5, E7 ARE DEC7400N
 PIN 7 ON EACH IC = GND
 PIN 14 ON EACH IC = +5V
 S1 IS SWITCH #6AT1-T2

PARTS LIST A-PL-M703-0-0

REV.	CHK	DATE
1	6617	7-14-67
2	7148	7-15-67
3	7125	7-15-67
4	7165	7-15-67
5	00001	7-15-67
6	00004	7-15-67

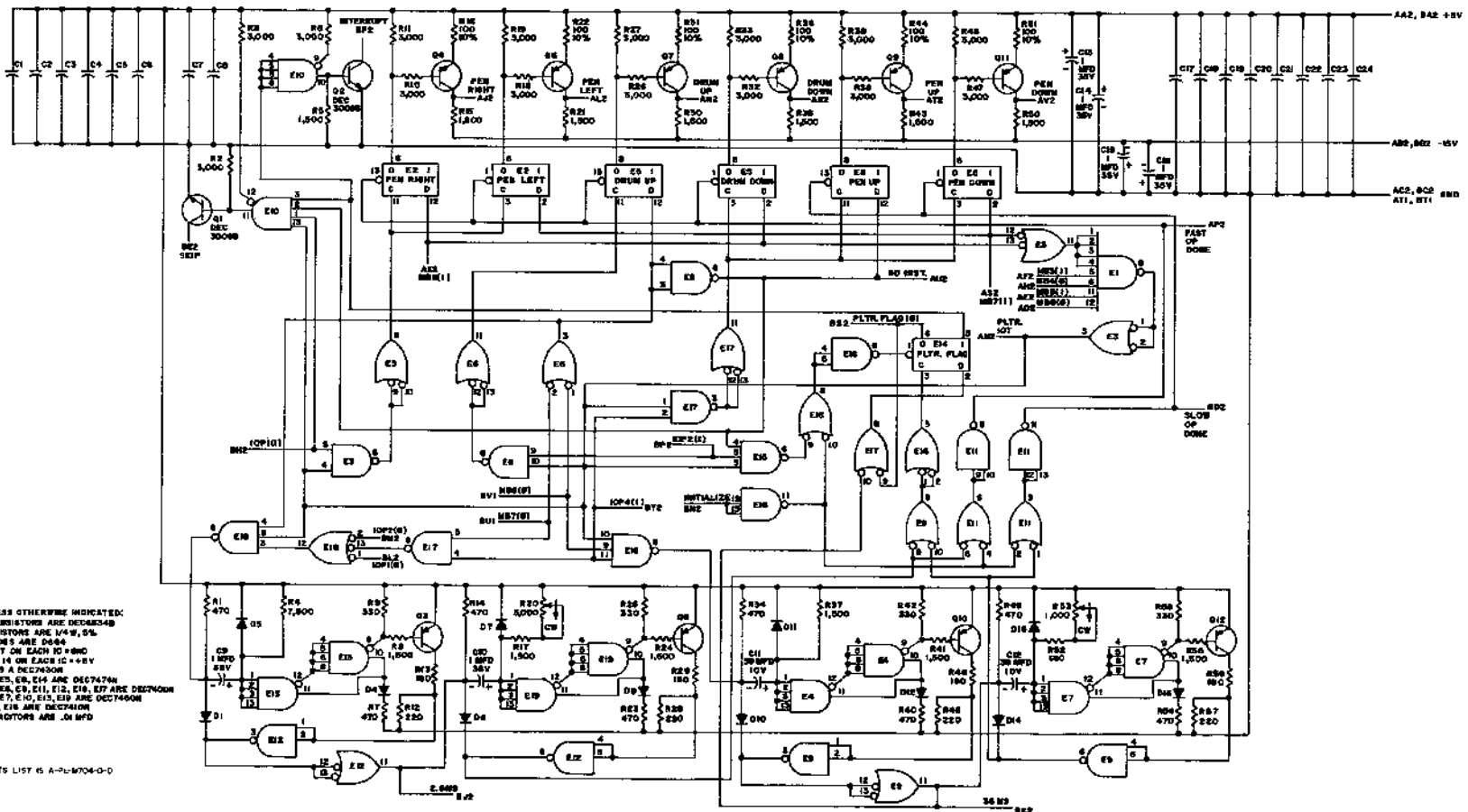
DRN. <i>Dr. Keller</i>	DATE <i>9-17-67</i>
CHK'D <i>[Signature]</i>	DATE <i>[Signature]</i>
DATE <i>[Signature]</i>	DATE <i>[Signature]</i>
PROD 2	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC6534B	MPS6534		
D664	1N3806		
DEC3009B	2N3009		

digital
 EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

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

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UNLESS OTHERWISE INDICATED:
 TRANSISTORS ARE DEC48S48
 RESISTORS ARE 1/4W, 5%
 DIODES ARE D064
 PIN 7 ON EACH IC +5V
 PIN 14 ON EACH IC +5V
 E1 IS A DEC74008
 E2, E3, E6, E14 ARE DEC7474
 E5, E8, E9, E11, E13, E16, E17 ARE DEC7400
 E4, E7, E10, E12, E15 ARE DEC7400
 E18, E19 ARE DEC7400
 CAPACITORS ARE .01MFD

PARTS LIST IS A-740704-D-0

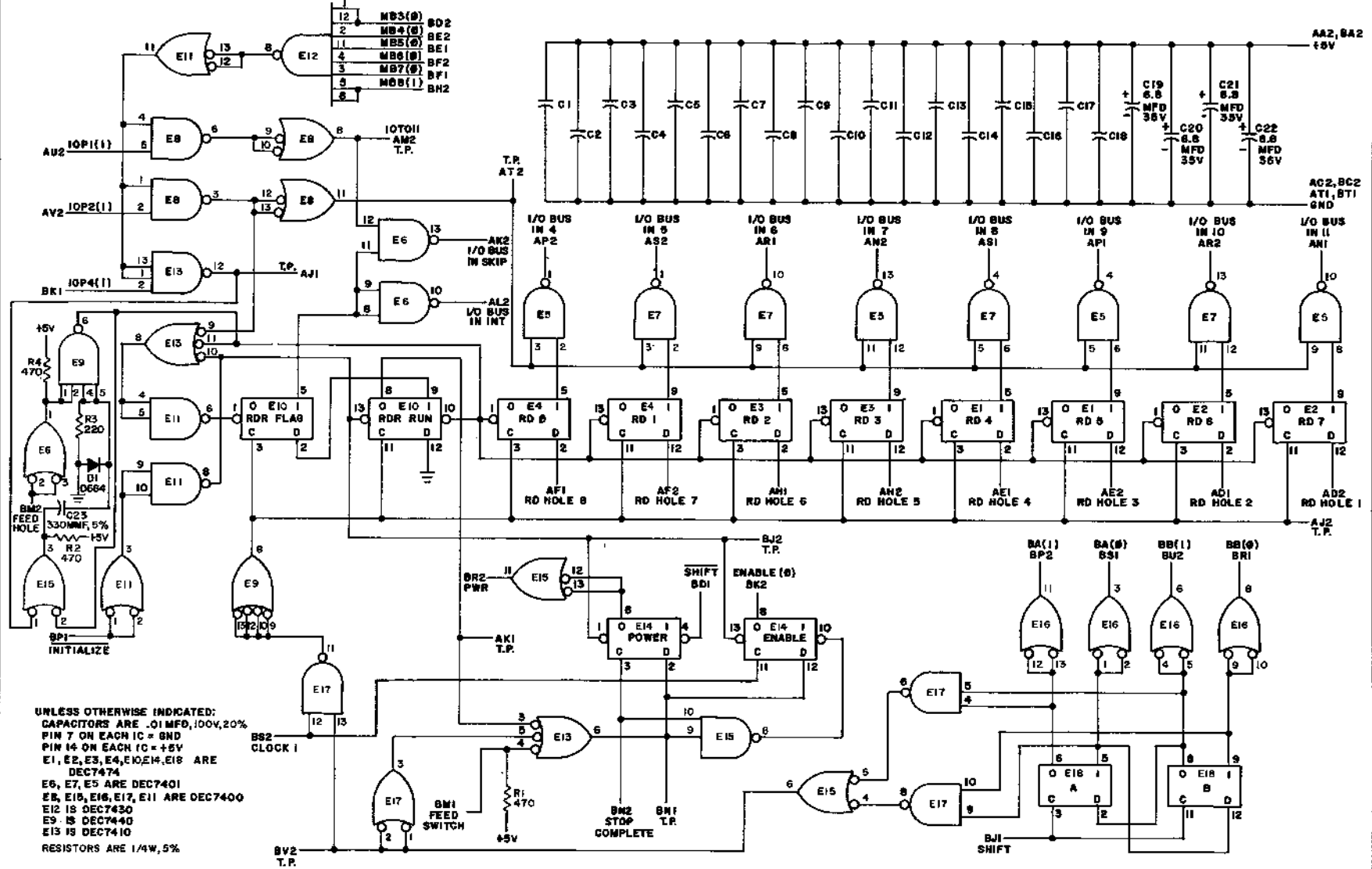
REVISED BY	DATE	DESCRIPTION	APPROVED BY	DATE

TRANSISTOR & DIODE CONVERSION CHART	FILE

digital	PLOTTER CONTROL M704
EQUIPMENT CORPORATION	

PLOTTER CONTROL M704-0-1
 1-0-904M 2 7

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UNLESS OTHERWISE INDICATED:
 CAPACITORS ARE .01 MFD, 100V, 20%
 PIN 7 ON EACH IC = GND
 PIN 14 ON EACH IC = +5V
 E1, E2, E3, E4, E10, E14, E16 ARE
 DEC7474
 E6, E7, E5 ARE DEC7401
 E8, E15, E16, E17, E11 ARE DEC7400
 E12 IS DEC7430
 E9 IS DEC7440
 E13 IS DEC7410
 RESISTORS ARE 1/4W, 5%

REV	DATE	BY	CHKD
0001	10-17-67		
0002			
0003			
0004			
0005			

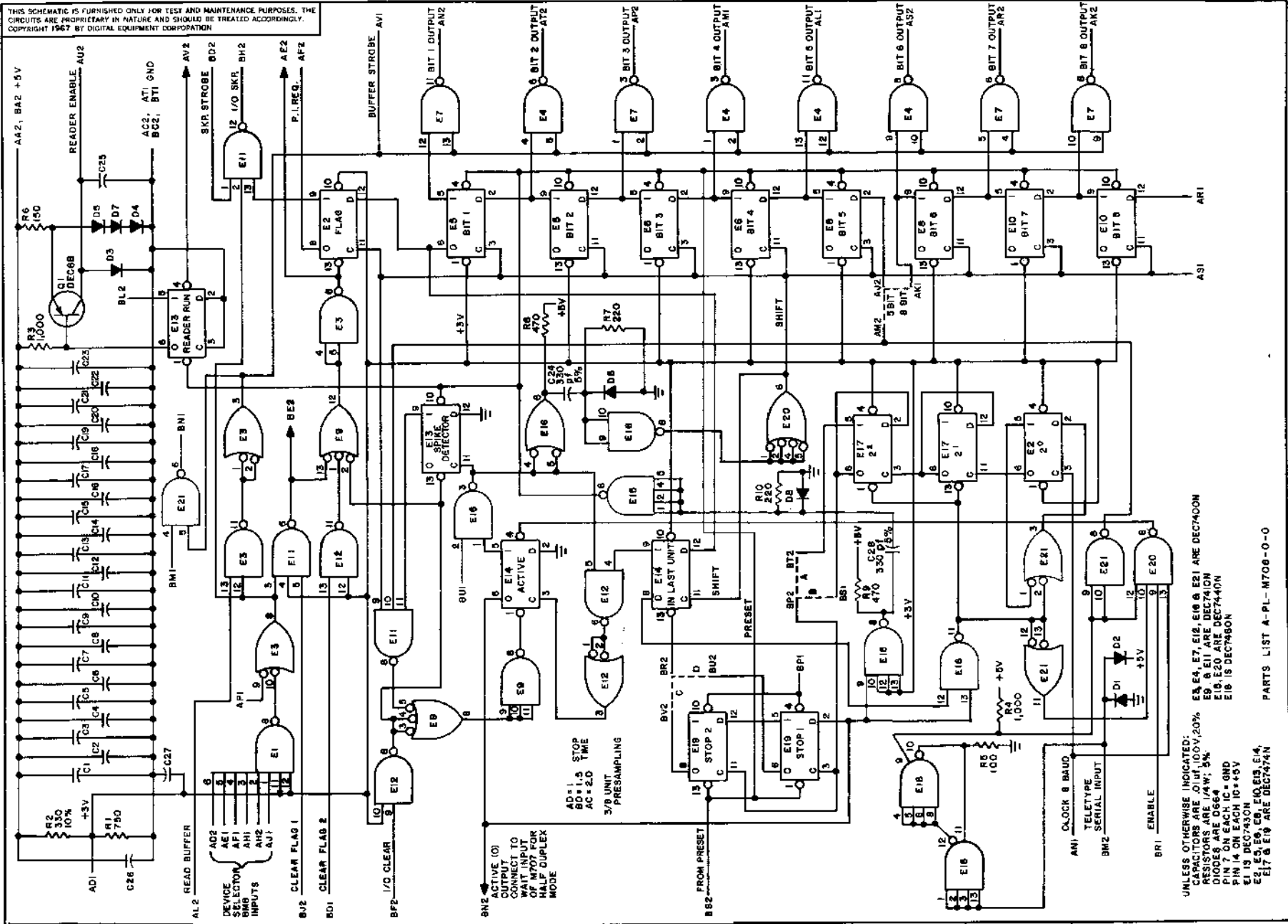
DATE	BY	CHKD
10-17-67		

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EM	DEC	EM
D884	1N645		

TITLE		NUMBER		REV.
DIGITAL READER CONTROL M705		M705-0-1		J
SIZE	CODE	NUMBER	REV.	
C	CS	M705-0-1	J	
PRINTED CIRCUIT REV. J				

REV. J
 NUMBER
 M705-0-1
 CS

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REV	DATE	BY	REV
1	1/15/67	W. J. ...	A
2	1/15/67	W. J. ...	B
3	1/15/67	W. J. ...	C
4	1/15/67	W. J. ...	D
5	1/15/67	W. J. ...	E
6	1/15/67	W. J. ...	F
7	1/15/67	W. J. ...	G
8	1/15/67	W. J. ...	H
9	1/15/67	W. J. ...	I
10	1/15/67	W. J. ...	J
11	1/15/67	W. J. ...	K
12	1/15/67	W. J. ...	L

AD2	READ BUFFER
AE1	DEVICE SELECTION
AF1	SELECTOR
AH1	INPUT
AN2	INPUT
AV1	INPUT
BE2	CLEAR FLAG 1
BE3	CLEAR FLAG 2
BD1	I/O CLEAR
BF2	I/O CLEAR
BN2	ACTIVE (0) OUTPUT
BP2	STOP 1
BP1	STOP 2
BR2	STOP 1
BR1	STOP 2
BS2	STOP 1
BS1	STOP 2
BT2	STOP 1
BT1	STOP 2
BU2	STOP 1
BU1	STOP 2
BV2	STOP 1
BV1	STOP 2
EW1	STOP 1
EW2	STOP 2
EX1	STOP 1
EX2	STOP 2
EY1	STOP 1
EY2	STOP 2
EZ1	STOP 1
EZ2	STOP 2

DATE	1/15/67
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TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3009B	2N5009		
DEC68	NONE		
0664	1N3408		

digital
EQUIPMENT CORPORATION
MAYFIELD, MASSACHUSETTS

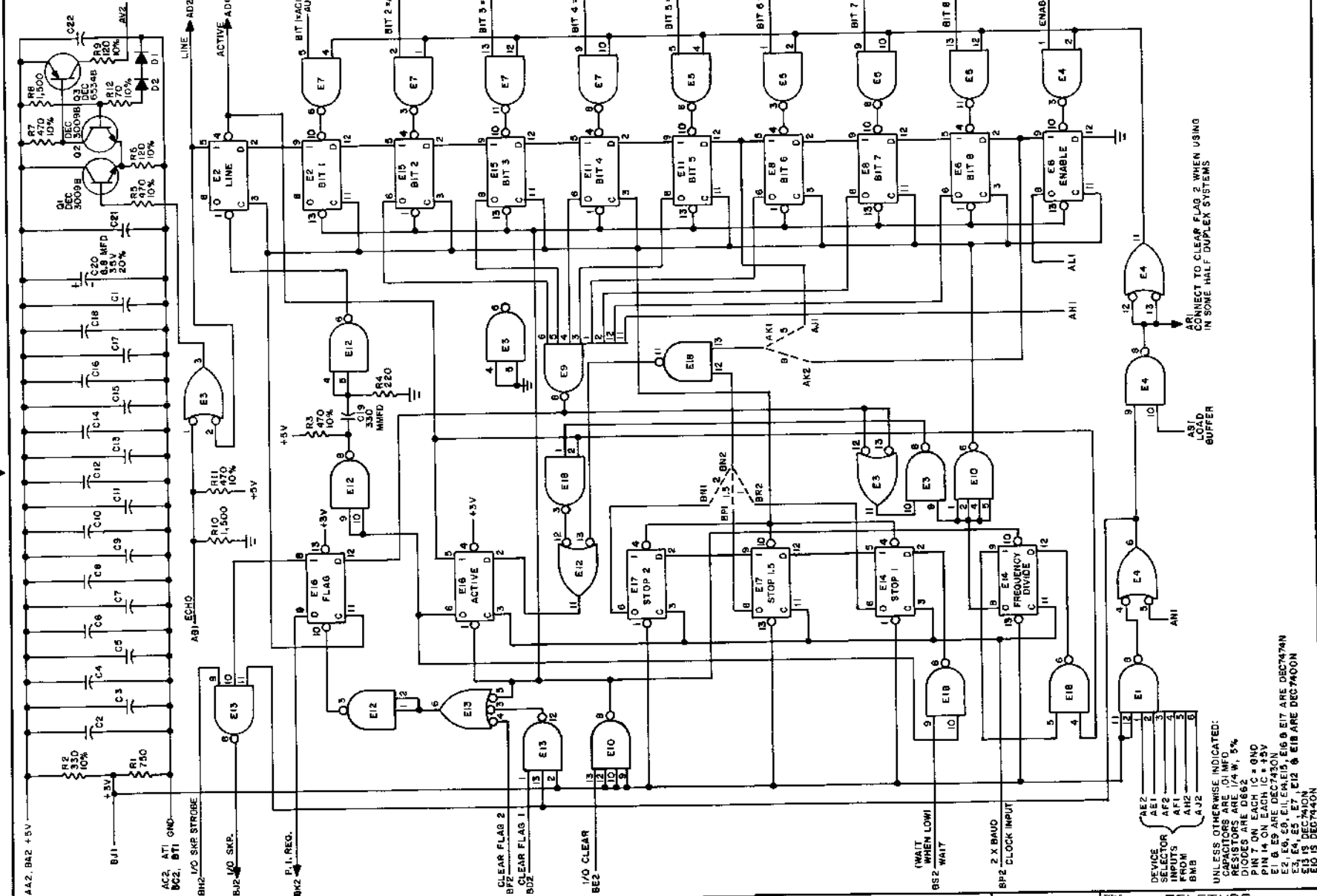
TITLE	TELETYPE RECEIVER M706
SIZE	C
CODE	CS
NUMBER	M706-0-1
REV.	L

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 100V, 20%
RESISTORS ARE 1/4W, 5%
DIODES ARE D664
E1, E2, E3, E4, E5, E6, E7, E8, E9, E10, E11, E12, E13, E14, E15, E16, E17, E18, E19 ARE DEC7400N
E16 IS DEC7400N
E19 IS DEC7400N

PARTS LIST A-PL-M706-0-0

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

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AA2, BA2 + 5V
 AC2, AT1 GND
 BC2, BT1
 BH2 /O SHP STROBE
 BI2 /O SHP.
 BJ1
 BK2 /I REG.
 BL2 CLEAR FLAG 2
 BM2 CLEAR FLAG 1
 BN2 /O CLEAR
 BO2
 BP2 2 X BAUD
 BQ2 CLOCK INPUT
 BR2
 BS2 WAIT
 BT2 WAIT
 BU2
 BV2
 BW2
 BX2
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REV	CHG	NO.	REV
1	3387	A	
2	3378	B	
3	00001	C	
4	00002	C	
5	00004	D	

DRW	DATE	TRANSISTOR & DIODE CONVERSION CHART			
<i>M. Miller</i>	8-19-67	DEC	11A	DEC	EA
CHKD	DATE	DEC	11A	DEC	EA
<i>R. Robinson</i>	12/21/67	D662	1N645		
DES	DATE	DEC 3009B	2N3009		
<i>W. Roberts</i>	5-25-68	DEC6534B	1NPS6534		
PROD	DATE				

UNLESS OTHERWISE INDICATED:
 RESISTORS ARE 1/4 W, 5%
 DIODES ARE DS62
 PIN 7 ON EACH IC = GND
 PIN 14 ON EACH IC = +5V
 E1, E9 ARE DEC130; E16 & E17 ARE DEC741N
 E2, E4, E5, E7, E12 & E18 ARE DEC7400N
 E13 IS DEC7410N
 E10 IS DEC74140N

DEVICES SELECTOR INPUTS FROM BNB

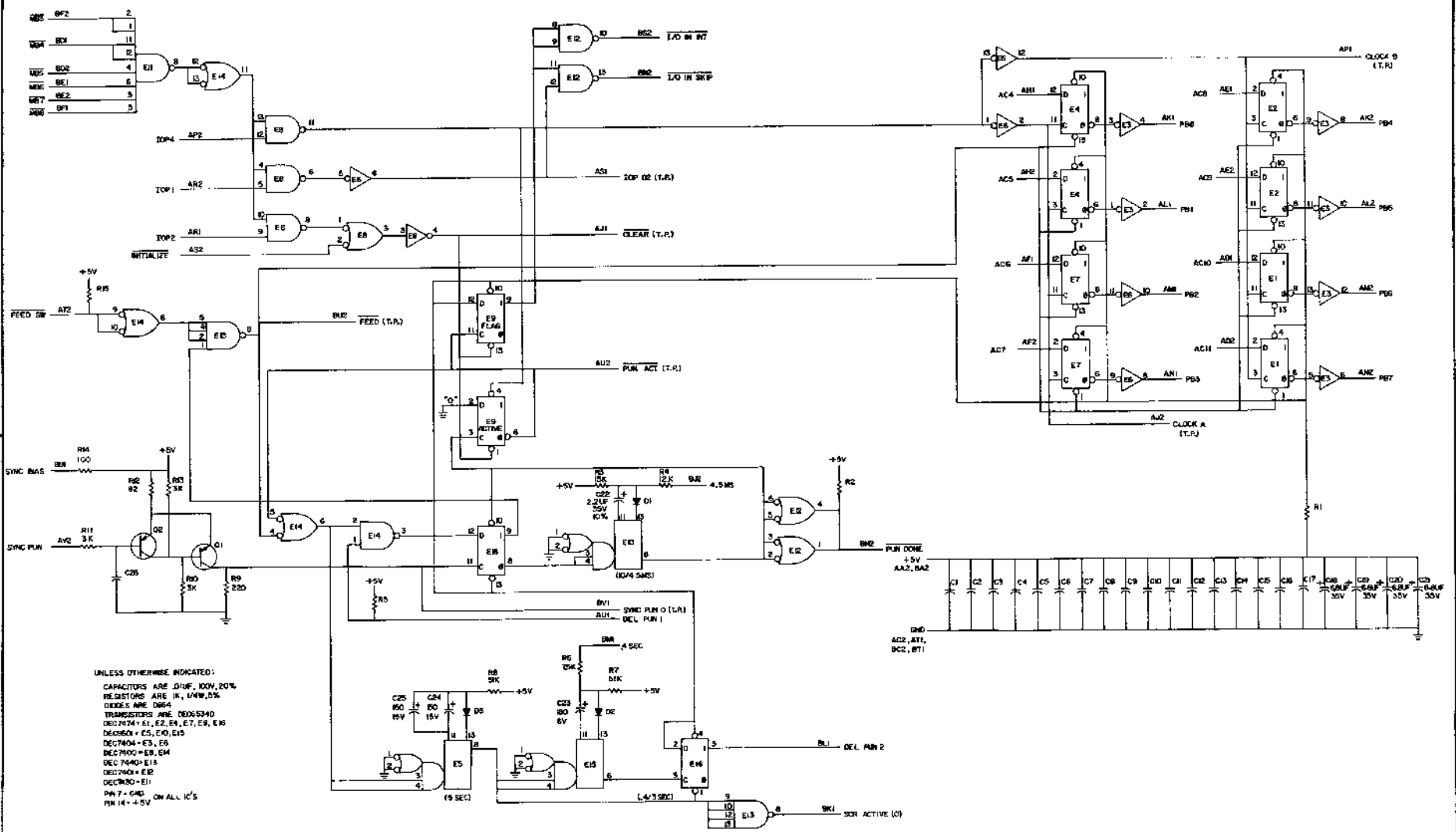
CONNECT TO CLEAR FLAG 2 WHEN USING IN SOME HALF DUPLEX SYSTEMS

LOAD BUFFER

TITLE		TELETYPE TRANSMITTER M707	
SIZE	CODE	NUMBER	REV
C	CS	M707-0-1	D
PRINTED CIRCUIT REV. 0			

SIZE (CODE) NUMBER REC. D

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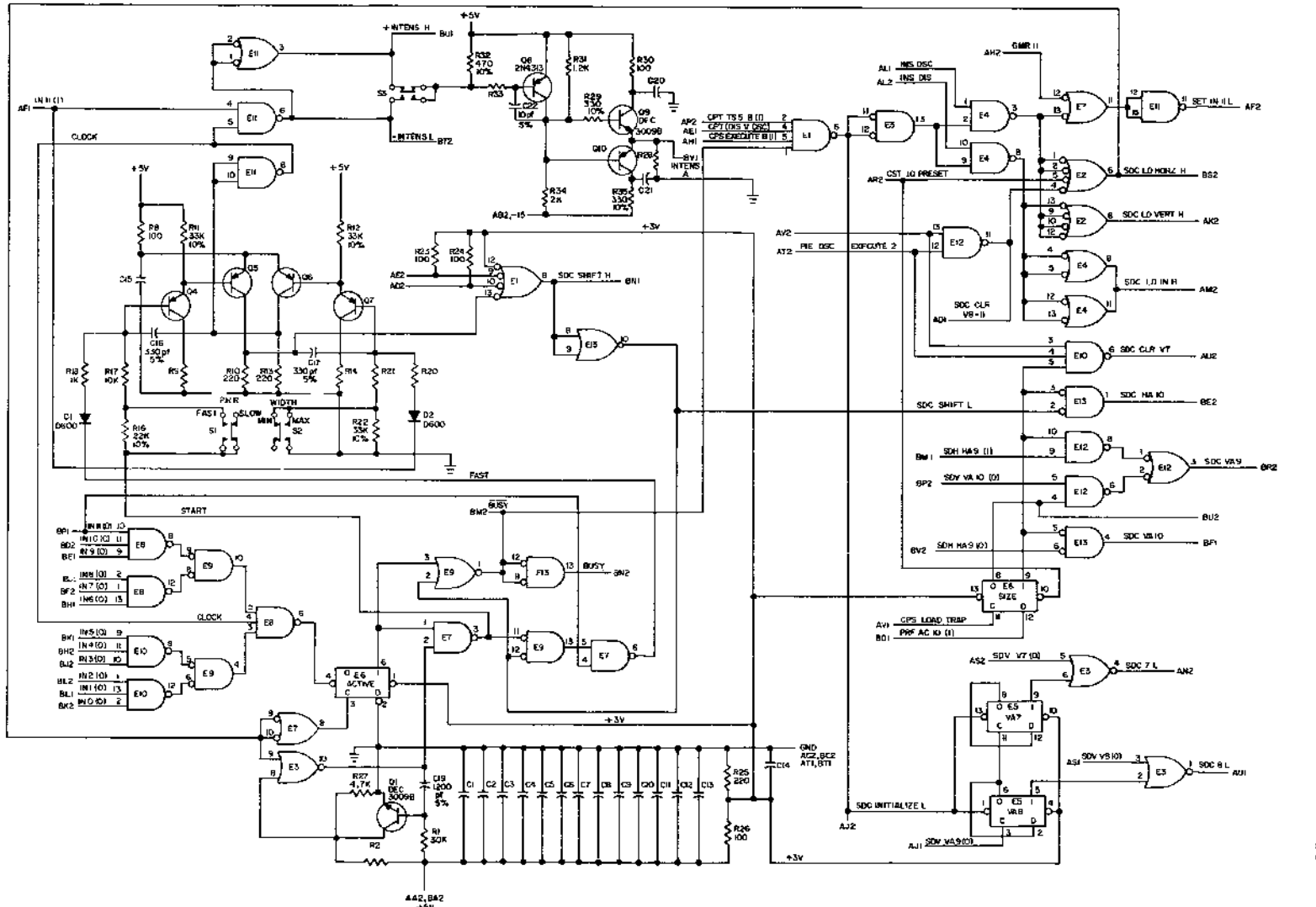


UNLESS OTHERWISE INDICATED:
CAPACITORS ARE .01UF, 100V, 20%
RESISTORS ARE 1K, 1/4W, 5%
DIODES ARE 1N4148
TRANSISTORS ARE 2N2639AD
DEC 7474 = E1, E2, E4, E7, E9, E16
DEC 5601 = E5, E10, E15
DEC 7404 = E3, E6
DEC 7400 = E8, E14
DEC 7440 = E13
DEC 7401 = E12
DEC 7430 = E11
PIN 7 = GND ON ALL IC'S
PIN 14 = +5V

DATE: 7-4-71 BY: [Signature] CHECKED: [Signature]		TRANSDUCER & GUNDS CONVERTOR CHART UNIT: [] MODEL: [] SERIAL: []		PUNCH CONTROL - M710 REV. 10/64 M710-0-1	
APPROVED: [Signature] TITLE: []		APPROVED: [Signature] TITLE: []		APPROVED: [Signature] TITLE: []	

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3 1-D-112R 50 10



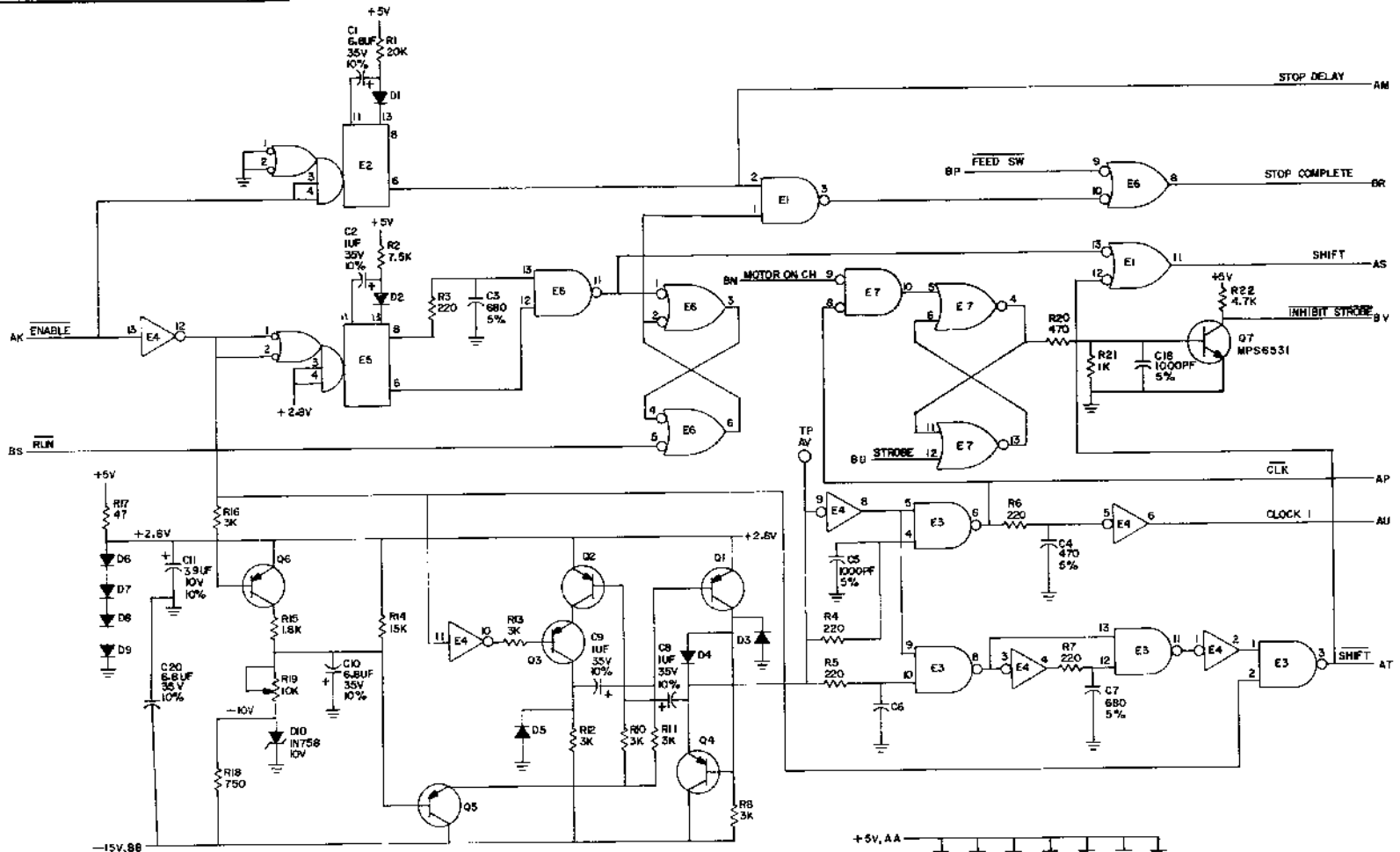
UNLESS OTHERWISE INDICATED:
 TRANSISTORS ARE DEC36308
 CAPACITORS ARE .01 MFD, 50V, 20%
 RESISTORS ARE 2.2K, 1/4W, 5%
 S1, S2, S3 ARE .209638
 E5, E6 ARE DEC7474
 E4, E7, E11, E12 ARE DEC7400
 E3, E9, E13 ARE DEC7402
 E8, E10 ARE DEC7410
 E1, E2 ARE DEC7440
 PIN 7 ON EACH IC = GND
 PIN 14 ON EACH IC = +5V

REV	DATE	BY	CHKD	APP'D	DESCRIPTION
1	10/1/68	...	...	...	...
2	...	...	...	...	...
3	...	...	...	...	...

TRANSISTOR & DIODE CONVERSION CHART	DEC	ON	DEC	ON
...
...
...

digital	SCOPE CONTROL, M711
EDU L I P M E N T	...
CORPORATION	...
...	...

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UNLESS OTHERWISE INDICATED;

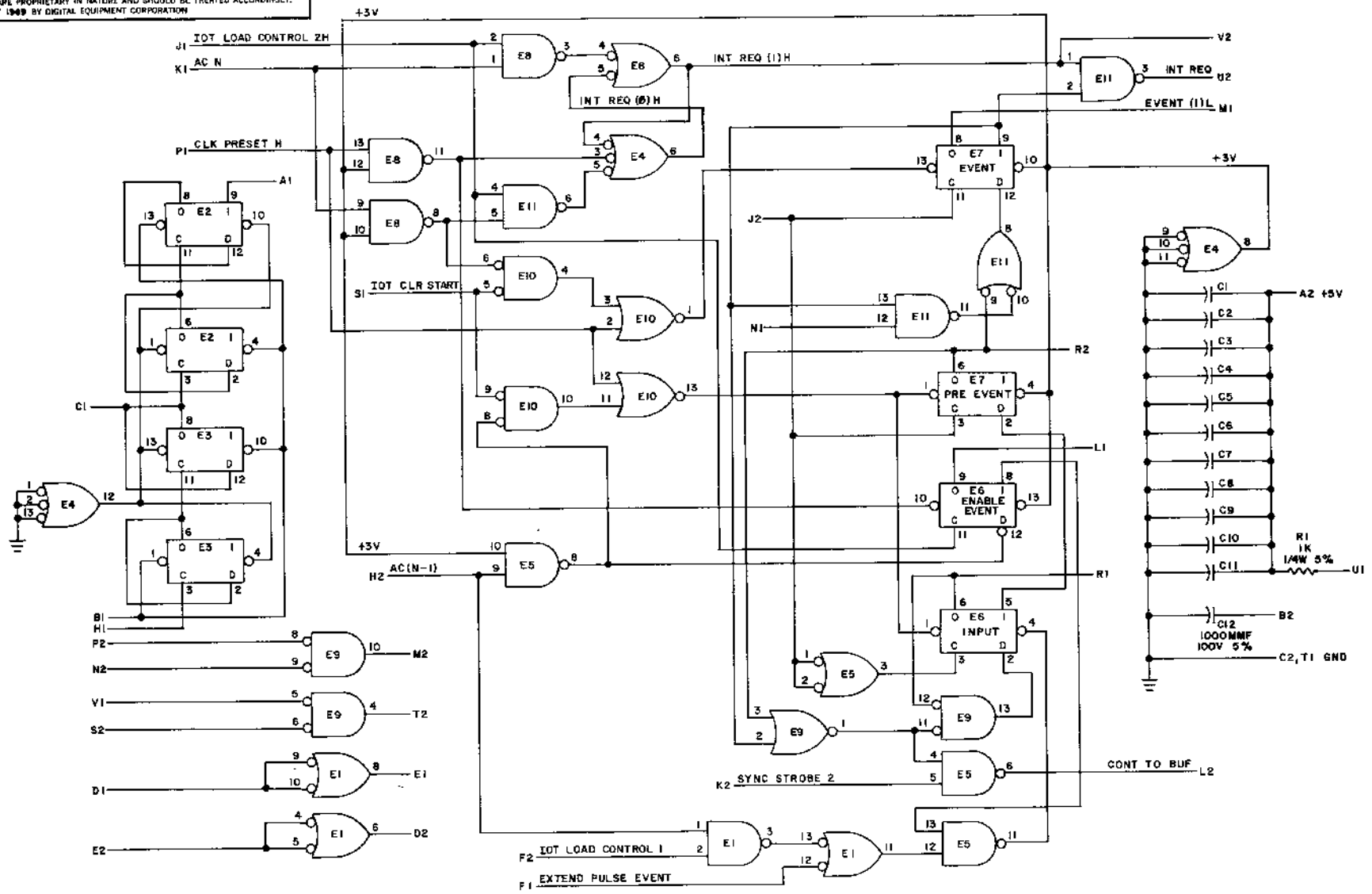
- TRANSISTORS = DEC6534D
- DIODES = D664
- RESISTORS = 1/4W, 5%
- CAPACITORS = .01UF, 100V, 20%
- E1, E3, E5 = DEC7400
- E4 = DEC7404
- E2, E5 = DEC9601
- PIN 7 = GND ON ALL IC'S
- PIN 14 = +5V
- E7 = DEC7402

REV.	DATE	BY	CHKD.
1	11/2/67	R. G. SILVERMAN	R. G. SILVERMAN
2	11/2/67	R. G. SILVERMAN	R. G. SILVERMAN
3	11/2/67	R. G. SILVERMAN	R. G. SILVERMAN
4	11/2/67	R. G. SILVERMAN	R. G. SILVERMAN
5	11/2/67	R. G. SILVERMAN	R. G. SILVERMAN
6	11/2/67	R. G. SILVERMAN	R. G. SILVERMAN
7	11/2/67	R. G. SILVERMAN	R. G. SILVERMAN
8	11/2/67	R. G. SILVERMAN	R. G. SILVERMAN
9	11/2/67	R. G. SILVERMAN	R. G. SILVERMAN
10	11/2/67	R. G. SILVERMAN	R. G. SILVERMAN
11	11/2/67	R. G. SILVERMAN	R. G. SILVERMAN
12	11/2/67	R. G. SILVERMAN	R. G. SILVERMAN
13	11/2/67	R. G. SILVERMAN	R. G. SILVERMAN
14	11/2/67	R. G. SILVERMAN	R. G. SILVERMAN
15	11/2/67	R. G. SILVERMAN	R. G. SILVERMAN
16	11/2/67	R. G. SILVERMAN	R. G. SILVERMAN
17	11/2/67	R. G. SILVERMAN	R. G. SILVERMAN
18	11/2/67	R. G. SILVERMAN	R. G. SILVERMAN
19	11/2/67	R. G. SILVERMAN	R. G. SILVERMAN
20	11/2/67	R. G. SILVERMAN	R. G. SILVERMAN

TRANSISTOR & DIODE CONVERSION CHART			
DATE	DEC	EIA	DATE
DEC6534D	DEC	MPS6534	11/2/67
D664	DEC	IN3606	11/2/67
DEC6531	DEC	MPS6531	11/2/67

digital		TITLE	
EQUIPMENT CORPORATION		M715-0-1	
SIZE	DOSE	NUMBER	REV
C	CS	M715-0-1	K
PRINTED CIRCUIT REV			E

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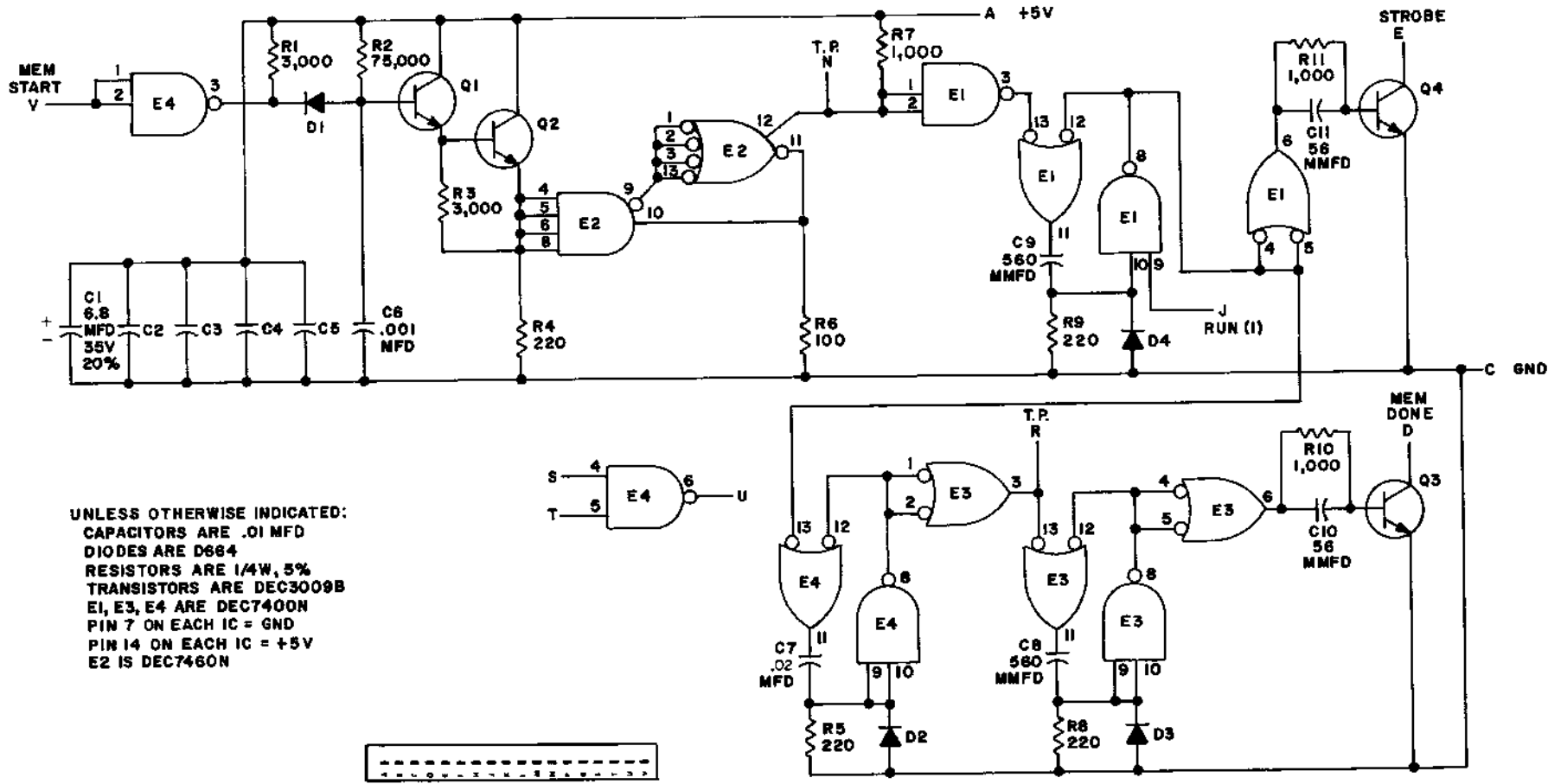


UNLESS OTHERWISE INDICATED:
 CAPACITORS ARE .01MFD
 PIN 7 ON EACH IC = GND
 PIN 14 ON EACH IC = +5V
 E1, E5, E9, E11 ARE DEC7400N
 E2, E3, E6, E7 ARE DEC7474N
 E4 IS DEC7410N
 E9, E10 ARE DEC7402N

SIZE CODE NUMBER
 C CS M719-0-1

REVISIONS CHK'D [] ENG [] PROD []	DPN DATE CHK'D DATE ENG DATE PROD DATE	DATE 4-2-69	TRANSISTOR & DIODE CONVERSION CHART				digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE KW12 CLOCK INPUT SYNCHRONIZER M719		
	DEC [] EIA []	DEC [] EIA []	DEC [] EIA []	DEC [] EIA []	DEC [] EIA []	SIZE C CS		CODE M719-0-1	NUMBER 1	REY []
	PRINTED CIRCUIT REV []							A		
	DEC FORM NO.									

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UNLESS OTHERWISE INDICATED:
 CAPACITORS ARE .01 MFD
 DIODES ARE D664
 RESISTORS ARE 1/4W, 5%
 TRANSISTORS ARE DEC3009B
 E1, E3, E4 ARE DEC7400N
 PIN 7 ON EACH IC = GND
 PIN 14 ON EACH IC = +5V
 E2 IS DEC7460N

DRN. <i>M. Walker</i>	DATE 9-28-67
CHK'D <i>R. ...</i>	DATE 11-2-67
ENG. <i>J. ...</i>	DATE 11-2-67
PROD.	DATE

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

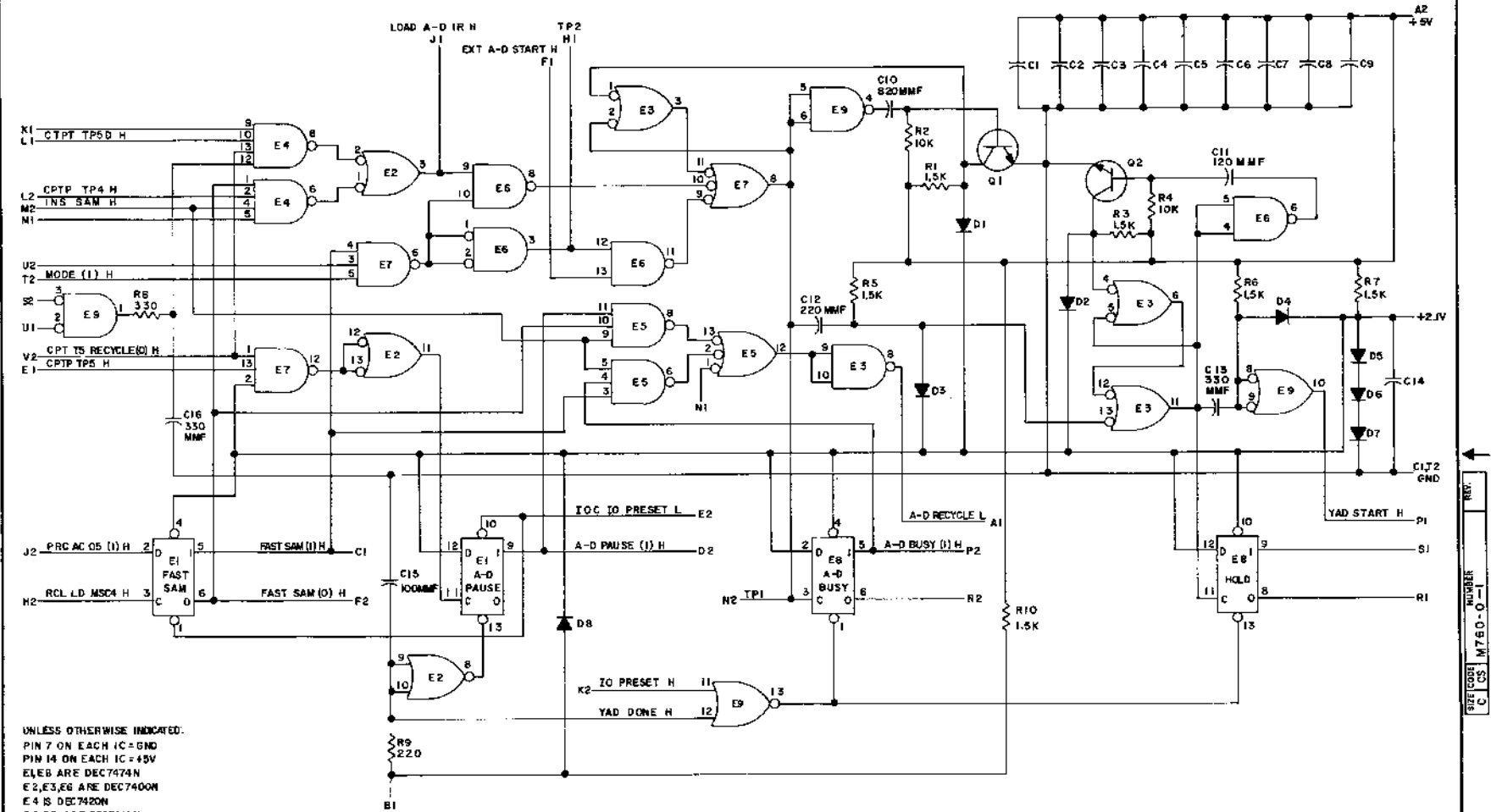
digital EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

TITLE: MEMORY DETECTION M720

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

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

REV. NUMBER
 C1760-0-1

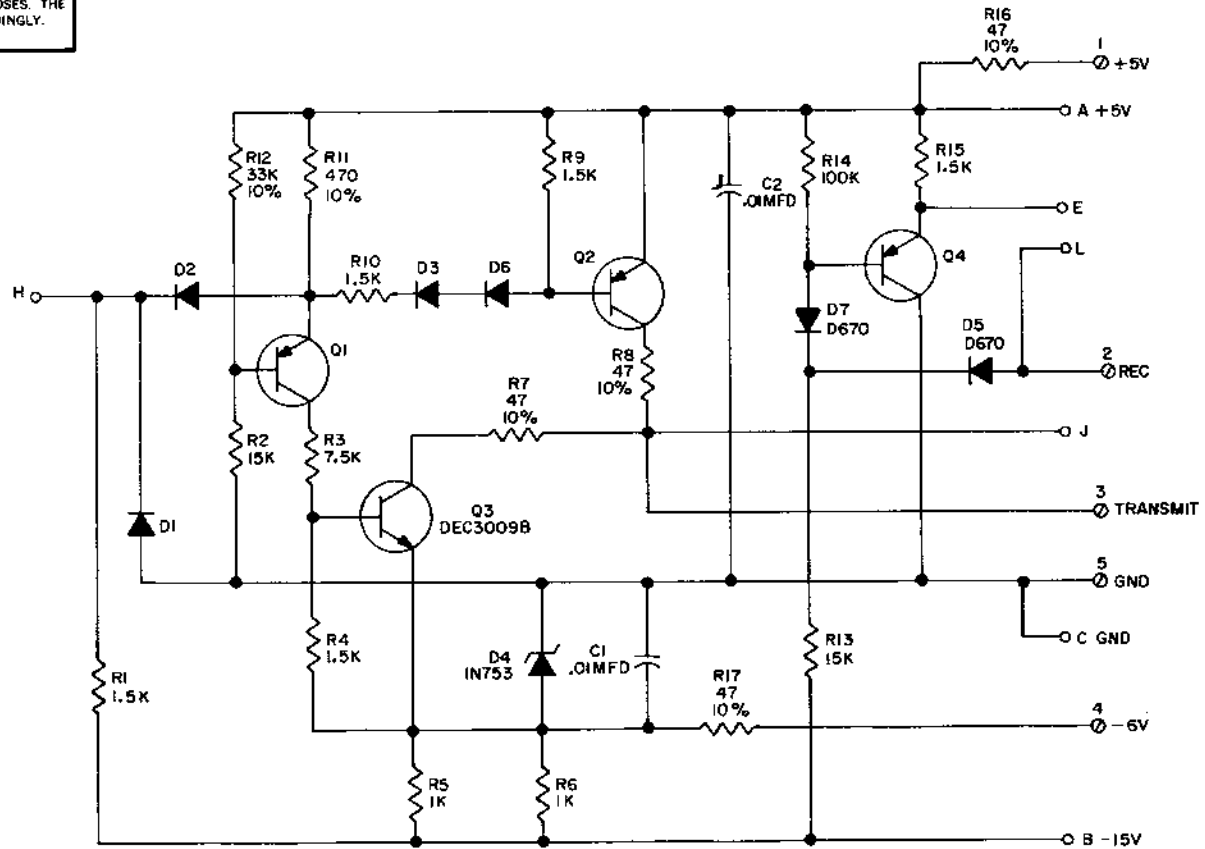
REVISIONS CHG NO. REV	DATE	TRANSISTOR & DIODE CONVERSION CHART				TITLE A-D CONTROL M760
	DATE	DEC	DA	DEC	DA	
DATE	DEC 4	IN 36 06				SUPP. CODE C CS
DATE	3X C1009B	283009B				NUMBER M760-0-1
DATE						REV. A

DEC FORM NO. 100

DIST. 307, 739, 935 PINK 5/

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

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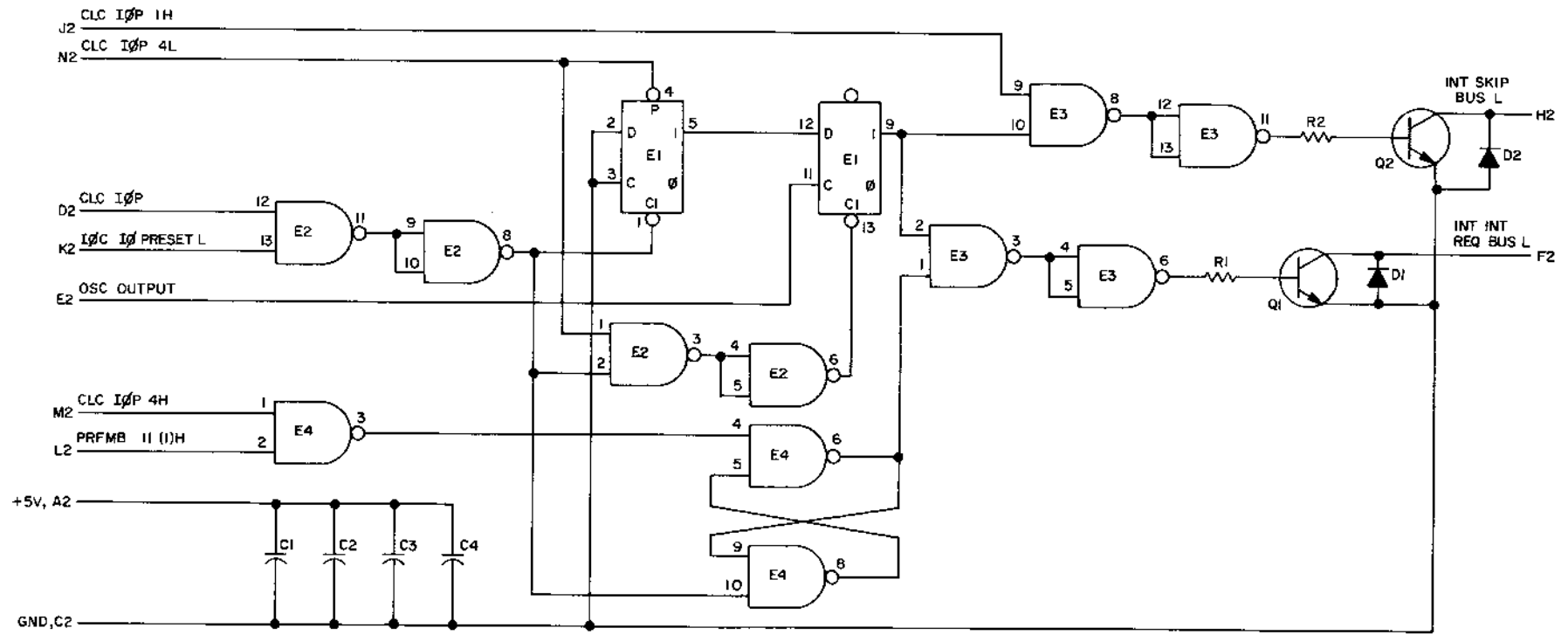


UNLESS OTHERWISE INDICATED:
 ○ ARE SPLIT LUGS
 RESISTORS ARE 1/4W, 5%
 DIODES ARE D664
 TRANSISTORS ARE DEC6534B

REVISIONS CHK/CHG NO/REV 00001 A	DRN: BUTLER	DATE: 6/2/69	TRANSISTOR & DIODE CONVERSION CHART				digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE: CONVERTER AND CABLE CONNECTOR M850			REV. A
	CHK'D: M. M. [Signature]	DATE: 6/1/69	DEC	EIA	DEC	EIA		SIZE B	CODE CS	NUMBER M850-0-1	
	ENG: [Signature]	DATE: 6/3/69	DEC6534B	MP6534							
	PRD: [Signature]	DATE: 10/1/69	DEC3009B	2N3009							
			D664	IN3606							
			D670	IN3653							

REV NUMBER M870-0-1 SIZE CODE B CS

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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

REV	CHG NO	CHK'D	DRN	DATE
			BUTLER	1-19-70

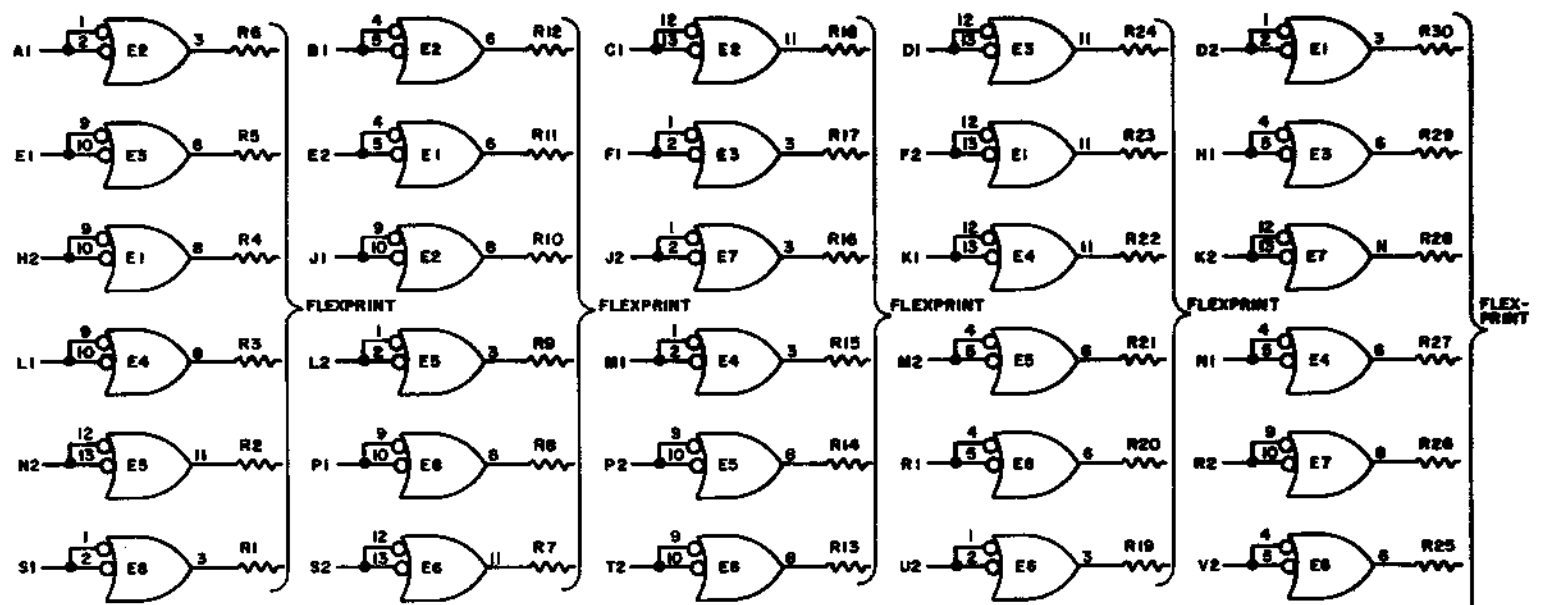
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DFC	FIA
D664	1N3606		
DEC3009B-S	2N3009B		

digital		EQUIPMENT CORPORATION		MAYNARD, MASSACHUSETTS	
TITLE: SIMPLE CLOCK M870					
SIZE	CODE	NUMBER	REV		
B	CS	M870-0-1			
PRINTED CIRCUIT REV			A		

↓

1-0-008W 30 8
UNION

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



UNLESS OTHERWISE INDICATED:
 IC'S ARE DEC7400N
 RESISTORS ARE 470, 1/4W, 10%
 PIN 7 ON EACH IC = GND
 PIN 14 ON EACH IC = +5V



PARTS LIST IS A-PL-M900-0-0

REVISIONS CHG. NO. REV. DATE BY 1 4 7/15/67 2 4 7/15/67 3 4 7/15/67	DRN. DATE 9-8-67 Dr. Miller	TRANSISTOR & DIODE CONVERSION CHART				TITLE PDP-8-1 CONSOLE CONNECTOR M900
	CHG. DATE 7/15/67 Miller	DEC EIA DEC EIA	EQUIPMENT CORPORATION MAYFORD, MASSACHUSETTS		SIZE B CS NUMBER M900-0-1 REV. B	
	PRG. DATE 7/15/67 Miller	DEC EIA DEC EIA	PRINTED CIRCUIT REV. CD		DIST. 324,434,435 3	

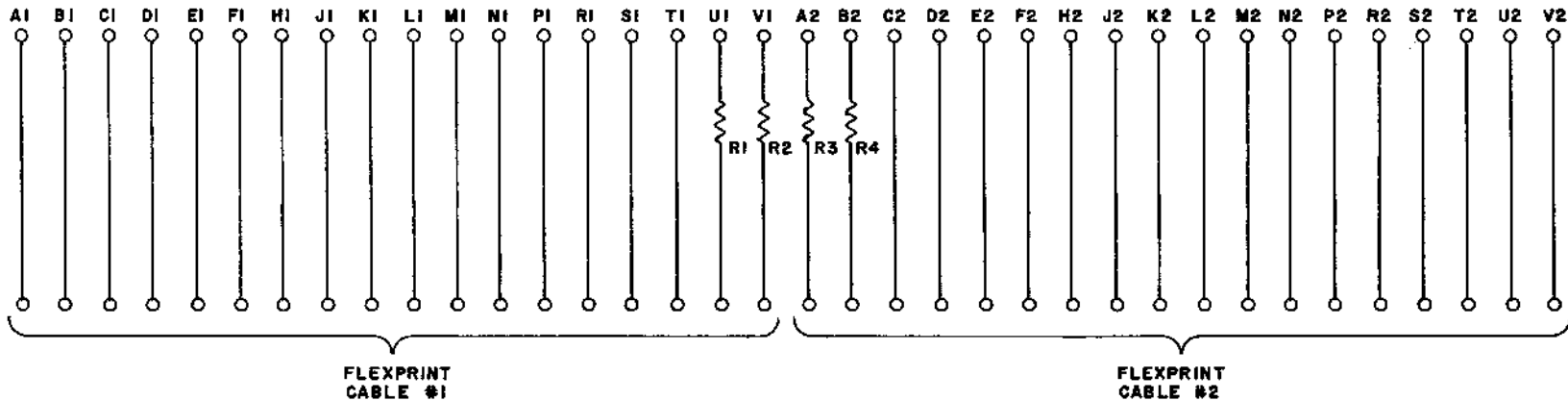


DISTR. 324,434,435 3 \pm PINK

↓

REV. C	NUMBER M901-0-1	B CS	B
		SIZE	SIZE

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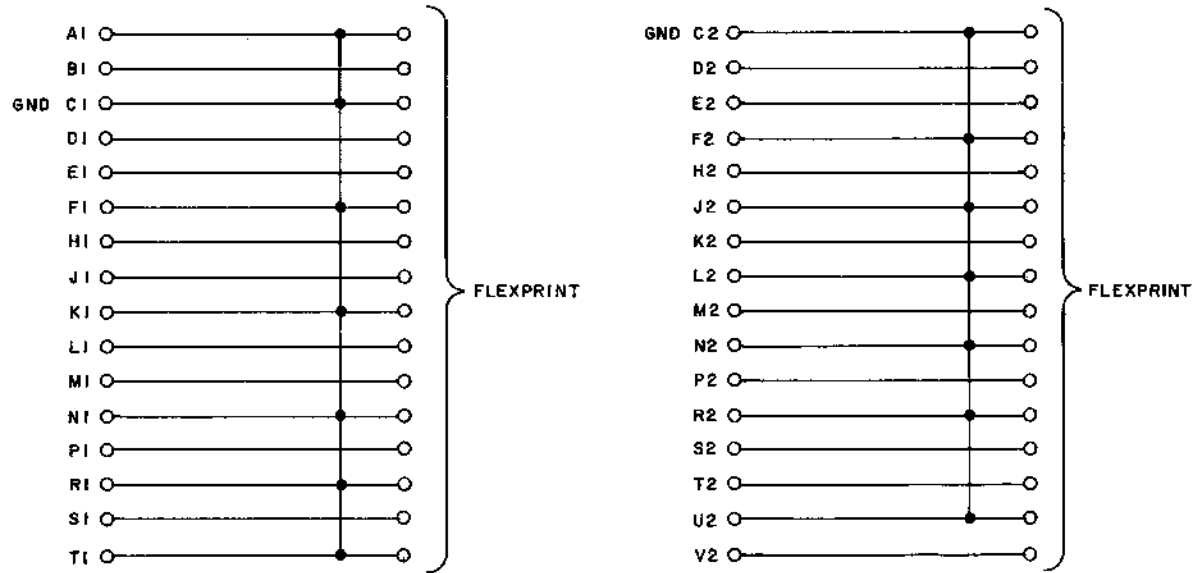


R1-R4	RES. 10 1/4W 10% CC	1300170
	PARTS LIST	A-PL-M901-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

REVISIONS CHK CHG NO. REV. C 00001	DRN <i>M. Waller</i>	DATE 8-11-68	TRANSISTOR & DIODE CONVERSION CHART					TITLE FLEXPRINT CABLE CONNECTOR M901			
	CHK'D <i>[Signature]</i>	DATE 8-19-68	DEC	EIA	DEC	EIA		SIZE B CS	CODE M901-0-1	NUMBER	REV. C
	ENG <i>[Signature]</i>	DATE 11/5/68						PRINTED CIRCUIT REV. B C			
	PROD.	DATE									

REV	NUMBER	CS	B	SIZE
	M903-0-1			

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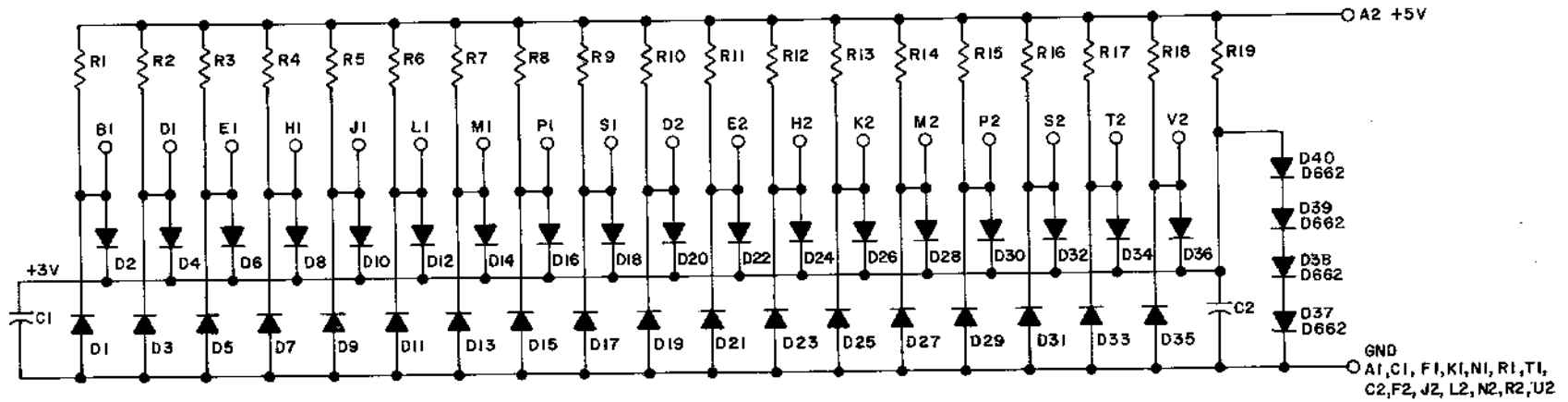


PARTS LIST IS A-PL-M903-0-0

REVISIONS CHK CHG NO. REV.	DRN. <i>M. Rafter</i>	DATE 7-2-68	TRANSISTOR & DIODE CONVERSION CHART				digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE CONNECTOR (FLEXPRINT) M903			
	CHK'D <i>W. J. Kelly</i>	DATE 7-3-68	DEC	EIA	DEC	EIA		SIZE B	CODE CS	NUMBER M903-0-1	REV.
	ENG <i>W. J. Kelly</i>	DATE 7/12/68						PRINTED CIRCUIT REV.	A		
	PROD.	DATE									

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%

REVISIONS	CHK'D NO. REV.	
	REV. B RIEDR.	00001 B

DRN. M. HALLER	DATE 8-2-68
CHK'D W. MULLEN	DATE 9-2-68
ENG. O.A. WHITE	DATE 10-16-68
PROD.	DATE

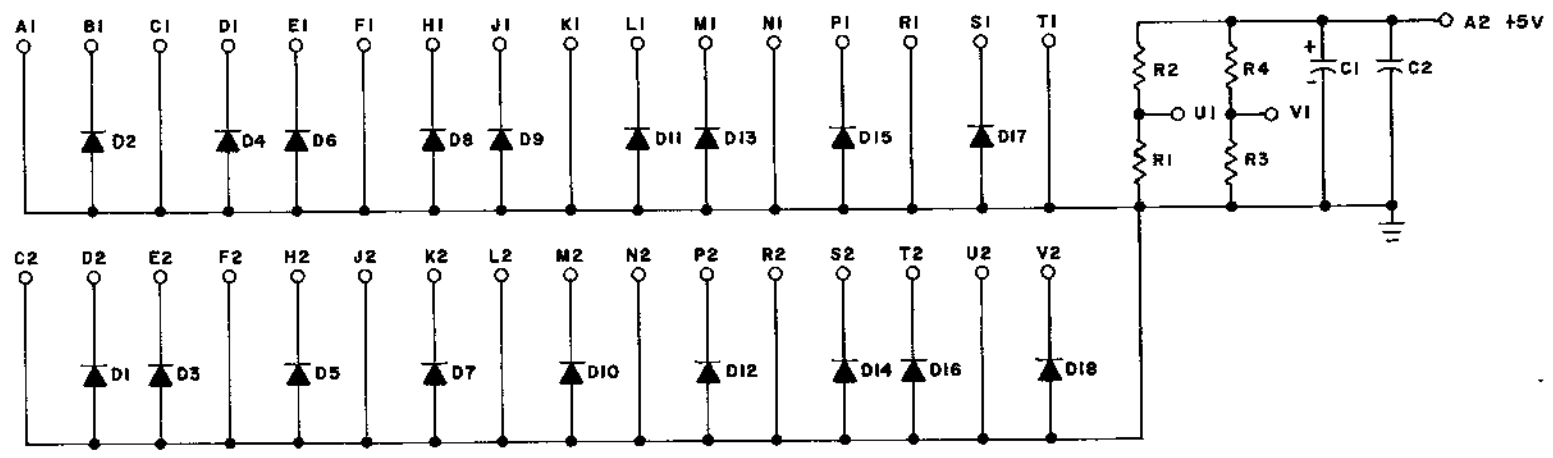
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D662	1N645		
D664	1N3608		

digital
 EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

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

REVISIONS CHK CHG NO. REV.	DRN. <i>m. Waller</i>	DATE 8-9-68
	CHK'D <i>M. J. Feltner</i>	DATE 8-9-68
	ENG. <i>F. J. ...</i>	DATE 9/11/68
	PROD.	DATE

TRANSISTOR & DIODE CONVERSION CHART			
	DEC	EIA	
D664		IN3606	

digital
EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

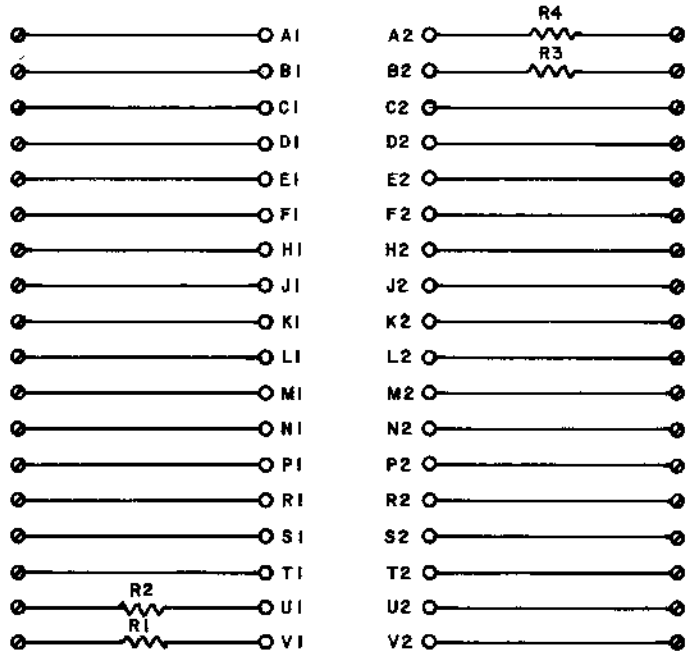
TITLE
DIODE CLAMP M907

SIZE	CODE	NUMBER	REV.
B	CS	M907-0-1	

PRINTED CIRCUIT REV. A

REV. NUMBER B CS M908-0-1 SIZE CODE

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⊙ SPLIT LUG

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

REVISIONS	CHK/CHG NO.	REV.

DRN	DATE
<i>M. Walker</i>	9-27-68
CHK'D	DATE
<i>M. Walker</i>	9-27-68
ENG.	DATE
<i>J. H. 99</i>	1/15/68
PROD.	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital
EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

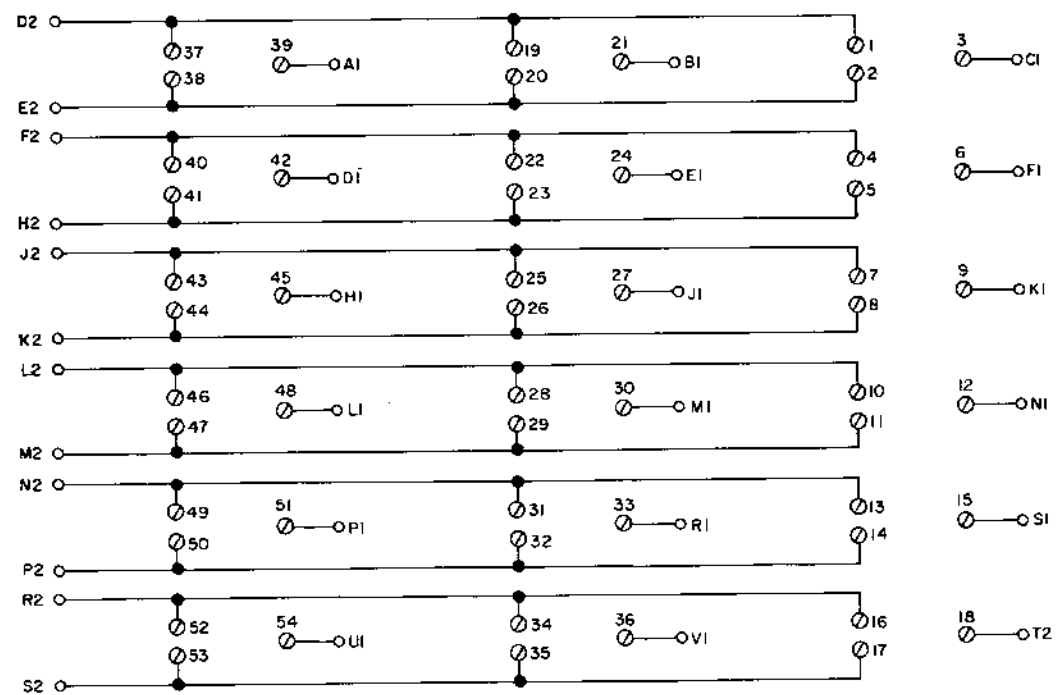
TITLE			
CONNECTOR MODULE M908			
SIZE	CODE	NUMBER	REV.
B	CS	M908-0-1	
PRINTED CIRCUIT REV.			
B			

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PIN SIGNAL ASSIGNMENTS

OUT			
DEVICE A	DEVICE B	DEVICE C	SIGNAL
A1	B1	C1	MB3
D1	E1	F1	MB4
H1	J1	K1	MB5
L1	M1	N1	MB6
P1	R1	S1	MB7
U1	V1	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)

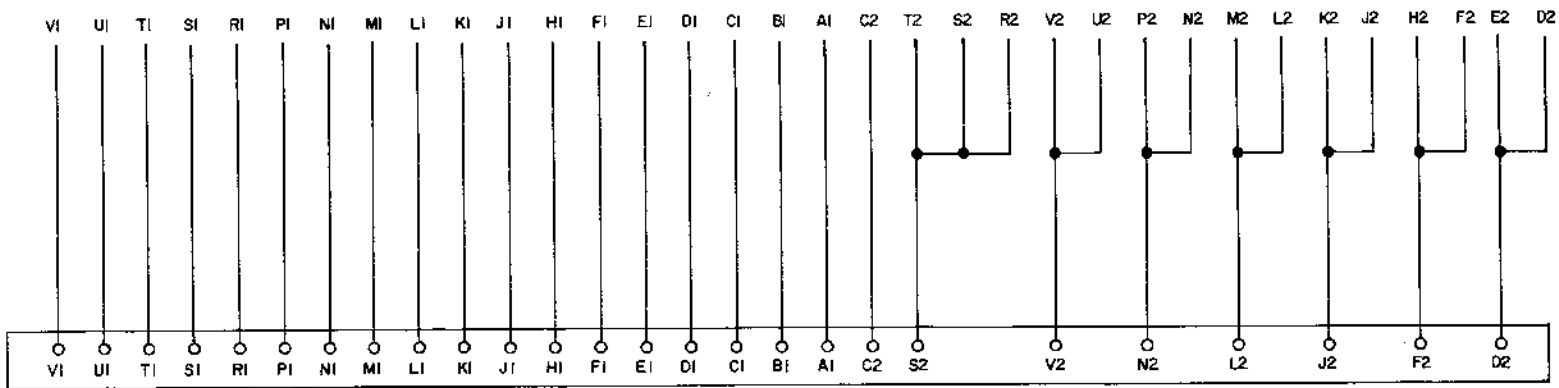


UNLESS OTHERWISE INDICATED:
 ⓪ ARE SPLIT LUGS

REVISIONS CHK/CHG NO. REV.	DRN <i>BUTLER</i>	DATE <i>1/6/69</i>	TRANSISTOR & DIODE CONVERSION CHART				digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE DEVICE CODE SELECT JUMPER BOARD			
	CHK'D <i>C. J. Hakala</i>	DATE <i>2/2/69</i>	DEC	EIA	DEC	EIA		SIZE B	CODE CS	NUMBER M921-0-1	REV
	END. TC <i>Dearden</i>	DATE <i>1/29/69</i>						PRINTED CIRCUIT REV. B			
	PROD.	DATE									

REV. NUMBER M941-0-1 SIZE CODE B CS

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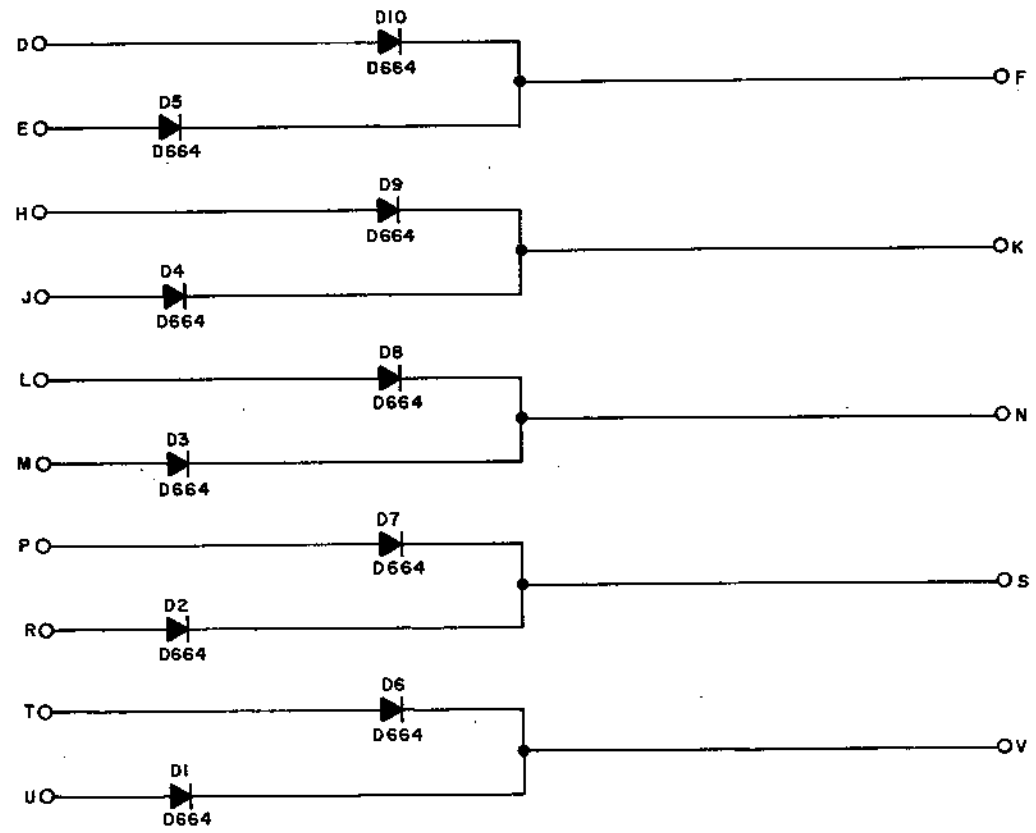


CONNECTOR 7900-0155-0

REVISIONS CHK/CHG NO. / REV.	DRN NANCY MOORE	DATE 4/19/70	TRANSISTOR & DIODE CONVERSION CHART				digital EQUIPMENT CORPORATION WATNARD MASSACHUSETTS	TITLE JUMPER/EXTENDER BOARD M941			
	CHK'D	DATE	DEC	EIA	DEC	EIA		SIZE B	CODE CS	NUMBER M941-0-1	REV.
	ENG E. L. ...	DATE									
	PROB P. ...	DATE									
PRINTED CIRCUIT REV							A				

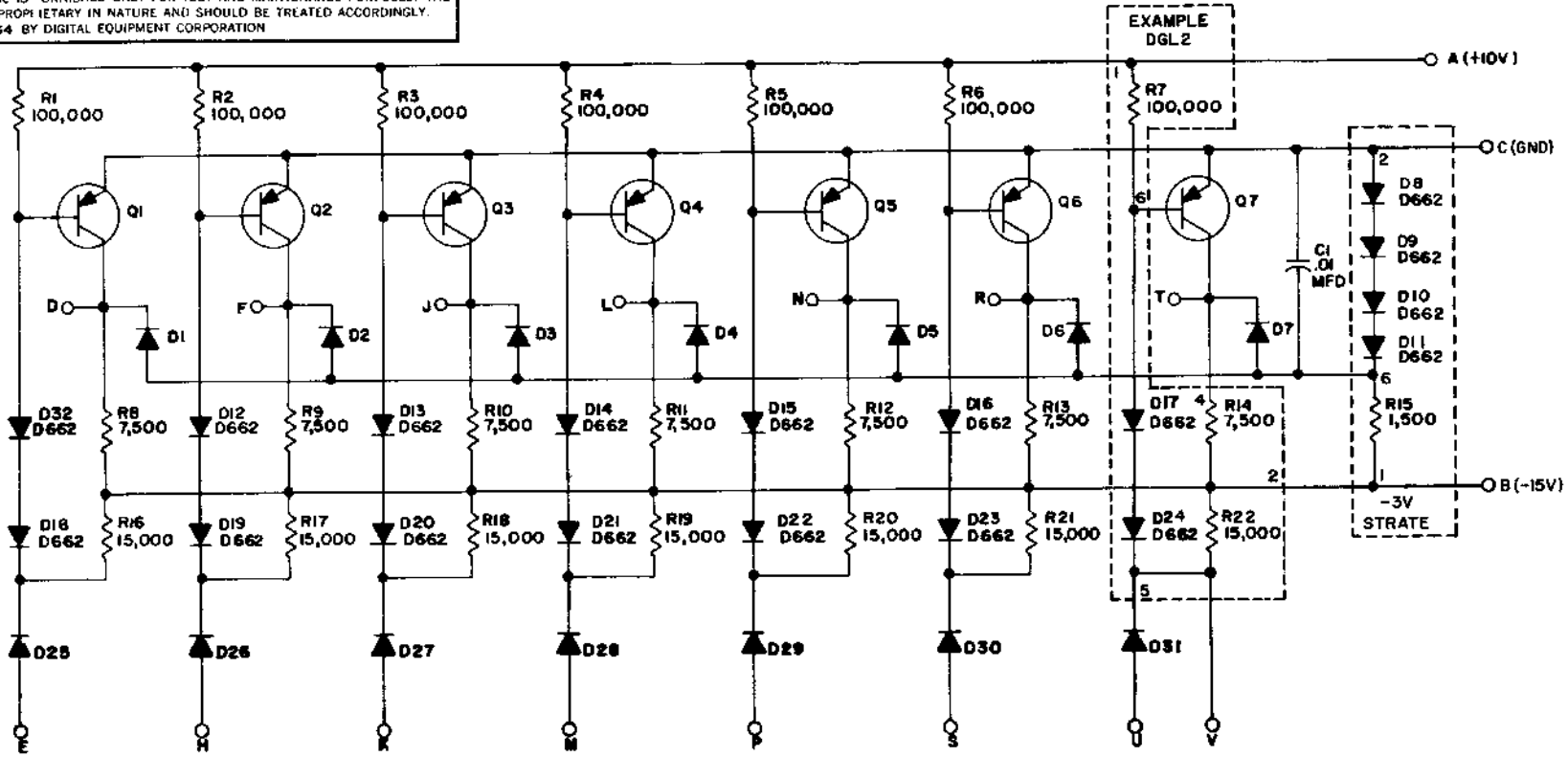
REV	A	NUMBER	R002-0-1	CS	B	SIZE
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REVISIONS CHK'D REGR 5557 A	DRN. H. PORTER	DATE 5-21-64	TRANSISTOR & DIODE CONVERSION CHART				TITLE DIODE CLUSTER R002				
	CHK'D N. PERRYMAN	DATE 5-25-64	DEC	EIA	DEC	EIA	digital	SIZE	CODE	NUMBER	REV
	ENG R. BANK	DATE 5-25-64	D664	IN3606			EQUIPMENT CORPORATION	B	CS	R002-0-1	A
	PROD	DATE					MAYNARD, MASSACHUSETTS	PRINTED CIRCUIT REV. B			

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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

REVISONS	CHK	CHG	NO.	REV
	DMW	4863	1	
	REV	6/REDR		
	ENG	D WHITE	9-10-64	
	PROD.			

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

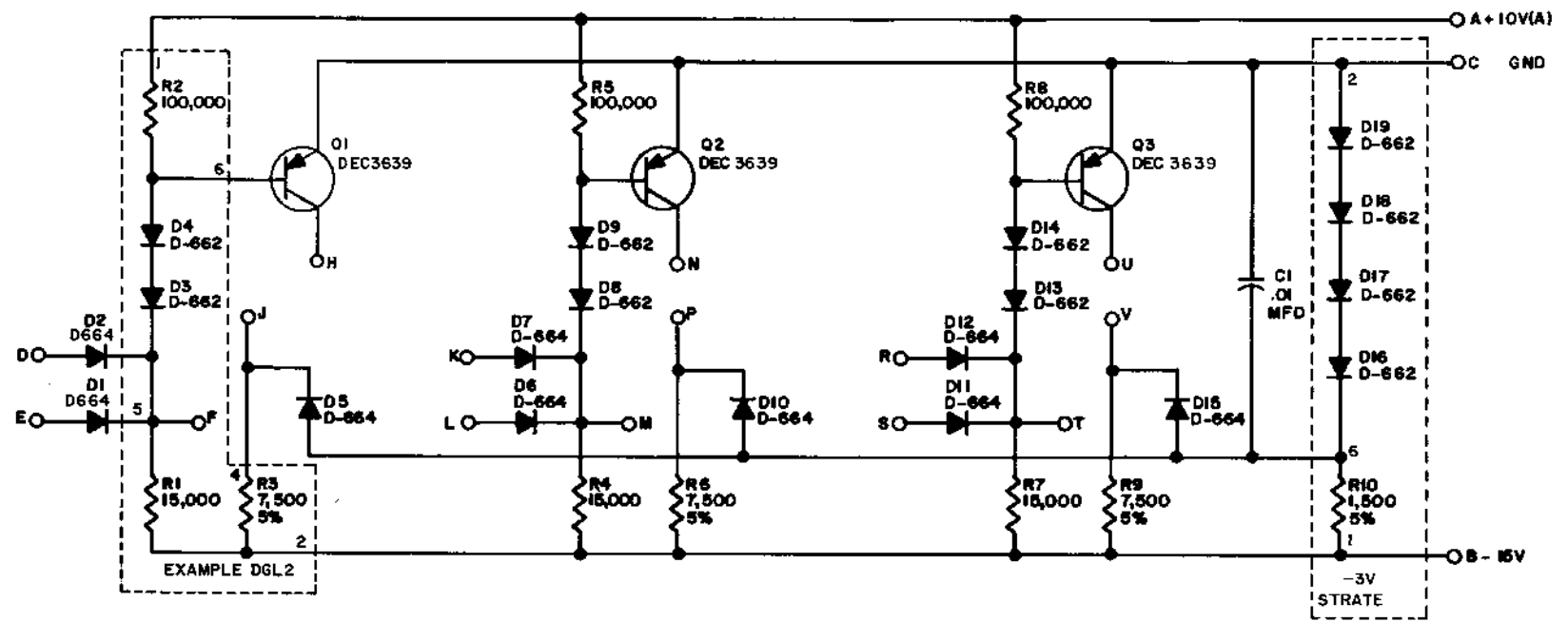
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC 3639B	2N3639		
D662	IN645		
D664	IN3606		



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

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

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

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

REVISIONS	CHK	CHG	NO	IRLV
1	DAW	4756		
2	REVISED			
3	REVISED	5570		
4	REVISED	5488		
5	REVISED	6034		

DRN.	DATE
H PORTER	5-15-64
CHK'D	DATE
N. PERRYMAN	5-25-64
ENG	DATE
R. BANK	5-25-64
PROG.	DATE

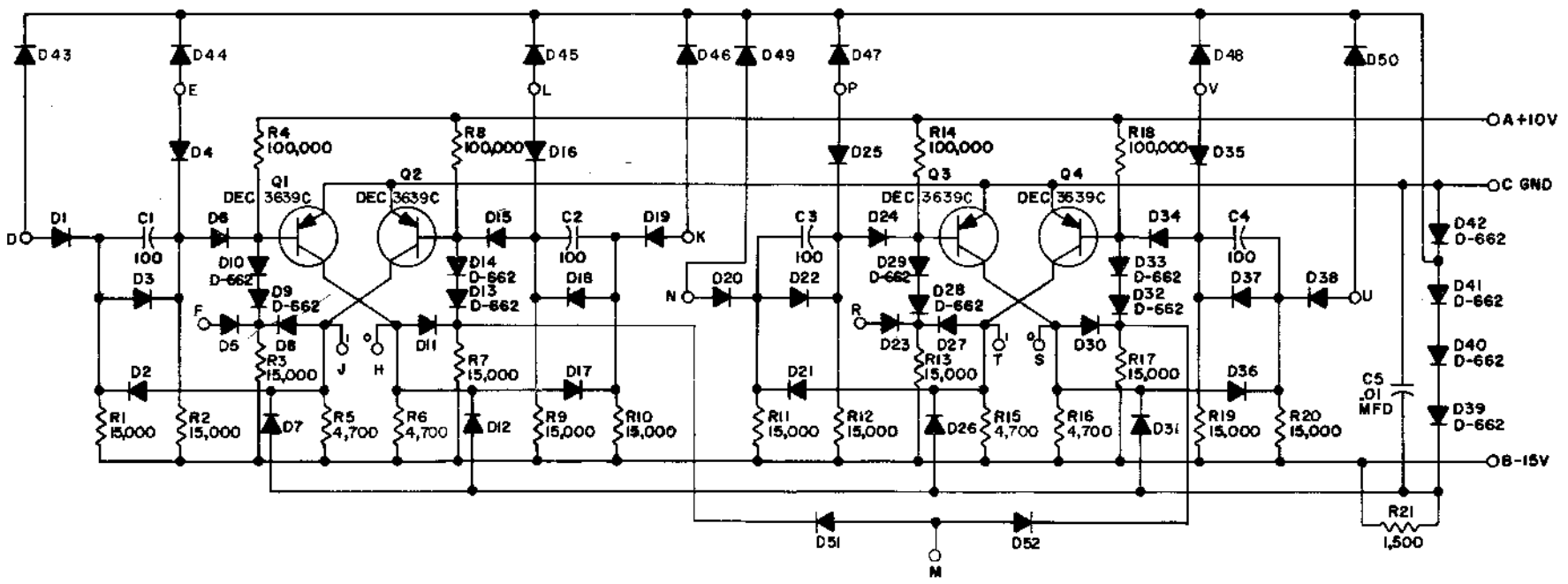
TRANSISTOR & DIODE CONVERSION CHART			
DEC		EIA	
DEC3638	2N3639		
D652	1N645		
D664	1N3606		

digital
 EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

TITLE			
DIODE GATE RIII			
SIZE	CODE	NUMBER	REV.
B	CS	RIII-0-1	F
PRINTED CIRCUIT REV			
DEF			

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

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

 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

REV	CHG	NO	REV
4			
3			
2			
1			

DRN. A.QUELLETTE	DATE 6-18-64
CHK'D N.PERRYMAN	DATE 6-16-64
ENG R.BANK	DATE 6-22-64
PROD	DATE

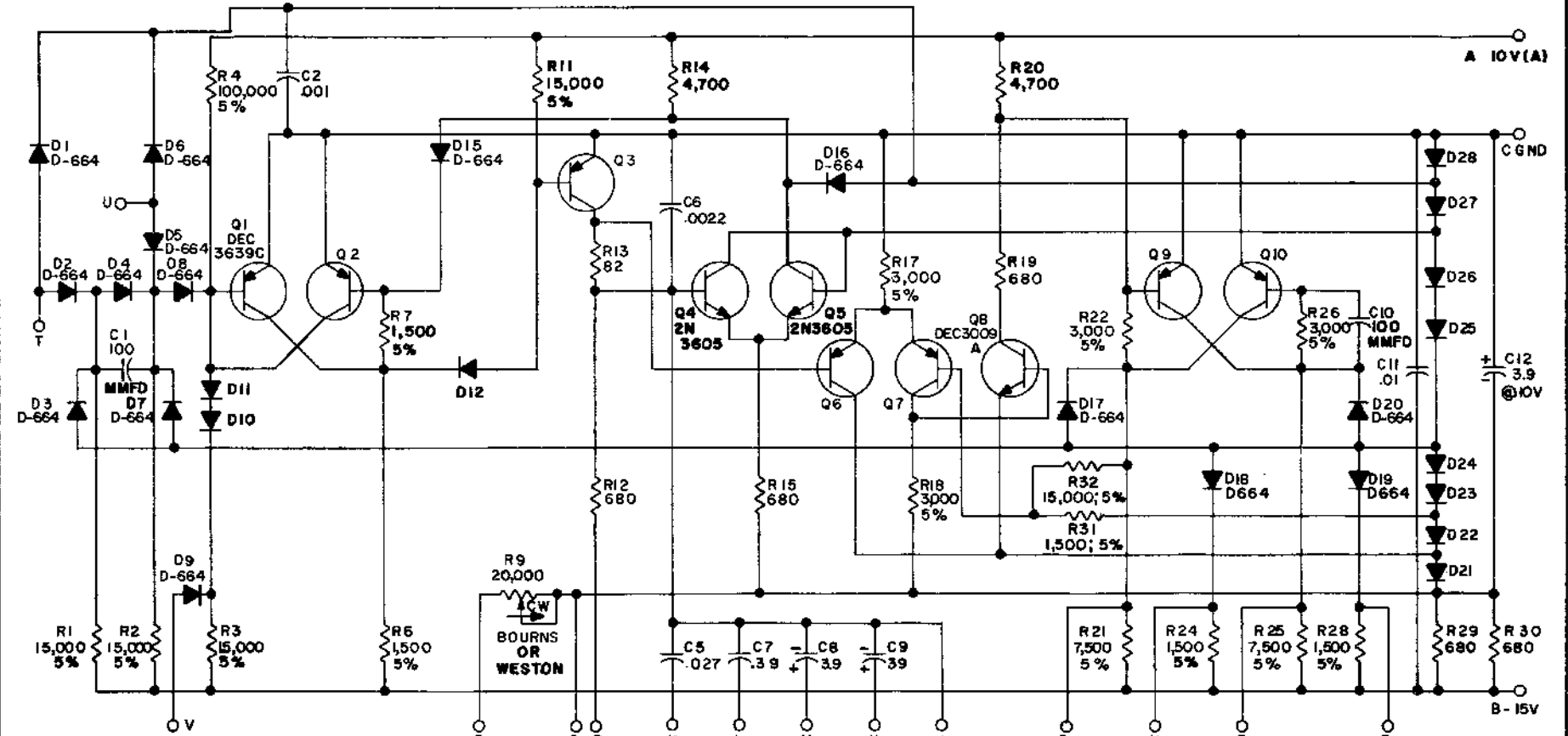
TRANSISTOR & DIODE CONVERSION CHART	
DEC	EIA
DEC3639C	2N3639
D662	1N545
D664	1N3606

digital	
EQUIPMENT CORPORATION	
WAYNARD, MASSACHUSETTS	

TITLE DUAL FLIP FLOP R202			
SIZE B	CODE CS	NUMBER R202-0-1	REV F
PRINTED CIRCUIT REV			DE

REV. K
 NUMBER 1-0-303-0-1
 SIZE CODE B CS
 B REV. K

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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	001	0
2	002	0
3	003	0
4	004	0
5	005	0
6	006	0
7	007	0
8	008	0
9	009	0
10	010	0

DRN L. NAHN	DATE 4-8-68
CHK'D R. SILVERMAN	DATE 4-18-68
ENG. R. DOANE	DATE 4-18-68
PROD.	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	LIA	DEC	FIA
DEC3639B	2N3639	DEC3639C	2N3639
DEC3009	2N3009		
2N3608	2N3608		
D662	1N666		
D664	1N3606		

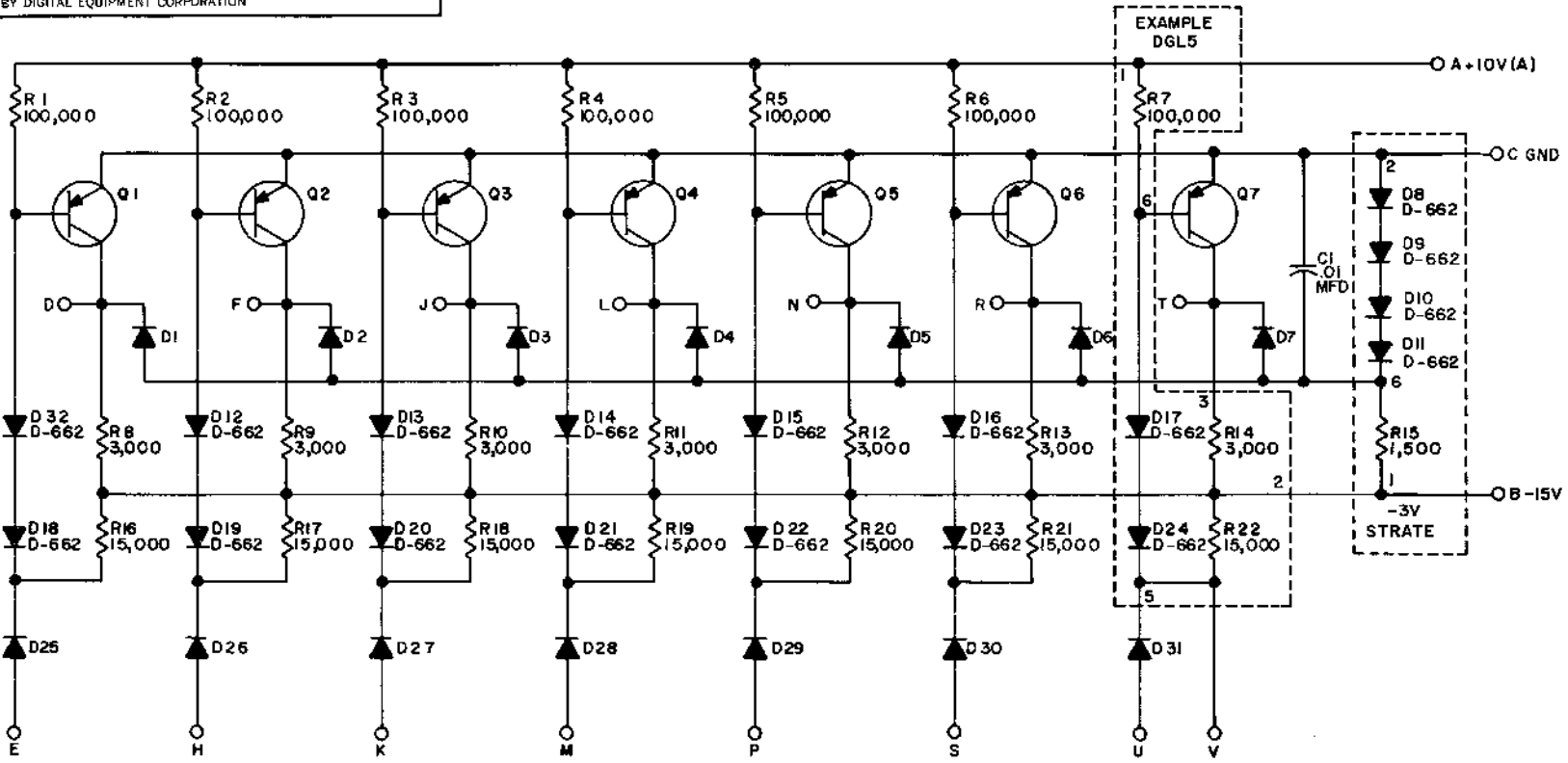
digital
 EQUIPMENT CORPORATION
 MAYNARD MASSACHUSETTS

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

PINK DIS 324 434 435

REV	D	NUMBER	1-0-1015	CS	B	SIZE	8
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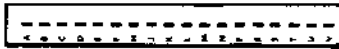
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EXAMPLE DGL5

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 R107

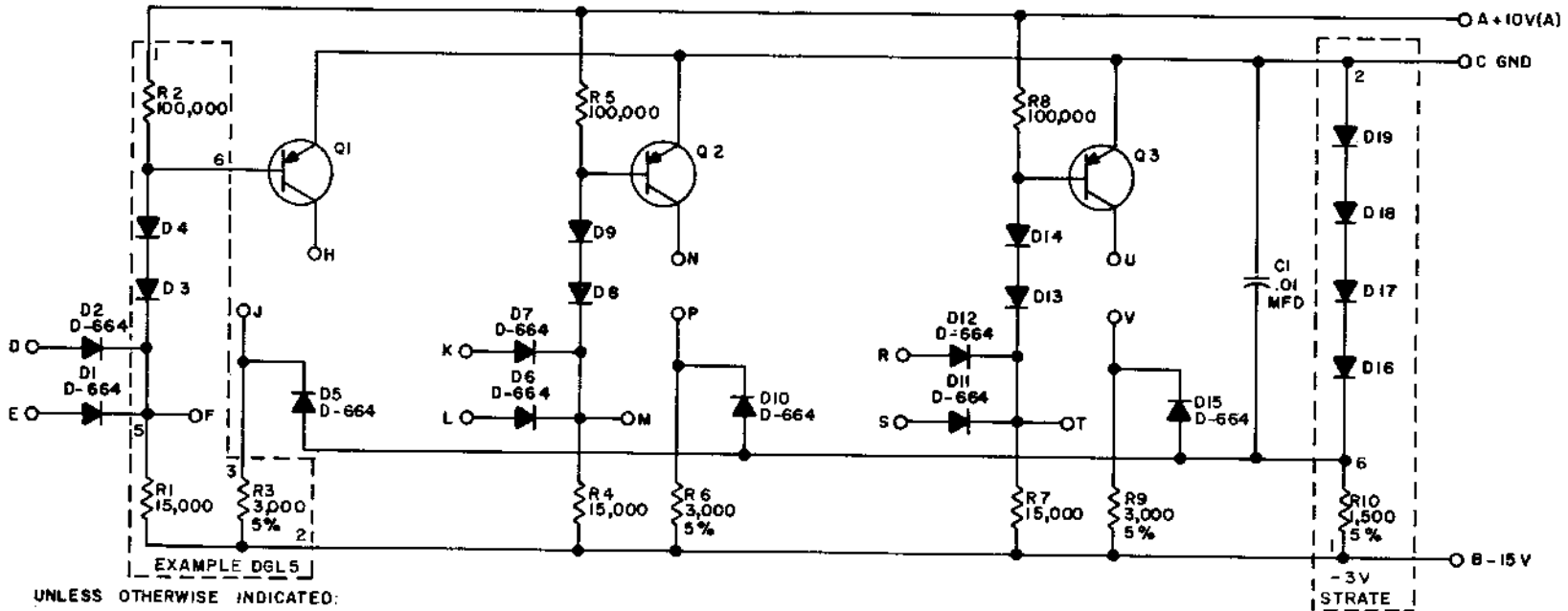


PARTS LIST A-PL-S107-0-0

REVISIONS CHK'D NO. REV 5384 5488 6887	B	C	D	DRN I HAHN	DATE 6-11-65	TRANSISTOR & DIODE CONVERSION CHART DEC EIA DEC EIA DEC 3639B 2N3639 D662 1N645 D664 1N3606				digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	TITLE INVERTER S107			REV D
				CHK'D R SILVERMAN	DATE 6-18-65				SIZE B		CODE CS	NUMBER S107-0-1		
				ENG R SOGGE	DATE 6-18-65				PRINTED CIRCUIT REV					
				PROD	DATE									

SIZE CODE B CS
 NUMBER III-0-1
 REV D

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UNLESS OTHERWISE INDICATED:
 TRANSISTORS ARE DEC 3639
 RESISTORS ARE 1/4W;10%
 DIODES ARE D-662
 PRINTED CIRCUIT REV. FOR DGL BOARD IS SIA

USE THE ETCH BOARD OF THE R111

REV	CHG NO	REV
1	6305	B
2	6460	D
3	6790	D

DRN	DATE
I HAHN	6-10-65
CHK'D	DATE
R SILVERMAN	6-18-65
ENG	DATE
R SOGGE	6-18-65
PROD.	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3639	2N2639		
D662	1N645		
D664	1N3606		

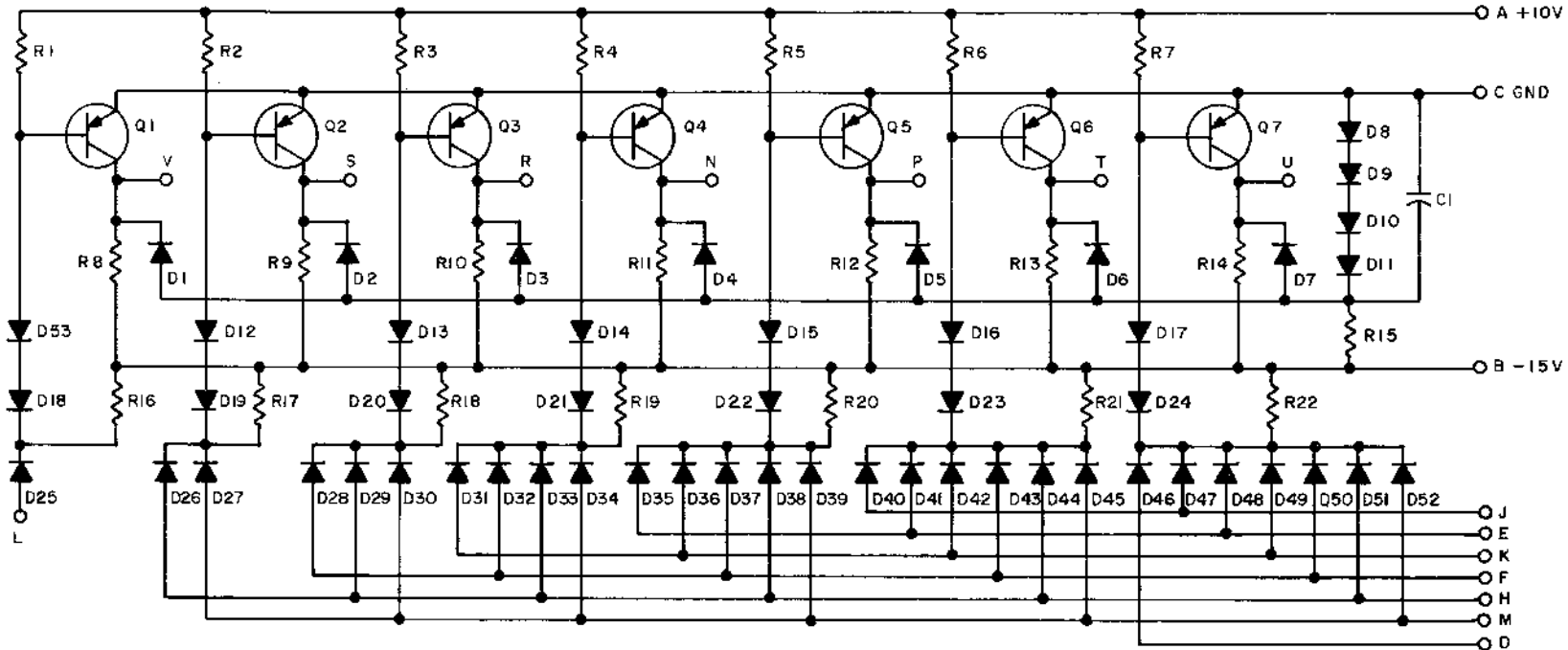
digital
 EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

TITLE			
DIODE GATE III			
SIZE	CODE	NUMBER	REV.
B	CS	III-0-1	D
PRINTED CIRCUIT REV			
D F			

↓

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

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USE THE ETCH BOARD OF THE S181

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.

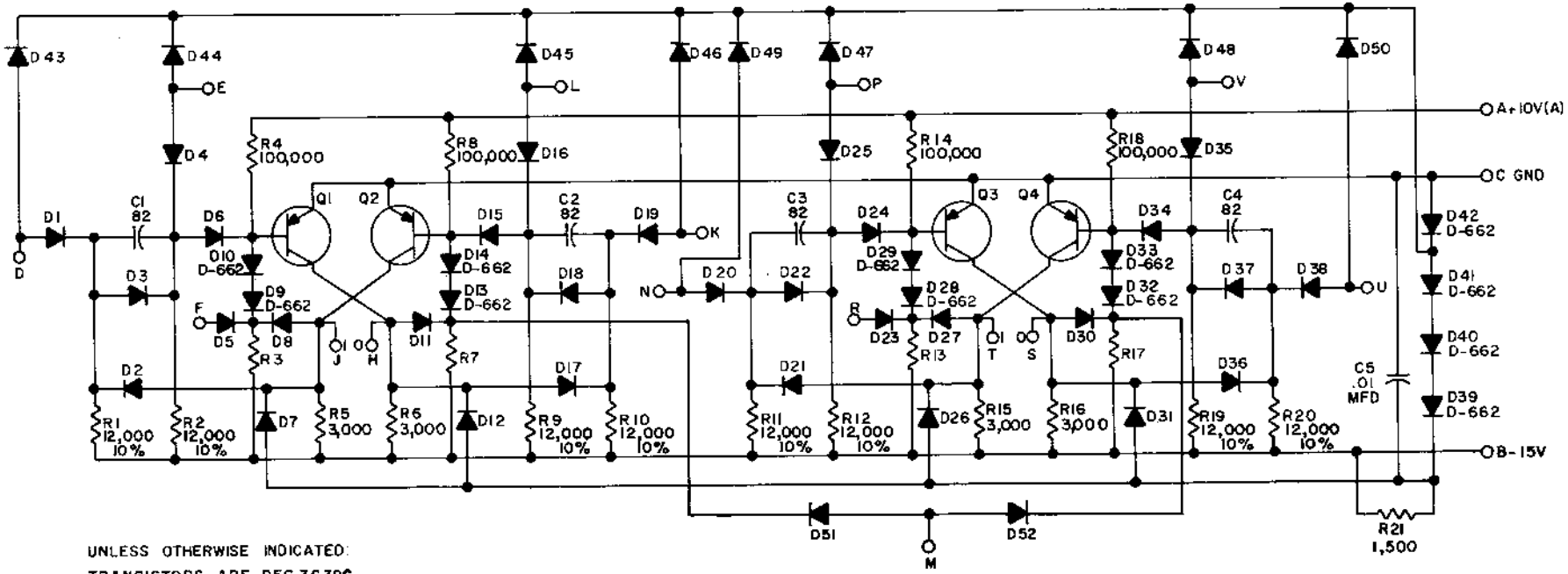
REVISIONS CHK'DG. NO. REV. REV. 6759 A	DRN. I. MAHN DATE 6-11-65	TRANSISTOR & DIODE CONVERSION CHART		digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE DC CARRY CHAIN S181		
	CHK'D R. SILVERMAN DATE 6-18-65	DEC DEC3639B D662 D664	EIA 2N3639 1N645 1N3606		SIZE B CS	CODE S181-0-1	NUMBER A

PRINTED CIRCUIT REV. C

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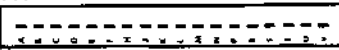
D	1-0-202S	CS	B
REV	NUMBER	CODE	SIZE

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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

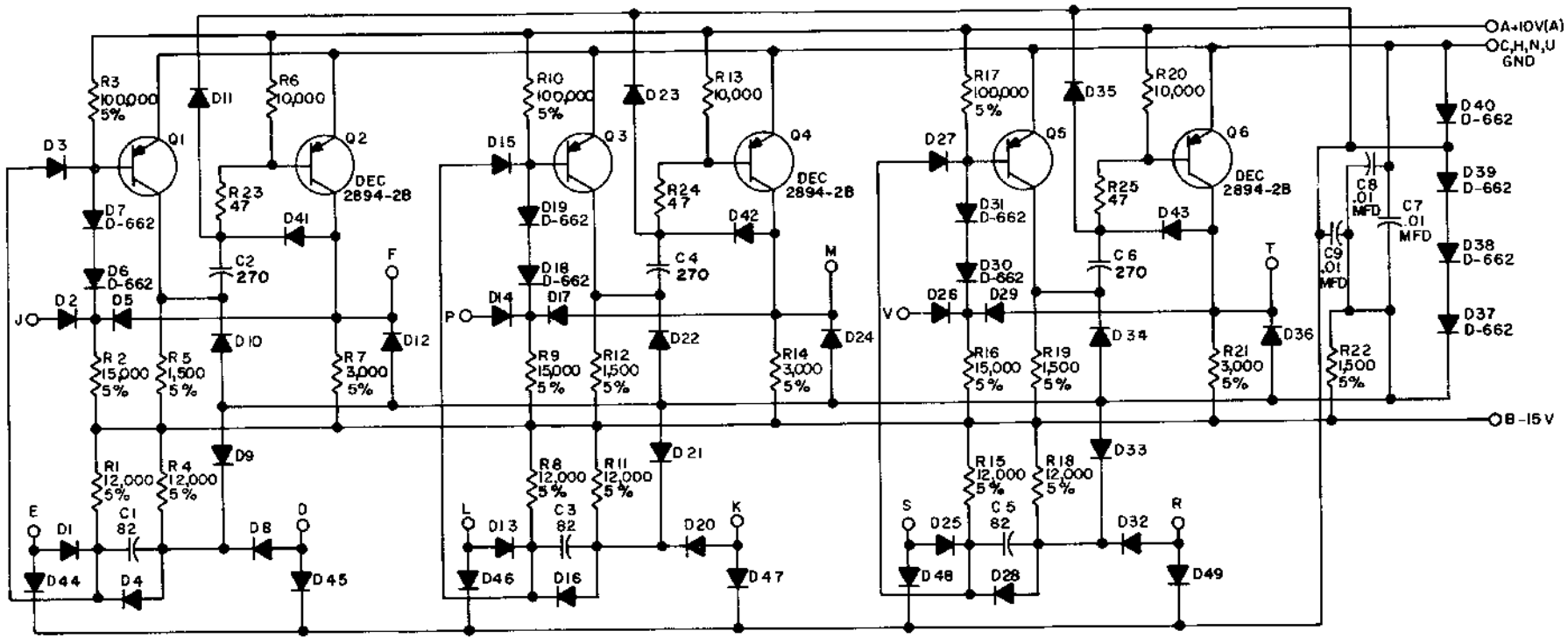


REVISIONS CHG NO. REV DAW 4984 REV. BY RDR. B 8469 8493 C 8683 D	DRN. L. MAHN DATE 6-15-65 CHK'D R. SIVERMAN DATE 6-18-65 ENG. R. SOGGE DATE 6-18-65 PROD.	DATE 6-15-65 DATE 6-18-65 DATE 6-18-65 DATE	TRANSISTOR & DIODE CONVERSION CHART <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">DEC</th> <th colspan="2">EIA</th> </tr> </thead> <tbody> <tr> <td>DEC 3639C</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> </tbody> </table>	DEC		EIA		DEC 3639C	2N3639			D662	1N645			D664	1N3606			TITLE digital DUAL FLIP-FLOP S202 EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	SIZE CODE NUMBER REV B CS S202-0-1 D
DEC		EIA																			
DEC 3639C	2N3639																				
D662	1N645																				
D664	1N3606																				



REV 3
 NUMBER S603-0-1
 CS B
 CODE CS
 SIZE B

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 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

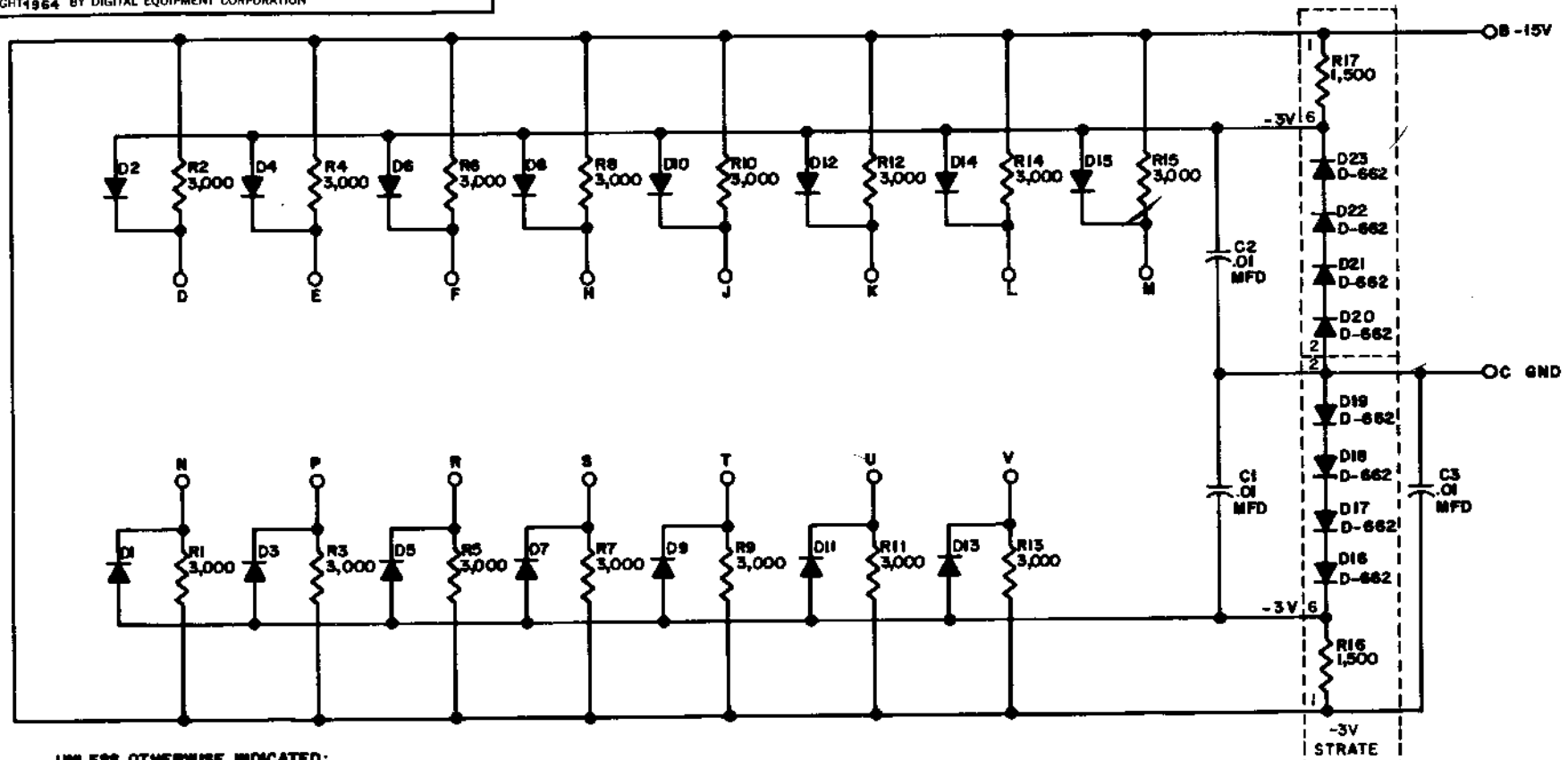
REVISIONS CRK CHG NO REV DAW 5273 2 REV 6371 C 5223 D 5889 E	OPN I NAHN	DATE 6-14-65	TRANSISTOR & DIODE CONVERSION CHART				digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE PULSE AMPLIFIER S603			
	CHK'D R SILVERMAN	DATE 6-18-65	DEC	EIA	DEC	EIA		SIZE B	CODE CS	NUMBER S603-0-1	REV. E
	ENG R. SDGGE	DATE 6-18-65	DEC 2894-2B	NONE				PRINTED CIRCUIT REV. D			
	PROD	DATE	DEC 3639C	2N3639							

DEC FORM NO. DRB 102

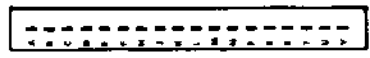
DIST. 324 434 435

REV B
 NUMBER WO05-0-1
 SIZE CODE B
 CS WO05-0-1

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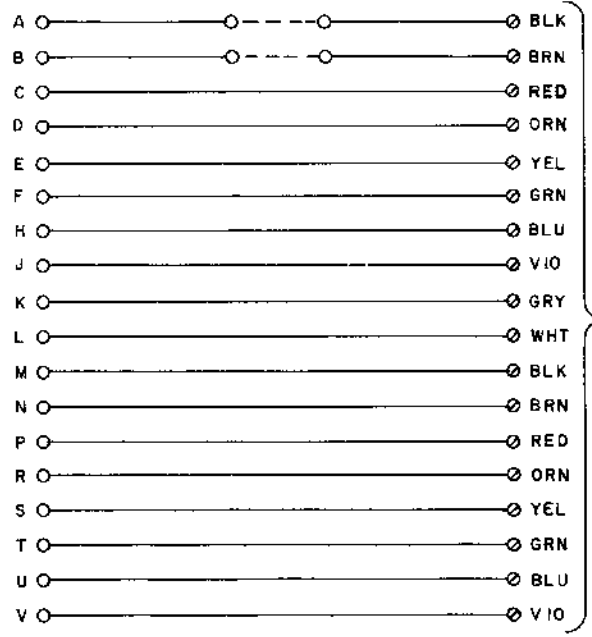
UNLESS OTHERWISE INDICATED:
 RESISTORS ARE 1/4W, 5%
 DIODES ARE D-664



REVISIONS CHK CHG NO REV DAW 5037 1 REV (REDR.) 5397 B	DRN. H. PORTER DATE 4-27-64	TRANSISTOR & DIODE CONVERSION CHART				TITLE CLAMPED LOADS WO05
	CHK'D M. PERRYMAN DATE 5-4-64	DEC D662 IN645	EIA D654 IN3506	DEC EIA	EIA		SIZE CODE NUMBER REV. B CS WO05-0-1 B
ENG. B. SCUDNEY DATE 5-4-64	PROD. DATE	EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS				PRINTED CIRCUIT REV. B

REV	NUMBER	CS	B	SIZE
	W023-0-1			

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RIBBON CABLE

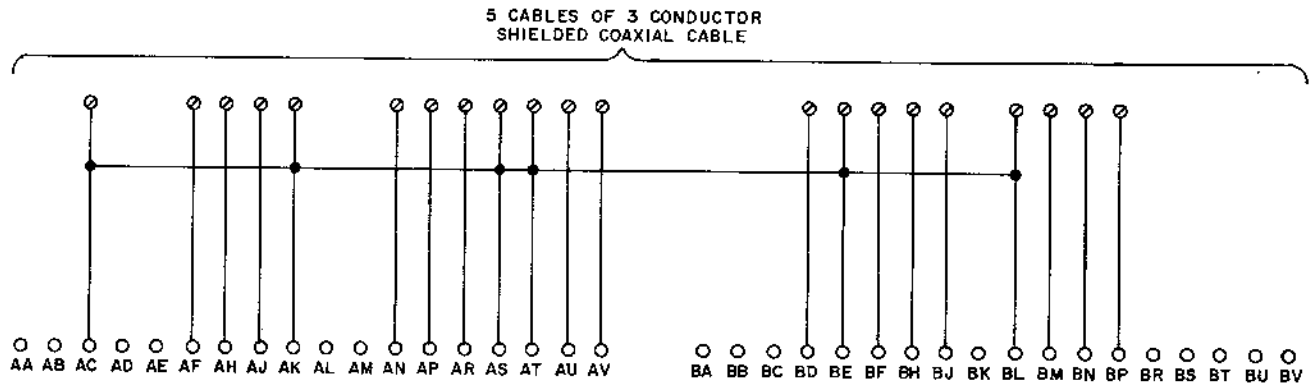
NOTE:
⊙ ARE SPLIT LUGS

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

REVISIONS CHK CHG NO. REV.	DRN <i>M. Halla</i>	DATE <i>12-16-68</i>	TRANSISTOR & DIODE CONVERSION CHART				 EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE CONNECTOR W023			
	CHK'D <i>M. Halla</i>	DATE <i>12-18-68</i>	DEC	EIA	DEC	EIA		SIZE B	CODE CS	NUMBER W023-0-1	REV.
	ENG. <i>J. Gidycz</i>	DATE <i>11-12-68</i>					PRINTED CIRCUIT REV. A				
	PROD.	DATE									

REV.	NUMBER	CODE	SIZE
	W032-0-1	B CS	B

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NOTE:
 ⊗ ARE SPLIT LUGS

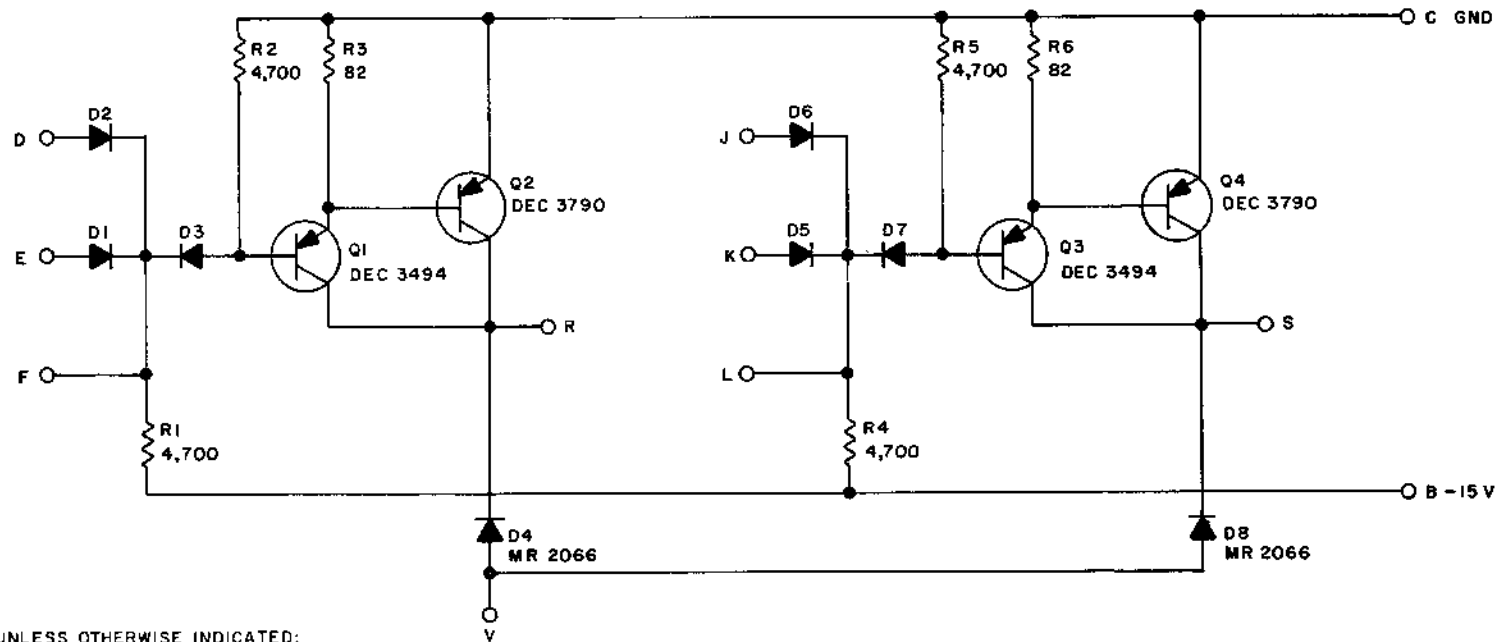
PARTS LIST IS A-PL-W032-0-0

REVISIONS CHK'DWG NO REV	DRN. <i>Dr. Walker</i>	DATE 10-16-68	TRANSISTOR & DIODE CONVERSION CHART				digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE CONNECTOR W032			
	CHK'D <i>Dr. Walker</i>	DATE 11-26-68	DEC	EIA	DEC	EIA		SIZE B	CODE CS	NUMBER W032-0-1	REV
	ENG. <i>Dr. Walker</i>	DATE 11-26-68									
	PROD.	DATE									
							PRINTED CIRCUIT REV. A				

DEC FORM NO. DRB 102

DIST: 434 435 359 PINK

RS-B-W040-2



UNLESS OTHERWISE INDICATED;
RESISTORS ARE 1/4W; 10%
DIODES ARE D-664

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC 3790	2N3790		
DEC 3494	2N3494		
D-664	1N645		
MR 2066	1N4003		

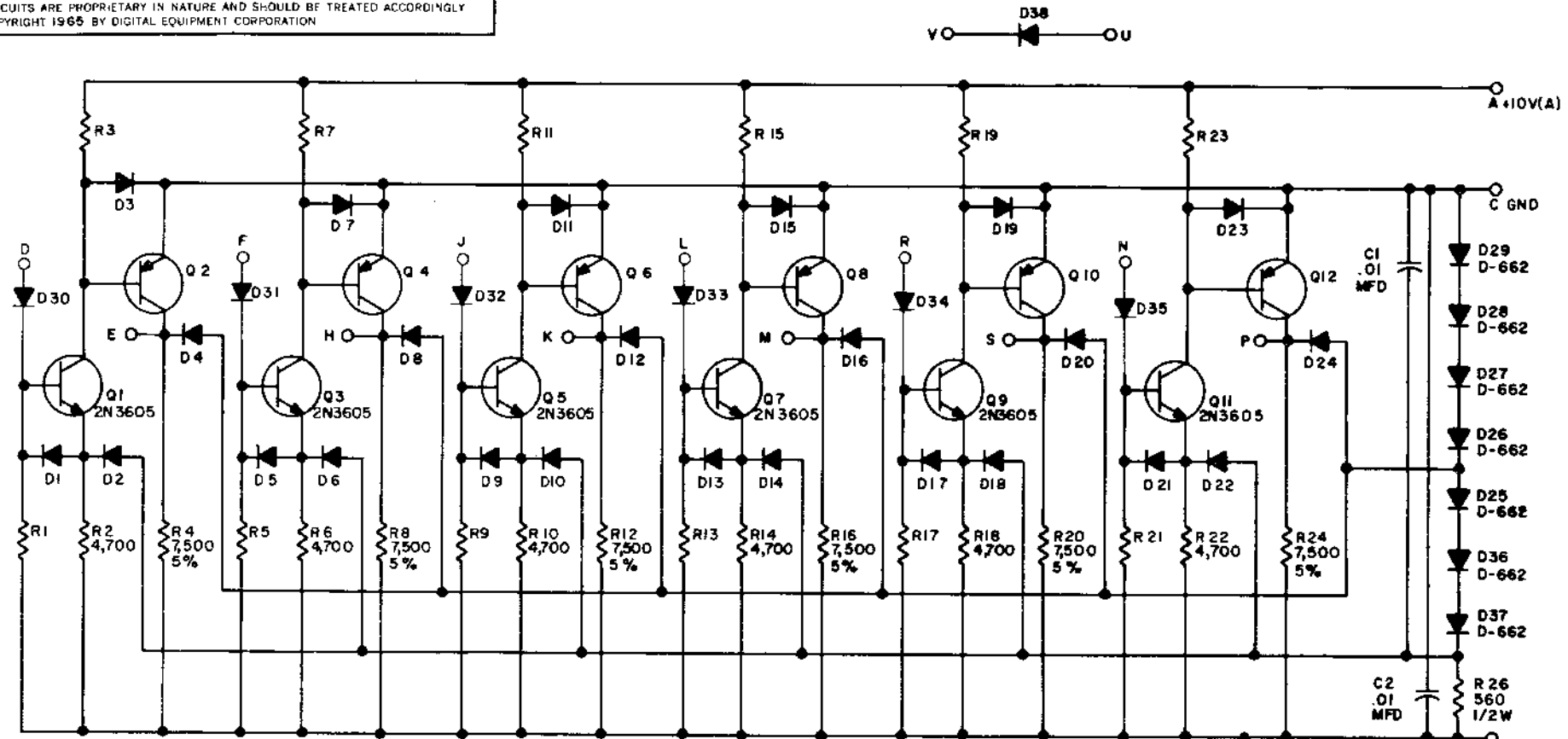
NOTES

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B	RS-B-W040	2
SOLENOID DRIVER W040		

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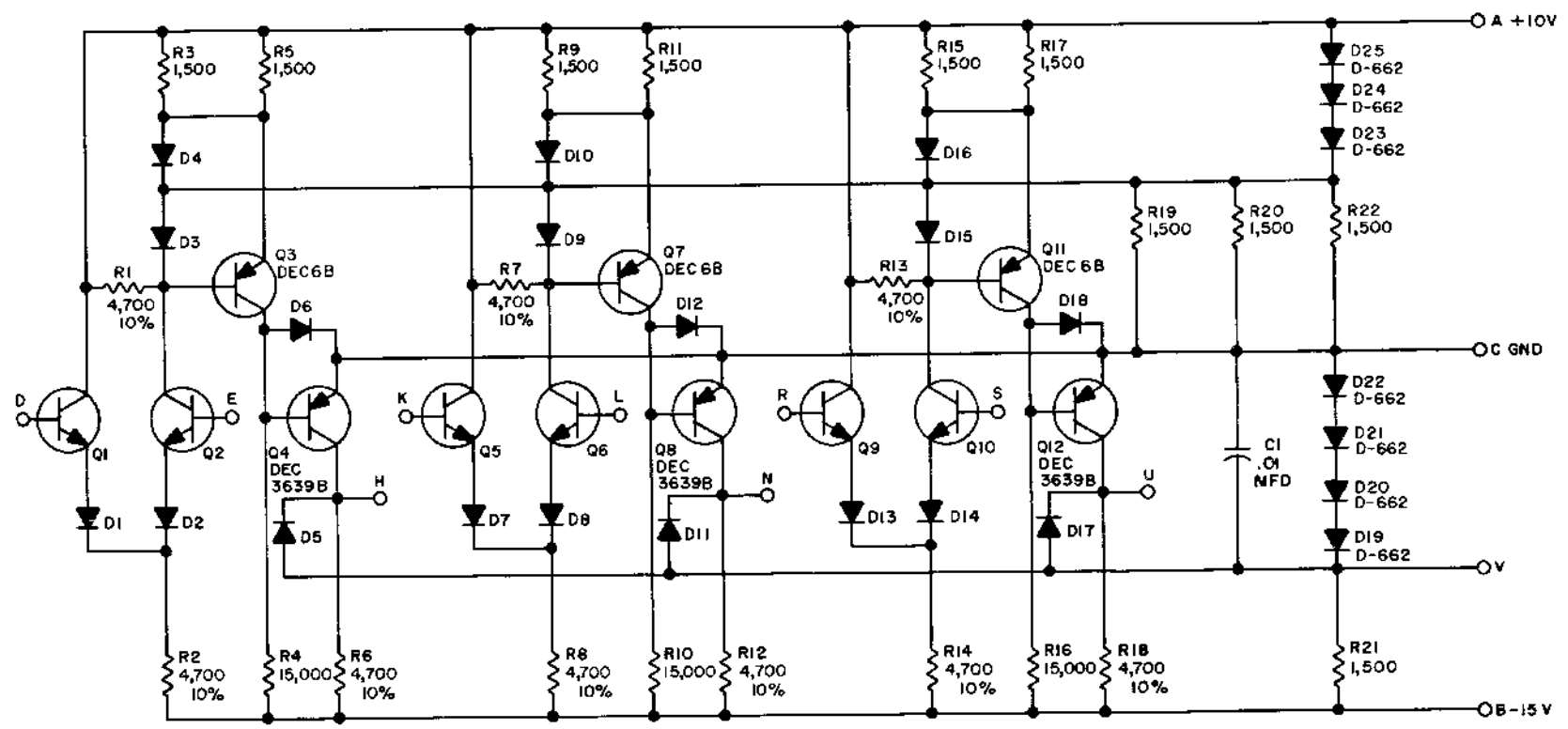
UNLESS OTHERWISE INDICATED:
 TRANSISTORS ARE DEC 2894-1B
 DIODES ARE D-664
 RESISTORS ARE 10,000; 1/4W; 10%
 RESISTORS ARE 1/4W; 10%

NOTE: TO BE USED WHEN SOLID STATE DEC TAPE TU55 IS CONNECTED TO A CONTROL THAT HAS RELAY DRIVERS.(550,551,552)

REVISIONS CHK'G NO. RTV DAW 62.82 REV B REDR 5727 E	DRN J. MAHN	DATE 5-27-65	TRANSISTOR & DIODE CONVERSION CHART				digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE LEVEL AMPLIFIER W513			
	CHK'D R. SILVERMAN	DATE 8-4-65	DEC	EIA	DEC	EIA		SIZE B	CODE CS	NUMBER W513-0-1	REV E
	ENG D. WARDIMON	DATE 8-5-65	DEC 2894-1B	NONE							
	PROD	DATE	2N3605	SAME							
			D662	IN645							
			D664	1N3605							

REV. C
 NUMBER W520-0-1
 SIZE CODE B CS

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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

REVISIONS CHK CHG NO. REV. DAW 5136 I REV. B REDR. 0407 B 07006 C	ORN A. OUELLETTE DATE 11-24-65	TRANSISTOR & DIODE CONVERSION CHART				 digital EQUIPMENT CORPORATION NATHAN MASSACHUSETTS	TITLE COMPARATOR W520			
	CHK'D N. PERRYMAN DATE 11-29-65	DEC DEC3009B	EIA 2N3009	DEC DEC3639B	EIA 2N3639		SIZE B	CODE CS	NUMBER W520-0-1	REV C
	ENG D.A. WHITE DATE 11-30-65	DEC D662	EIA 1N845	DEC D664	EIA 1N3606		PRINTED CIRCUIT REV			
	PROD. D.A. WHITE DATE	DEC D664	EIA 1N3606	DEC D664	EIA 1N3606		B	B	B	B

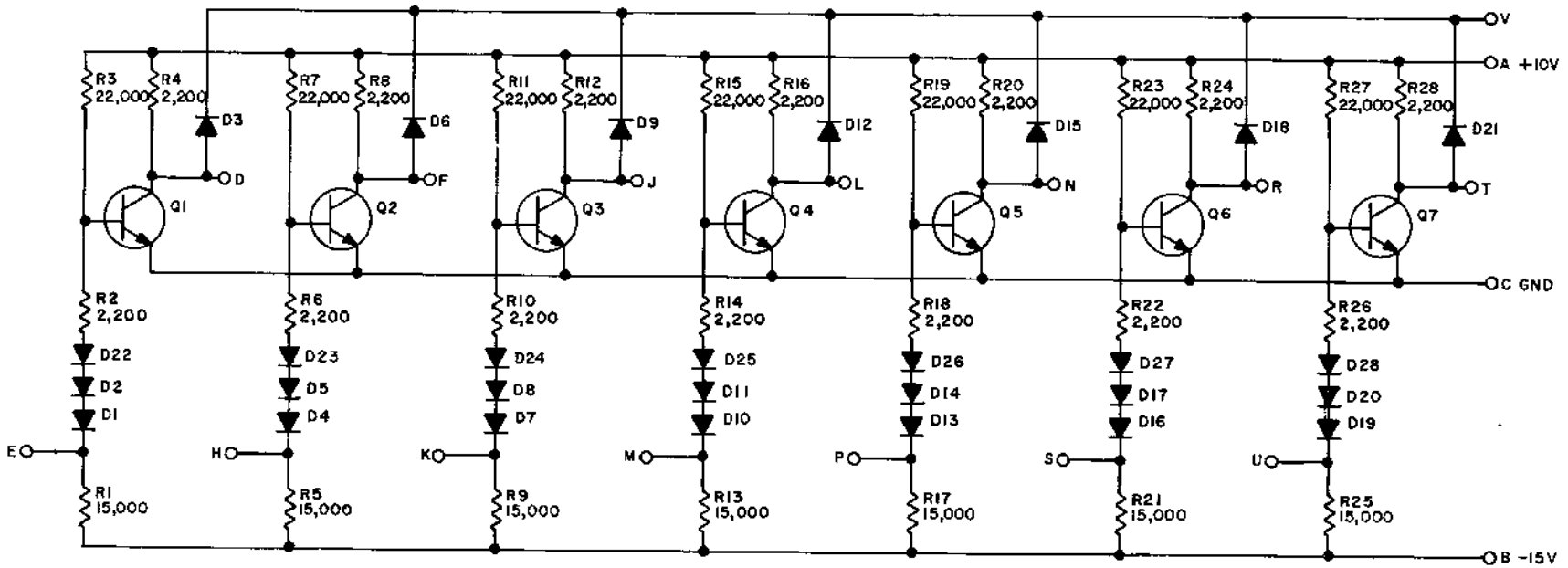
DEC FORM NO. DRB 102

DIST. 324 434 435

PINK

REV. C
 NUMBER W603-0-1
 SIZE B
 CODE CS
 NUMBER 3000
 SIZE 1

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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

REVISIONS	CHK	CHK NO	REV
	A	6172	A
	B	6744	B
	C	7136	C

DRN	DATE
CHK'D	DATE
ENG	DATE
PROD	DATE

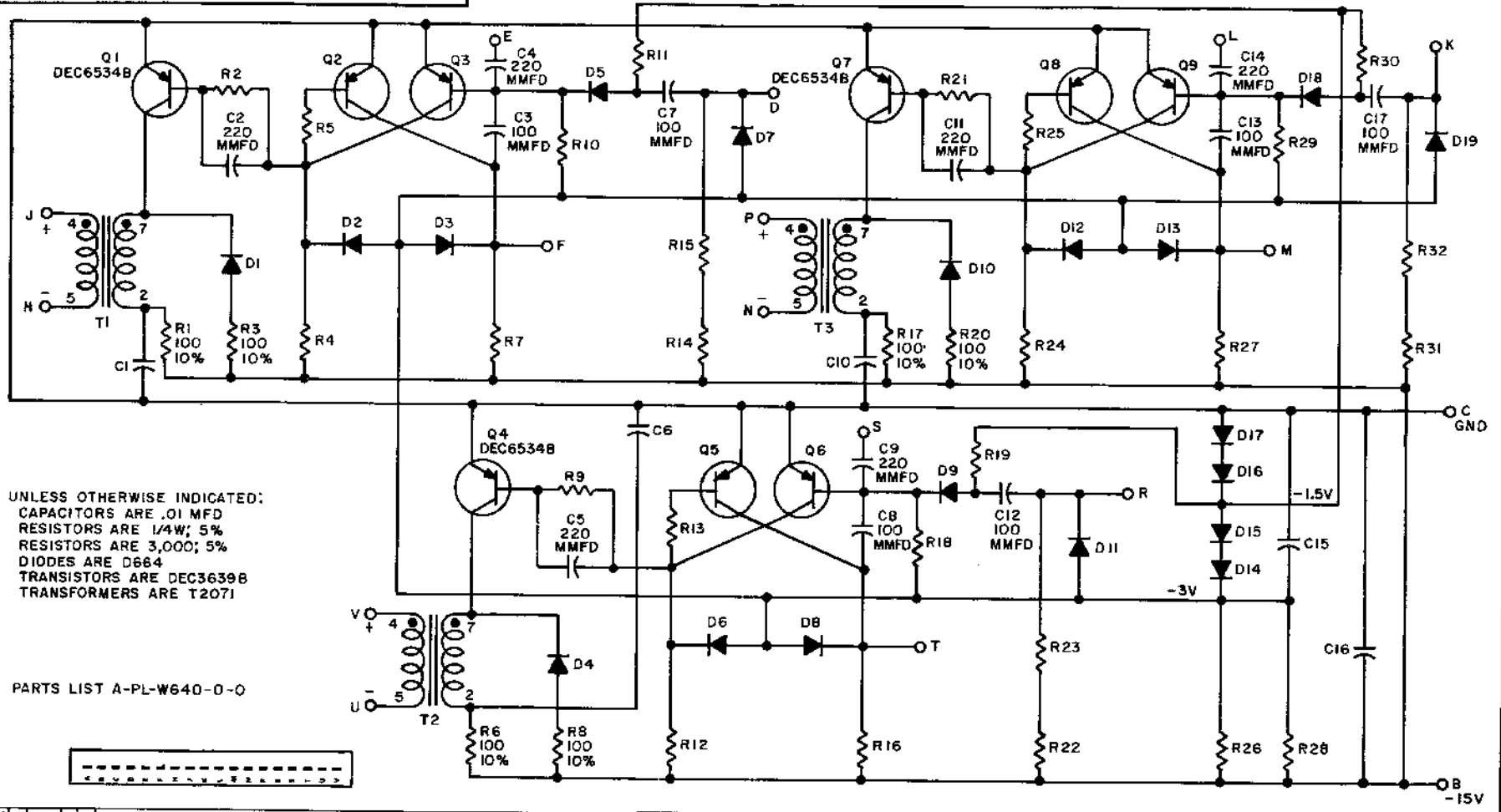
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3009B	2N3009		
D664	1N3606		

digital
 EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

TITLE				POSITIVE LEVEL AMPLIFIER W603	
SIZE	CODE	NUMBER	REV		
B	CS	W603-0-1	C		
PRINTED CIRCUIT REV.			B		

REV L
 NUMBER W640-0-1
 CODE CS
 SIZE B

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UNLESS OTHERWISE INDICATED:
 CAPACITORS ARE .01 MFD
 RESISTORS ARE 1/4W; 5%
 RESISTORS ARE 3,000; 5%
 DIODES ARE D664
 TRANSISTORS ARE DEC3639B
 TRANSFORMERS ARE T2071

PARTS LIST A-PL-W640-0-0

REV	CHG	IND	REV
1	5876	H	
2	5181	J	
3	6816	K	
4	8943	L	

DRN. H. PORTER	DATE 9-22-64
CHK'D N. PERRYMAN	DATE 9-29-64
ENG. R. BANK	DATE 9-29-64
PROD. 2	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3639B	2N3639		
DEC6534B	MPS6534		
D664	IN3606		

digital
 EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

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

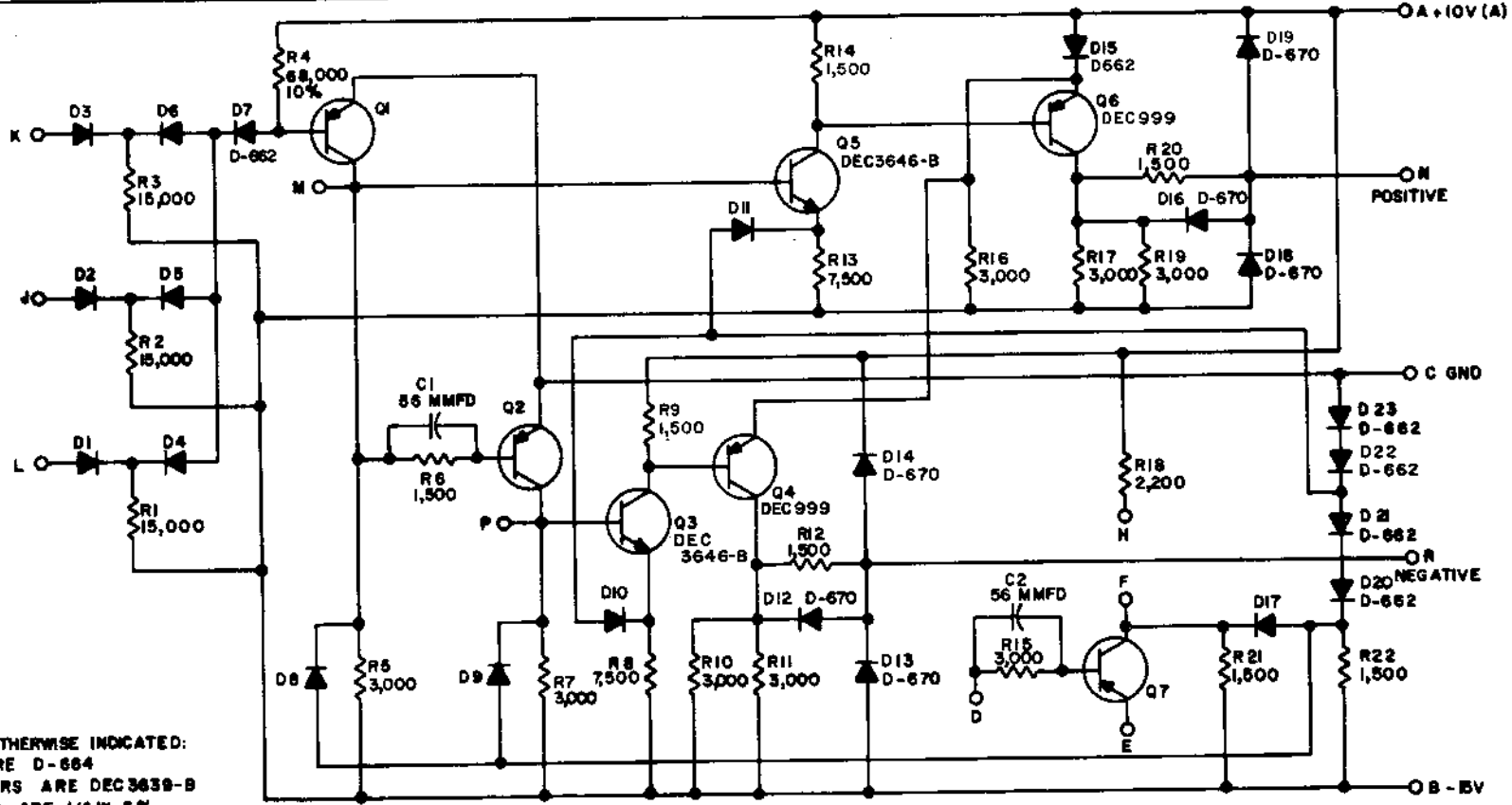
DEC FORM NO. DRB 102

PINK

DIST. 324 434 435

H REV 1-O-189M CS 8
 NUMBER SIZE CODE

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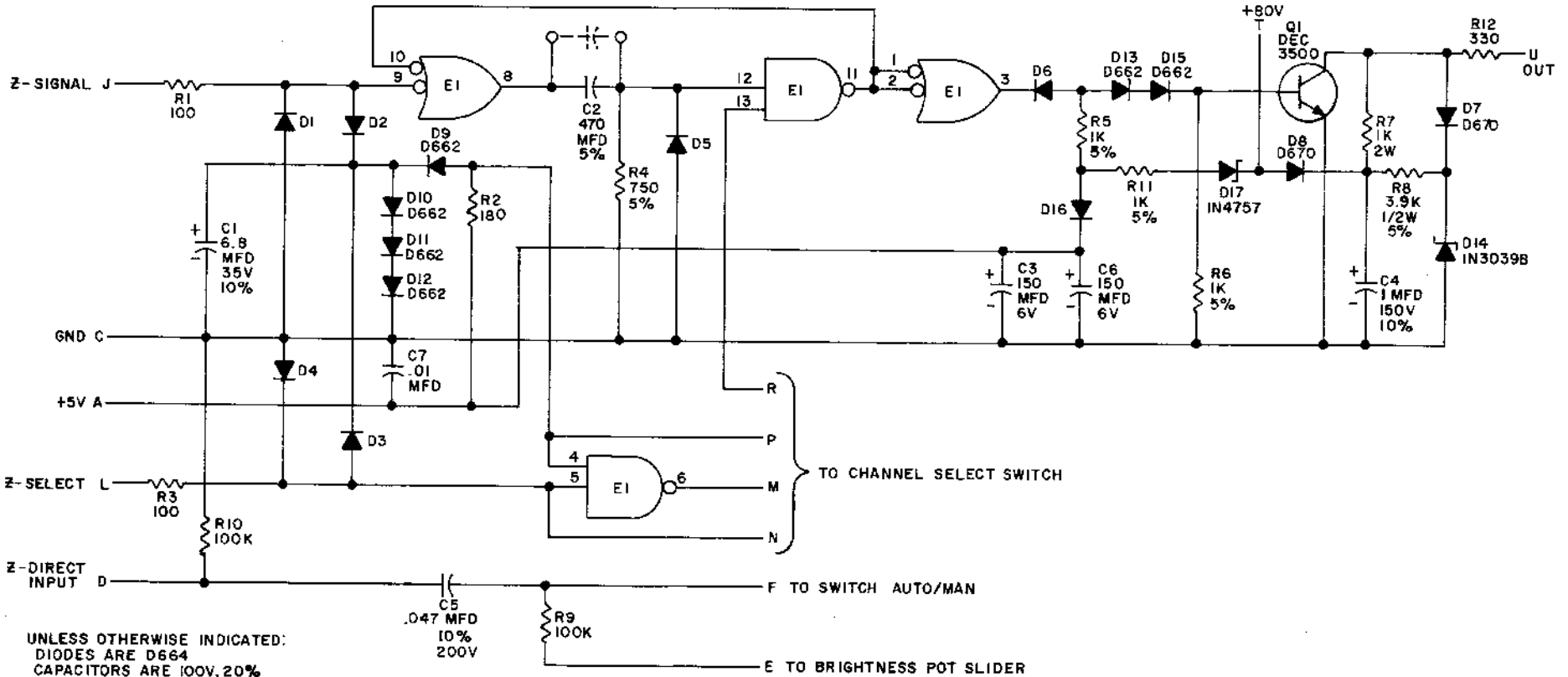
UNLESS OTHERWISE INDICATED:
 DIODES ARE D-664
 TRANSISTORS ARE DEC3639-B
 RESISTORS ARE 1/4 W, 5%

PARTS LIST A-PL-W681-O-0

REVISIONS CHK CHG NO. REV. DAW 5370 2 REV (REDR. 544) C 5586 D 5652 E 5689 F 7110 H	DRN. I. MANN	DATE 4-16-65	TRANSISTOR & DIODE CONVERSION CHART		digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE SCOPE INTENSIFIER W681			SIZE CODE NUMBER REV. B CS W681-O-1 H
	CHK'D R. SILVERMAN	DATE 4-21-65	DEC	EIA		DEC	EIA		
	ENG. R. SOGGE	DATE 4-20-65	DEC3639-B	2N3639-B		D670	IN3653		
	PRD.	DATE	DEC999	MM999					
			DEC3648-B	NONE					
			D662	IN845					
			D664	IN3606					

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

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UNLESS OTHERWISE INDICATED:
 DIODES ARE D664
 CAPACITORS ARE 100V, 20%
 EI IS DEC7400N
 PIN 7 ON IC = GND
 PIN 14 ON IC = +5V
 RESISTORS ARE 1/4W, 10%

REVISIONS	CHK	CHG	NO.	REV.
1	7/24	00001	B	
2	7/24	00002	C	
3	7/24	00003	D	
4	7/24	00004	E	

DRN <i>Mr. Keller</i>	DATE 5-20-69
CHK'D <i>A. D. Hallett</i>	DATE 6/12/69
ENG. <i>W. J. Schlar</i>	DATE 3/17/69
PROD. <i>W. J. Schlar</i>	DATE 8-1-69

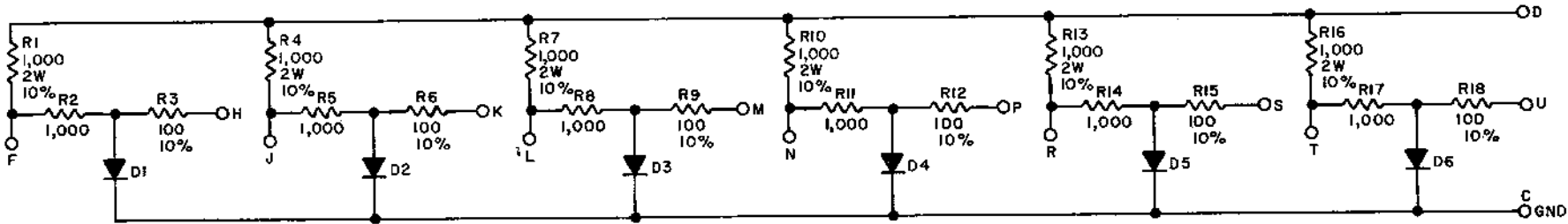
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D662	IN645	IN4757	SAME
D664	IN3506		
D670	IN3653		
IN3039B	SAME		
DEC3500	2N3500		

digital
 EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

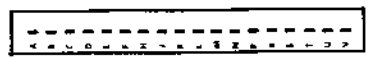
TITLE INTENSITY AMPLIFIER W682			
SIZE B	CODE CS	NUMBER W682-0-1	REV. E
PRINTED CIRCUIT REV A			

REV. A
 NUMBER W701-0-1
 SIZE CODE B CS

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

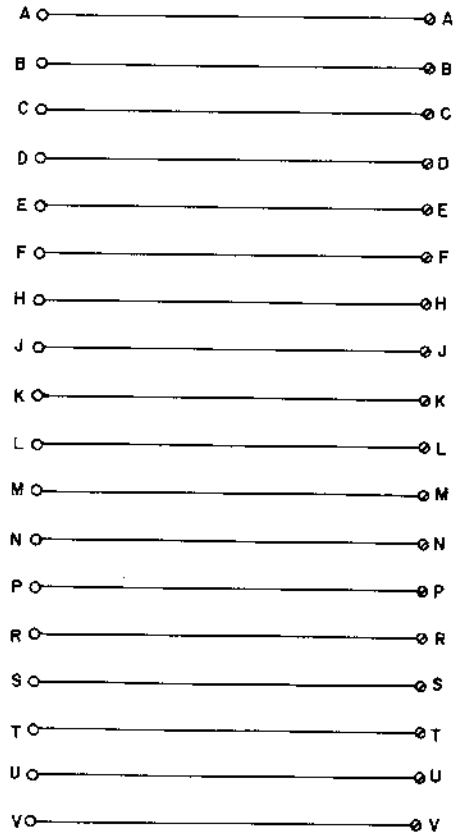


REVISIONS CHG NO. REV. REV. & REDR. 4-5532 A	DRN I. HAHN	DATE 10-20-65	TRANSISTOR & DIODE CONVERSION CHART				digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE INPUT NETWORK W701			
	CHK'D R. SILVERMAN	DATE 10-21-65	DEC	EIA	DEC	EIA		SIZE B	CODE CS	NUMBER W701-0-1	REV. A
	ENG. E. DE CASTRO	DATE 10-21-65	D664	IN3606				PRINTED CIRCUIT REV.	A		
	PROD	DATE									



REV. A	NUMBER W990-0-1	CS B	SIZE 330
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REVISIONS CHG. NO. REV. 0000 A	DRN. <i>[Signature]</i> DATE <i>1-28-69</i>	TRANSISTOR & DIODE CONVERSION CHART				digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE BLANK MODULE W990			
	CHK'D <i>M. Marshall</i> | DATE <i>1-28-69</i>	DEC | EIA | DEC | EIA	SIZE B | CODE CS | NUMBER W990-0-1 | REV. A							
	ENG <i>[Signature]</i> | DATE <i>1-28-69</i>	PROD. | DATE	PRINTED CIRCUIT REV. E							
	PROD. | DATE	DIST. 324,454,455 3 PINK								

