

**PDP-12
MAINTENANCE MANUAL
VOLUME IV
MODULE SCHEMATICS**

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

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

CONTENTS (Cont)

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

CONTENTS (Cont)

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

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CONTENTS (Cont)

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

POWER SUPPLIES

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

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

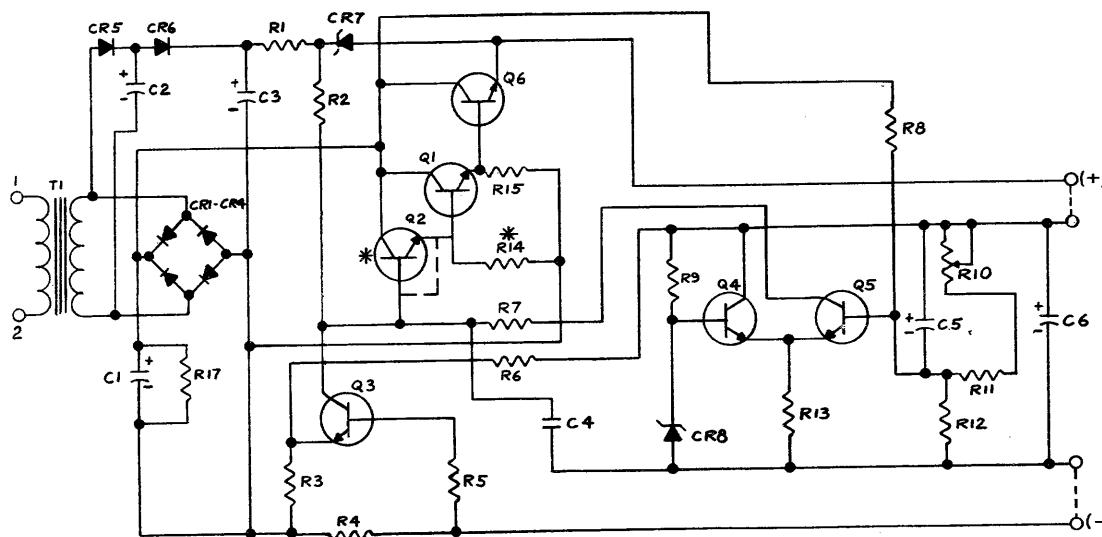
†Used by permission of Power-Mate Corp., Hackensack, New Jersey

REVISIONS

APPD

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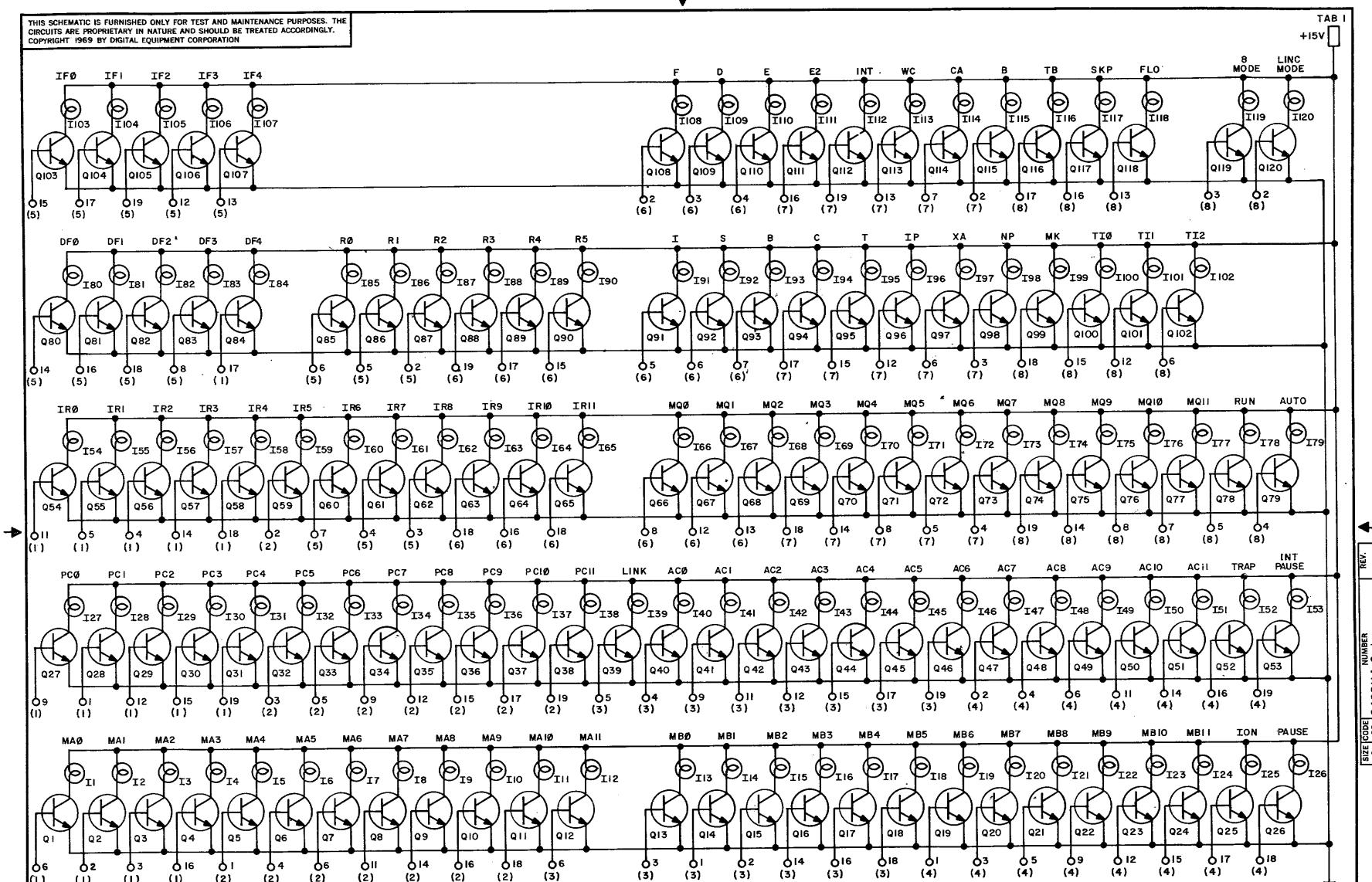
DIGITAL PART NUMBER
12-03185-02 REV F



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

DRAWN BY	POWER/MATE CORP. HACKENSACK, NEW JERSEY	
APPD BY	1412-12-69	
CODE IDENT NO	23934	A
USED ON	SCALE	SHEET OF

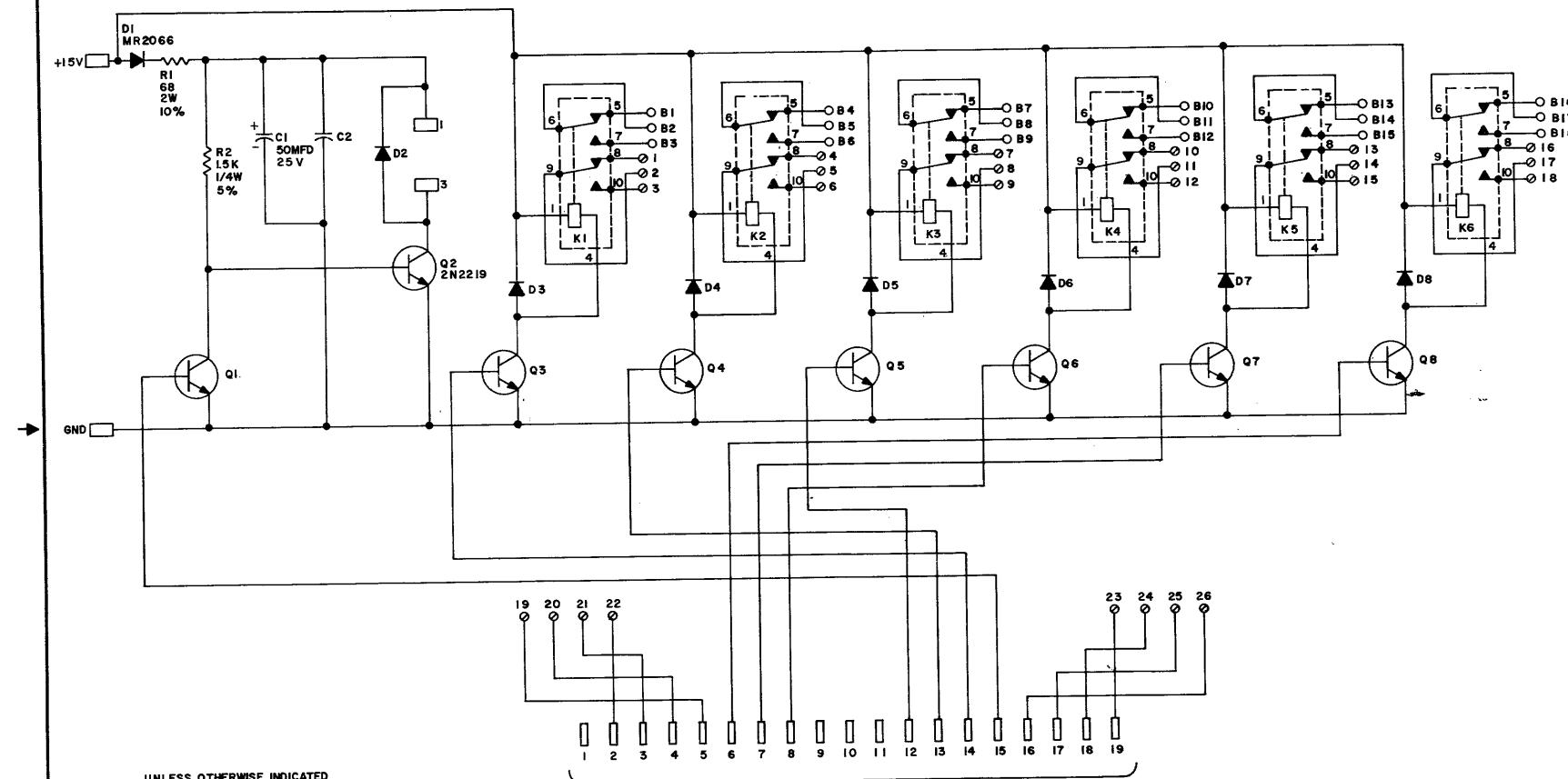
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UNLESS OTHERWISE INDICATED:
LAMPS ARE 2313 DEC #1205550
TRANSISTORS ARE DEC2 #1505650
NUMBERS IN PARENTHESIS () DESIGNATE FLEXPRINT CONNECTOR NO.

REVISIONS CHG NO./REV.	M. Waller	DATE 9-25-61	TRANSISTOR & DIODE CONVERSION CHART				digital	TITLE PDP 12 INDICATOR PANEL 5408114
	CHK'D H. M. Waller	DATE 9/3/61	DEC	EIA	DEC	EIA	EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	SIZE C CODE CS NUMBER 5408114-0-1 REV. B PRINTED CIRCUIT REV.
	ENG S. Hale	DATE 9-25-61	DEC 2	2N3009				
	PROD.	DATE						

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SIZE CODE NUMBER
C CS 5408124 - 0 - 1
REV.

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CHG CHG NO. REV.

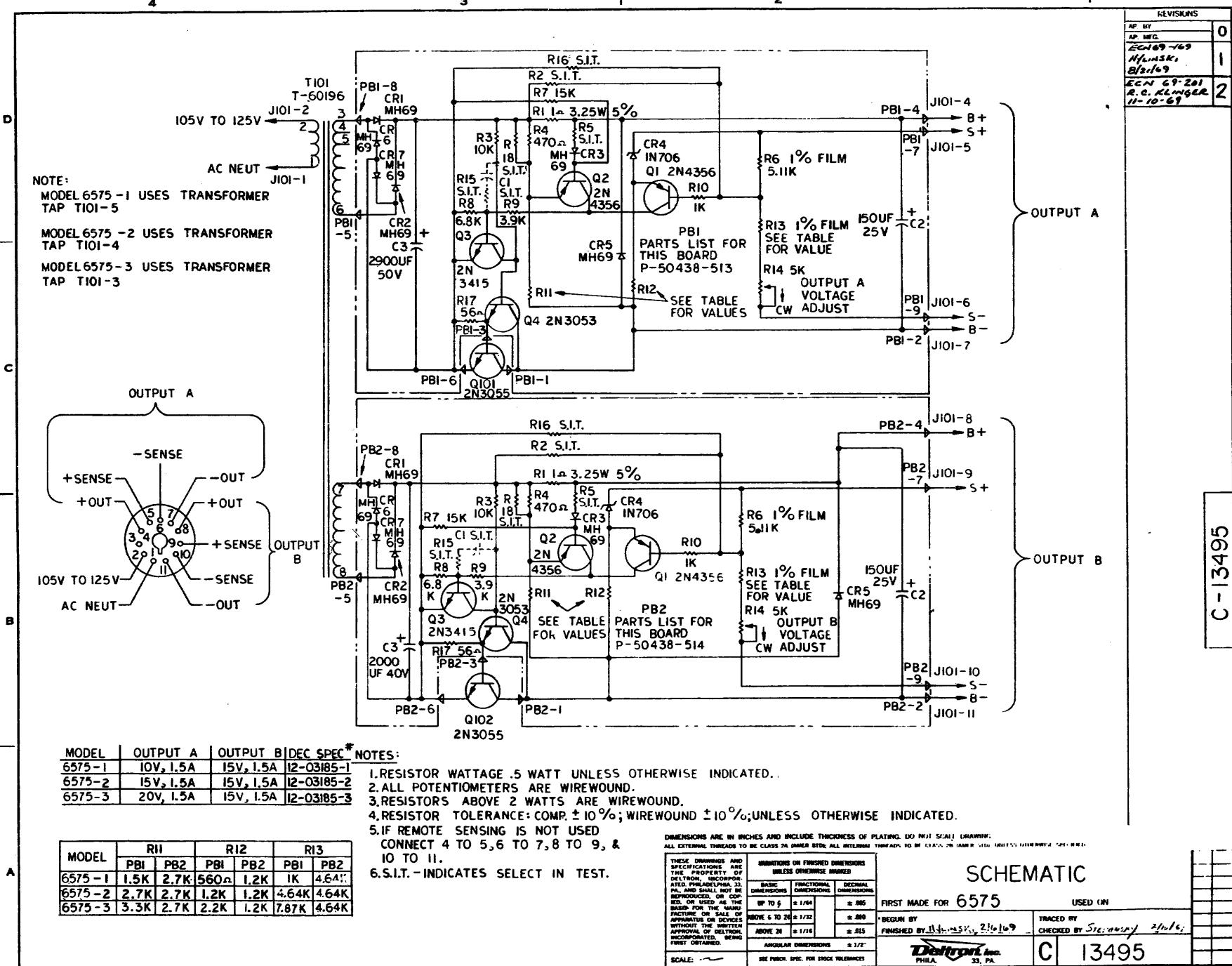
DEC FORM NO. 102
DRC 102

DRW	DATE	DRW	DATE
CHNG	DATE	CHNG	DATE
6/1968	4-3-69	MR2066	1N4003
END	DATE	D664	1N3606
6/1968	5-28-69	2N2219	SAME
PROD.	DATE	DEC2	2N3009

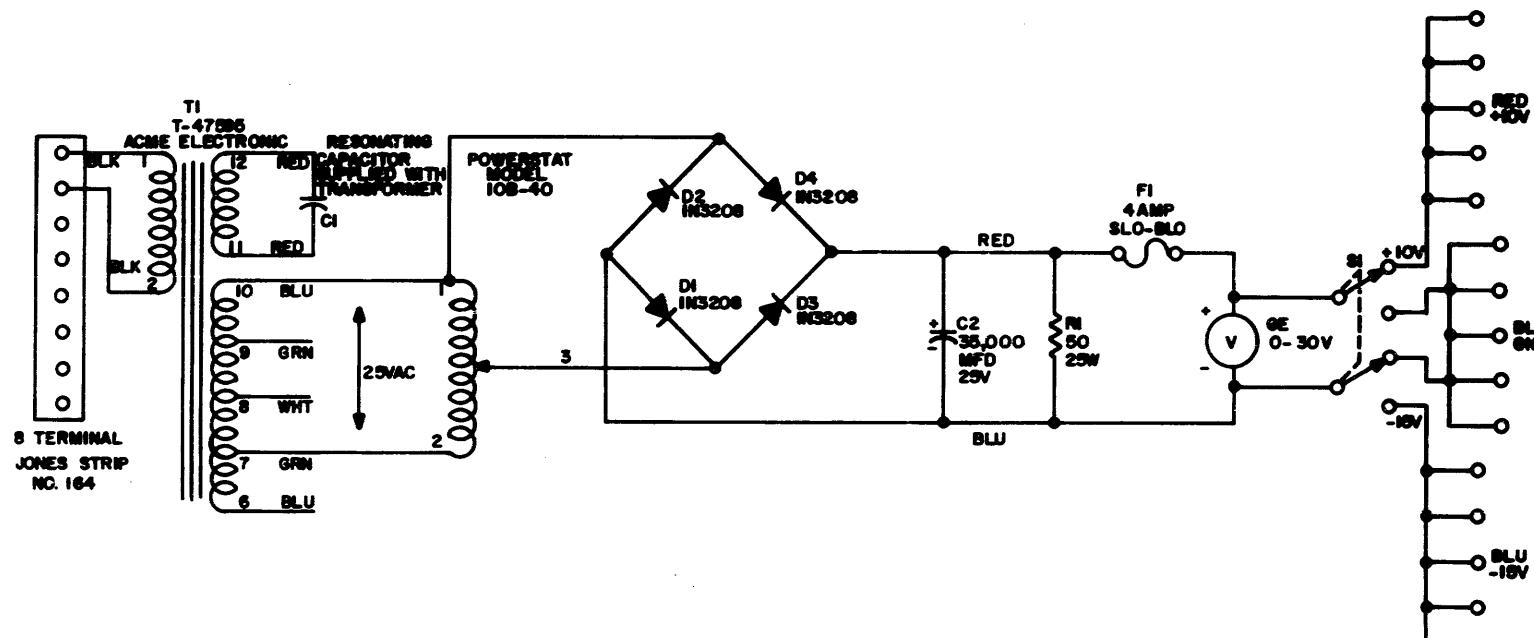
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DEC	EIA	DEC	EIA
MR2066	1N4003		
D664	1N3606		
2N2219	SAME		
DEC2	2N3009		

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
RELAY BOARD
5408124
SIZE CODE NUMBER
C CS 5408124 - 0 - 1
REV.
PRINTED CIRCUIT REV. A
DIST. 324 434 435 3
P/N K



CS-B-734B-2

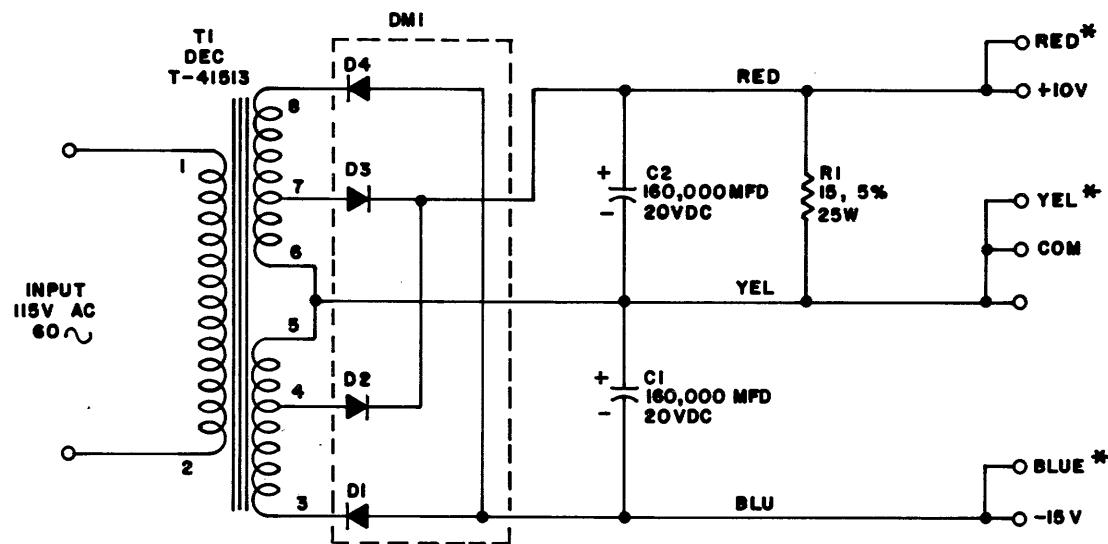


NOTE:
OUTPUT IS CONNECTED THROUGH
HEYMAN TAB TERMINALS

REF. NO.	CODE NO.	REVISION	DRAFTSMAN H.W. PORTER DATE 1-23-64	CHECKER A.V. VARTANIAN DATE 1-23-64	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	CODE DWG. NO. CS B-734B	RE 2
			ENGINEER D.A. WHITE DATE 1-24-64	PRODUCTION I DATE	TITLE	VARIABLE POWER SUPPLY 734B	

B CS 783-0-1 NUMBER C REV.

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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: $5I_{10} + 6I_{15} \leq 53$

* HEYMAN MFG. CO. TAB TERMINALS

REVISIONS	CHK	CHG	NO.	REV.
	C		4740	A
				B
			6003	C

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DRB 102

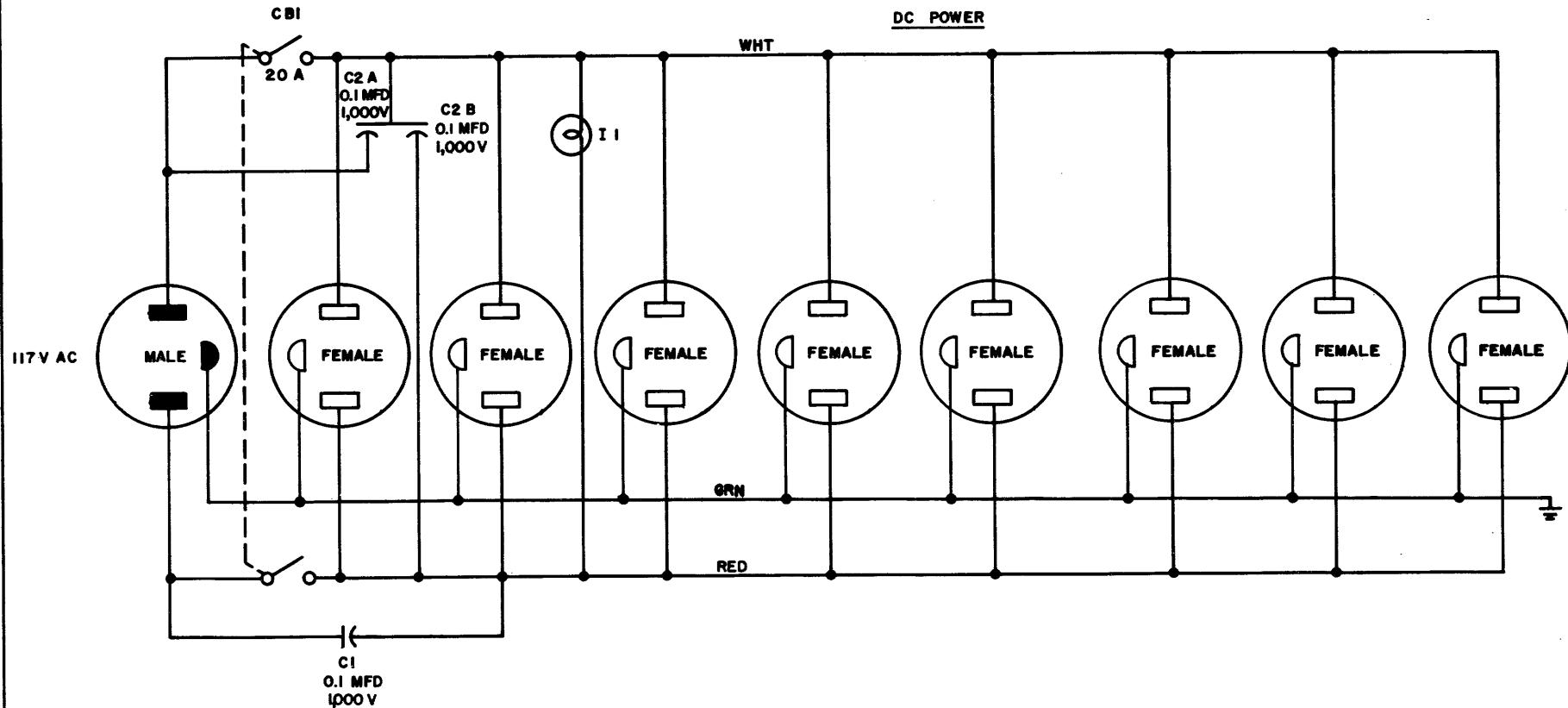
DRN.	H.W. PORTER	DATE
		11-20-63
CHK'D		DATE
	A.VARTANIAN	11-27-63
ENG.	R.DOANE	DATE
		11-27-63
PROD.		DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
POWER SUPPLY 783
SIZE CODE B CS 783-0-1 NUMBER
REV. C
PRINTED CIRCUIT REV.

CS-828-1

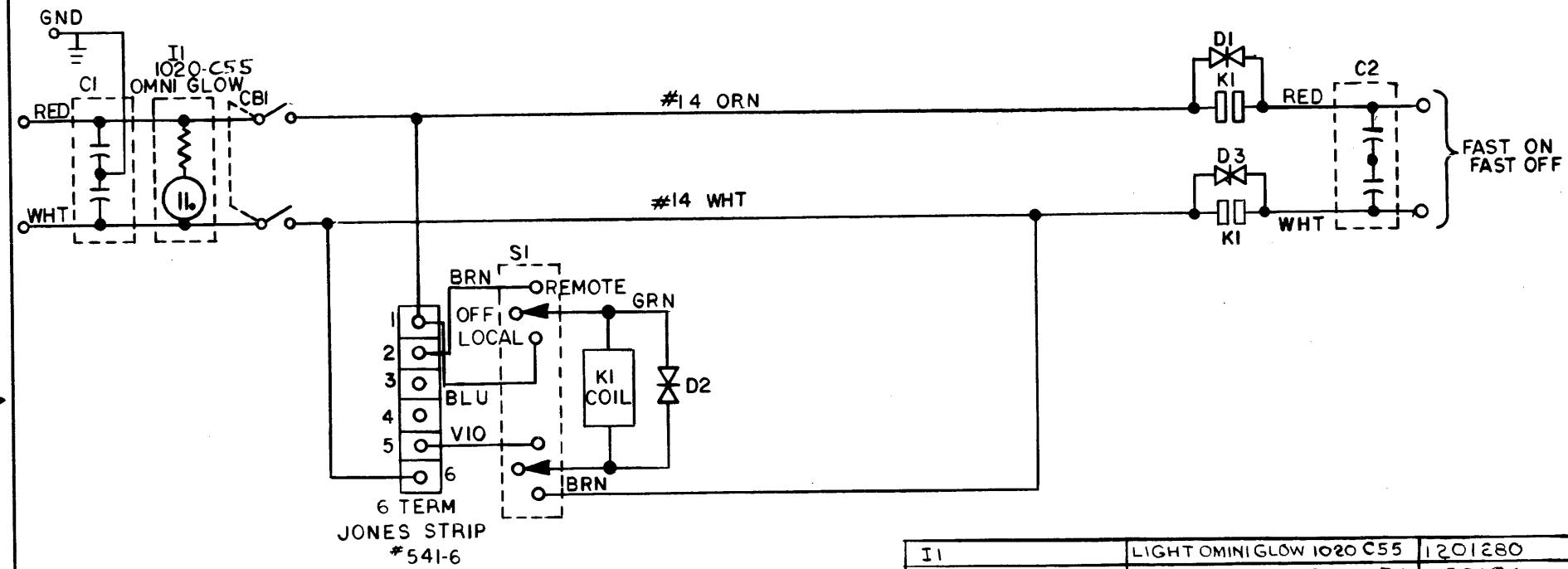


NOTE:
CBI IS A DPST HEINEMANN ELEC CO. XAM33 CURVE 4
II IS A NEON PILOT LIGHT-NE-2D
ALL SOCKETS AND PLUG ARE SHOWN IN REAR VIEW

1293	CH NO APP	CHANGE	EXPER	DRAWN J.S. CARO 2-11-63	digital EQUIPMENT CORPORATION MAYNARD-MASSACHUSETTS	CS-828-1
		PRODUCTION		CHECKED <i>J.S. Caro</i>		
		OTHER		ENGINEER <i>John J. Reed</i>	POWER RECEPTACLE 828	

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

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

REVISIONS	CHG NO.	REV.
1	00002	A
2	00003	B
3	00004	C
4	00005	D

DRN. Pie Plan DATE 10-21-68
MMW DATE 11/7/68
ENG. G.W. GEERLDS DATE 11/15/68
PROD. G.W. GEERLDS DATE 11/15/68

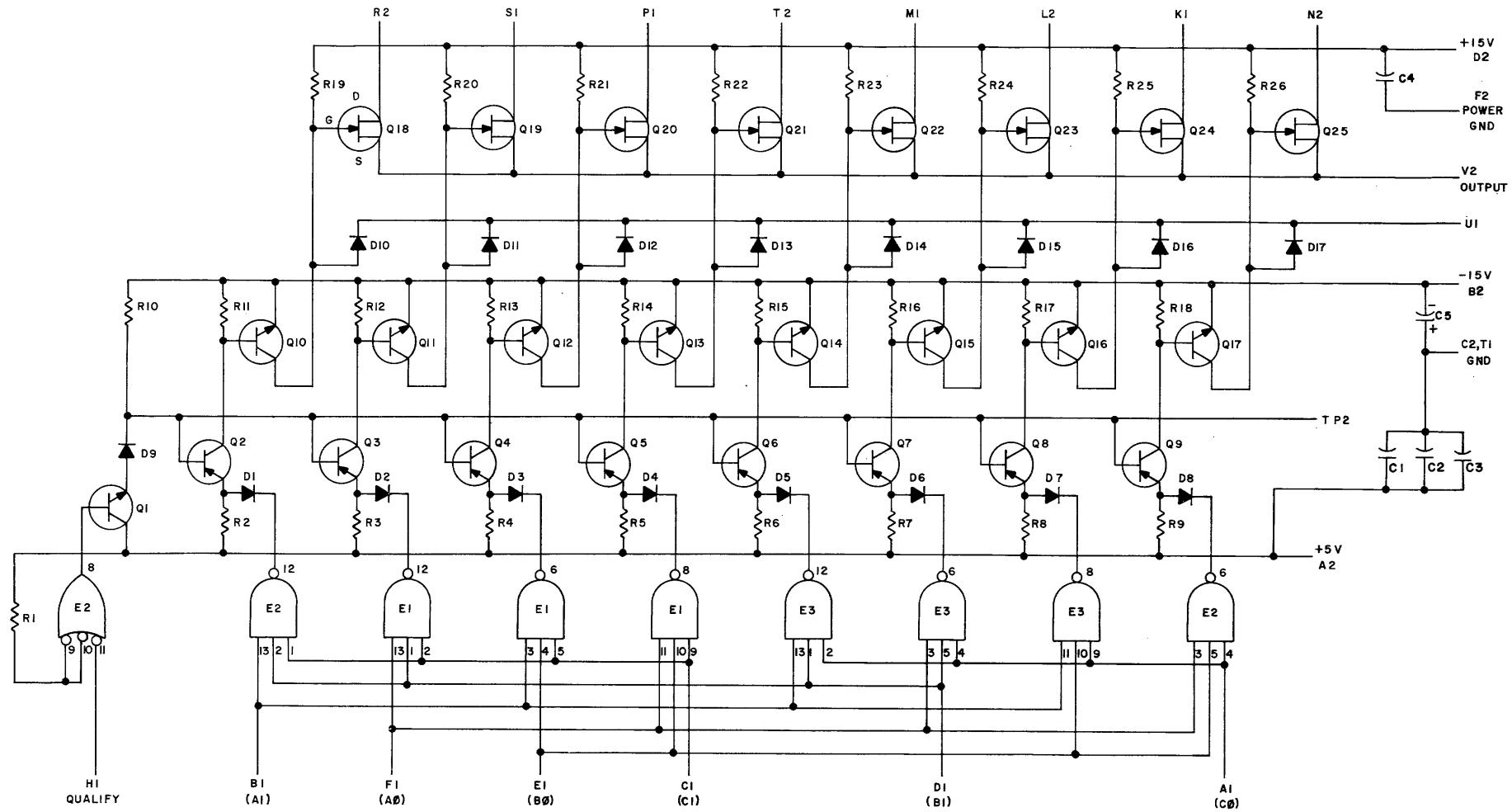
TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

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EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE POWER CONTROL
854
SIZE CODE NUMBER
B CS 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.
PARTS LIST		
E1,E2,E3	INTEGRATED CKT DEC7410N	I905576
Q18-Q25	TRANSISTOR 2N5245 OR TIS 88	1509681
Q2-Q9	TRANSISTOR DEC6534 B	1503409-01
Q1 , Q10 - Q17	TRANSISTOR DEC3009B-S	1503100
R19-R26	RES 10K 1/4W 5% CC	I300479
R11-R18	RES 33K 1/4W 5% CC	I300439
R2-R10	RES 1.5K 1/4W 5% CC	I300391
R1	RES .33K 1/4W 10%	I300510
D1-D17	DIODE D664	1100114
C1-C4	CAP .01 MFD 100V 20% DISC	I001610
C5	CAP 6.8 MFD 35V 20% STANT	I000067
PARTS LIST		A-PL-A131-0-0

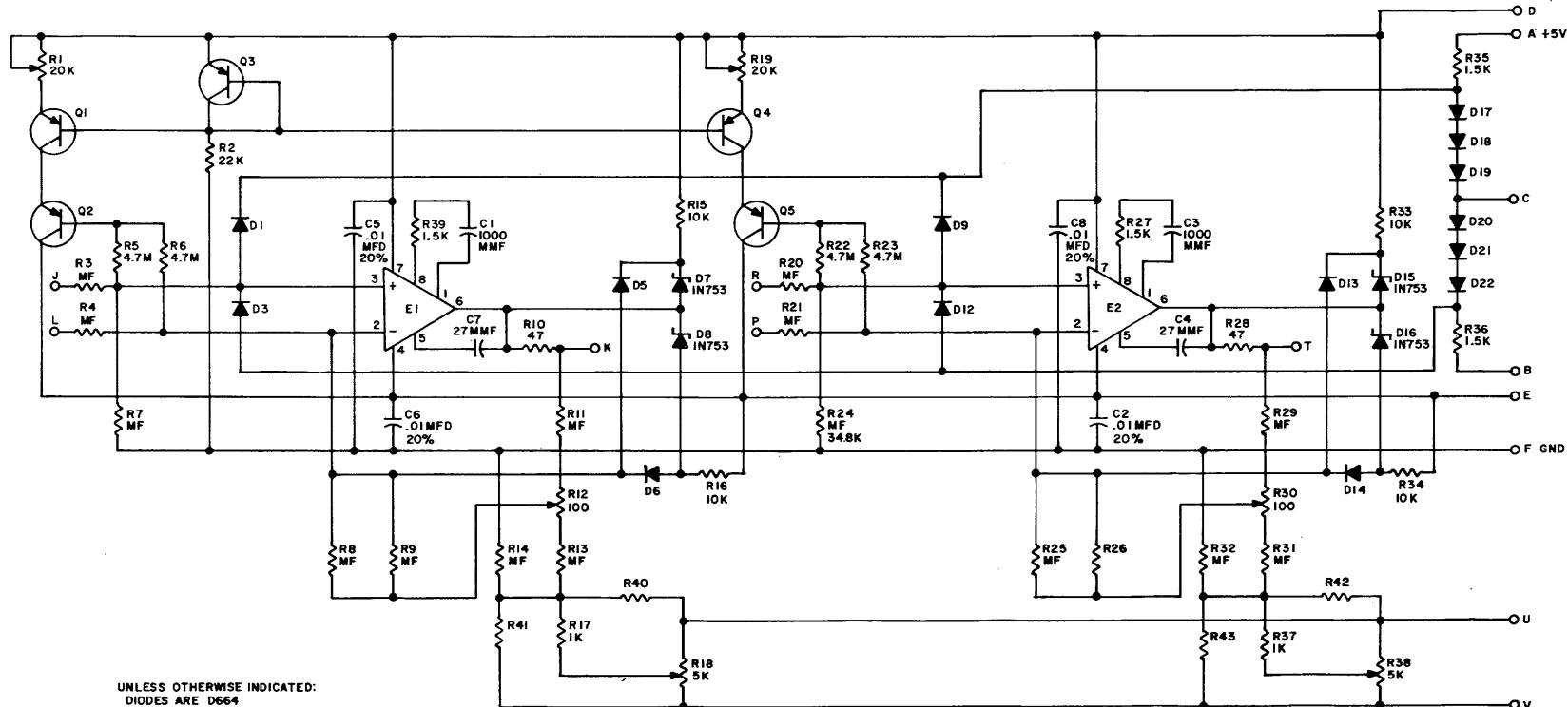
DRN: <i>Scammon</i>	DATE: <i>2-10-69</i>
CHND: <i>Scammon</i>	DATE: <i>3-10-69</i>
ENG: <i>J. Scammon</i>	DATE: <i>4-8-69</i>
PROD:	DATE:

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC664	IN3606		
DEC3009B	2N3009		
DEC6534B	MPS6534		
2N5245	NONE		



TITLE: MULTIPLEX
A131
SIZE: C
CODE: CS A131-0-1
NUMBER: REV. C
PRINTED CIRCUIT REV. B

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UNLESS OTHERWISE INDICATED:
DIODES ARE D664
RESISTORS ARE 1/4W, 5%
MF RESISTORS ARE 1/8W, 1%; 100MF
TRANSISTORS ARE 2N4250
R1, R18 ARE ALLEN BRADLEY 2V-2032
POTS ARE 76PN SERIES
E1, E2 ARE MC1709
CAPACITORS ARE 100V, 5%

0 → +5	A214-YF	1.2K	68.1K	68.1K	21.5K	21.5K	IM (CC)	2.74K	422	51.1	NONE
0 → +10	A214-YE	1.2K	68.1K	68.1K	12.1K	12.1K	274K	2.61K	422	75	NONE
0 → -2	A214-YD	NONE	34.8K	34.8K	34.8K	34.8K	4.7M	1.96K	348	90.9	1.2K
±10	A214-YC	NONE	64K	64K	5.48K	5.48K	39K	2.61K	261	36.3	NONE
±5	A214-YB	NONE	68.1K	68.1K	12.1K	12.1K	365K	2.61K	422	90.9	NONE
0 → ±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	36.3	NONE
INPUT VOLTAGE RANGE	VARIATION	R41 R43	R3 R20	R4 R21	R7 R25	R8 R26	R9 R29	R11 R31	R13 R32	R14 R40	R42

REVISIONS	Z-25-44
DATE	DEC 1969
CHG'D.	BY J.L.
ENG.	4/17/69
PROD.	2N4250

DEC FORM NO. 102
DRC 102

DRN.	DATE	TRANSISTOR & DIODE CONVERSION CHART	
CHG'D.	DATE	DEC	EIA
ENG.	DATE	DEC	EIA
PROD.	DATE		
2N4250	4/17/69	D664	IN3606
		IN753	SAME

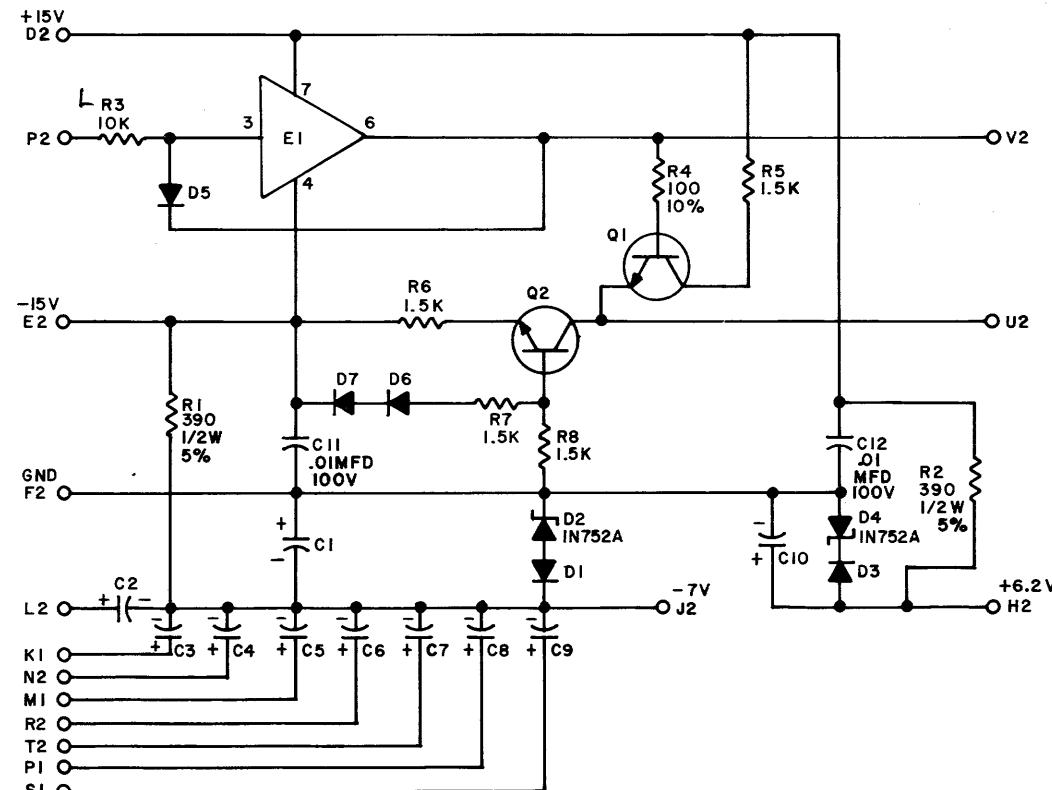
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TITLE
2 ANALOG AMPLIFIERS A214
SIZE C CODE CS NUMBER A214-0-1 REV. B
PRINTED CIRCUIT REV. B
DIST. 3244344353 P/MK

REF. B
SHEET CS A214-0-1
NUMBER C

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

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REVISIONS		
CHK	CHG NO	REV.
✓	00001	A
✓	7	

DRN. <i>m. Wallen</i>	DATE <i>3-7-69</i>
CHK# <i>30000</i>	DATE <i>3-9-69</i>
ENG. <i>K. L. Grinman</i>	DATE <i>4/8/69</i>
PROD.	DATE

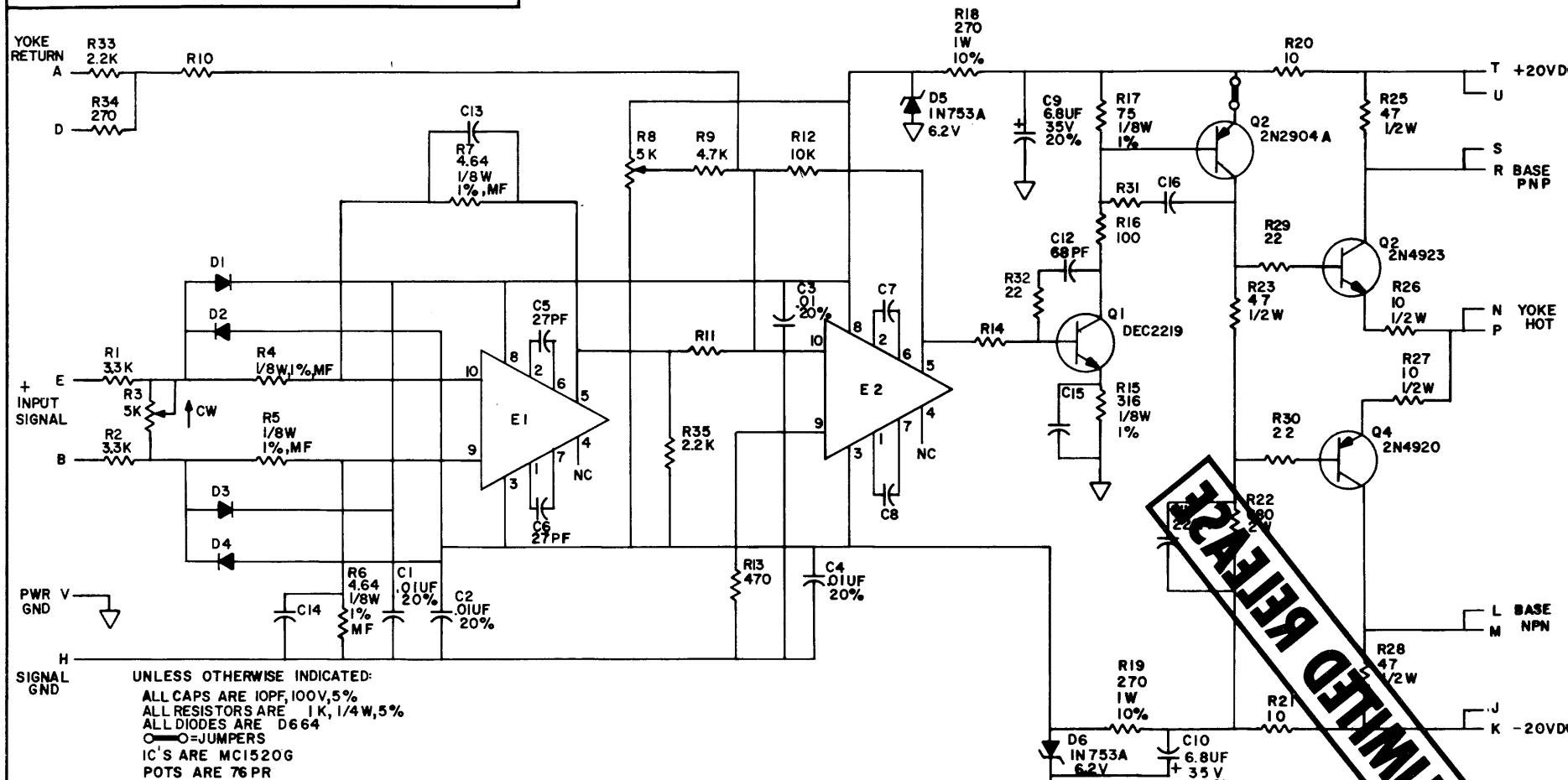
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D664	IN3606		
DEC2219	2N2219		

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TITLE
ANALOG BUFFER A215
SIZE B CS NUMBER REV.
A215-0-1 A
PRINTED CIRCUIT REV. A
DIST 324,434,435³ 3 PINK

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



SIGNAL GND 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	CHG NO.	REV.

DRN: <i>S. Gilmer</i>	DATE 6 Nov 70
CHK'D <i>R. Johnson</i>	DATE 12-7-20
ENG <i>B. Nelson</i>	DATE 12-8-70
PROD.	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
2E2219	2N2219		
N4920	SAME		
3664	1N3606		
N783	SAME		

The logo for Digital Equipment Corporation (DEC) features the word "digital" in a bold, lowercase sans-serif font, where each letter is enclosed in a separate black rectangular box. Below it, the words "EQUIPMENT", "CORPORATION", and "MAYNARD, MASSACHUSETTS" are stacked in a smaller, all-caps sans-serif font.

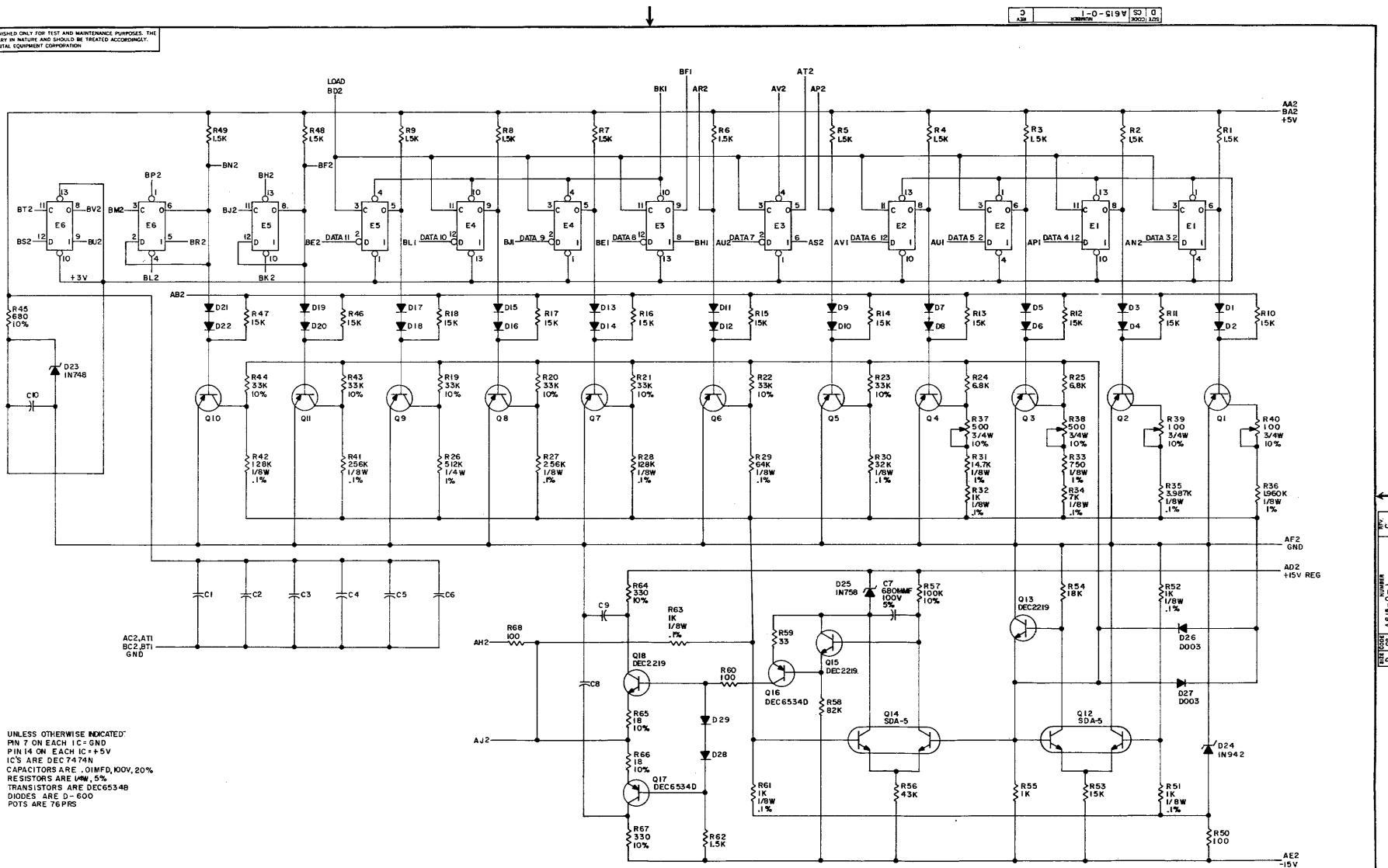
TITLE DEFLECTION AMPLIFIER		
A225		
SIZE	CODE	NUMBER
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PRINTED CIRCUIT REV.		

PRINTED CIRCUIT RE

Pink Blue

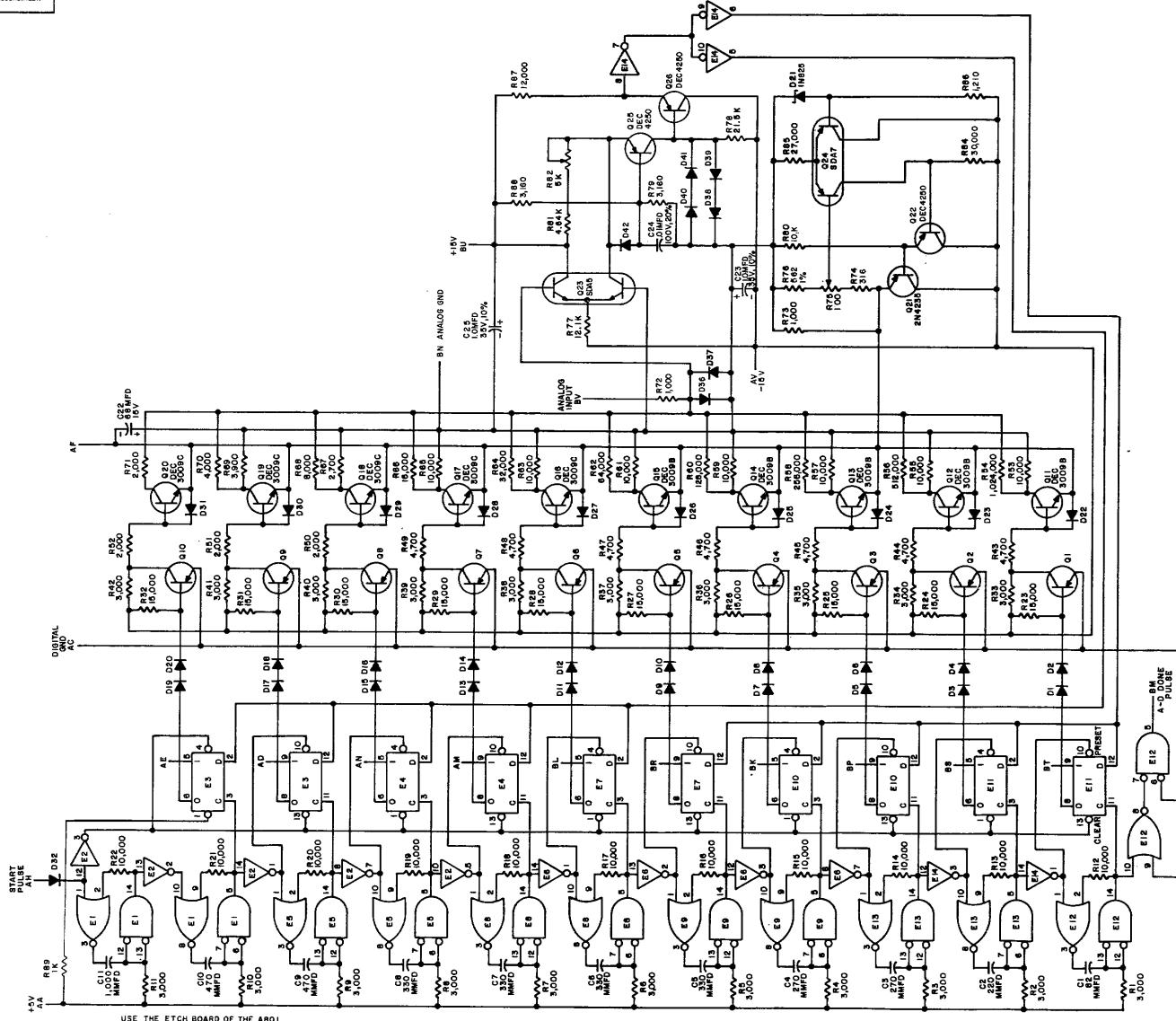
DEC FORM NO.
DRB 102

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DATE		TRANSISTOR & DIODE CONVERSION CHART		EQUIPMENT CORPORATION		TITLE	
MANUFACTURER	DATE	ITEM #	NAME	ITEM #	NAME	NUMBER	KEY
TRANSISTOR	DATE	IN524	SAME	RD524	SAME	A615	C
TRANSISTOR	DATE	IN525	SAME	RD525	SAME		
TRANSISTOR	DATE	IN728	SAME	REC221B	2ME21B		
TRANSISTOR	DATE	IN748	SAME	REC224B	2ME24B		
TRANSISTOR	DATE	IN754	SAME	REC225B	2ME25B		
TRANSISTOR	DATE	IN754P	SAME	DEC225AB	2FS253A		
DIODE	DATE	BD4009					

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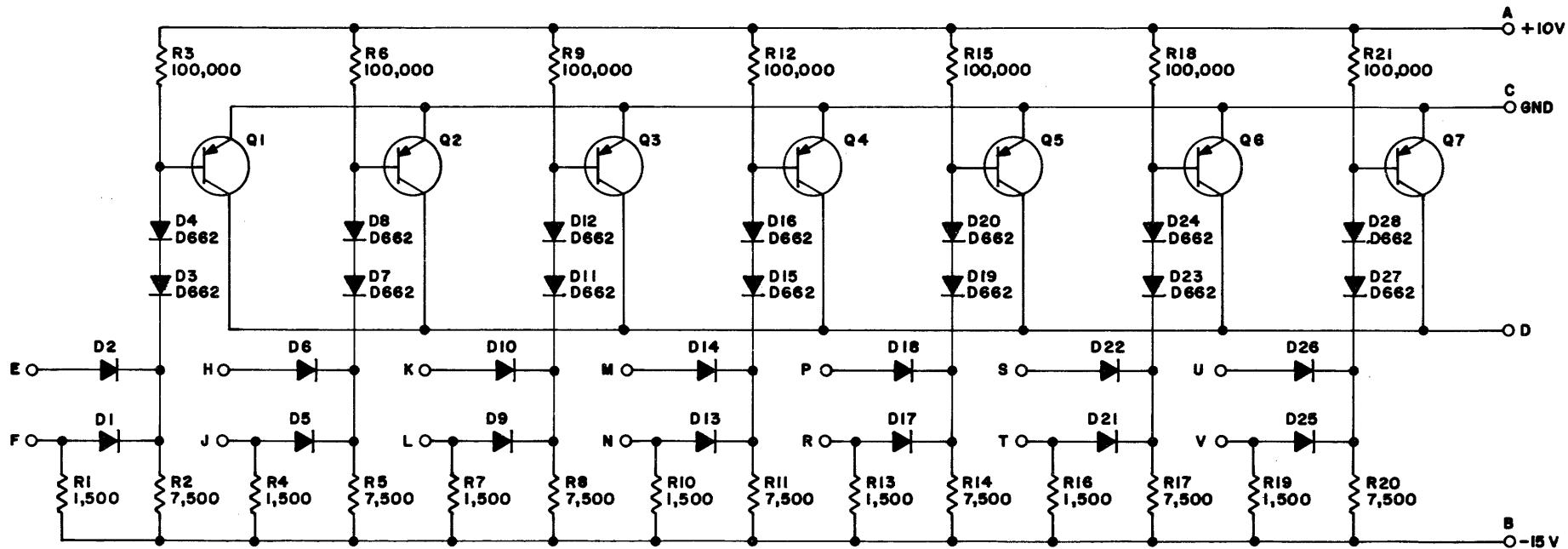


UNLESS OTHERWISE INDICATED:
 PH1 = 1N4148A
 REGISTERS ARE 1N4148A
 DIODES ARE D64A

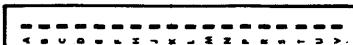
PIN	T	GND	PH1	PH2	PH3	PH4	PH5	PH6	PH7	PH8	PH9	PH10	PH11	PH12	PH13	PH14	PH15	PH16	PH17	PH18	PH19	PH20	PH21	PH22	PH23	PH24	PH25	PH26	PH27	PH28	PH29	PH30	PH31	PH32	PH33	PH34	PH35	PH36	PH37	PH38	PH39	PH40	PH41	PH42	PH43	PH44	PH45	PH46	PH47	PH48	PH49	PH50	PH51	PH52	PH53	PH54	PH55	PH56	PH57	PH58	PH59	PH60	PH61	PH62	PH63	PH64	PH65	PH66	PH67	PH68	PH69	PH70	PH71	PH72	PH73	PH74	PH75	PH76	PH77	PH78	PH79	PH80	PH81	PH82	PH83	PH84	PH85	PH86	PH87	PH88	PH89	PH90	PH91	PH92	PH93	PH94	PH95	PH96	PH97	PH98	PH99	PH100	PH101	PH102	PH103	PH104	PH105	PH106	PH107	PH108	PH109	PH110	PH111	PH112	PH113	PH114	PH115	PH116	PH117	PH118	PH119	PH120	PH121	PH122	PH123	PH124	PH125	PH126	PH127	PH128	PH129	PH130	PH131	PH132	PH133	PH134	PH135	PH136	PH137	PH138	PH139	PH140	PH141	PH142	PH143	PH144	PH145	PH146	PH147	PH148	PH149	PH150	PH151	PH152	PH153	PH154	PH155	PH156	PH157	PH158	PH159	PH160	PH161	PH162	PH163	PH164	PH165	PH166	PH167	PH168	PH169	PH170	PH171	PH172	PH173	PH174	PH175	PH176	PH177	PH178	PH179	PH180	PH181	PH182	PH183	PH184	PH185	PH186	PH187	PH188	PH189	PH190	PH191	PH192	PH193	PH194	PH195	PH196	PH197	PH198	PH199	PH200	PH201	PH202	PH203	PH204	PH205	PH206	PH207	PH208	PH209	PH210	PH211	PH212	PH213	PH214	PH215	PH216	PH217	PH218	PH219	PH220	PH221	PH222	PH223	PH224	PH225	PH226	PH227	PH228	PH229	PH230	PH231	PH232	PH233	PH234	PH235	PH236	PH237	PH238	PH239	PH240	PH241	PH242	PH243	PH244	PH245	PH246	PH247	PH248	PH249	PH250	PH251	PH252	PH253	PH254	PH255	PH256	PH257	PH258	PH259	PH260	PH261	PH262	PH263	PH264	PH265	PH266	PH267	PH268	PH269	PH270	PH271	PH272	PH273	PH274	PH275	PH276	PH277	PH278	PH279	PH280	PH281	PH282	PH283	PH284	PH285	PH286	PH287	PH288	PH289	PH290	PH291	PH292	PH293	PH294	PH295	PH296	PH297	PH298	PH299	PH300	PH301	PH302	PH303	PH304	PH305	PH306	PH307	PH308	PH309	PH310	PH311	PH312	PH313	PH314	PH315	PH316	PH317	PH318	PH319	PH320	PH321	PH322	PH323	PH324	PH325	PH326	PH327	PH328	PH329	PH330	PH331	PH332	PH333	PH334	PH335	PH336	PH337	PH338	PH339	PH340	PH341	PH342	PH343	PH344	PH345	PH346	PH347	PH348	PH349	PH350	PH351	PH352	PH353	PH354	PH355	PH356	PH357	PH358	PH359	PH360	PH361	PH362	PH363	PH364	PH365	PH366	PH367	PH368	PH369	PH370	PH371	PH372	PH373	PH374	PH375	PH376	PH377	PH378	PH379	PH380	PH381	PH382	PH383	PH384	PH385	PH386	PH387	PH388	PH389	PH390	PH391	PH392	PH393	PH394	PH395	PH396	PH397	PH398	PH399	PH400	PH401	PH402	PH403	PH404	PH405	PH406	PH407	PH408	PH409	PH410	PH411	PH412	PH413	PH414	PH415	PH416	PH417	PH418	PH419	PH420	PH421	PH422	PH423	PH424	PH425	PH426	PH427	PH428	PH429	PH430	PH431	PH432	PH433	PH434	PH435	PH436	PH437	PH438	PH439	PH440	PH441	PH442	PH443	PH444	PH445	PH446	PH447	PH448	PH449	PH450	PH451	PH452	PH453	PH454	PH455	PH456	PH457	PH458	PH459	PH460	PH461	PH462	PH463	PH464	PH465	PH466	PH467	PH468	PH469	PH470	PH471	PH472	PH473	PH474	PH475	PH476	PH477	PH478	PH479	PH480	PH481	PH482	PH483	PH484	PH485	PH486	PH487	PH488	PH489	PH490	PH491	PH492	PH493	PH494	PH495	PH496	PH497	PH498	PH499	PH500
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B SIZE CODE CS B142-0-1 NUMBER REV.

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



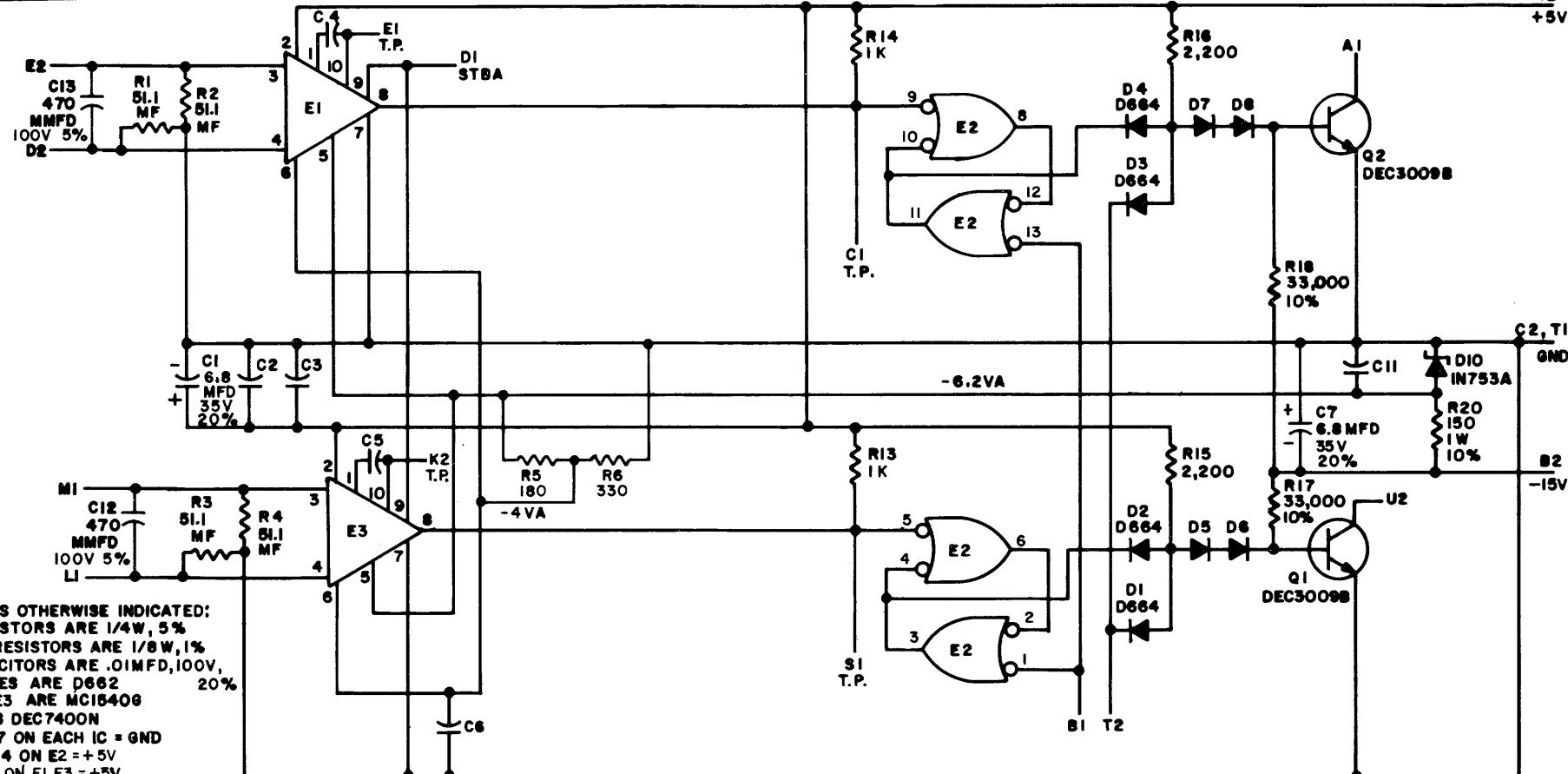
REVISIONS	DRN.	DATE	CHK/CHG NO.	REV.
	<i>M. Haller</i>	2-10-67		
	<i>F. Schleman</i>	2/14/67		
	<i>JCS</i>	7/16/67		
	PROD.	DATE		

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3639-IB	2N3639		
D662	IN645		
D664	IN3606		

digital		TITLE	
EQUIPMENT CORPORATION		DIODE GATE B142	
SIZE	CODE	NUMBER	REV.
B	CS	B142-0-1	
PRINTED CIRCUIT REV. A			

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SIZE CODE B CS 6020-0-1
NUMBER REV. J



USE THE ETCH BOARD OF THE 6021

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

REVISIONS	CHK	CHG NO.	REV	G	O	W	K	X	Y
		00000							
		00002							
		00003							
		00004							
		00005							
		00007							

DRN	M. Waller	DATE
		7-18-67
CHK'D	L. M. Waller	DATE
ENT	K. Sawyer, P.M.	DATE
PROD.	2	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3009B	2N3009		
D662	IN645		
D664	IN3606		
IN753A	SAME		



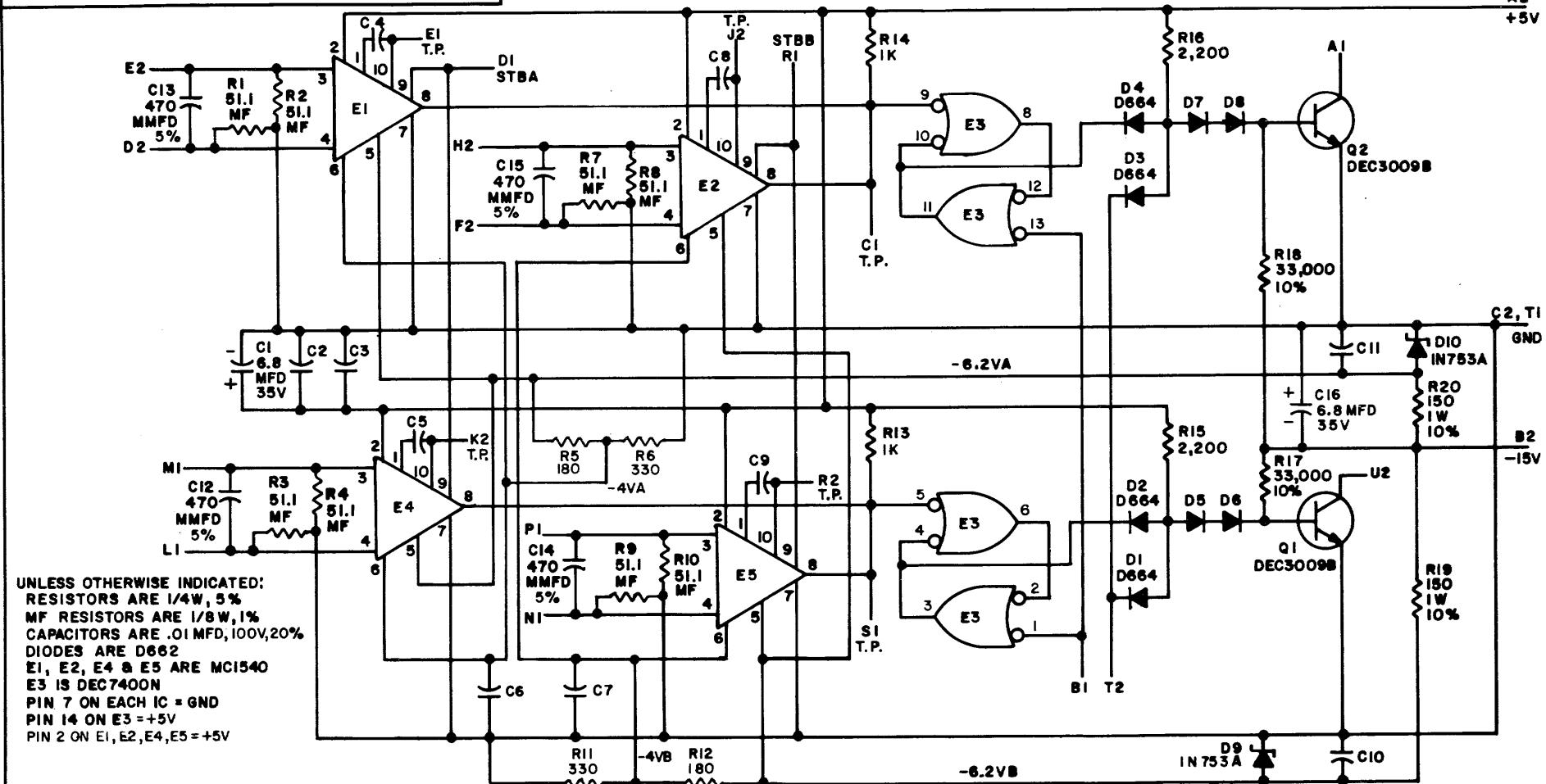
TITLE
SENSE AMP. G020
SIZE B CODE CS 6020-0-1 NUMBER REV. J
PRINTED CIRCUIT REV. H

SIZE CODE B CS 6021-0-1
NUMBER

REV. J

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A2
+5V



UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 5%
MF RESISTORS ARE 1/8W, 1%
CAPACITORS ARE .01 MFD, 100V, 20%
DIODES ARE D664
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

REVISIONS	CHK NO.	REV.	C	D	U	W	X	Y
	00000	0	00000	0	00000	0	00000	0
	00000	1	00000	0	00000	0	00000	0
	00000	2	00000	0	00000	0	00000	0
	00000	3	00000	0	00000	0	00000	0
	00000	4	00000	0	00000	0	00000	0
	00000	5	00000	0	00000	0	00000	0
	00000	6	00000	0	00000	0	00000	0
	00000	7	00000	0	00000	0	00000	0
	00000	8	00000	0	00000	0	00000	0
	00000	9	00000	0	00000	0	00000	0
	00000	10	00000	0	00000	0	00000	0

DRN.	DATE	DRN.	DATE
m. Waller	4-11-67		
CHK'D	4-11-67		
ENR	4-11-67		
PROD.	2		

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC3009B	2N3009		
D662	IN645		
D664	IN3606		
IN753	SAME		

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

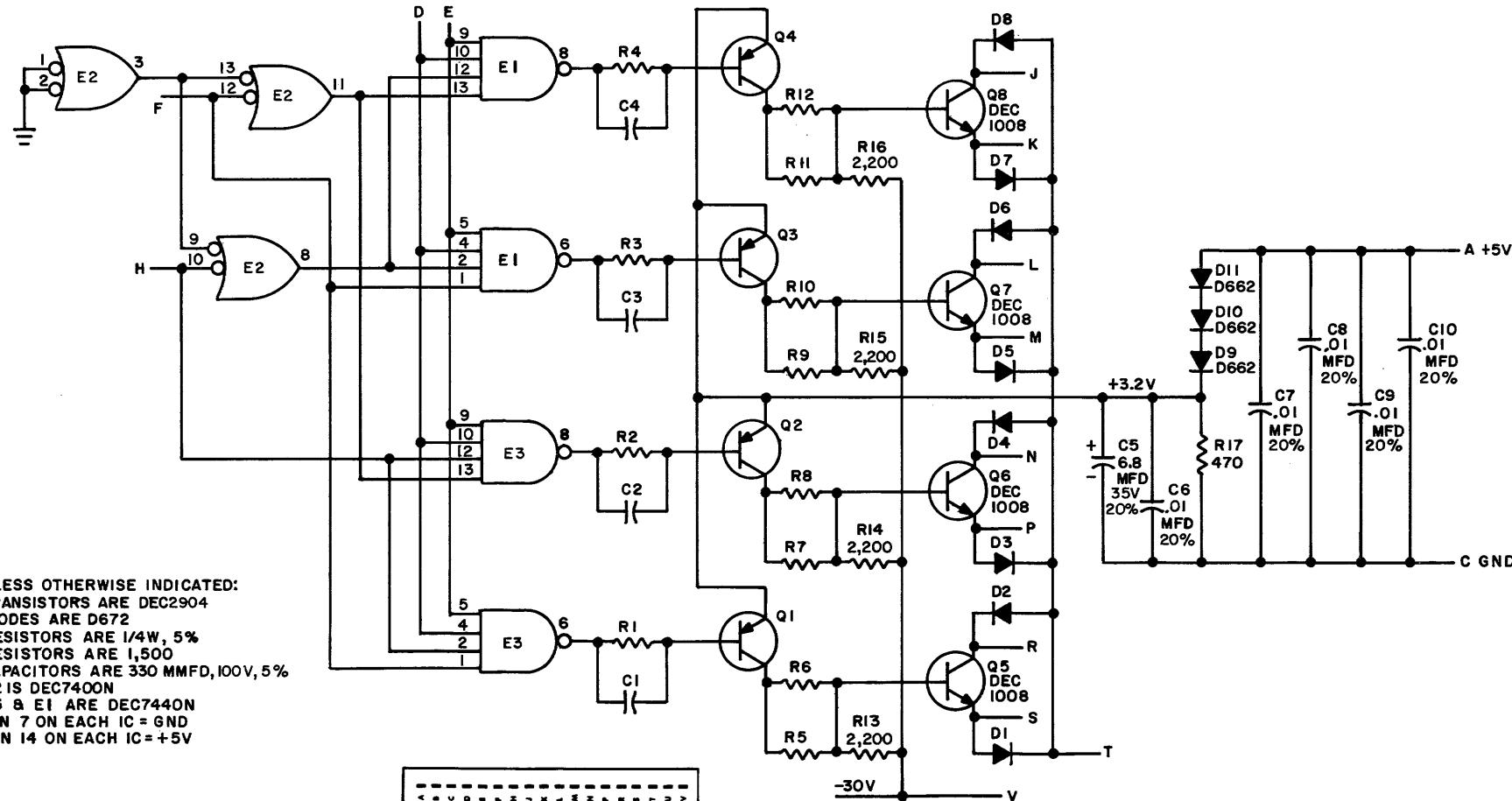
TITLE
SENSE AMP. GO21

SIZE B CODE CS 6021-0-1
NUMBER
REV. J

PRINTED CIRCUIT REV. H

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SIZE CODE CS G221-0-1
REV D NUMBER



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 DECT7400N
E3 & E1 ARE DECT7440N
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V

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

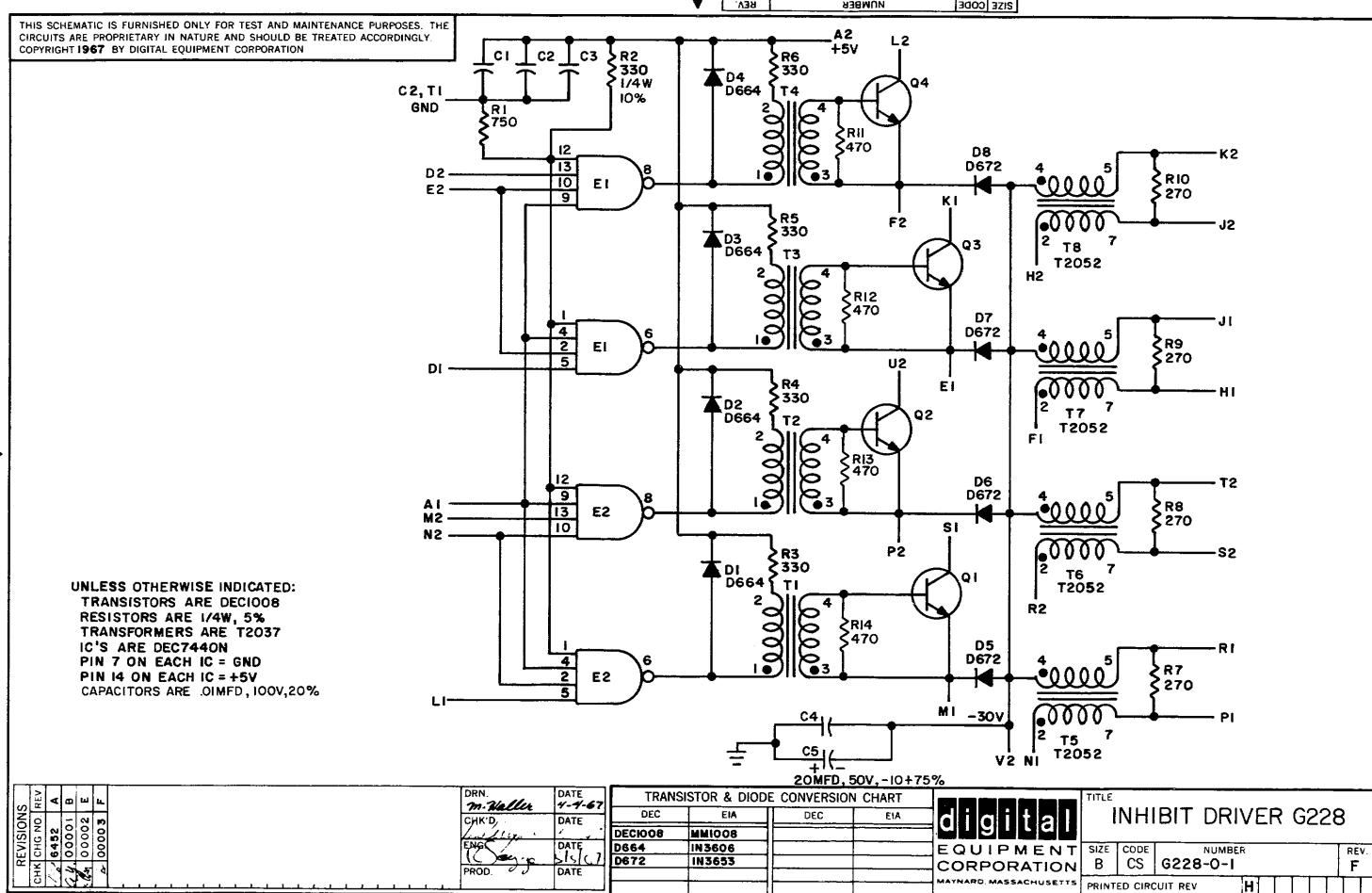
REVISIONS	CHK	CHG NO.	REV.	A	B	C	D
		6481					
		6508					
		00001					
		00004					

DRN.	M.Weller	DATE
CHK/D		1-3-67
ENG		3/3/67
PROD.	Sarge	5/5/67

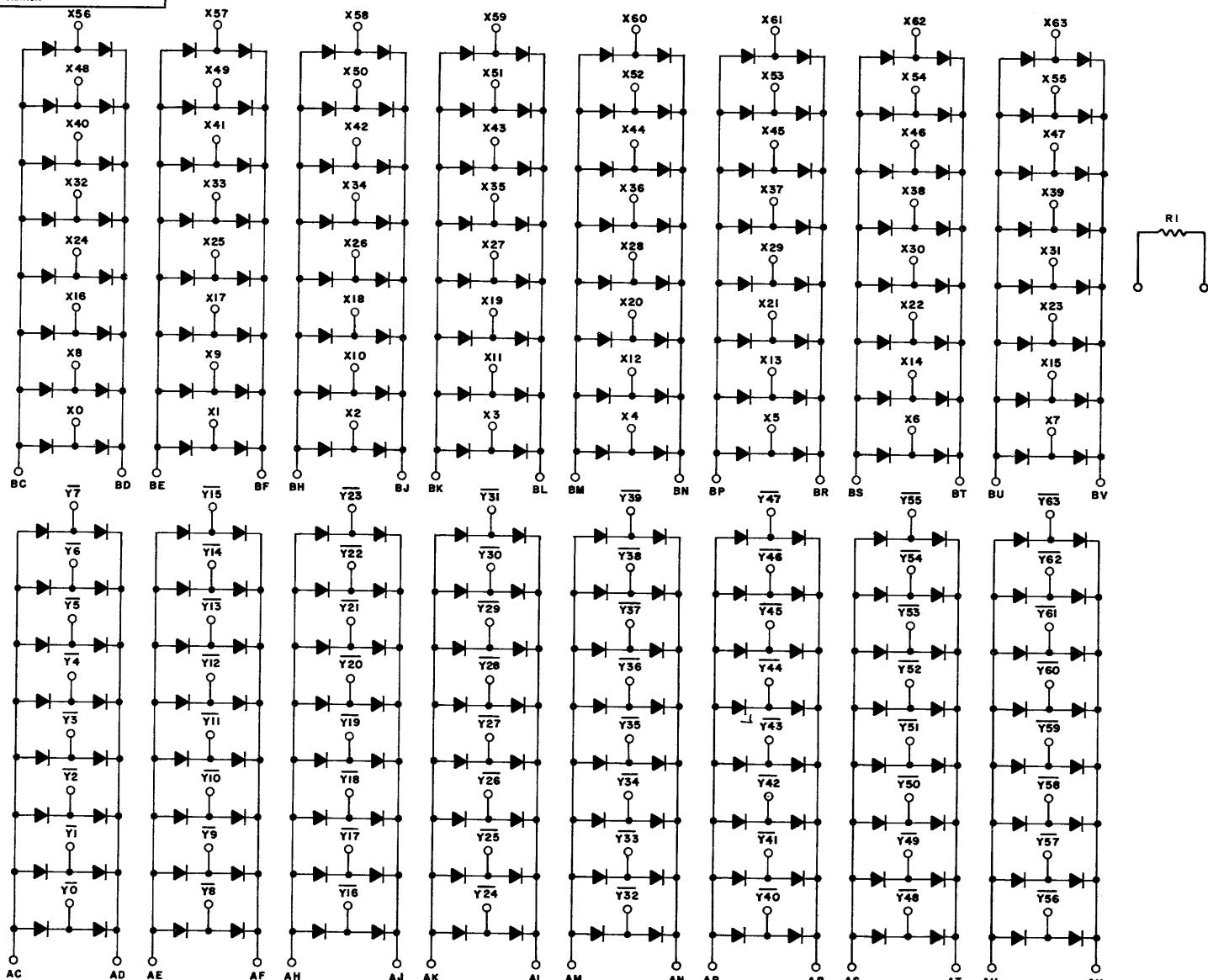
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC1008	MM1008		
DEC2904	2N2904		
D662	IN645		
D672	IN3653		



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



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REVISIONS			
CHK	CHG	NO.	REV
WZ		00001	B

DEC FORM NO.
DRC 102

DRN: *M.Wallin* DATE: *1/18/66*

CHK'D: *F.Johansson* DATE: *1/18/66*

ENCL: *1* DATE: *1/18/66*

PROD: *03* DATE: *1/18/66*

TRANSISTOR & DIODE CONVERSION CHART

DEC EIA DEC EIA

D672 IN3683

digital

EQUIPMENT

CORPORATION

MAYNARD, MASSACHUSETTS

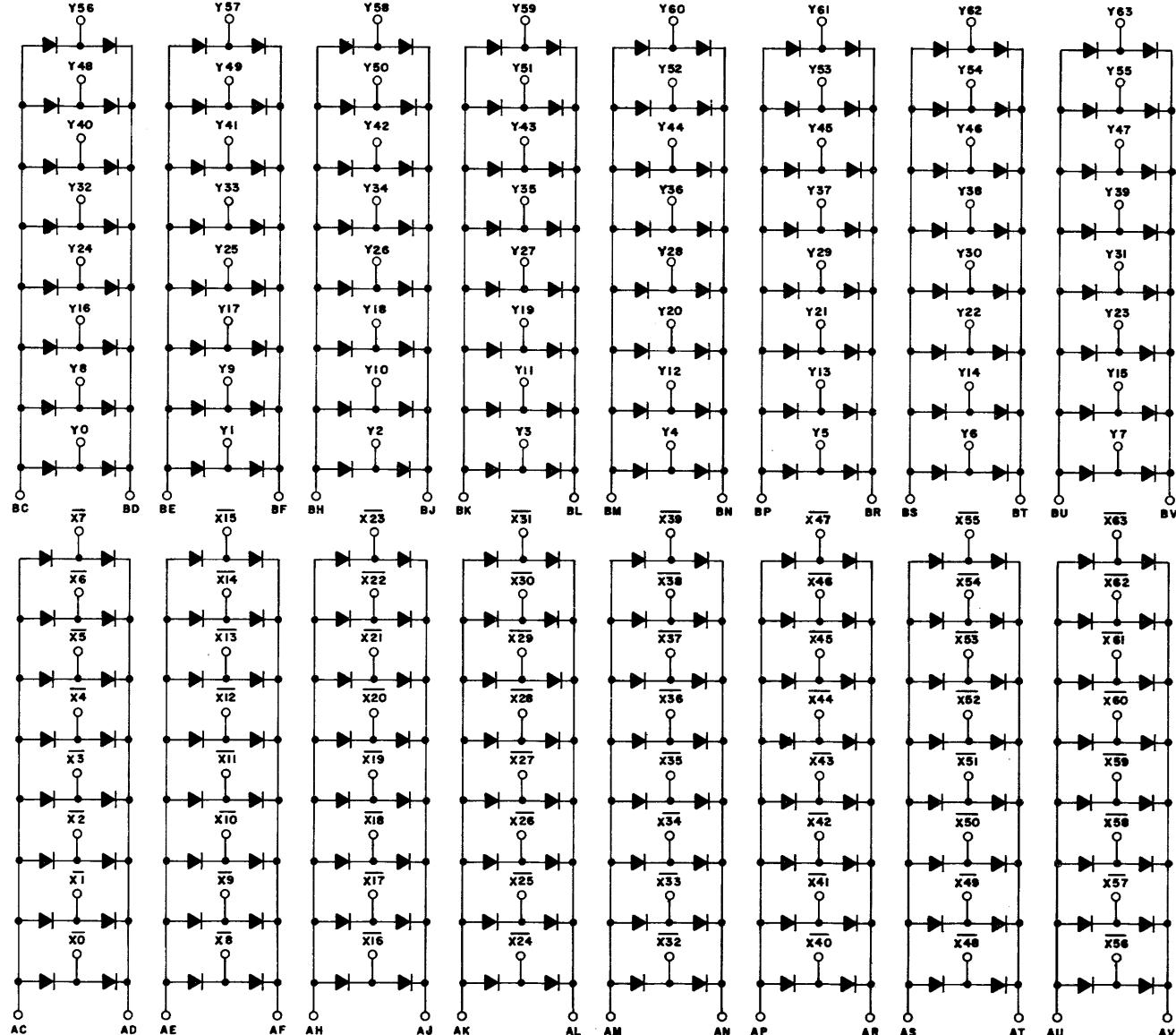
TITLE: A-DIODE BOARD G610

SIZE CODE: C CS NUMBER: G610-0-1

PRINTED CIRCUIT REV.: A B

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

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UNLESS OTHERWISE INDICATED:
DIODES ARE D672
USE D671 AS SUBSTITUTE

REV. A
DATE 11/15/66
C CS G611-0-1
NUMBER

REVISIONS		
CHK	CHG NO.	REV.
608		

DEC FORM NO.
DRC 102

CONVERSION CHART

DRN	DATE	DEC	EIA	DEC	EIA
m.miller	11-15-66	D672	IN3083		
CHK'D	DATE				
11/15/66					
PROD.	DATE				
C 2000	11/15/66				
	DATE				

TRANSISTOR & DIODE CONVERSION CHART

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

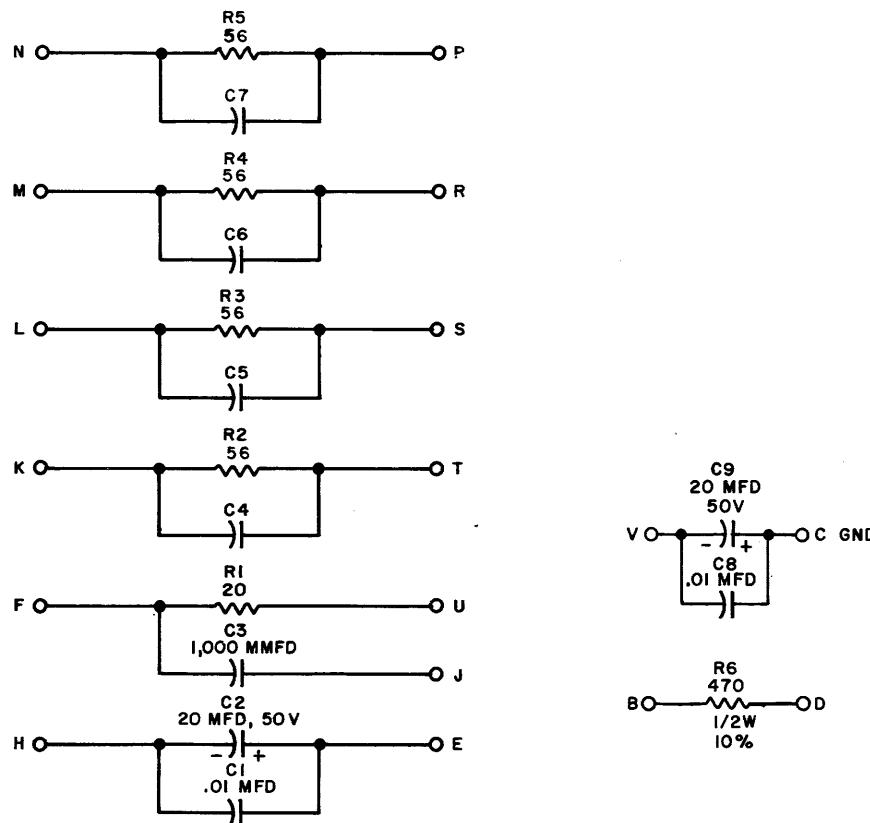
TITLE
B-DIODE BOARD G611

SIZE CODE NUMBER
C CS G611-0-1 REV.
A

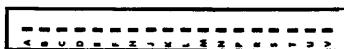
PRINTED CIRCUIT REV.
B A

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

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



REVISIONS		
CHK	CHG NO.	REV.
6442	A	
6561	B	
6709	C	
00001	D	

DRN.	DATE
M. Waller	5-24-67
CHK'D	DATE
EIA	DATE
PROD.	DATE

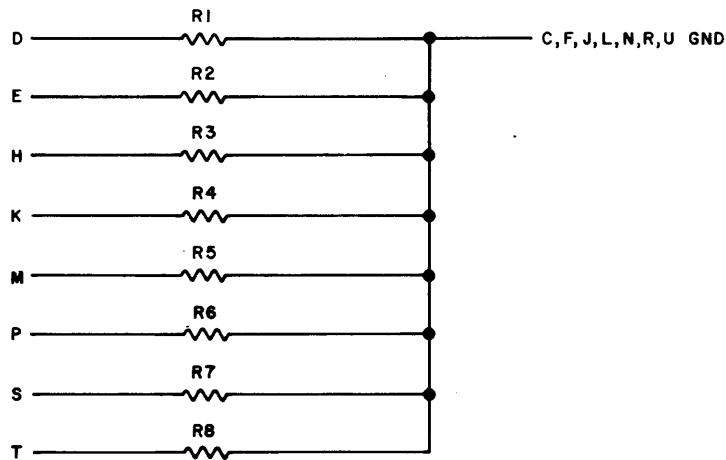
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
RESISTOR BOARD 6624
SIZE CODE B CS 6624-0-1 NUMBER D
REV. D
PRINTED CIRCUIT REV. C
DIST. 324 434 435
LINK

SIZE CODE CS G700-YA-I
NUMBER REV.

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

USE THE G700 ETCH

REVISIONS	CHK	CHG NO.	REV.
—			

DRN. <i>J. Cooper</i>	DATE 5/4/70
CHK'D <i>M. Waller</i>	DATE 5/4/70
END <i>J. Ben/and by 5/28/70</i>	DATE 5/28/70
PROD <i>Dewitt</i>	DATE 5/5/70

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

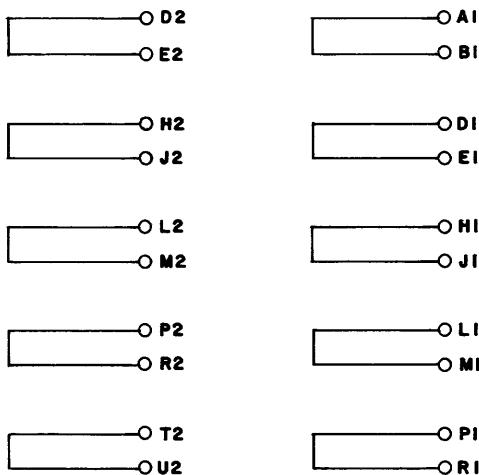
TITLE
100Ω TERMINATOR G700-YA
SIZE CODE CS G700-YA-I
NUMBER REV.

PRINTED CIRCUIT REV. B

SIZE CODE B CS G718-0-1 NUMBER REV A



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PARTS LIST IS A-PL-G718-0-0

REVISIONS	REV
	A
CHK	CHG NO
4	0000

DEC FORM NO.
DRB 102

DRN. *M. Weller* DATE *1-10-69*
CHK'D *M. Weller* DATE *1-19-69*
ENG. *R. J. ...* DATE *1-3-69*
PROD. DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

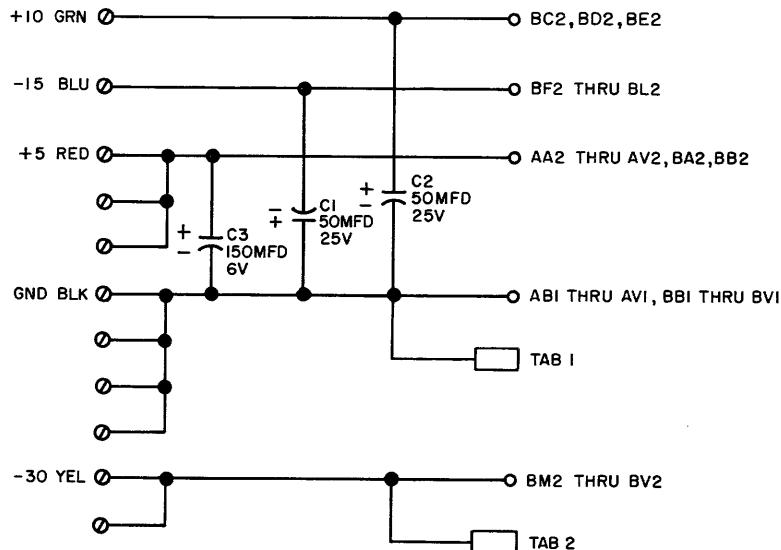
digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
TIMING JUMPER G718
SIZE CODE B CS G718-0-1 NUMBER REV A
PRINTED CIRCUIT REV. A

LINK DIST 324 439 155

REV. SIZE CODE B CS NUMBER G780-0-1

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UNLESS OTHERWISE INDICATED:

\ominus ARE EYELETS

TABS ARE DEC A-MD-7407196

REVISIONS	REV.
CHK CHG NO.	

DRN.	R. BUTLER	DATE
CHK'D	M. Hanrahan	4-24-69
END	L. Hale	5/5/69
PROD.		

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

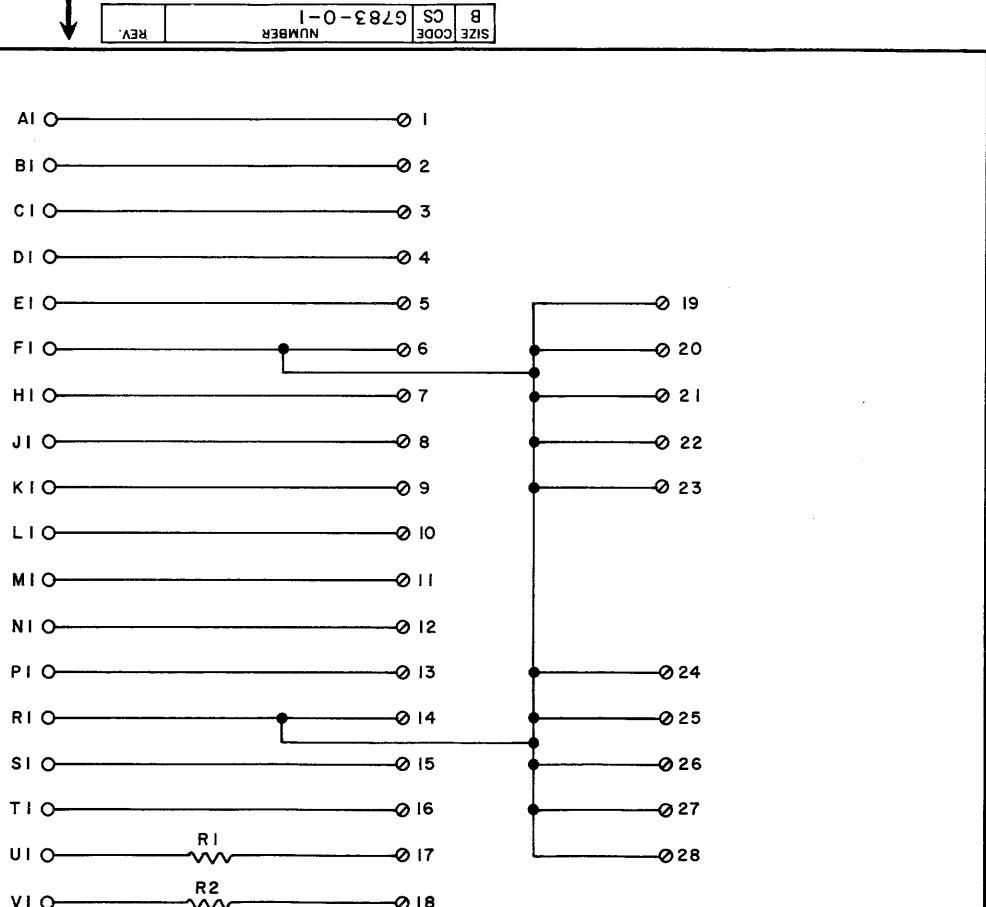
TITLE
POWER CONNECTOR G780
SIZE CODE B CS NUMBER G780-0-1 REV.
PRINTED CIRCUIT REV. A

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**COLOR CODING CHART BASED ON
STD. BELDEN PAIR DESIGNATION**

PAIR NO.	SHIELD	PIN	WIRE
1	RED	AI BI	BLK RED
2	RED	CI DI	BLK WHT
3	GRN	EI HI	BLK GRN
4	BLU	JI KI	BLK BLU
5	BLU	LI MI	BLK YEL
6	BLU	NI PI	BLK BRN
7	BLU	SI TI	BLK ORN
8	BLU	UI VI	RED WHT
9	BLU	FI RI	RED GRN

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



REVISIONS	CHG NO.	REV.
EHK		

DEC FORM NO.
DRB 102

DRN. <i>M. Weller</i>	DATE 4-14-69
CHK'D <i>M. Marshall</i>	DATE 4-16-69
ENG <i>J. Hale</i>	DATE 5/15/69
PROD.	DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA



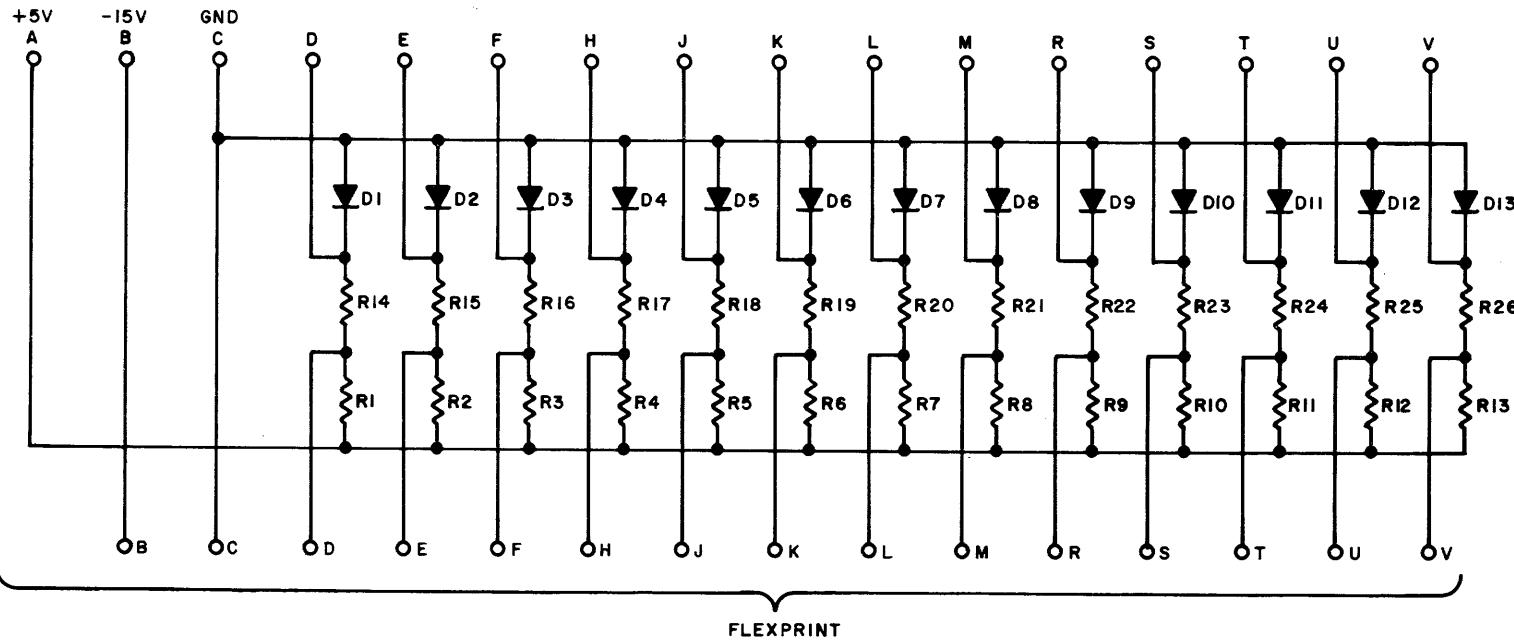
TITLE
CABLE CONNECTOR G783

SIZE B	CODE CS	NUMBER G783-0-1	REV.
-----------	------------	--------------------	------

PRINTED CIRCUIT REV. A

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B	SIZE	CODE	CS	6793-0-1	REV.	NUMBER
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RI THRU RI3	RES. 6.8K 1/4W 10% CC	I300463
RI4 THRU R26	RES. 1.5K 1/4 W 5% CC	I300391
DI THRU DI3	DIODE D664	I100114
	PARTS LIST	A-PL-G793-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

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

DEC FORM NO.
DRB 102

DORN. <i>M. Miller</i>	DATE 1-9-68
CHKD <i>P Silverman</i>	DATE 1/15/68
END <i>Soggo</i>	DATE 1/22/68
PROD.	DATE



PDP-8I SWITCH
CONNECTOR G793

T SIZE CODE **N** NUMBER
B CS G793-0-1

R
4

PRINTED CIRCUIT REV

- 314 11311 113E

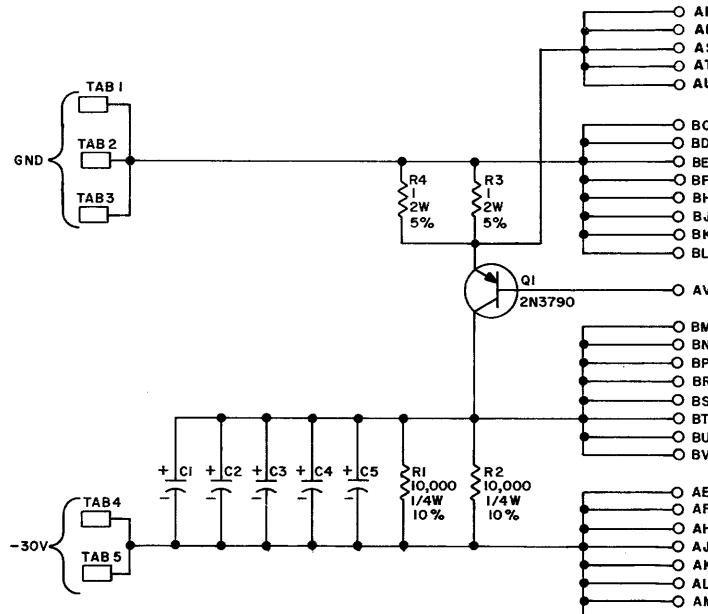
Punt

5

DIST.	324	434	455
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SIZE CODE G805-0-1 NUMBER
REV H



UNLESS OTHERWISE INDICATED:

CAPACITORS ARE 20MF D 50V, -10 + 75%
TABS ARE 250 SERIES FASTON TABS TYPE 60465-2 (AMP INC)
Q1 IS MOUNTED ON HEAT SINK, WAKEFIELD TYPE NC-623-A USING AN
ANODIZED ALUMINUM INSULATING WASHER & WAKEFIELD TYPE I20
THERMAL JOINT COMPOUND

PARTS LIST A-PL-G805-0-0

REVISIONS		CHK	CHG	NO	REV
				5002	B
				6468	C
				7072	D
				150002	E
				134	F

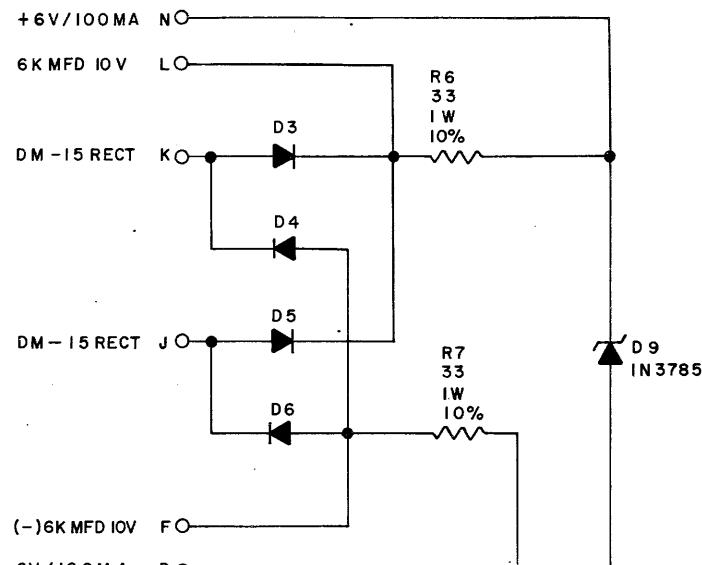
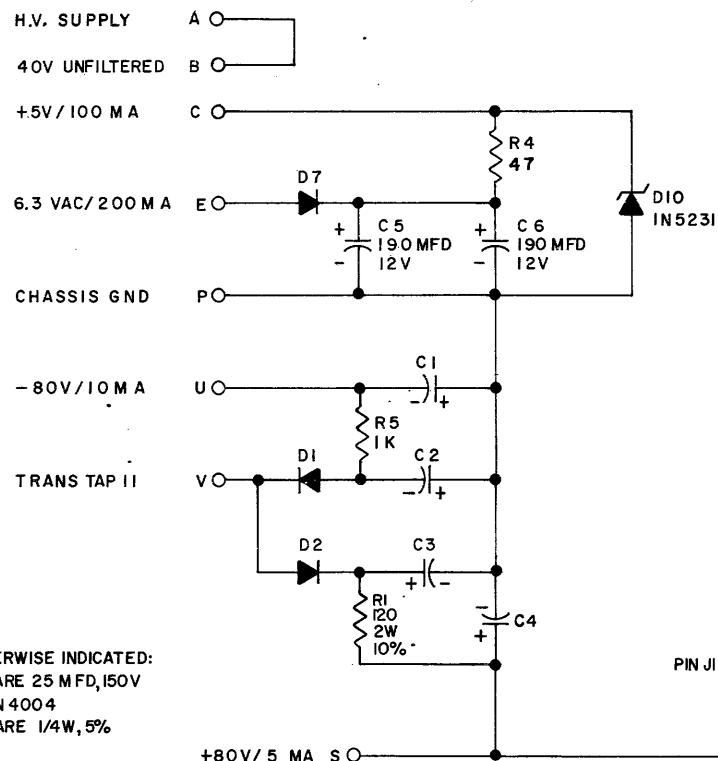
PRN	DATE
CHK'D	DATE
ENCL	DATE
PROD	DATE

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

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

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

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REVISIONS	
CHK	CHG NO.
CHK	00000
CHK	B

DRN	DATE
R. Burton	4-28-69
CHK	DATE
S. 1201	6-2-69
ENG	DATE
R. Burton	7-17-69
PROD.	DATE

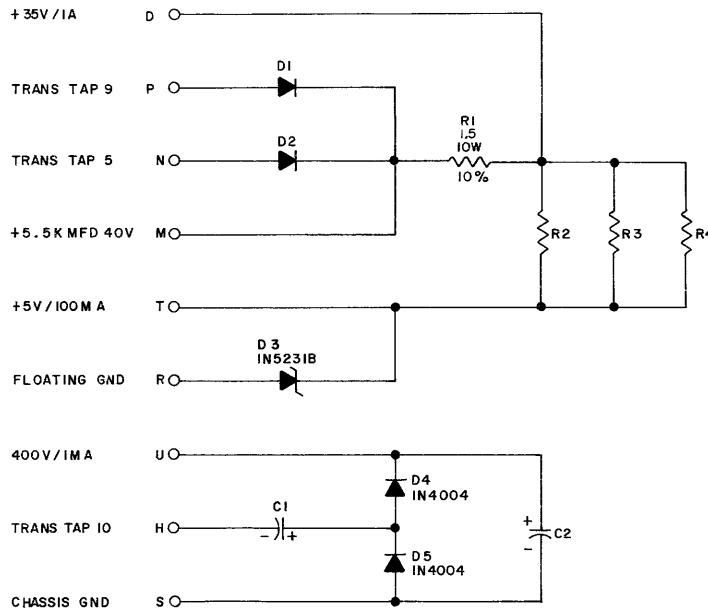
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
IN523IB	SAME		
IN3785	SAME		
IN4004	SAME		

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

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

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B CS G818-0-1 NUMBER REV D



REVISIONS		
CHK	CHG NO	REV
1	00001	C
2	00002	D

DEC FORM NO DRB 102

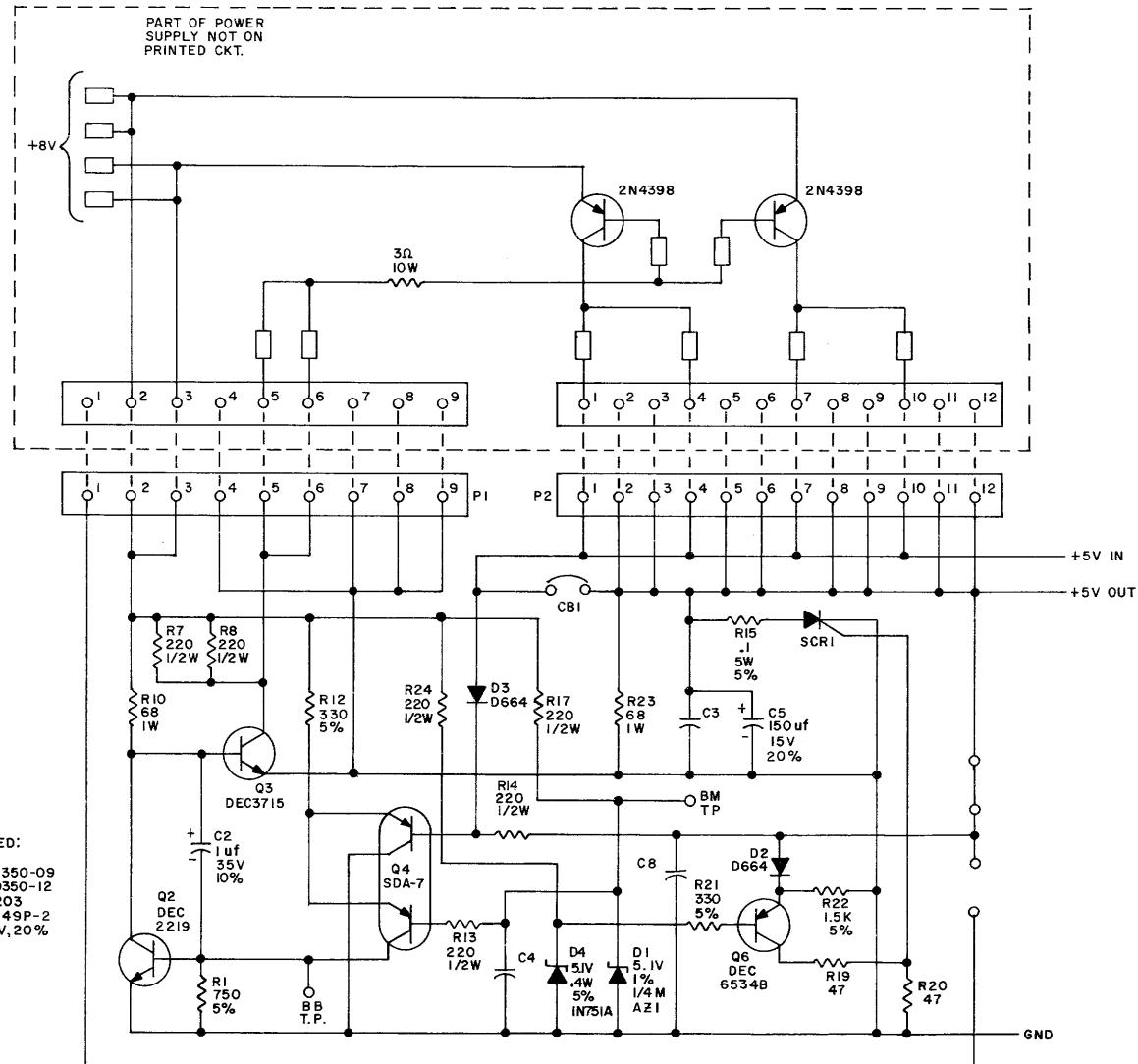
DRN	DATE
<i>S. Cuttino</i>	4-26-69
CHK'D	DATE
M	1-3-69
ENG'D	DATE
P	1-3-69
PROD'D	DATE
<i>10000</i>	<i>1-3-69</i>

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

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

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

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UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 10%
PI IS SOCKET HOUSING 1209350-09
P2 IS SOCKET HOUSING 1209350-12
CBI IS AIRPAX #UPL1-50-0203
SCRI IS A RECTIFIER MCR649P-2
CAPACITORS ARE 0.01uf, 100V, 20%

REVISIONS	
CHK	CHG NO.
<i>00001</i>	B
<i>00002</i>	C

DEC FORM NO

DRN: <u>Dr. Wallen</u>		TRANSISTOR & DIODE CONVERSION CHART			
CHK'D <u>6/1/94</u>	DATE <u>6-7-94</u>	DEC <u>D664</u>	EIA <u>IN3606</u>	DEC <u>SDA-7</u>	EIA <u>SAME</u>
END <u>Fale</u>	DATE <u>stacky</u>	5. IV V4M AZI	NONE		
		DEC6534-B	MPWS6534		
		DEC2219	2N2219		
		DEC3715	NONE		

digital

EQUIPMENT CORPORATION

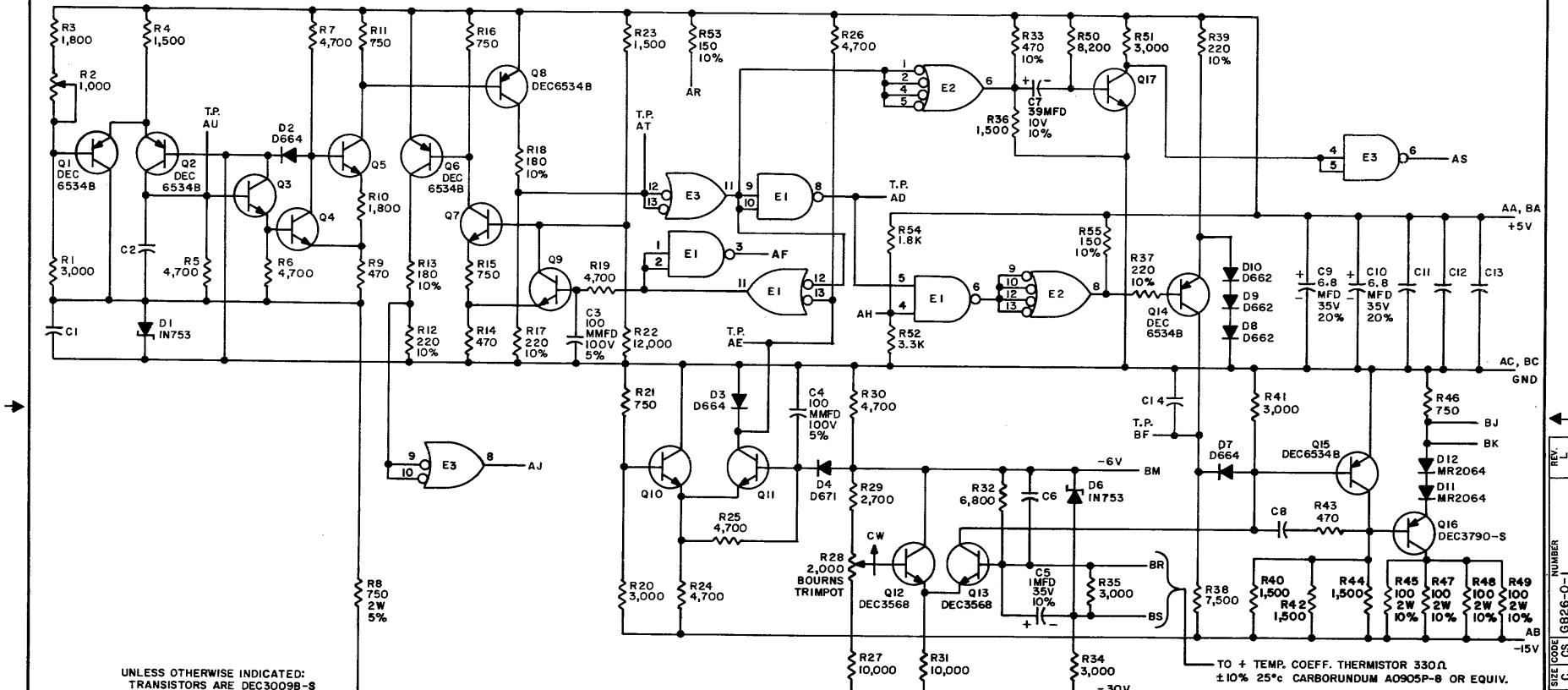
MAYNARD, MASSACHUSETTS

5 VOLT REGULATOR G824

ZE	CODE	NUMBER	REV.
C	CS	G824-0-1	C

INTED CIRCUIT REV. B

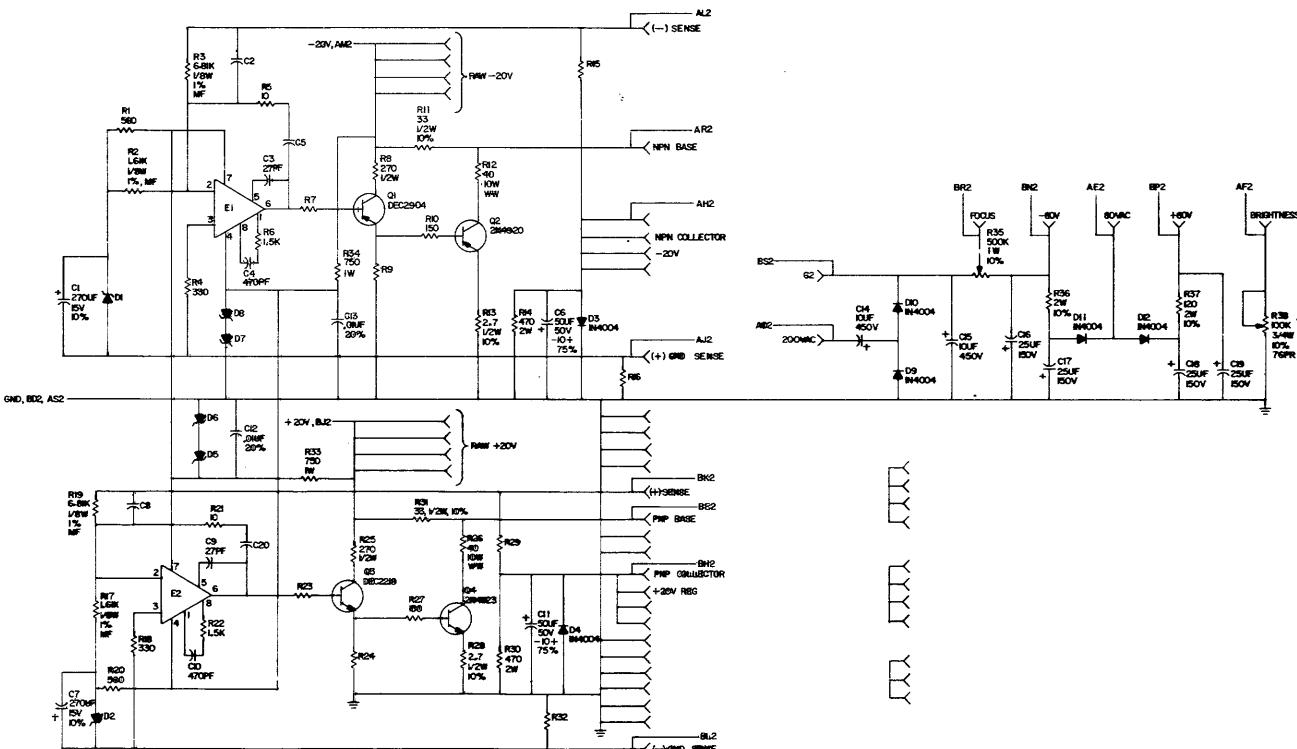
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UNLESS OTHERWISE INDICATED:
TRANSISTORS ARE DEC3009B-S
RESISTORS ARE 1/4W, 5%
CAPACITORS ARE .01 MFD
E1 & E3 ARE DECT7400N
E2 IS DEC7440N
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V

PARTS LIST A-PL-G826-0-0

THIS SCHEMATIC IS PROVIDED ONLY FOR TEST AND MAINTENANCE PURPOSES. THE CIRCUITS ARE NOT TO BE USED IN DESIGN AND CANNOT BE TREATED AS DESIGNER'S PROPERTY AND IS SUBJECT TO TRADE SECRET PROTECTION.



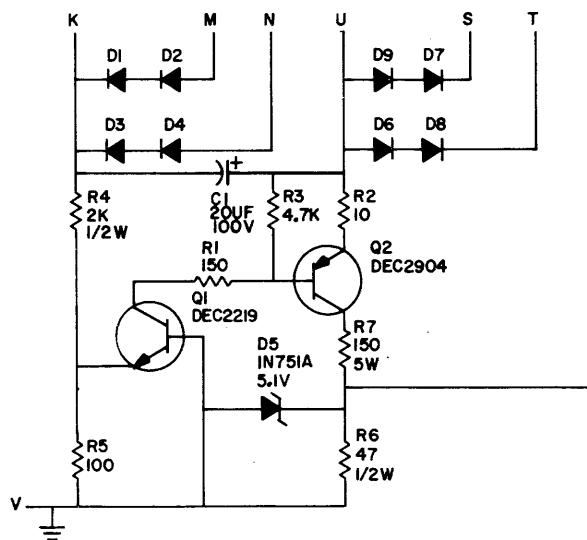
UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1K, 1W, 5%
DIODES ARE IN175A, 6.8V
CAPACITORS ARE 1000PF, 100V, 5%
E1, E2 ARE DECT93C
— EYELETS

TRANSISTOR & DIODE IDENTIFICATION CHECK		VR-14 POWER SUPPLY AND REGULATOR BD G836	
Transistor	Diode	Transistor	Diode
E1	D1	Q1	D2
E2	D3	Q2	D4

REVISION 1-1964-44 T
REV. DATE 01-01-64
G836-0-1
A
100% REPRODUCTION
PRINTED IN U.S.A.
7/1/87

SIZE CODE CS NUMBER G838-0-1 REV.

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UNLESS OTHERWISE INDICATED:

RESISTORS = 1/4W, 5%
DIODES = IN4004

REVISIONS	CHK	CHG NO.	REV.

DRN.	NANCY MOORE	DATE	12/18/70
CHK'D	Orderay	DATE	23 Dec 70
ENG	370104	DATE	2-29-70
PROD.		DATE	

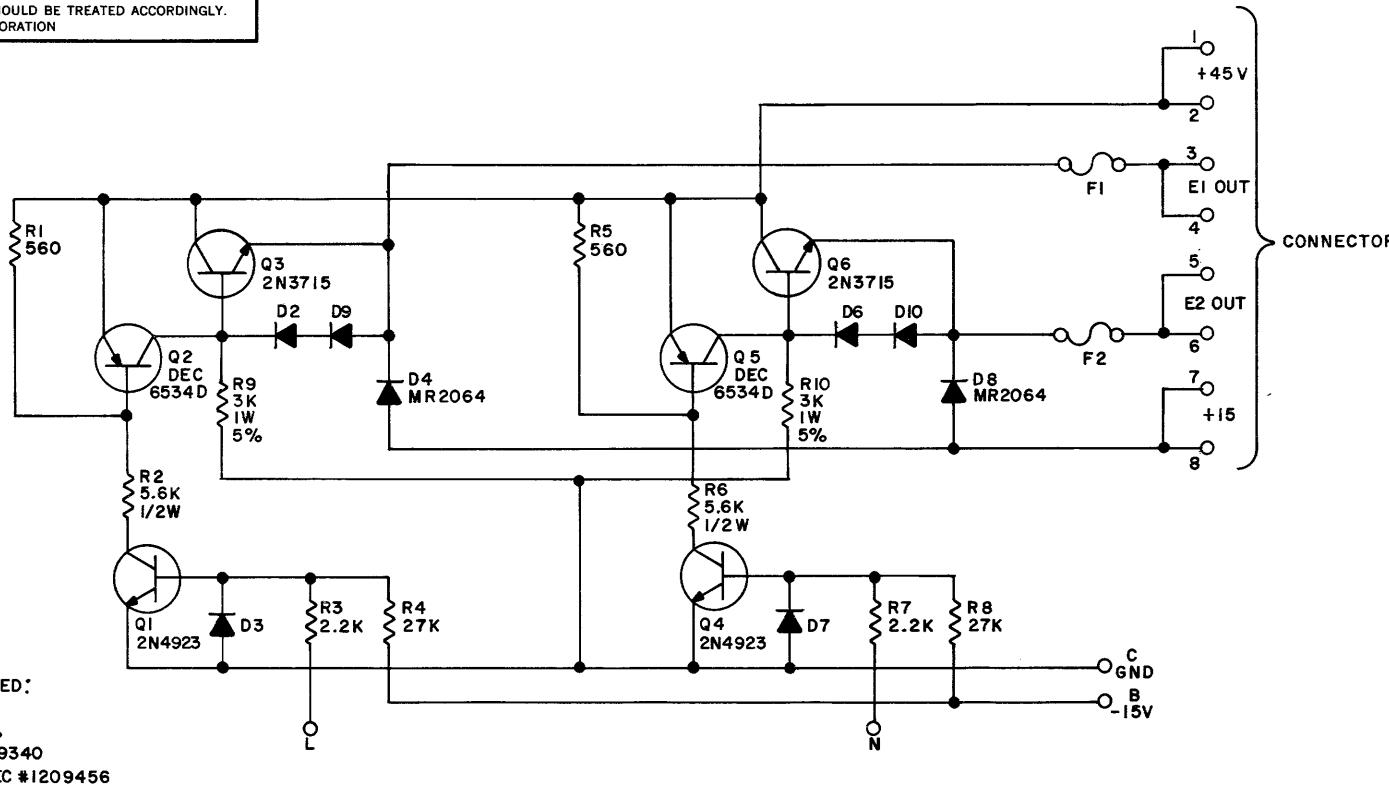
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
IN4004	SAME	IN781A	SAME
DEC2904	2N1132	DEC2219	2N2219

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE FAULT PROTECTION
BOARD G838
SIZE CODE CS NUMBER G838-0-1 REV.
PRINTED CIRCUIT REV. A

B CS 6847-0-1
SIZE CODE NUMBER REV.

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REVISIONS	
CHK	CHG NO.
REV.	REV.
4	00002
5	00003

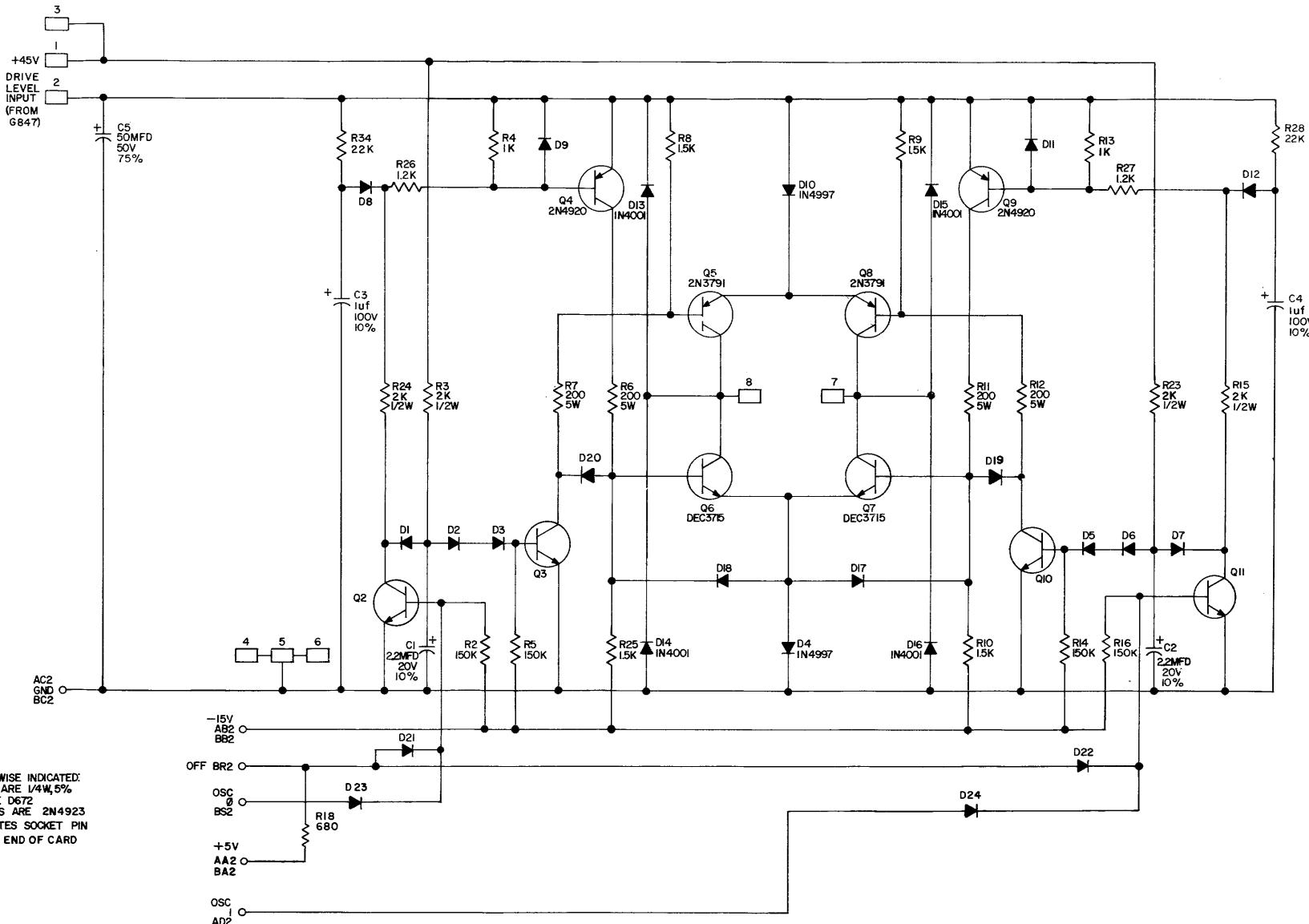
DRN.	DATE
G847	9-6-69
CHK D2	DATE
M. J. Lett	9/6/69
ENG. C. Lutting	DATE
C. Lutting	2-17-70
PROD.	DATE
DEC6534B	MPS6534

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

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

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

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REVISIONS	
CHG	CHG NO.
A	00001
B	00002
C	00003
D	00004
E	00005
F	00006

DEC FORM NO.
DRC 102

V-492-PX

DRN	DATE
00001	12-2-69
CHK'D	12-9-69
ENG	12-13-70
PROD	12-13-70

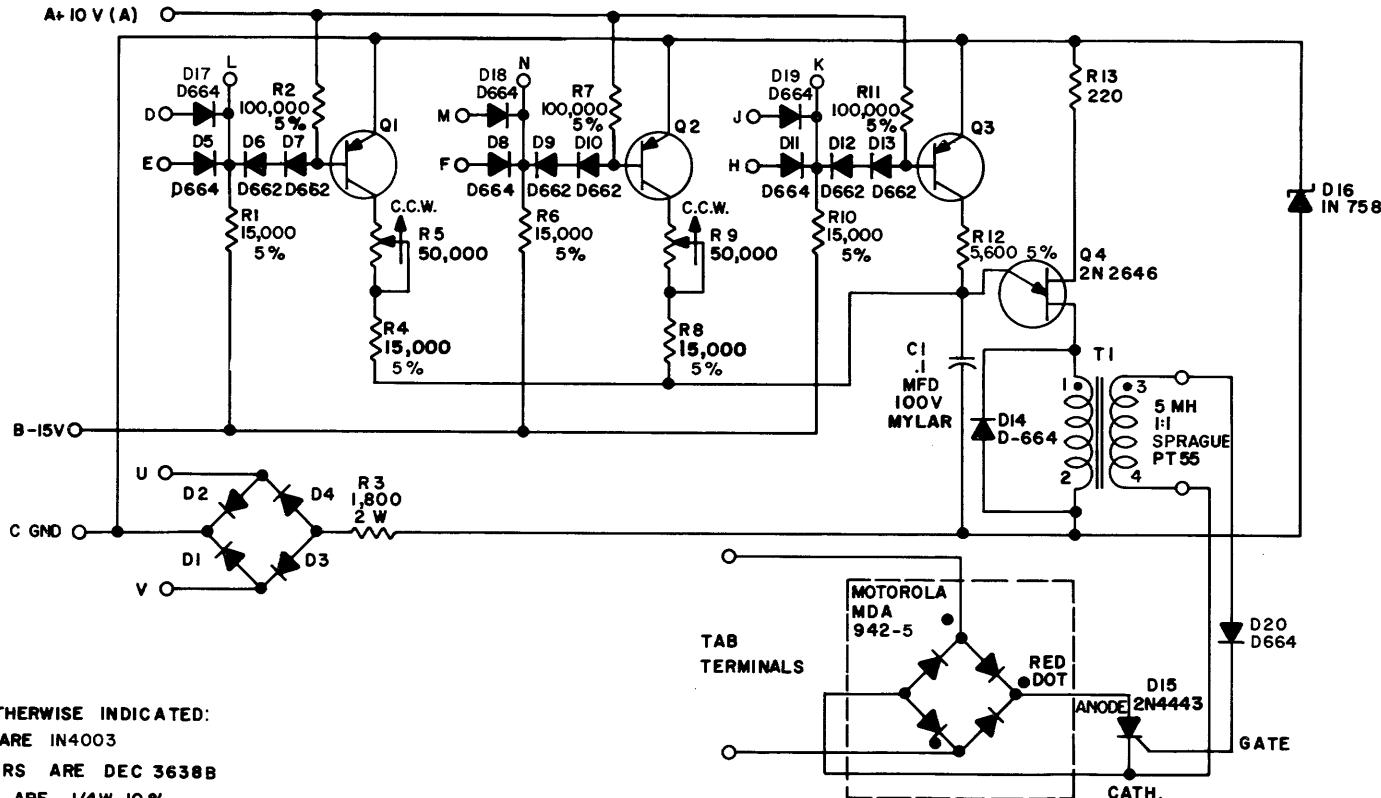
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D672	IN4053	2N4920	SAME
	SAME	2N4923	SAME
IN4001	SAME	MP6533	SAME
	SAME	DEC6534D	MP6534
DEC3715	2N3715		
	SAME		
2N3791	SAME		

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
MOTOR CONTROL G848
SIZE CODE NUMBER REV
C CS G848-0-I F
PRINTED CIRCUIT REV. L

L DIST 324 434 435 PINK

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REVISIONS													
CHK	CHG NO.	REV.	J	E	D	F	H	I	K	L	M	N	P
DEC 5266													
REV. G	REDR												
5358													
5420													
6806													
6800													
6365													
6469													
6818													
100001													
2/2													

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	EIA
DEC 3638	2N3638	IN758	IN758
2N2646	2N2646	2N4443	SAME
D662	IN645		
D664	IN3606		
IN4003	IN4003		

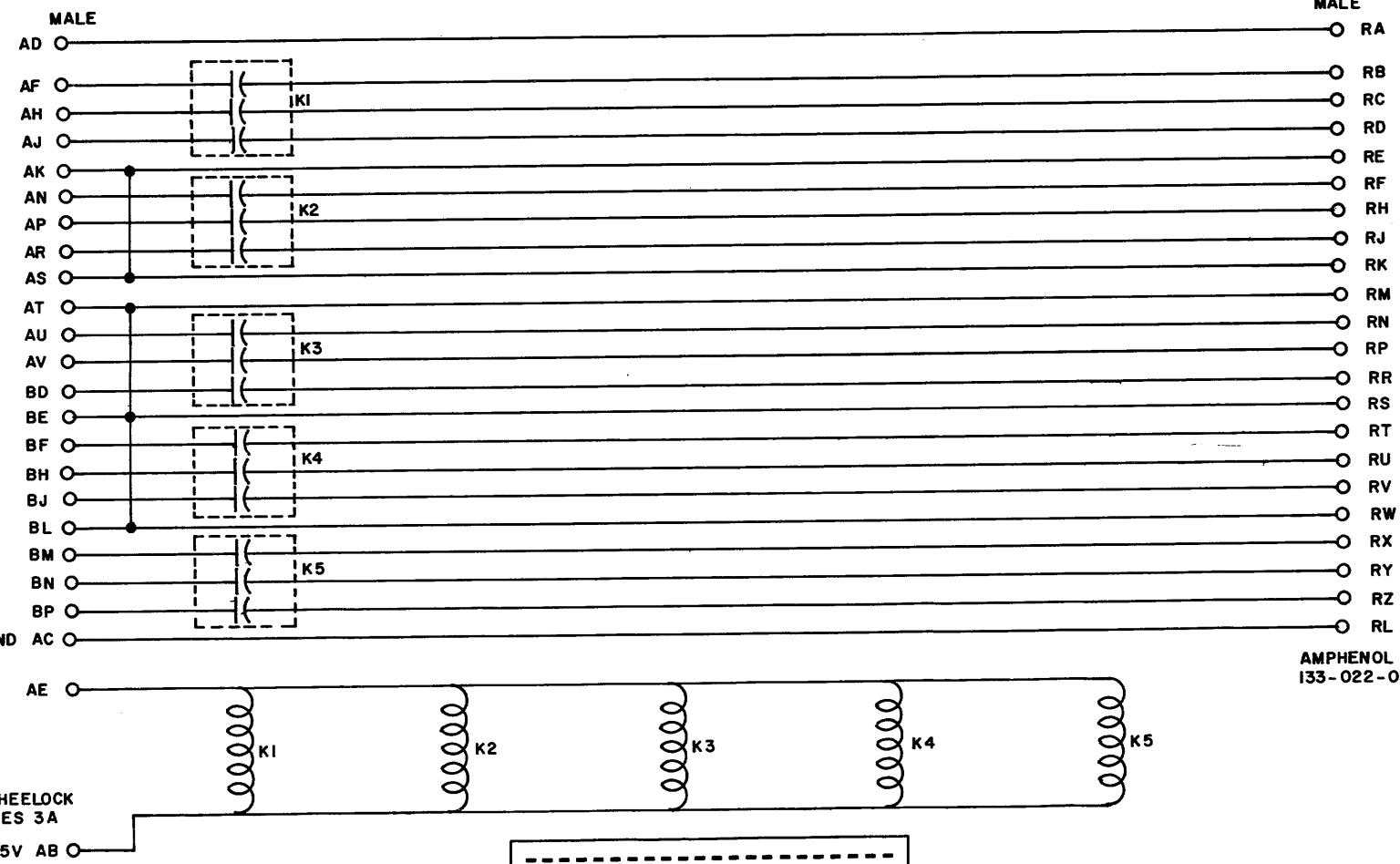
digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE S.C.R.
MOTOR DRIVER G850
SIZE CODE B CS G850-0-1
NUMBER
REV. P

PRINTED CIRCUIT REV.
E H J K L

SIZE CODE CS 685I-0-1 NUMBER B REV. B

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REVISIONS	CHK	CHG NO.	REV.
		DAW 4613	1
REV B			
		REV B	B

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

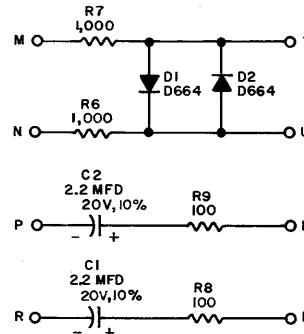
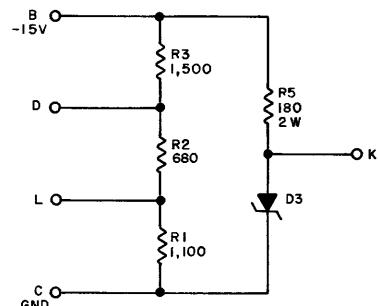
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
RELAY G85I
SIZE CODE CS 685I-0-1 NUMBER
B REV. B
PRINTED CIRCUIT REV. B

B CS G853-0-I NUMBER REV. A

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

REVISIONS	DRN	DATE
CHG/REV	2-Weller	7-5-67
1	1-21	1/1/67
2	Stan Burt	7-7-67
3	PROD.	DATE

DRN	DATE
2-Weller	7-5-67
CHG/D	1/1/67
ENR	7-7-67

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D664	IN3606		
IN758A	SAME		

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

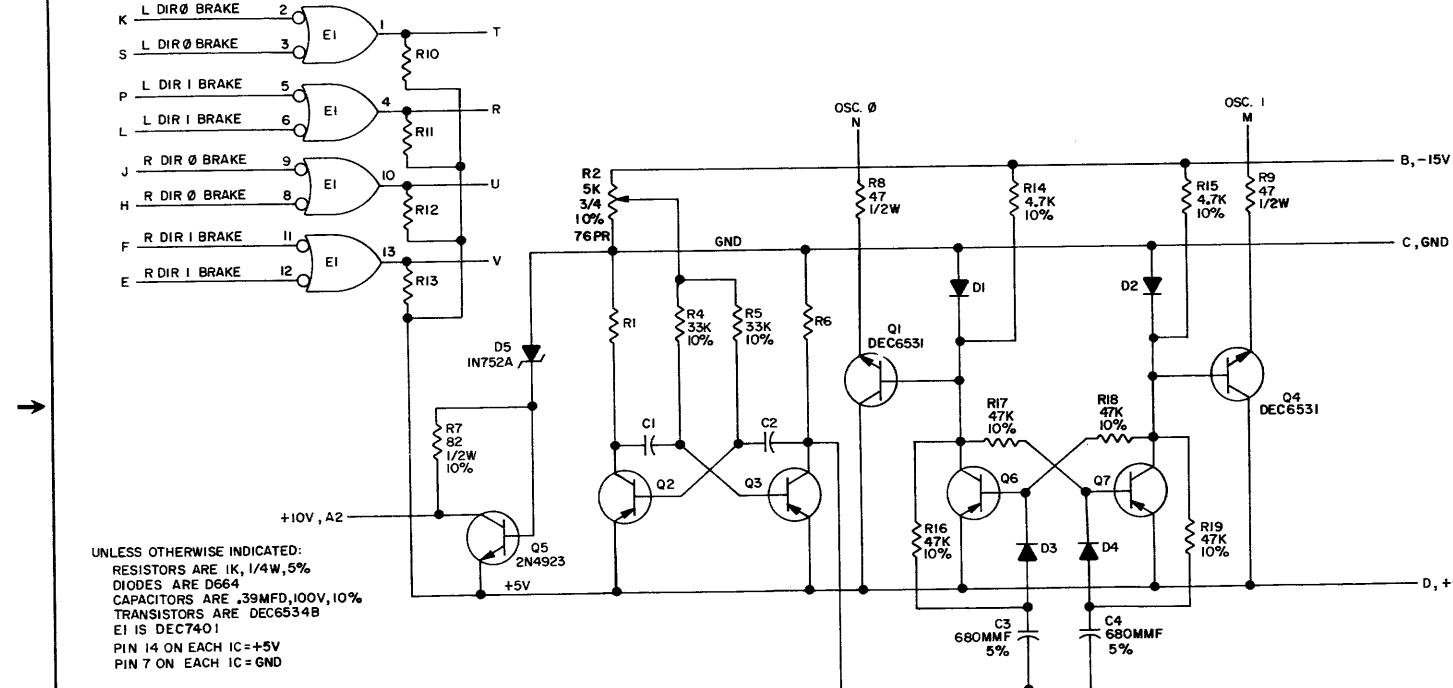
TITLE
MOTION & SELECTION
CIRCUIT G853
SIZE CODE NUMBER REV.
B CS G853-0-I A
PRINTED CIRCUIT REV. A

DEC FORM NO.
DRB 1C2

DIST 324.474 13 PINK

B CS SIZE CODE 6859-0-1 REV.

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REVISIONS	
CHK	0001
ENG	0002

DEC FORM NO. DRB 102

MS 171 7

DRN	BUTLER	DATE
CHK'D		11/1969
ENG	E. Lutting	11/1969
PROD		11/1969

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D664	IN3606		
DEC6534B	MPS6534B		
DEC6531	MPS6531		
2N4923	SAME		

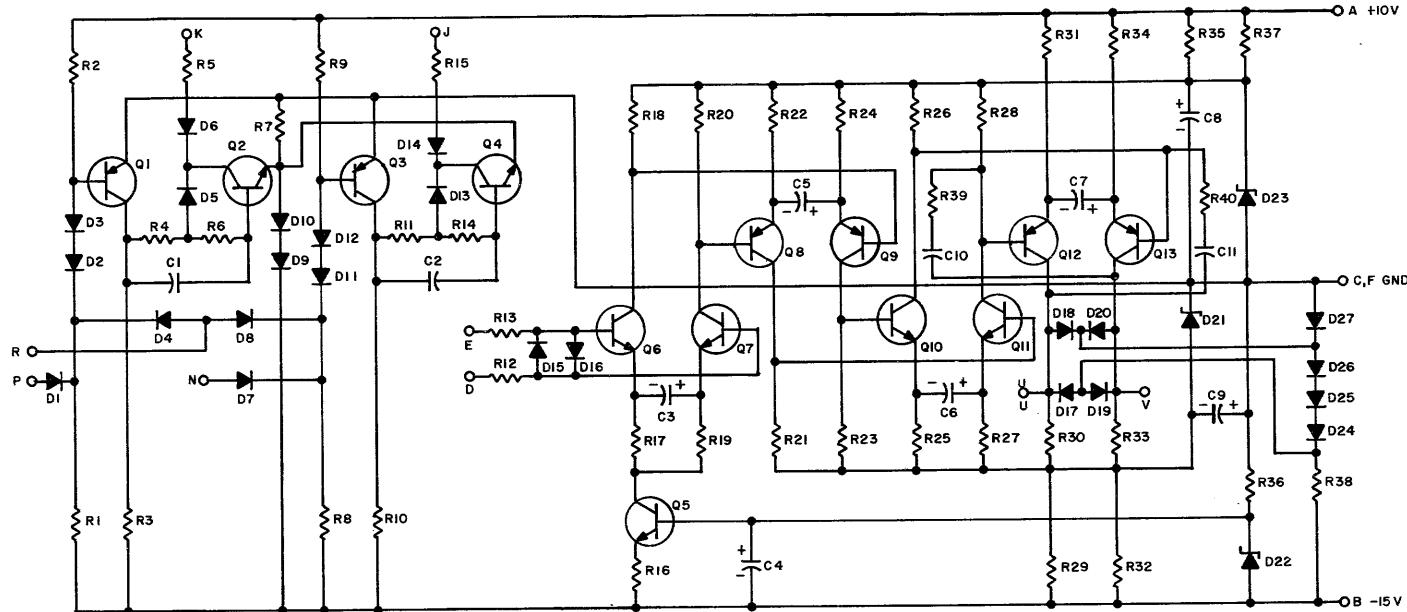
digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
CLOCK & REGULATOR G859
SIZE CODE NUMBER 6859-0-1 REV. B
PRINTED CIRCUIT REV. A

DIST. 344, 134,435 3

5 PINK

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REFERENCE DESIGNATION	DESCRIPTION	PART NO.
PARTS LIST		
Q8, Q9, Q12, Q13	TRANSISTOR DEC3638B	I502979
Q6, Q7, Q10, Q11	TRANSISTOR DEC3009B-S	I503100
Q5	TRANSISTOR DEC3009A-S	I501999
Q2, Q4	TRANSISTOR DEC3500-S	I503209
Q1, Q3	TRANSISTOR DEC2894-38-S	I503099
R39	RES. 120 1/4W 5% CC	I300247
R36, R38	RES. 470 1/2W 10% CC	I300318
R30, R33	RES. 3K 1/4W 5% CC	I300432
R17 THRU R21, R23, R25 THRU R28,		
R12, R13	RES. 220 1/4W 5% CC	I300271
R6, R14, R35, R37	RES. 560 1/4W 5% CC	I301890
R5, R15	RES. 68 2W 5% CC	I302308
R4, R11	RES. 750 1/4W 5% CC	I301401
R3, R7, R10, R16, R22, R24, R29, R31, R32, R34	RES. 1.5K 1/4W 5% CC	I300391
R2, R9	RES. 100K 1/4W 5% CC	I302466
R1, R8	RES. 7.5K 1/4W 5% CC	I301422
D23	DIODE 1/4M 6.8AZ	I100102
D22	DIODE IN748 3.9V	I100121
D21	DIODE IN756A 8.2V	I103441
D5, D6, D13, D14	DIODE D670	I102162
D2, D3, D11, D12, D24 THRU D27	DIODE D662	I100113
D1, D4, D7 THRU D10, D15 THRU D20	DIODE D664	I100114
C10, C11	CAP. 1.200MMF 100V 5% D.M.	I002430
C5	CAP. 2.2MF 20V 10%	I002627
C4, C6, C7, C8, C9	CAP. 3.9MFD 10V 10% S.TANT	I000064
C3	CAP. .47MF 20V 10% S.TANT	I005965
C1, C2	CAP. 680MMF 100V 5% D.M.	I000026
PARTS LIST		A-PL-G882-0-0

SITE CODE C CS G882-0-1
REV. D

REVISIONS	
CHK CNG NO REV.	3
REV & REDR.	6838
PROD.	D

DEC FORM NO.
DRC 102

DRN.	DATE	TRANSISTOR & DIODE CONVERSION CHART	
A. AQUILLETTTE	2-8-66	DEC	EIA
CHK'D	DATE		
R. SILVERMAN	2-9-66	DEC3638B	2N3638
ENG.	DATE	D662	IN645
R. SOHNE	2-9-66	DEC3009B	IN3606
PROD.	DATE	D670	IN3653
		IN756A	SAME
		DEC2894-38	NONE
		IN748	SAME



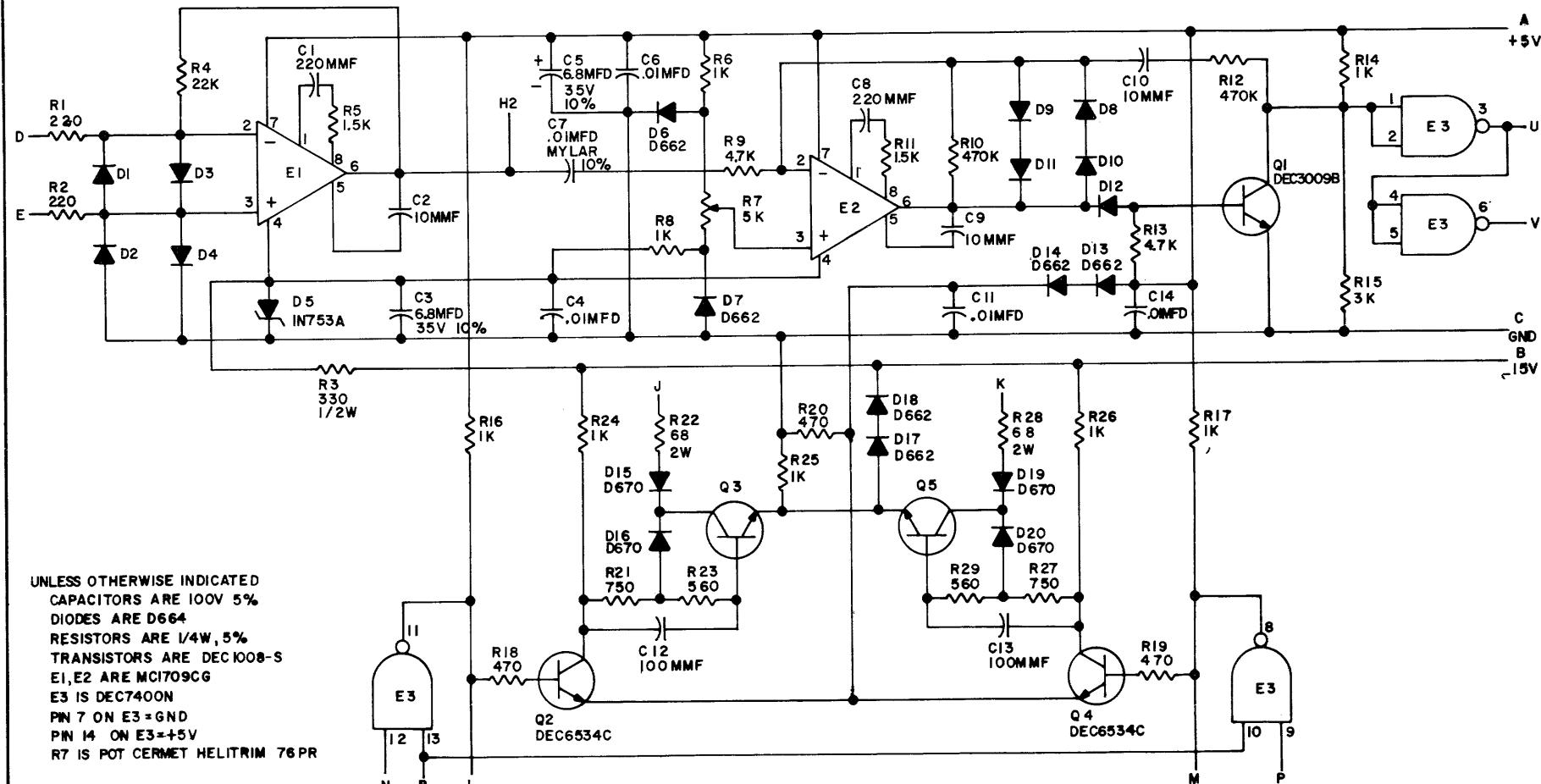
TITLE MANCHESTER READER
WRITER G882
SIZE CODE NUMBER REV.
C CS G882-0-1 D
PRINTED CIRCUIT REV. B

PINK

DIST. 324 434 439 389

REV. B CS G888-0-1
SIZE CODE NUMBER

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REVISIONS	CHNG NO	REV

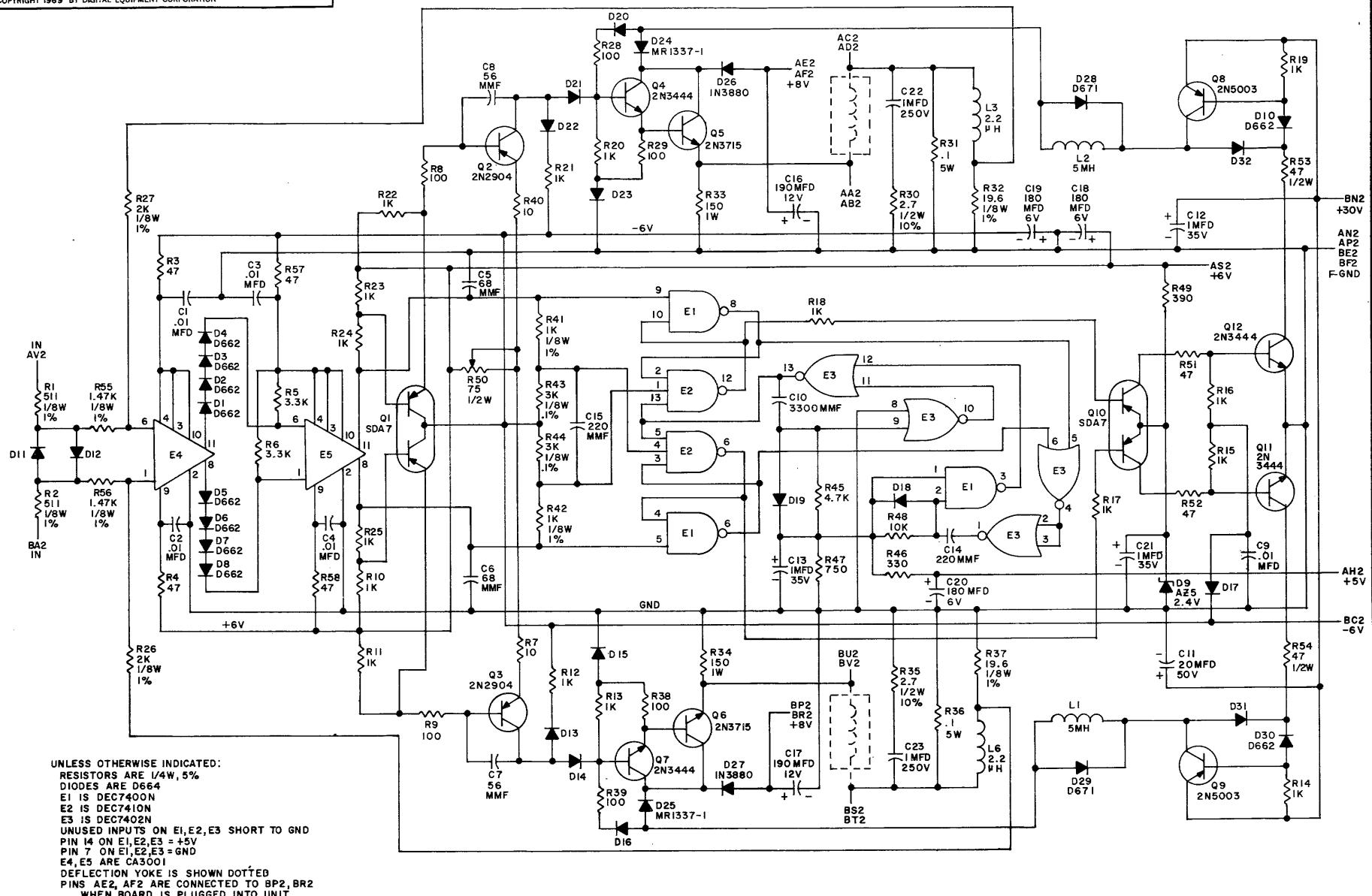
DRN.	DATE
G. Clancy	5-22-69
CHKD	9/16/69
ENG	9/25/69
PROD.	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D664	IN306	DEC1008-S	MM1008
D662	IN645		
D670	SAME		
DEC3009B	2N3009B		
DEC6534C	MP6534		

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE MANCHESTER
READER/WRITER G888
SIZE CODE NUMBER REV.
B CS G888-0-1
PRINTED CIRCUIT REV. A

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REVISIONS	REV.
CHR	G912-0-1

DRN. M. Hellen	DATE 6-10-69	TRANSISTOR & DIODE CONVERSION CHART	
		DEC	EIA
CHK'D A. Vanger	6-19-69	D662	IN645
ENG B. Lohman	8-7-69	D664	IN3605
PROD S. S. T. G.	8-7-69	D671	IN3653
		IN5880	SAME
		MR1337-1	NONE

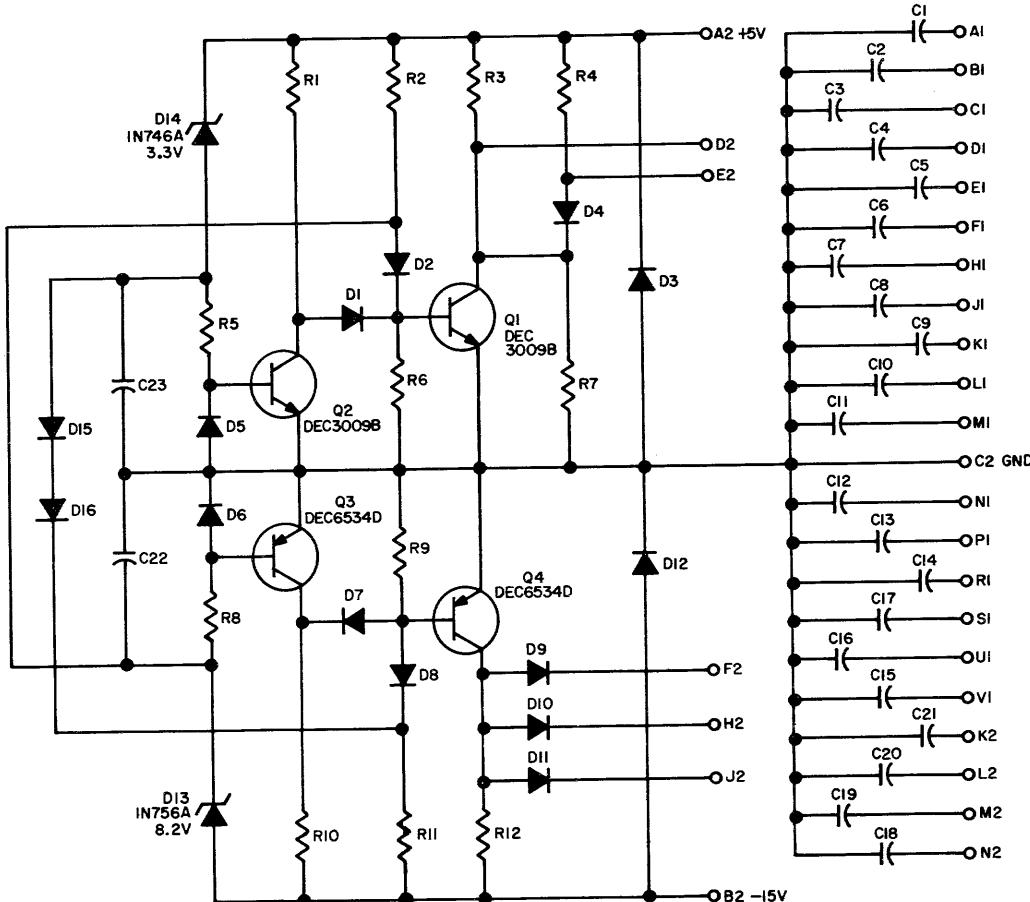
digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: DEFLECTION AMPLIFIER
G912
SIZE CODE NUMBER C CS G912-0-1 REV.
PRINTED CIRCUIT REV. B
DIST. 324, 434, 435
5
P. A. L.

REV. B CS SIZE CODE NUMBER G916-0-1

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



REVISIONS	DRN	DATE
	BUTLER	4/25/69
CHK	DATE	
M. Marshall	5-5-69	
ENG.	DATE	
R. Schwegel	6/16/69	
PROD.	DATE	
R. Schwegel	6/16/69	

DEC	EIA	DEC	EIA
DEC3009B	2N3009B		
DEC6534D	MPS6534		
D664	IN3606		

TRANSISTOR & DIODE CONVERSION CHART

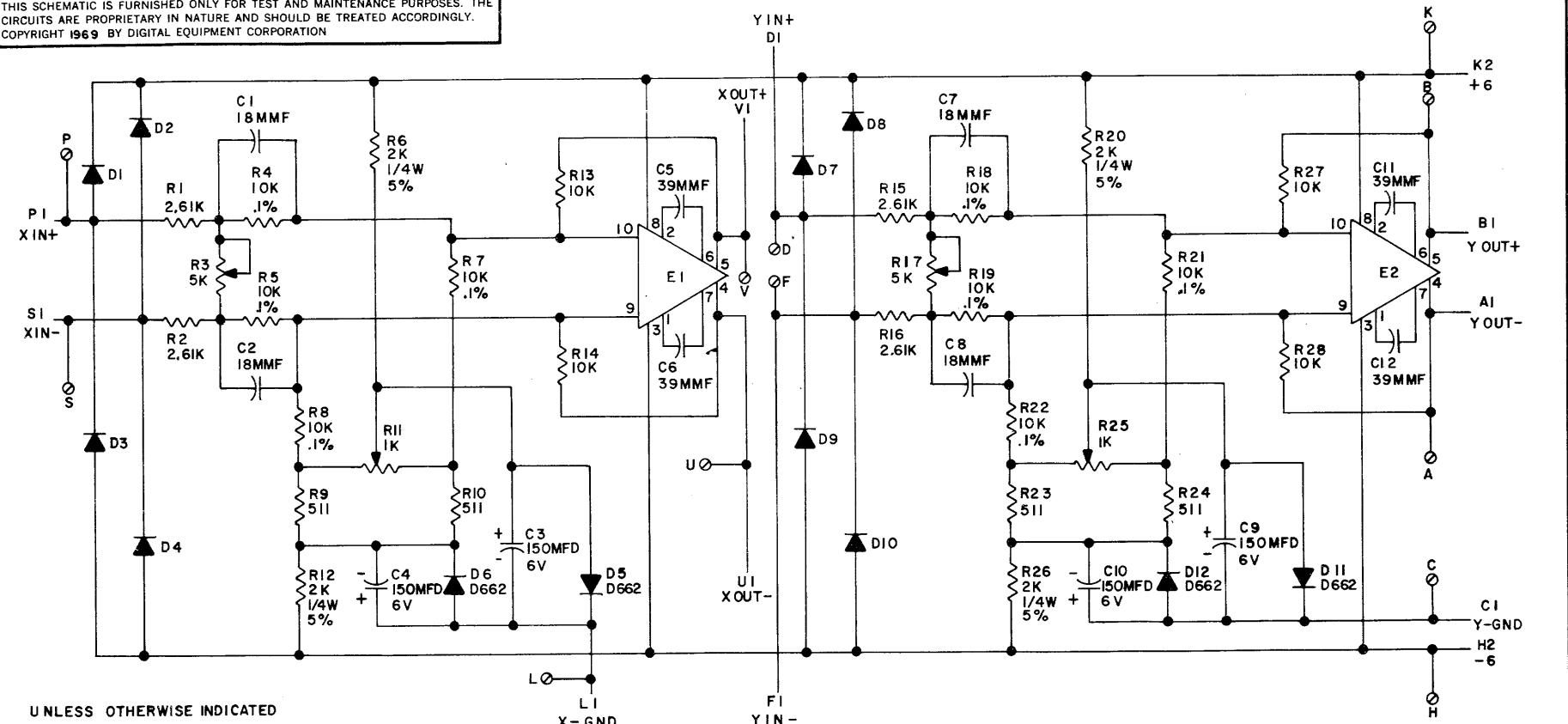
digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

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

PRINTED CIRCUIT REV. A

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SIZE CODE B CS G917-0-1 NUMBER
REV.



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

REVISIONS	
CHK	CHG NO.

DEC FORM NO.
DRB 102

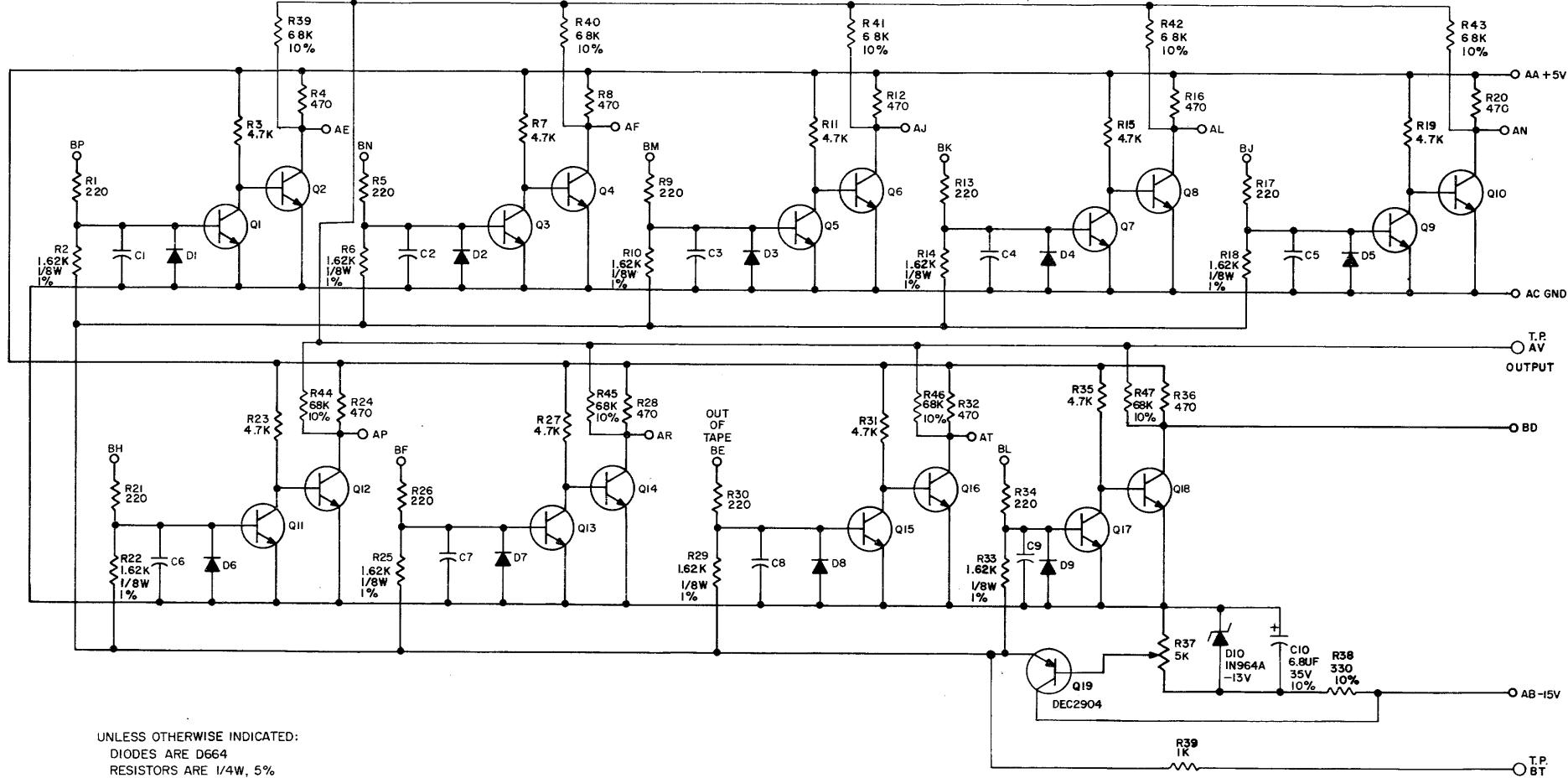
DRN.	DATE
<i>B. Lamm</i>	6-6-68
<i>M. Marshall</i>	6-2-69
/	
PROOF	8-7-69

DEC	EIA	DEC	EIA
D662	IN645		
D664	IN3606		

PROOF

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE XY-CONTROL
G917
SIZE CODE B CS G917-0-1 NUMBER
REV.
PRINTED CIRCUIT REV. A DIST. 324, 434, 435 D-14K



SIZE CODE G918-0-1 NUMBER REV. B

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

DRN	REVISER	DATE
CHK'D	G. Yanga	4/1/69
END	R. A. J.	4/1/69
PROD.		

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

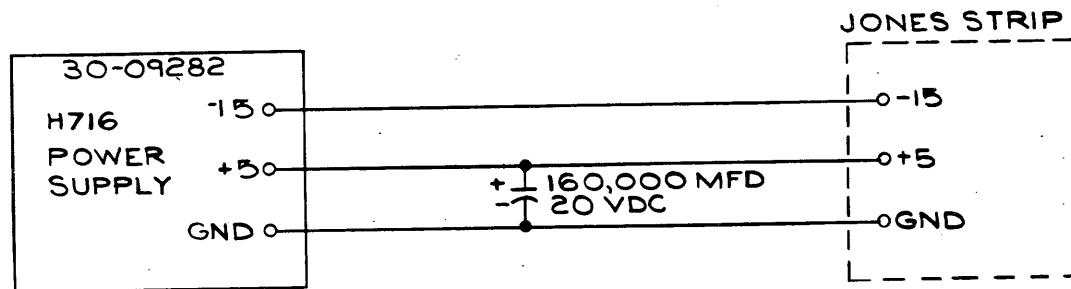
digital
EQUIPMENT CORPORATION
MAYHARD, MASSACHUSETTS

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

↓

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

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REVISIONS	CHG	CHG NO.	REV.

DRN.	J. Ferguson	DATE	4-24-69
CHK'D	Monogrammed	DATE	5-8-9
ENG.		DATE	
PROD.	Monogrammed	DATE	5-6-69

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

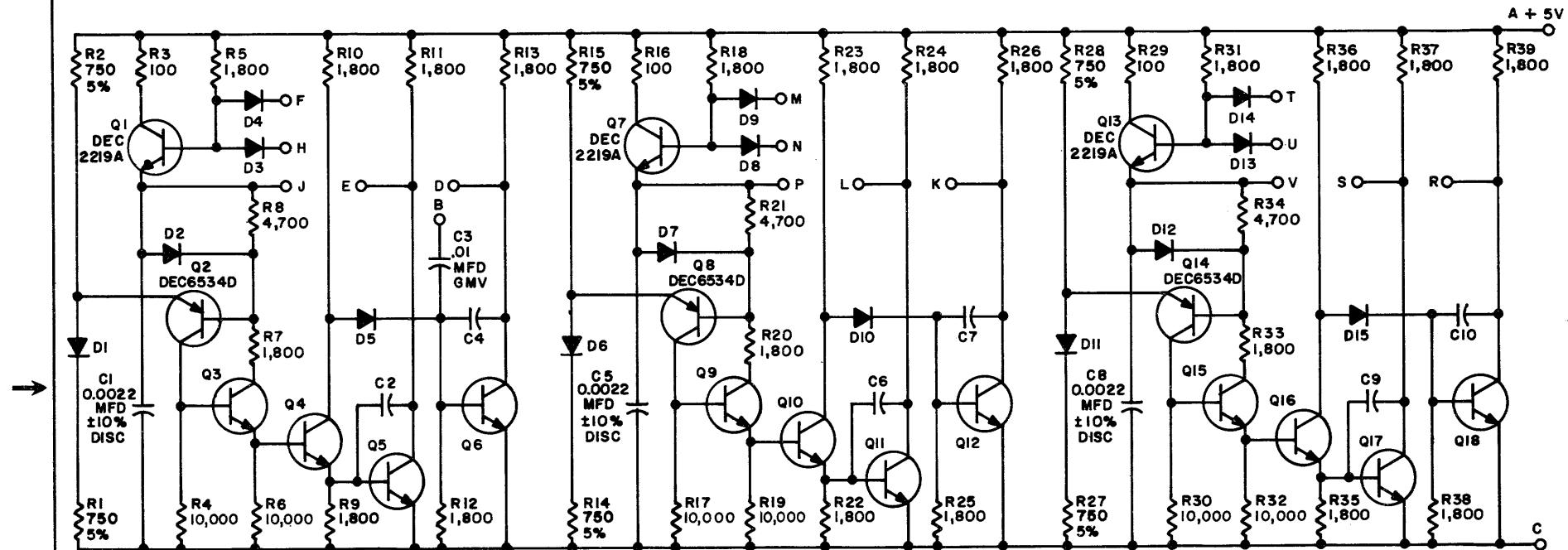
digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
H719 P. S.

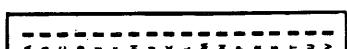
SIZE	CODE	NUMBER	REV.
B	CS	H719-0-1	
PRINTED CIRCUIT REV.			

B CS K303-0-1
SIZE NUMBER REV.

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



VIEWED FROM ETCHEDED SIDE

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

REVISIONS

CHG NO. REV.

437

00001

00001

DRN.	DATE
M. Waller	4-18-67
CHK'D	DATE
R. Deverman	7/20/67
ENG	DATE
R. Deverman	4/27/67
PROD.	DATE
I	

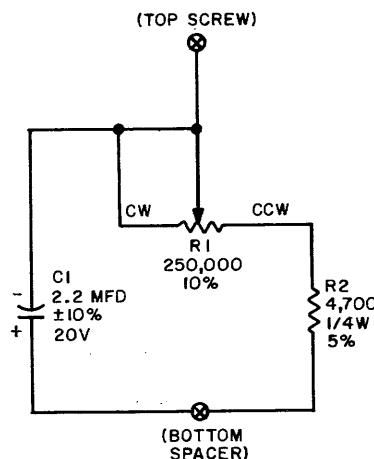
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC1	2N3721		
DEC6534D	MP6534		
D600	IN4009		
DEC2219A	2N2219		

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
THREE TIMERS K303
SIZE CODE NUMBER REV.
B CS K303-0-1 C
PRINTED CIRCUIT REV.
B
DIST: 324, 434, 435³
PINK

SIZE CODE K374-0-1
NUMBER
REV. A

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

REVISIONS	
CHK.	REV.
000001	A
<i>M. Heller</i>	
CHK'D	DATE
<i>P. Doremus</i>	5/5/67
ENG.	DATE
<i>P. Doremus</i>	5/22/67
PROD.	DATE

DRN.	DATE
<i>M. Heller</i>	5-4-67
CHK'D	DATE
<i>P. Doremus</i>	5/5/67
ENG.	DATE
<i>P. Doremus</i>	5/22/67
PROD.	DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE CALIBRATED TIMER
CONTROL K374

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

PRINTED CIRCUIT REV.

A B C

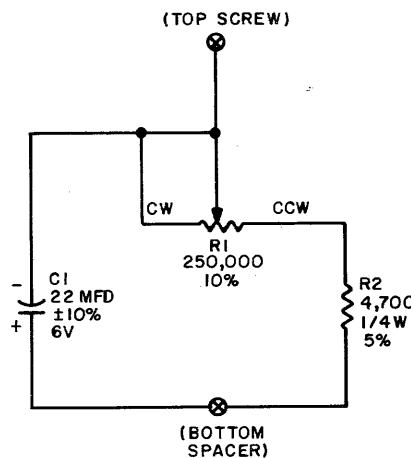
DEC FORM NO.
DRB 102

DIST. 324,434,435 3

5 PINK

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

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

REVISIONS		
CHK	CHG NO.	REV.
Q4	0000	A

DRN: *M.Waller* DATE 5-4-67
CHK'D *Kelvin* DATE 5/5/67
ENG *R. Jones* DATE 5/22/67
PROD. DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

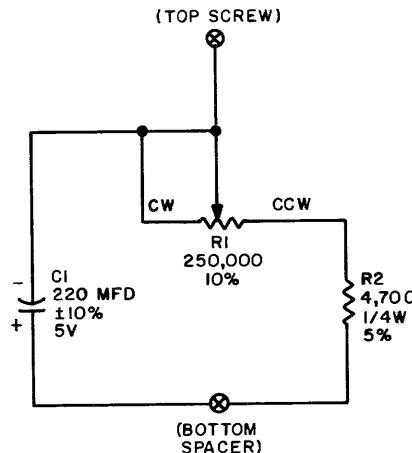
digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE CALIBRATED TIMER
CONTROL K376

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

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

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UNLESS OTHERWISE INDICATED:
RI IS ALLEN-BRADLEY TSRA2541
MODIFIED CLOCKWISE LOG TAPER
CI IS SPRAGUE 130D227X9005FO OR EQUIV.

REVISIONS	
CHK.	CHG. NO.
✓	00001 A

DRN.	DRN.	DATE
m. Waller		5-9-67
CHK'D		DATE
R. Richardson		5/8/67
ENG.		DATE
R. Dore		5/12/67
PROD.		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital

EQUIPMENT
CORPORATION

MAYNARD, MASSACHUSETTS

TITLE CALIBRATED TIMER
CONTROL K378

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

PRINTED CIRCUIT REV. B C

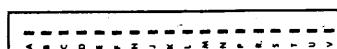
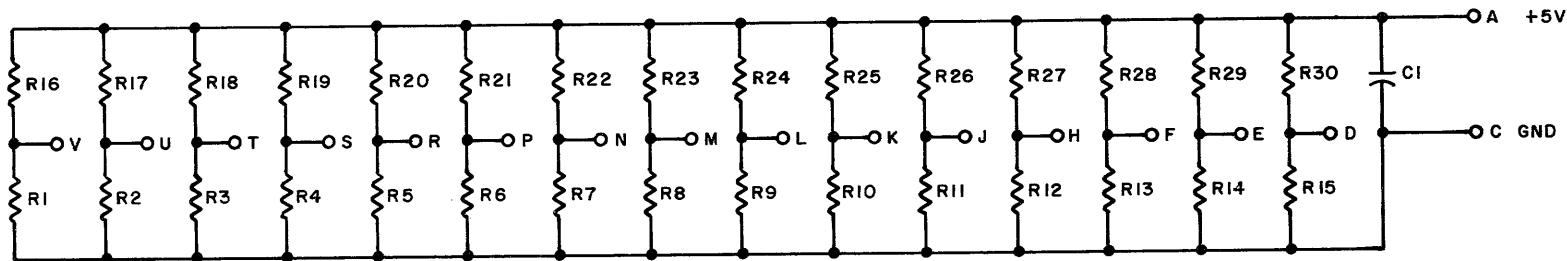
DEC FORM NO.
DRB 102

DIST. 324,434,435 3

5 PINK

B CS M002-0-1
SIZE CODE NUMBER
REV.

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REFERENCE DESIGNATION	DESCRIPTION	PART NO.
R16 - R30	RES. 1.8K 1/4W 10% CC	I301428
RI - R15	RES. 3.3K 1/4W 5% CC	I300439
CI	CAP. .01MF 100V 20% DISC	1001610
PARTS LIST	A-PL-M002-0-0	

REVISIONS	DRN.	DATE
	m. Haller	6-21-68
CHK	CHK'D	6-21-68
CHG	CHG'D	
NO.	NO.	

DRN. *m. Haller* DATE 6-21-68
CHK'D *m. Haller* DATE 6-21-68
ENG. *m. Haller* DATE 7/9/68
PROD. *m. Haller* DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital

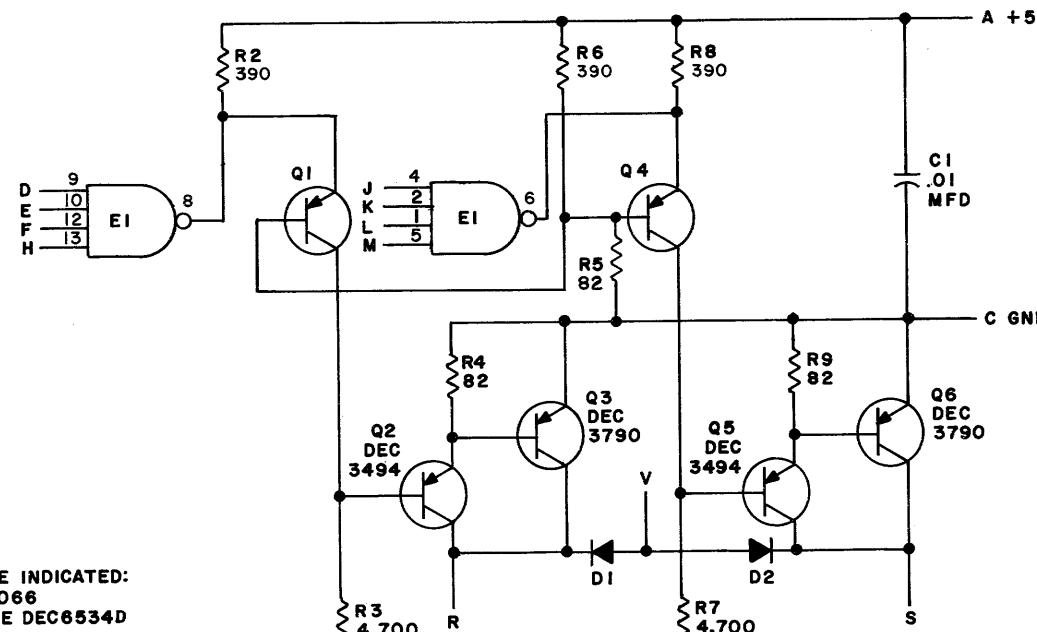
EQUIPMENT
CORPORATION

MAYNARD, MASSACHUSETTS

SIZE	CODE	NUMBER	REV.
B	CS	M002-0-1	
DIST.	PINK	424 434 435	A

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

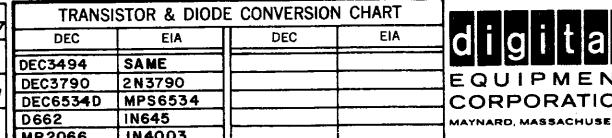


UNLESS OTHERWISE INDICATED:
DIODES ARE MR2066
TRANSISTORS ARE DEC6534D
EI IS DEC7420N
PIN 7 ON IC = GND
PIN 14 ON IC = +5V
RESISTORS ARE 1/4W, 10%

PARTS LIST A-PL-M040-0-0

REVISIONS	DRN.	DATE
CHK CHG NO.	E	REV.
00001	m. Heller	9-14-67
00002		7/22/67

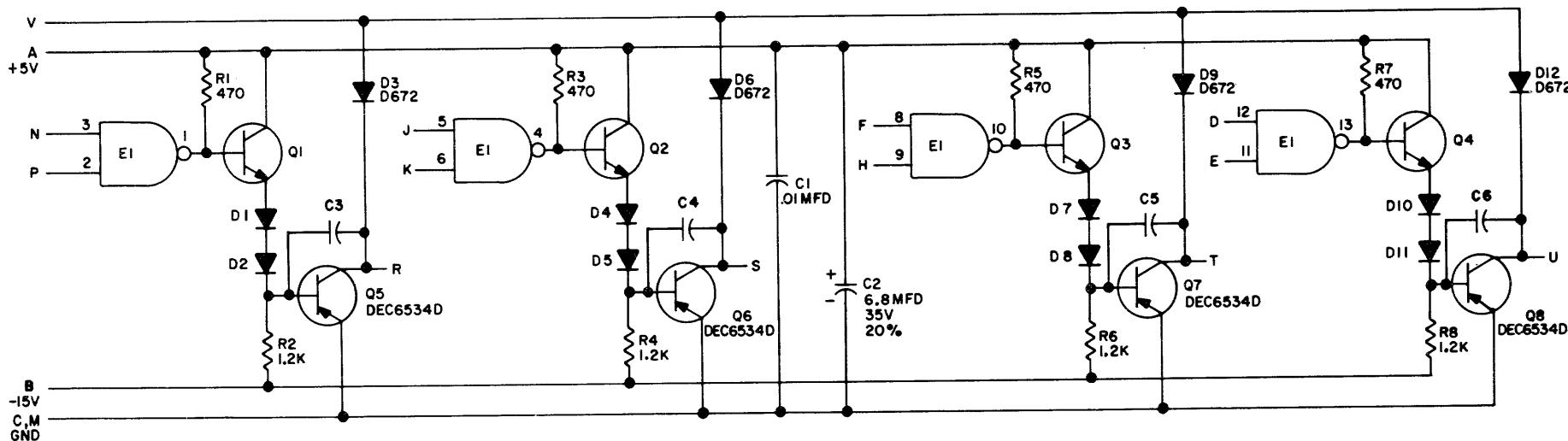
DEC	EIA	DEC	EIA
DEC3494	SAME		
DEC3790	2N3790		
DEC6534D	MPS6534		
D662	IN645		
MR2066	IN4003		



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

REV. B
NUMBER M044-0-1
SIZE CODE 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 CHG NO.	REV.
	100001	B

DRN. Butler	DATE 6/23/68
CMKPD: J. Butler	DATE 6/24/68
ENG: R. Lamb	DATE 7/13/69
PROD.	DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
D664	IN3606		
DEC6534D	MPS6534		
DEC3009B	ZN3009		

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

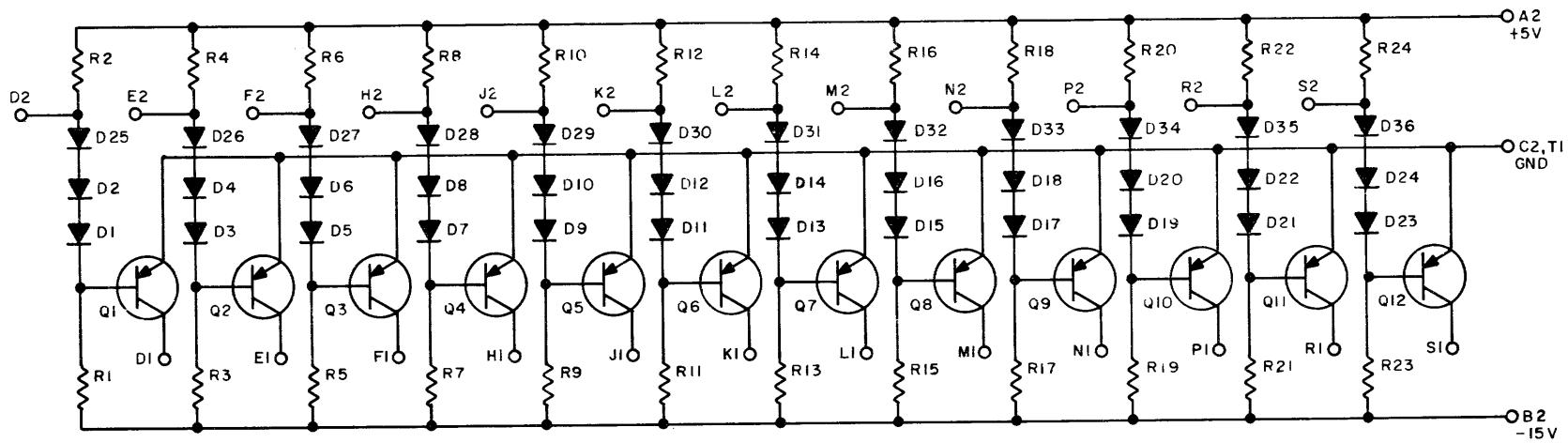
TITLE 4-IOOMA SOLENOID
DRIVER M044

SIZE B
CODE CS
NUMBER M044-0-1
REV. B

PRINTED CIRCUIT REV. B

SIZE CODE B CS M051 - O - I
NUMBER REV

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REFERENCE DESIGNATION	DESCRIPTION	PART NO.
PARTS LIST		
Q1 - Q12	TRANSISTOR DEC3639B	I502762
R20, R22, R24	RES. 1.5K 1/4W 5% CC	I300391
R2, R4, R6, R8, R10, R12, R14, R16, R18		
R21, R23	RES. 15K 1/4W 5% CC	I300496
R1, R3, R5, R7, R9, R11, R13, R15, R17, R19		
D1 - D36	DIODE D664	I100114
PARTS LIST		
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

REVISIONS	CHG NO	REV
M. Miller	10-23-68	
CHK'D	W. Miller	DATE
ENG	4th	10-26-68
PROD	C. J. Thompson	DATE

DRN	DATE
M. Miller	10-23-68
CHK'D	W. Miller
ENG	4th
PROD	C. J. Thompson

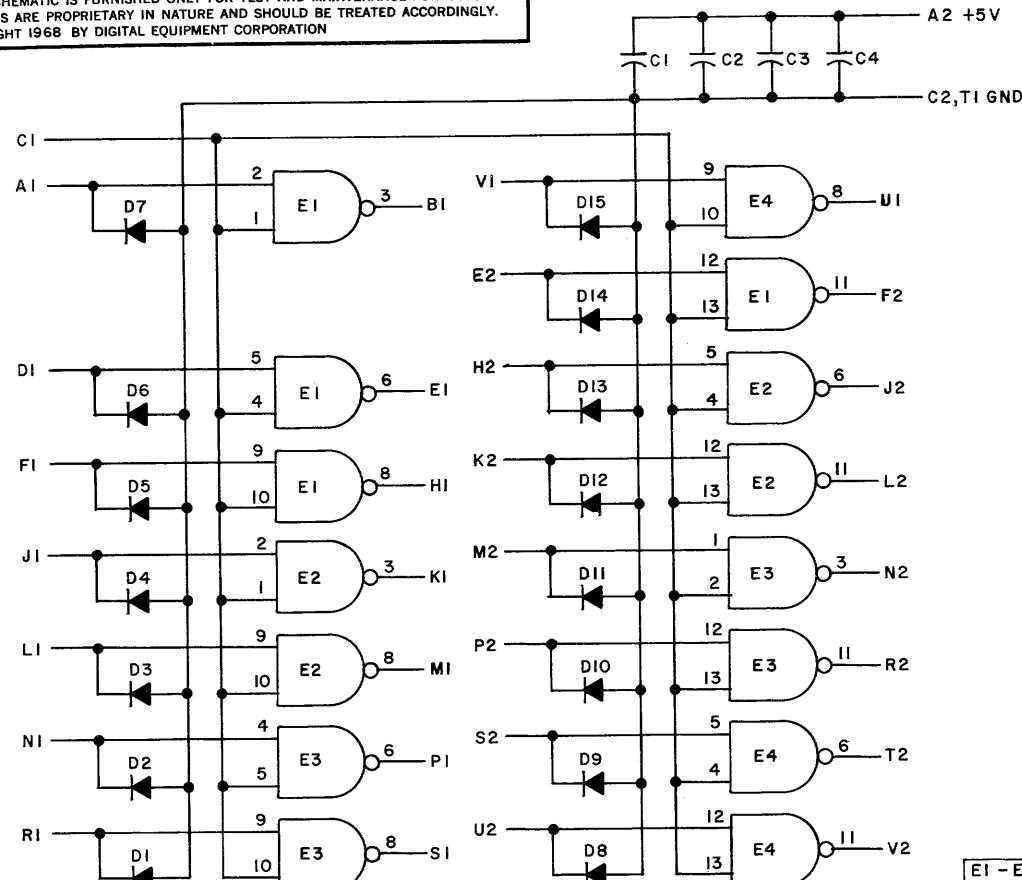
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3639B	2N3639		
D664	IN3606		

digital
EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: LEVEL CONVERTER M051
SIZE CODE B CS NUMBER M051 - O - I
REV
PRINTED CIRCUIT REV A
Dist. 324 434 435 2 PINK

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



REFERENCE DESIGNATION	DESCRIPTION	PART NO.
EI - E4	INTEGRATED CKT. DEC7400N	I905575
DI - D15	DIODE D664	1100114
CI - C4	CAP. .01MF 100V 20% DISC	1001610
	PARTS LIST	A-PL-M101-0-0
	REFERENCE DESIGNATION	
	PARTS LIST	

REVISIONS	REV.
CHK	CFG. NO.
CHK	REV.

DRN. *m. Waller* DATE *8-5-68*
 CHK'D *m. Waller* DATE *8-6-68*
 ENG. *J. H. Waller* DATE *8-4-68*
 PROD. DATE

DEC *D664* EIA *IN3606*

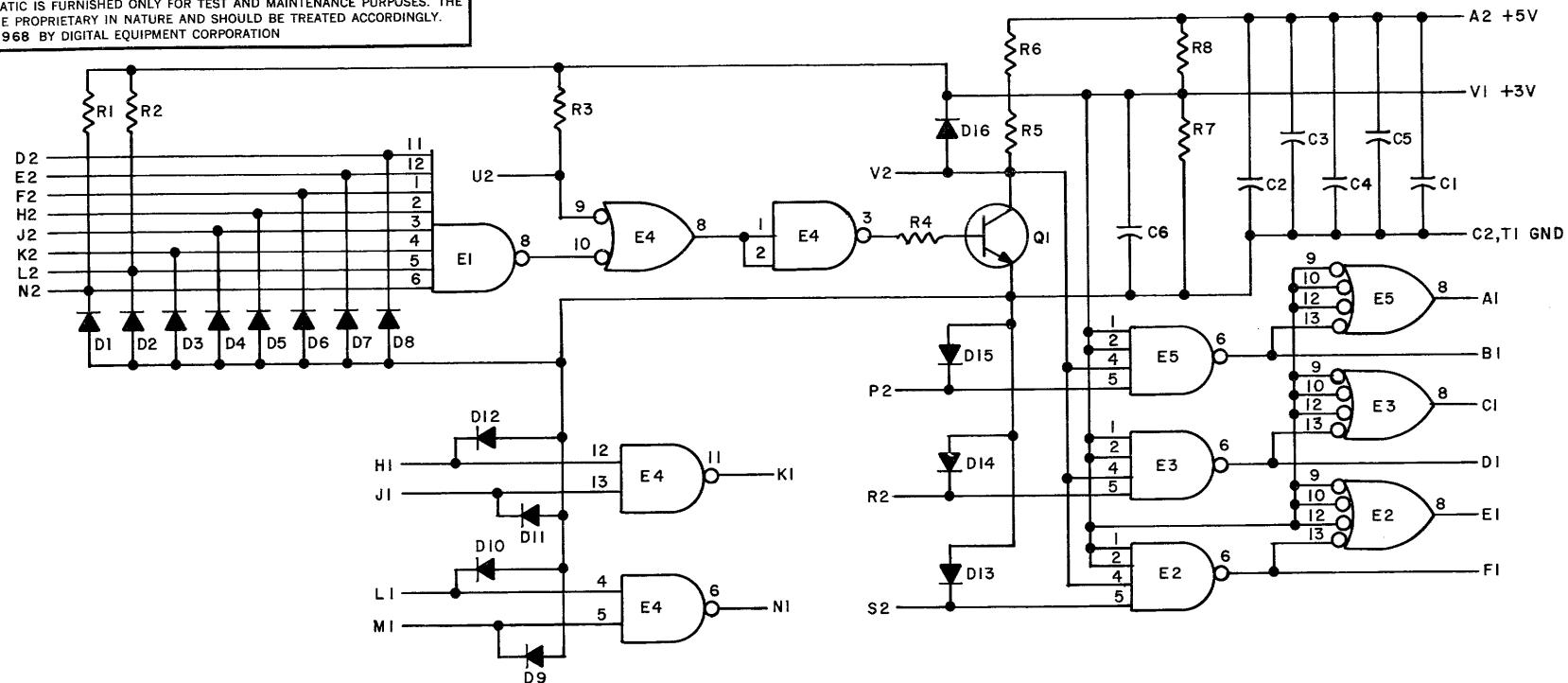
DEC *D664* EIA *IN3606*

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: BUS DATA
INTERFACE M101
SIZE CODE CS M101-0-1
REV.
PRINTED CIRCUIT REV. A
DIST. 324 434 435

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



REFERENCE DESIGNATION	DESCRIPTION	PART NO.
Q1	TRANSISTOR DEC3009B-S	I503100
E4	INTEGRATED CKT. DEC7400N	I905575
E2, E3, E5	INTEGRATED CKT. DEC74H40N	I905586
E1	INTEGRATED CKT. DEC7430N	I905578
R8	RES. 330 1/4W 5% CC	I300295
R4-R7	RES. 750 1/4W 5% CC	I301401
R1, R2, R3	RES. 8.2K 1/4W 5% CC	I303179
D1-D16	DIODE D664	I100114
C1-C6	CAP. .01MF 100V 20% DISC	I001610
PARTS LIST	PARTS LIST	A-PL-M103-0-0

REVISIONS	CHK'D	CHG NO.	REV
		00001	A

DRN.	DATE
m. meller	10-4-68
CHK'D	DATE
(11/11/68)	3/1/69
ENG.	DATE
K. Laughlin/NP	11/1/68
PROD.	DATE

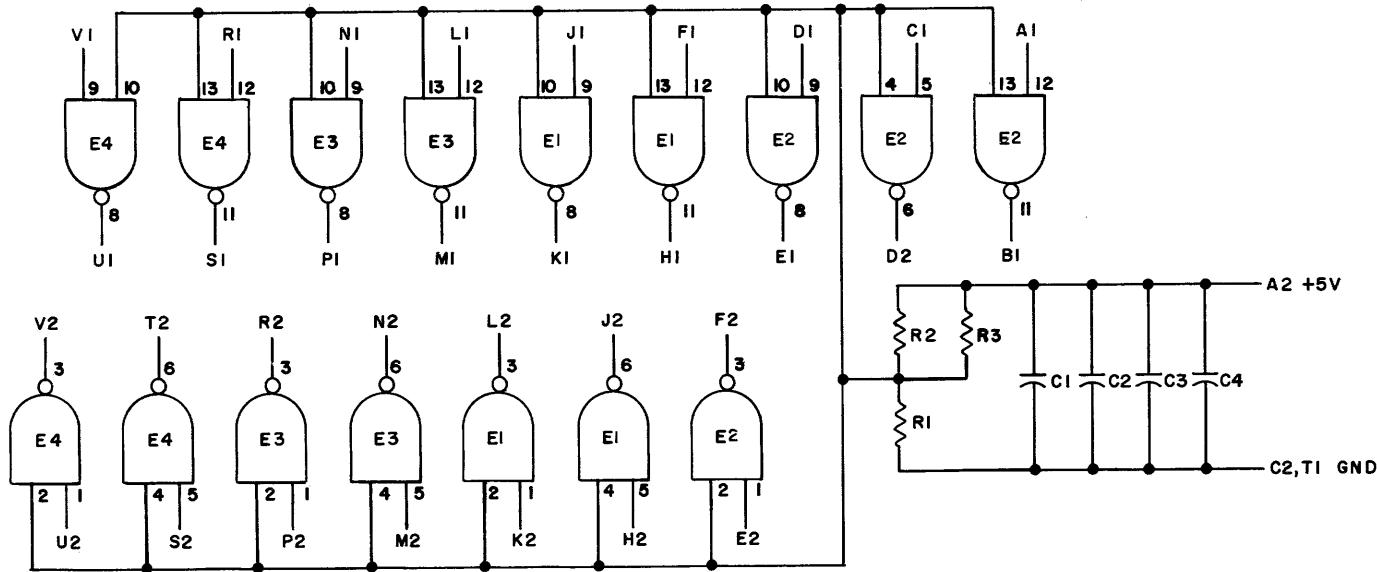
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3009B	2N3009		
D664	IN3606		

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
DEVICE SELECTOR M103
SIZE CODE M103-0-1
B CS NUMBER
REV A
PRINTED CIRCUIT REV. B
DISA 324 117 432 PINK

REV. A MIII-O-1 NUMBER CS SIZE B

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NOTES:

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

E1-E4	INTEGRATED CKT. DEC7400N	I905575
RI-R3	RES. 750 1/4W 5% CC	I301401
CI-C4	CAP. .01MF 100V 20% DISC	I001610
PARTS LIST		A-PL-MIII-O-0
REFERENCE DESIGNATION		PART NO.
PARTS LIST		

DRN. <i>M. Miller</i>	DATE 5-21-68
CHK'D <i>M. Miller</i>	DATE 6/1/68
ENG. <i>J. Egan</i>	DATE 7/5/68
PROD. <i>J. Egan</i>	DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
INVERTER MIII

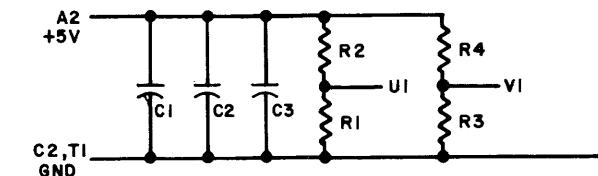
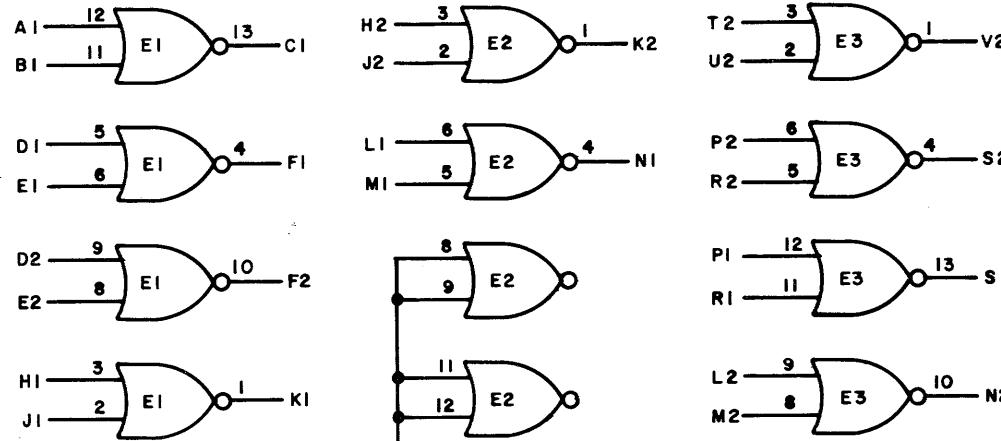
SIZE B CS NUMBER REV. A
MIII-O-1

PRINTED CIRCUIT REV. C

REVISIONS	CHG NO.	REV.
	00001	A

SIZE CODE CS MII2-0-1
REV. D

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

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
PARTS LIST		
C1,C2,C3	CAP. .01MF D 100V 20% DISC	I001610
E1,E2,E3	INTEGRATED CKT. DECT402N	I909004
R2,R4	RES. 330 1/4W 5% CC	I300295
R1,R3	RES. 750 1/4W 5% CC	I301401
PARTS LIST		

REVISIONS	REV.	A	B	C	D
CHK CHG NO.					
W.M. 00001					
W.M. 00002					
W.M. 00003					
W.M. 00004					
W.M. 00005					

DRN. <i>M.Weller</i>	DATE 2-20-68
CHK'D <i>J.Kremers</i>	DATE 2/20/68
ENG. <i>G.Purcell</i>	DATE 3/7/68
PROD.	DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

NOR GATE MII2

SIZE	CODE	CS	NUMBER	REV.
B			MII2-0-1	D

PRINTED CIRCUIT REV. D

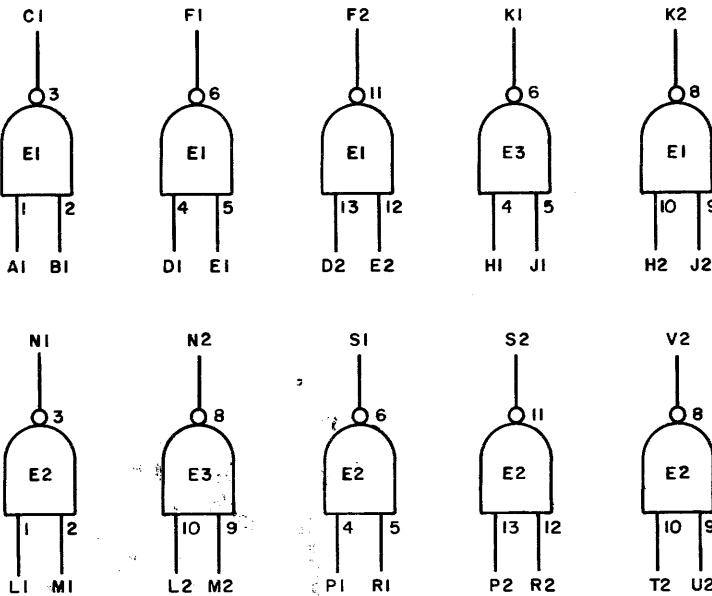
SIZE CODE CS MI13-0-1 NUMBER
REV C

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+5V ————— A2

NOT USED -15V ————— B2

GND ————— C2, TI



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

E1 THRU E3	INTEGRATED CKT. DEC7400N	I905575
R1 AND R3	RES. 750 1/4W 5% CC	I301401
R2 AND R4	RES. 330 1/4W 10% CC	I300293
C1 AND C2	CAP. .01MF 100V 20% DISC	I001610
REFERENCE DESIGNATION	PARTS LIST	A-PL-MI13-0-0
	PARTS LIST	

REVISIONS	REV	A	B	C
CHK CHG NO				
6425	A			
6801	B			
00000-1	C			

DRN.	DATE
m.Waller	3-15-67
CHK'D	4-14-67
ENG	DATE
Z. White	4-21-67
PROD.	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital
EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

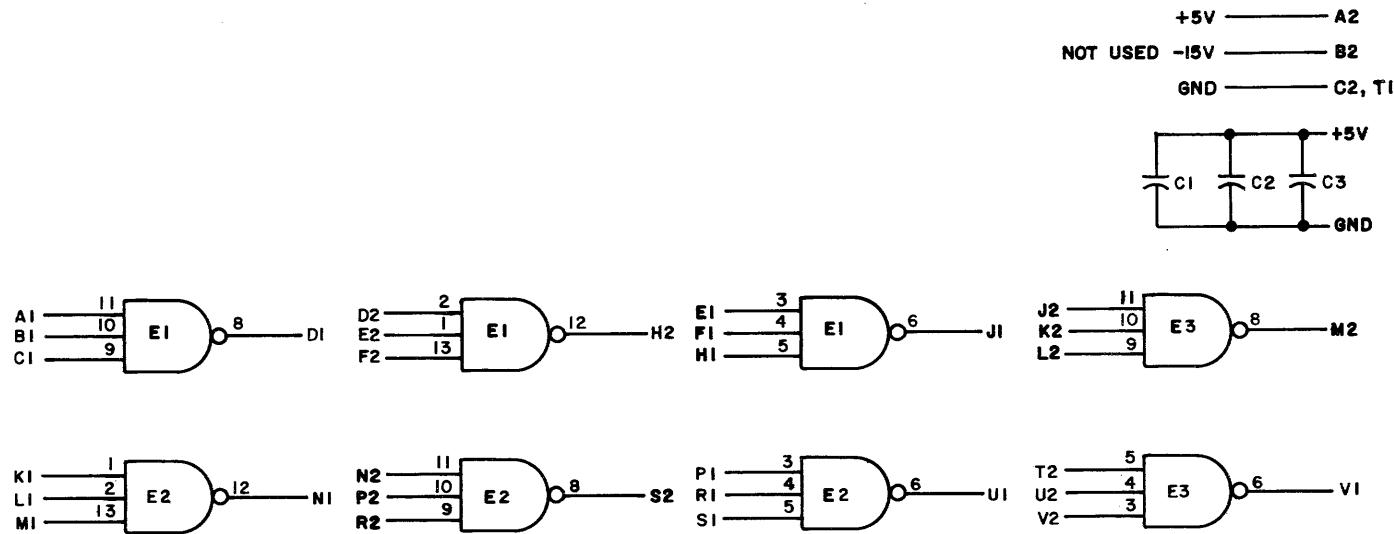
TITLE
IO-2 INPUT
NAND GATES MI13

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

PRINTED CIRCUIT REV D

B CS MII5-0-1
SIZE CODE NUMBER REV C

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

EI THRU E3	INTEGRATED CKT. DEC7410N	I905576
CI THRU C3	CAP. .01MF D 100V 20%DISC	I001610
	PARTS LIST	A-PL-MII5-0-0
REFERENCE DESIGNATION	DESCRIPTION	
	PART NO.	
PARTS LIST		

REVISIONS	REV	B	C
CHK			
CHG NO.			
4-20-67			
6800			
000001			
NM			
5423			

DRN.
m. Waller
DATE
4-20-67
CHK'D
M. Waller
DATE
4-21-67
ENG
Z. White
DATE
4-21-67
PROD.

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

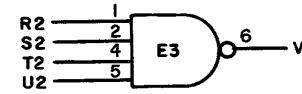
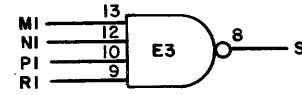
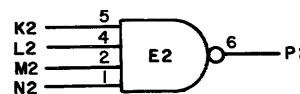
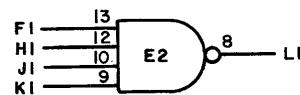
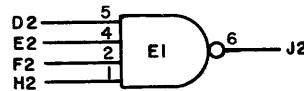
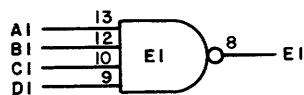
digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
8-3 INPUT
NAND GATES MII5
SIZE CODE NUMBER REV.
B CS MII5-0-1 C

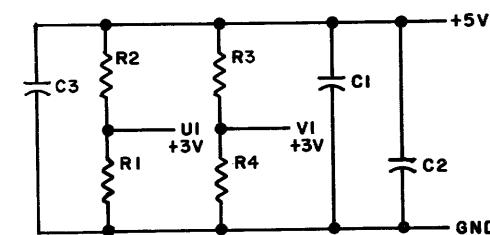
PRINTED CIRCUIT REV. D

SIZE CODE MII7-0-1
NUMBER E REV.

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



NOTES:

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

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
PARTS LIST		
E1 THRU E3	INTEGRATED CKT. DEC7420N	I905577
R1 & R4	RES. 750 1/4W 5% CC	I301401
R2 & R3	RES. 330 1/4W 10% CC	I300293
C1 THRU C3	CAP. .01MF 100V 20% DISC	I001610
UI	PARTS LIST	A-PL-MI17-0-1
VI	DESCRIPTION	
	PART NO.	

REVISIONS	
CHK	CHG NO
642	A
679	B
0001	C
0002	E

DEC FORM NO.
DRB 102

DRN.
m.Weller
DATE
3-15-67

CHK'D
M.Weller
DATE
4-21-67

ENG
Z.White
DATE
4-21-67

PROD.
DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

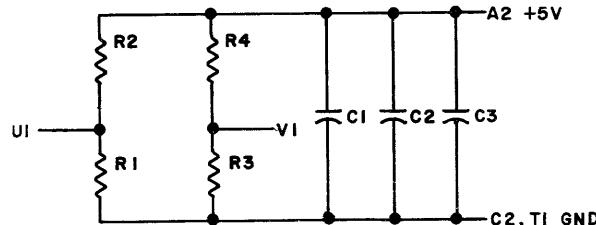
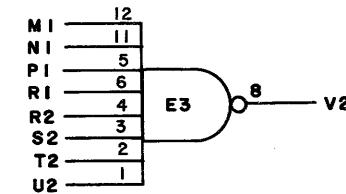
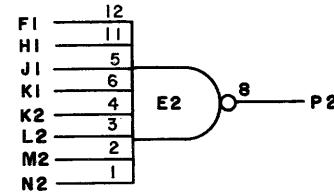
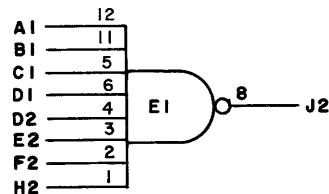
TITLE
6-4 INPUT
NAND GATES MI17
SIZE CODE NUMBER REV.
B CS MII7-0-1 E
PRINTED CIRCUIT REV.
E
DIST. 324 434 43.. 3

PIN 1

5

B CS MII9-0-1
SIZE CODE NUMBER REV.

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

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
PARTS LIST		
E1 THRU E3	INTEGRATED CKT. DEC7430N	I905578
R2 & R4	RES. 330 1/4W 10% CC	I300293
R1 & R3	RES. 750 1/4W 5% CC	I301401
CI THRU C3	CAP. .01MF 100V 20% DISC	I001610
PARTS LIST		A-PL-MII9-0-0
REFERENCE DESIGNATION		

REVISIONS	DRN. <i>m. Waller</i>	DATE <i>8-1-67</i>
CHK CHG NO.	DATE <i>R. Schreiner</i>	DATE <i>8/4/67</i>
PROD.	DATE <i>John Rickett</i>	DATE <i>9/1/67</i>
REV. A B C D E F	REV. A B C D E F	REV. A B C D E F

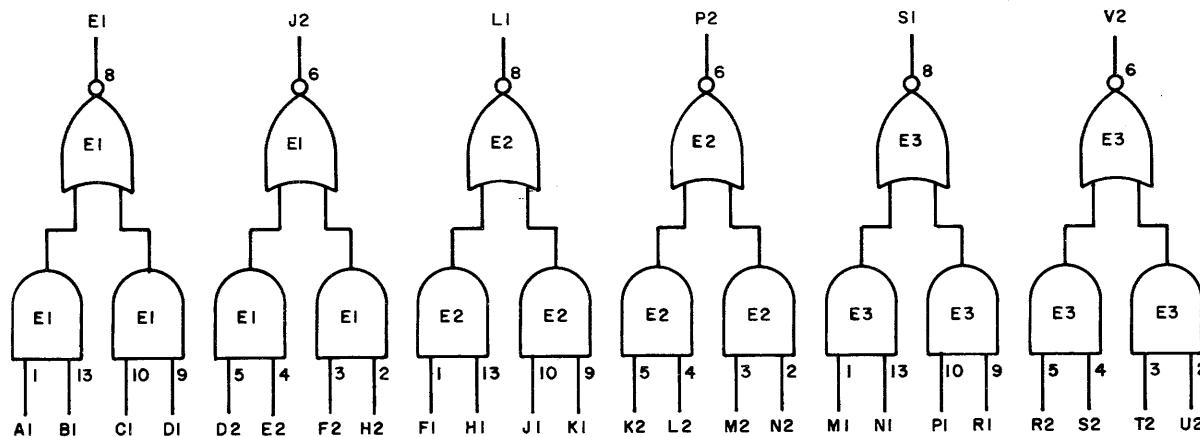
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

3-8 INPUT NAND-GATES
MII9
SIZE CODE NUMBER REV.
B CS MII9-0-1 B
PRINTED CIRCUIT REV. C
DIST. 324 434 435 (5)

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

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NOTES:

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

E1 THRU E3	INTEGRATED CKT. DEC7450N	I905580
R2 & R4	RES. 330 1/4W 10% CC	I300293
R1 & R3	RES. 750 1/4W 5% CC	I301401
C1 THRU C5	CAP. .01 MFD 100V 20% DISC	I001610
PARTS LIST		A-PL-M121-0-0
REFERENCE DESIGNATION		DESCRIPTION
		PART NO.
PARTS LIST		

REVISIONS	REV	CHG NO	REV	CHG NO	REV

DRN.
m. Waller
DATE
4-21-67
CHK'D
J. W. Weller
DATE
4-21-67
ENG.
L. White
DATE
4-21-67
PROD.
DATE

TRANSISTOR & DIODE CONVERSION CHART

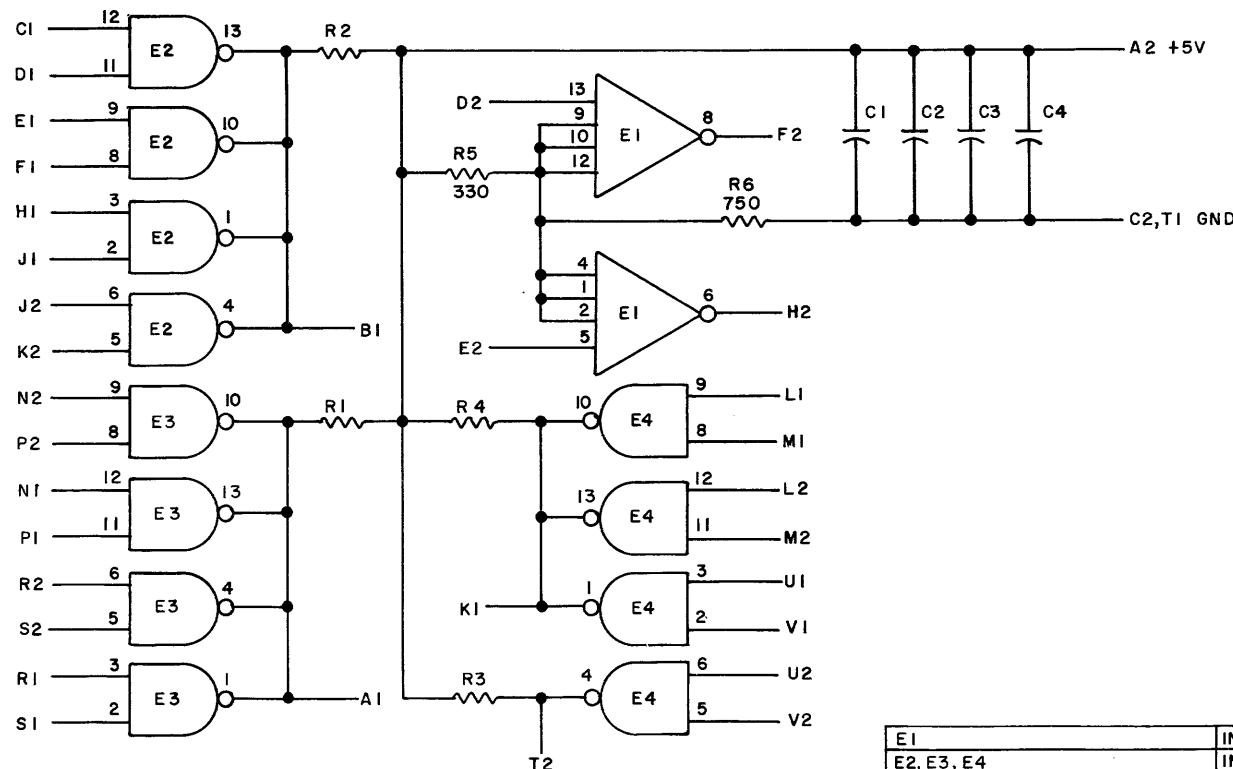
DEC	EIA	DEC	EIA

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

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

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B CS M141-0-1
SIZE CODE NUMBER REV. B



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

E1	INTEGRATED CKT. DEC7420N	I905577
E2, E3, E4	INTEGRATED CKT. DEC7401N	I905590
R6	RES. 750 1/4W 5% CC	I301401
R5	RES. 330 1/4W 10% CC	I300293
RI THRU R4	RES. 1.5K 1/4W 5% CC	I300391
CI THRU C4	CAP. .01MF 100V 20% DISC	I001610
PARTS LIST		A-PL-M141-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

PARTS LIST

REVISIONS	CHG/ING NO	REV
6803	A	B
00001		

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

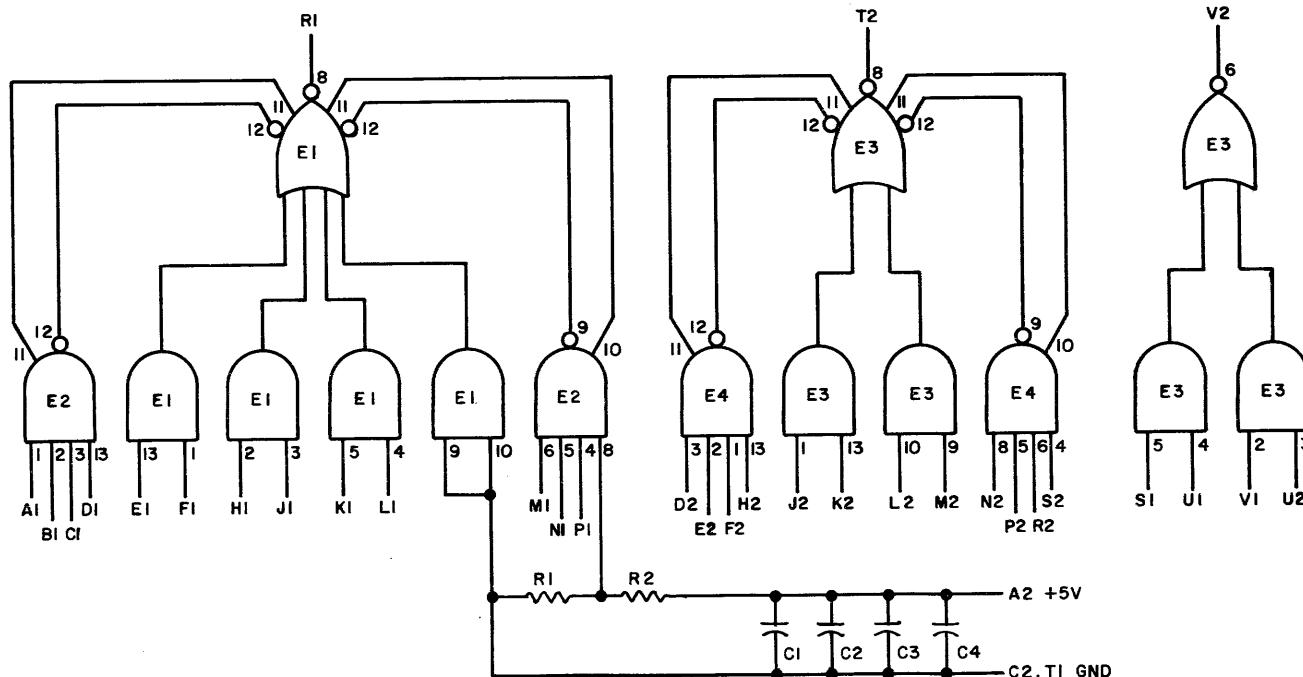
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
AND/NOR GATES M141
SIZE CODE NUMBER REV.
B CS M141-0-1 B
PRINTED CIRCUIT REV. C

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



NOTES

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

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
PARTS LIST		
E3	INTEGRATED CKT. DEC7450N	I905580
E1	INTEGRATED CKT. DEC7453N	I905582
E2 & E4	INTEGRATED CKT. DEC7460N	I905581
R2	RES. 4.7K 1/4W 10% CC	I300448
RI	RES. 6.8K 1/4W 10% CC	I300463
CI THRU C4	CAP, .01MF 100V 20% DISC	I001610
PARTS LIST		

REVISIONS	REV.	B
CHK'D	A	
PROD.	B	
DATE	6/8/67	
DATE	6/5/67	
DATE	6/5/67	
DATE	6/5/67	

DRN.	DATE
m. Waller	6/2/67
CHK'D	6/5/67
PROD.	6/5/67

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA



TITLE: GATE MODULE MI60

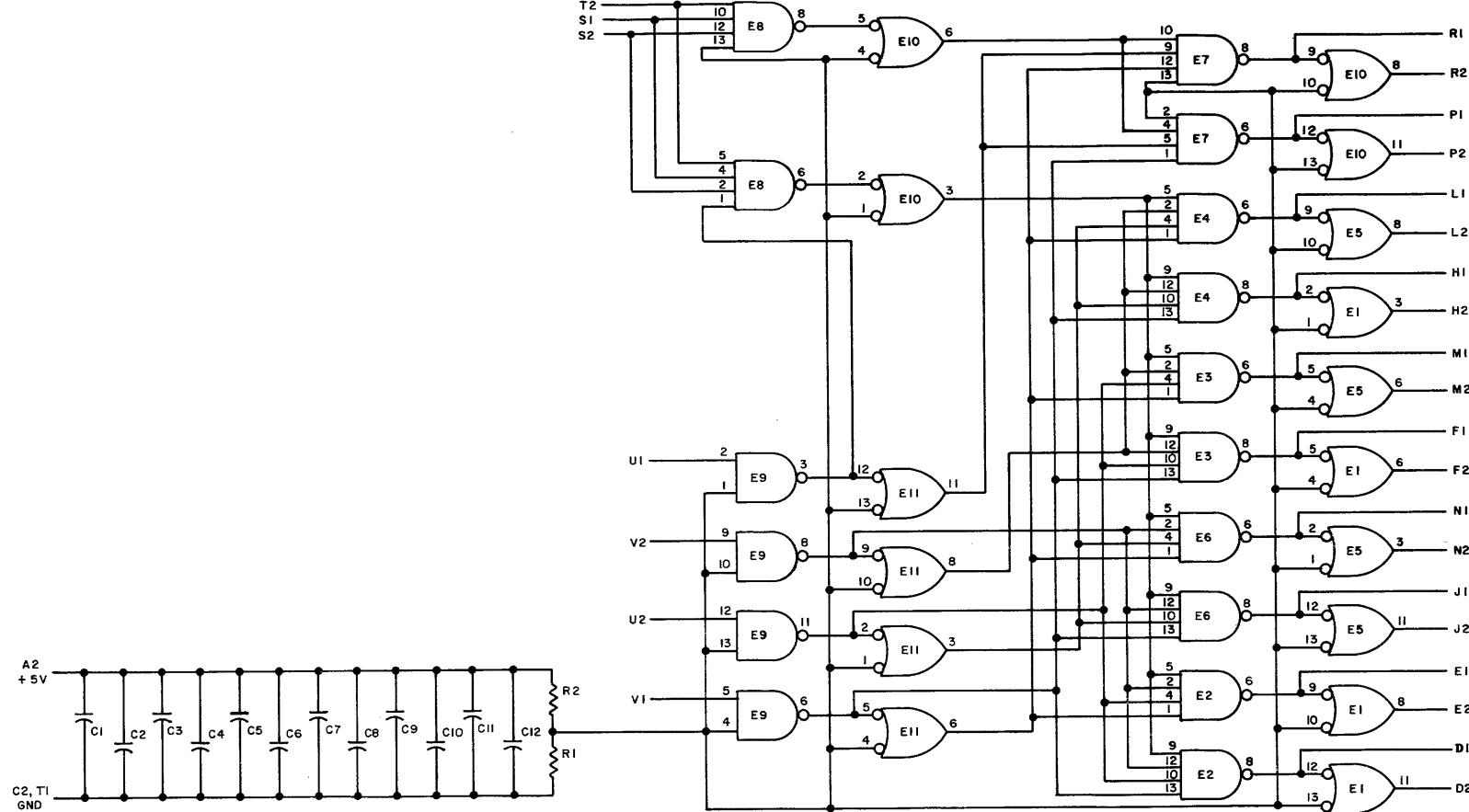
SIZE	CODE	CS	NUMBER	REV.
B			MI60-0-1	B

PRINTED CIRCUIT REV. D

DIST. 324 434 435

PINK

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

E1, E5, E9, E10, E11	INTEGRATED CKT. DECT7400N	I905575
E2, E3, E4, E6, E7, E8	INTEGRATED CKT. DECT7420N	I905577
R2	RES. 330 1/4W 10% CC	I300293
R1	RES. 750 V4W 5% CC	I301401
C1 THRU C12	CAP. .01MF6 100V 20% DISC	I001610
REFERENCE DESIGNATION	PARTS LIST	A-PL-M161-0-0
	DESCRIPTION	PART NO.
	PARTS LIST	

TITLE: BINARY TO OCTAL/DECIMAL DECODER M161

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

PRINTED CIRCUIT REV. C

REVISIONS	
CHK CHG NO	A
DATE	5/12/67
CHK'D	
DATE	5/17/67
ENG	J.P. Hallen
DATE	5/17/67
PROD.	
DATE	

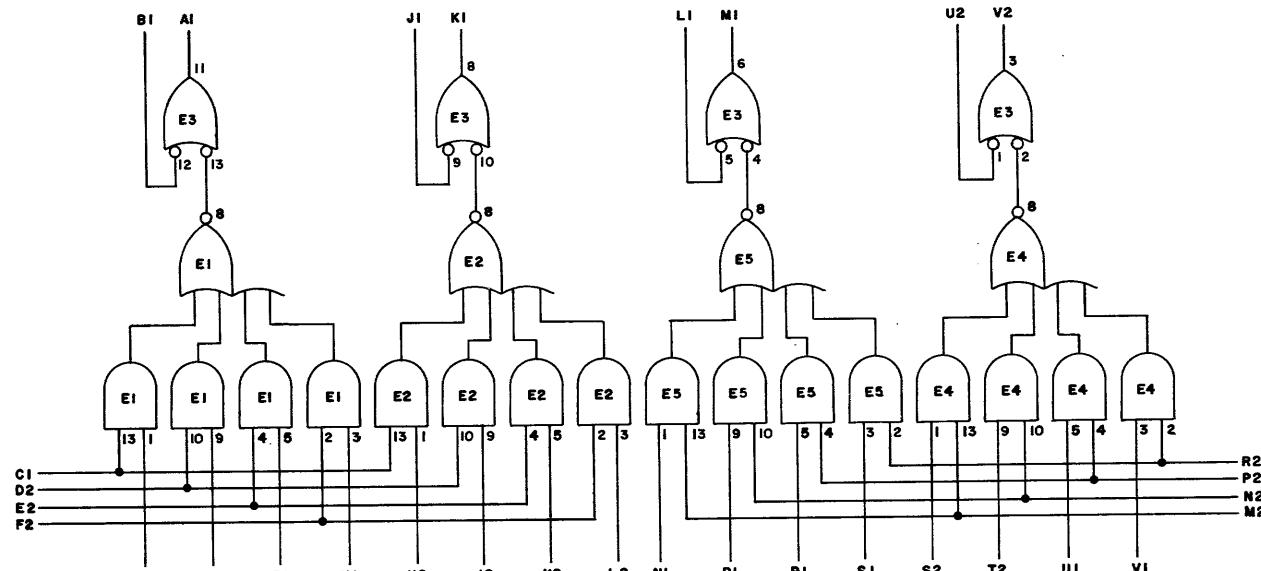
DRN	DATE
m. Hallen	5/12/67
CHK'D	
DATE	5/17/67
ENG	J.P. Hallen
DATE	5/17/67
PROD.	
DATE	

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

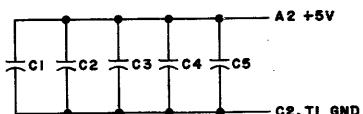


SIZE	CODE	NUMBER	REV.
C	CS	M161-0-1	B

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



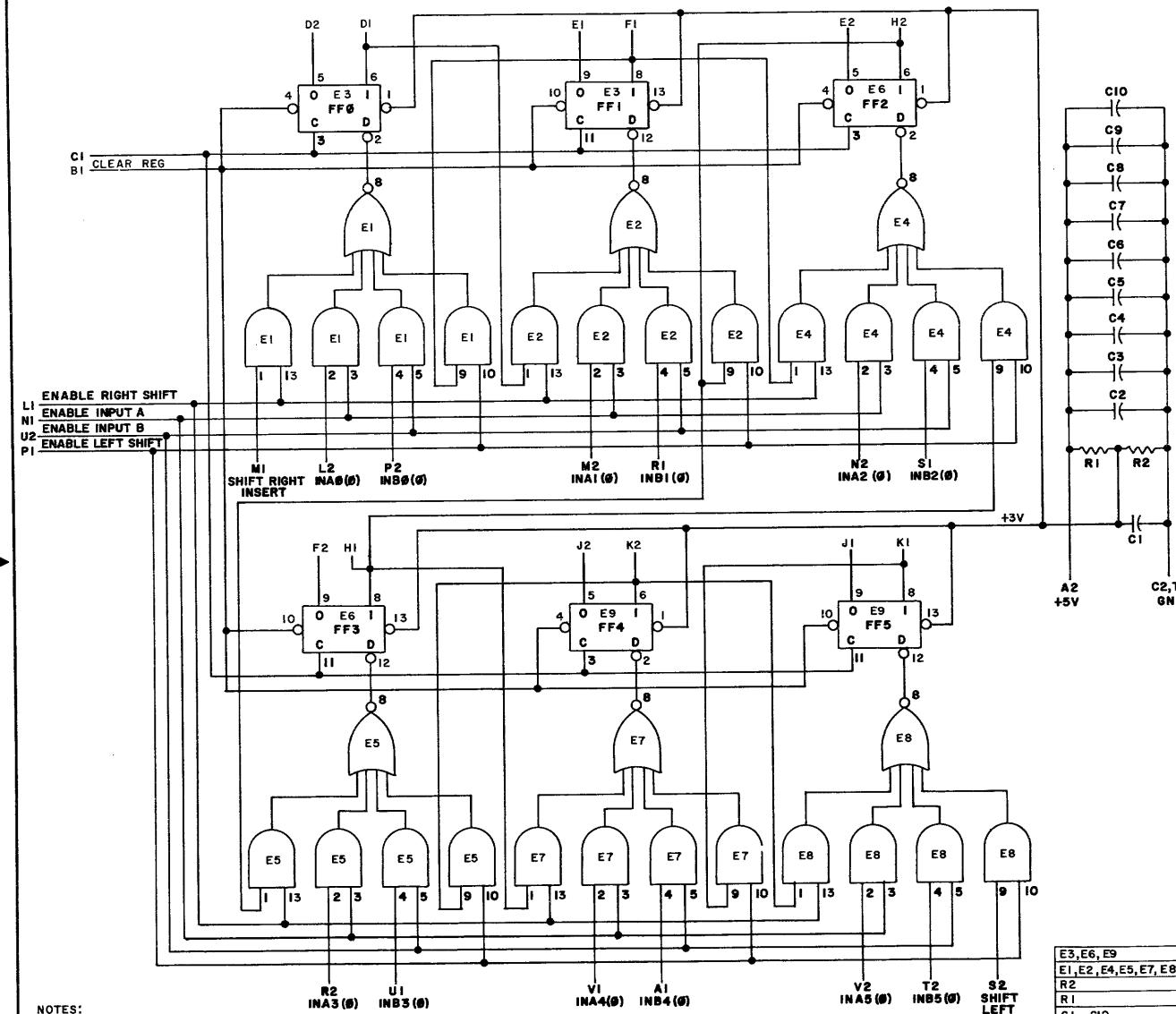
DRN. <i>M. Waller</i>	DATE 11-8-67	TRANSISTOR & DIODE CONVERSION CHART	E3	INTEGRATED CKT. DEC7400N	1905575				
CHK'D <i>A. del ron</i>	DATE 11/17/67	DEC	EIA	INTEGRATED CKT. DEC7453N	1905582				
ENG. <i>R. Leibniz Jr.</i>	DATE 11-7-67	DEC	EIA	CAP. .01MF 100V 20% DISC	1001610				
PROD. I	DATE	PARTS LIST							
		A-PL-MI69-0-0							
		DESCRIPTION							
		PART NO.							
PARTS LIST									
TITLE GATING MODULE MI69									
SIZE C	CODE CS	NUMBER MI69-0-1	REV. A						
PRINTED CIRCUIT REV. B									

REVISIONS	CHG. NO.	REV.

DEC FORM NO. 102
DRC 102

SIZE CODE: MI69-0-1 NUMBER: MI69-0-1 REV: C CS

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E3, E6, E9	INTEGRATED CKT. DECT7474N	I905547
E1, E2, E4, E5, E7, E8	INTEGRATED CKT. DECT7453N	I905582
R2	RES. 3K 1/4W 5% CC	I300432
R1	RES. 1.5K 1/4W 5% CC	I300391
C1 - C10	CAP. .01MF 100V 20% DISC	I001610
PARTS LIST	A-PL-M212-0-O	
REFERENCE DESIGNATION	DESCRIPTION	PART NO.
PARTS LIST		

SITE CODE C CS M212-0-1 REV. B

REVISIONS	REV
CHK	CHG NO
DRC	102

DEC FORM NO.
DRC 102

DRN.
CHKD.
ENG.
PROD.

DATE
11-19-67
11-26-67
R. J. Clough
2

DATE
11-19-67
11-26-67
R. J. Clough
2

TRANSISTOR & DIODE CONVERSION CHART

DEC EIA

DEC EIA

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE 6 BIT L-R SHIFT
REGISTER M212

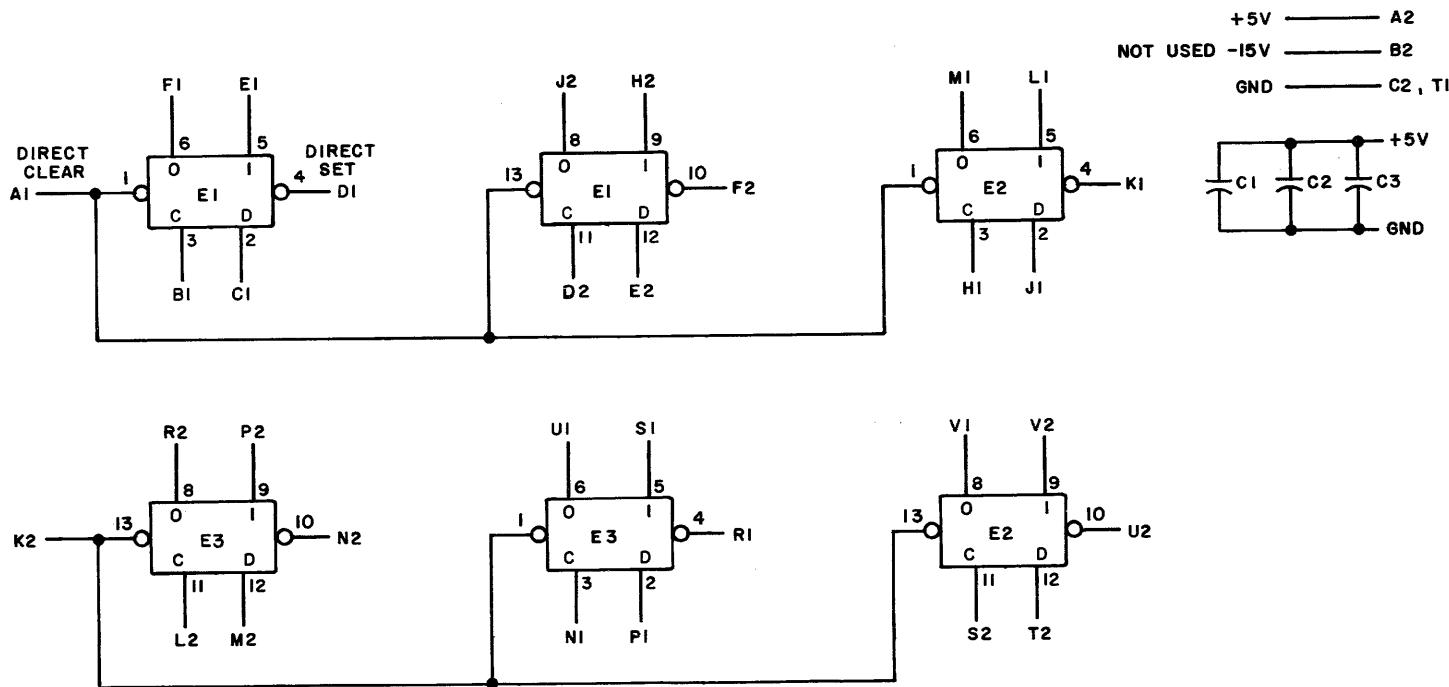
SIZE CODE NUMBER
C CS M212-0-1 REV.
B

PINK

DIST. 324 434 435²

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SIZE CODE M216-0-1
REV. B



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

E1 THRU E3	INTEGRATED CKT. DEC7474N	I905547
CI THRU C3	CAP. .01MF 100V 20% DISC	I001610
	PARTS LIST	A-PL-M216-O-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.
	PARTS LIST	

REVISIONS	CHG NO.	REV.
	6806	A
	000001	B

DRN. *m. Waller* DATE *4-15-67*
CHK'D. *M. Waller* DATE *4-15-67*
ENG'D. *J. Dodge* DATE *4-18-67*
PROD. *J. Dodge* DATE

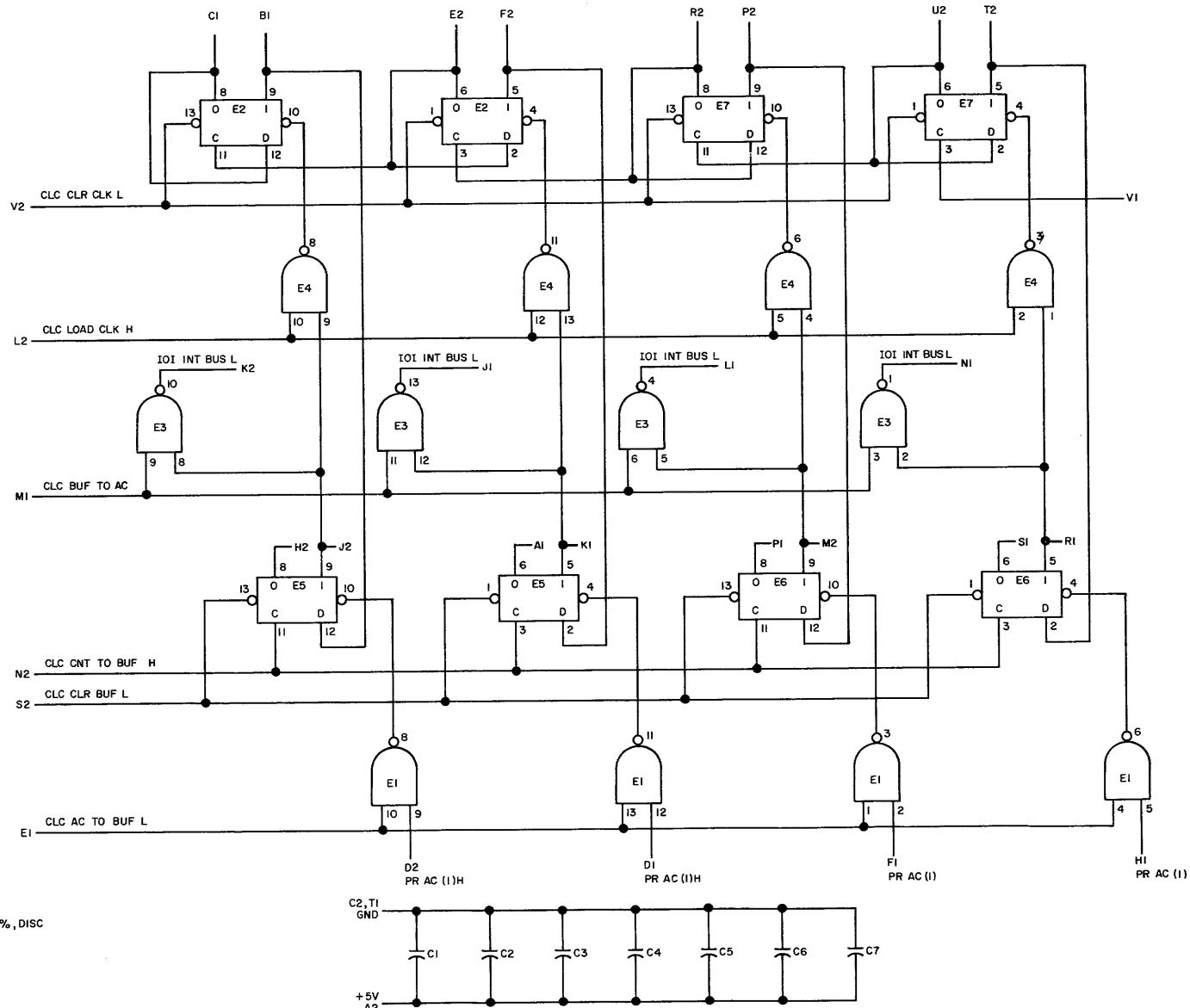
TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
SIX FLIP-FLOPS M216
SIZE CODE M216-0-1
REV. B
PRINTED CIRCUIT REV. C
DIST. 324 434 435 51

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REVISIONS
CHK
CGN
NO REV.

DEC FORM NO.
DRC 102

DRN. R. BUTLER DATE 4/15/69
CHKD J. B. Gallette DATE 4/16/69
ENG R. J. Schreyer DATE 4/13/69
PROD R. Schreyer DATE 4/15/69

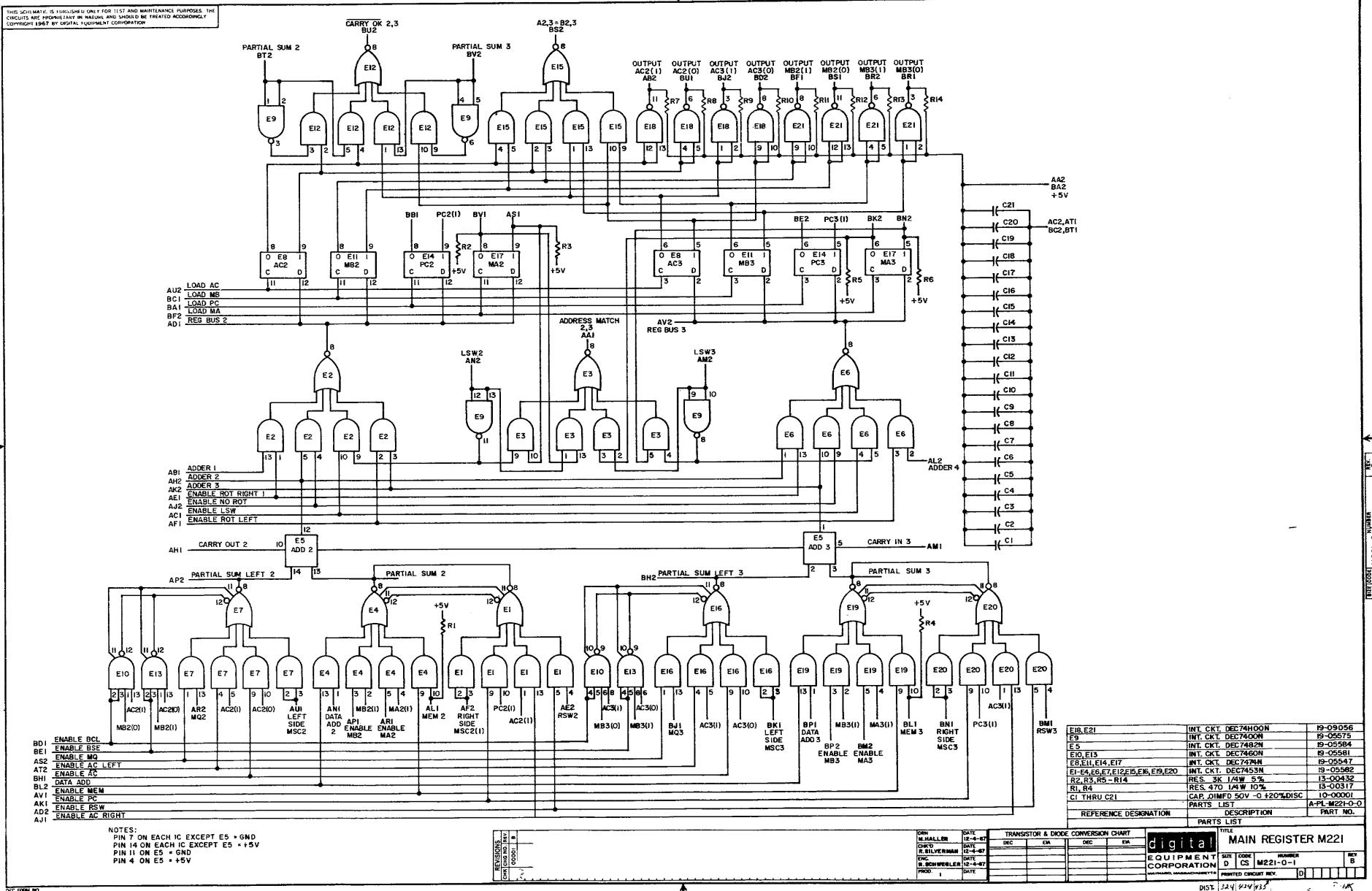
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

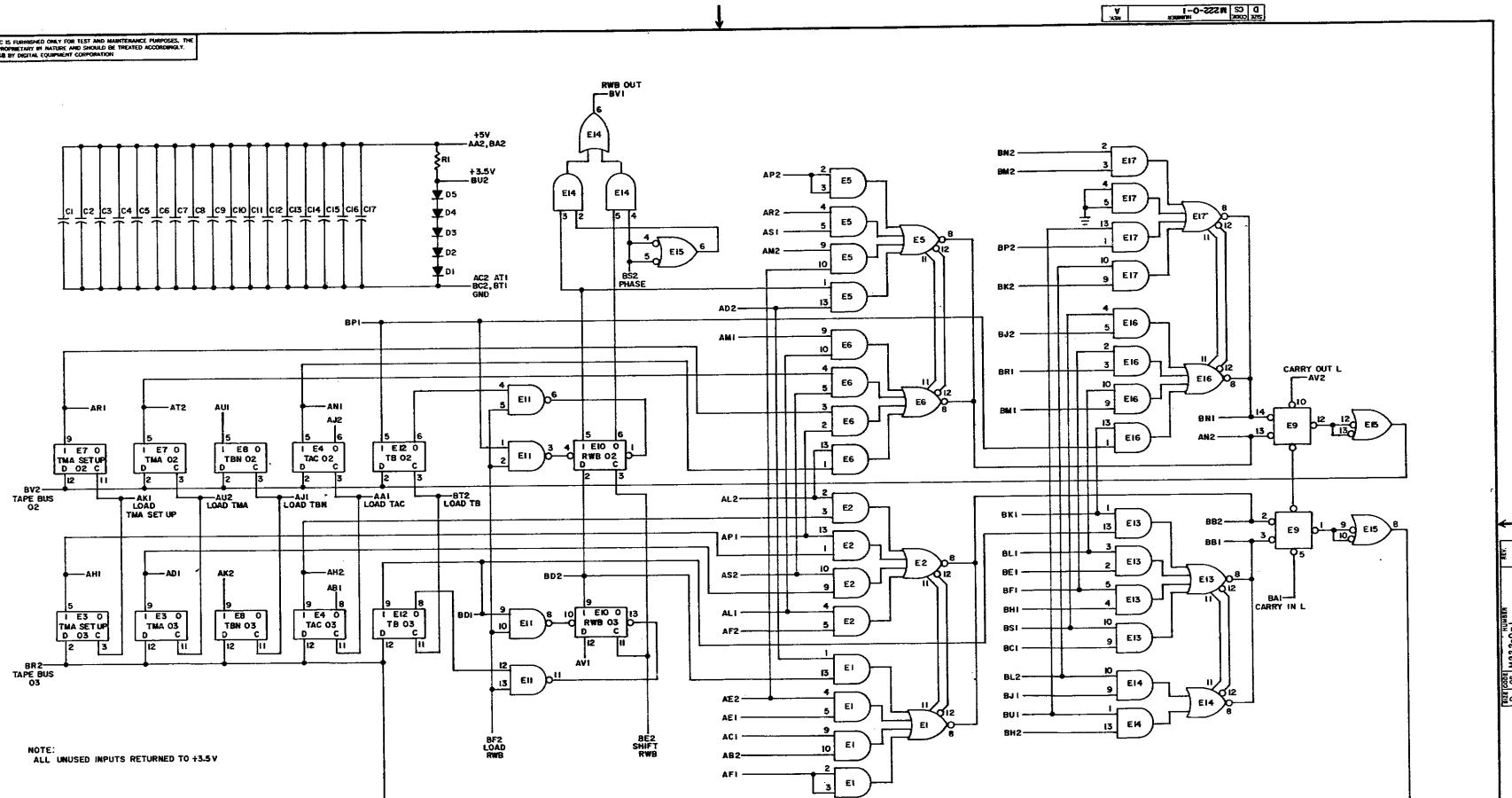
TITLE
CLOCK REGISTER M217
SIZE C CODE CS NUMBER M217-0-1
PRINTED CIRCUIT REV. A
REV.
DIST. 324143414353 P/NK

SIZE CODE
C CS M217-0-1
NUMBER
REV.

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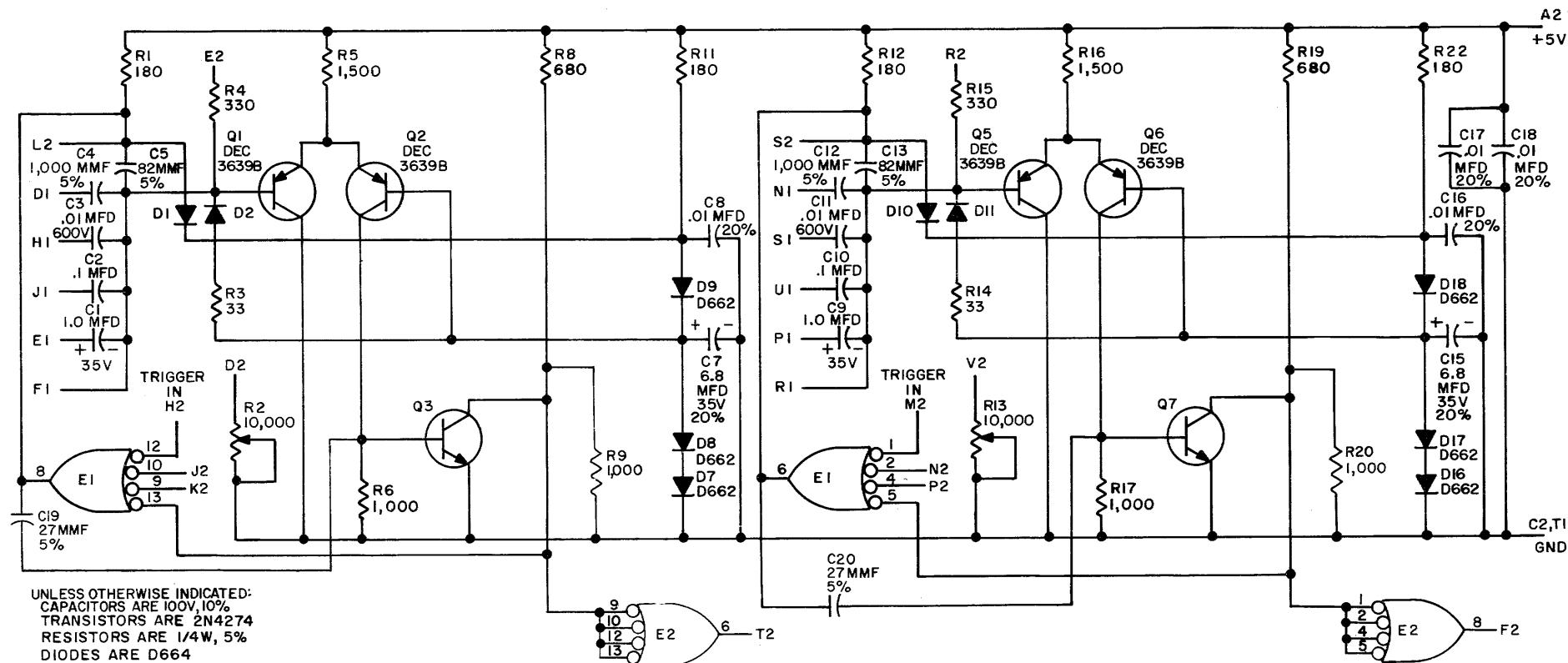
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REFERENCE DESIGNATION	PARTS LIST	DESCRIPTION	PART NO.
DI-05	DIODE D662	110013	
E14, E5, E6, E15, E16, E17	INTEGRATED CKT. DECT7400N	1905480	
E11, E13	INTEGRATED CKT. DECT7454N	1905482	
E11, E15	INTEGRATED CKT. DECT7400N	1905475	
E9	INTEGRATED CKT. DECT7482N	1905584	
E3, E4, E7, E8, E10, E12	INTEGRATED CKT. DECT7474N	1905477	
E1	INTEGRATED CKT. DECT7400N	1905471	
E1 - C17	CAP. 0.1UF 100V 20% DISC	1001610	
PARTS LIST		REF. DESIGNATION	A-PL-M222-O-0
DESCRIPTION		DESCRIPTION	
PART NO.		ITEM	



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UNLESS OTHERWISE INDICATED:
CAPACITORS ARE 100V, 10%
TRANSISTORS ARE 2N4274
RESISTORS ARE 1/4W, 5%
DIODES ARE D662
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
1.0MF CAPACITORS ARE TANTALUM
E2 IS DEC7413N

PARTS LIST A-PL-M302-0-0

DRN.	DATE
m. Waller	6-5-67
CHK'D	6/5/67
ENG.	6/21/67
PROD.	1

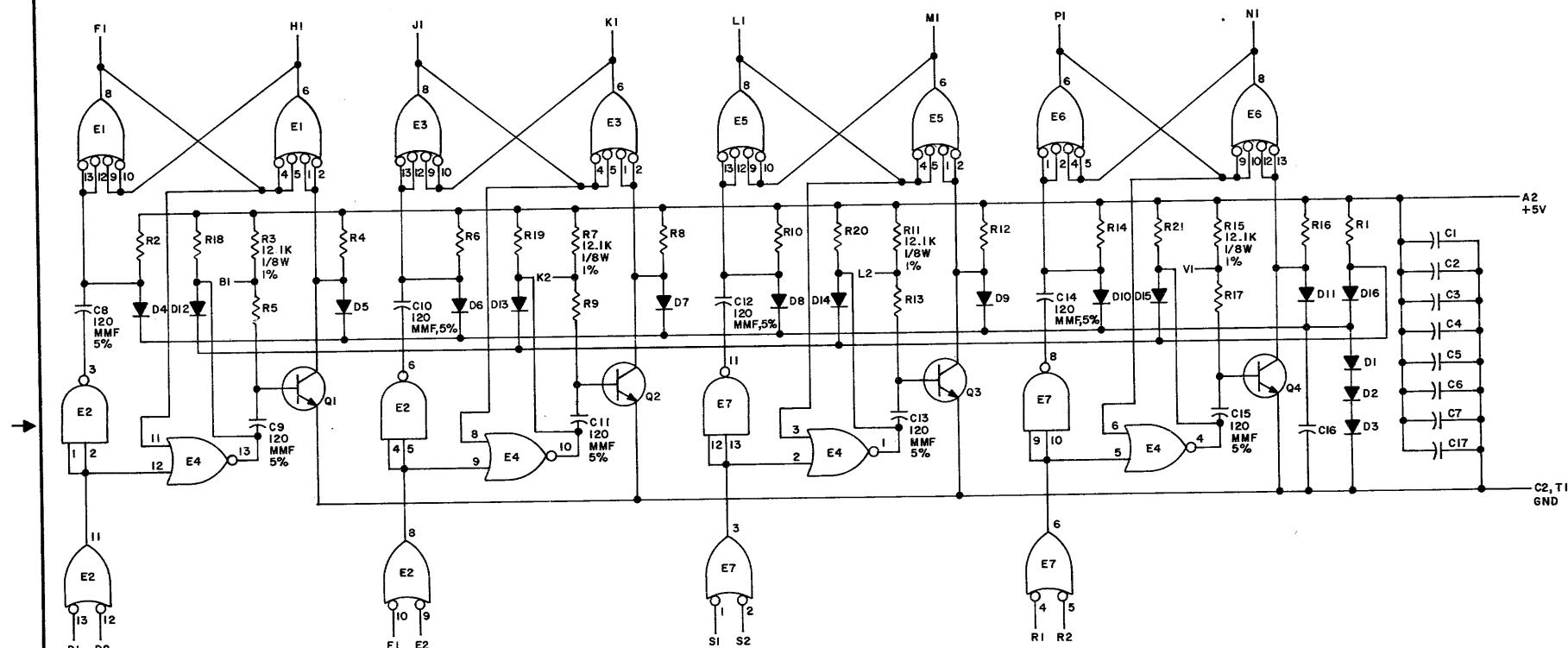
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
2N4274	SAME		
DEC3639B	2N3639		
D662	IN645		
D664	IN3606		

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

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

REVISIONS	CHK	CHG NO	REV	B	C	D	E	F	I	J	K	
		6507			6719							
						6981						
							67077					
								000001				
								000002				
									000003			

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SIZE CODE C CS M304-0 - NUMBER

REV. A

REVISIONS	
CHK	CHG NO.
Z-2	00001

DEC FORM NO. 102

DRN. *M. Waller* DATE *4-22-69*
 CHK'D *M. Mousham* DATE *4-23-69*
 ENG. *R. L. Choung* DATE *4-20-69*
 PROD. DATE

DEC	EIA	DEC	EIA
D664	IN3606		
DEC3009B	2N3009		

TRANSISTOR & DIODE CONVERSION CHART

digital
 EQUIPMENT
 CORPORATION
 MAYNARD, MASSACHUSETTS

TITLE ONE SHOT DELAY M304
 SIZE C CODE CS M304-0 - NUMBER
 REV. A

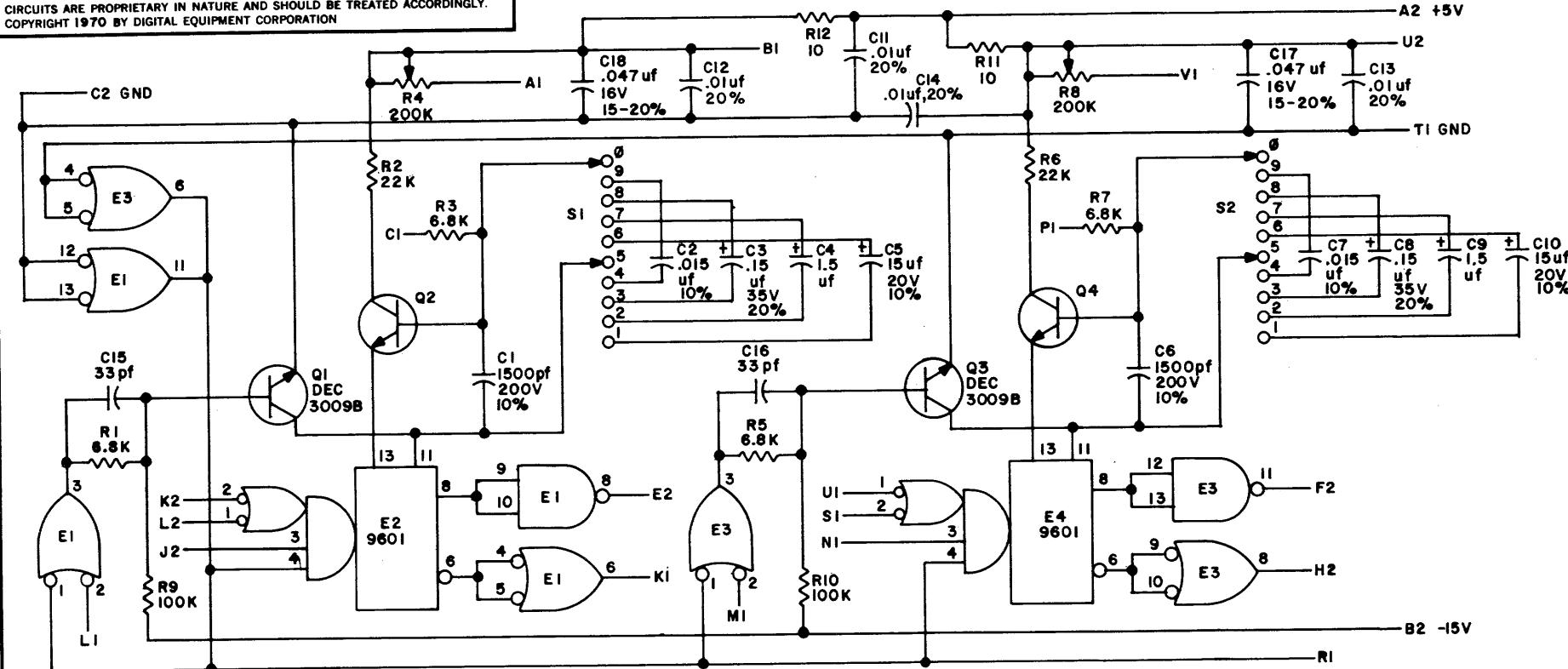
PRINTED CIRCUIT REV. B

DIST. 124, 934, 415

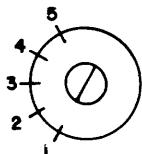
P/N K

SIZE CODE M307-0-1
REV. B

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



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

REVISIONS	
CHK CHG NO.	REV.
MH 00001	A
REV. B	REDR.
CD 00002	B

DRN. M. HALLER	DATE 9-3-69
CHK'D A.YAUGA	DATE 9-3-69
ENG. R. SCHWEGLER	DATE 9-4-69
PROD. R. SCHWEGLER	DATE 9-4-69

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3009B	2N3009		
2N5088	NONE		

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

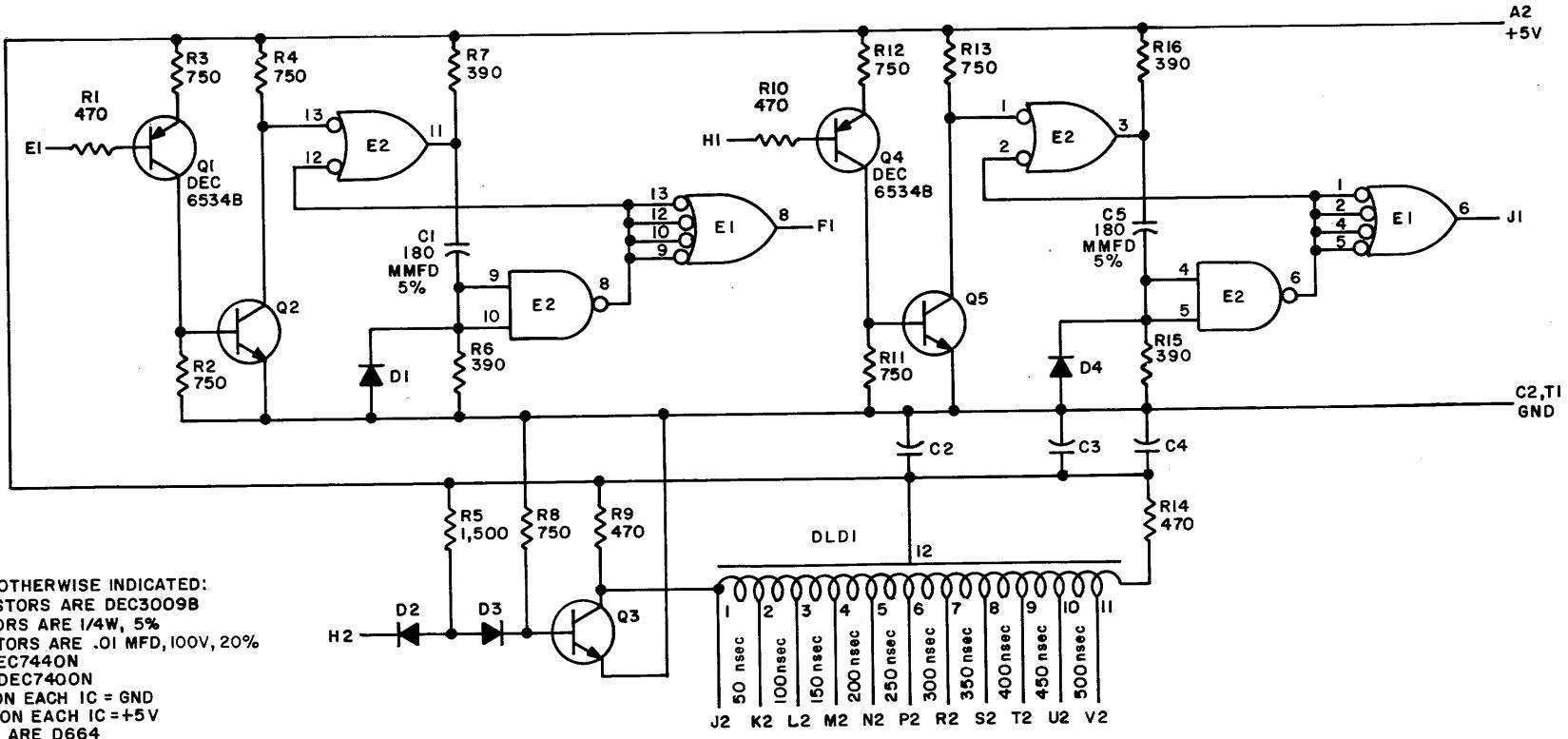
TITLE: INTEGRATING ONE SHOT
M307

SIZE CODE CS M307-0-1 REV. B

PRINTED CIRCUIT REV. B

SIZE CODE CS M310-0-1
REV D NUMBER

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

DRN. *M. Haller* DATE 4-7-67
 CHGD DATE 5/3/67
 ENG DATE 5/5/67
 PROD. DATE

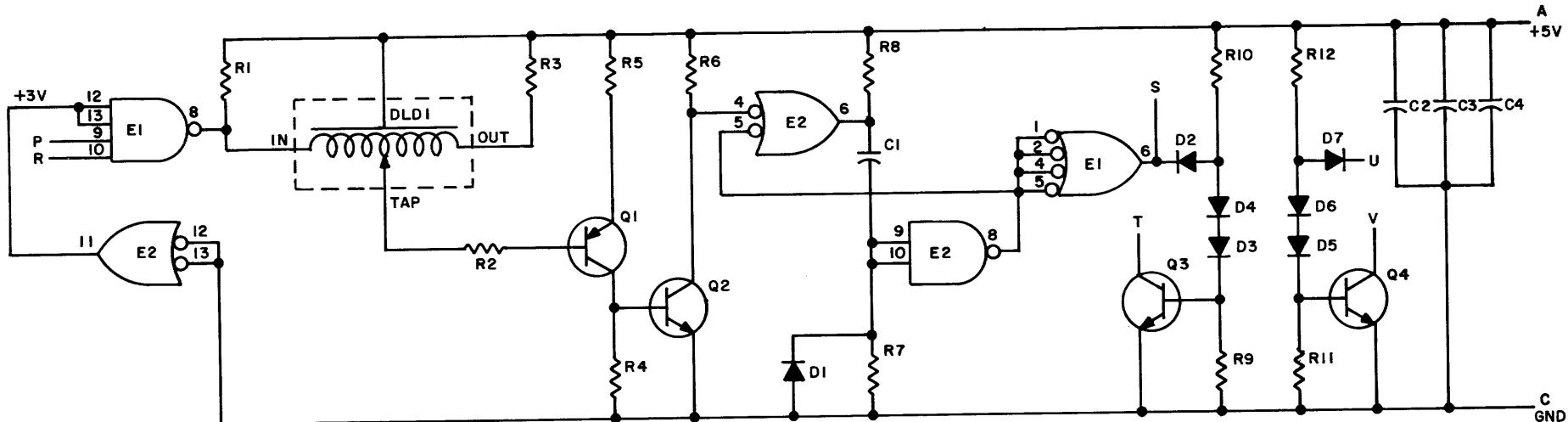
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3009B	2N3009		
DEC6534B	MPS6534		
D662	IN645		
D664	IN3606		

digital
 EQUIPMENT
 CORPORATION
 MAYNARD, MASSACHUSETTS

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

SIZE CODE M360-0-1
REV. B

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

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
PARTS LIST		
DLDI	DELAY LINE 500	I602167
E2	INTEGRATED CKT. DEC7400N	I905575
E1	INTEGRATED CKT. DEC7440N	I905579
Q1	TRANSISTOR DEC6534B	I503409-01
Q2, Q3, Q4	TRANSISTOR DEC3009B-S	I503100
R10, R12	RES. 1.5K 1/4W 5% CC	I300391
R9, RII	RES. 3K 1/4W 5% CC	I300432
R7	RES. 220 1/4W 5% CC	I300271
R4, R5, R6	RES. 750 1/4W 5% CC	I301401
R1, R2, R3, R8	RES. 470 1/4W 5% CC	I300316
D1-D7	DIODE D664	I100114
C2, C3, C4	CAP. .01MF 100V 20% DISC	I001610
C1	CAP. 330MMF 100V 5% D.M.	I000023
PARTS LIST		A-PL-M360-0-0
REFERENCE DESIGNATION		

REVISIONS	CHG NO	REV.
CHK	6978	A
CHKD	7058	B
ENG		
PROD.		

DEC FORM NO. DRB 102

DRN. *m. Waller* DATE 3-31-67
CHK'D *Miller* DATE 5/2/67
ENG *P. Seeger* DATE 5/6/67
PROD. DATE

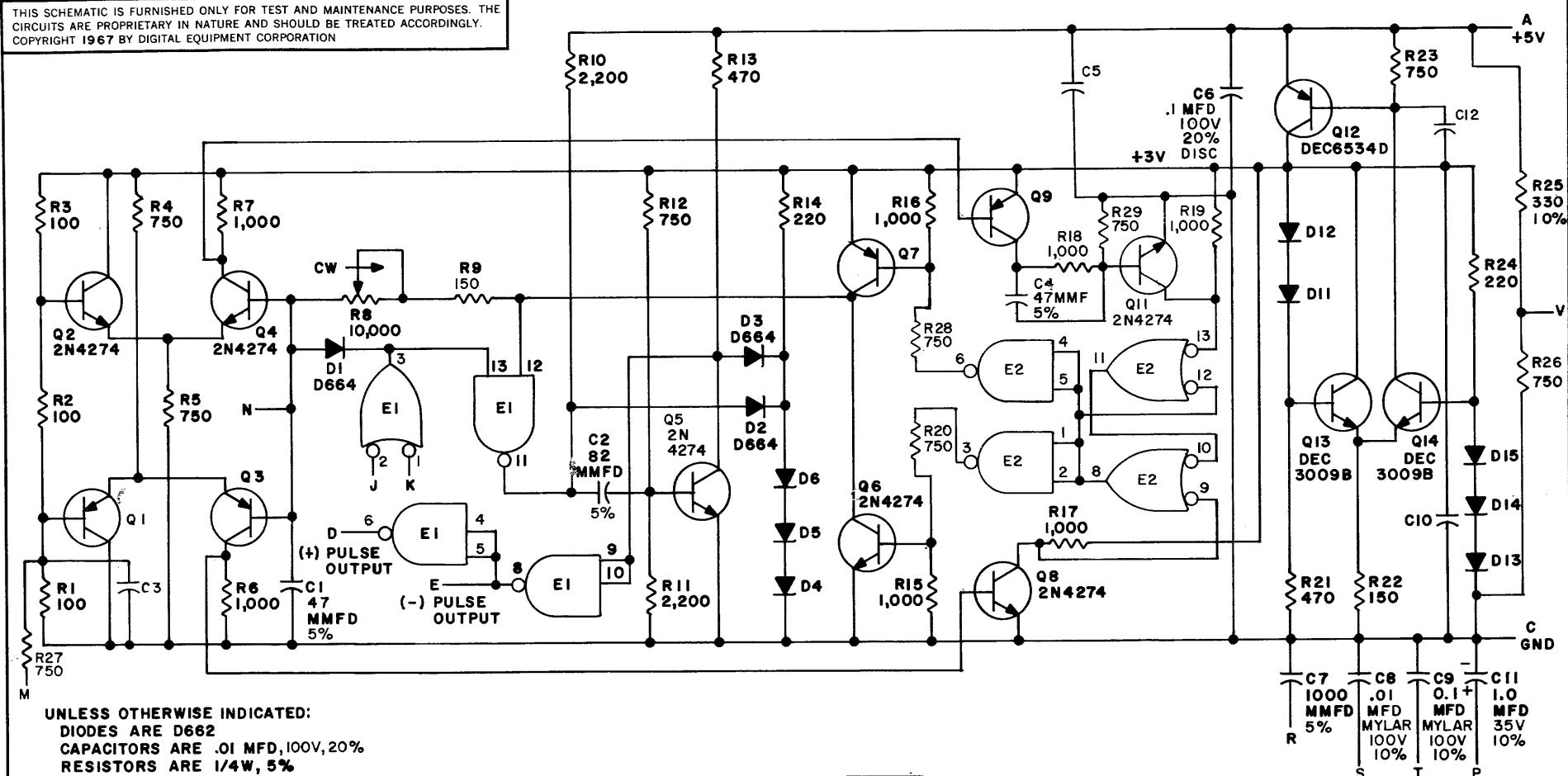
TRANSISTOR & DIODE CONVERSION CHART				digital		VARIABLE DELAY M360		
DEC	EIA	DEC	EIA	EQUIPMENT CORPORATION		REV. B		
DEC3009B	2N3009			MAYNARD, MASSACHUSETTS		PRINTED CIRCUIT REV. A/B		
DEC6534B	MP36534							
D664	IN3606							

DIST. 324 434 435

4 PINK

SIZE CODE M401-0-1
REV. M
NUMBER

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PARTS LIST A-PL-M401-0-0

REVISIONS	CHK	CHG NO.	REV.
	0	6769	A
	1	6844	B
	2	00001	C
	3	00002	D
	4	00004	E
	5	00005	F
	6	00006	G
	7	00007	H
	8	00008	I

DRN.	DATE
m.Weller	9-11-67
CHK'D	DATE
J.Schuman	9/13/67
ENG.	DATE
P.Wilson	9/13/67
PROD.	DATE

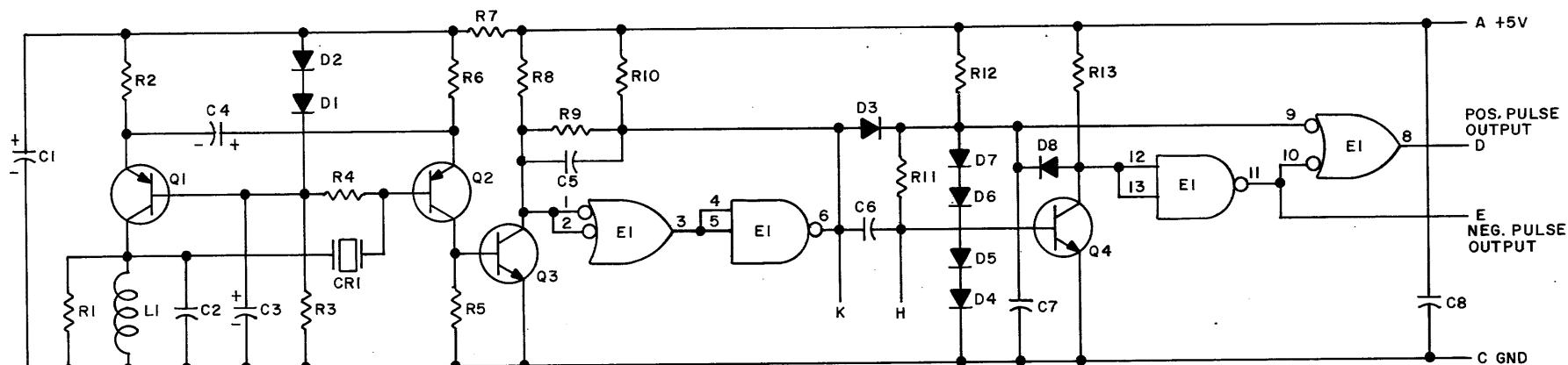
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3009B	2N3009	D662	IN645
DEC4258	2N4258	D664	IN3606
2N4274	SAME		
DEC6534D	MPS6534		

digital
EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE VARIABLE CLOCK M401
SIZE CODE B CS NUMBER M401-0-1 REV. M
PRINTED CIRCUIT REV. L
DIST 324 434 425 PINK

B CS M405-0-1
SIZE CODE 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

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
PARTS LIST		
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. 10K 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. .01 MFD 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		

REVISIONS	REV.
CHKD	

DRN.	DATE
M. Waller	1-17-68
CHKD	
ENG	
PROD.	

DEC	EIA	DEC	EIA
DEC4258	2N4258		
DEC4274	NONE		
D662	IN645		
D664	IN3606		

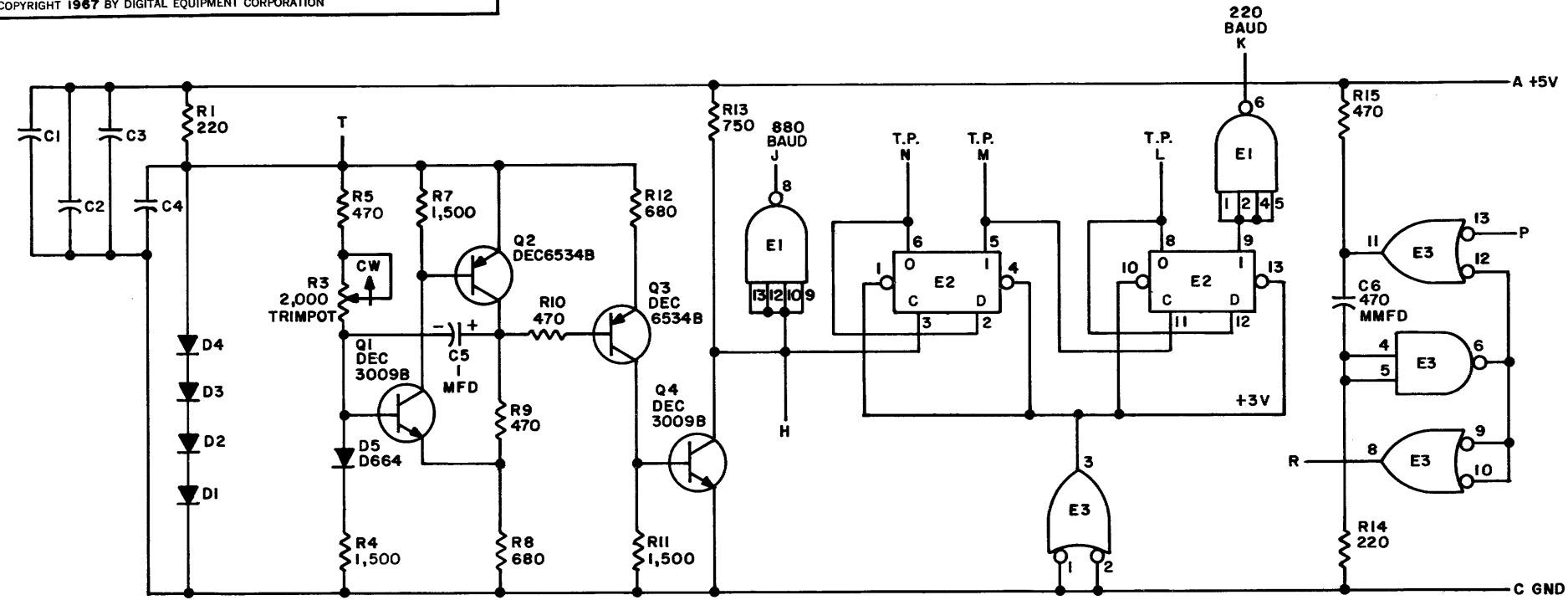
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC4258	2N4258		
DEC4274	NONE		
D662	IN645		
D664	IN3606		

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

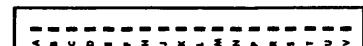
TITLE CRYSTAL CLOCK M405
SIZE B CS M405-0-1 NUMBER REV.
PRINTED CIRCUIT REV. A

B CS M452-0-1
SIZE CODE NUMBER
REV. A

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



REVISIONS	CHK	CHG NO.	REV.

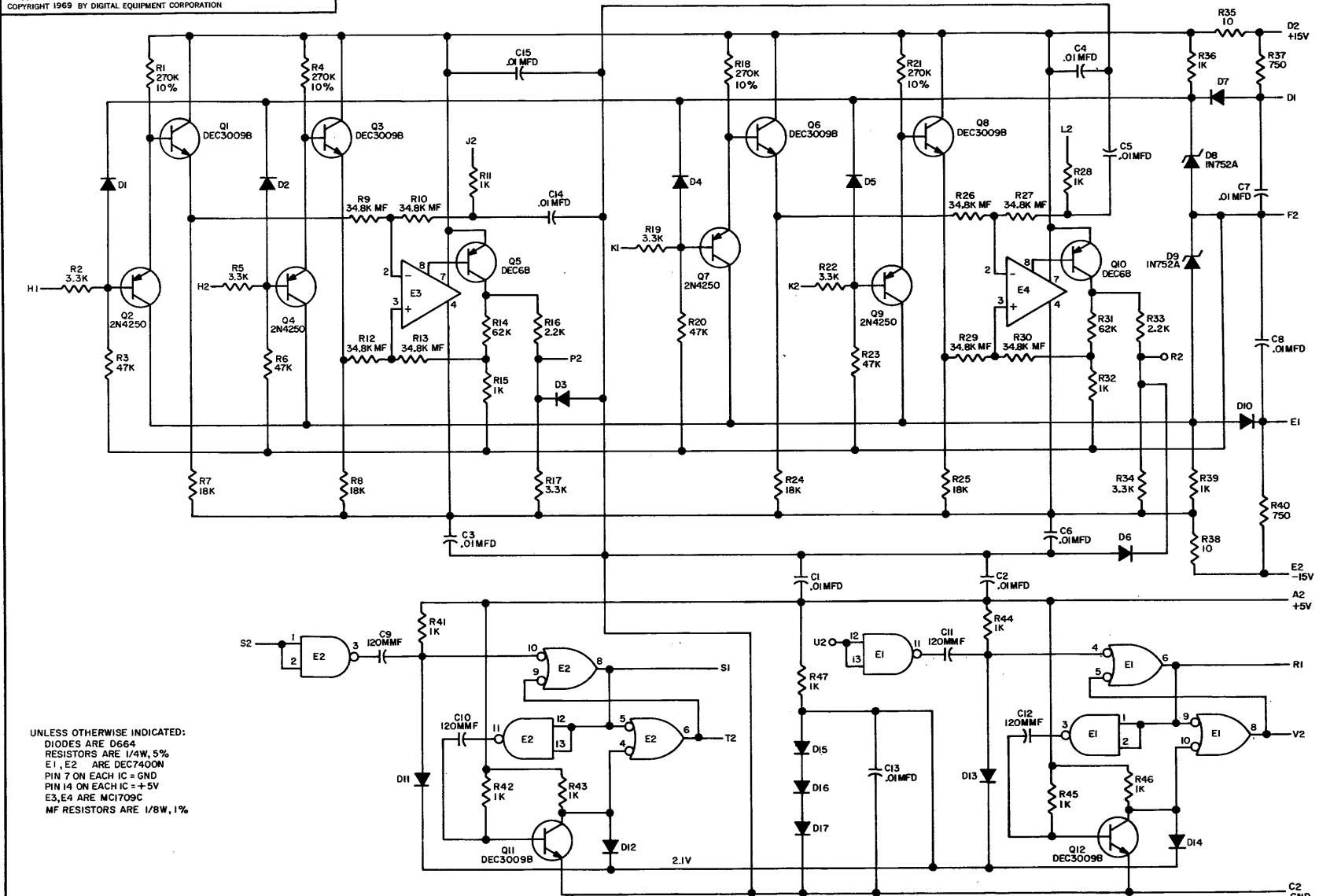
DRN.	DATE
m. Waller	4-7-67
CHK'D	DATE
REv. 1	4/12/67
ENG.	DATE
S. Sogge	4/12/67
PROD.	DATE
1	

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

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
VARIABLE CLOCK M452
SIZE CODE NUMBER
B CS M452-0-1
REV. A
PRINTED CIRCUIT REV. A

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REVISIONS	REV.
C/H	C/D
G/H	G/D
I/H	I/D

DEC FORM NO.
DRC 102

DRN. BUTLER DATE 5/1/69
C/H/D 5/1/69
ENG. R. Schenck
PROD.

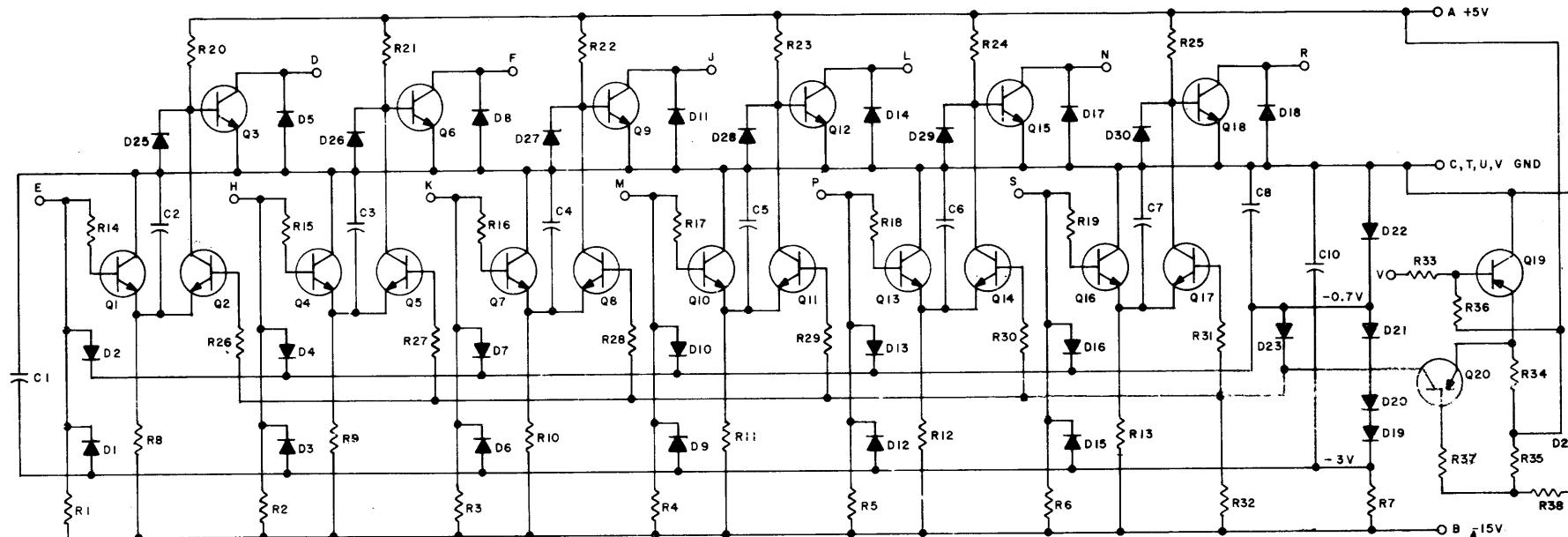
DATE	DEC	EIA	DEC	EIA
DEC3009B	IN3606	2N3009	2N3009	2N3009
2N4250	NONE	NONE	NONE	NONE
IN752A	SAME	SAME	SAME	SAME
DEC68	NONE	NONE	NONE	NONE

TRANSISTOR & DIODE CONVERSION CHART

digital
EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE SCHMITT TRIGGER M503
SIZE CODE NUMBER
C CS M503-0-1
PRINTED CIRCUIT REV. A
DIST. 324, 434, 435³

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SIZE CODE NUMBER
C CS M507-0-1

REV D

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
PARTS LIST		
R34	RES. 100 1/4W 5% CC	I300229
R36	RES. 10K 1/4W 10% CC	I300481
R38	RES. 220 1/4W 10% CC	I300275
Q19, Q20	TRANSISTOR DEC2894-IB	I503097
Q1-Q18	TRANSISTOR DEC3009B-S	I503100
R20-R25, R35, R37	RES. 1K 1/4W 5% CC	I300365
R6-R13	RES. 2.2K 1/4W 5% CC	I300417
R14-R19, R26-R31, R33	RES. 470 1/4W 5% CC	I300316
R1-R7, R32	RES. 1.5K 1/4W 5% CC	I300391
C2-C7	CAP. 470 MMF 100V 5% DM	I000024
C1, C8, C10	CAP. .01 MFD 100V 20% DISC	I001610
D19-D22, D24	DIODE D662	I100113
D1-D18, D23, D25-D30	DIODE D664	I100114
PARTS LIST		A-PL-M507-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

REVISIONS	CHG NO	REV
	00001	A
	00003	D
	00002	C

DRN. *Miller* DATE *8-24-68*

CHK'D *H. H. Ellay* DATE *8-23-68*

ENG'D *T. J. O'Leary* DATE *7-10-68*

PROD'D *J. W. Hayes* DATE *7-10-68*

DEC'D *None* DATE *None*

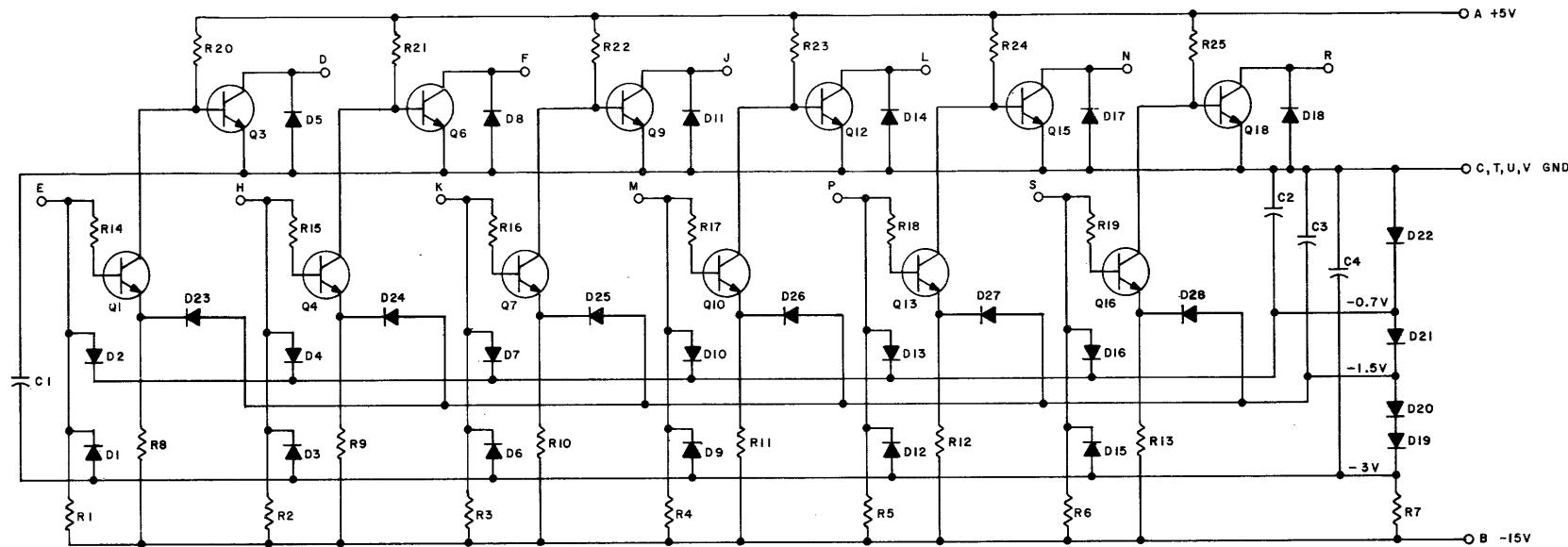
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3009B	2N3009		
D662	IN645		
D664	IN3608		
		DEC2894-IB	NONE

digital
EQUIPMENT CORPORATION
HAYWARD, MASSACHUSETTS

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

PRINTED CIRCUIT REV. F

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

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

DRN: <i>M. Waller</i>	DATE: <i>8-27-68</i>
CHKD: <i>M. Waller</i>	DATE: <i>8-27-68</i>
ENC'D: <i>1968-11-11</i>	DATE: <i>11-11-68</i>
PROD:	DATE:

TRANSISTOR & DIODE CONVERSION CHART	
DEC	EIA
DEC3009B	2N3009
D662	IN645
D664	IN3C06

digital
EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

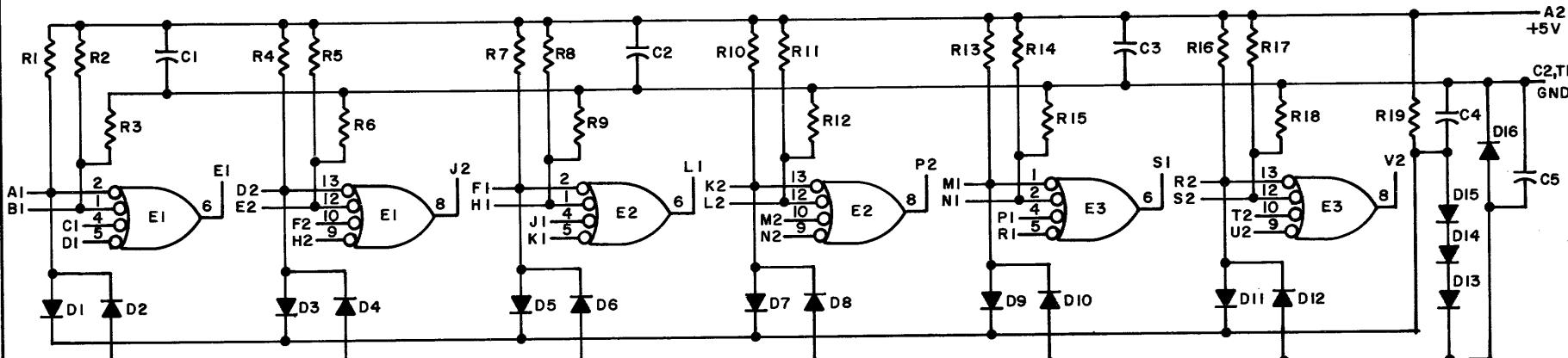
TITLE: BUS CONVERTER M508
SIZE CODE NUMBER
C CS M508-0-1 REV.
A
PRINTED CIRCUIT REV. C

REVISIONS
CHG/CHG NO REV
000011

DEC FORM NO
DRC 102

B CS M516-0-1
SIZE CODE NUMBER
REV.

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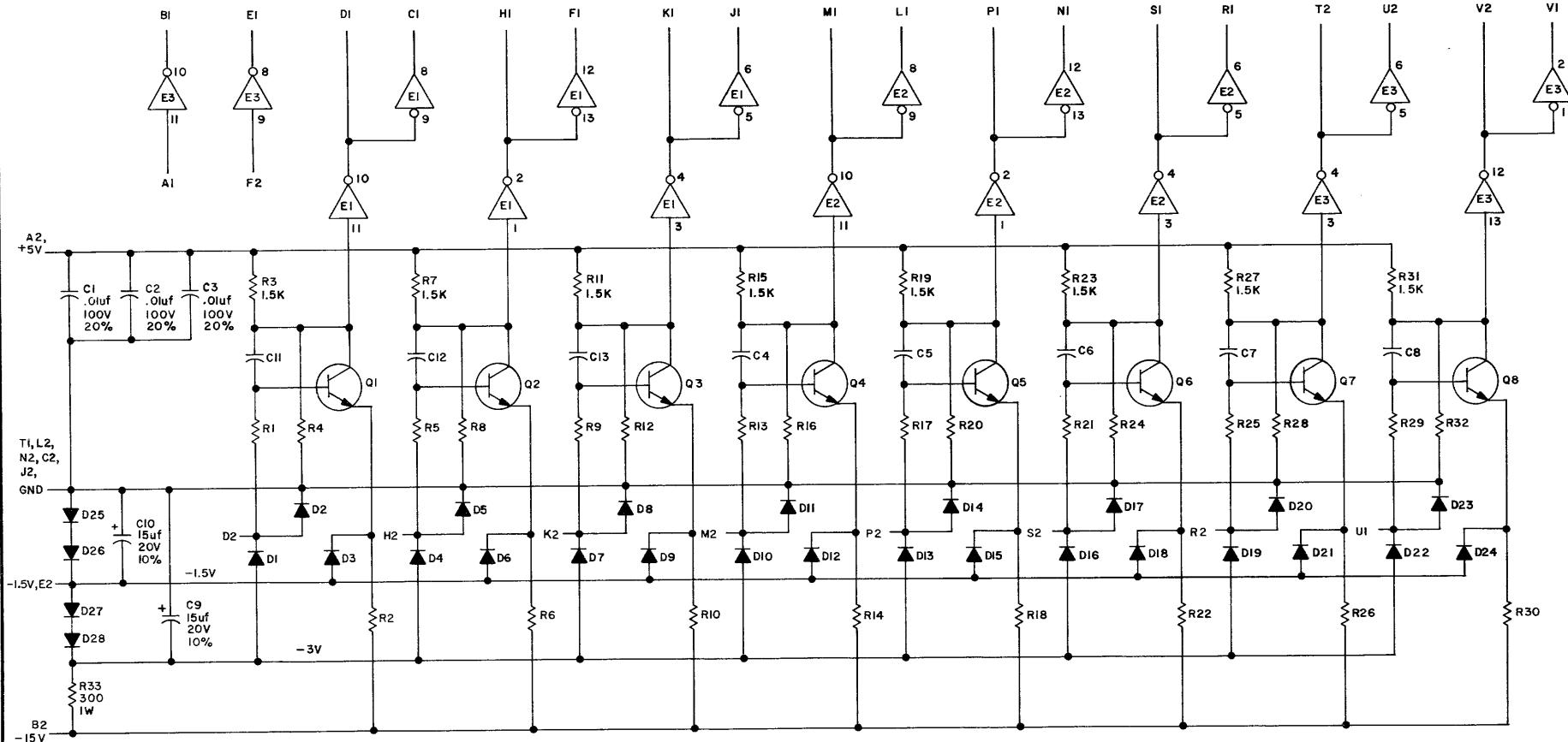


NOTES:

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

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
E1-E3	INTEGRATED CKT. DEC7420N	I905577
R19	RES. 330 1/4W 5% CC	I300295
R3,R6,R9,R12,R15,R18	RES. 1.5K 1/4W 5% CC	I300391
R2,R5,R8,R11,R14,R17	RES. 750 1/4W 5% CC	I301401
R1,R4,R7,R10,R13,R16	RES. 220 1/4W 5% CC	I300271
D13 - D16	DIODE D662	I100113
D1 - D12	DIODE D664	I100114
C1 - C5	CAP. .01MF 100V 20% DISC	I001610
PARTS LIST	A-PL-M516-0-0	
REFERENCE DESIGNATION	DESCRIPTION	PART NO.
PARTS LIST		

REVISIONS	DRN. <i>M. Waller</i>	DATE 6-20-68	TRANSISTOR & DIODE CONVERSION CHART	digital		TITLE POSITIVE BUS RECEIVER M516	
CHK'D	CHK'D <i>M. Parillo</i>	DATE 6-20-68	DEC D662	EIA IN645	DEC D664	EIA IN3606	SIZE B
ENG.	ENG. <i>J. T. C. Taylor</i>	DATE 7/16/68					CODE CS
PROD.	PROD.	DATE					NUMBER M516-0-1
				EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			
				PRINTED CIRCUIT REV. A			



UNLESS OTHERWISE INDICATED:
RESISTORS ARE 3K, 1/4W, 5%
DIODES ARE D664
CAPACITORS ARE 150 pf, 100V, 5%
TRANSISTORS ARE DEC3009B
IC'S ARE DECT7404

DRN. *Nancy Moore*
CHK'D. *R. Johnson*
ENG. *E. Leto*
PRDD. *D. Well*

DEC	EIA	DEC	EIA
DEC3009B	2N3009		
D664	IN3606		

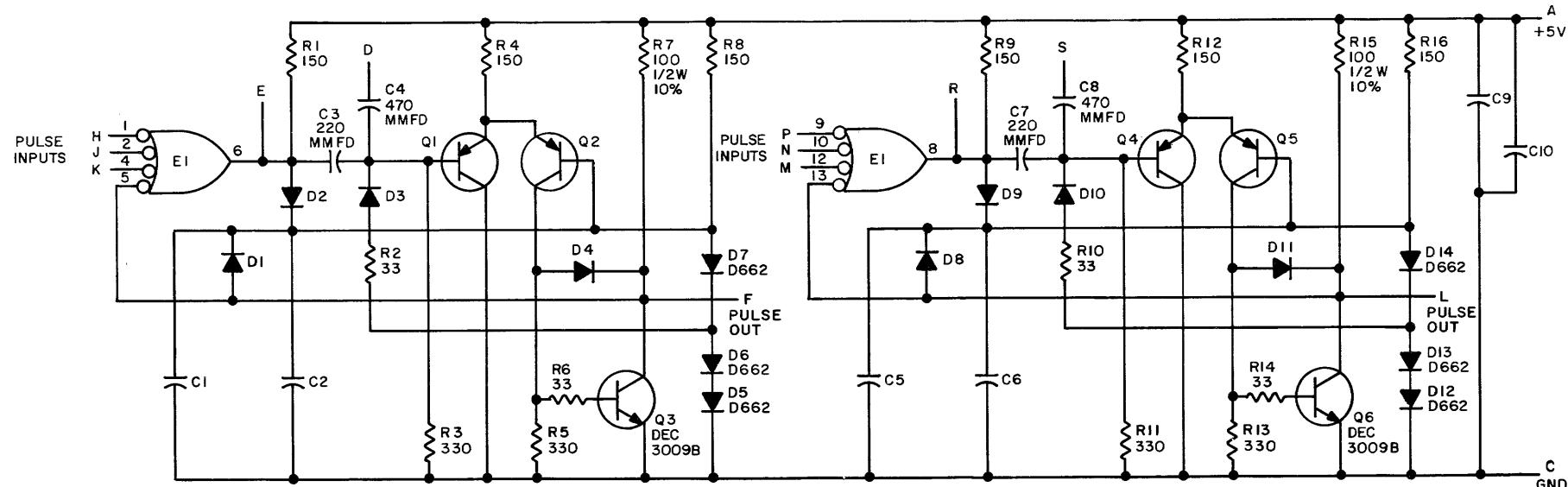
digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

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

REVISIONS
CHECKING NO. REV.
000001-A

SIZE CODE M602-0-1 NUMBER REV. B

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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 DEC74H4ON

REVISIONS	REV.
CHK'D	B
PROD.	6720

DRN.	DATE
m. Waller	6-1-67
CHK'D	6-8-67
ENG.	DATE
x. White	6-8-67
PROD.	DATE
I	

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3009B	2N3009		
DEC3639B	2N3639		
D662	IN645		
D664	IN3606		

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
PULSE GENERATOR M602
SIZE CODE M602-0-1 NUMBER REV. B
PRINTED CIRCUIT REV. A

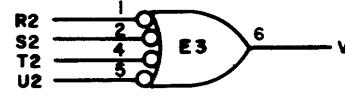
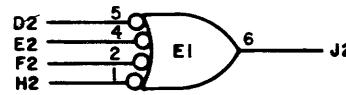
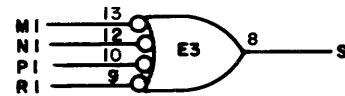
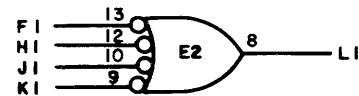
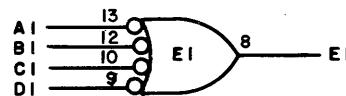
REV E
NUMBER M617-0-1
SIZE CODE B CS

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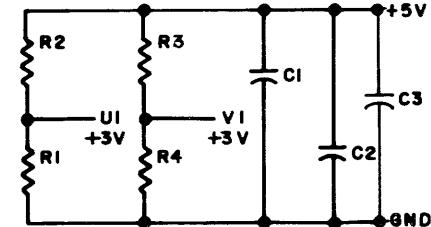
+5V ————— A2

NOT USED -15V ————— B2

GND ————— C2, TI



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



REFERENCE DESIGNATION	DESCRIPTION	PART NO.
PARTS LIST		
EI THRU E3	INTEGRATED CKT. DEC7440N	I905579
R2 & R3	RES 330 1/4W 10% CC	I300293
R1 & R4	RES. 750 1/4W 5% CC	I301401
C1 & C2 & C3	CAP. .01MF 100V 20% DISC	I001610
PARTS LIST		A-PL-M617-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

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

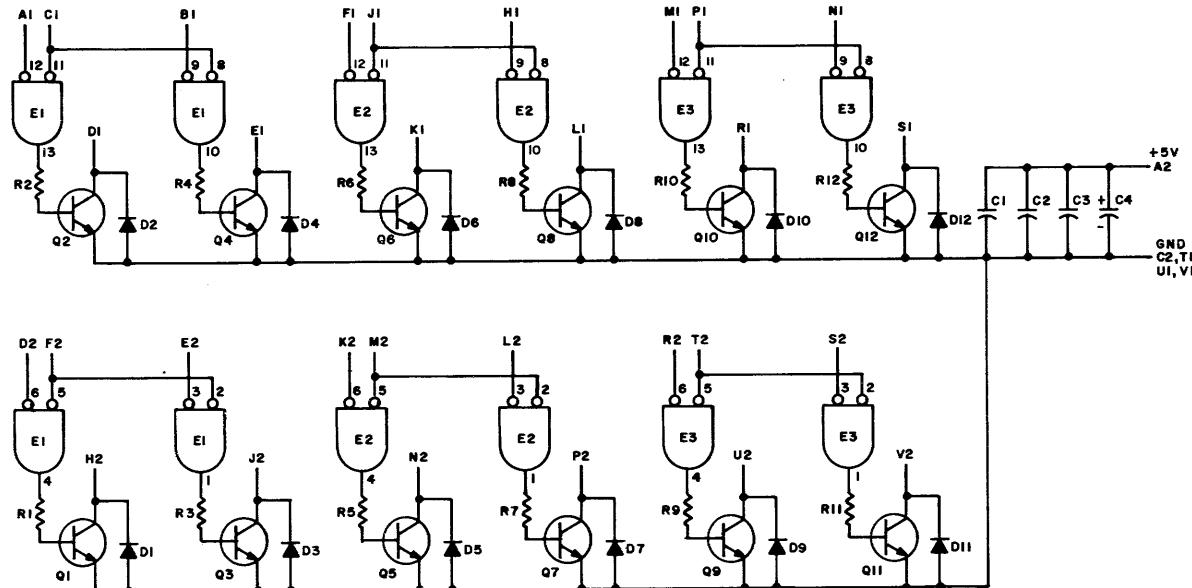
DRN.	DATE
<i>Waller</i>	3-16-67
CHK'D	DATE
<i>Murray</i>	4-21-67
ENG	DATE
<i>Z. White</i>	4-21-67
PROD.	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital
EQUIPMENT
CORPORATION
MAYNARD MASSACHUSETTS

TITLE 6-4 INPUT
NOR BUFFERS M617
SIZE CODE B 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

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
PARTS LIST		
E1-E3	INTEGRATED CKT. DEC7402	I909004
Q1-Q12	TRANSISTOR DEC3009B	I503100
R1-R12	RES. 390 1/4W 5% CC	I300309
D1-D12	DIODE D664	I100114
C4	CAP. .6.8MF 35V 20% STANT	I000067
C1-C3	CAP. .01MF 100V 20% DISC	I001610
PARTS LIST		

DRN	DATE	TRANSISTOR & DIODE CONVERSION CHART
m. mullen	6-7-80	
CHK'D	DATE	DEC EIA DEC EIA
REVISIONS	10002	DEC 684 IN3608 DEC 684 IN3608
CHK'D	10003	DEC3009B ZW3009
PROD.	DATE	



TITLE
BUS DRIVER M623
SIZE CODE NUMBER
C CS M623-0-1
REV. E
PRINTED CIRCUIT REV. DE
5

REVISIONS	10002
CHK'D	10003
PROD.	10004

DEC FORM NO. 102

REV. E

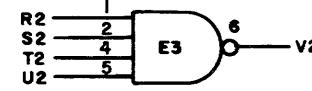
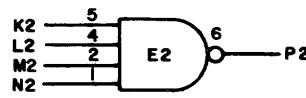
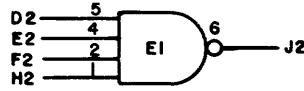
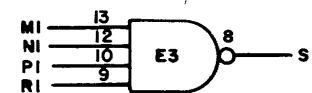
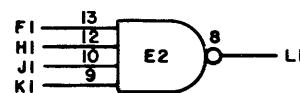
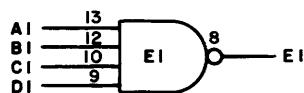
PINK

5
DIST 324443445

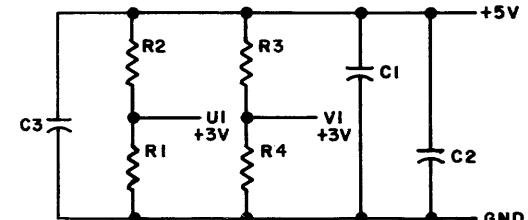
SIZE CODE NUMBER
C CS M623-0-1
REV. E

SIZE CODE M627-0-1 NUMBER REV F

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



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

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
E1 THRU E3	INTEGRATED CKT. DEC74H40	I905586
R2 & R3	RES. 330 1/4W 10% CC	I300293
R1 & R4	RES. 750 1/4W 5% CC	I301401
C1 THRU C3	CAP. .01MF 100V 20% DISC	I001610
PARTS LIST		A-PL-M627-0-0

PARTS LIST

POWER AMPLIFIER
MODULE M627

digital

EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

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

PRINTED CIRCUIT REV. A

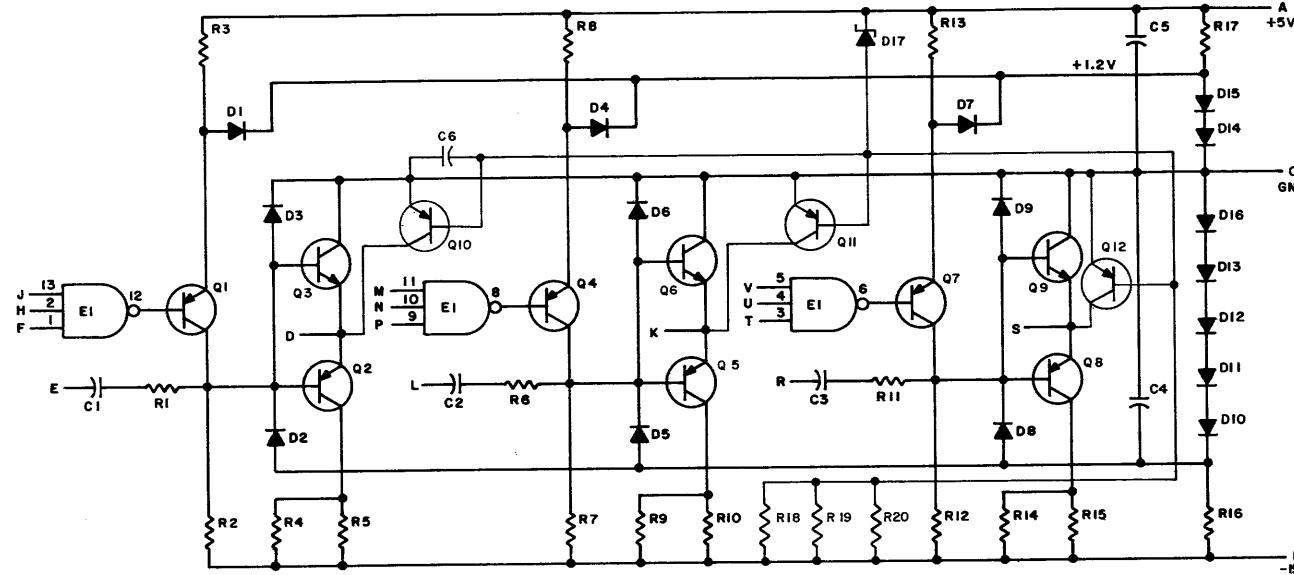
DIST. 324 434 435

REVISIONS		CHK	CHG NO	REV	DRN.	DATE
2	0	6825	A	B	m. Waller	7-18-67
2	0	00001	C	E	K. Silverman	7-19-67
2	0	00002	D	F	M. S. Gorla	7-20-67
2	0	00003			PROD	DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

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REV B
NUMBER M651-0-1
SIZE CODE CS

REFERENCE DESIGNATION	DESCRIPTION	PART NO
PARTS LIST		
EI 03, Q6, Q9	INTEGRATED CKT. DEC 7410N	I905576
Q1, Q2, Q4, Q5, Q7, Q8, Q10, Q11, Q12	TRANSISTOR DEC 3009 B-S	I503100
R16, R18, R19, R20	TRANSISTOR DEC 6534B	I503409-01
R4, R5, R9, R10, R14, R15	RES. 15K 1/4W 5% CC.	I300391
R3, R8, R13	RES. 1K 1/4W 5% CC	I300365
R2, R7, R12, R17	RES. 470 1/4W 10% CC	I300317
R1, R6, R11	RES. 3K 1/4W 5% CC	I300432
D17	RES. 82 1/4W 10% CC.	I300224
D10 - D16	DIODE IN750A	I100124
D1 - D9	DIODE D662	I100113
C4, C5, C6	DIODE D664	I100114
C1, C2, C3	CAP .01 MFD 100V 20% DISC	I001610
	CAP 330 NMF 100V 5% D.M.	I000023
PARTS LIST		A-PL-M651-0-0

REVISIONS	CHG NO	REV
000001		B
DATE	DATE	DATE
2-3-69	2-7-76	DEC 3009
ENG.	DATE	DEC 6534B
PROD.	DATE	MP56534
		DE62
		IN645
		DE64
		IN3606
		IN750A
		SAME

TRANSISTOR & DIODE CONVERSION CHART	
DEC	EIA
DEC	EIA

digital
EQUIPMENT CORPORATION
MAYWOOD, MASSACHUSETTS

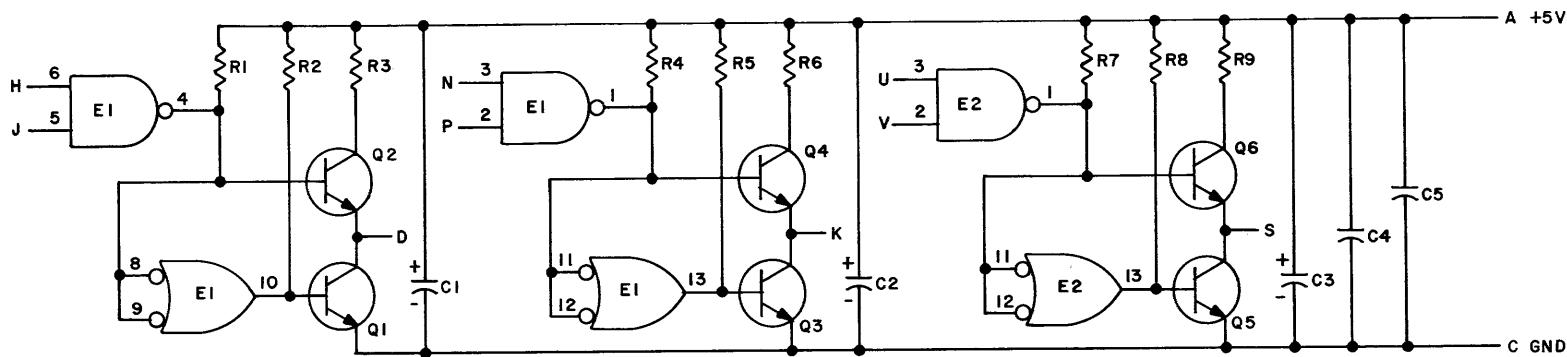
TITLE: NEGATIVE OUTPUT CONVERTER M651

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

PRINTED CIRCUIT REV. A/C

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

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NOTES:

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

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
PARTS LIST		
E1, E2	INTEGRATED CKT. DEC7401N	I905590
Q1 - Q6	TRANSISTOR DEC3009B-S	I503100
R3, R6, R9	RES. 27 1/2W 5% CC	I302253
R2, R5, R8	RES. 1.5K 1/4W 5% CC	I300391
R1, R4, R7	RES. 470 1/4W 5% CC	I300316
C4, C5	CAP. .01MF D 100V 20% DISC	I001610
C1 - C3	CAP. 6.8MFD 35V 20% S.TANT	I000067
PARTS LIST		A-PL-M660-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

REVISIONS		A
CHK	CHG NO.	REV.
000001		
224		

DRN. <i>m. Muller</i>	DATE 7-12-68
CHK'D <i>m. Muller</i>	DATE 7-12-68
ENG. <i>J. J. Chappell</i>	DATE 7-12-68
PROD.	DATE

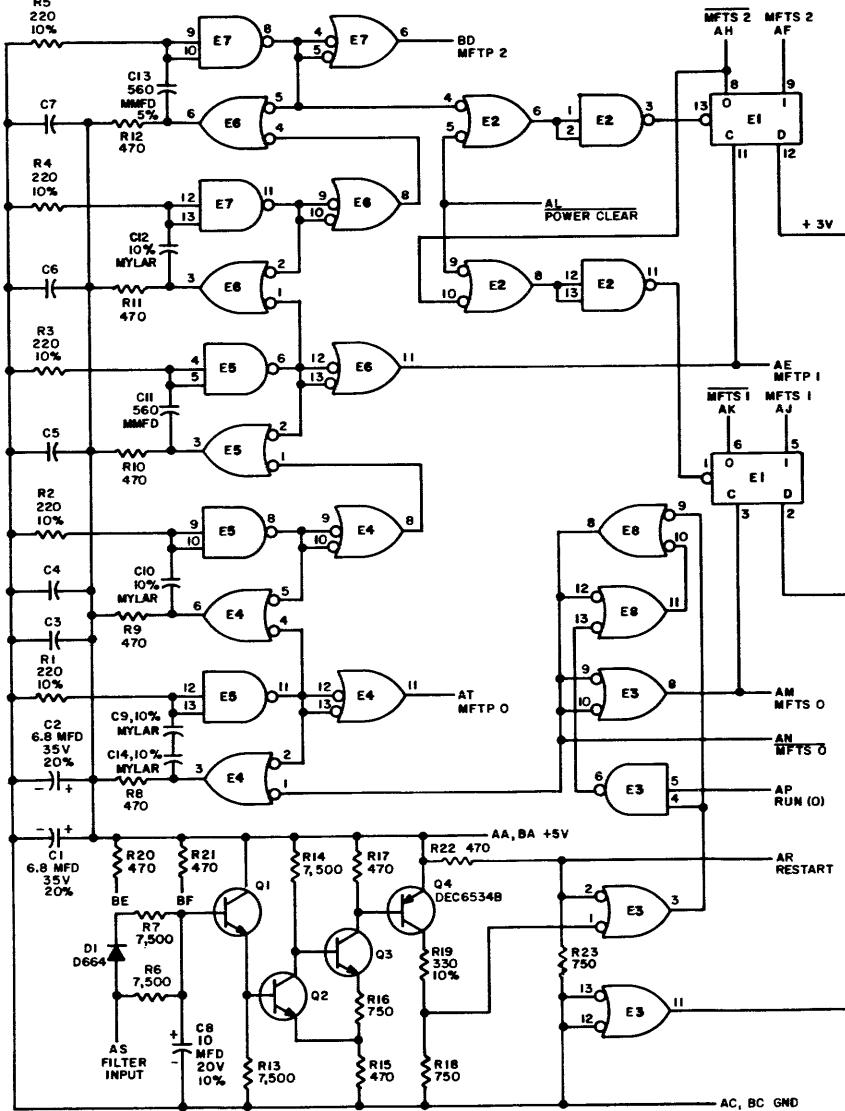
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D664	IN3606		
IN750	SAME		
DEC3009B	2N3009		



TITLE
POSITIVE
LEVEL DRIVER M660
SIZE CODE CS M660-0-1 REV. A

PRINTED CIRCUIT REV. B

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PARTS LIST A-PL-M700-0-0

REVISIONS	
CHG	CHG NO REV
A	00001
B	00002
C	00003

DEC FORM NO.
DRC 102

TRANSISTOR & DIODE CONVERSION CHART

DATE	DEC	EIA	DEC	EIA
5-17-67				
5-17-67	DEC3009B	2N3009		
5-17-67	DEC6534B	MPS6534		
5-17-67	D664	IN3606		
Z-3-68				

digital

EQUIPMENT
CORPORATION

MAYNARD, MASSACHUSETTS

PRINTED CIRCUIT REV.

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

PRINTED CIRCUIT REV.

E

5

PRINTED CIRCUIT REV.

E

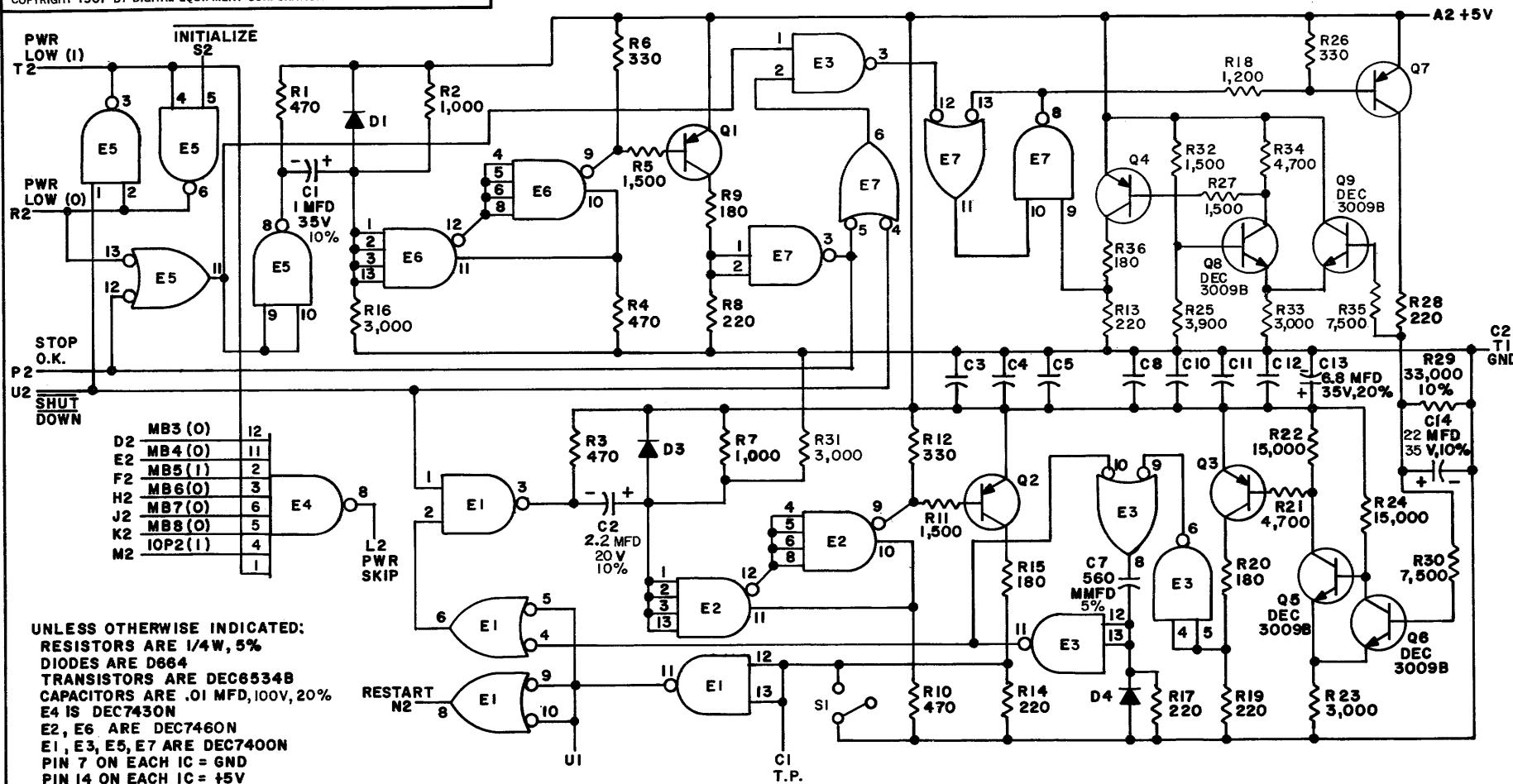
5

5

REF ID: C CS M700-0-1
REV: E
NUMBER:

B CS M703-0-1 NUMBER REV. J

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REV.		C	D	E	F	G
CHG	NO.					
6	6	7	7	4	8	
7	7	12	5	6	5	
8	8	00001	00001	00004	00004	
9	9					
10	10					

DRN. *M. Heller* DATE 9-27-67

CHK'D

DATE

10/20/67

DATE

10/20/67

DATE

10/20/67

PROD. 2 DATE

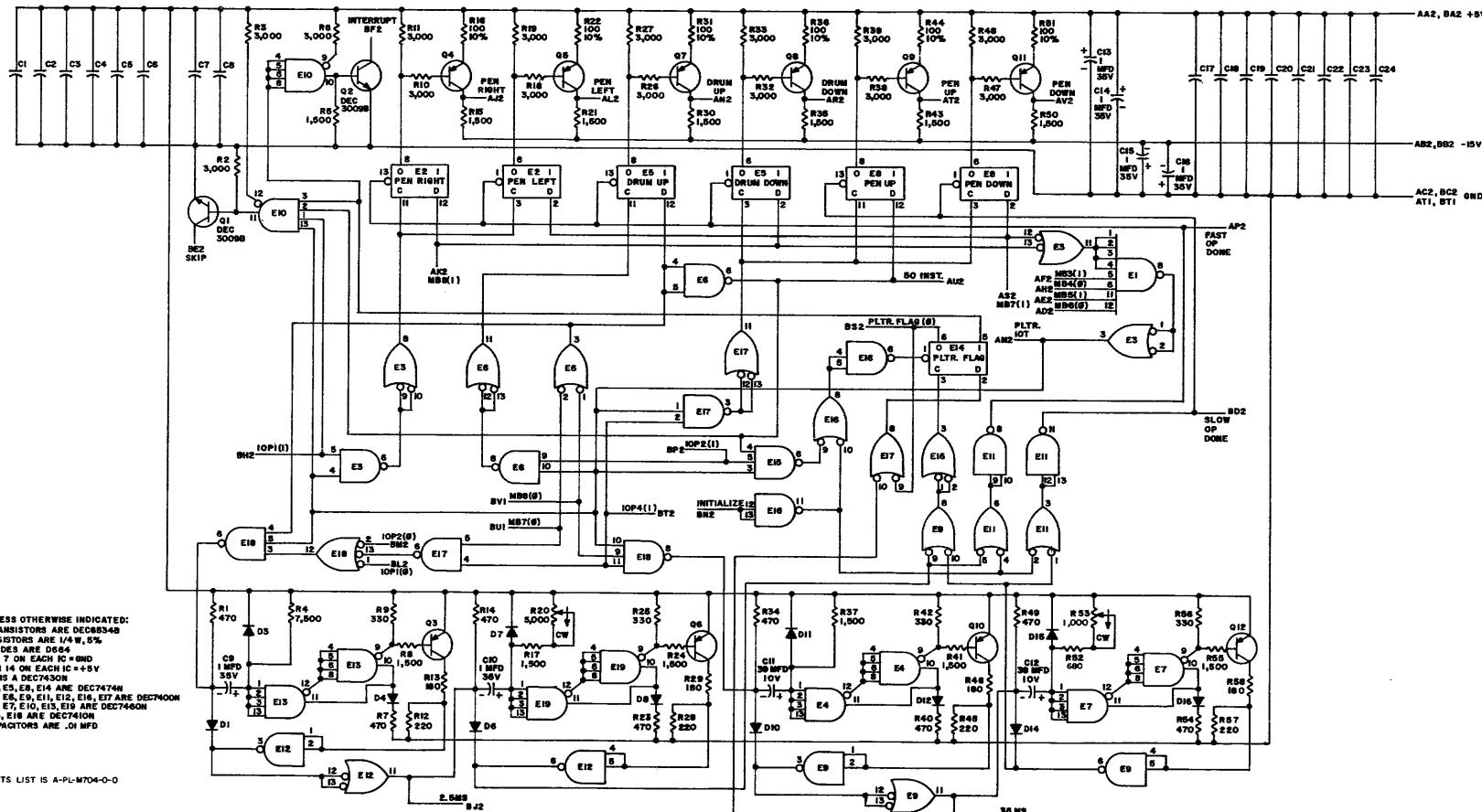
TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC6534B	MPS6534		
D664	IN3606		
DEC3009B	2N3009		

digital
EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

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

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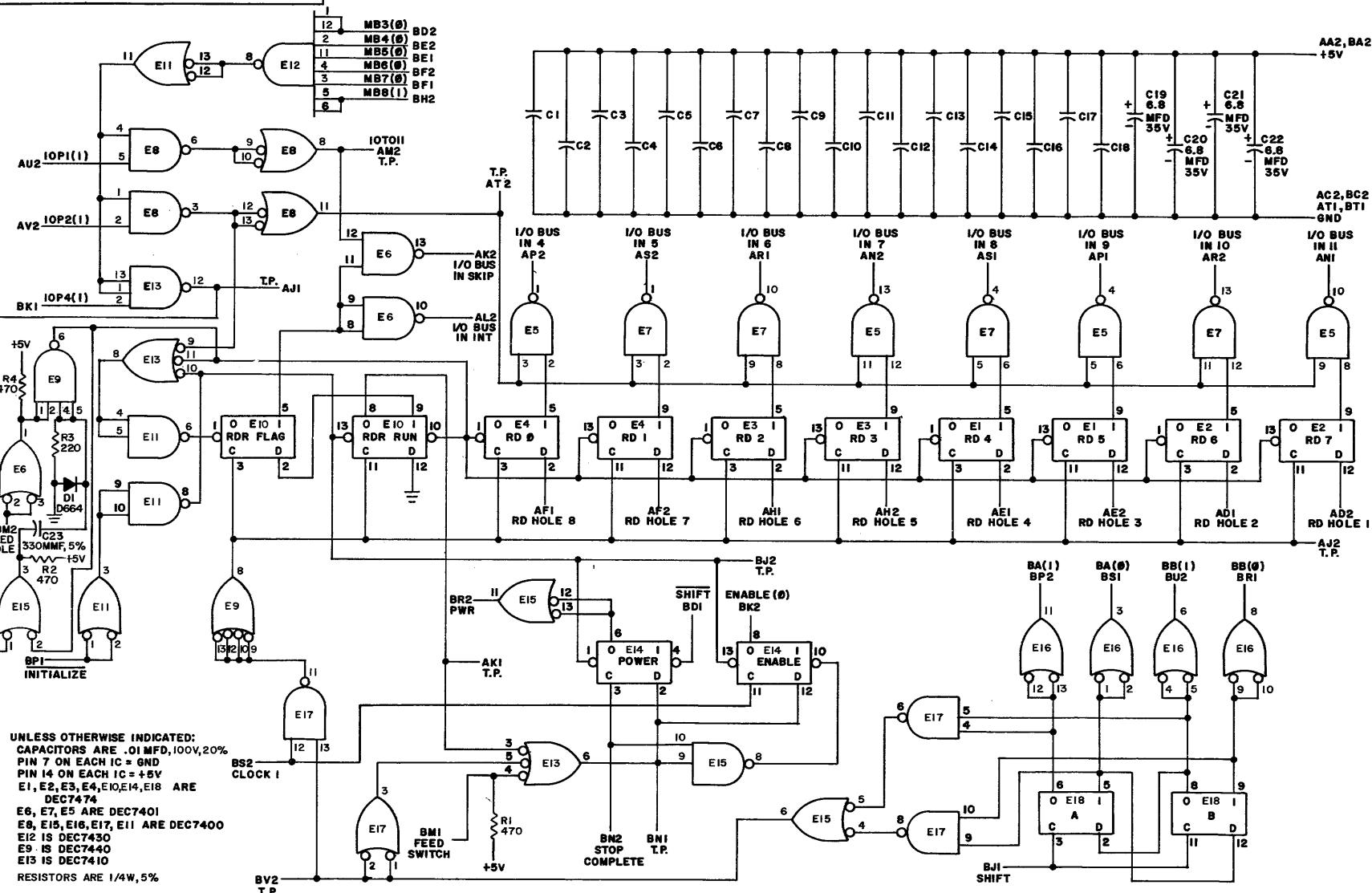


UNLESS OTHERWISE INDICATED:
TRANSISTORS ARE DEC6854B
RESISTORS ARE 1/4W, 5%
DIODES ARE D684
PIN 10 ON EACH IC = GND
PIN 14 ON EACH IC = +5V
E1 IS A DE3450N
E2, E3, E5, E6, E14 ARE DEC7474N
E3, E6, E9, E10, E12, E16, E17 ARE DEC7400N
E4, E7, E10, E15, E19 ARE DEC7440N
E15, E19 ARE DEC7410N
CAPACITORS ARE 0.01 MFD

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

DEPNO	DATE	TRANSISTOR & DIODE CONVERSION CHART			
CHE NO REV		DEC	EA	DEC	EA
CHE NO REV		DEC	EA	DEC	EA
1744 C	DATED 12-67	MEC3005B	243000B		
1745 D	DATED 12-67	DEC6348B	MPS6348		
1746 E	DATED 12-67	ENV1	IR5505		
1747 F	DATED 12-67	DR44			
PROD 2	DATED 12-67				

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REV. J
SPECS CODE M705-0-1 NUMBER 1
LCS C

REVISIONS	CHG NO.	REV.
70501	00001	B
70502	00002	O
70503	00003	I
70504	00004	E
70505	00005	J
70506	00006	K
70507	00007	L

DRN. M. Waller	DATE 10-6-67
CHK'D.	DATE
ENG.	DATE
PROD.	DATE

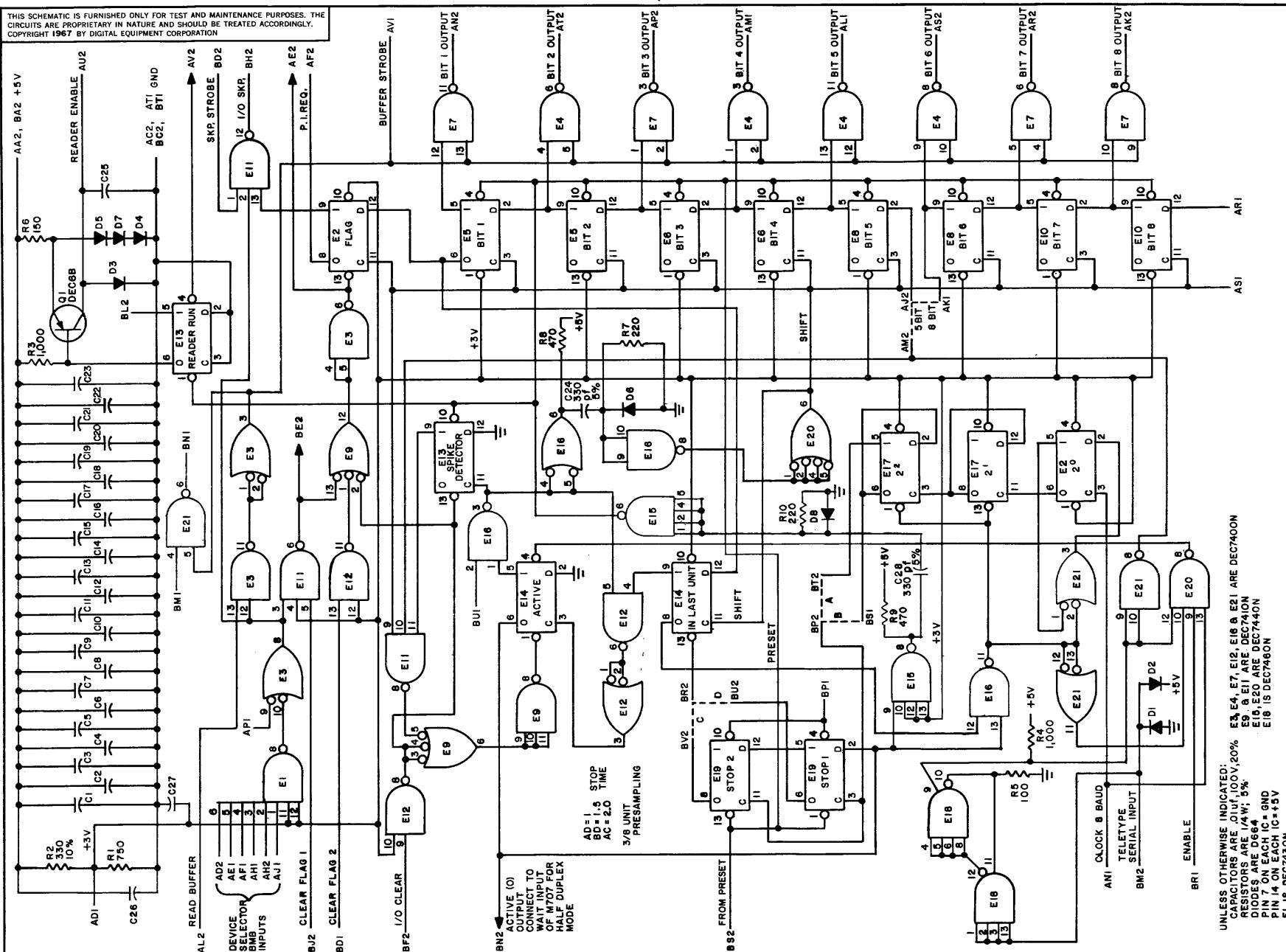
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D664	IN645		

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
READER CONTROL M705
SIZE CODE NUMBER
C CS M705-0-1
RFV.
J

PRINTED CIRCUIT REV.
J

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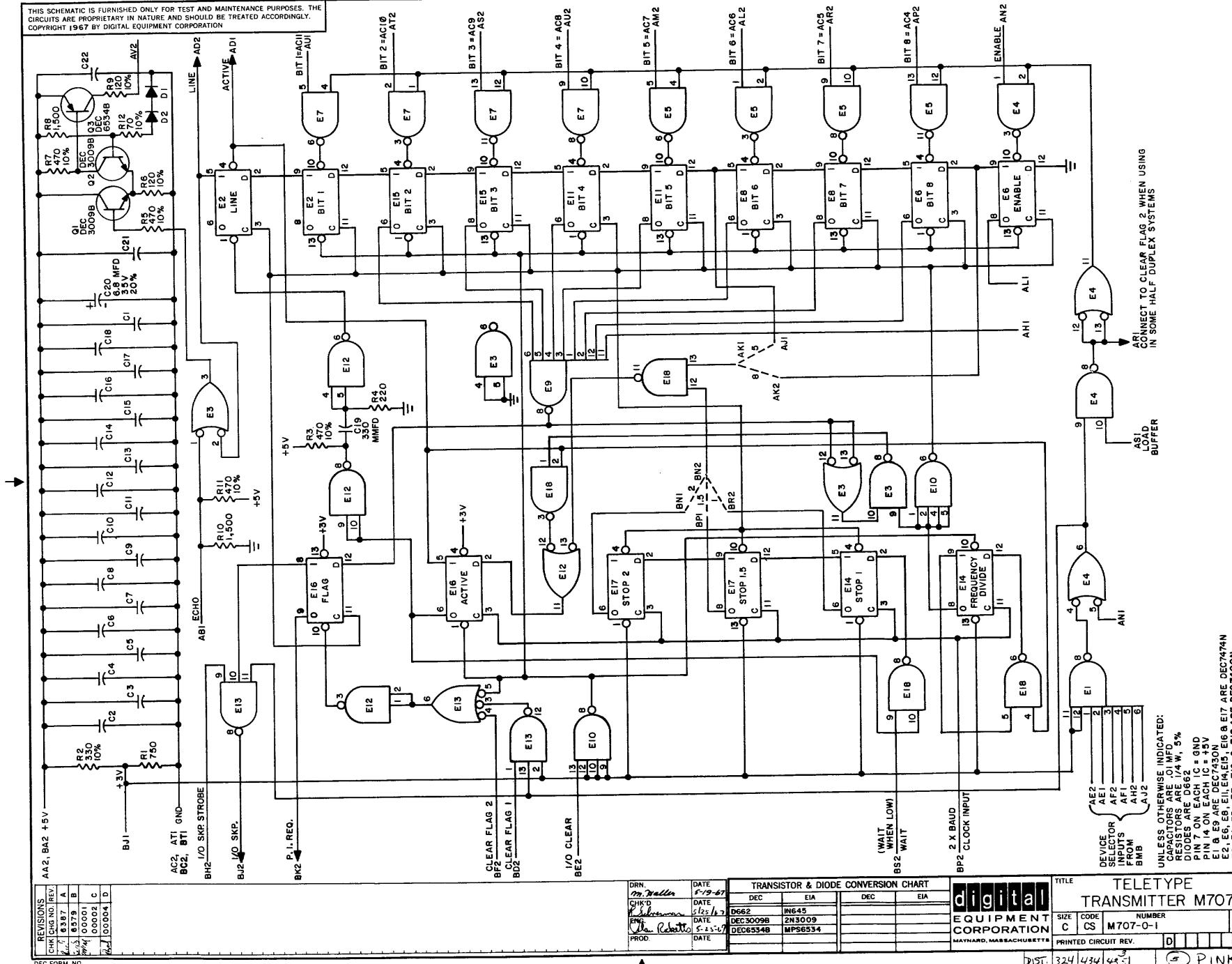
UNLESS OTHERWISE INDICATED:
CAPACITORS ARE .01UF, 10%
RESISTORS ARE 1/4W, 5%
DIODES ARE D684
PIN 1 ON EACH IC = GND
PIN 14 ON EACH IC = 5V
E11 IS DEC740N
E2, E5, E6, E8, E9, E10, E11, E12, E13, E14, E15, E16, E17, E18, E19, E20 ARE DEC744N
E10, E11, E12, E13, E14, E15, E16, E17, E18, E19, E20 ARE DEC744N
E18 IS DEC746N
E19 IS DEC747N

PARTS LIST A-PL-M706-0-0

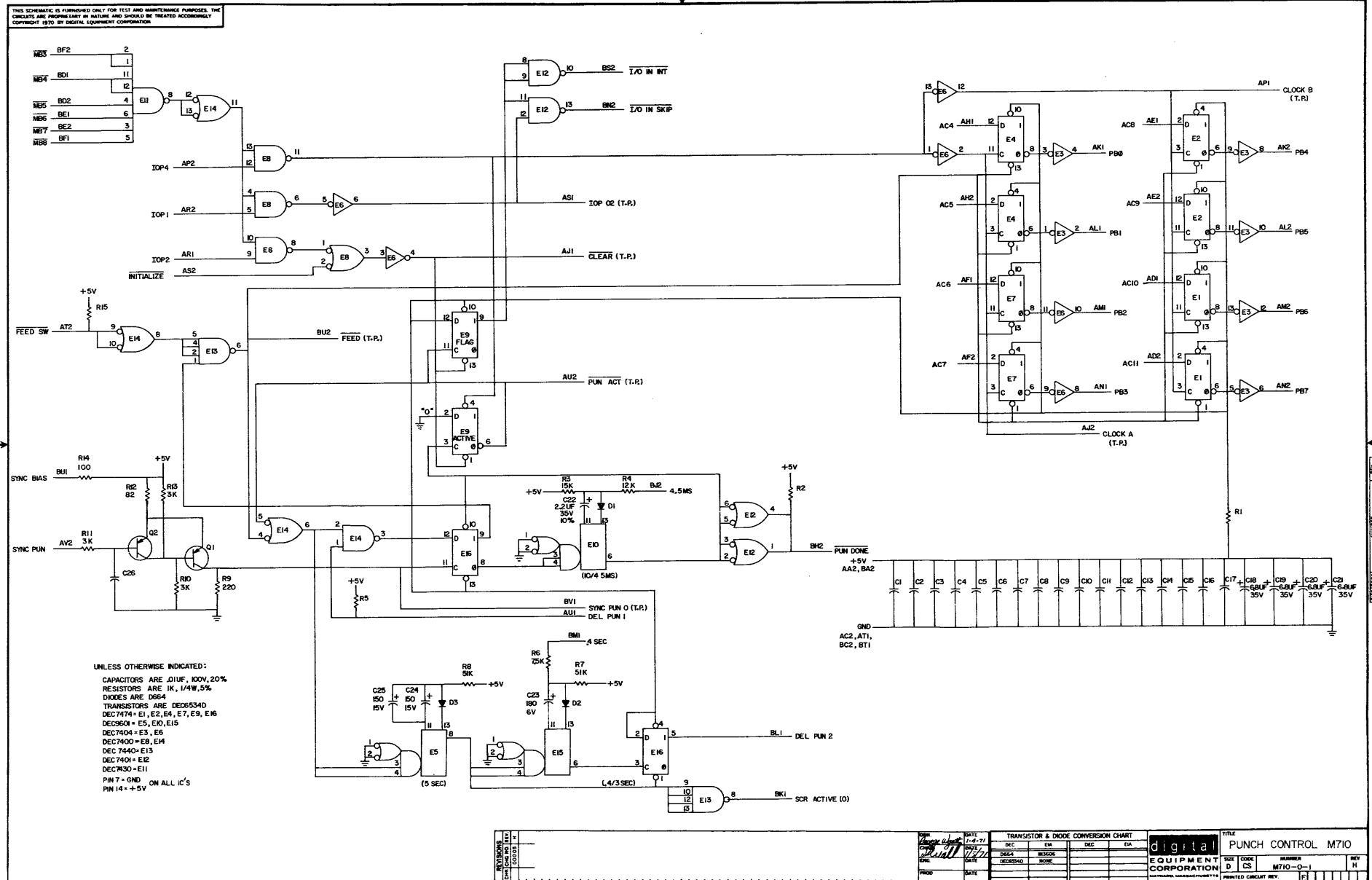
SITE CODE NUMBER REV.
C CS M706-0-1 L

TITLE TELETYPE RECEIVER M706
EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
PRINTED CIRCUIT REV. K PINK
DIST. 324, 434, 435

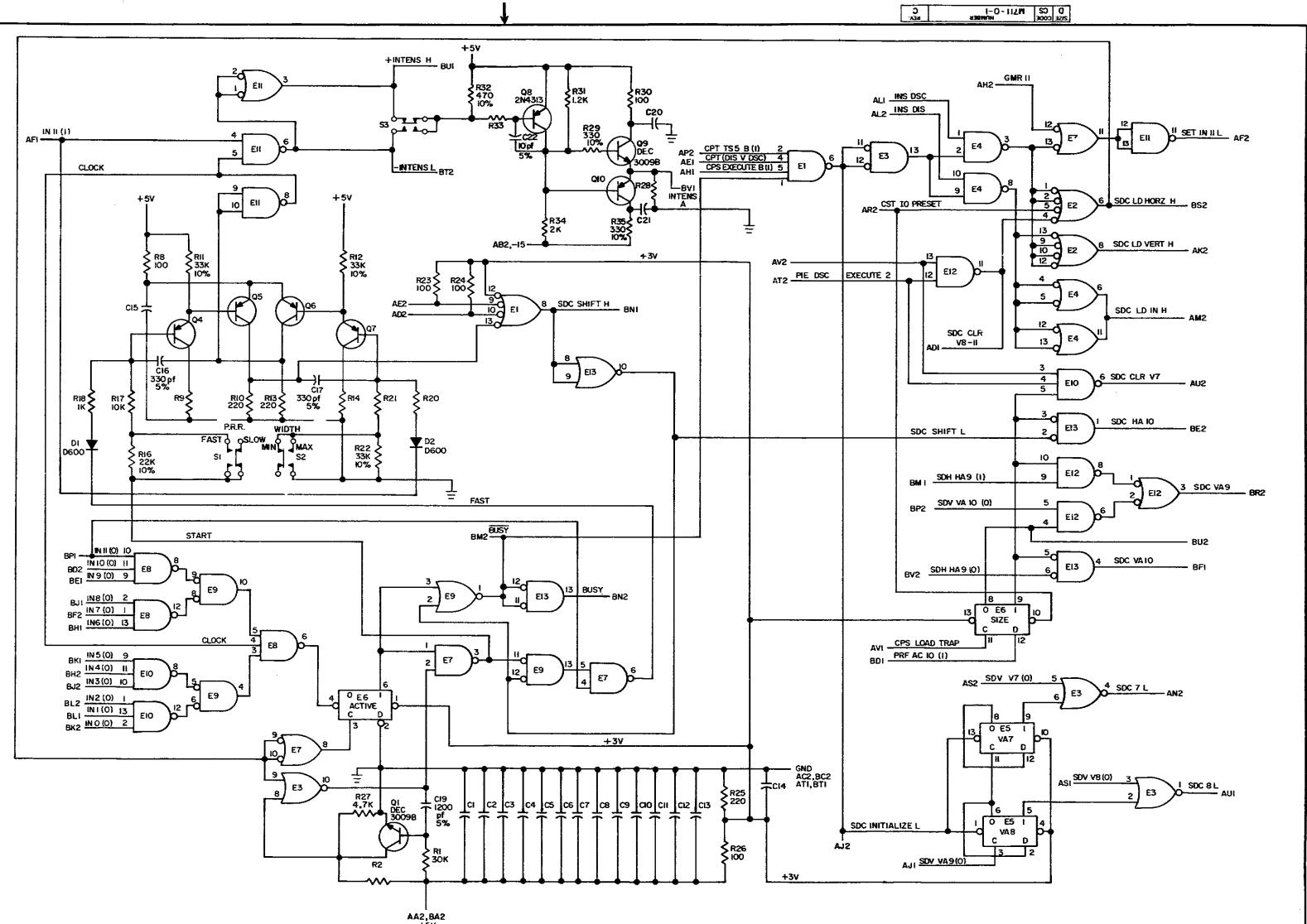
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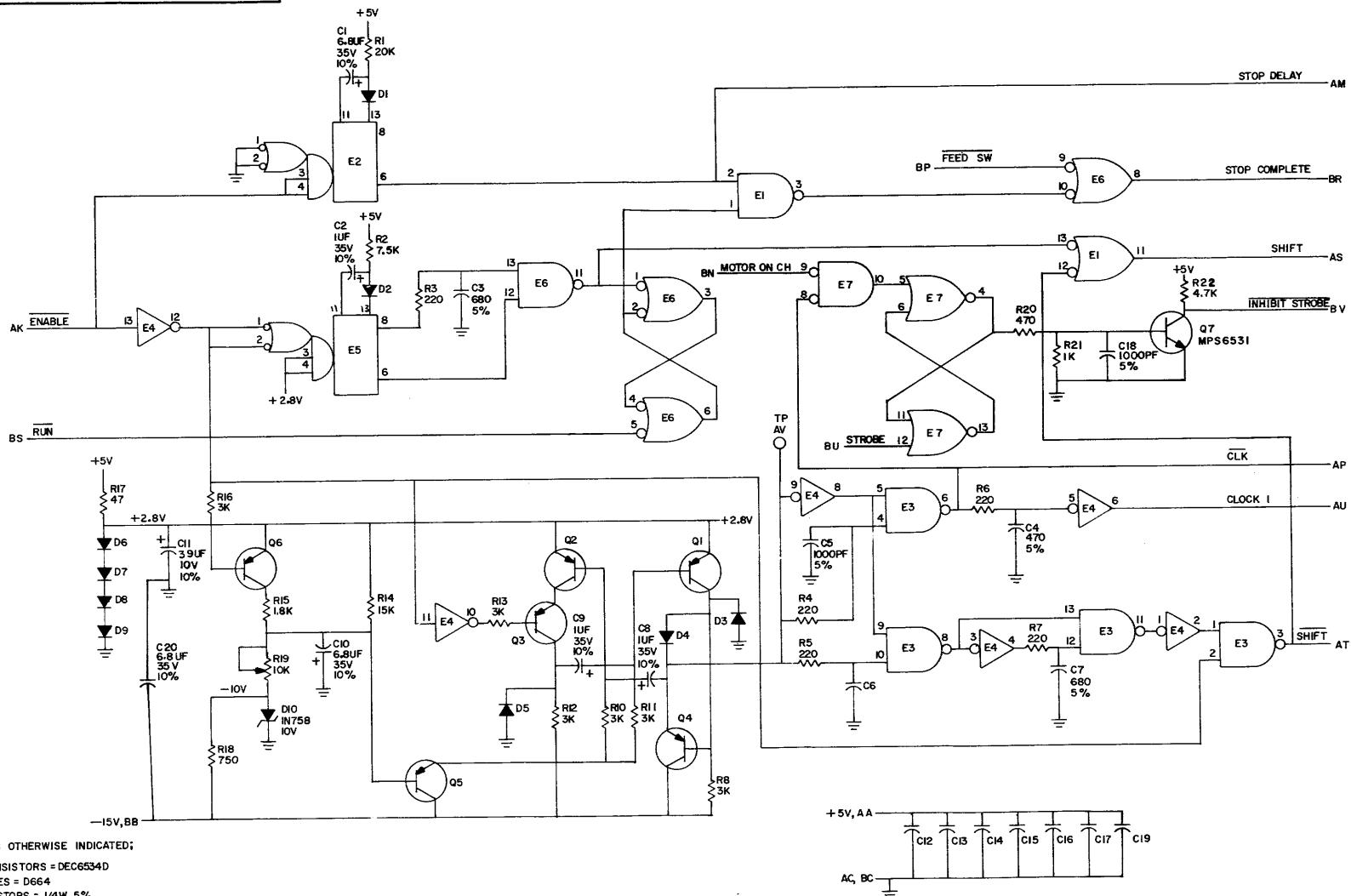


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REVISIONS			
CHX	CHG NO.	REV.	A

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SIZE CODE C CS NUMBER M715-O-I REV K

REVISIONS	CUM	CHG NO	REV	K
AY	00006			

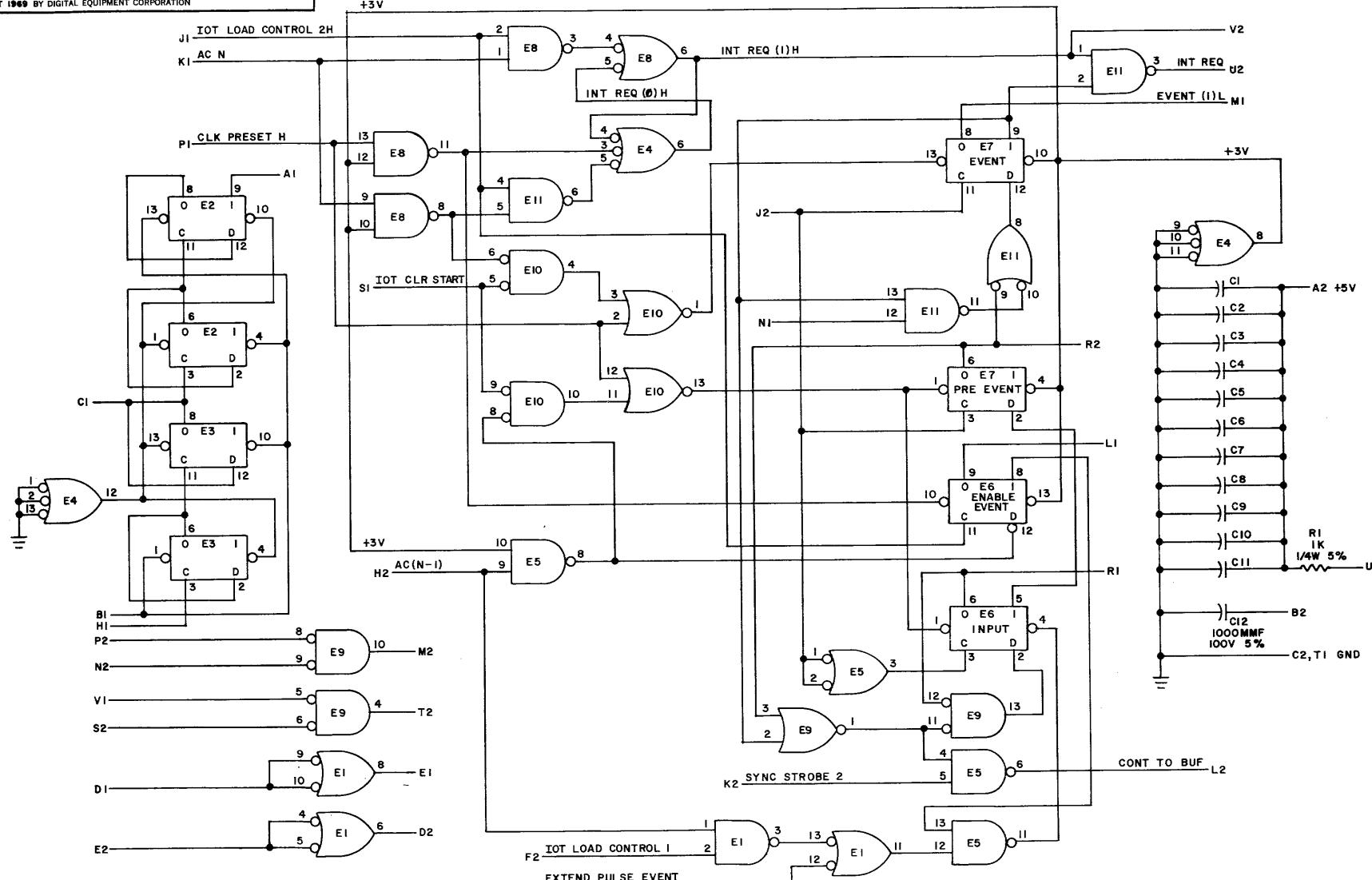
REV & REGR
A. CANCELS
ECO 00005

DEC FORM NO
DRC 102

DRN	M. HALLER	DATE	TRANSISTOR & DIODE CONVERSION CHART				TITLE
			DEC	EIA	DEC	EIA	
CHK'D	R. SILVERMAN	DATE 1/2/67	DEC6534D	MPS6534	IN758	SAME	digital
ENG.	R. G. SOGGE	DATE 1/2/67	D664	IN3606			EQUIPMENT CORPORATION
PROD		DATE	DEC6531	MPS6531			READER CLOCK M715

SIZE C CODE CS NUMBER M715-O-I REV K
PRINTED CIRCUIT REV E

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

REVISIONS
CHG NO./REV.

DRN: *m.waller* DATE: 4-9-69
CHK'D: *M.M.schone* DATE: 4-14-69
ENG: DATE: _____
PROD: DATE: _____

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

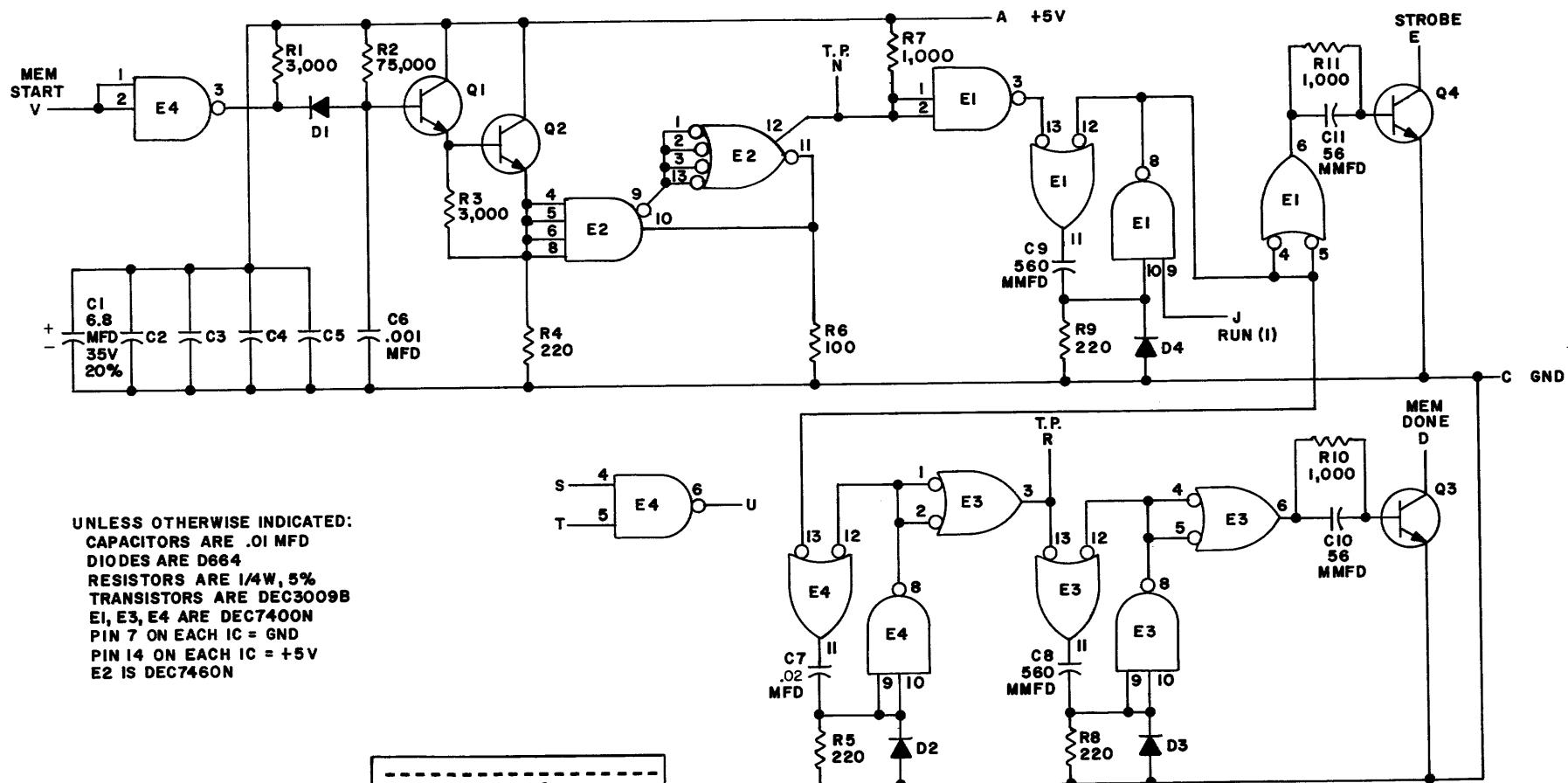
digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

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

REV: _____
SIZE CODE: M719-0-1 NUMBER: _____
C SIZE: C CS NUMBER: _____

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SIZE CODE M720-0-1
REV. A
B CS



REVISIONS	REV.
CHK	A
CHG NO.	
00001	
PROD.	

DEC FORM NO.
DRB 102

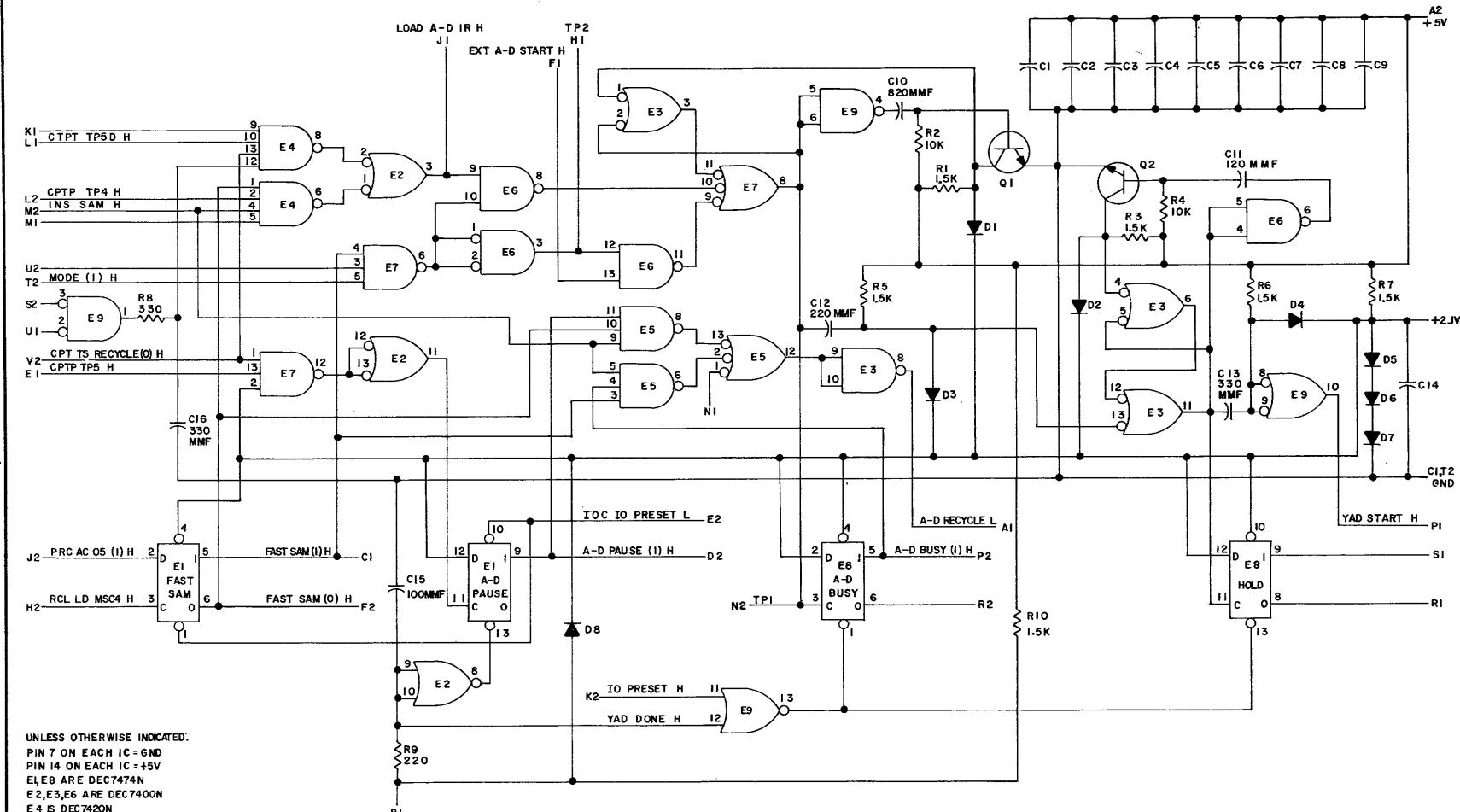
DRN. <i>m Heller</i>	DATE 9-28-67
CHK'D <i>K. Schuman</i>	DATE 12/16/67
ENG. <i>D. Gege</i>	DATE 9-18-67
PROD.	DATE

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

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
MEMORY DETECTION M720
SIZE CODE M720-0-1
REV. A
PRINTED CIRCUIT REV. A
DIST. 324, 434, 435³ PINK

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REVISIONS
REV. A
CIRC. NO.
DATE
COM.

DEC FORM NO.
DRC 102

DRN: *J. Blumenthal* DATE: *5-19-69*
CHKD: *R. J. Blumenthal* DATE: *2-20-69*
ENG: *R. Schugler* DATE: *7-10-69*
PROD:

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC64	IN3606		
DEC3009B	2N3009B		

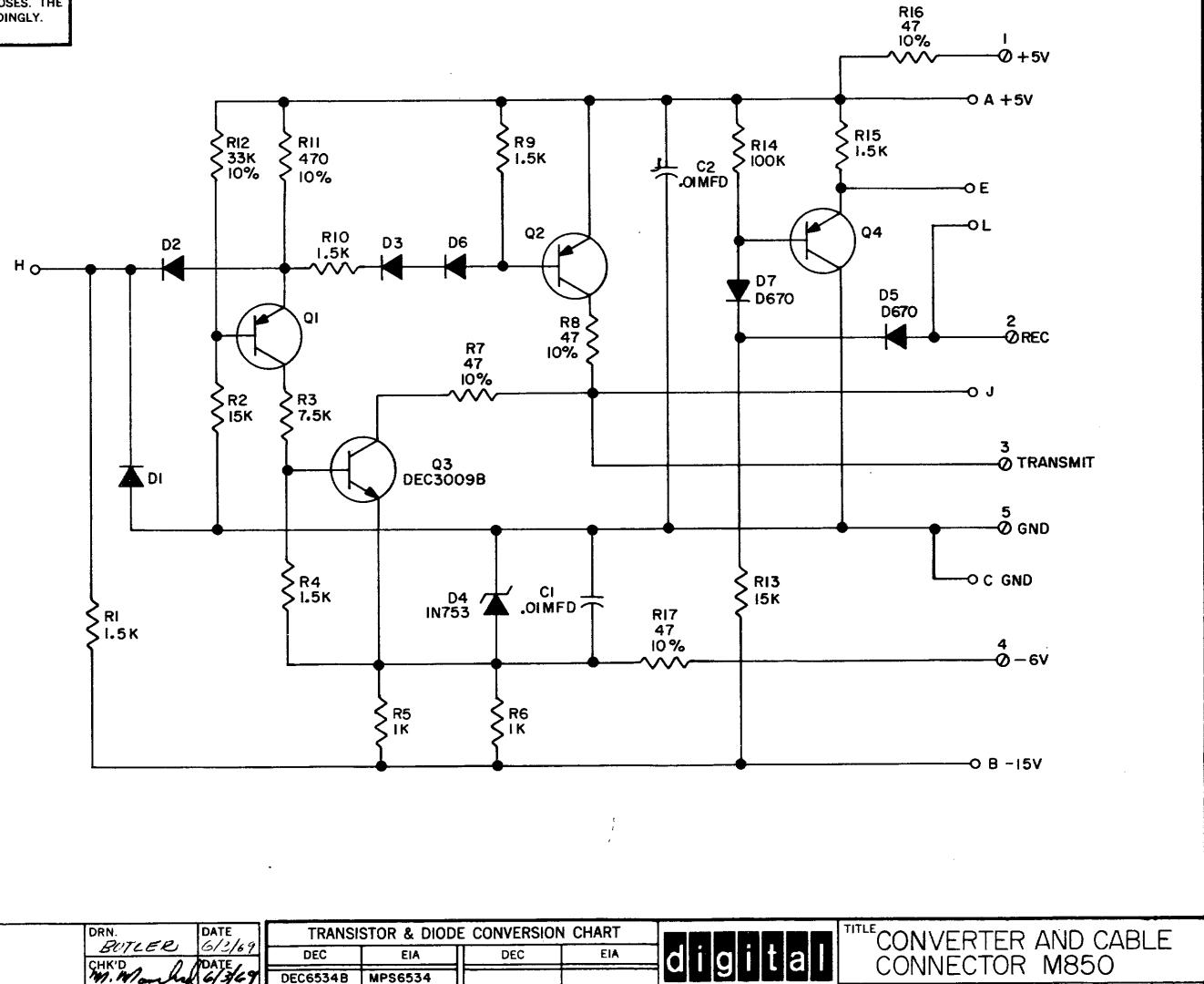
digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: A-D CONTROL
M760
SIZE: C CODE: NUMBER: M760-0-1
REV. CS
PRINTED CIRCUIT REV. A

SPEC. SHEET NO. 1
C CS M760-0-1
NUMBER 1
REV. 1

SIZE CODE CS NUMBER M850-O-1 REV. A

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REVISIONS	
CHK	CHG NO.
1	00001 A
2	00001 A
3	00001 A

DRN:	DATE
BUTLER	6/16/69
CHK'D	DATE
M. Marshall	6/16/69
ENG.	DATE
L. Van Pelt	6/16/69
PROD.	DATE
Y-10	6/16/69

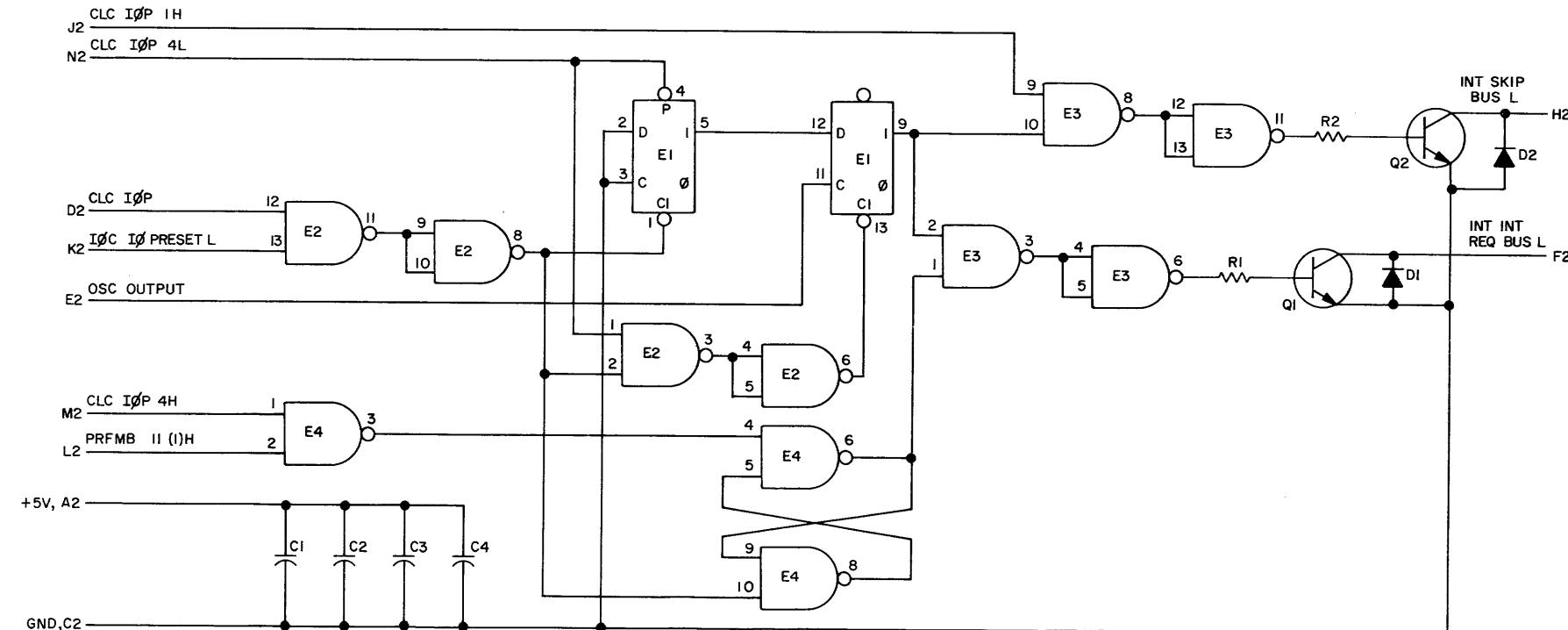
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC6534B	MPS6534		
DEC3009B	2N3009		
D664	IN3606		
D670	IN3653		

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: CONVERTER AND CABLE
CONNECTOR M850
SIZE CODE CS NUMBER M850-O-1 REV. A
PRINTED CIRCUIT REV. A

SIZE CODE B CS NUMBER M870-0-1 REV.

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UNLESS OTHERWISE INDICATED:
RESISTORS ARE 390, 1/4W, 5%
CAPACITORS ARE .01MF, 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

DRN	BUTLER	DATE
		1/19/70
CHK'D		DATE
	Y. Shatash	3-13-70
ENG		DATE
	S. Zeller	1/25/70
PROD		DATE
	Dwall	1/25/70

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DFC	EIA
D664	IN3606		
DEC3009B-S	2N3009B		

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
SIMPLE CLOCK M870

SIZE CODE B CS NUMBER M870-0-1 REV.

PRINTED CIRCUIT REV.

REVISIONS	CHK'D	CIRCUIT NO.	REV.

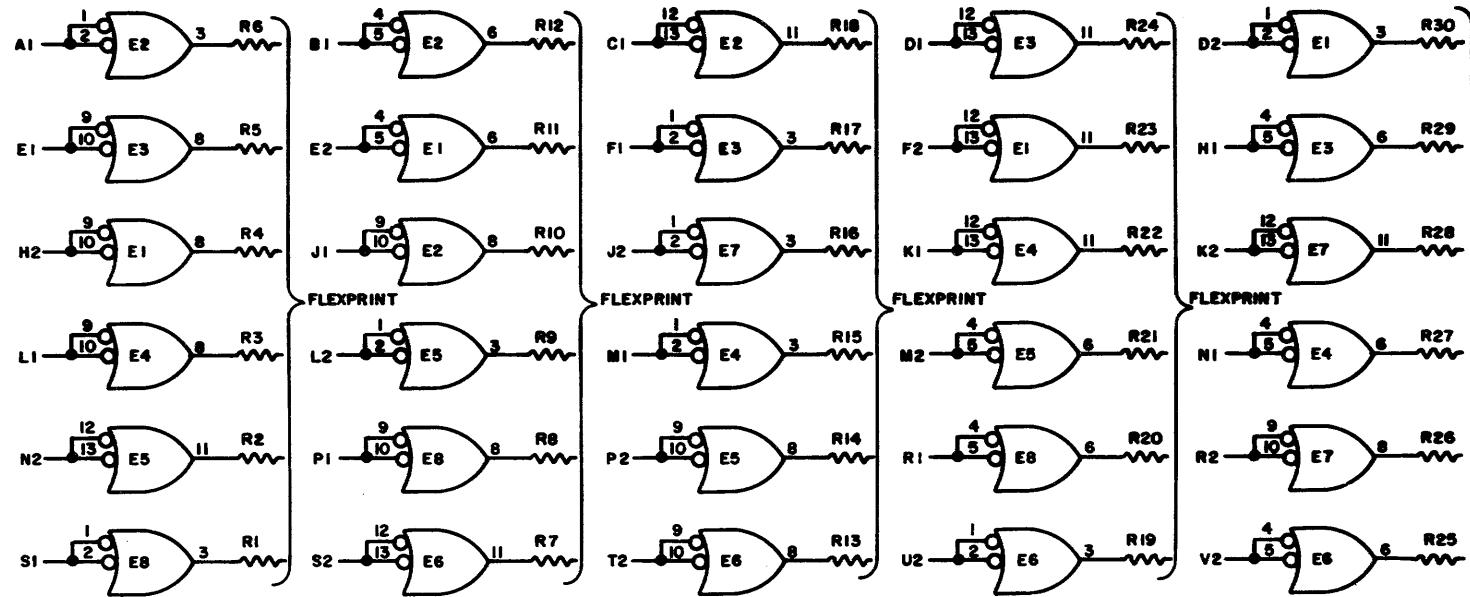
DEC FORM NO.
DRG 102

DIST: 324, 434, 435-3

5 PINK

↓ I-0-006W 50 8
A1 VSWR

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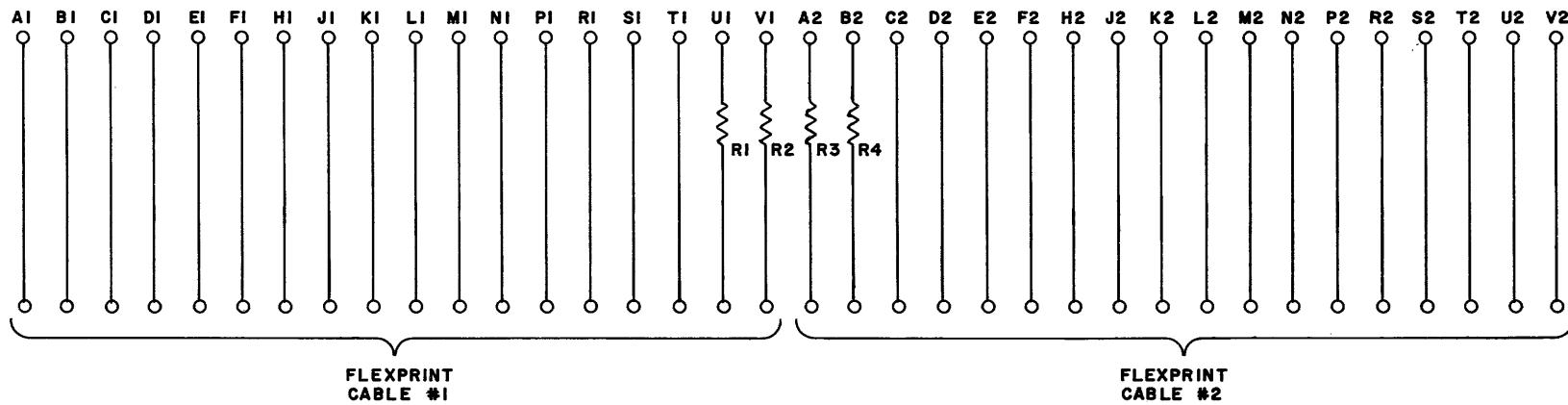
UNLESS OTHERWISE INDICATED:
IC'S ARE DECT400N
RESISTORS ARE 470, 1/4W, 10%
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V

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

REVISIONS	CHG	CHG NO.	REV.
	2	000001	A
	3	000002	B
	4	000003	C
	5	000004	D
	6	000005	E
	7	000006	F
	8	000007	G
	9	000008	H
	10	000009	I
	11	000010	J
	12	000011	K
	13	000012	L
	14	000013	M
	15	000014	N
	16	000015	O
	17	000016	P
	18	000017	Q
	19	000018	R
	20	000019	S
	21	000020	T
	22	000021	U
	23	000022	V
	24	000023	W
	25	000024	X
	26	000025	Y
	27	000026	Z
	28	000027	
	29	000028	
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	343	000342	

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

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RI - R4	RES. 10 1/4W 10% CC	I300170
REFERENCE DESIGNATION	PARTS LIST	A-PL-M901-0-0
	DESCRIPTION	PART NO.
	PARTS LIST	

DRN. <i>M. Waller</i>	DATE <i>8-19-68</i>
CHKD <i>J.W. Miller</i>	DATE <i>8-19-68</i>
ENG. <i>M. Waller</i>	DATE <i>11/5/68</i>
PROD.	DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

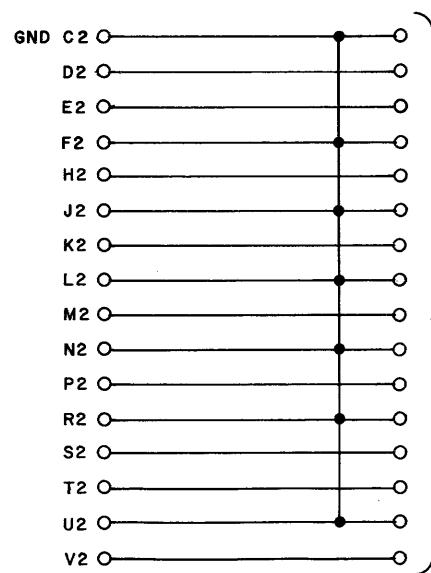
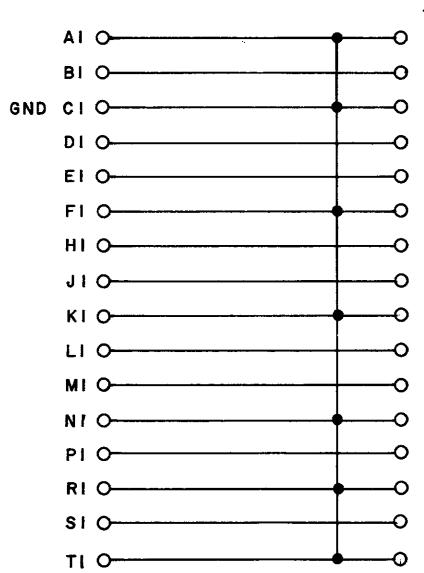
TITLE FLEXPRINT
CABLE CONNECTOR M901
SIZE CODE CS NUMBER M901-0-1 REV. C

PRINTED CIRCUIT REV. B/C

REVISIONS	CHK	CHE NO.	REV.
		00001	C
		2	

SIZE CODE M903-0-1
B CS REV.

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

REVISIONS	CHK	CRG NO.	REV.

DRN.	DATE
M. Waller	7-2-68
CHK'D	DATE
W. Waller	7-3-68
ENG.	DATE
J. O. Loughlin	7/12/68
PROD.	DATE

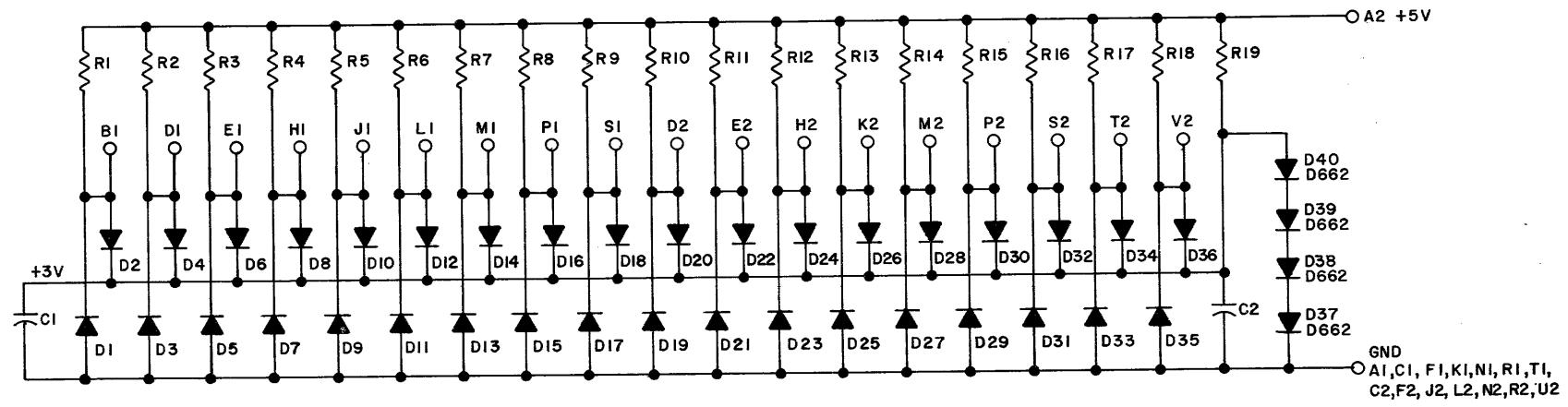
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital
EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE CONNECTOR
(FLEXPRINT) M903
SIZE CODE NUMBER
B CS M903-0-1 REV.
PRINTED CIRCUIT REV. A
DIST 324 434 435 PINK

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



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

REVISIONS	CHG NO.	REV.
	00001	B

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

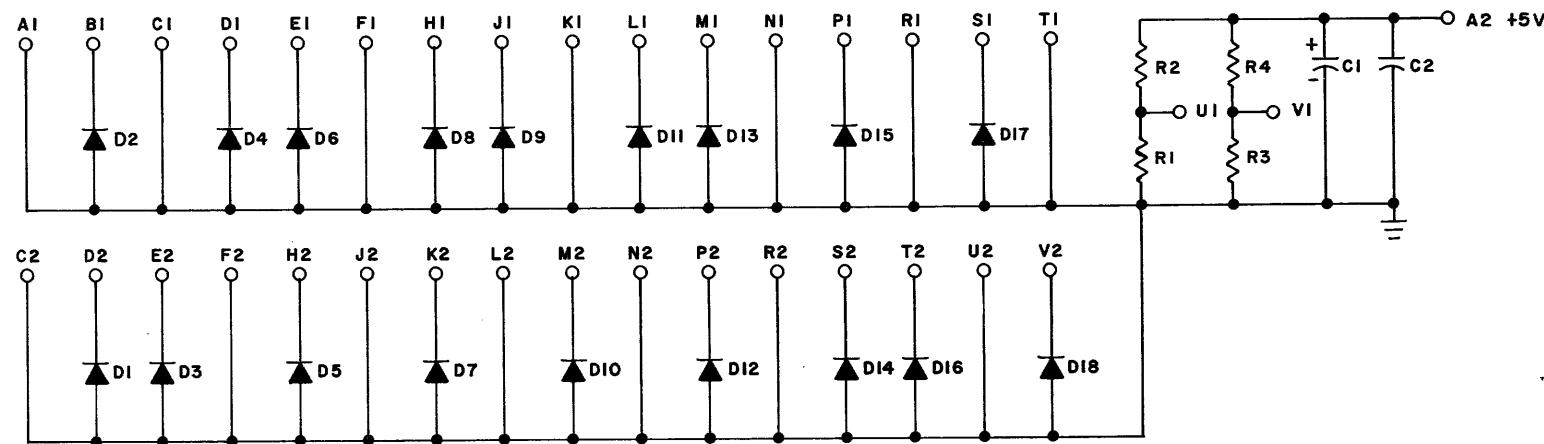
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D662	IN645		
D664	IN3606		

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

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

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

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REFERENCE DESIGNATION	DESCRIPTION	PART NO.
PARTS LIST		
DI-D18	DIODE D664	I100114
R2,R4	RES. 330 1/4W 5% CC	I300295
R1,R3	RES. 750 1/4W 5% CC	I301401
C1	CAP. 6.8 MFD 35V 20% STANT	I000067
C2	CAP. .01 MFD 100V 20% DISC	I001610
PARTS LIST		A-PL-M907-0-0

REVISIONS	DRN. <i>M. Keller</i>	DATE <i>8-9-68</i>
CHK'D	CHK'D <i>M. Keller</i>	DATE <i>8-9-68</i>
ENG.	ENG. <i>F. Toloughian</i>	DATE <i>9/4/68</i>
PROD.	PROD.	DATE

DEC FORM NO.
DRB 102

TRANSISTOR & DIODE CONVERSION CHART

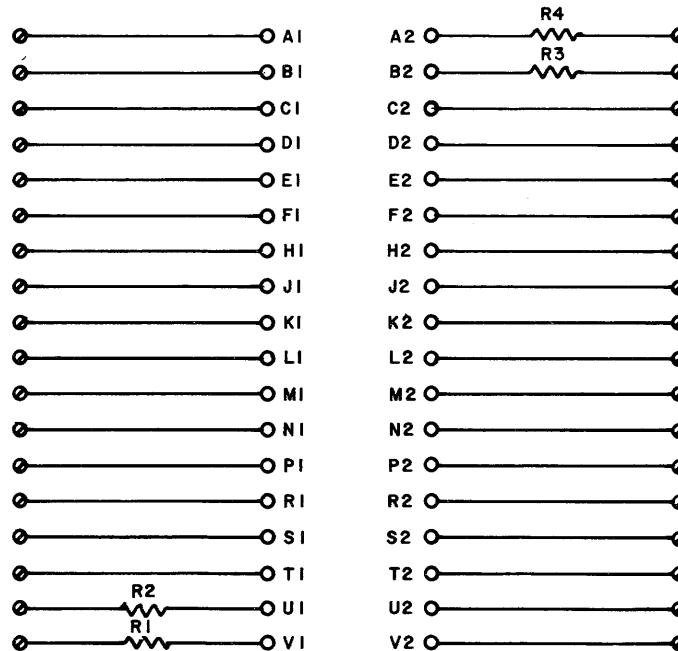
DEC	EIA	DEC	EIA
D664	IN3606		

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

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

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



④ SPLIT LUG

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
RI - R4	RES. 10 1/4 W 10% CC	I300170
PARTS LIST		
	PARTS LIST	A-PL-M908-0-0

REVISIONS	CHG	NO.	REV.

DRN. <i>m. Heller</i>	DATE 9-27-68
CHK'D <i>m. Heller</i>	DATE 9-27-68
ENG. <i>24-99</i>	DATE 11/5/68
PROD.	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

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

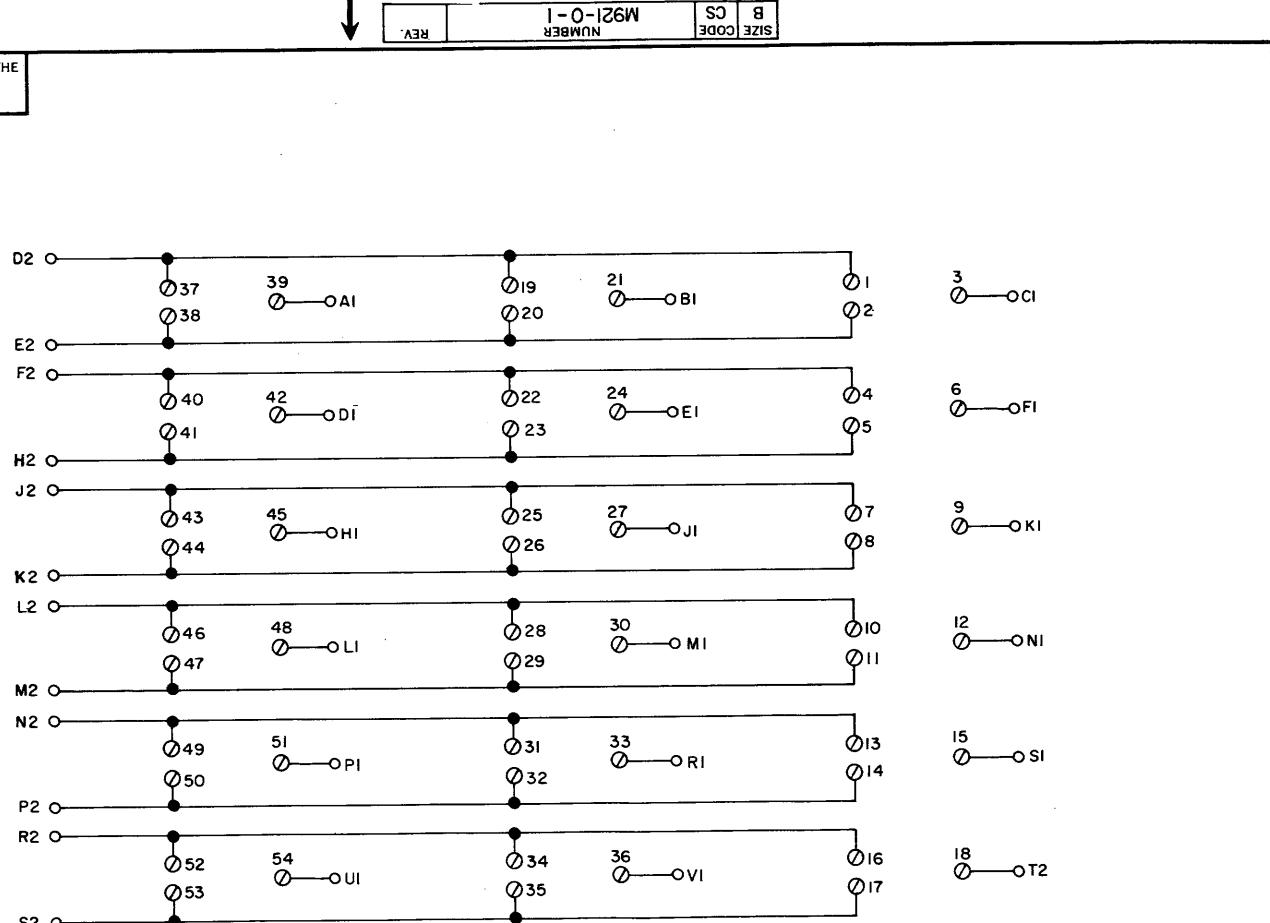
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PIN SIGNAL ASSIGNMENTS

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

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

UNLESS OTHERWISE INDICATED:
Ø ARE SPLIT LUGS



REVISIONS	CHG NO.	REV.

DRN.	BUTLER	DATE 1/16/65
CHK'D	<i>r. l. hawette</i>	DATE 2/26/65
ENG.	<i>J. Scarla</i>	DATE 9/29/65
PROD.		DATE

DIGITAL
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

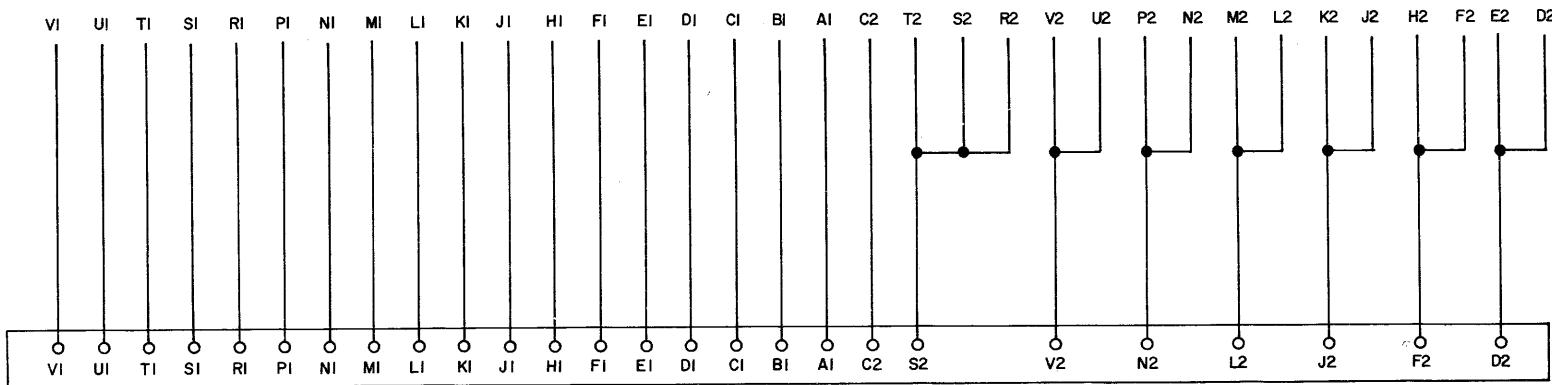
TITLE DEVICE CODE SELECT
JUMPER BOARD

SIZE	CODE	NUMBER	
B	CS	M921-0-1	

PRINTED CIRCUIT REV. B

SIZE CODE CS NUMBER M941-0-1 REV.

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CONNECTOR 7900-0155-0

REVISIONS	
CHK	CHG NO. REV.

DRN: <i>NANCY MOORE</i>	DATE: <i>4/14/70</i>
CHK'D: <i>S. Shetland</i>	DATE: <i>4/14/70</i>
ENG: <i>C. Luttinger</i>	DATE: <i>5/16/70</i>
PROD: <i>J. Johnson</i>	DATE: <i>5/27/70</i>

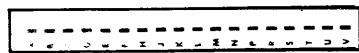
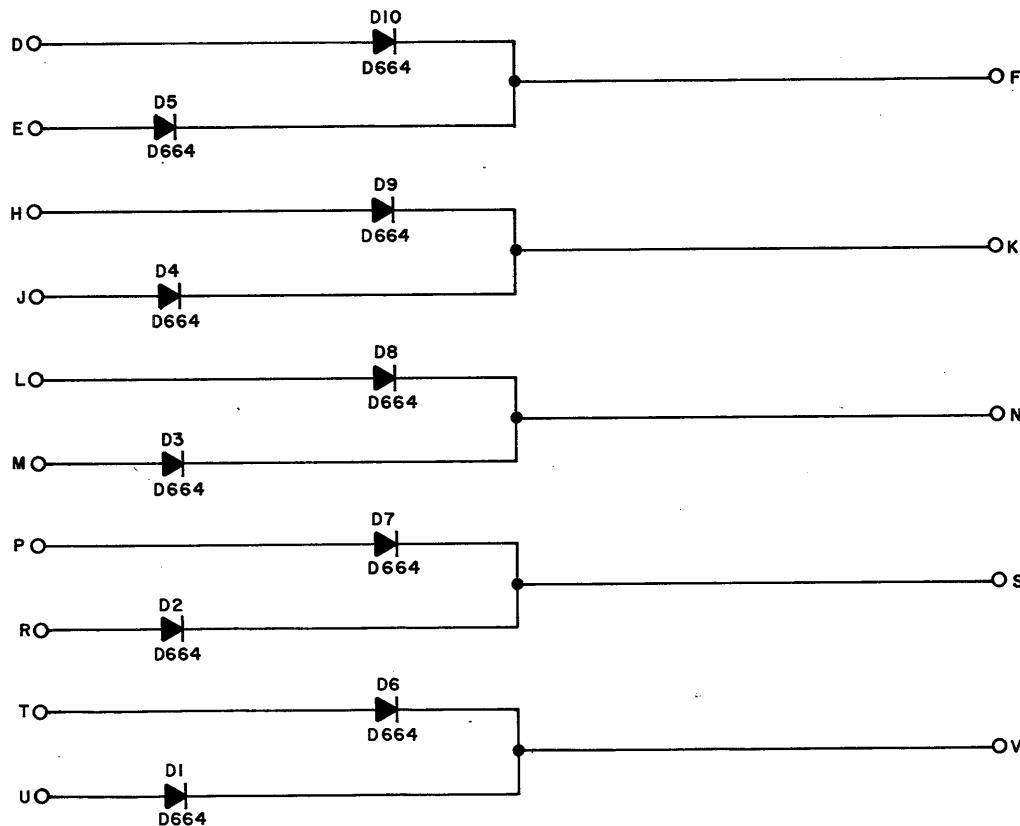
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE JUMPER/EXTENDER
BOARD M941
SIZE CODE CS NUMBER M941-0-1 REV.
PRINTED CIRCUIT REV. A

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

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DRN.	H. PORTER	DATE	5-21-64
CHK'D	N. PERRYMAN	DATE	5-25-64
ENG.	R. BANK	DATE	5-25-64
PROD.		DATE	

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D664	IN3606		

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
DIODE CLUSTER R002

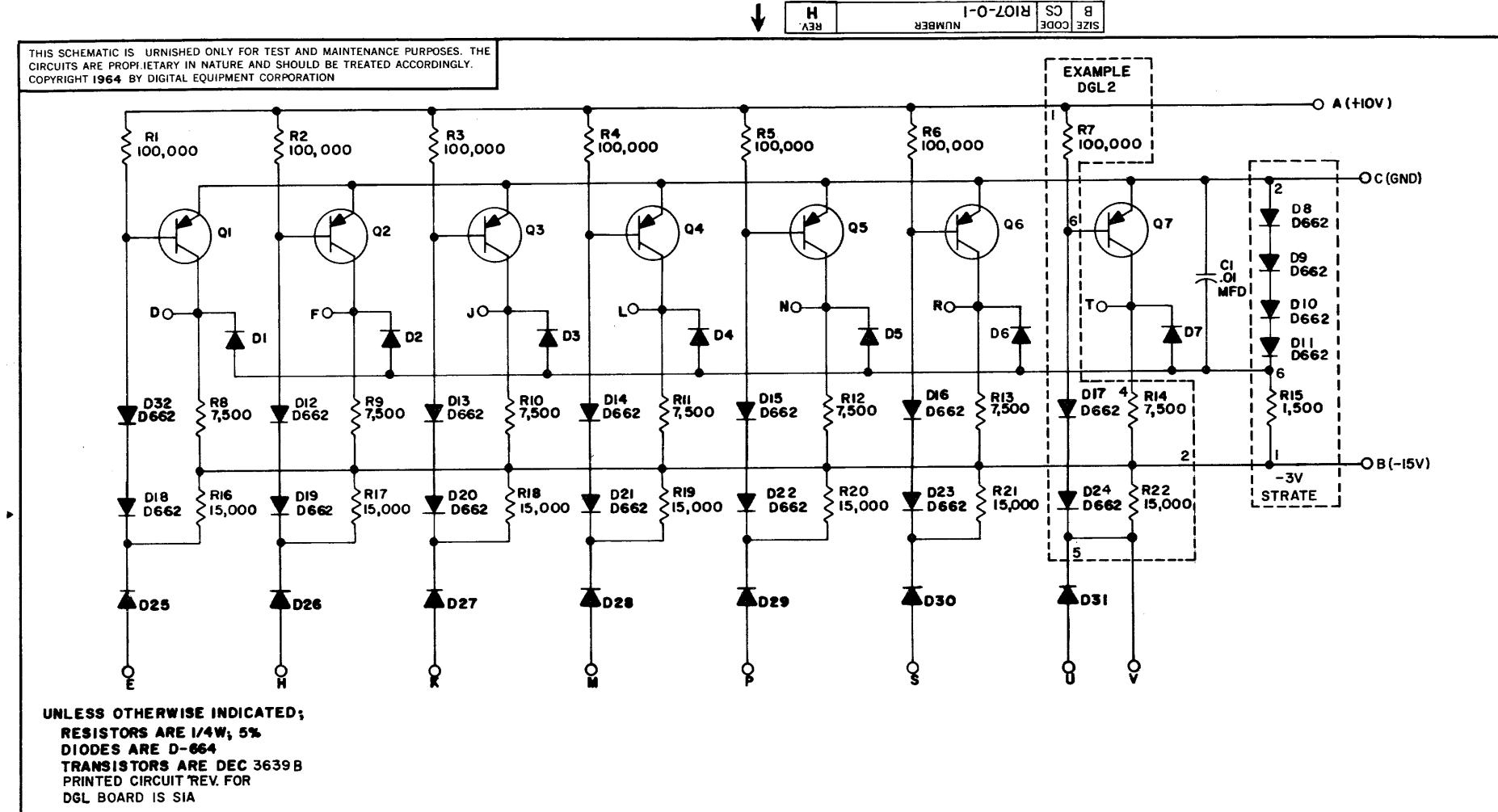
SIZE CODE CS R002-0-1 NUMBER

REV. A

PRINTED CIRCUIT REV. B

REVISIONS	CHK'D NO.	REV.
	6637	A

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REVISIONS		CHK	CHG NO.	REV		
CHK	CHG NO.	D	E	F	G	H
DEC	4863	-				
REV G	5377	D				
Drawn	5461					
Check	5685					
Prod	6539					

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

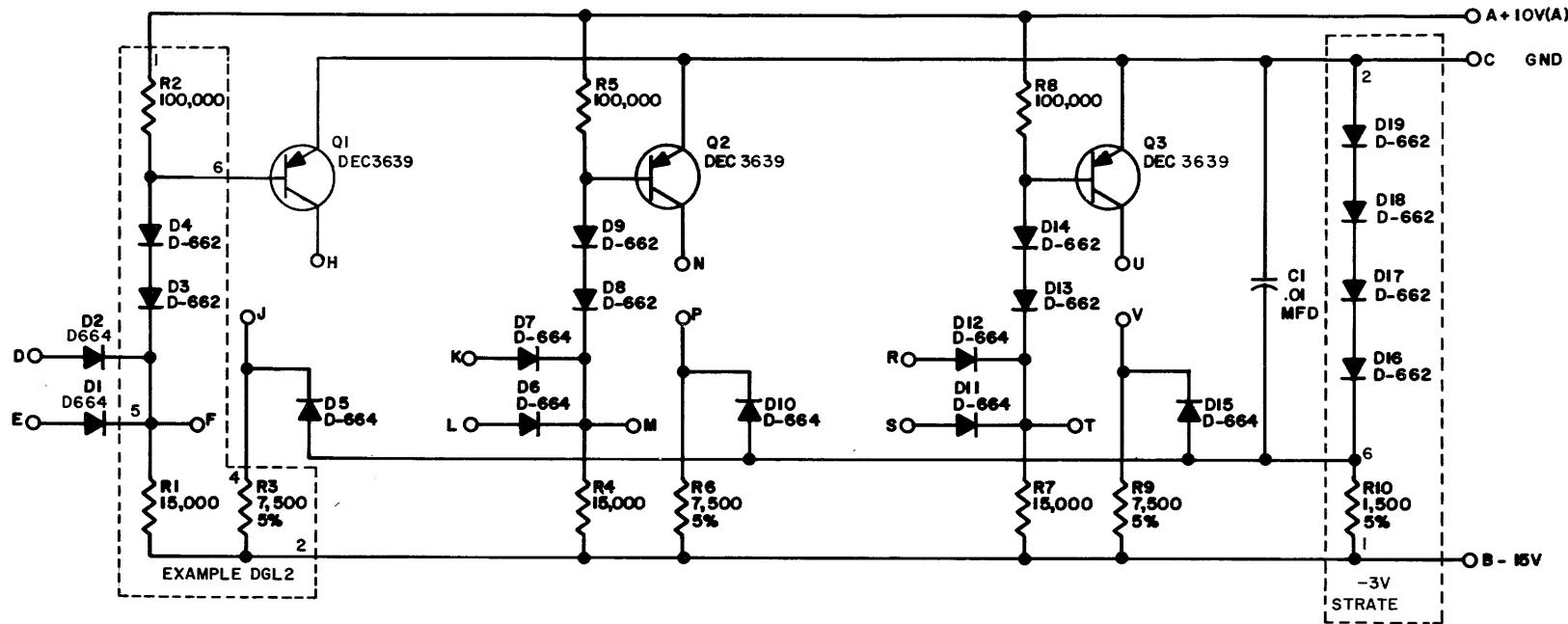
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC 3639B	2N3639		
D662	IN645		
D664	IN3606		

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

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

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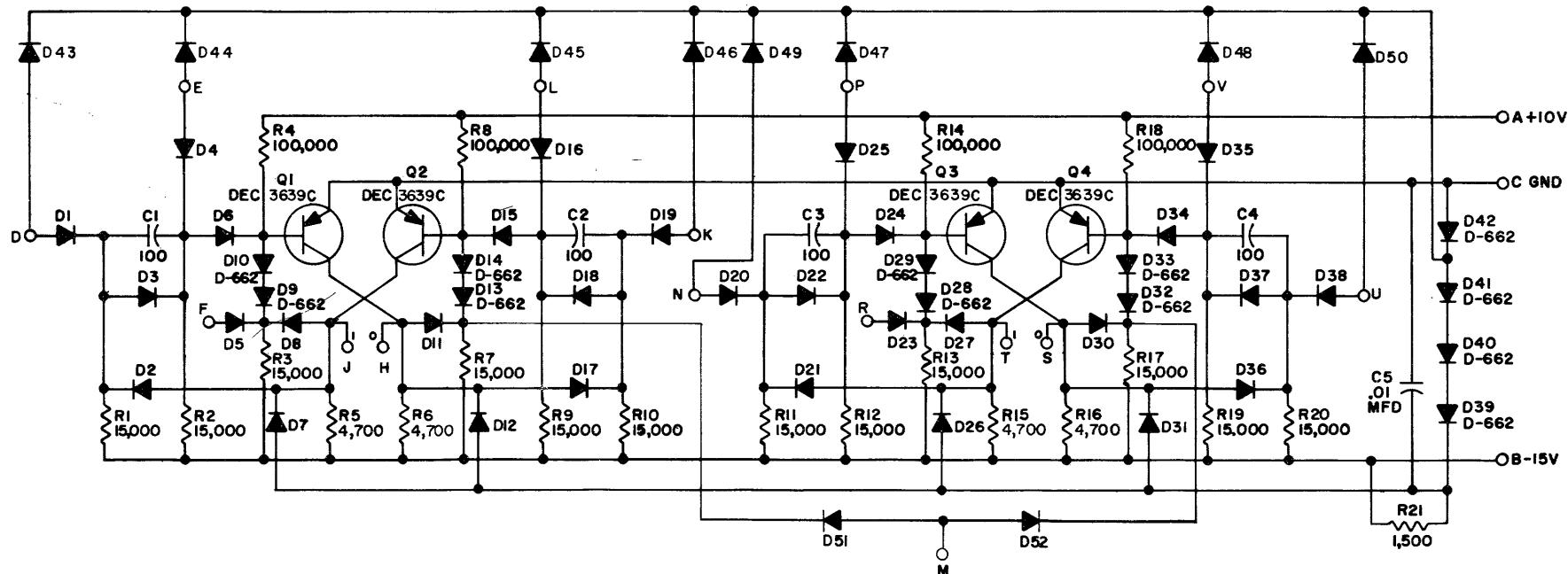
REV.	NUMBER	CS	CODE	SIZE
F	RILL-O-1			B



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

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

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



REVISIONS	
CHK	REV
CHG NO	4
RMS 6330	
REV A	REDR1
	F
2/26/64	6549

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

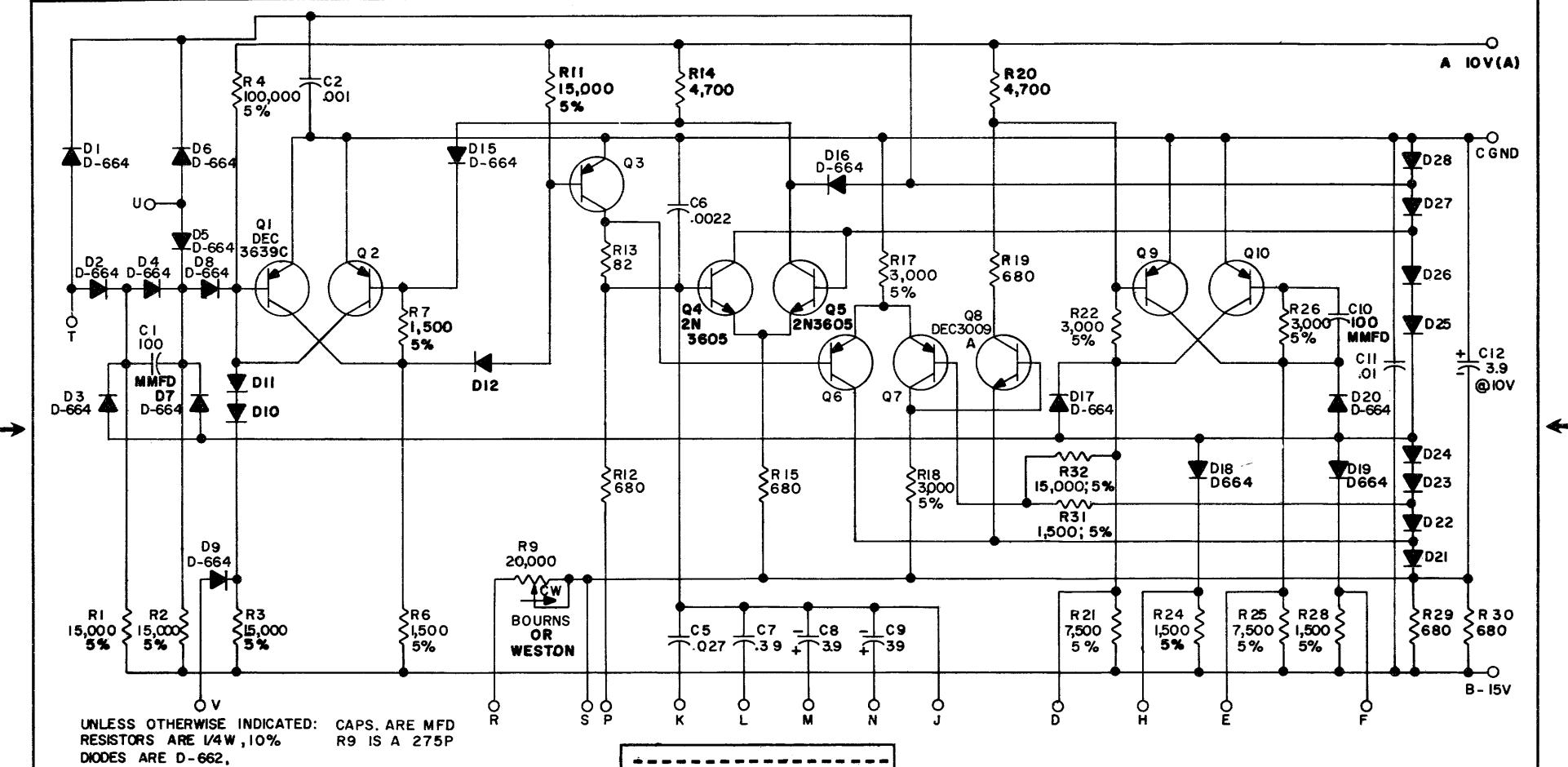
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3639C	2N3639		
D662	IN645		
D664	IN3606		

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

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

REV. K
SIZE CODE R303-0-1
NUMBER

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REVISIONS									
CHK	CHG NO.	REV.	A	B	C	D	E	F	G
DAW 5021	6528								
REV. G	6096								
	6173								
	6500								
	6669								
	6787								
	6897								

DEC FORM NO.
DRB 102

DRN.	DATE
L. HANN	4-5-65
R. SILVERMAN	4-16-65
ENG.	
R. DOANE	4-16-65
PROD.	
D662	IN645
D664	IN3606

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3639B	2N3639	DEC3639C	2N3639
DEC3009	2N3009		
2N3605	2N3605		
D662	IN645		
D664	IN3606		

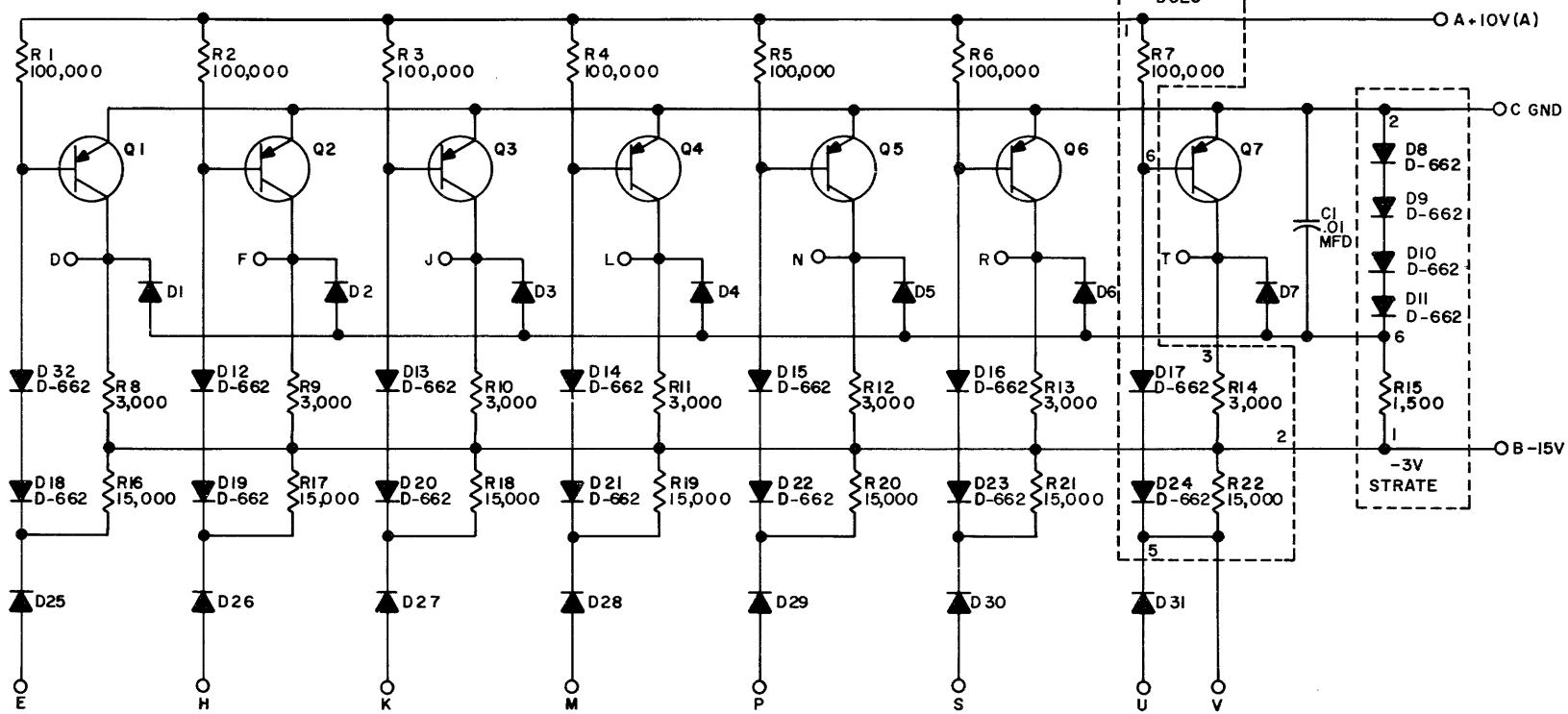


TITLE
INTEGRATING
ONE-SHOT R303
SIZE CODE R303-0-1
NUMBER
REV. K
PRINTED CIRCUIT REV. D

PINK DIST. 524 434 434

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

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RESISTORS ARE 1/4 W; 5%

DIODES ARE D-664

TRANSISTORS ARE DEC 3639B

PRINTED CIRCUIT REV FOR

DGL BOARD IS SIA

USE THE ETCHE BOARD OF THE RI07

PARTS LIST A-PL-SI07-C-0

REVISIONS	B	C	D
CHK NO			
REV B REPR	5458	6857	
REV C REPR	5384	6857	

DRN.	DATE
I HAHN	6-11-65
CHK'D	
R SILVERMAN	6-18-65
ENG	
R SOGGE	6-18-65
PROD.	

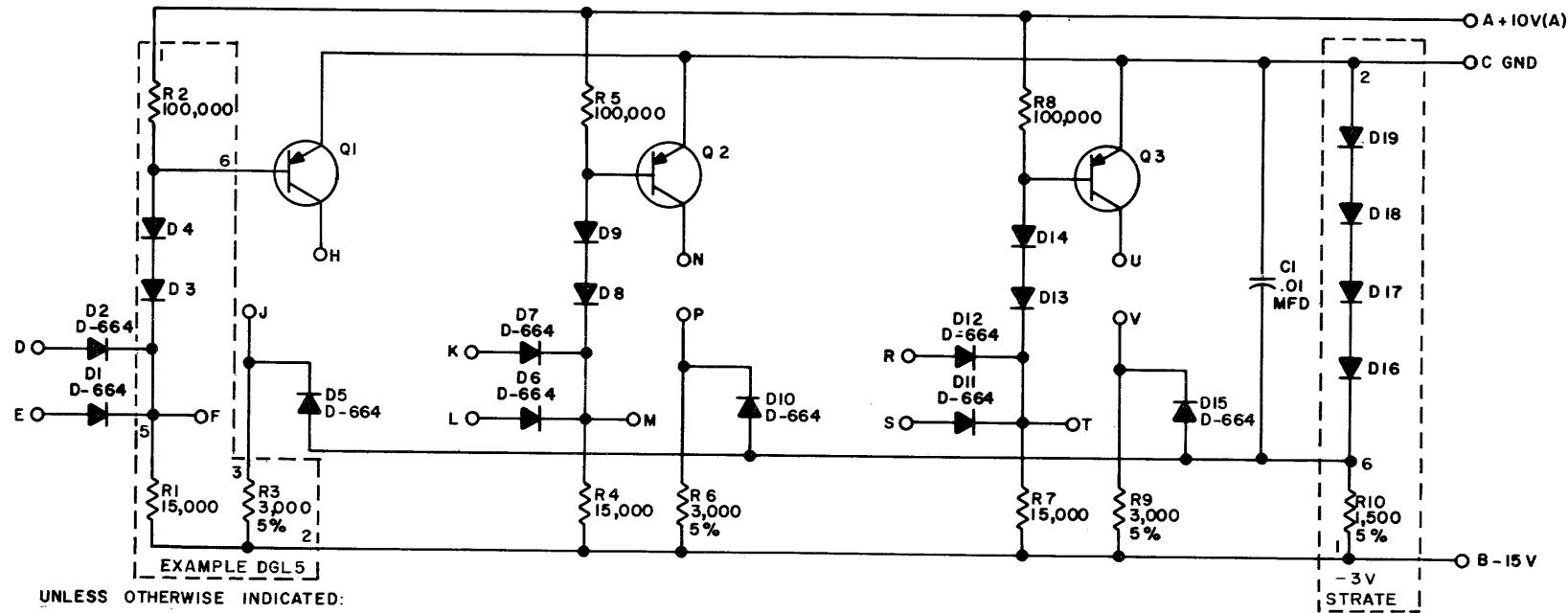
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC 3639B	2N3639		
D662	IN645		
D664	IN3606		

digital
EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE INVERTER SI07
SIZE B CS CODE NUMBER SI07-0-1 REV D
PRINTED CIRCUIT REV D

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SIZE B CODE SIII-O-1 NUMBER
C S REV D



USE THE ETCH BOARD OF THE RIII

REVISIONS	
CHK	CHG NO
REV	REV
B	D
5335	6750
75450	75450
C	D
6750	6750

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

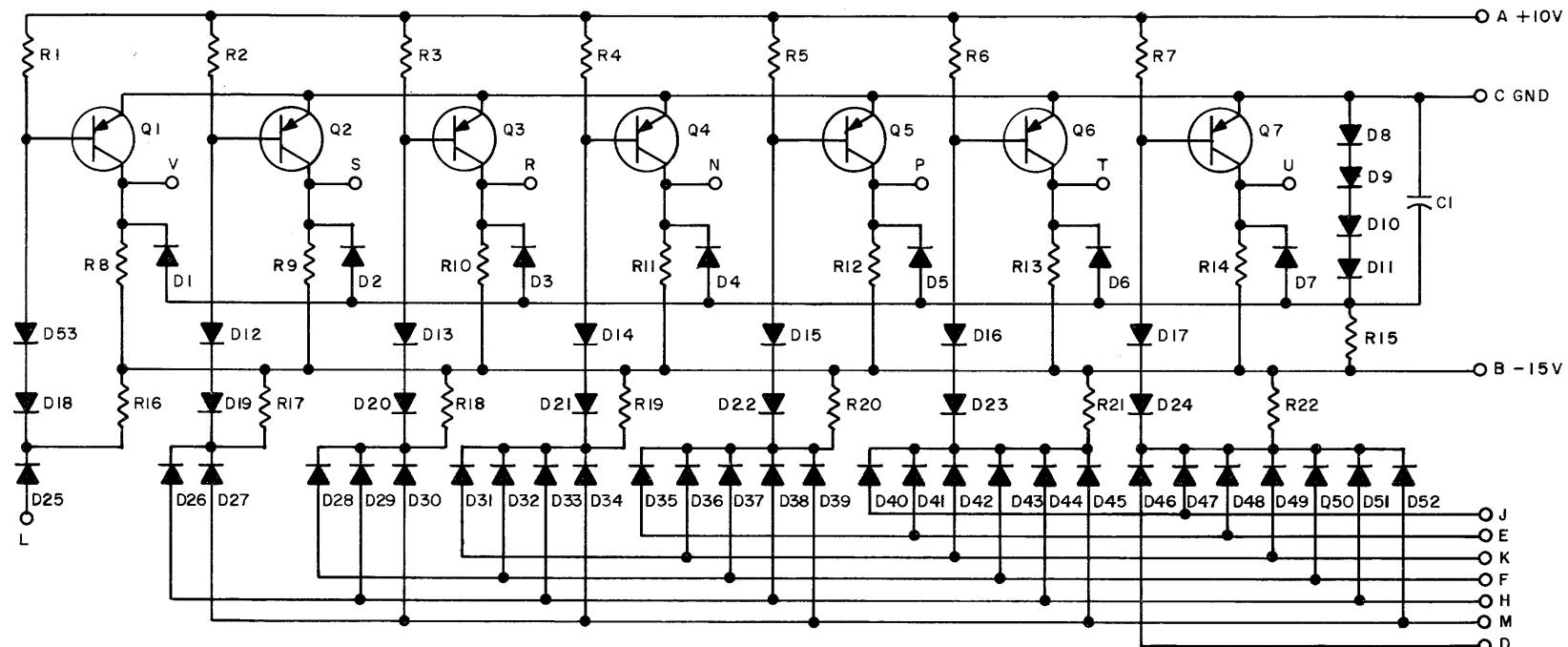
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3639	2N3639		
D662	IN645		
D664	IN3606		

digital
EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
DIODE GATE SIII
SIZE B CODE S III-O-1 NUMBER
REV. D
PRINTED CIRCUIT REV. D F

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



USE THE ETCH BOARD OF THE R181

Q1 THRU Q7	TRANSISTOR DEC3639B	I502762
R16 THRU R22	RES. 15K 1/4W 5%	I300496
R15	RES. 1.5K 1/4W 5% CC	I300391
R8 THRU R14	RES. 3K 1/4W 5% CC	I300432
R1 THRU R7	RES. 100K 1/4W 5% CC	I302466
DI THRU D7, D25 THRU D52	DIODE D664	I100114
D8 THRU D24, D53	DIODE D662	I100113
C1	CAP. .01MF 50V -0 +20% DISC	I000001
PARTS LIST		A-PL-S181-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.
PARTS LIST		

REVISIONS		CHK	CHG NO.	REV.
REV.	B	REDR.		A
/		6759		A

DEC FORM NO.
DRB 102

DRN.	D
I. HAHN	6
CHK'D	D
R. SILVERMAN	6
ENG.	D
R. SOGGE	6
PROD.	D

TRANSISTOR & DIODE CONVERSION CHART

	DEC	EIA	DEC	EIA
-65	DEC3639B	2N3639		
-65	D662	IN645		
-65	D664	IN3606		

The logo for Digital Equipment Corporation (DEC) features the word "digital" in a bold, lowercase, sans-serif font, with each letter enclosed in a separate black rectangular box. Below it, the words "EQUIPMENT" and "CORPORATION" are stacked in a smaller, uppercase, sans-serif font, also within black rectangular boxes. At the bottom, the word "MAYNARD, MASSACHUSETTS" is written in a smaller, all-caps, sans-serif font.

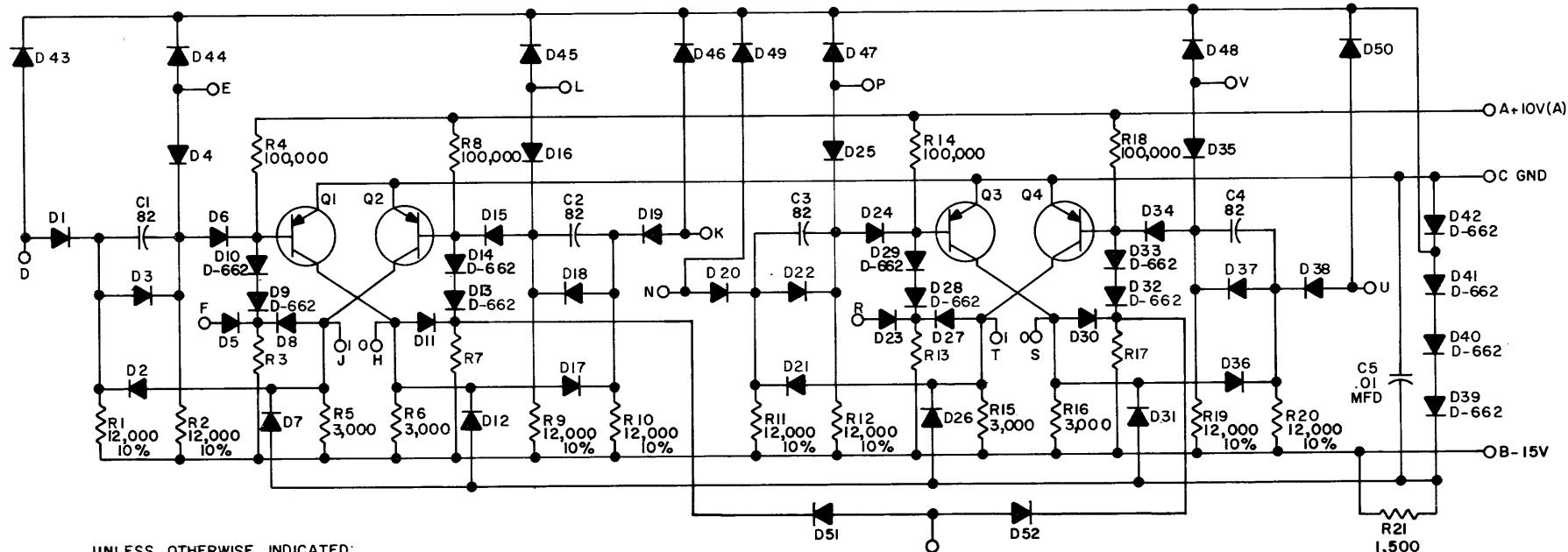
ITLE

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

DIST. 324 434 435

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

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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		CHK	C/HG NO.	REV	DAW	REV	GRD/R	B	C	D
CHK	C/HG NO.									
CHK 4944	-	5469	8433	C	6683	D				
REV 4944										
CHK'D										
ENG.										
PROD.										

DRN.	DATE
I.HAHN	6-15-65
CHK'D	DATE
R. SILVERMAN	6-18-65
ENG.	DATE
R. SOGGE	6-18-65
PROD.	DATE

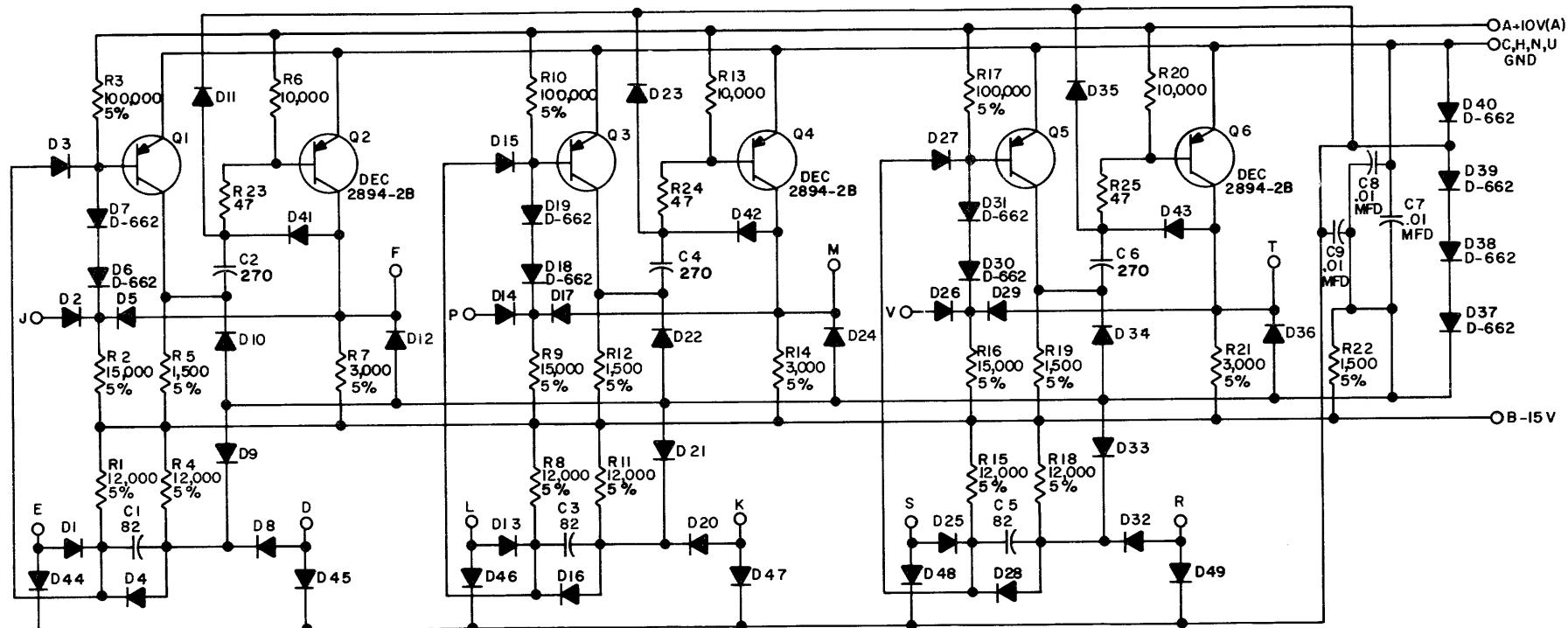
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC 3639C	2N3639		
D662	IN645		
D664	IN3606		

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
DUAL FLIP-FLOP S202
SIZE CODE NUMBER
B CS S202-0-1
REV. D
PRINTED CIRCUIT REV. D E

REV. E
SIZE CODE S603-0-1
NUMBER

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UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4 W; 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	CHK CHG NO.	REV.
	5223	2
REV B REQR.	0	E
REV C REQR.	5371	D
REV D REQR.	5371	C
REV E REQR.	5371	B
REV F REQR.	5371	A

DEC FORM NO.
DRB 102

DRN.	I HAHN	DATE
CHK'D		6-14-65
R SILVERMAN		6-18-65
ENG		DATE
R. SOGGE		6-18-65
PROD		DATE

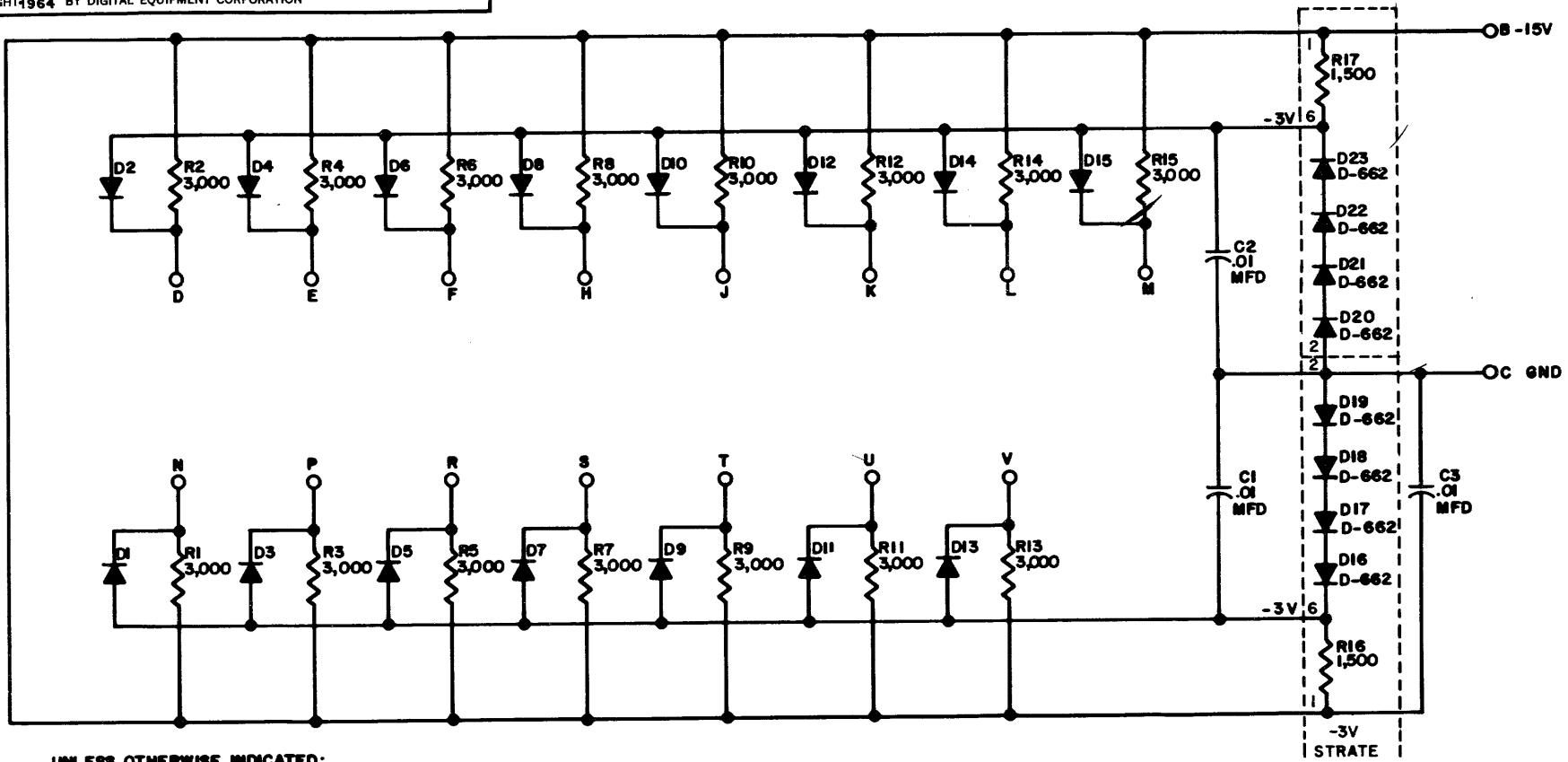
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC 2894-2B	NONE		
DEC 3639C	2N3639		
D662	IN645		
D664	IN3606		

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
PULSE AMPLIFIER S603
SIZE CODE S603-0-1 REV. E
PRINTED CIRCUIT REV. D
DIST. 324 434 435²

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

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UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 5%
DIODES ARE D-662

REVISIONS	
CHK CHG NO.	REV. B
DRAW NO.	5037
REV. B REDR.	5397
PROD.	DATE

DRN. H. PORTER	DATE 4-27-64
CHK'D N. PERRYMAN	DATE 5-4-64
ENG. B. SCUDNEY	DATE 5-4-64
PROD.	DATE

TRANSISTOR & DIODE CONVERSION CHART

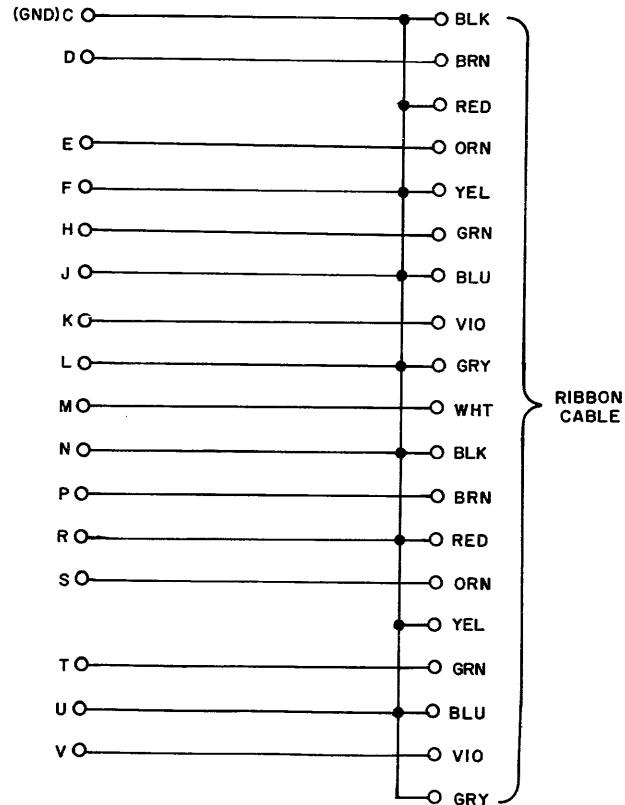
DEC	EIA	DEC	EIA
D662	IN645		
D664	IN3606		

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
CLAMPED LOADS W005

SIZE CODE NUMBER
B CS W005-0-1
REV. B
PRINTED CIRCUIT REV. B

RS-B-W02I-1



TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

NOTES

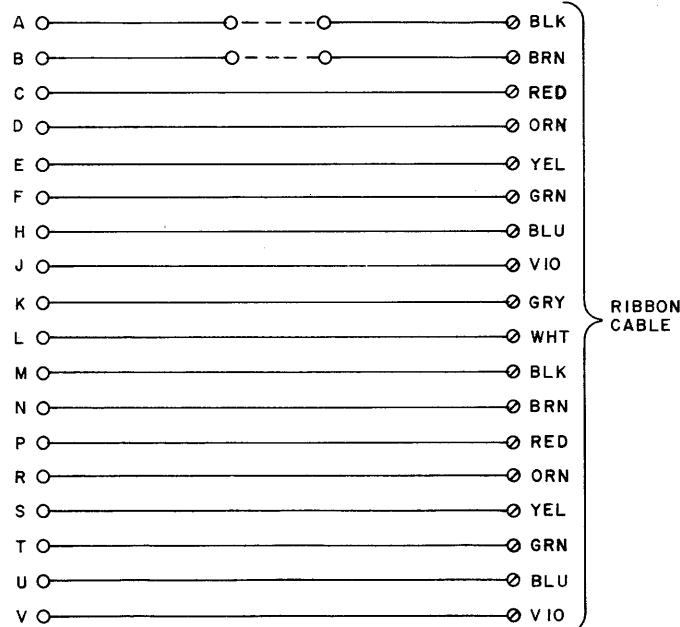
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A, B	RS-B-W02I	I
SIGNAL CABLE CONNECTOR W02I		

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SIZE CODE B CS W023-0-1 NUMBER REV.



NOTE:
 O ARE SPLIT LUGS

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

REVISIONS	
CHK CHG NO. REV.	

DRN. <i>M. Waller</i>	DATE 10-16-68
CHK'D <i>M. Waller</i>	DATE 10-18-68
ENG. <i>J. Gandy</i>	DATE 11-12-68
PROD.	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

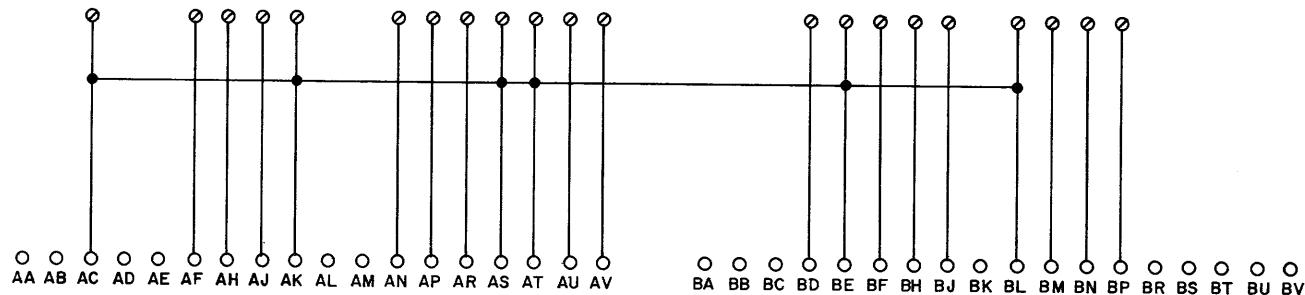
digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
CONNECTOR W023
SIZE CODE B CS W023-0-1 NUMBER REV.
PRINTED CIRCUIT REV. A

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SIZE CODE W032-0-1
NUMBER REV.

5 CABLES OF 3 CONDUCTOR
SHIELDED COAXIAL CABLE



NOTE:
Ø ARE SPLIT LUGS

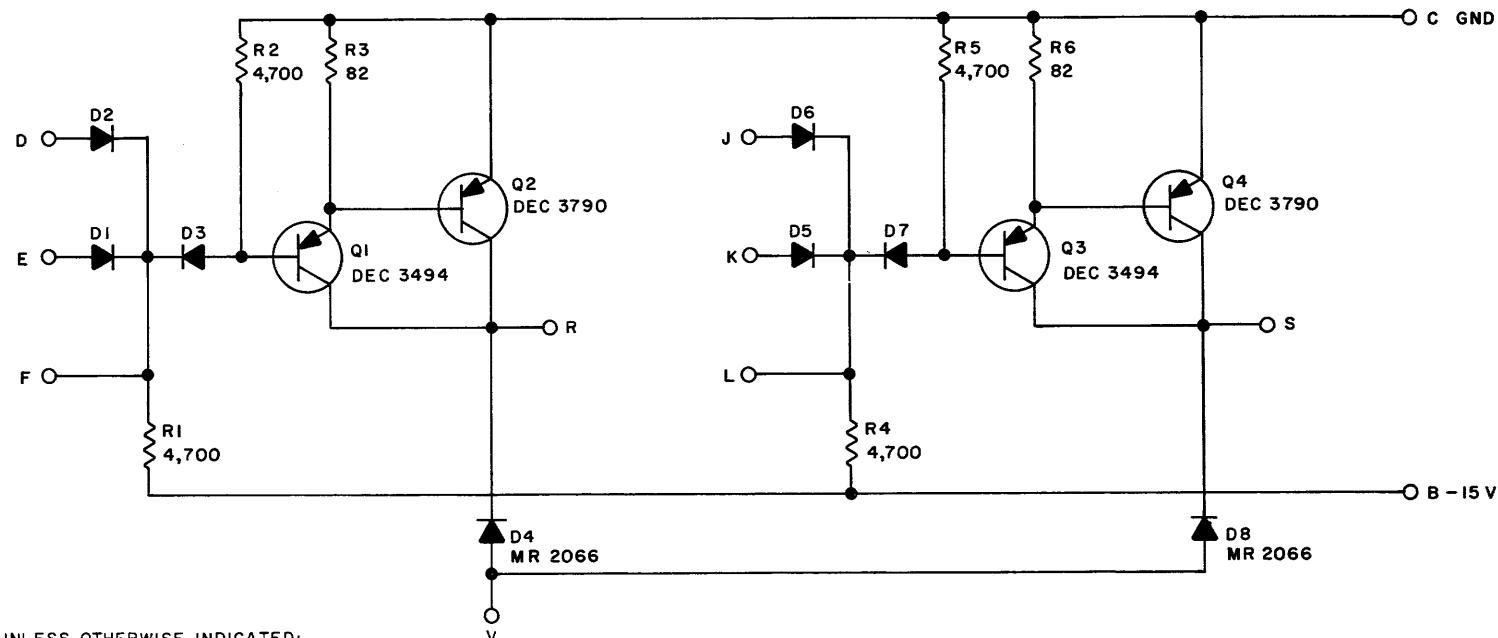
PARTS LIST IS A-PL-W032-0-0

REVISIONS CHK CHG NO. REV.	DRN. <i>m. Kaller</i> DATE 10-16-68	CHK'D <i>John J. Kelly</i> DATE 10-17-68	ENGR. <i>J. J. Kelly</i> DATE 11-12-68	PROD. DATE	TRANSISTOR & DIODE CONVERSION CHART	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE CONNECTOR W032
					DEC EIA DEC EIA		SIZE CODE W032-0-1 REV.
							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	IN645		
MR 2066	IN4003		

NOTES

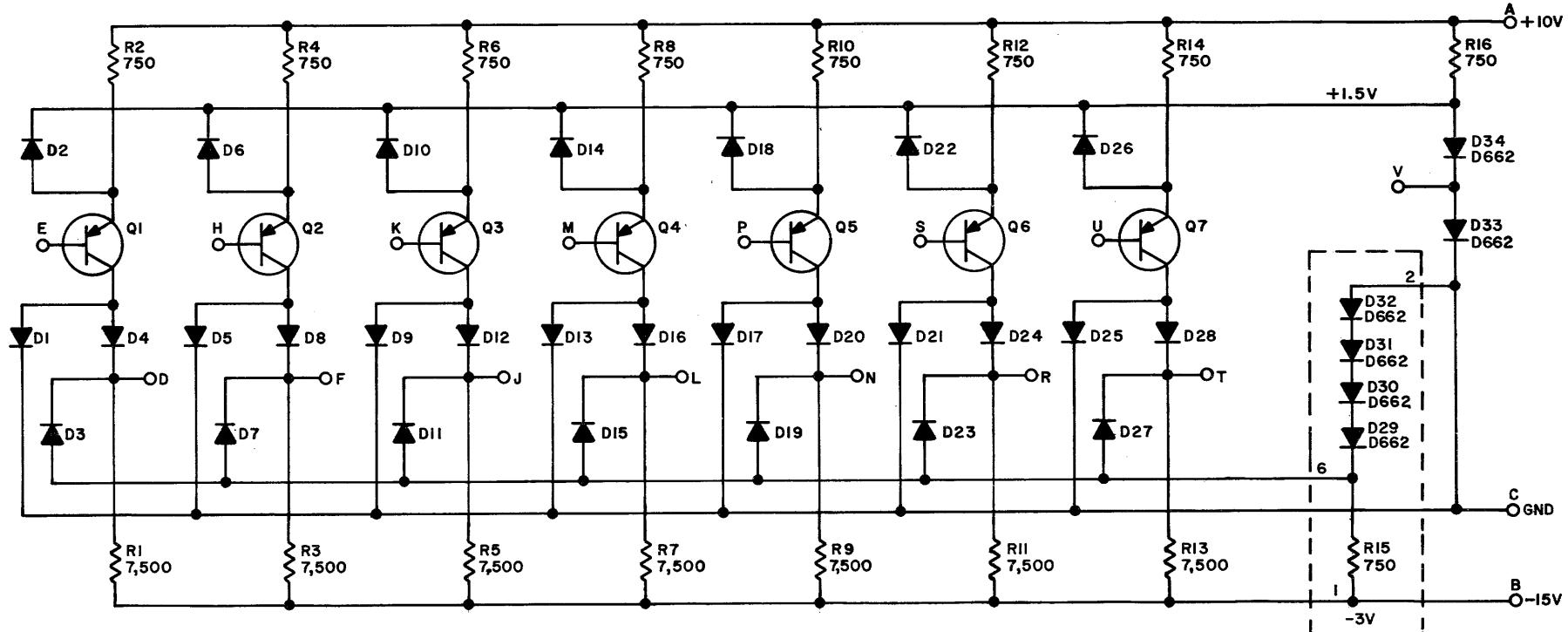
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BASIC LOGIC SYMBOLS		
B	RS-B-W040	2
	SOLENOID DRIVER W040	

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

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

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

REVISIONS	CHK	CHG NO.	REV.
	✓	6088	B
	✓	6169	
	✓	6169	

DRN	DATE
<i>M. S. S.</i>	<i>5/16/66</i>
CHK'D	DATE
<i>R. Doane</i>	<i>5/16/66</i>
ENG.	DATE
<i>R. Doane</i>	<i>5/16/66</i>
PROD.	DATE

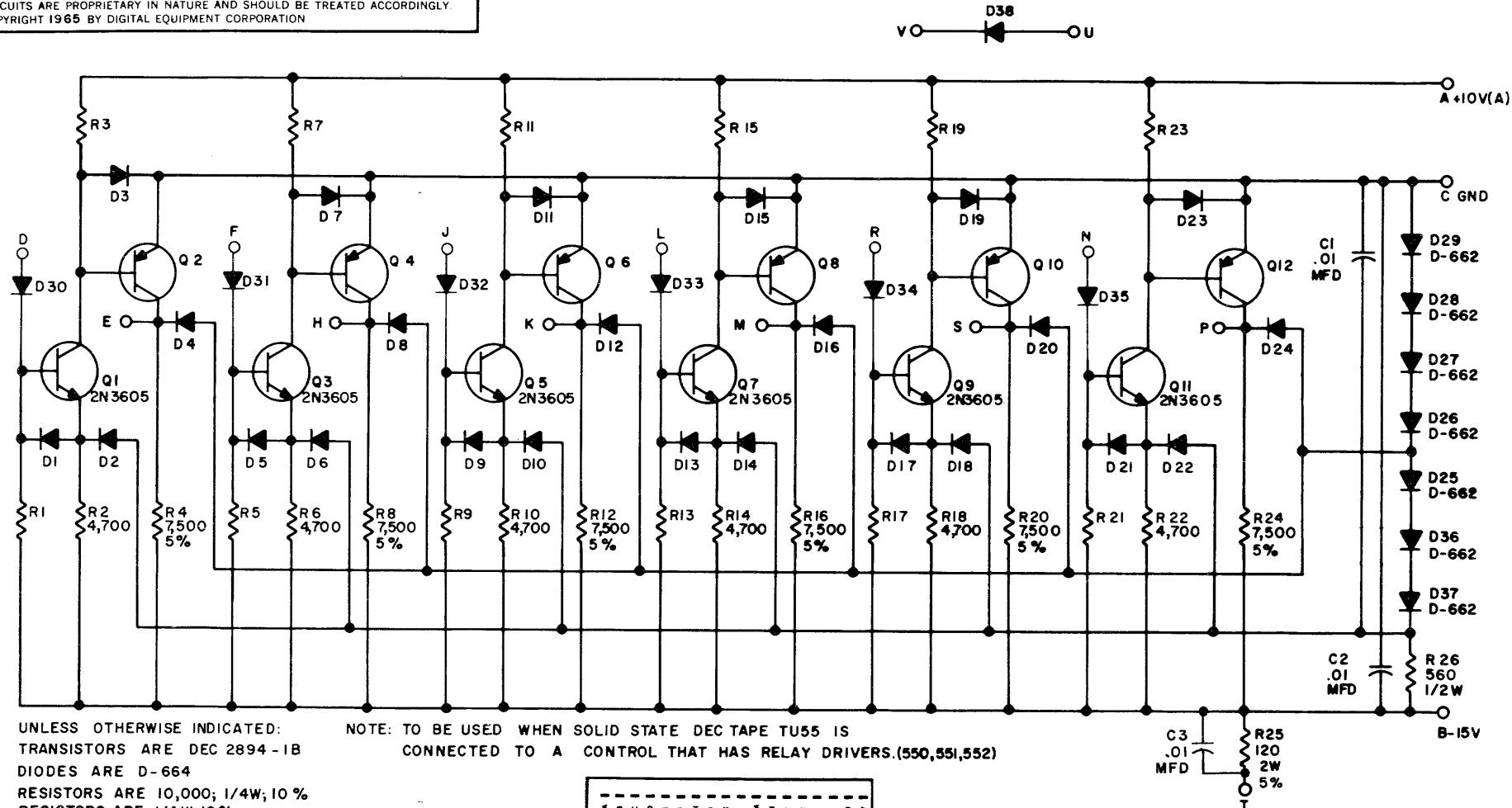
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3639B	2N3639		
D662	IN645		
D664	IN3606		

digital
EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE POSITIVE LEVEL
CONVERTER W512
SIZE CODE CS W512-0-1
REV. B
PRINTED CIRCUIT REV. A

REV E
SIZE CODE W513-0-1
NUMBER

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REVISIONS	CHK	CHG NO.	REV
		52.82	4
		5727	E
		574	

DEC FORM NO.

DRN	DATE
I. HAHN	5-27-65
CHK'D R. SILVERMAN	DATE 6-4-65
ENG D. WARDIMON	DATE 6-5-65
PROD	DATE

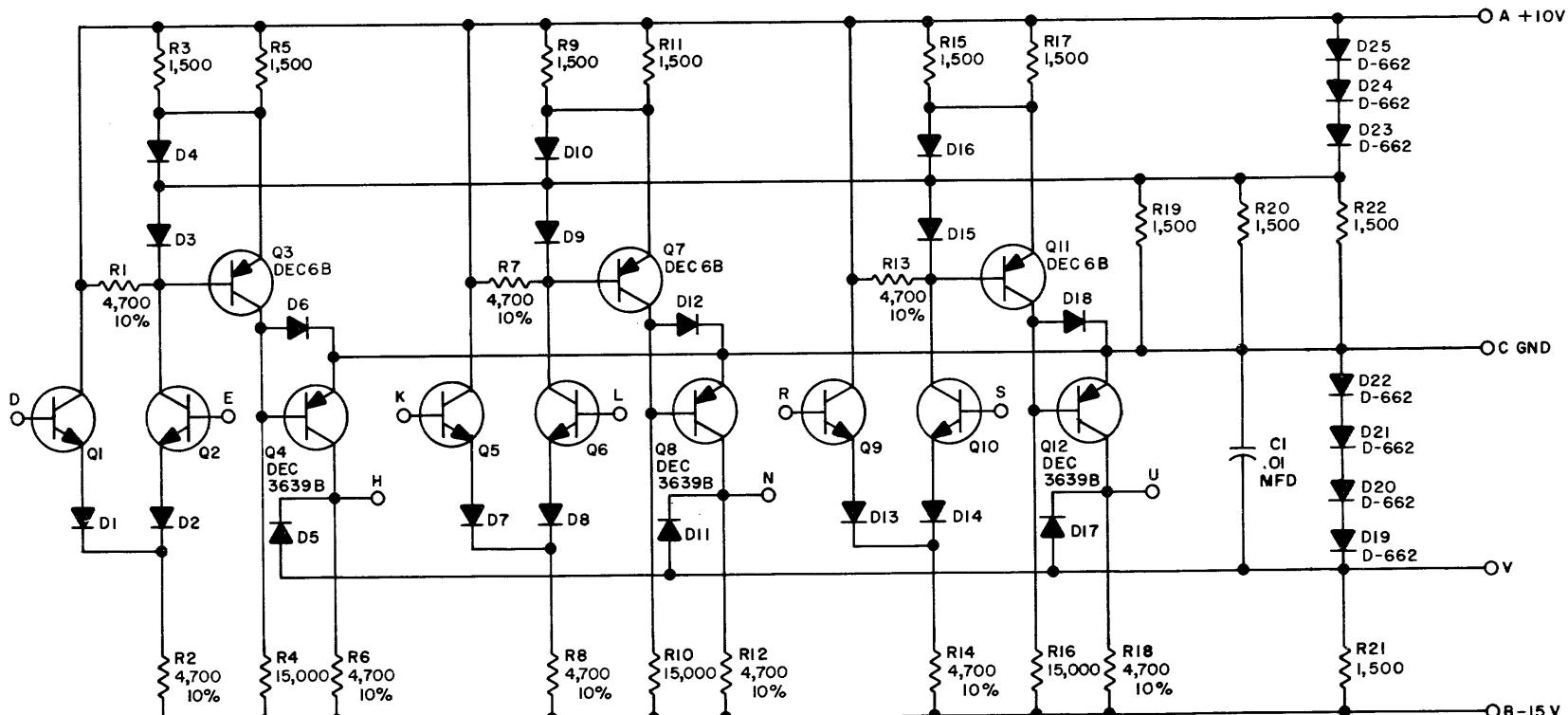
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC2894-1B	NONE		
2N3605	SAME		
D662	IN545		
D664	IN3606		

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
LEVEL AMPLIFIER W513
SIZE CODE NUMBER
B CS W513-0-1 REV E
PRINTED CIRCUIT REV F

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

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PARTS LIST A-PL-W520-0-0

REVISIONS	
CHK	CHG NO
DAW	REV
5136	I
REV B	6407
REDR.	B
7006	C

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

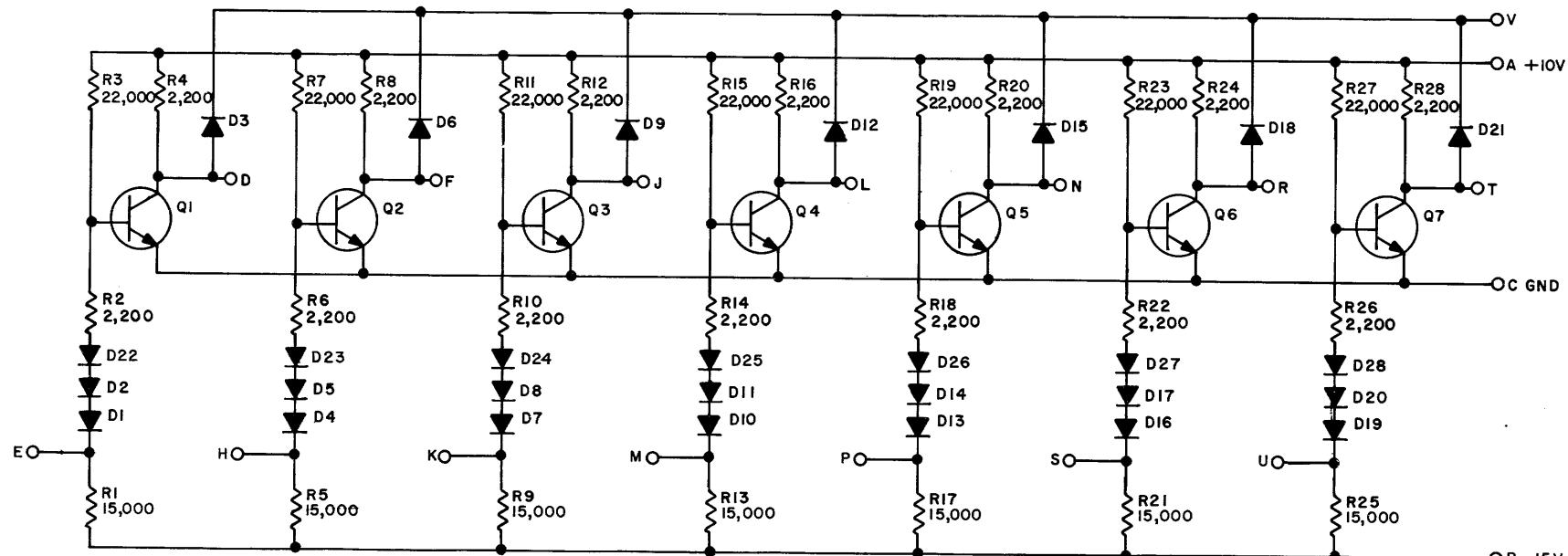
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC6B	NONE		
DEC3009B	2N3009		
DEC3639B	2N3639		
D662	IN645		
D664	IN3606		

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

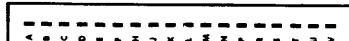
TITLE
COMPARATOR W520
SIZE CODE NUMBER REV.
B CS W520-0-1 C
PRINTED CIRCUIT REV B
DIST. 324 434 435
PINK

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

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RESISTORS ARE 1/4W, 10%
DIODES ARE D664
TRANSISTORS ARE DEC3009B



PARTS LIST A-PL-W603-0-0

REVISIONS		A	B	C
CHK	CHG NO.	REV.		
	6172	A	6744	
		B	736	
		C	736	

DRN.	DATE
CHKID	DATE
ENG.	DATE
PROD.	DATE

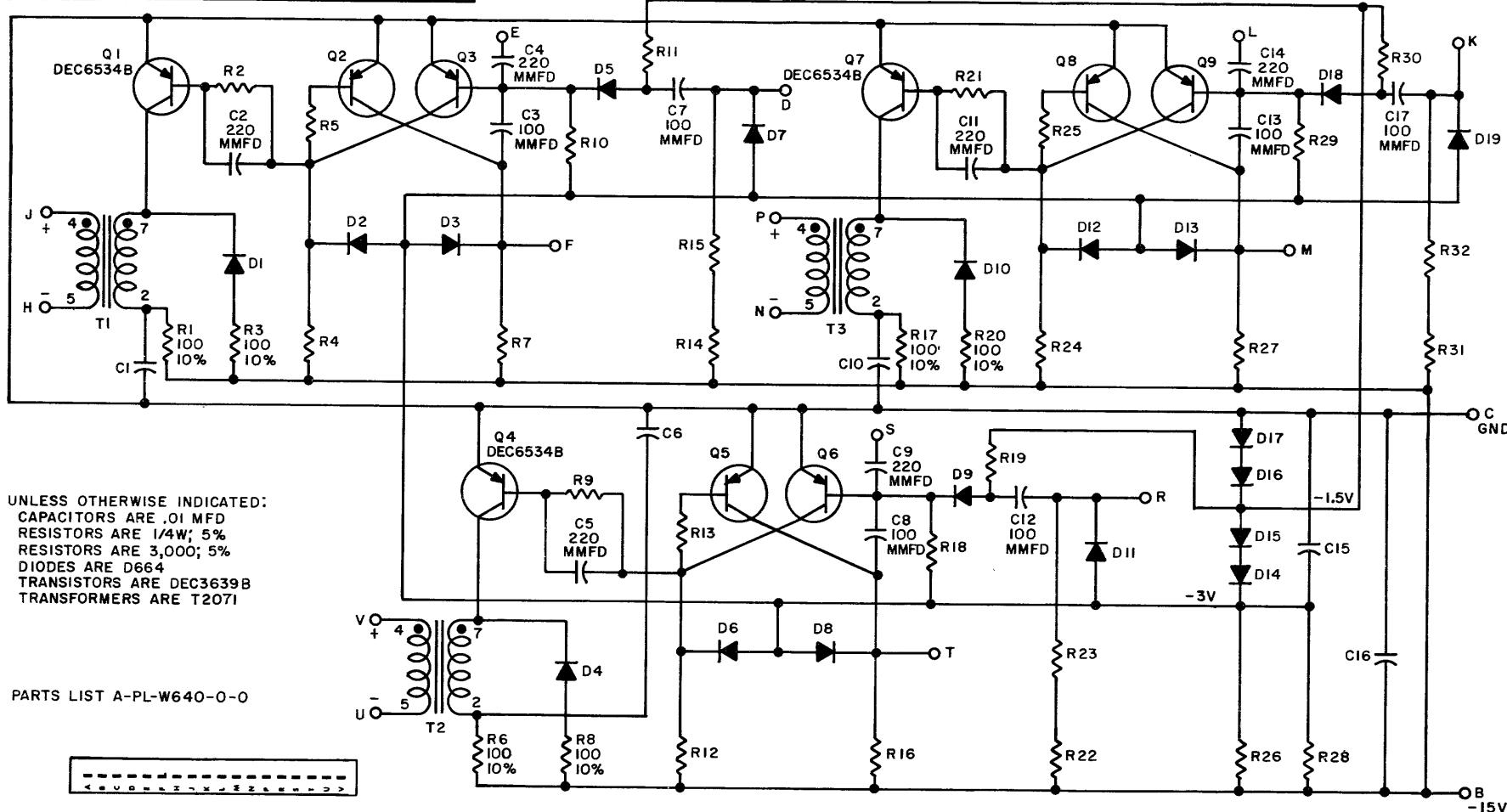
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3009B	2N3009		
D664	IN3606		

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

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

REV. L
SIZE CODE W640-0-1
NUMBER

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DRN.	H. PORTER	DATE
CHK CHG NO.		9-22-64
RMS 5876	H	
REV. 6 18	J	
REV. 6 16	X	
REV. 6 945	L	

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

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
PULSE AMPLIFIER W640
SIZE CODE W640-0-1
NUMBER
REV. L
PRINTED CIRCUIT REV. J
DIST. 324 434 433

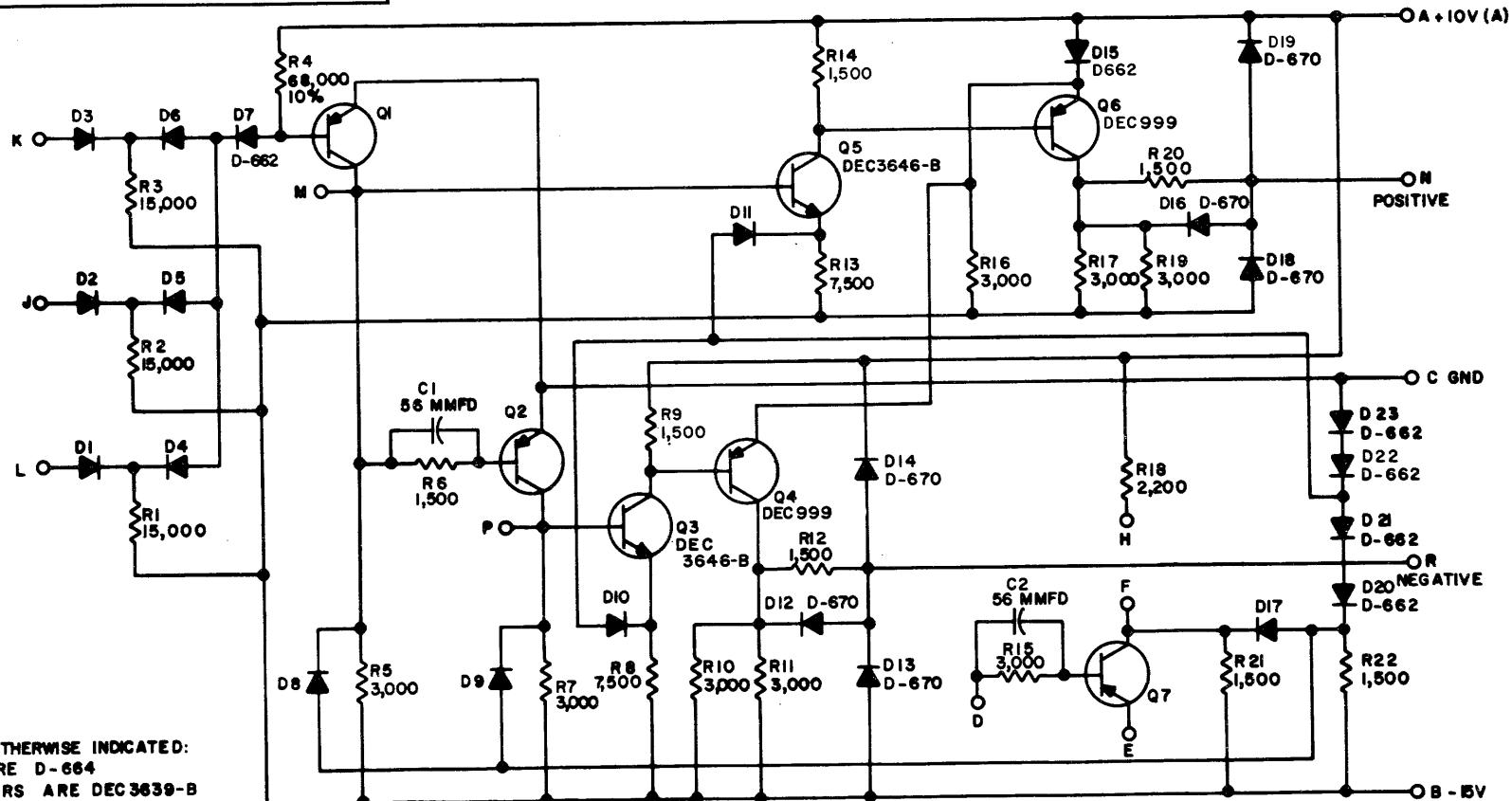
DEC FORM NO.
DRB 102



PINK

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REV. H NUMBER W681-0-1 CS CODE SIZE B



UNLESS OTHERWISE INDICATED:
DIODES ARE D-664
TRANSISTORS ARE DEC 3639-B
RESISTORS ARE 1/4 W, 5%

PARTS LIST A-PL-W68I-0-0

REVISIONS	
CHG NO.	REV.
DAW 6370	2
REV. BREDR.	
6441	C
	D
	E
	F
	H

**DRN.
I. HAHN
CHK'D
R. SILVERMAN
ENG.
R. SOGGE
PROD.**

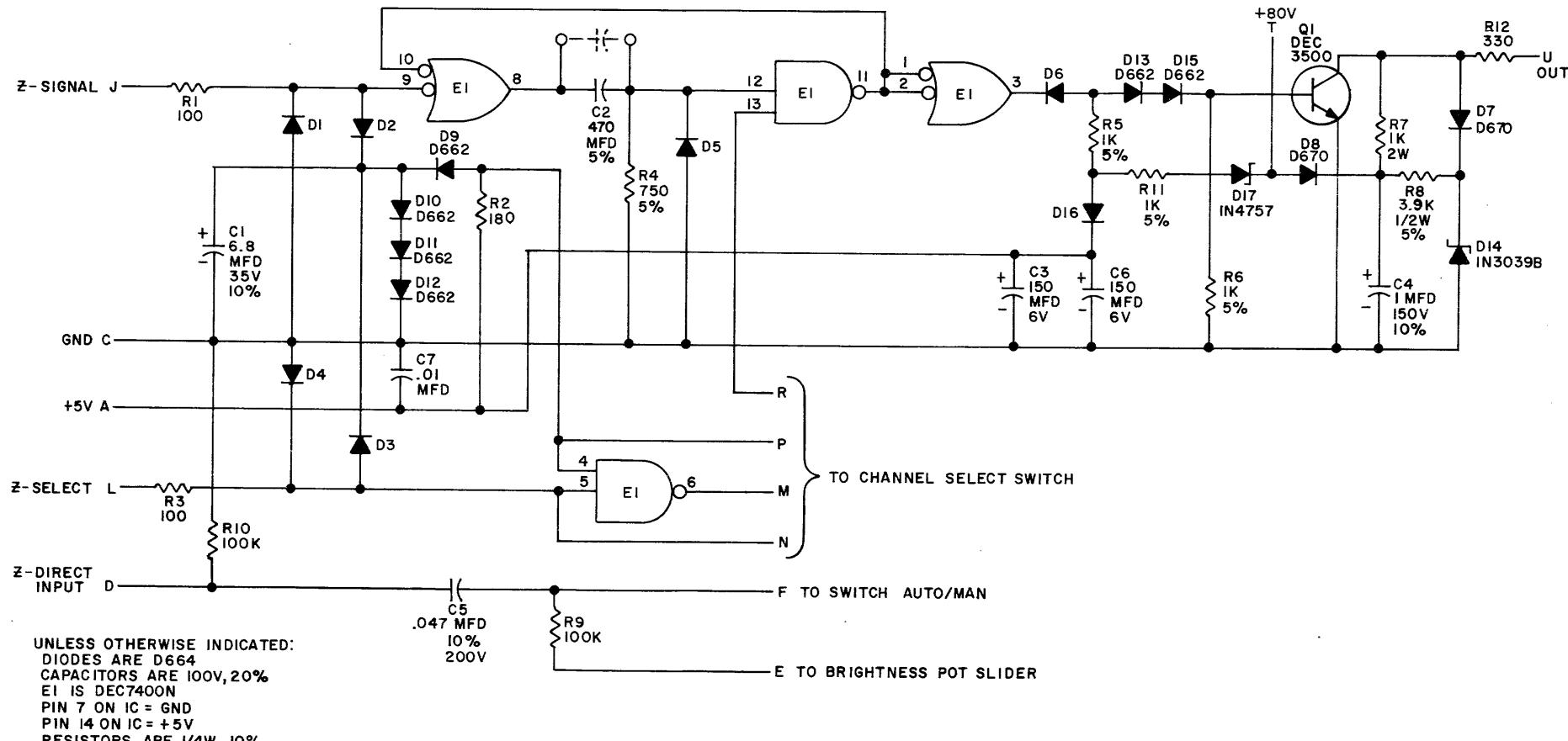
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3639-B	2N3639-B	D670	IN3653
DEC999	MM999		
DEC3648-B	NONE		
D662	IN645		
D664	IN3606		

The logo for Digital Equipment Corporation, featuring the word "digital" in a lowercase, sans-serif font where each letter is enclosed in a separate square box. Below it, the words "EQUIPMENT CORPORATION" are stacked in a larger, all-caps sans-serif font. At the bottom, "MAYNARD, MASSACHUSETTS" is written in a smaller, all-caps sans-serif font.

TITLE	SCOPE INTENSIFIER W68I		
SIZE	CODE	NUMBER	REV.
B	CS	W68I-0-1	H
PRINTED CIRCUIT REV. A			

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

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REVISIONS	
CHK	CHG NO. REV.
B	00001
C	00002
D	00003
E	00004

DRN.	M. Noller	DATE
CHK'D.	J. A. Hallette	5-20-69
ENG.	R. Dohler	6/12/69
PROD.	S. L. Latta	8-5-69

TRANSISTOR & DIODE CONVERSION CHART

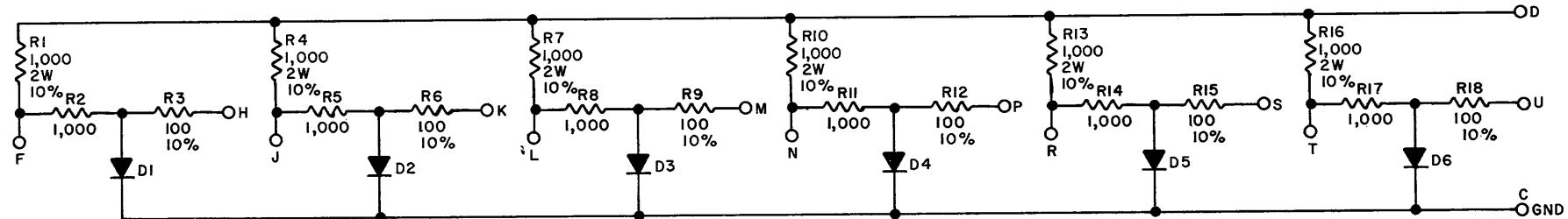
DEC	EIA	DEC	EIA
D662	IN645	IN4757	SAME
D664	IN3606		
D670	IN3653		
IN3039B	SAME		
DEC3500	2N3500		

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

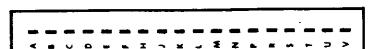
TITLE
INTENSITY AMPLIFIER W682
SIZE B CS NUMBER W682-0-1
REV. E
PRINTED CIRCUIT REV. A
DIST. 324,454,435
4 PINK

B CS W70I-0-1 NUMBER REV.

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



REVISIONS	
CHK	CHG NO
REV B	REDR.
A	5532

DRN	DATE
I. HAHN	10-20-65
CHK'D	DATE
R. SILVERMAN	10-21-65
ENG	DATE
E. DE CASTRO	10-21-65
PROD	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D664	IN3606		

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
INPUT NETWORK W70I
SIZE CODE NUMBER
B CS W70I-0-1
REV. A
PRINTED CIRCUIT REV. A

B SIZE CODE CS W990 - 0 - I NUMBER REV A

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A O —————— O A
 B O —————— O B
 C O —————— O C
 D O —————— O D
 E O —————— O E
 F O —————— O F
 H O —————— O H
 J O —————— O J
 K O —————— O K
 L O —————— O L
 M O —————— O M
 N O —————— O N
 P O —————— O P
 R O —————— O R
 S O —————— O S
 T O —————— O T
 U O —————— O U
 V O —————— O V

REVISIONS	CHK	CRG NO.	REV
	1	00001	A

DEC FORM NO.
DRB 102

DRN.	DATE
<i>Guttenberg</i>	4-29-69
CHK'D	DATE
M. Marshall	4-29-69
ENG.	DATE
D. Pima	5/2/69
PROD.	DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE BLANK MODULE
W990
SIZE B CODE CS NUMBER W990 - 0 - I REV. A
PRINTED CIRCUIT REV. E

5 DIST. 324,434,435³

PINK