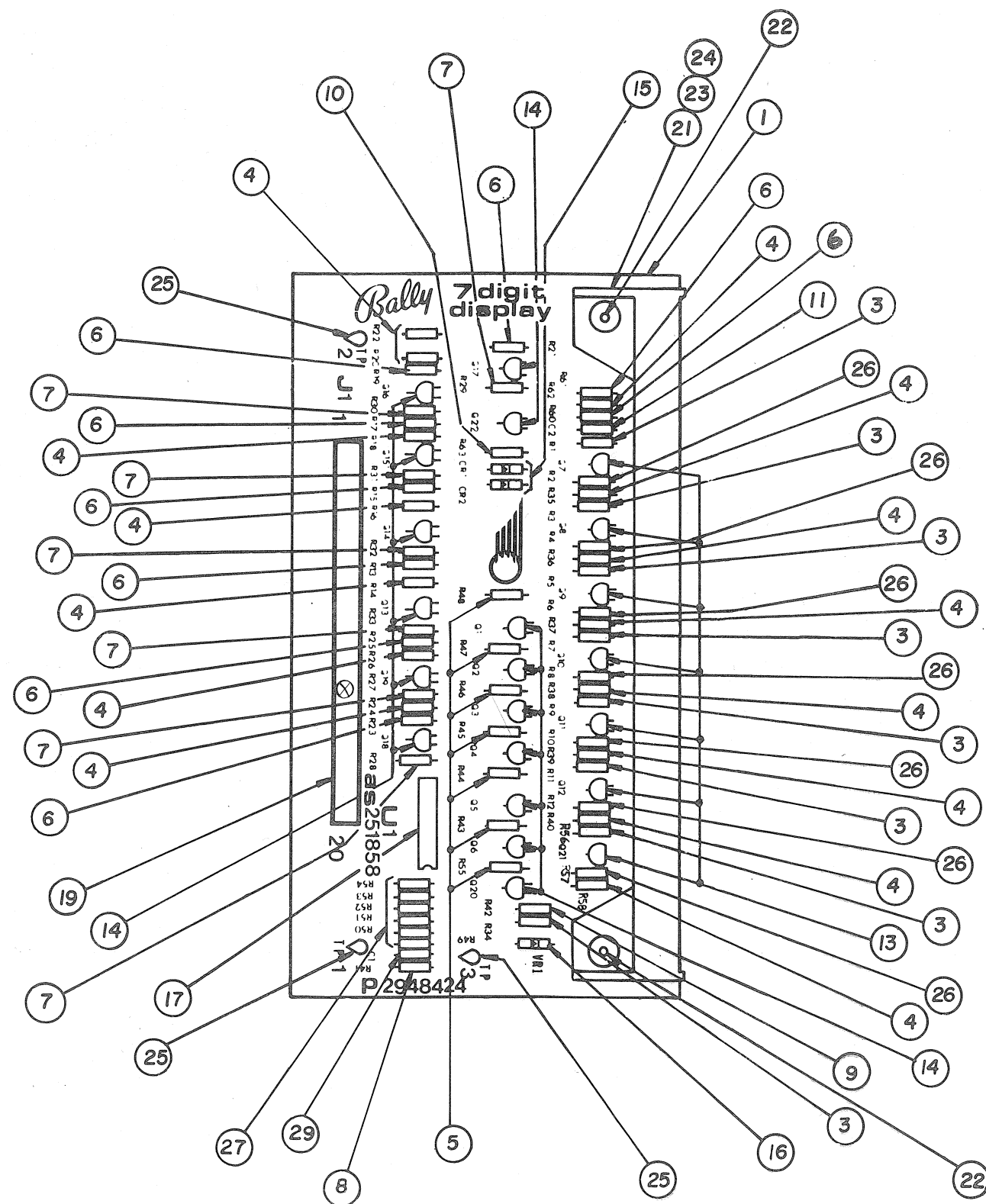


AS-2518-58 DISPLAY DRIVER MODULE



A1: 7 DIGIT DISPLAY DRIVER MODULE

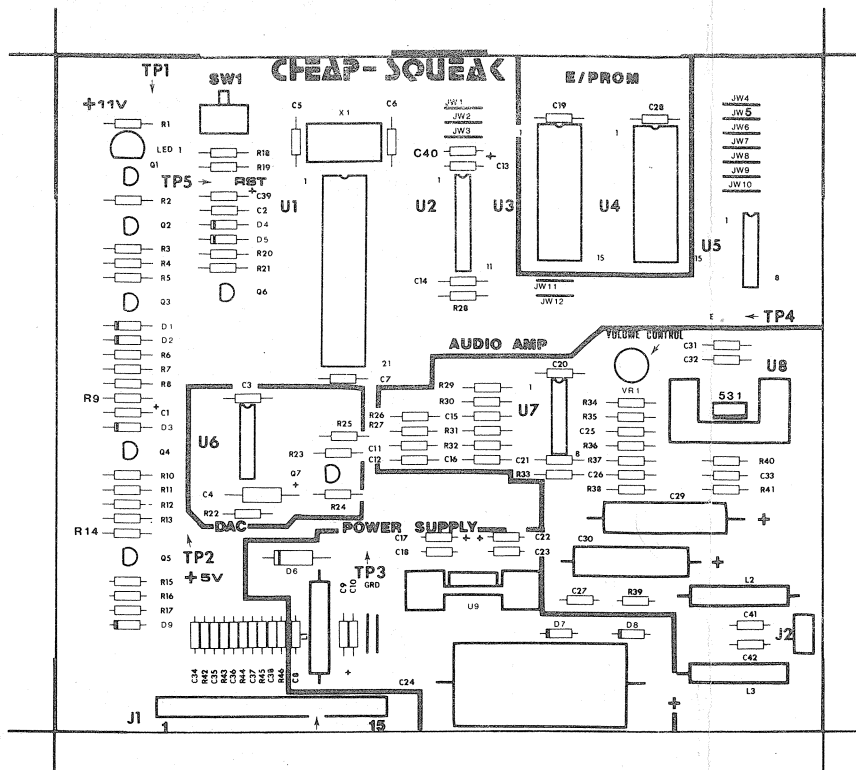
COMPONENTS PARTS LIST

ITEM	QTY.	REFERENCE DESIGNATION	BALLY PART #	DESCRIPTION
1	1		P-2948-424	P.C. Board, M-645 546
3	8	R1, R3, R5, R7, R9, R11, R34, R56	E-105-331	Resistor, 100K Ω
4	15	R14, R16, R18, R20, R22, R24, R26, R35, R36, R37, R38, R39, R40, R58, R62, R43, R44, R45, R46, R47, R48, R55	E-105-227	Resistor, 300K Ω
5	7	R13, R15, R17, R19, R21, R23, R25, R61, R60	E-105-228	Resistor, 9.1K Ω
6	9	R27, R28, R29, R30, R31, R32, R33	E-105-229	Resistor, 1.5K Ω
7	7	R41	E-105-222	Resistor, 1.2K Ω
8	1	R42	E-105-231	Resistor, 39K Ω
9	1	R43	E-105-271	Resistor, 240K Ω
10	1	R63	E-105-248	Resistor, 150K Ω
11	1	C2	E-586-65	Capacitor, .01 MFD, 500V
13	7	Q7, Q8, Q9, Q10, Q11, Q12, Q21	E-585-32	Transistor (2N5401)
14	15	Q1, Q2, Q3, Q4, Q5, Q6, Q13, Q14, Q15, Q16, Q17, Q18, Q19, Q20, Q22	E-585-33	Transistor (MPS-A42)
15	2	CR1-2	E-587-14	Diode (IN4148)
16	1	VR1	E-598-7	Zener Diode, 110V (IN3045A)
17	1	U1	E-620-38	I.C. Decoder (MC14543)
18				
19	2	J1	E-736-10	10 Pin Wafer Pin Connector (KK-156)
21	1	DS1	E-680-7	7 Digital Display Panel
22	2		M-1836	Hi-Lo Screw, W/H
23	1		P-2399	Display Mounting (Top)
24	1		P-2399-1	Display Mounting (Bottom)
25	3	TP1-3	P-5399	Test Clip
26	7	R2, R4, R6, R8, R10, R12, R57	E-105-287	Resistor, 2.2K Ω
27	6	R49, R50, R51, R52, R53, R54	E-105-242	Resistor, 20K Ω
28				
29	1	C1	E-586-85	Capacitor, .01 MFD, 25V

DESCRIPTION LIST

DESIGNATION NO.	DESCRIPTION	DESIGNATION NO.	DESCRIPTION
C1	6.8 UF @ 25V, TANT	D1-D3	1N4606
C2,C3	.01 UF	D4,D5	1N4004
C4	47 UF @ 16V	D6	VR332,GP30
C5,C6	27 PF,5%	D7,D8	1N4004
C7-C9	.01 UF	D9	1N958B
C10	4.7 UF @ 25V, TANT	Q1	2N5305
C11	3000 PF	Q2	2N4403
C12,C13	0.1 UF	Q3	2N3904 NPN
C14	47 PF	Q4	2N4403 PNP
C15	150 PF	Q5	2N3904 NPN
C16	220 PF	Q6	2N4403 PNP
C17	4.7 UF @ 25V, TANT	Q7	2N5305 NPN
C18,C19	.01 UF	U1	MC 6803
C20,C21	0.1 UF	U2	LS373
C22	4.7 UF @ 25V, TANT	U3,U4	EPROM
C23	.01 UF	U5	LS10
C24	4700 UF @ 25V	U6	2N429E-8
C25	100 PF	U7	LM 3900
C26	300 PF	U8	TDA 2002
C27	0.1 UF	U9	MC 7805
C28	.01 UF	L1,L2,L3	10 UH CHOKE
C29	470 UF @ 6V	XU1	40 PIN SOCKET
C30	1000 UF @ 16V	XU3,XU4	28 PIN SOCKET
C31	.33 UF	J1	.045 PIN
C32	0.1 UF	J2	.045 PIN
C33	.05 UF	TP1-TP5	TEST POINT
C34-C38	820 PF	LED 1	MV5254
C39,C40	4.7 UF @ 25V TANT		
C41,C42	.22 UF		
R1	560 OHM	HEATSINK P/O U8	6030B-TT
R2	47K OHM	HEATSINK P/O U9	6100B
R3	910 OHM	SCREW P/O U8,U9	SCREW 6-32
R4	5.6K OHM	NUT P/O U8,U9	NUT 6-32
R5	62K OHM		
R6	10K OHM	P/O U8,U9	INSULATOR
R7	82K OHM		
R8	10K OHM	SW1	SWITCH P.C.B.
R9	47K OHM		
R10	100 OHM	X1	3.579 MHZ
R11	82 OHM		
R12	9.1K OHM		
R13	7.5K OHM		
R14	39K OHM		
R15,R16	2.7K OHM		
R17	1K OHM		
R18,R19	3.3K OHM		
R20	10K OHM		
R21	16K OHM		
R22	2.7K OHM		
R23	68 OHM		
R24	180 OHM		
R25,R26	100K OHM		
R27	47K OHM		
R28	120 OHM		
R29	120K OHM		
R30	130K OHM		
R31	100K OHM		
R32	200K OHM		
R33	390K OHM		
R34	470K OHM		
R35	24K OHM		
R36	180K OHM		
R37	390K OHM		
R38	2.2 OHM		
R39	1 OHM		
R40	430 OHM		
R41	220 OHM		
R42-R46	470 OHM		

VR 1 PHAN. POT O-1K 1/2W

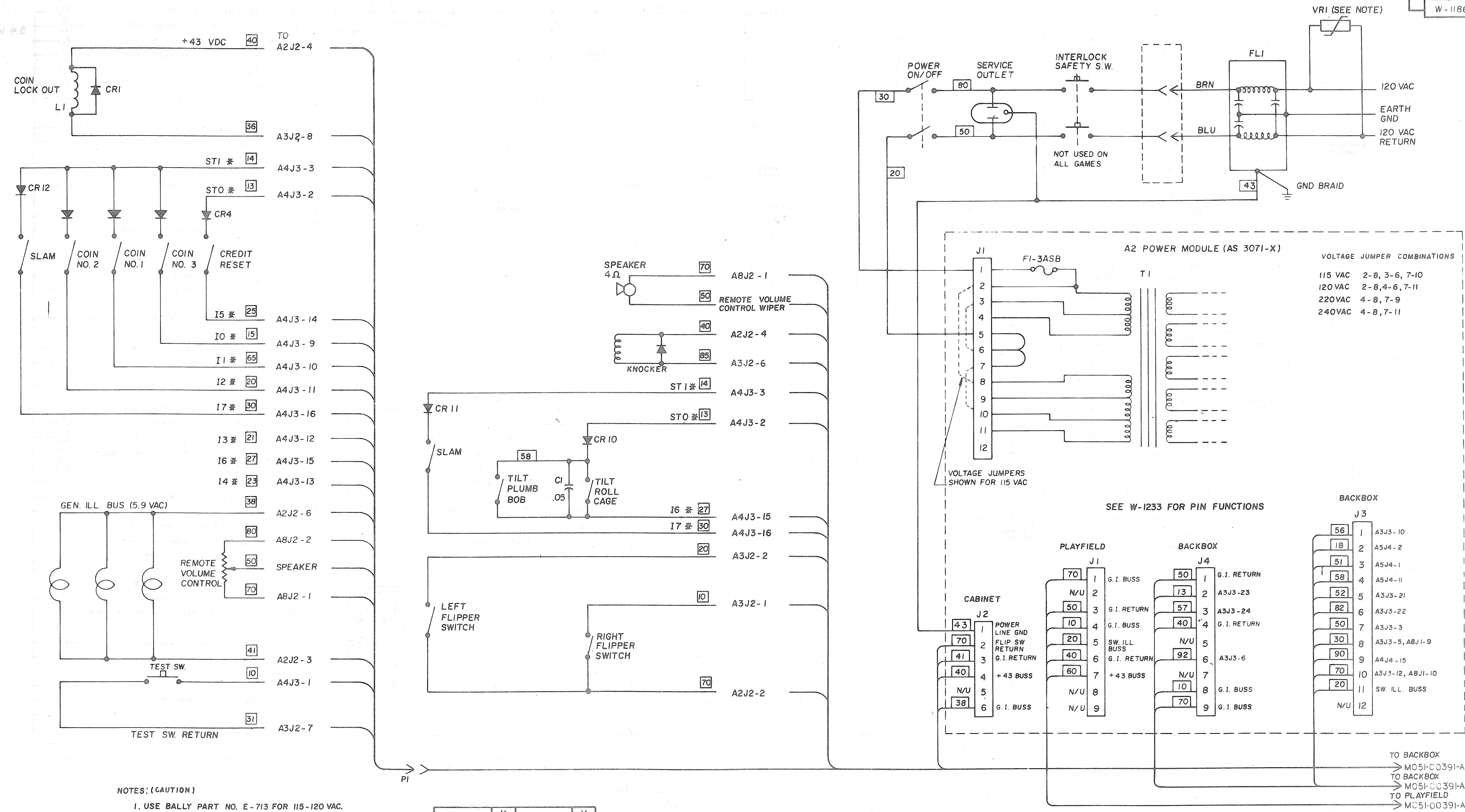


DESCRIPTION	QTY
27 PF,5%	2
47 PF	1
100 PF	1
150 PF	1
220 PF	1
300 PF	1
820 PF	5
3000 PF	1
.01 UF	9
.05 UF	1
0.1 UF	6
.22 UF	2
.33 UF	1
4.7 UF @ 25V, TANT	5
6.8 UF @ 25V, TANT	1
47 UF @ 16V	1
470 UF @ 6V	1
1000 UF @ 16V	1
4700 UF @ 25V	1
1 OHM	1
2.2 OHM	1
68 OHM	1
82 OHM	1
100 OHM	1
120 OHM	1
180 OHM	1
220 OHM	1
430 OHM	1
470 OHM	5
560 OHM	1
910 OHM	1
1K OHM	1
2.7K OHM	3
3.3K OHM	2
5.6K OHM	1
7.5K OHM	1
9.1K OHM	1
10K OHM	3
16K OHM	1
24K OHM	1
39K OHM	1
47K OHM	3
62K OHM	1
82K OHM	1
100K OHM	3
120K OHM	1
130K	1
180K	1
200K	1
390K	2
470K	1

CROSS REFERENCE LIST

DESIGNATION NO.	PART NOS.	DESCRIPTION	QTY	DESIGNATION NO.	PART NOS.
C5,C6	0360-00800-0052	PHAN. POT O-1K 1/2W	1	VR1	0360-00804-0003
C14	0360-00800-0027				
C25	0360-00800-0046				
C15	0360-00800-0053	1N4606	3	D1-D3	103E-00002-0006
C16	0360-00800-0054	1N4004	4	D4,D5,D7,D8	103E-00003-0005
C26	0360-00800-0055	VR332	1	D6	103E-00001-0007
C34-C38	0360-00800-0004	1N958B ZENER	1	D9	103E-00001-0002
C11	0360-00800-0056				
C2,C3,C7-C9, C18,C19,C23, C28	0360-00800-0005	2N3904 NPN	2	Q3,Q5	104E-00001-0006
C33	0360-00800-0006	2N4403 PNP	3	Q2,Q4,Q6	104E-00002-0006
C12,C13,C20, C21,C27,C32	0360-00800-0058	2N5305 DARL NPN	2	Q1,Q7	104E-00001-0010
C41,C42	0360-00800-0057	74LS10	1	U5	0360-00803-0046
C31	0360-00800-0059	74LS373	1	U2	0360-00803-0059
C10,C17,C22, C39,C40	0360-00800-0008	MC 6803,MPU	1	U1	0360-00803-0048
C1	0360-00800-0048	LM 3900,OP AMP	1	U6	0360-00803-0049
C4	0360-00800-0042	TDA 2002,AUD AMP	1	U7	0360-00803-0002
C29	0360-00800-0021	MC 7805,+5V REG.	1	U8	0360-00803-0009
C30	0360-00800-0044			U9	0360-00803-0050
C24	0360-00800-0023	INDUCTOR,10 UH	3	L1,L2,L3	0360-00804-0031
R39	100E-00005-0002	28 PIN IC SOCKET	2	XU3,XU4	0360-00804-0028
R38	100E-00005-0003	40 PIN IC SOCKET	1	XU1	0360-00804-0018
R23	100E-00005-0029	.045 SQ. PIN	15	J1	0017-00033-0480
R11	100E-00005-0031	.045 SQ. PIN	2	J2	0017-00033-0480
R10	100E-00005-0033	TEST POINTS	5	TP1-TP5	0017-00007-0131
R28	100E-00005-0035	LED MV5254	1	LED 1	0360-00804-0015
R24	100E-00005-0039	HEATSINK,6030B-TT	1	P/O U8	0360-00804-0010
R41	100E-00005-0041	HEATSINK,6100B	1	P/O U9	0360-00804-0032
R40	100E-00005-0050				
R42-R46	100E-00005-0051	NUT 6 X 32	2	P/O U8,U9	0017-00103-0005
R1	100E-00005-0054	SCREW 6 X 32	2	P/O U8,U9	0017-00101-0339
R3	100E-00005-0059	INSULATOR,THERMAL	2	P/O U8,U9	0017-00042-0319
R17	100E-00005-0061	SWITCH	1	SW1	0017-00032-0038
R15,R16,R22	100E-00005-0071	CRYSTAL,3.579 MHZ	1	X1	0360-00804-0019
R18,R19	100E-00005-0074	P.C.B.	1		A080-91603-B000
R4	100E-00005-0082				
R13	100E-00005-0085				
R12	100E-00005-0087				
R6,R8,R20	100E-00005-0088				
R21	100E-00005-0165				
R35	100E-00005-0097				
R14	100E-00005-0102				
R2,R9,R27	100E-00005-0104				
R5	100E-00005-0107				
R7	100E-00005-0112				
R25,R26,R31	100E-00005-0115				
R29	100E-00005-0118				
R30	100E-00005-0119				
R36	100E-00005-0122				
R32	100E-00005-0123				
R33,R37	100E-00005-0130				
R34	100E-00005-0132				

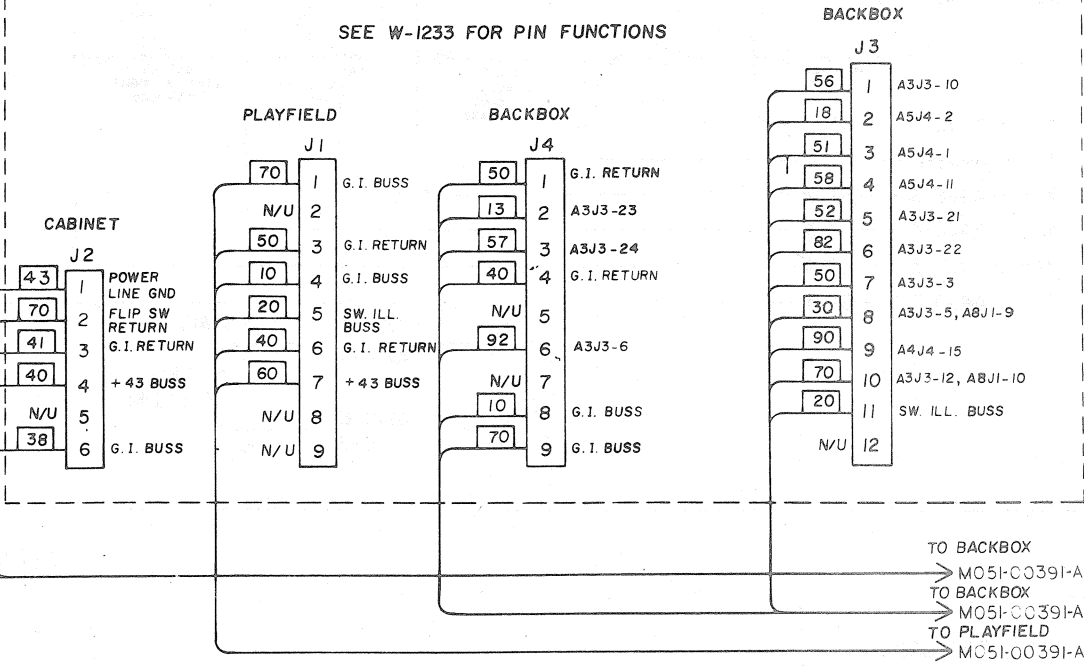
PROJECT ENG: D. MACDONALD		USED ON		REVISIONS	
DO NOT SCALE DWG		SCALE FULL		NO. REQ'D 1 PER	
DIM. TOLERANCE UNLESS SPECIFIED		CHEAP SQUEAK PC BD. ASSY.		PART NO.	
FRACTIONAL 1/16		A080-91603-B000		M751 - 00114 - B044	
DECIMAL .005					
HOLE DIA. + .002 .005					
DATE 8/31/83					



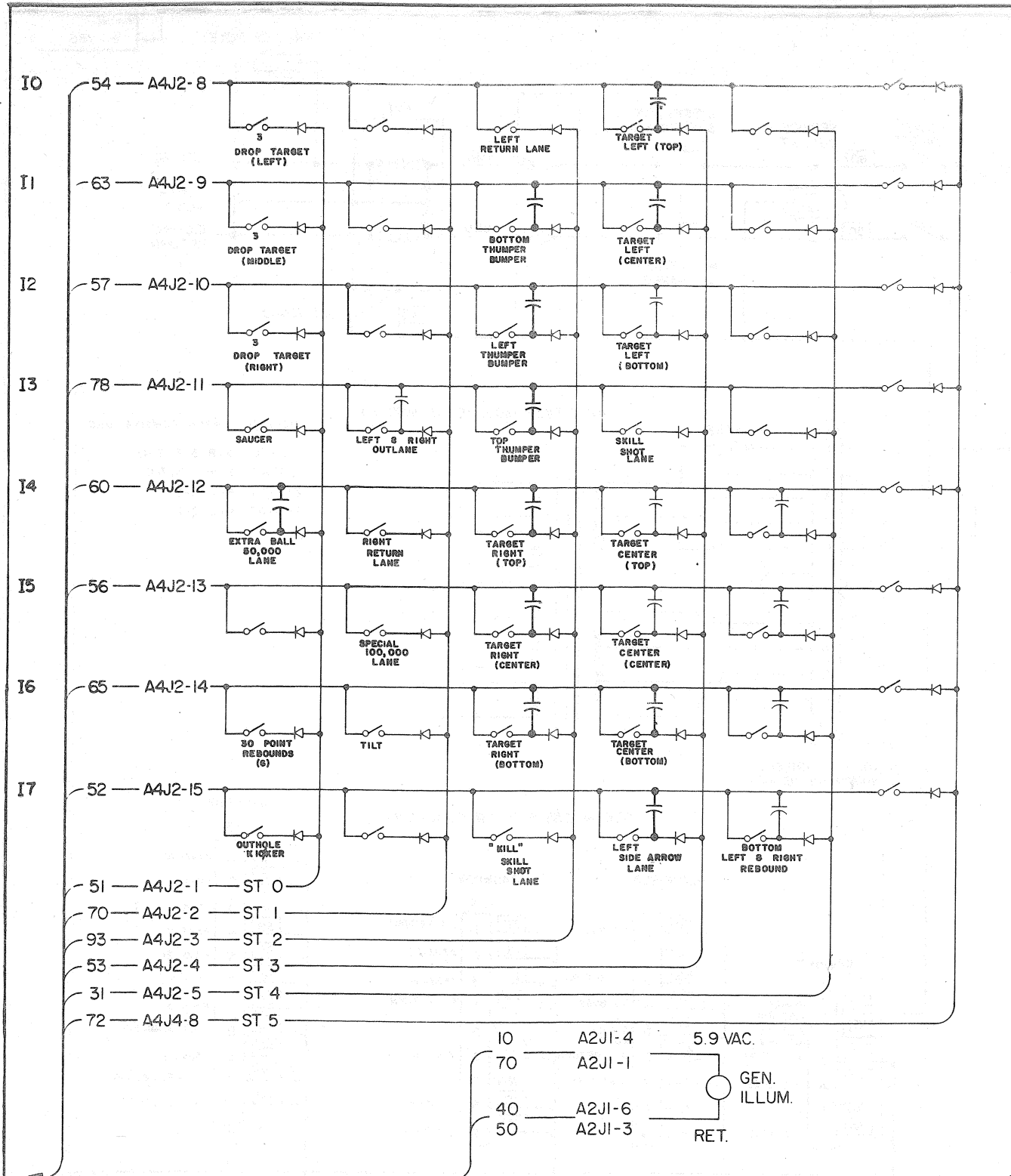
NOTES: (CAUTION)
1. USE BALLY PART NO. E-713 FOR 115-120 VAC.
2. USE BALLY PART NO. E-713-1 FOR 220-240 VAC.
3. * INDICATES AID TEST POINT.

TO	J1 PIN	TO	J1 PIN
A4J3-9	1	A4J3-3	11
A4J3-10	2	A2J2-4	15
A4J3-11	3	A3J2-8	16
A4J3-12	4	A2J2-6	17
A4J3-13	5	A2J2-3	18
A4J3-14	6	A4J3-1	19
A4J3-15	7	A3J2-7	20
A4J3-16	8	SPEAKER	9
A4J3-17	10	A8J2-1	12
A4J3-18		A8J2-2	13

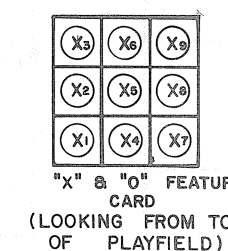
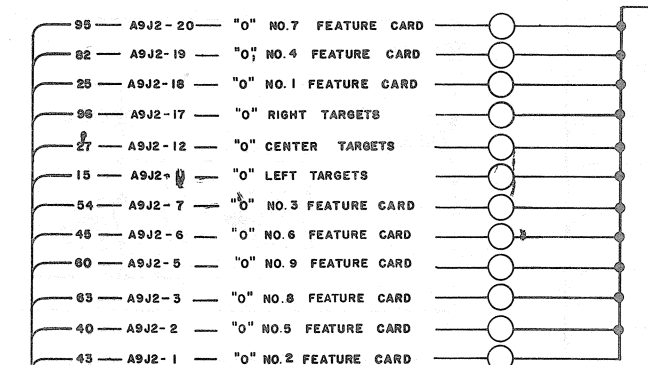
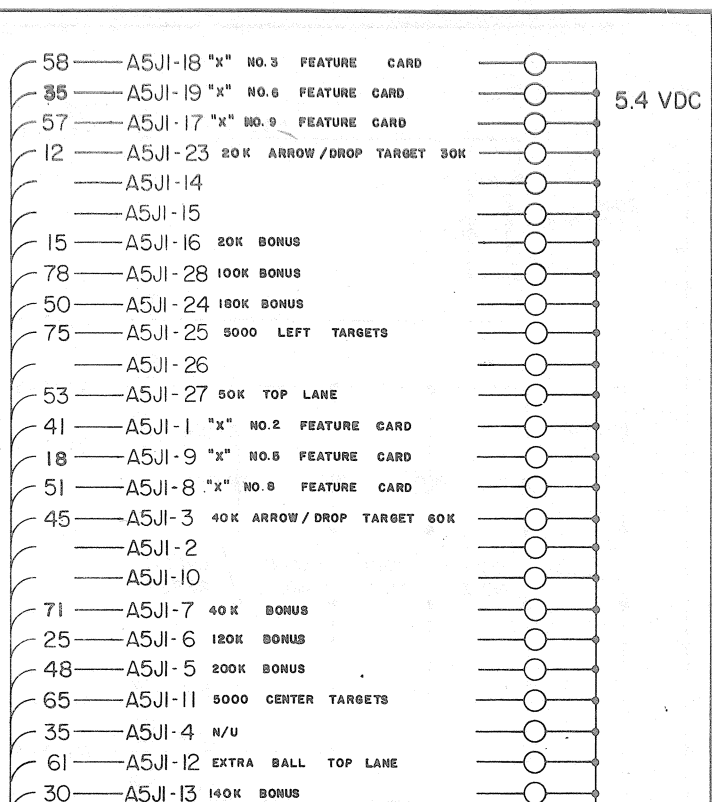
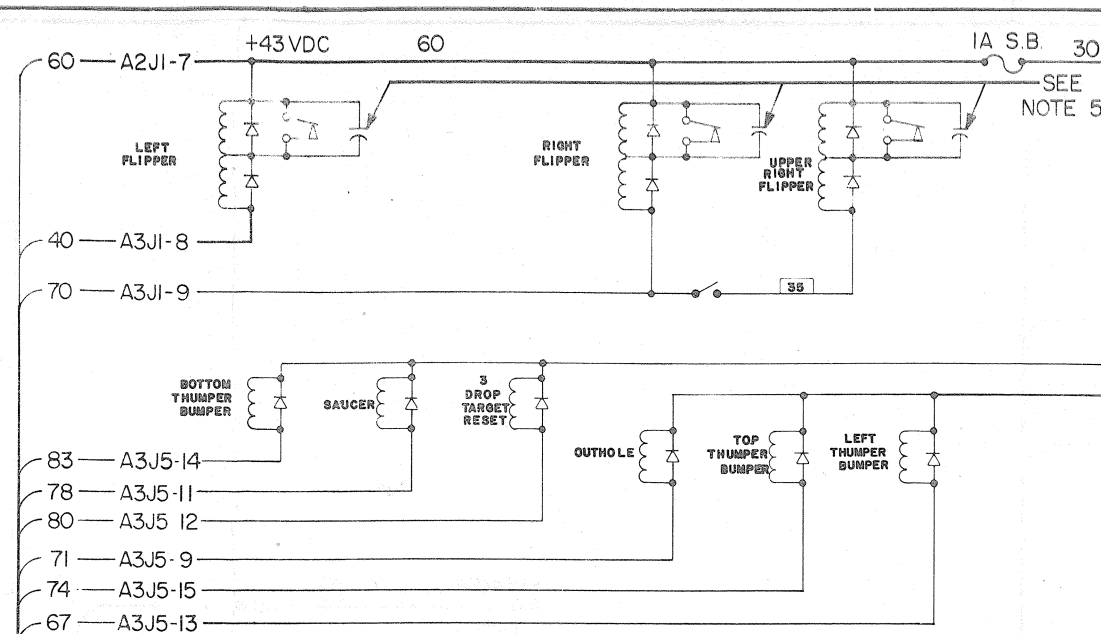
A7 CABINET ASS'Y. WIRING
NOTE: DIODES ARE 1N4004, (E-587-6)



TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED FRACTIONS - .001 DECIMALS - .001 EXCEPT HOLE DIA. S. ANGLES		DR BY DATE CK BY DATE AP BY DATE AP BY DATE FINISH HARDENING		Bally MANUFACTURING CORP. 2640 BELMONT AVENUE CHICAGO, ILLINOIS DIE SIZE: C.C. FT PER M LBS PER M NAME ASSEM NO USED MATERIAL	
DO NOT SCALE DRAWING		WIRING DIAGRAM - CABINET		X'S AND O'S	



PLAYFIELD A6



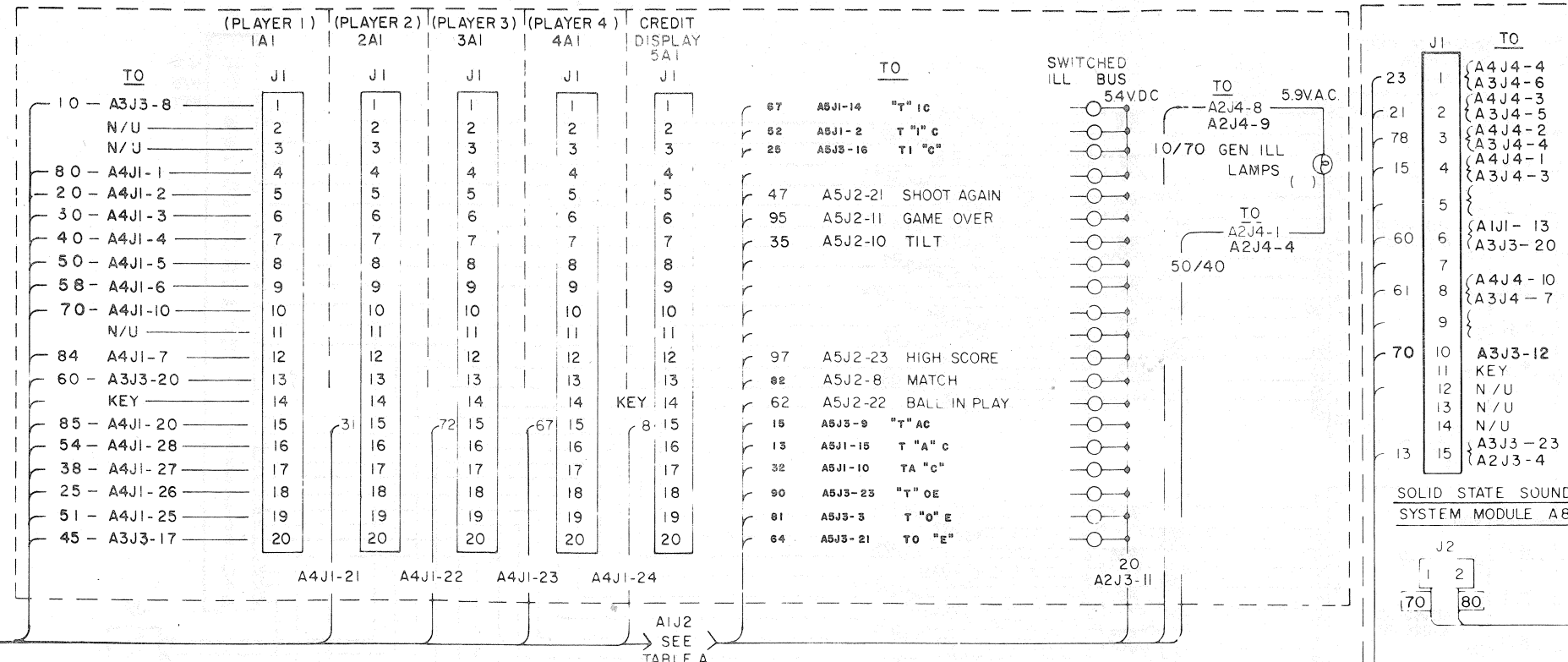
NOTES

- 1 INDICATES NOT USED
- 2 N/U = NOT USED ON PLAYFIELD
- 3 * INDICATES AID TEST POINT
4. COIL DIODES ARE IN4004(E-587-6) SWITCH DIODES ARE IN4148(E-587-14)
ALL CAPACITORS ARE .05 MFD. (E-586-80)
5. GERMANY ONLY-CAPACITOR .01 MFD. @ 500 V. (E-586-65)

REMOVE ALL BURRS		DR. BY DATE		Bally MANUFACTURING CORP. 2640 BELMONT AVENUE CHICAGO, ILLINOIS	
TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED		CK. BY DATE		DIE SIZE - CC - FT PER M - LBS PER M -	
FRACTIONS -		AP'D BY DATE		PRINT CONTROL	
DECIMALS -		AP'D BY DATE		NAME	
EXCEPT HOLE DIA. S		FINISH:		ASSEM NO USED SCALE	
ANGLES -		HARDENING		WIRING DIAGRAM PLAYFIELD	
DO NOT SCALE DRAWING		MATERIAL		PART NO M051-00391-A008	
		X'S & O'S			

AI INSERT

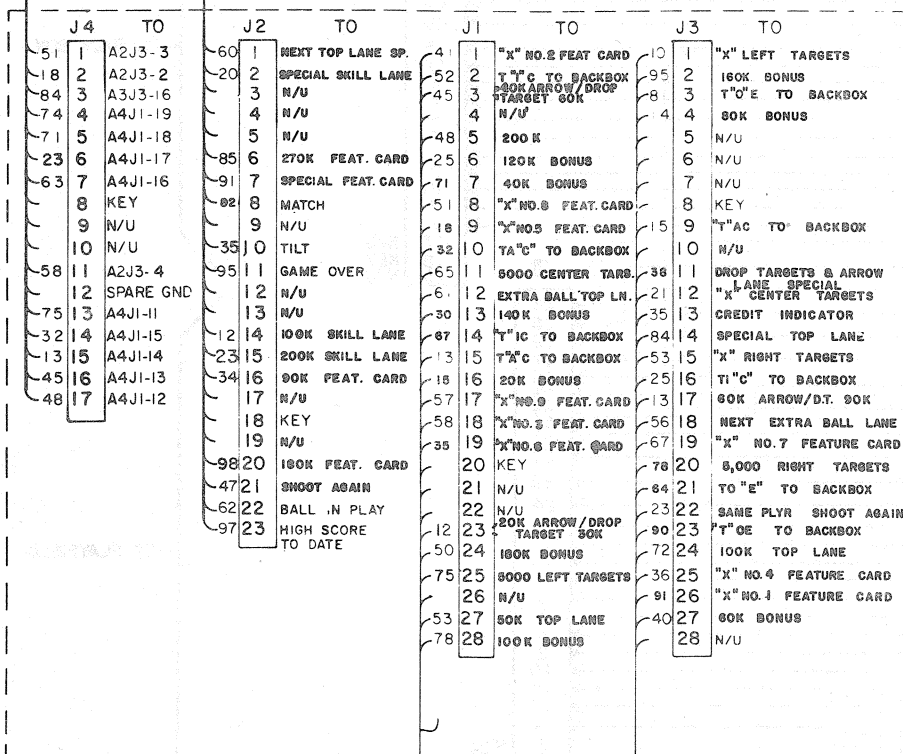
FROM	PIN	WIRE
A2J4 - 8	1	10
A2J4 - 1	2	80
A5J2 - 14	3	12
A5J2 - 2	4	20
A5J2 - 15	5	23
A5J2 - 16	6	34
A5J2 - 10	7	35
A5J2 - 21	8	47
A5J2 - 1	9	60
A2J3 - 11	10	20
A5J2 - 22	11	62
A5J2 - 6	12	85
A5J2 - 7	13	91
A5J2 - 11	14	95
A5J2 - 23	15	97
A5J2 - 20	16	96
A5J2 - 8	17	82
	18	
	19	
	20	
	21	
	22	
A2J4 - 4	23	40
A2J4 - 9	24	70



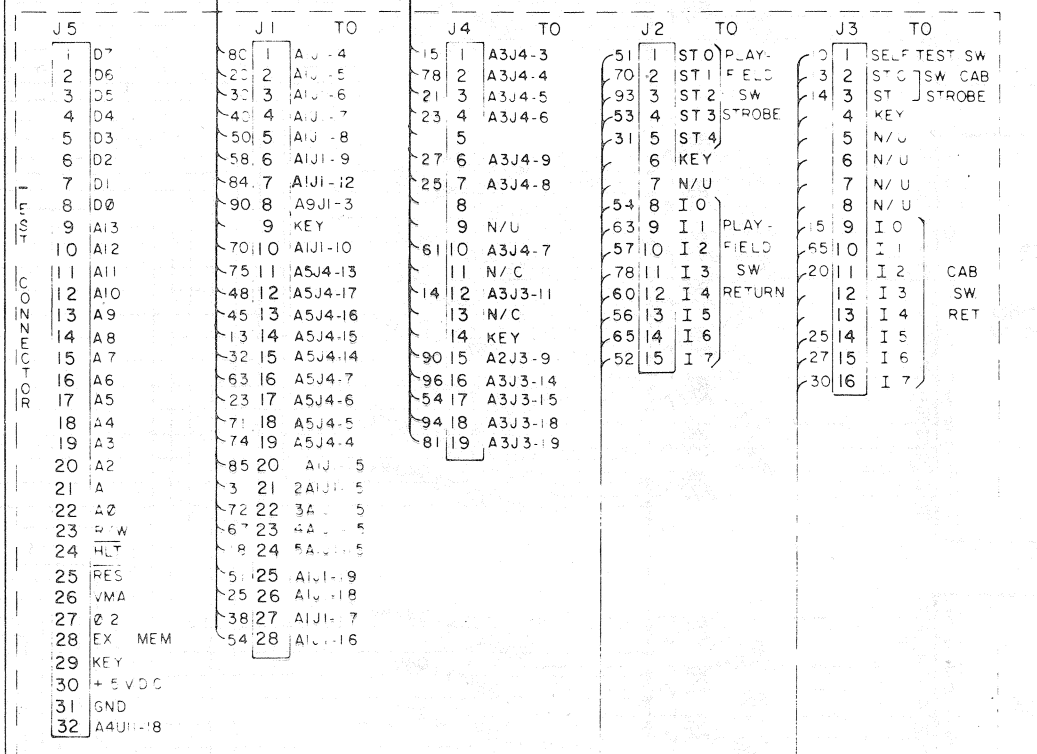
24 PIN PLUG		
FROM	PIN	TO
A5J2-14	1	12
A5J1-15	2	15
A5J2-2	3	20
A5J2-15	4	23
A5J3-16	5	25
A5J3-9	6	15
A5J1-10	7	32
A5J2-16	8	34
A5J2-1	9	60
A5J3-21	10	64
A5J2-6	11	65
A5J3-3	12	61
A5J1-2	13	52
A5J1-14	14	67
A5J3-23	15	90
A5J2-7	16	91
A5J2-20	17	98
	18	

PANEL / INSERT TO BACKBOX

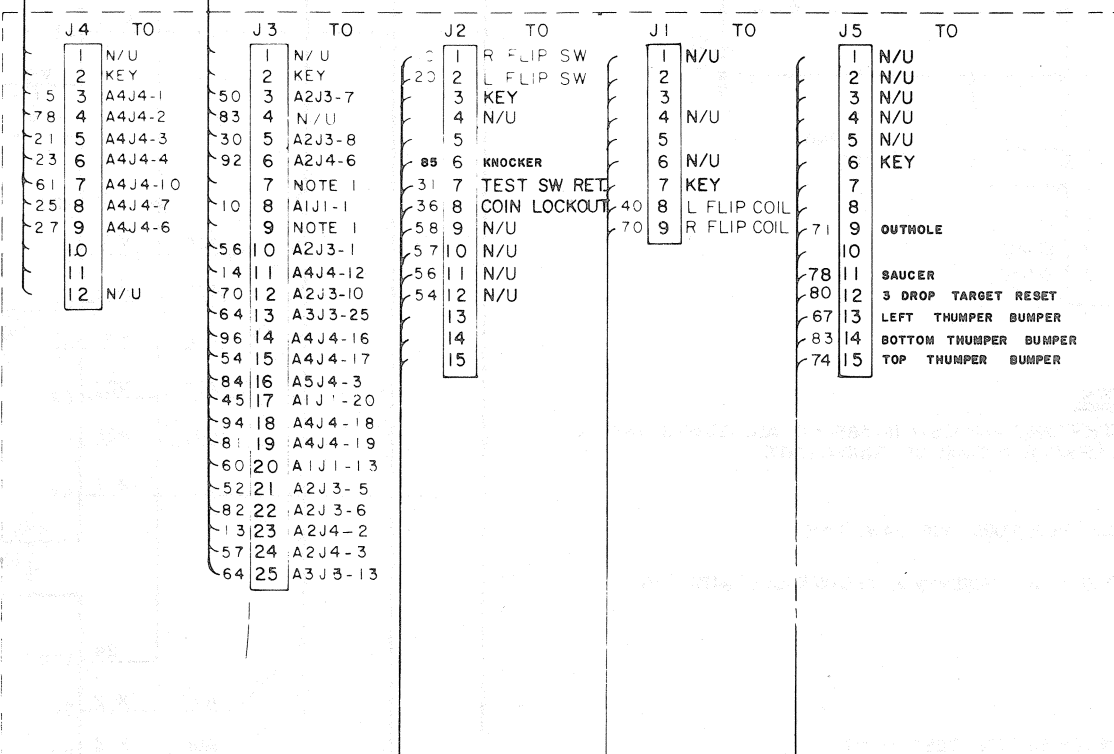
LAMP DRIVER A5



MPU A4



VOLTAGE REGULATOR / SOLENOID DRIVER A3

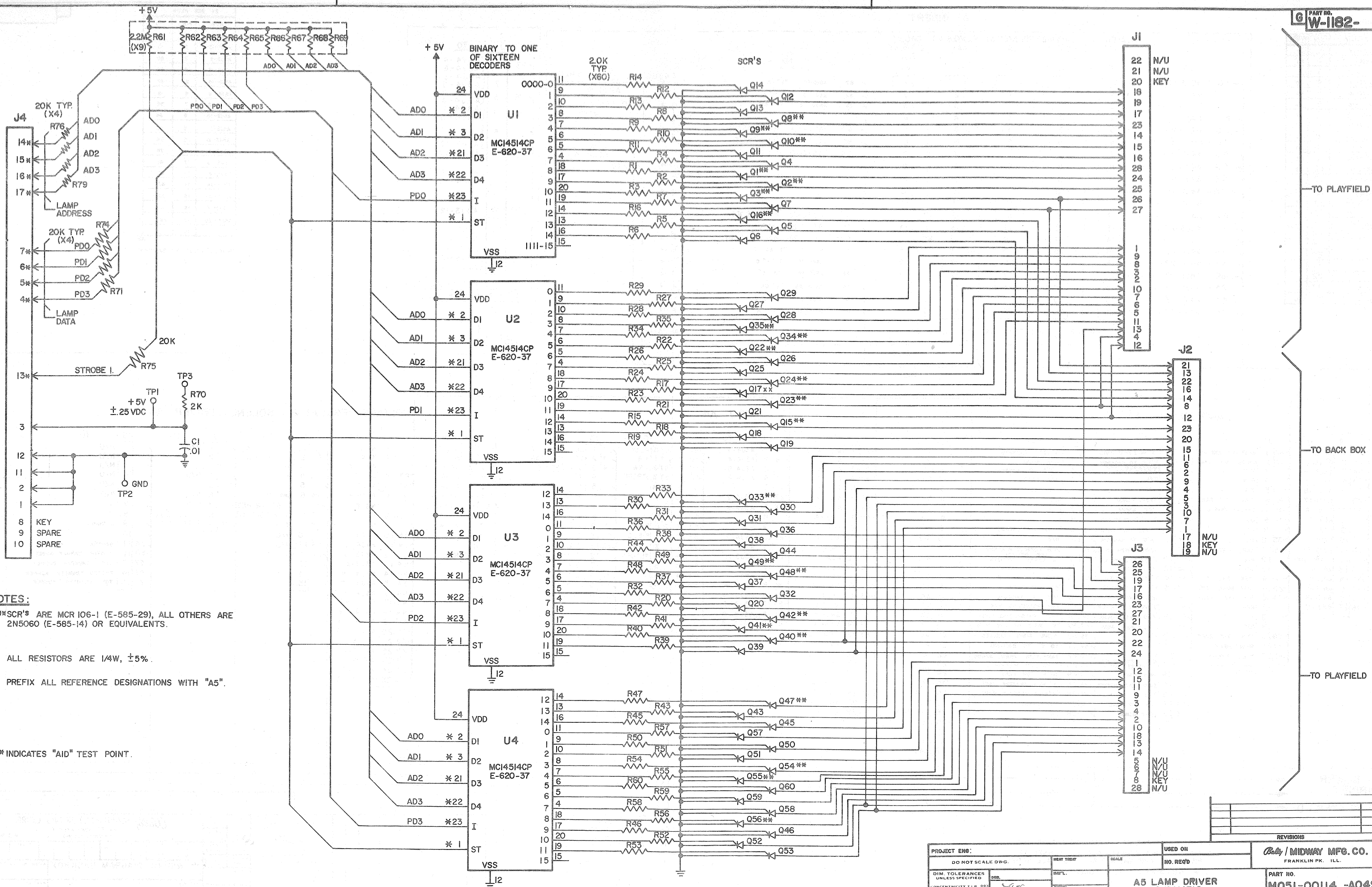


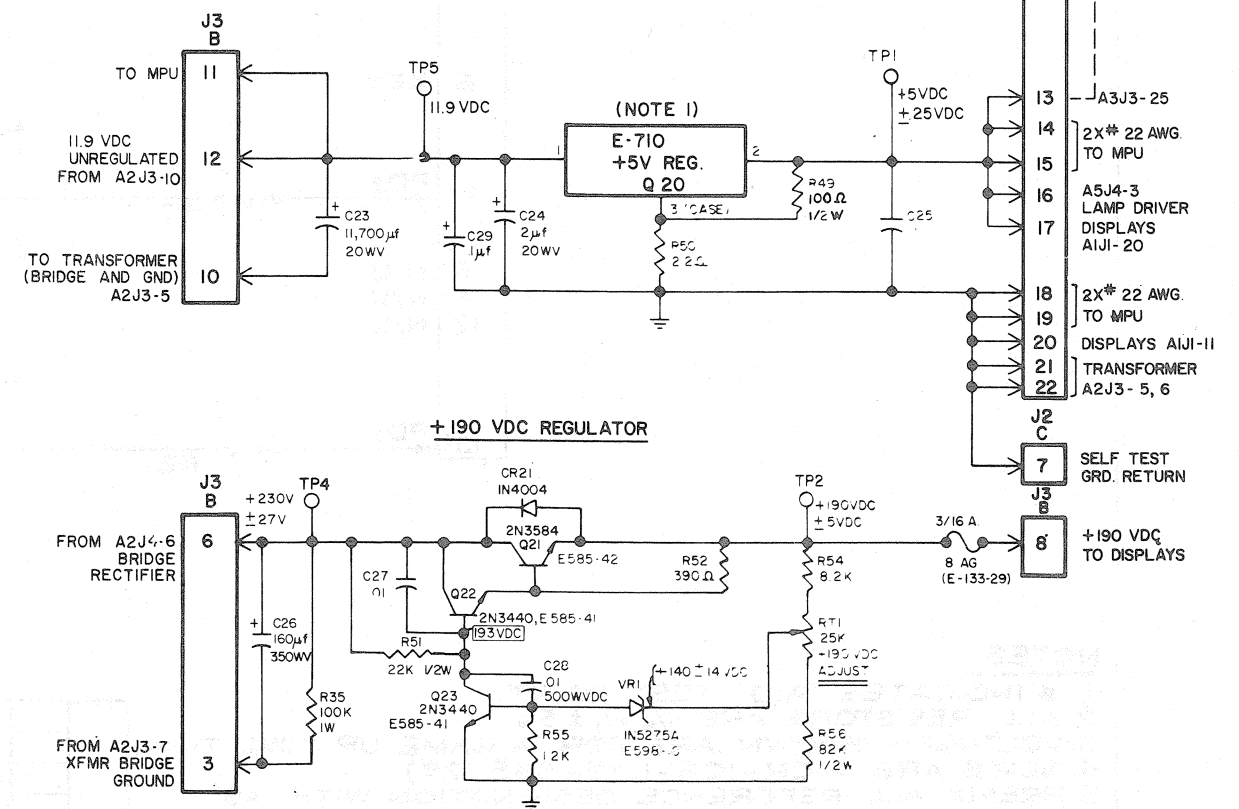
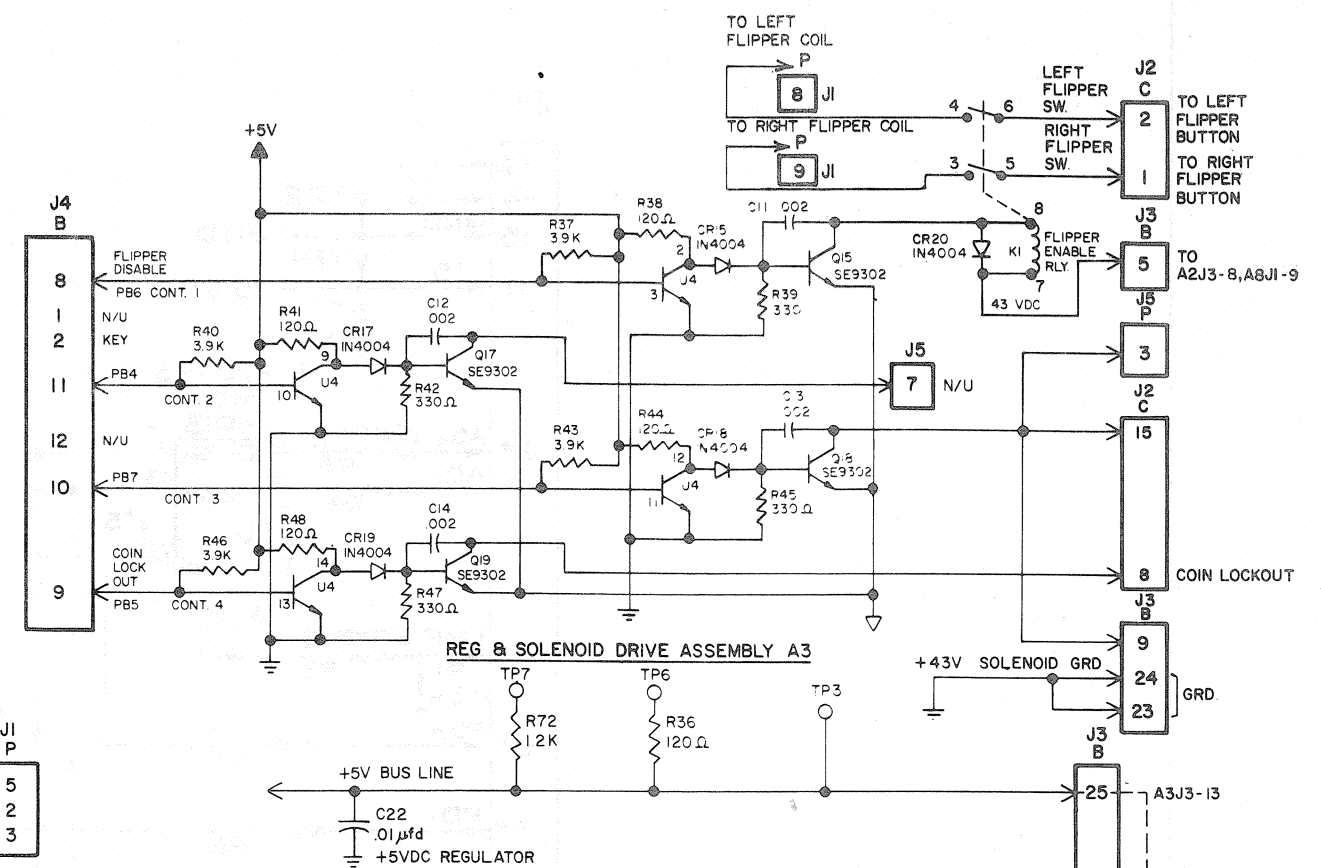
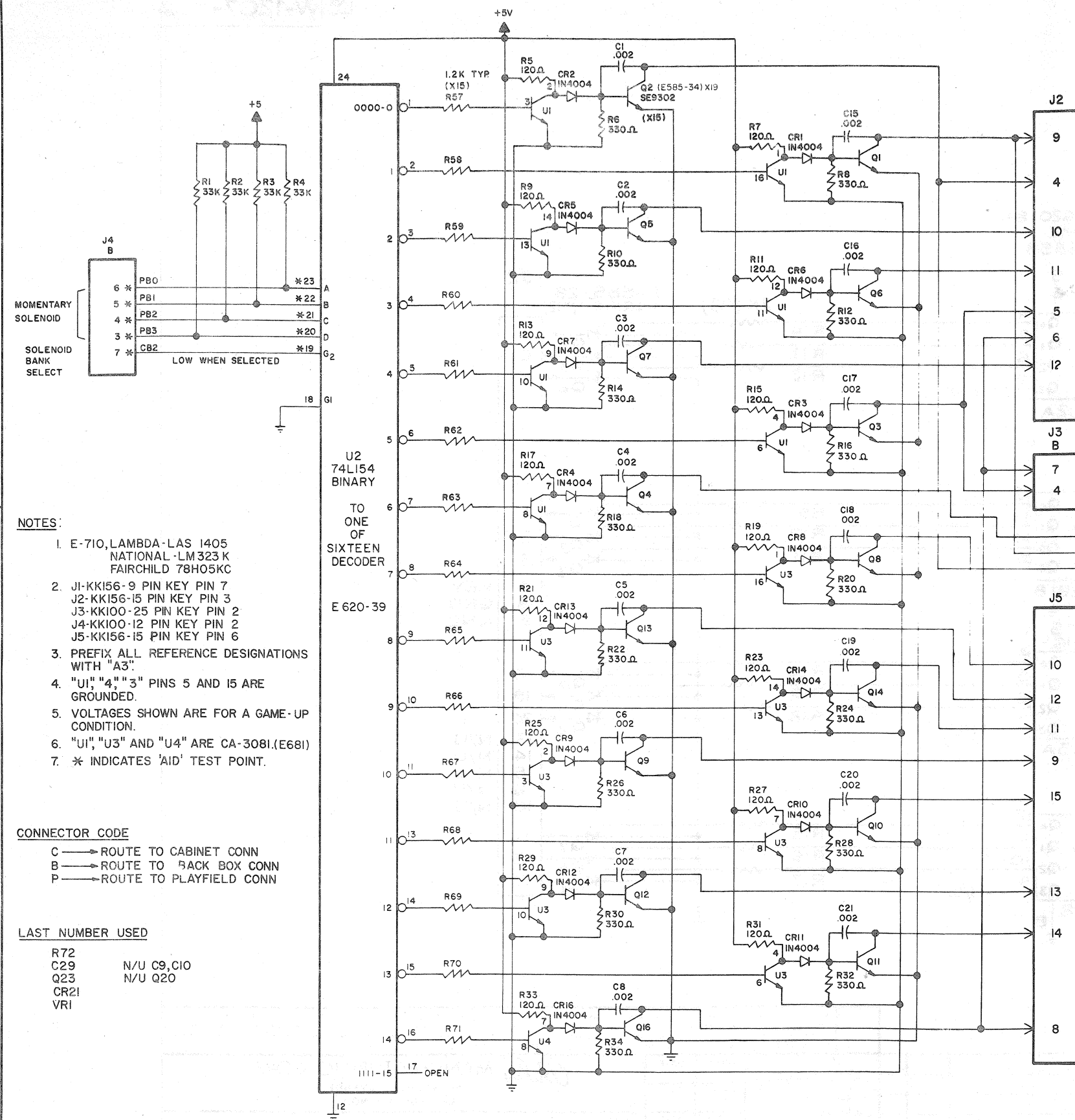
NOTES:

1. THESE PINS ARE RESERVED FOR FUTURE USE.
2. WIRE COLOR ARE SHOWN FOR ALL CONNECTOR PINS, SOME WIRE MAY NOT BE USED IN ALL GAMES.
3. * INDICATES AID TEST POINT.

WIRE COLOR CODE	
1 RED	6 BROWN
2 BLUE	7 ORANGE
3 YELLOW	8 BLACK
4 GREEN	9 GRAY
5 WHITE	0 NO TRACE

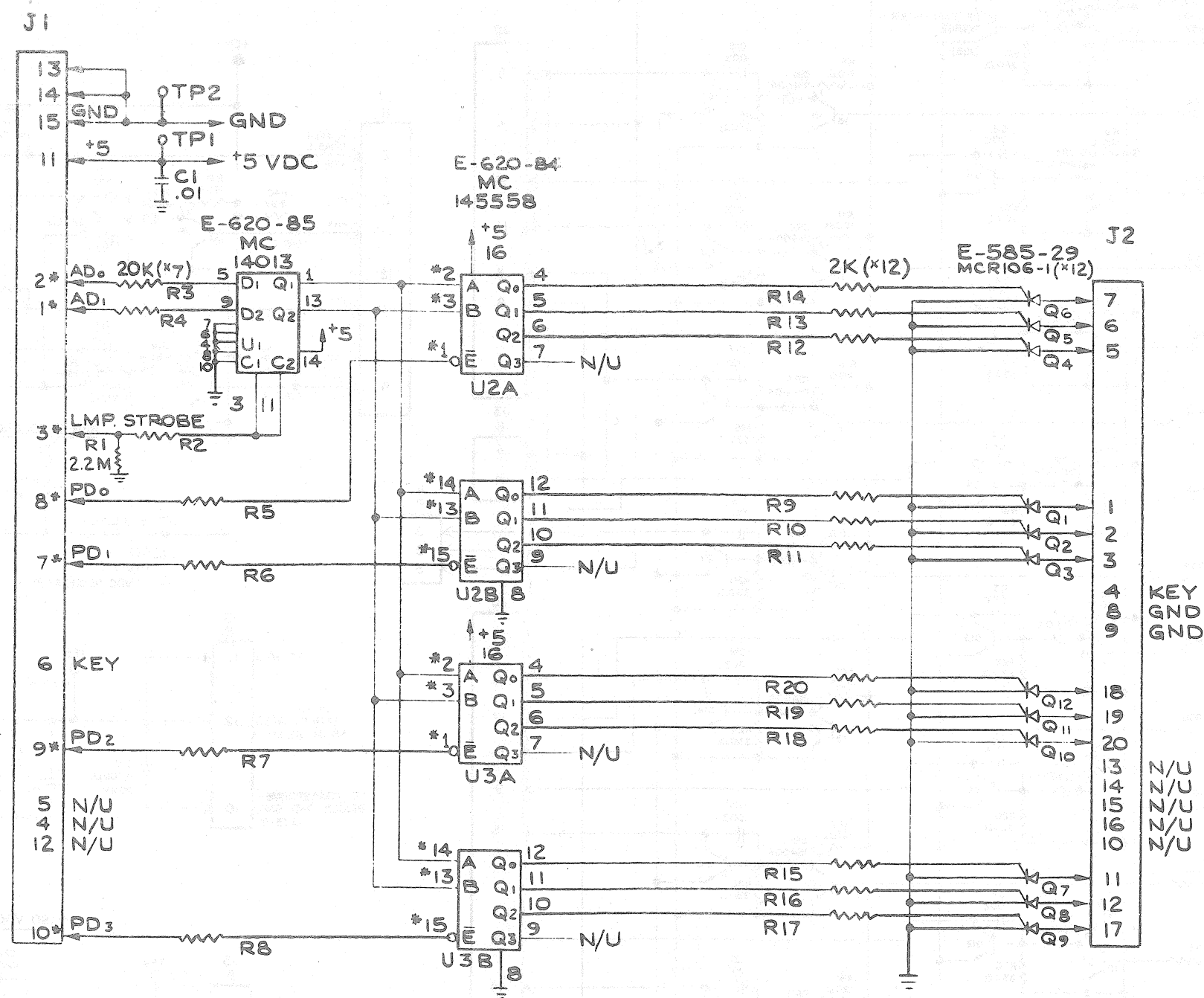
REPAIR ALL GROUPS	IR IN DATE	Bally MANUFACTURING CORP.													
	BY DATE	2640 BELMONT AVENUE													
		CHICAGO ILLINOIS													
TELEPHONE		0591													
DIMENSIONS UNLESS	APPROX DATE	10	11	12	1	2	3	4	5	6	7	8	9	TOTAL	SCALE
STANDARD SPECIFICATIONS	APPROX DATE	11/10	11/11	11/12	12/1	12/2	12/3	12/4	12/5	12/6	12/7	12/8	12/9		
DE MOUNTING DATA	NAME	WIRING DIAGRAM BACKBOX										ASSEMBLY USED ON			
ANALYSIS	WATER											MOB NO			
DE MOUNTING DATA	HARDENING	X'S & O'S										MOBI-00591-A009			





REVISIONS

PROJECT ENG:		USED ON		Bely / MIDWAY MFG.CO. FRANKLIN PK. ILL.
DO NOT SCALE DWG.		MEAT TREAT	NO. REQ'D	
DIM. TOLERANCES UNLESS SPECIFIED		SLIP 'L.	SOLENOID DRIVER VOLTAGE REGULATOR SCHEMATIC	
CONCENTRICITY F.R. .003		FIGURE		
FRACTIONAL 1/64				
DECIMAL005				
HOLE DIA. +.002 - .000		DATE 7/20/83		PART NO. MO51-00114- A04



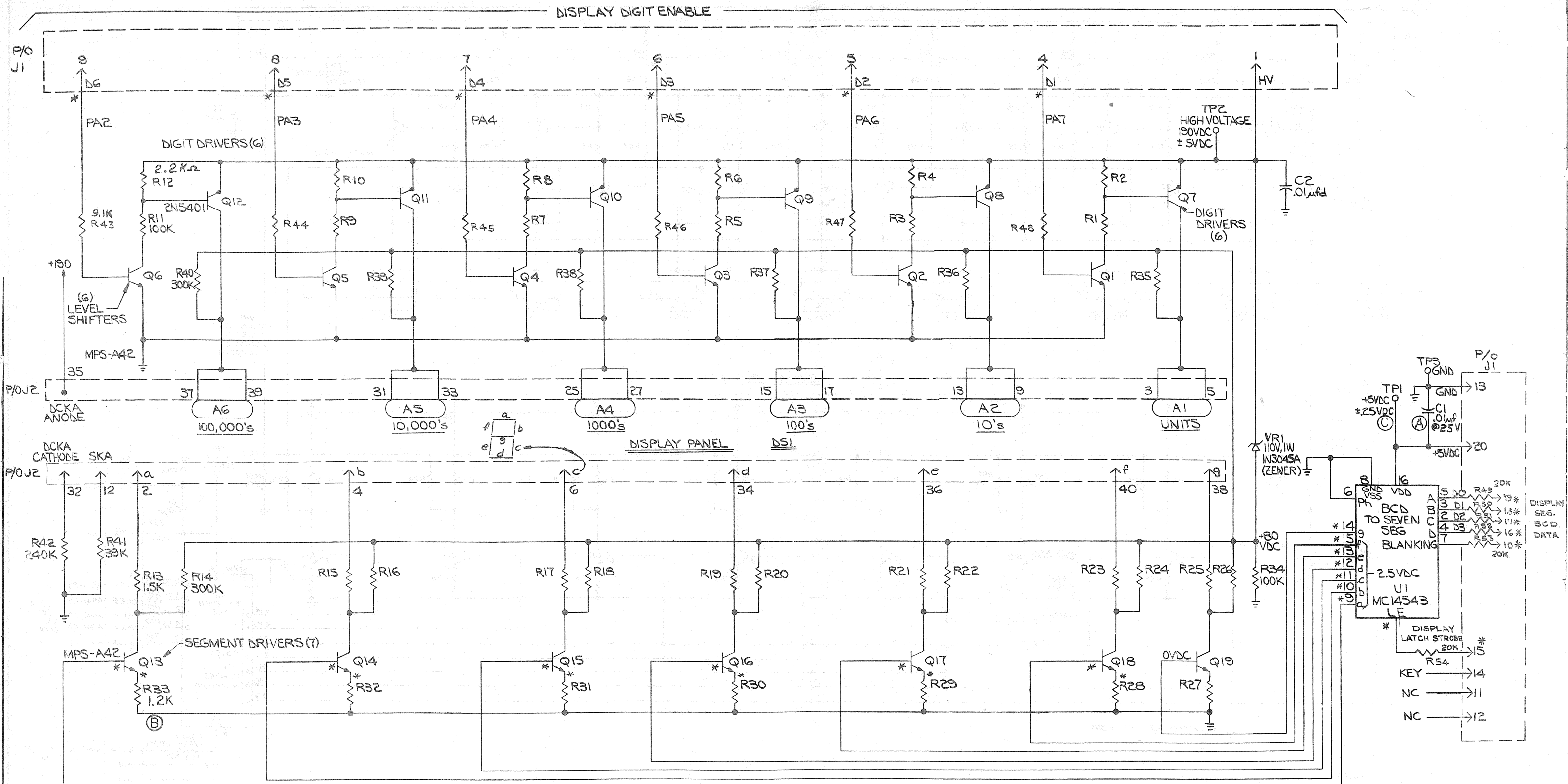
NOTES:

1. * INDICATES "AID" TEST POINT.
2. ALL RESISTORS ARE 1/4 W, ±5%
3. VOLTAGES SHOWN ARE FOR A GAME UP CONDITION.
4. SCR'S ARE MCR-106-1, (E-585-29)
5. PREFIX ALL REFERENCE DESIGNATION WITH "A9"

OPER.	DEPT.	DESCRIPTION	TOOL NO.
-------	-------	-------------	----------

NO.	LET.	CHANGE	DATE	BY

REMOVE ALL BURRS TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED FRACTIONS DECIMALS EXCEPT HOLE DIA'S ANGLES DO NOT SCALE DRAWING				DR BY CK BY AP'D BY DATE 7-20-83 FINISH HARDENING	Bally MANUFACTURING CORP. 2640 BELMONT AVENUE CHICAGO, ILLINOIS PRINT CONTROL NAME (A9) AUXILIARY LAMP DRIVER BOARD MATERIAL CODE		ASSEM NO USED SCALE M051-00114-A051
---	--	--	--	---	---	--	---



NOTES:

- UNLESS OTHERWISE SPECIFIED ALL RESISTORS ARE $\pm 5\%$, 1/4W.
- PREFIX ALL REFERENCE DESIG. WITH ASSEMBLY REFERENCE DESIG. "A1"
- * INDICATES 'AID' TEST POINT.

DIE SIZE — C.C. — FT. PER M — LBS. PER M —

ALL DESIGN, OPERATIVE AND PROCESS DATA PERTAINING TO THE ARTICLE SHOWN ON THIS SHEET IS THE PROPERTY OF BALLY MFG. CORP., CHICAGO, ILL. THIS INFORMATION IS DISCLOSED IN CONFIDENCE AND IS NOT TO BE COPIED, REPRODUCED, REVEALED TO OR APPROPRIATED BY OTHERS, IN PART OR IN WHOLE, WITHOUT THE EXPRESS CONSENT OF THE OWNERS. THE PRINT IS LOANED AND MUST NOT BE USED IN ANY MANNER DETRIMENTAL TO THE INTEREST OF THE OWNERS, AND MUST BE RETURNED ON DEMAND.

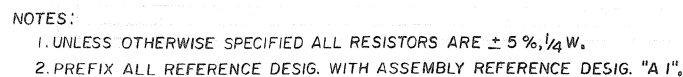
REMOVE ALL BURRS		DR. BY DATE		CR. BY DATE		PRINT CONTROL		FINISH		HARDENING		BALLY MANUFACTURING CORP.		ASSEMBLY NO. USED ON/W	
		DS 7772		7-8-77		7-8-77		7-8-77		7-8-77		2640 BELMONT AVENUE CHICAGO, ILLINOIS		AS-2518-21	
		NOV 10 1977													
3	C	WAS VAC	6-20-80	J.D.											
2	B	WAS 1K	3-28-80	J.D.											
1	A	WAS 500V	4-16-79	J.D.											
NO.	LET.	CHANGE	DATE	BY	CK.										

DO NOT SCALE DRAWING

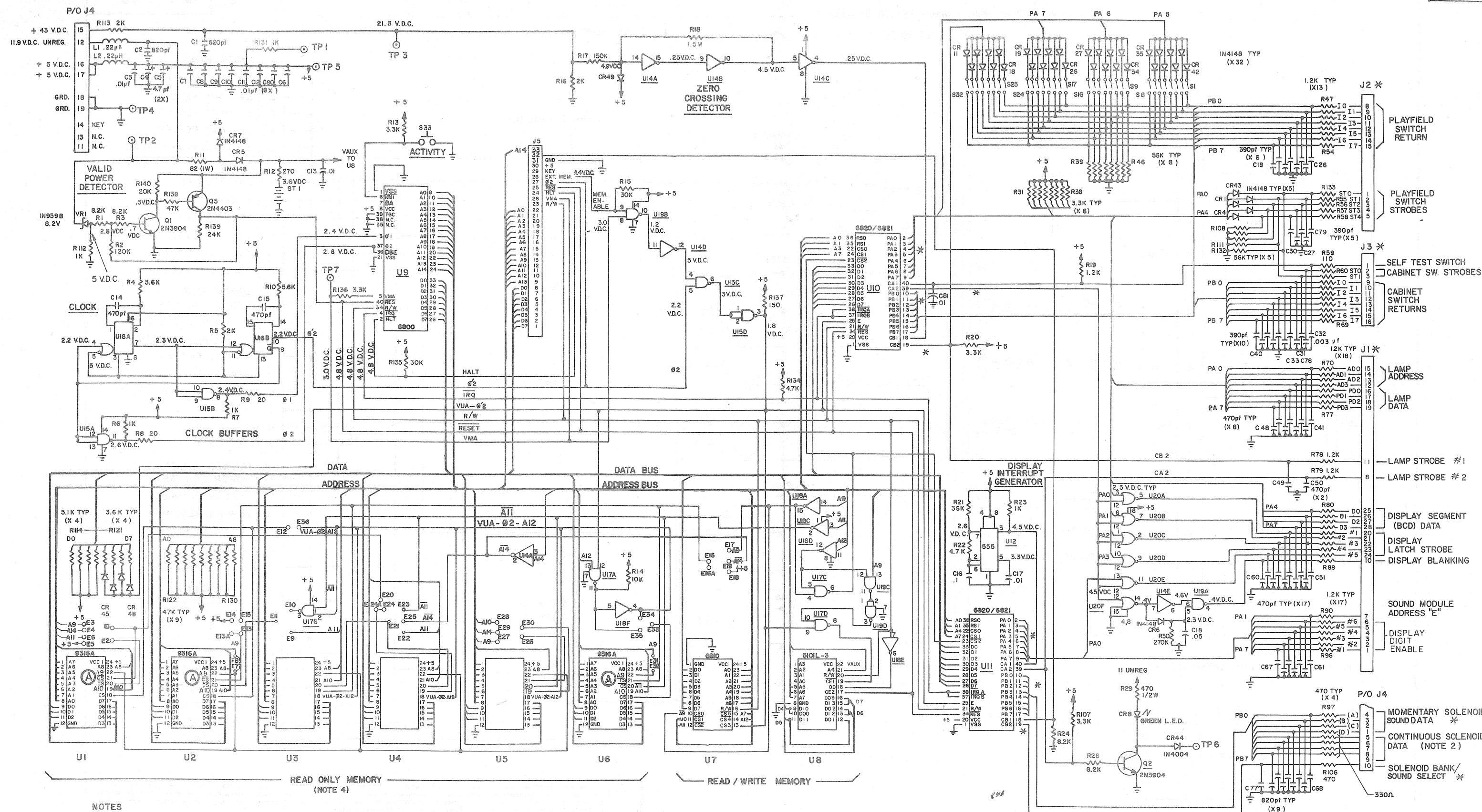
NAME: 6 DIGIT DISPLAY BOARD SCHEMATIC "A1"

MATERIAL: W-1184-1c

OPER.	DEPT.	DESCRIPTION	TOOL No.
-------	-------	-------------	----------



				ALL DESIGN, OPERATIVE AND PROCESS DATA PERTAINING TO THE ARTICLE SHOWN ON THIS SHEET IS THE PROPERTY OF BALLY MFG. CORP., CHICAGO, ILL. THIS INFORMATION IS DISCLOSED IN CONFIDENCE AND IS NOT TO BE COPIED, REPRODUCED, REVEALED TO OR APPROPRIATED BY OTHERS. IN PART OR IN WHOLE, WITHOUT THE EXPRESS CONSENT OF THE OWNERS. THE PRINT IS LOANED AND MUST NOT BE USED IN ANY MANNER DETRIMENTAL TO THE INTEREST OF THE OWNERS, AND MUST BE RETURNED ON DEMAND.			
				REMOVE ALL BURNS TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED FRACTIONS = .008 DECIMALS = .003 EXCEPT HOLE DIA'S ANGLES = 1/2" DO NOT SCALE DRAWING DR. BY <u>FFC</u> DATE <u>6-18-0</u> CK. BY <u>amcr</u> DATE <u>6-19-00</u> AP'D BY _____ DATE _____ AP'D BY <u>amcr</u> DATE <u>6-19-00</u> FINISH: <u>✓</u> HARDENING: _____ Bally MANUFACTURING CORP. 2640 BELMONT AVENUE CHICAGO, ILLINOIS PRINT CONTROL DIE SIZE. C.C. FT. PER M. LBS. PER M. NAME 7 DIGIT DISPLAY BOARD SCHEMATIC "A1" MATERIAL CODE ASSEM. NO. USED AS-2518-58 PART NO. W-1184-2 c SCALE <u>✓</u>			

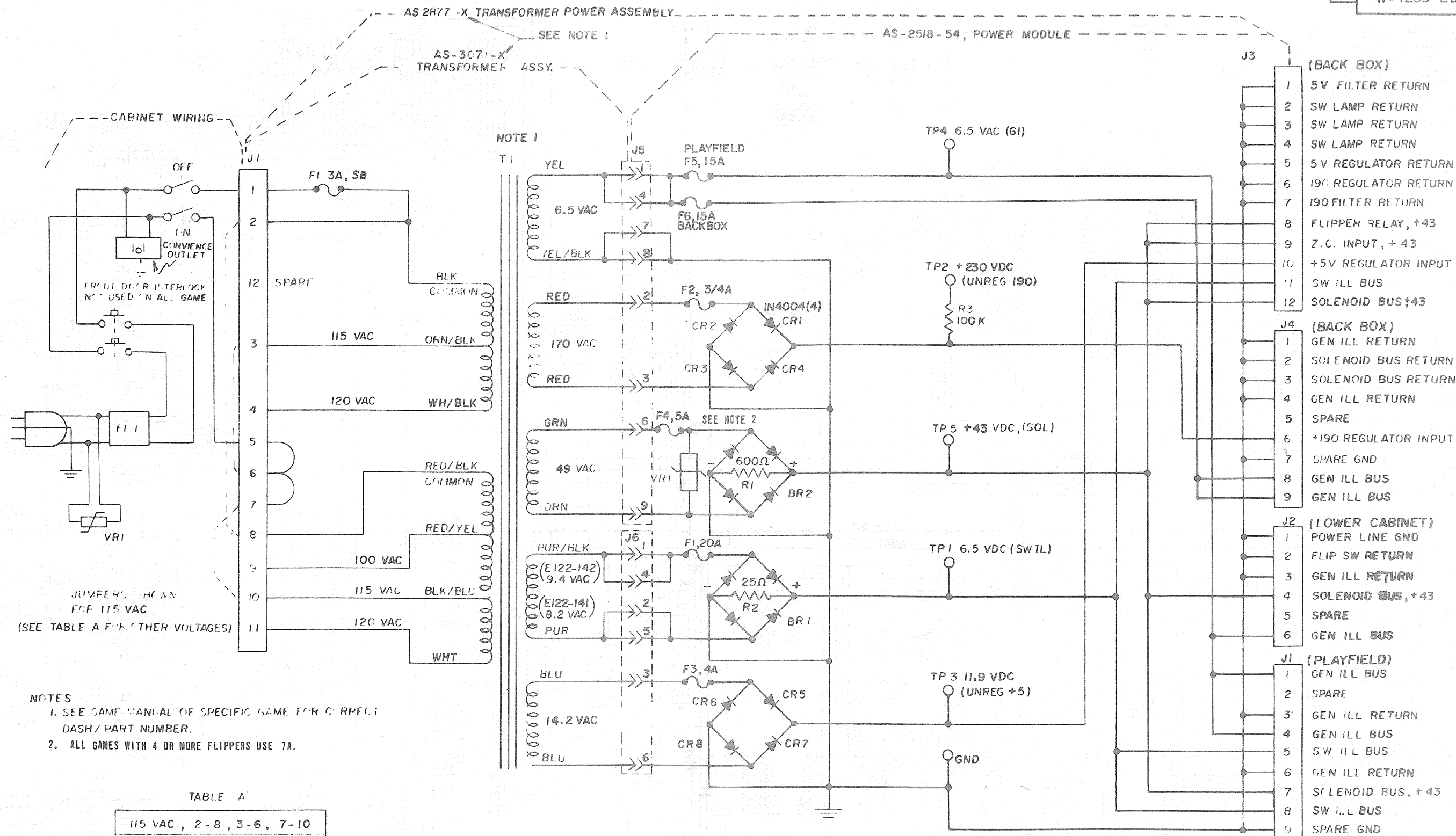


NOTES

1. * INDICATES "AID" TEST POINT.
2. REMOVE A3J4 BEFORE USING
AS AID TEST POINT
3. PREFIX ALL REFERENCE
DESIGNATIONS WITH "A4"
4. EXACT CHIP COMPLEMENT USED IN SOCKETS U1 THRU U6
CAN VARY FOR DIFFERENT GAMES AND PRODUCTION LOTS.
TABLES OF MEMORY CHIPS AND CORRESPONDING
JUMPERS FOR DIFFERENT GAMES AVAILABLE FROM
BALLY FIELD SERVICE DEPARTMENT.

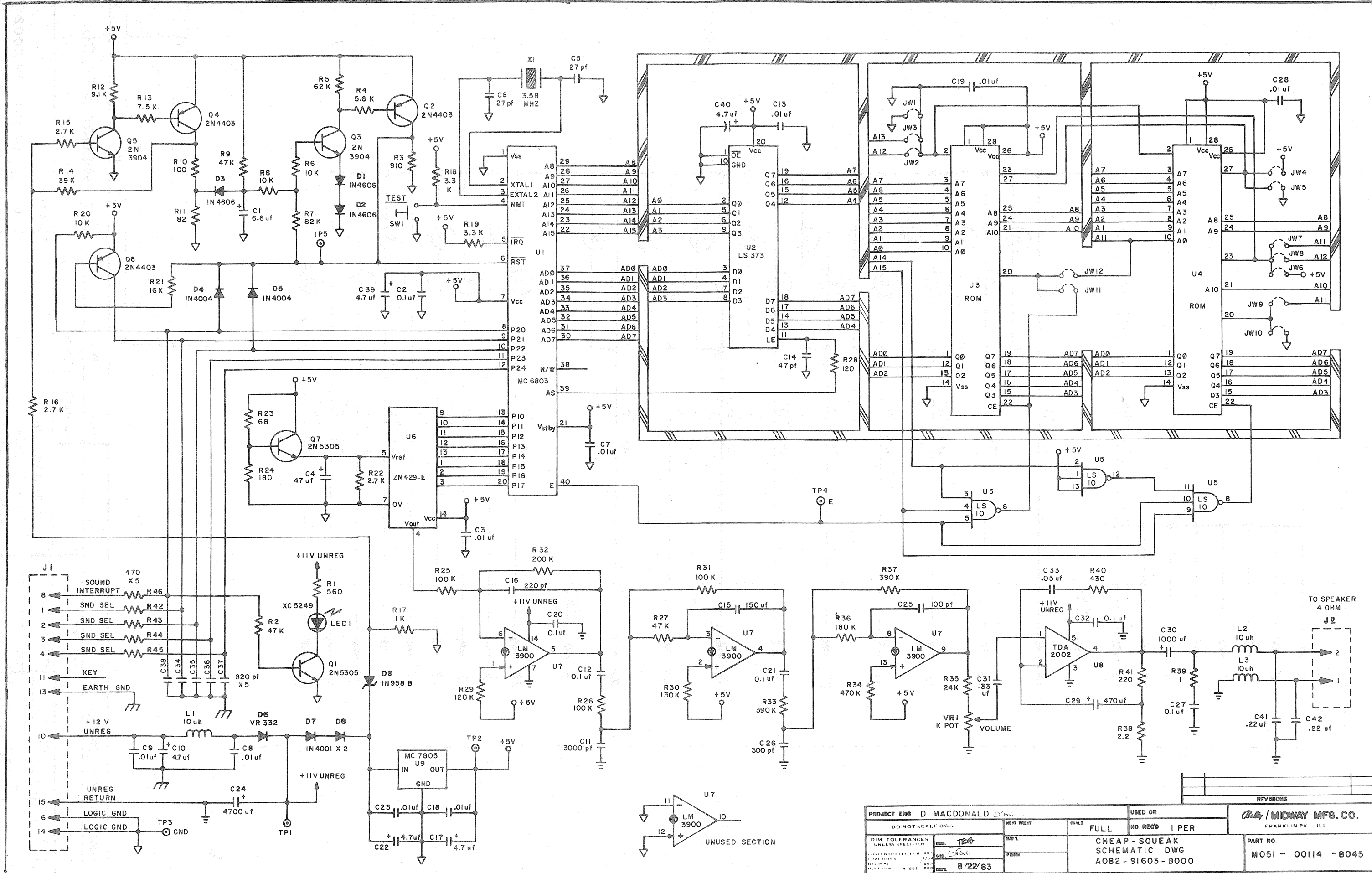
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REMOVE ALL BURRS		DR. BY		DATE		Bally MANUFACTURING CORP.									
		CR. BY		DATE		2640 BELMONT AVENUE									
		CR. BY		DATE		CHICAGO, ILLINOIS									
TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED		APD BY		DATE		1119-E									
FRACTIONS - 1/64		APD BY		DATE											
DECIMALS - .005		FINISH		DATE											
ANGLES - °															



ALL DESIGN, OPERATIVE AND PROCESS DATA PERTAINING TO THE ARTICLE SHOWN ON THIS SHEET IS THE PROPERTY OF BALLY MFG. CORP., CHICAGO, ILL. THIS INFORMATION IS DISCLOSED IN CONFIDENCE AND IS NOT TO BE COPIED, REPRODUCED, REVEALED TO OR APPROPRIATED BY OTHERS, IN PART OR IN WHOLE, WITHOUT THE EXPRESS CONSENT OF THE OWNERS. THE PRINT IS LOANED AND MUST NOT BE USED IN ANY MANNER DETRIMENTAL TO THE INTEREST OF THE OWNERS, AND MUST BE RETURNED ON DEMAND.

REMOVE ALL BURRS		DR. BY FFC	DATE	Bally MANUFACTURING CORP. 2640 BELMONT AVENUE CHICAGO, ILLINOIS # 1273	
		CK. BY AMCR	DATE		
TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED FRACTIONS ± .008 DECIMALS ± .003 EXCEPT HOLE DIA.'S ANGLES ± 1/2°		AP'D BY 3-D	DATE 7-13-82	PRINT CONTROL	DIE SIZE. C.C. FT. PER M. LBS. PER M.
		AP'D BY 2-D	DATE 7-13-82	NAME	POWER SUPPLY SCHEMATIC
DO NOT SCALE DRAWING		FINISH:		MATERIAL	ASSEM. NO. USED SCALE
		HARDENING:			PART NO. W-1233-2b



PROJECT ENG: D. MACDONALD		USED ON		REVISIONS	
DO NOT SCALE DWG		SCALE		FULL	
DIM TOLERANCES UNLESS SPECIFIED		NO. REQ'D		1 PER	
CHEAP - SQUEAK SCHEMATIC DWG		A082 - 91603 - B000		PART NO.	
A082 - 91603 - B000		M051 - 00114 - B045		FRANKLIN PK ILL	

