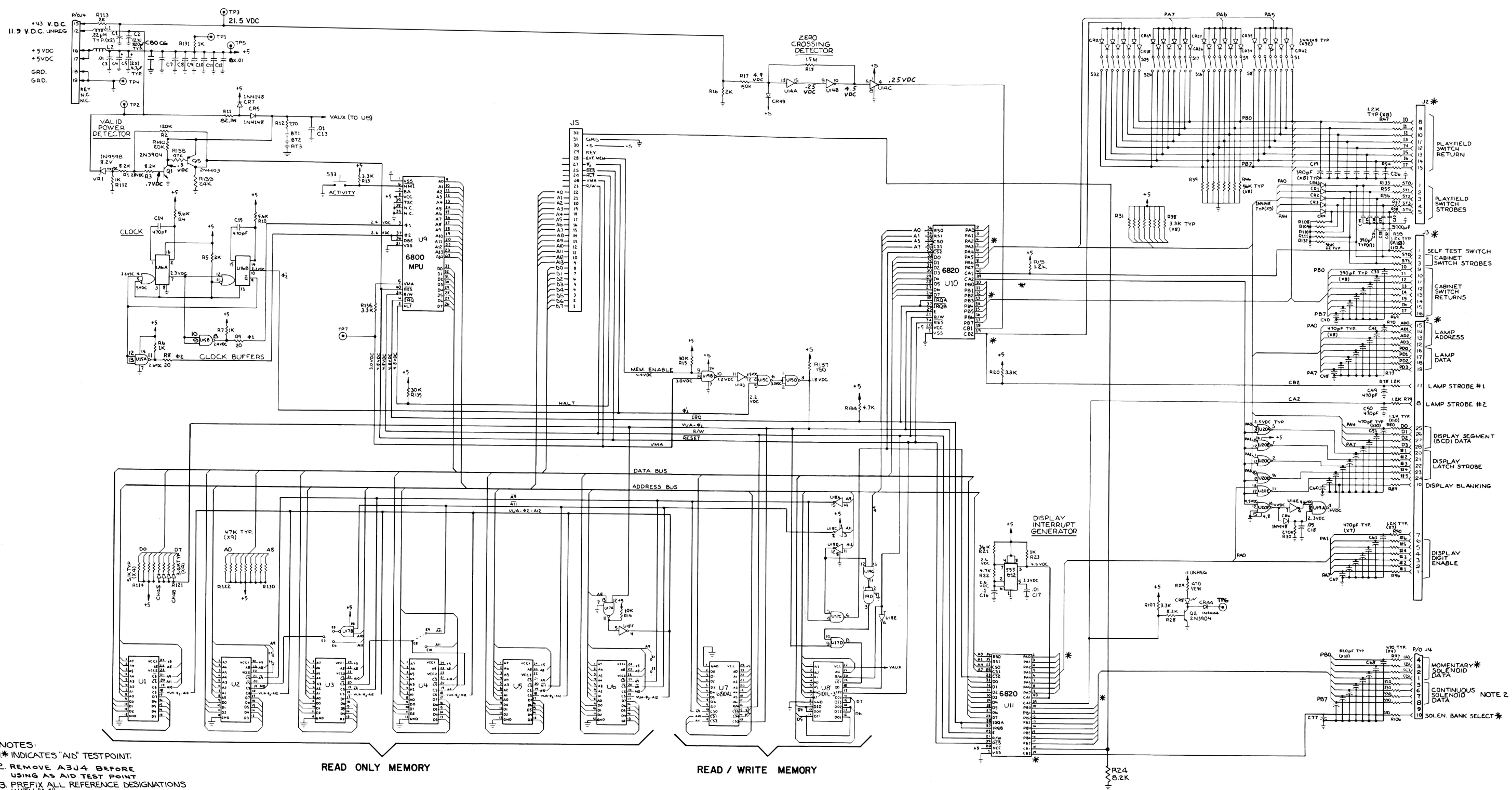




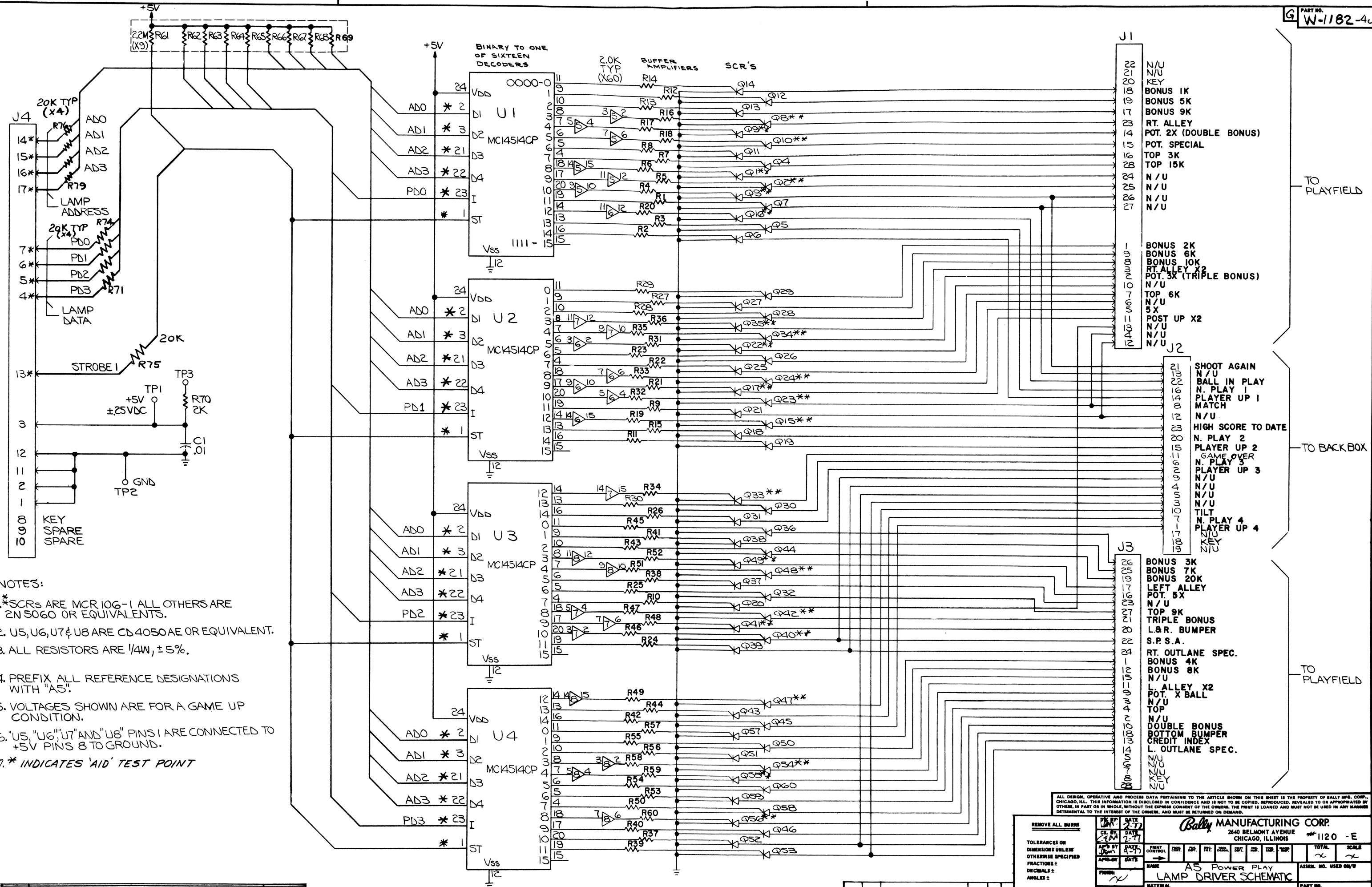
NOTES:
1. * INDICATES "AID" TESTPOINT.
2. REMOVE A3J4 BEFORE USING AS AID TEST POINT
3. PREFIX ALL REFERENCE DESIGNATIONS WITH "A4".

READ ONLY MEMORY

READ / WRITE MEMORY

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		Bally MANUFACTURING CORP. 1094-E	
TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED		CK. BY DATE		FEB 21 1977	
FRACTIONS: 1/64		AP'D BY DATE		2640 BELMONT AVENUE	
DECIMALS: .005		FINISH: X		CHICAGO, ILLINOIS	
ANGLES: 1°		HARDENING: X		NAME (A4)	
DO NOT SCALE DRAWING		MATERIAL		MPU CONTROL BOARD SCHEMATIC	
NO. LET. CHANGE DATE BY CK.		ASSEMBLY NO. USED ON/W		PART NO.	
				W-1181-2c	



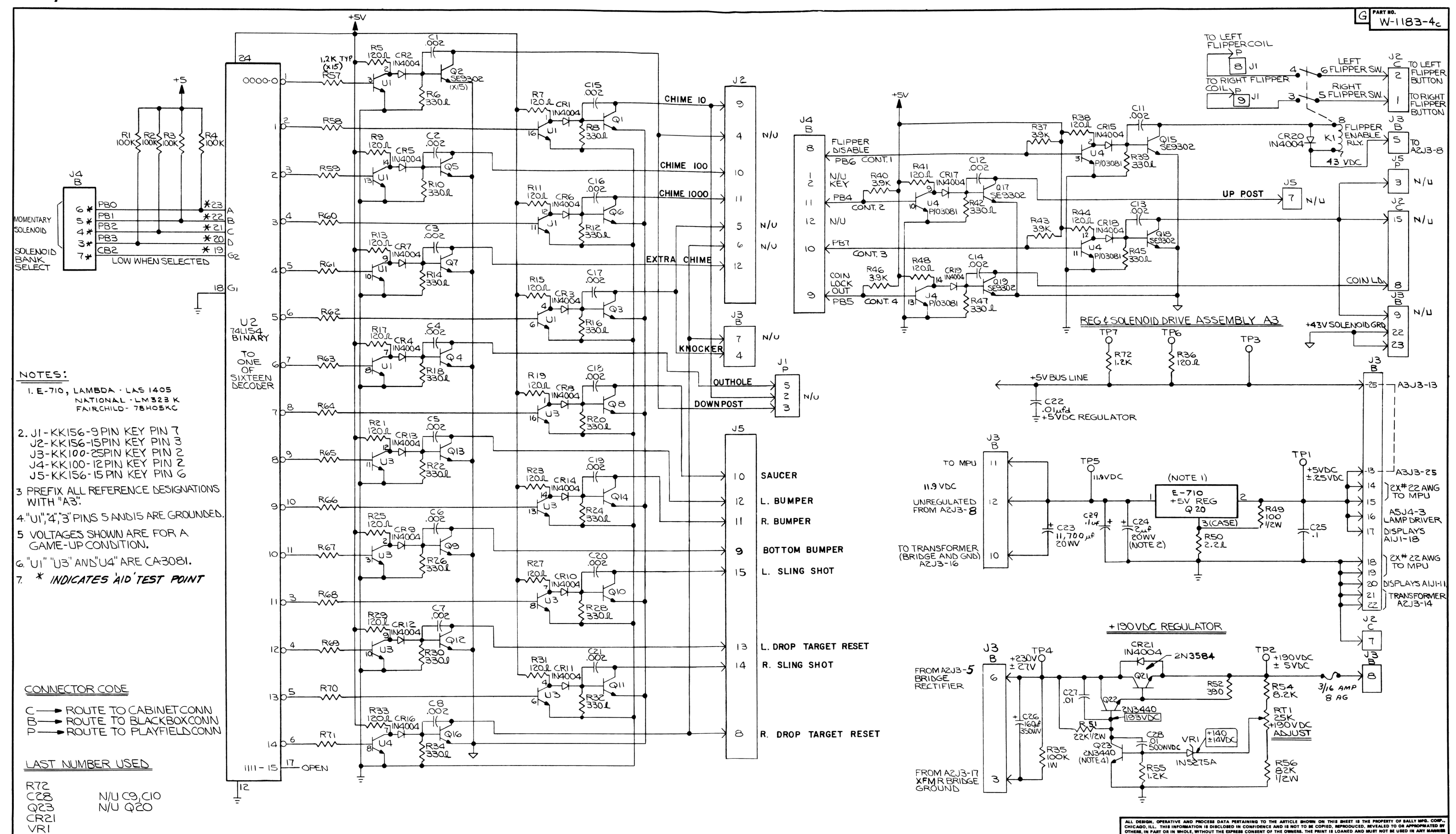
NOTES:

1. *SCRs ARE MCR 10G-1 ALL OTHERS ARE 2N 5060 OR EQUIVALENTS.
2. U5, U6, U7 & U8 ARE CD 4050AE OR EQUIVALENT.
3. ALL RESISTORS ARE $1/4W, \pm 5\%$.
4. PREFIX ALL REFERENCE DESIGNATIONS WITH "A5".
5. VOLTAGES SHOWN ARE FOR A GAME UP CONDITION.
6. "U5, "U6", "U7" AND "U8" PINS 1 ARE CONNECTED TO +5V PINS 8 TO GROUND.
7. * INDICATES 'AID' TEST POINT

ALL DESIGN, OPERATIVE AND PROCESS DATA PERTAINING TO THE ARTICLE SHOWN ON THIS SHEET IS THE PROPERTY OF SALLY 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

DETIMENTAL TO THE INTEREST OF THE OWNERS, AND MUST BE RETURNED ON DEMAND.

<u>REMOVE ALL BURS</u> TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED FRACTIONS : DECIMALS : ANGLES : <u>DO NOT SCALE DRAWING</u>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">DATE 12-27</td> <td style="width: 15%;">DATE 12-27</td> </tr> <tr> <td>DR. BY SEM</td> <td>DATE 12-27</td> </tr> <tr> <td>APP'D BY Don</td> <td>DATE 12-27</td> </tr> <tr> <td>APP'D BY</td> <td>DATE</td> </tr> </table>	DATE 12-27	DATE 12-27	DR. BY SEM	DATE 12-27	APP'D BY Don	DATE 12-27	APP'D BY	DATE	Bally MANUFACTURING CORP. 2640 BELMONT AVENUE CHICAGO, ILLINOIS # 1120 - E <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">PRINT CONTROL</td> <td style="width: 10%;">COPY</td> <td style="width: 10%;">CAR.</td> <td style="width: 10%;">FILE</td> <td style="width: 10%;">JESSEL</td> <td style="width: 10%;">SEAT</td> <td style="width: 10%;">MKS.</td> <td style="width: 10%;">1000</td> <td style="width: 10%;">10000</td> <td style="width: 10%;">TOTAL</td> <td style="width: 10%;">SCALE</td> </tr> <tr> <td style="text-align: center;">→</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td style="text-align: center;">x</td> <td style="text-align: center;">x</td> </tr> </table> NAME AS POWER PLAY LAMP DRIVER SCHEMATIC ASSN. NO. USED ON/W PART NO. W-1102-4	PRINT CONTROL	COPY	CAR.	FILE	JESSEL	SEAT	MKS.	1000	10000	TOTAL	SCALE	→									x	x
DATE 12-27	DATE 12-27																															
DR. BY SEM	DATE 12-27																															
APP'D BY Don	DATE 12-27																															
APP'D BY	DATE																															
PRINT CONTROL	COPY	CAR.	FILE	JESSEL	SEAT	MKS.	1000	10000	TOTAL	SCALE																						
→									x	x																						

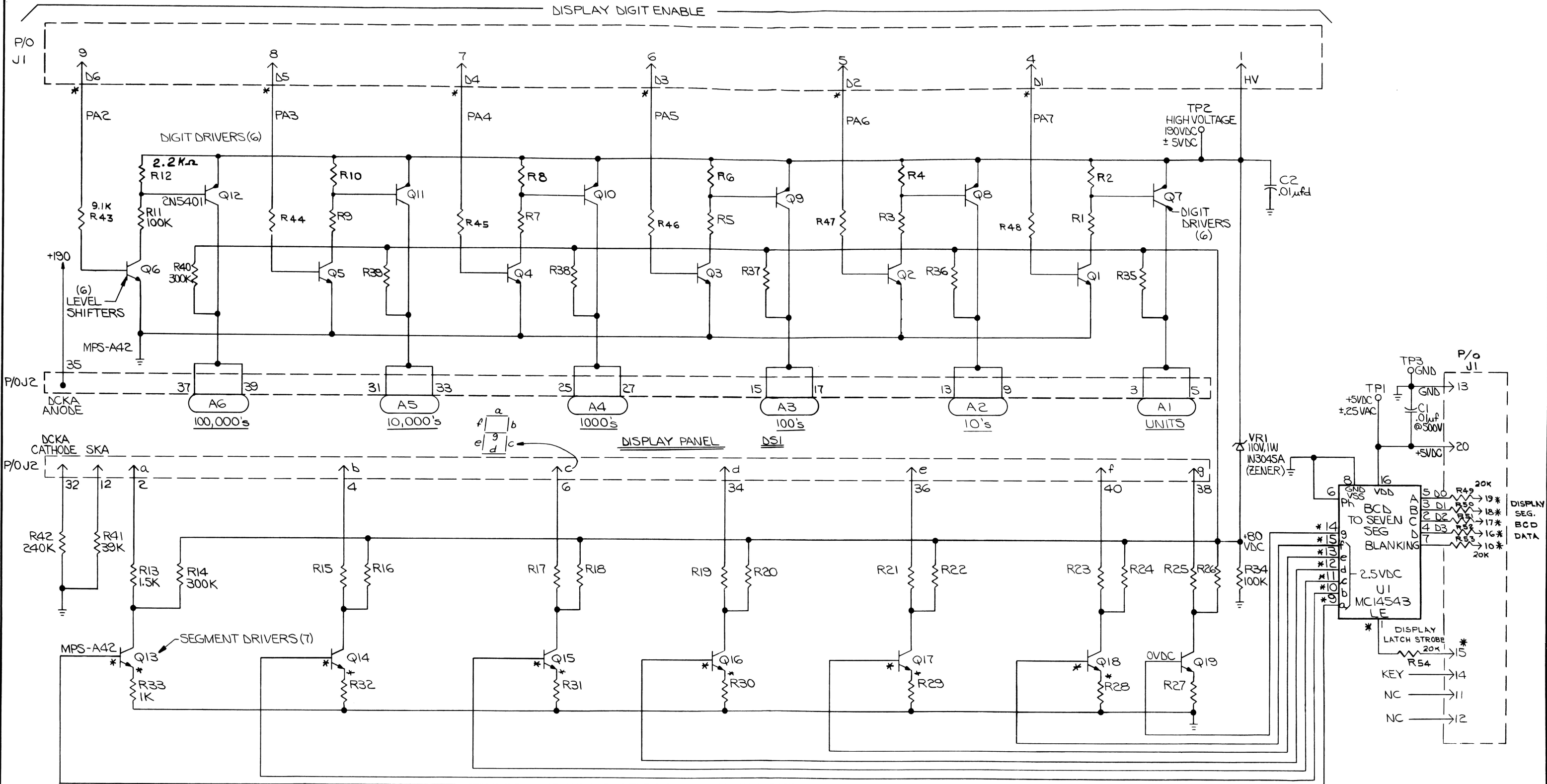


ALL DESIGN, OPERATIVE AND PROCESS DATA PERTAINING TO THE ARTICLE SHOWN ON THIS SHEET IS THE PROPERTY OF SALLY MFG. CO., CHICAGO, ILL. THIS INFORMATION IS DISCLOSED IN CONFIDENCE AND IS NOT TO BE COPIED, REPRODUCED, REVEALED TO OR APPROPRIATED BY OTHERS, IN PART OR IN WHOLE, WITHOUT THE EXPRESS CONSENT 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 TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED FRACTIONS : DECIMALS : ANGLES : DO NOT SCALE DRAWING		DRAWN BY: <u>W.B.</u> DATE: <u>1-27</u> CR. BY: <u>CSN</u> DATE: <u>1-27</u> APP'D BY: <u>DM</u> DATE: <u>1-27</u> PART CONTROL: <u>→</u> FINISH: <u>✓</u> HARDENING: <u>✓</u>										Bally MANUFACTURING CORP. 2640 BELMONT AVENUE CHICAGO, ILLINOIS 1120-E NAME: <u>A3 Power Play, SOLENOID DRIVER</u> VOLTAGE REGULATOR SCHEMATIC MATERIAL:										TOTAL: <u>✓</u> SCALE: <u>✓</u> PART NO.: <u>W-1183-4c</u>	
--	--	---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

NO.	LET.	CHANGE	DATE	BY	CHK
-----	------	--------	------	----	-----

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



NOTES:

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

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

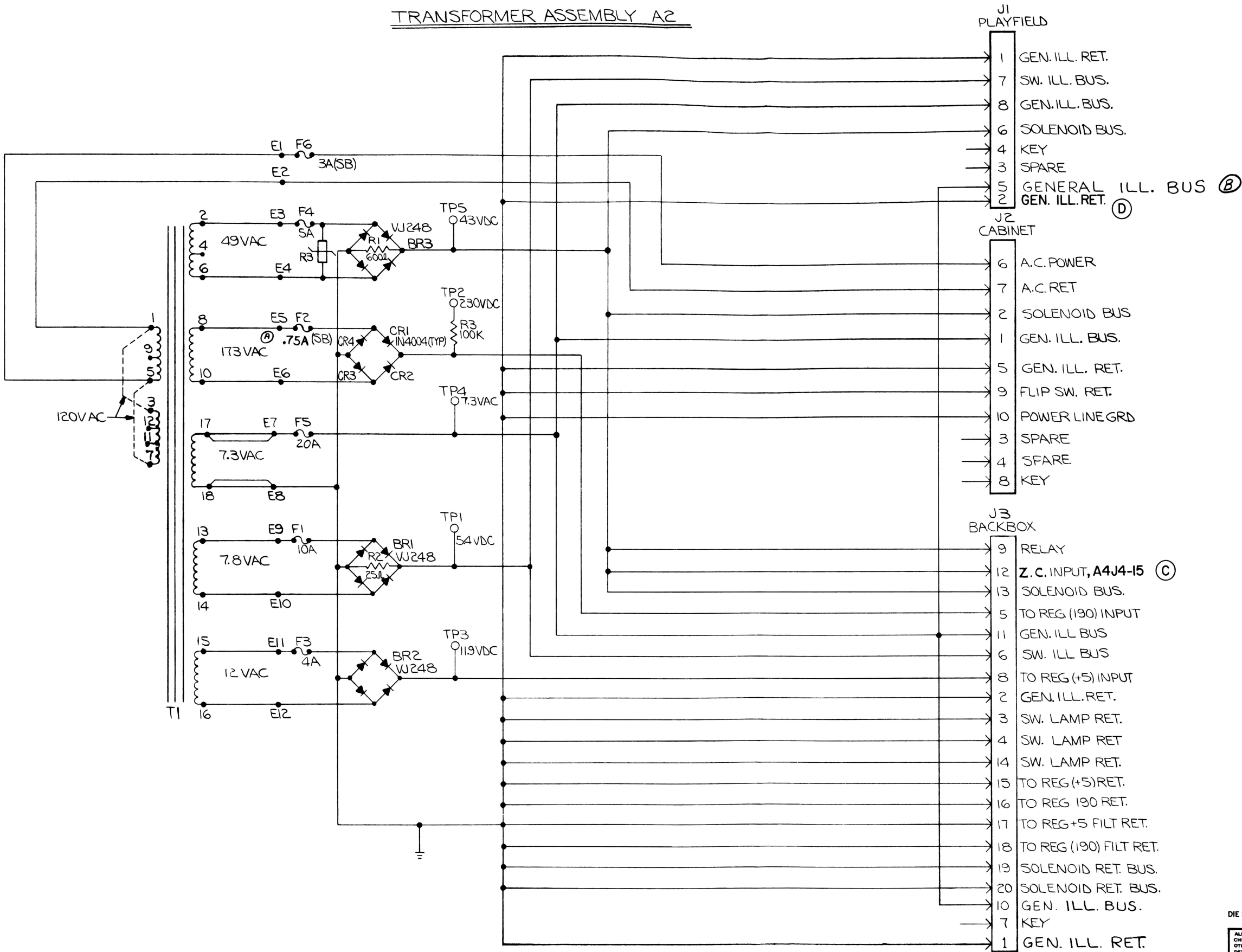
ALL DESIGN, OPERATIVE AND PROCESS DATA PERTAINING TO THE ARTICLE SHOWN ON THIS SHEET IS THE PROPERTY OF BALLY MFG. CORP., CHICAGO, ILL. THIS INFORMATION IS DISCLOSED IN CONFIDENCE AND IS NOT TO BE COPIED, REPRODUCED, REVEALED TO OR APPROPRIATED BY OTHERS, IN PART OR IN WHOLE, WITHOUT THE EXPRESS CONSENT 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 D.E. 7-7-77		CR. BY DATE D.E. 7-8-77		APR. BY DATE D.E. 10-14-77		FINISH: 10/14/77		HARDENING: 10/14/77		DO NOT SCALE DRAWING	
TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED		FRACTIONS: 1/16		DECIMALS: 0.001		ANGLES: 1/2		DO NOT SCALE DRAWING		HARDENING: 10/14/77		DO NOT SCALE DRAWING	
Bally MANUFACTURING CORP. #1120-E 2640 BELMONT AVENUE CHICAGO, ILLINOIS										TOTAL		SCALE	
DISPLAY BOARD SCHEMATIC "A1"										ASSEMB. NO. USED ON/W		PART NO.	
W-1184-1c										AS-2518-21		W-1184-1c	

OPER.	DEPT.	DESCRIPTION	TOOL No.

NO.	LET.	CHANGE	DATE	BY	CK.

TRANSFORMER ASSEMBLY A2



- NOTES:
1. WIRE A.C. POWER AND TERMINALS PER TABLE 1.
 2. VOLTAGES SHOWN ARE FOR GAME IN POWER-UP CONDITION.
 3. PREFIX ALL REFERENCE DESIGNATIONS WITH A2.

TABLE 1 POWER LINE CONNECTIONS		
LINE VOLTAGE VRMS A.C.	STRAP TERMINALS	APPLY POWER TO TERMINALS
115	1 TO 3 AND 9 TO 11	1 AND 9
120	1 TO 3 AND 5 TO 7	1 AND 5
220	3 TO 5	1 AND 12
240	3 TO 5	1 AND 7

1118-F

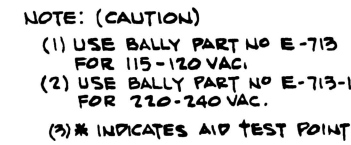
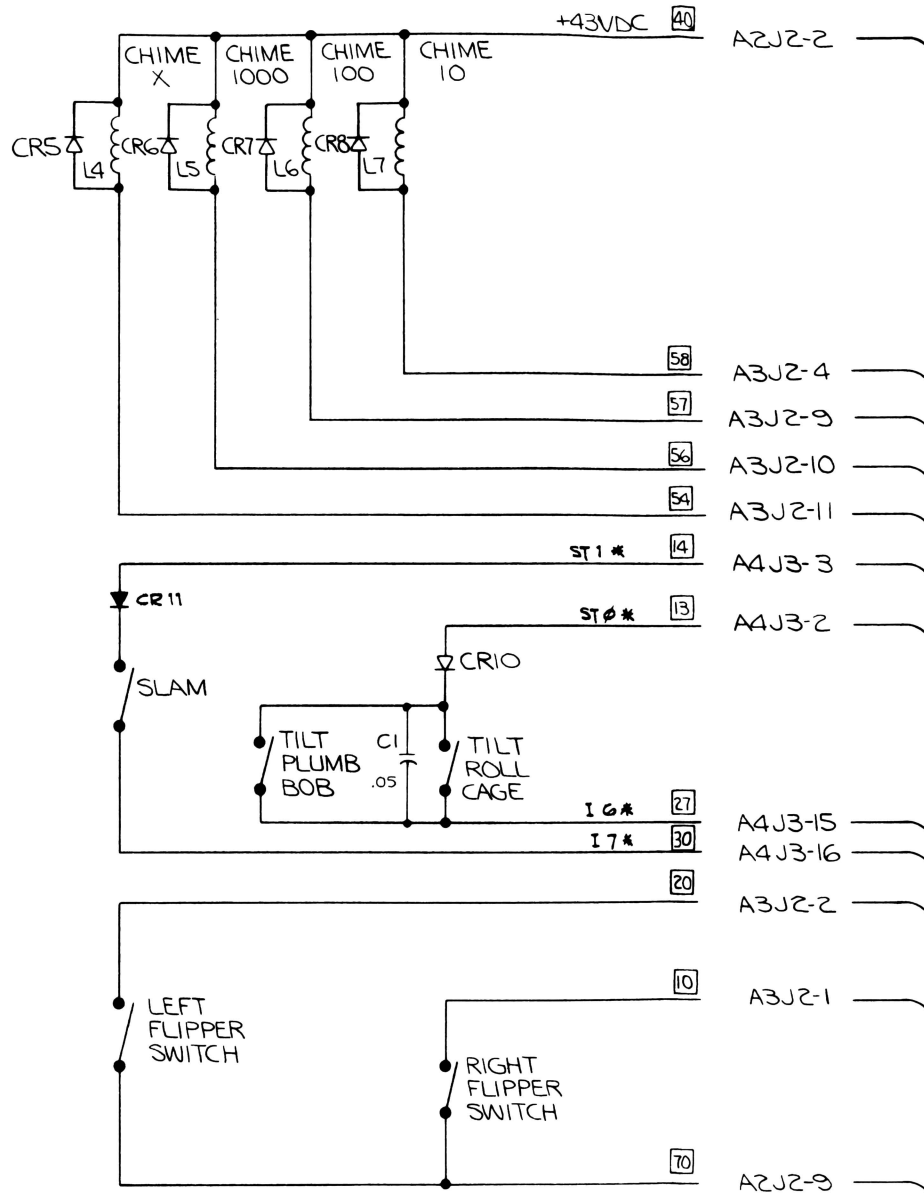
DIE SIZE — C.C. — FT. PER M — LBS. PER M —

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		DATE: 4-26		Bally MANUFACTURING CORP. #1094-E	
TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED		DATE: FEB 21 1977		2640 BELMONT AVENUE CHICAGO, ILLINOIS #1074-E	
FRACTIONS ±		PRINT CONTROL		TOTAL	
DECIMALS ±		DATE: 2-11-77		SCALE	
ANGLES ±		DATE: 2-11-77		ASSEMBLY NO. USED ON/W	
DO NOT SCALE DRAWING		DATE: 2-11-77		MATERIAL	
NO. LET. CHANGE		DATE: 2-11-77		PART NO. W-1185-1c	

2	D	J1-2 READ "GND"	5-20-77	W	W
2	C	J3-12 READ "Z.C. INPUT"	5-20-77	W	W
1	B	ADDED JUMPER J1 5 TO J3-11	5-2-77	W	W
1	A	F2 WAS 5.0A	5-2-77	W	W
NO.	LET.	CHANGE	DATE	BY	CR.

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

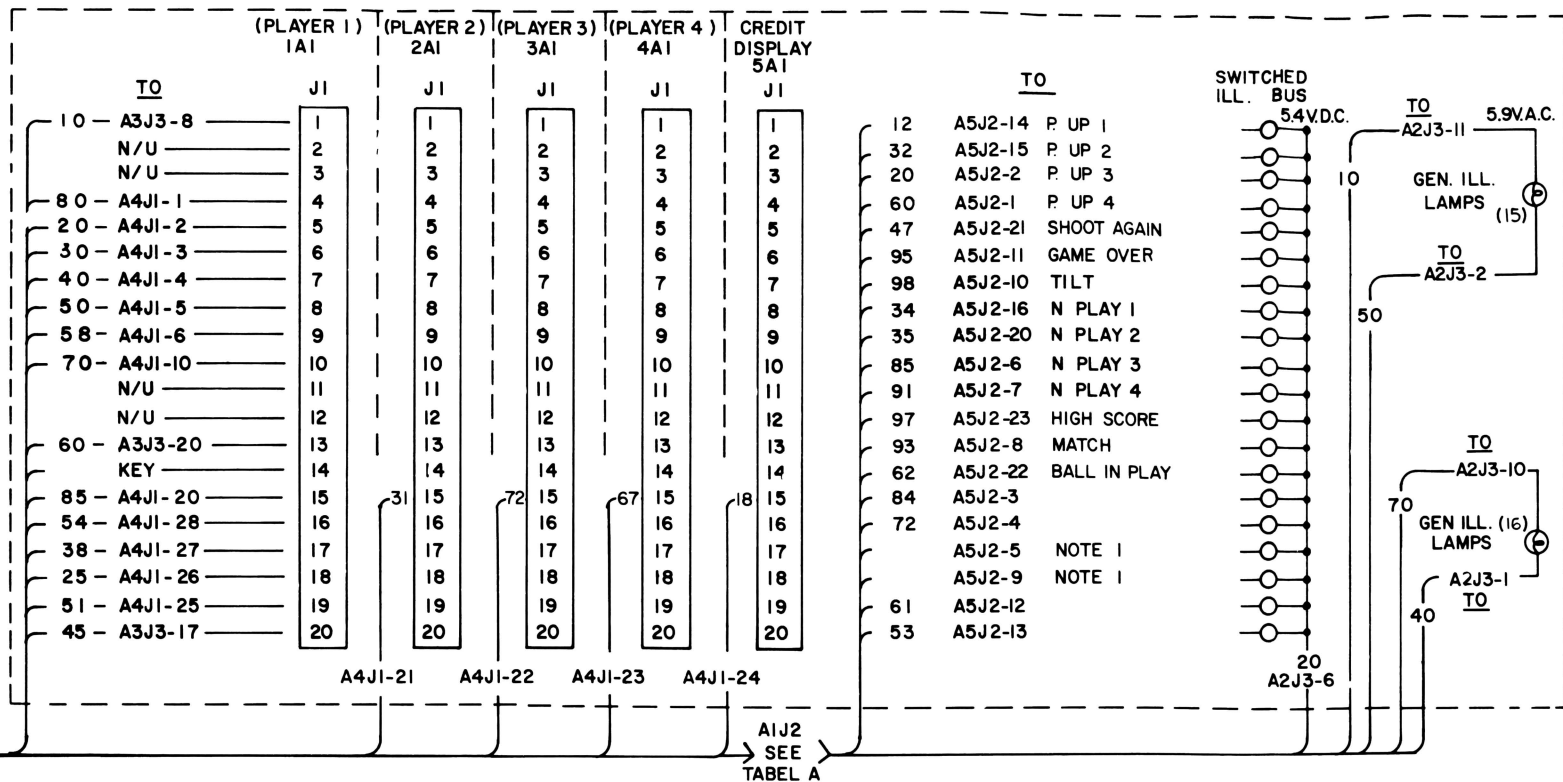


A7 CABINET ASSY. WIRING

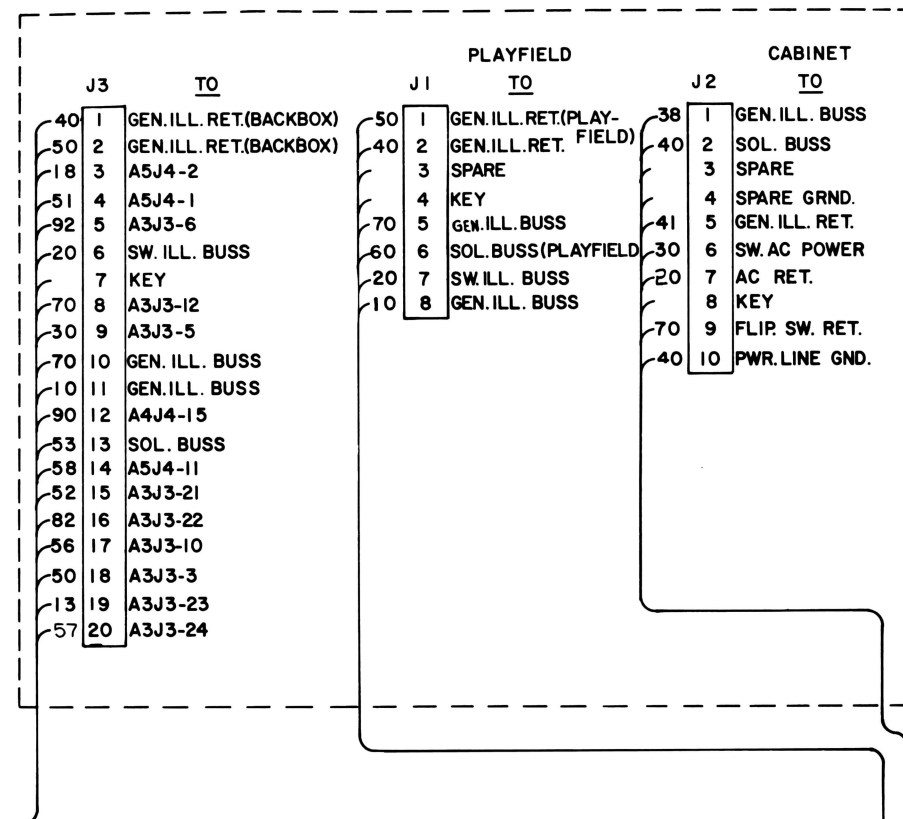
FROM	PIN	WIRE
A2J3-6	1	20
A5J2-14	2	12
A2J3-2	3	50
A2J3-11	4	10
A5J2-23	5	97
A5J2-15	6	32
A5J2-22	7	62
A5J2-8	8	93
A5J2-1	9	60
A5J2-2	10	20
A5J2-11	11	95
A5J2-21	12	47
A5J2-10	13	98
A5J2-7	14	91
A5J2-6	15	85
A5J2-20	16	35
A5J2-16	17	34
A2J3-1	18	40
A2J3-10	19	70
A5J2-13	20	53
A5J2-12	21	61
A5J2-4	22	72
A5J2-3	23	84
	24	

INSERT TO BACK
CABINET PLUG

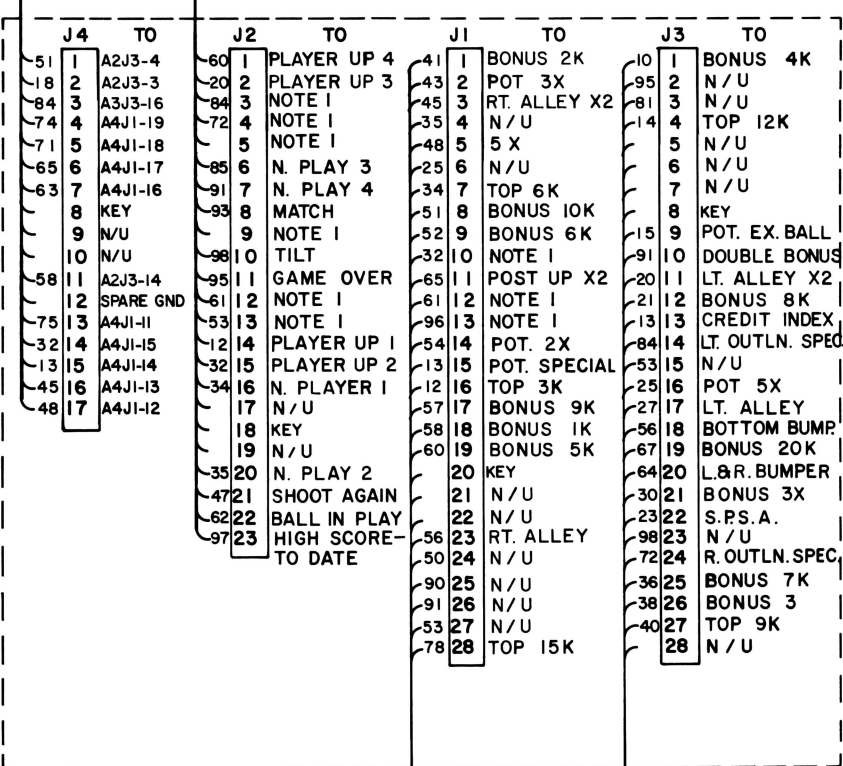
A1 INSERT



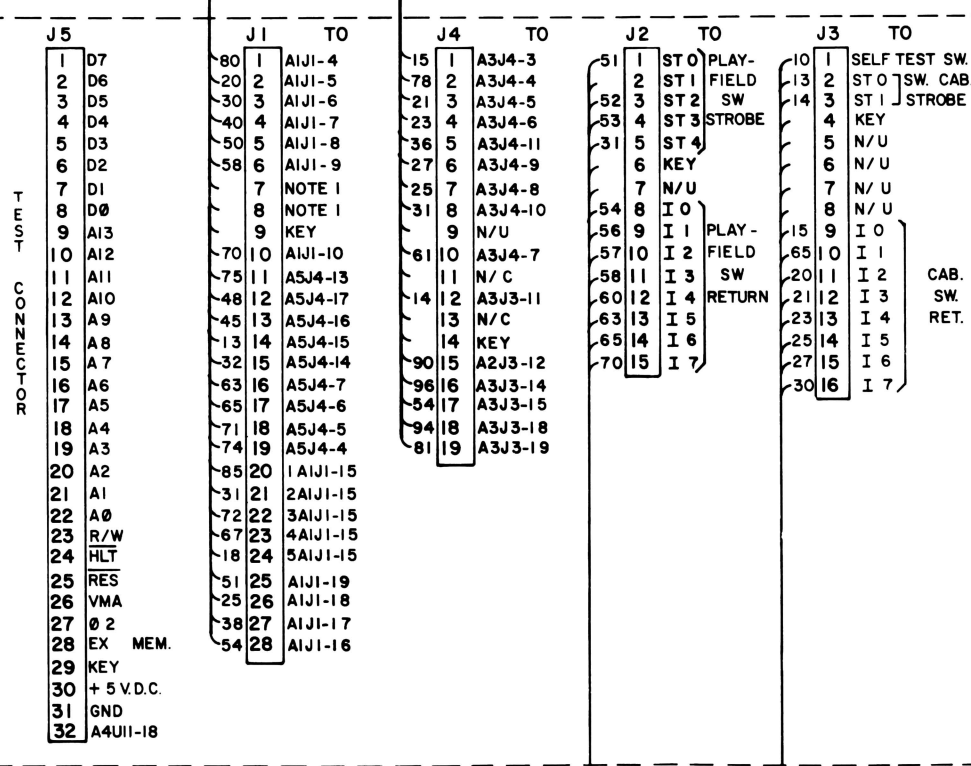
A2 TRANSFORMER



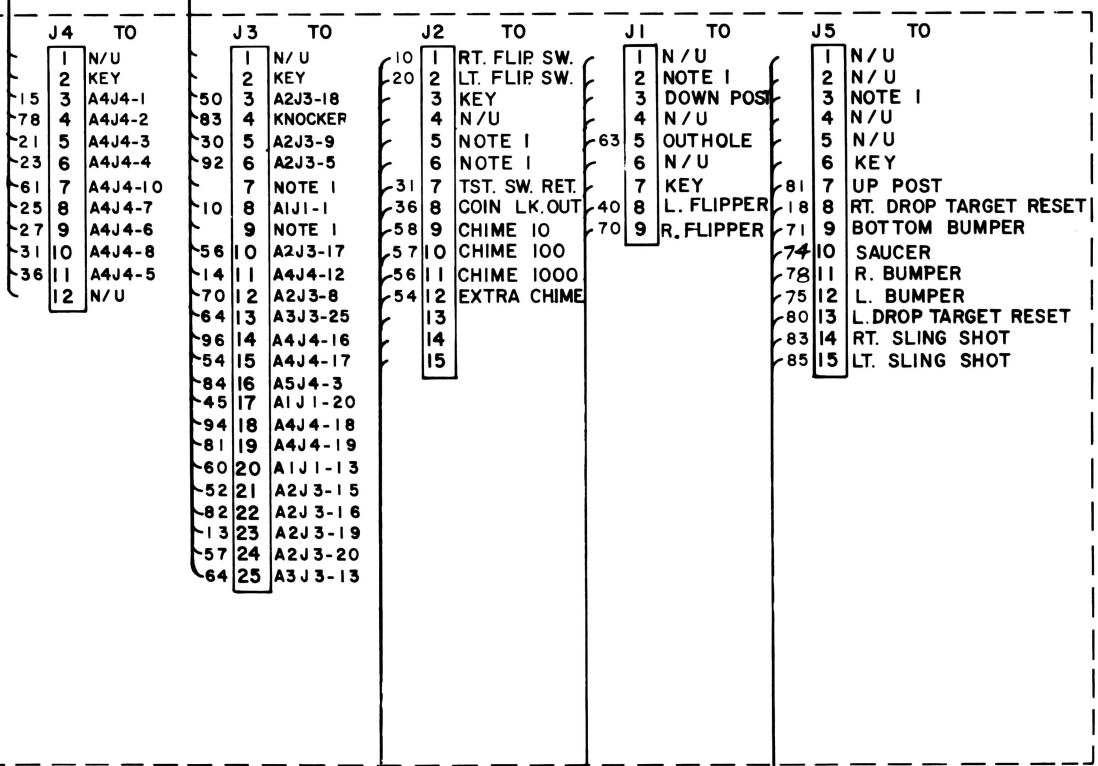
LAMP DRIVER A5



MPU A4



VOLTAGE REGULATOR / SOLENOID DRIVER A3

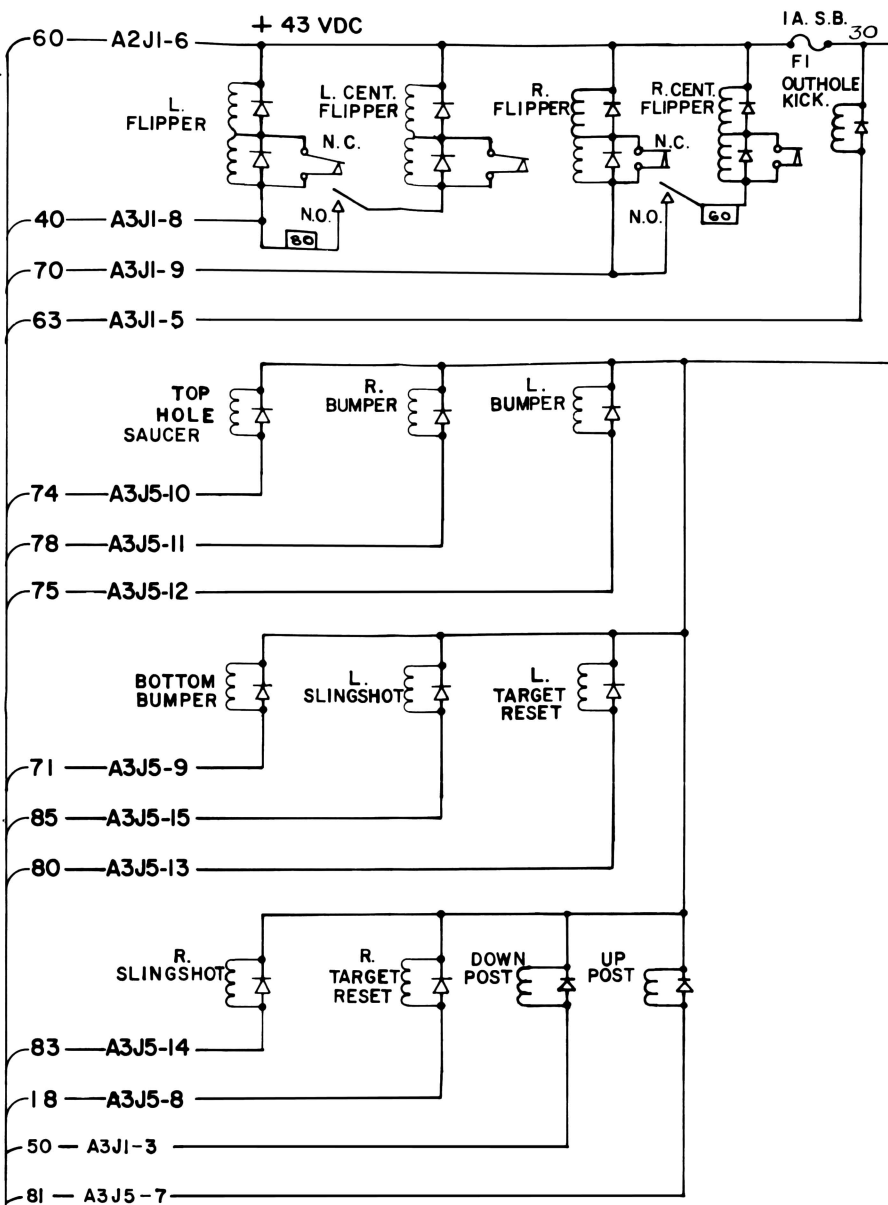
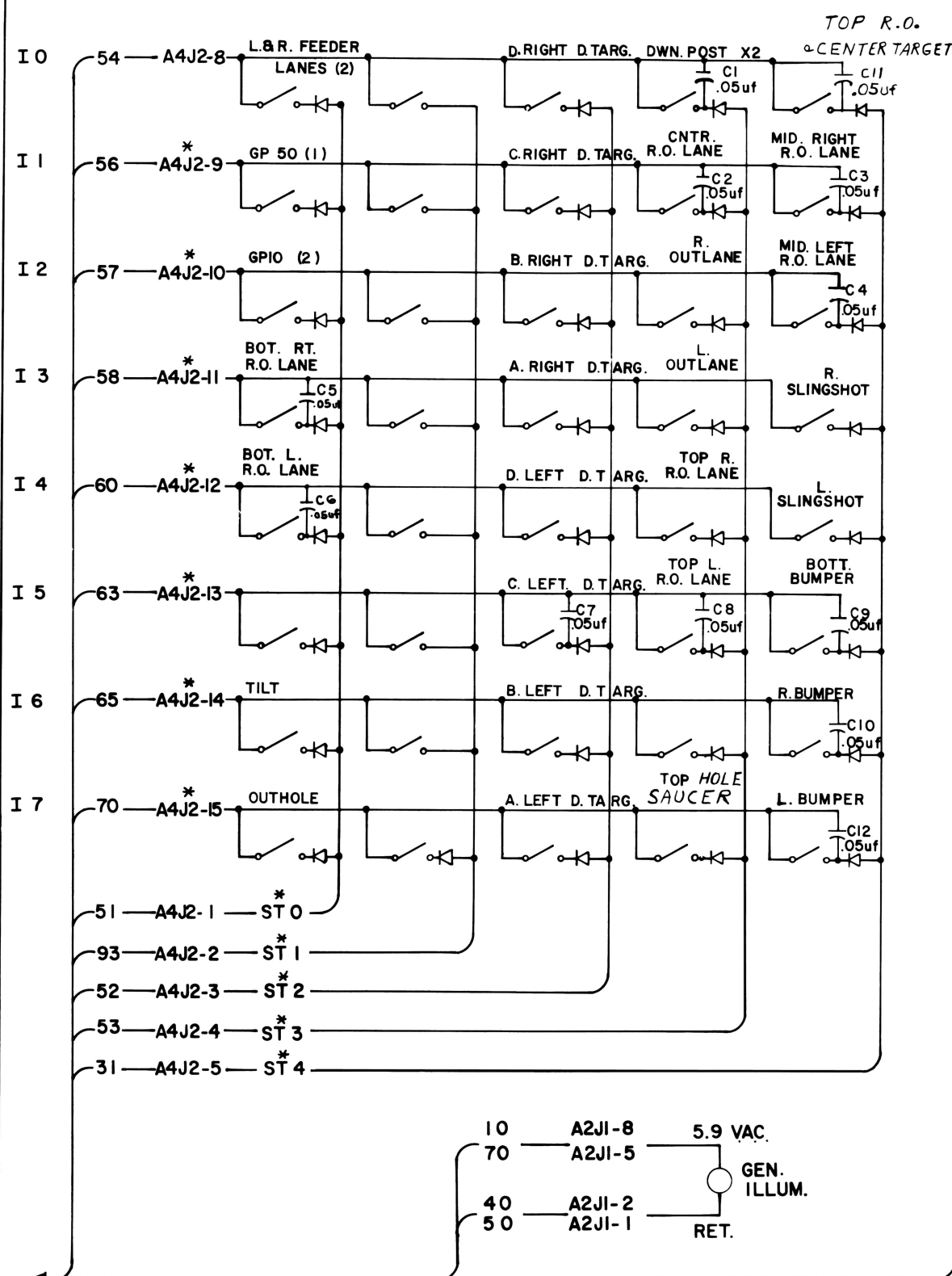


NOTES

- THESE PINS ARE RESERVED FOR FUTURE USE.
- WIRE COLORS ARE SHOWN FOR ALL CONNECTOR PINS, SOME WIRES MAY NOT BE USED IN ALL GAMES.
- * INDICATES AID TEST POINT.

WIRE COLOR CODE

1-RED	6-BROWN
2-BLUE	7-ORANGE



58-1	A5J1-18	1K
60-1	A5J1-19	5K
57-1	A5J1-17	9K
56-2	A5J1-23	R. ALLEY
54-1	A5J1-14	POT. 2X
13	A5J1-15	POT. SPEC.
12	A5J1-16	TOP 3K
78-1	A5J1-28	TOP 15K
50	A5J1-24	N/U
90	A5J1-25	N/U
91	A5J1-26	N/U
53	A5J1-27	N/U
41	A5J1-1	2K
52-1	A5J1-9	6K
51-1	A5J1-8	10K
45	A5J1-3	R. ALLEY X2
43	A5J1-2	POT. 3X
32	A5J1-10	N/U
34	A5J1-7	TOP 6K
25	A5J1-6	N/U
48	A5J1-5	5X
65-1	A5J1-11	POST UP X2
35	A5J1-4	N/U
61	A5J1-12	N/U
96	A5J1-13	N/U
38	A5J3-26	3K
36	A5J3-25	7K
67	A5J3-19	20K
27	A5J3-17	L. ALLEY
25	A5J3-16	POT. 5X
98	A5J3-23	N/U
40	A5J3-27	TOP 9K
30	A5J3-21	3X
64	A5J3-20	L. & R. BUMPER
23	A5J3-22	S.P.S.A.
72	A5J3-24	R. OUTLANE SPEC.
10	A5J3-1	4K
21	A5J3-12	8K
53	A5J3-15	N/U
20	A5J3-11	L. ALLEY X2
15	A5J3-9	POT. XBALL
13-1	A5J3-13	CREDIT INDEX
14	A5J3-4	TOP 12K
95	A5J3-2	N/U
91	A5J3-10	2X
56-1	A5J3-18	BOTTOM BUMPER
81	A5J3-3	N/U
84	A5J3-14	L. OUTLANE SPEC.
20	A2J1-7	FEATURE LAMP BUS

5.4 VDC

PLAYFIELD A6

NOTES

1. INDICATES NOT USED
2. N/U = NOT USED ON PLAYFIELD
3. * INDICATES AID TEST POINT

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		Bally MANUFACTURING CORP. 2640 BELMONT AVENUE CHICAGO, ILLINOIS		1120-E	
CK. BY	DATE	AP'D BY	DATE	PRINT	NAME	WIRING DIAGRAM	ASSEM. NO. USED ON W
2/2/77	9/2/77	2/2/77	9/2/77	2/2/77	WIRING DIAGRAM	ELECTRONIC POWER PLAY	
TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED				DO NOT SCALE DRAWING			
FRACTIONS - 1/64							
DECIMALS - .005							
ANGLES - 1°							
LET	CHANGE	DATE	BY	CK.	PART NO. W-1192c		