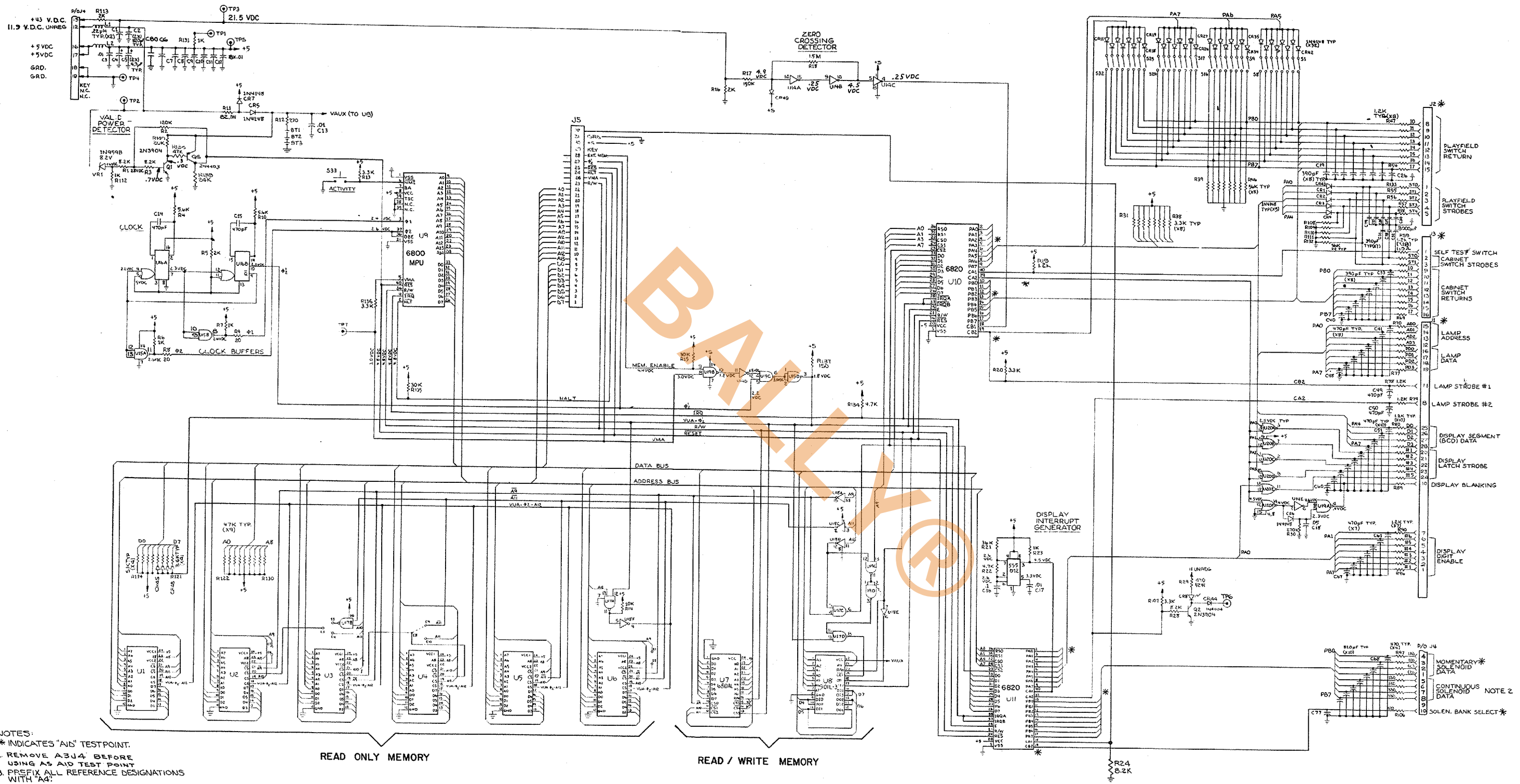




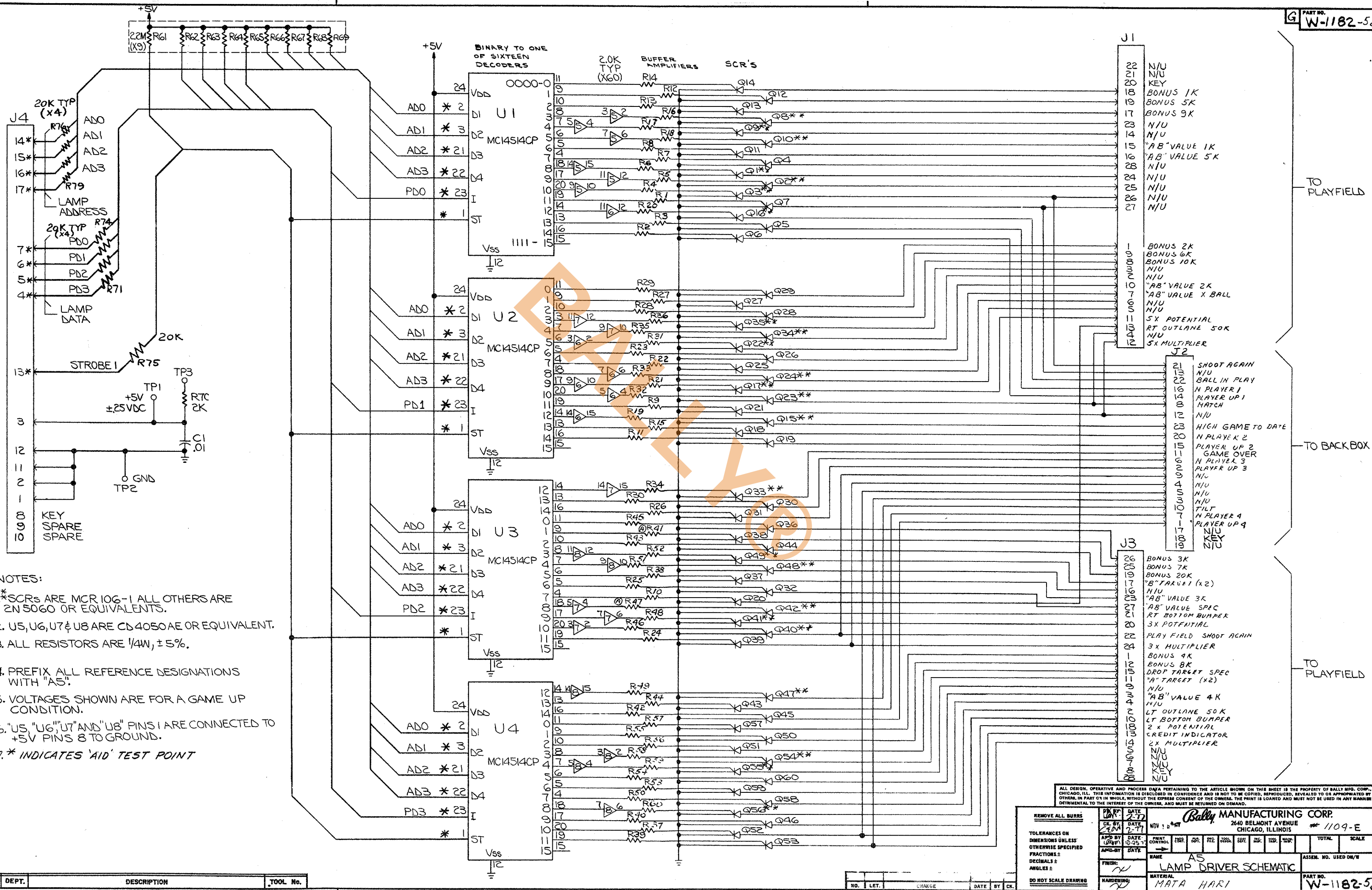
NOTES:
 1. * INDICATES "AID" TESTPOINT.
 2. REMOVE A3J4 BEFORE USING AS AID TEST POINT
 3. PREFIX ALL REFERENCE DESIGNATIONS WITH "A4"

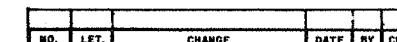
READ ONLY MEMORY

READ / WRITE MEMORY

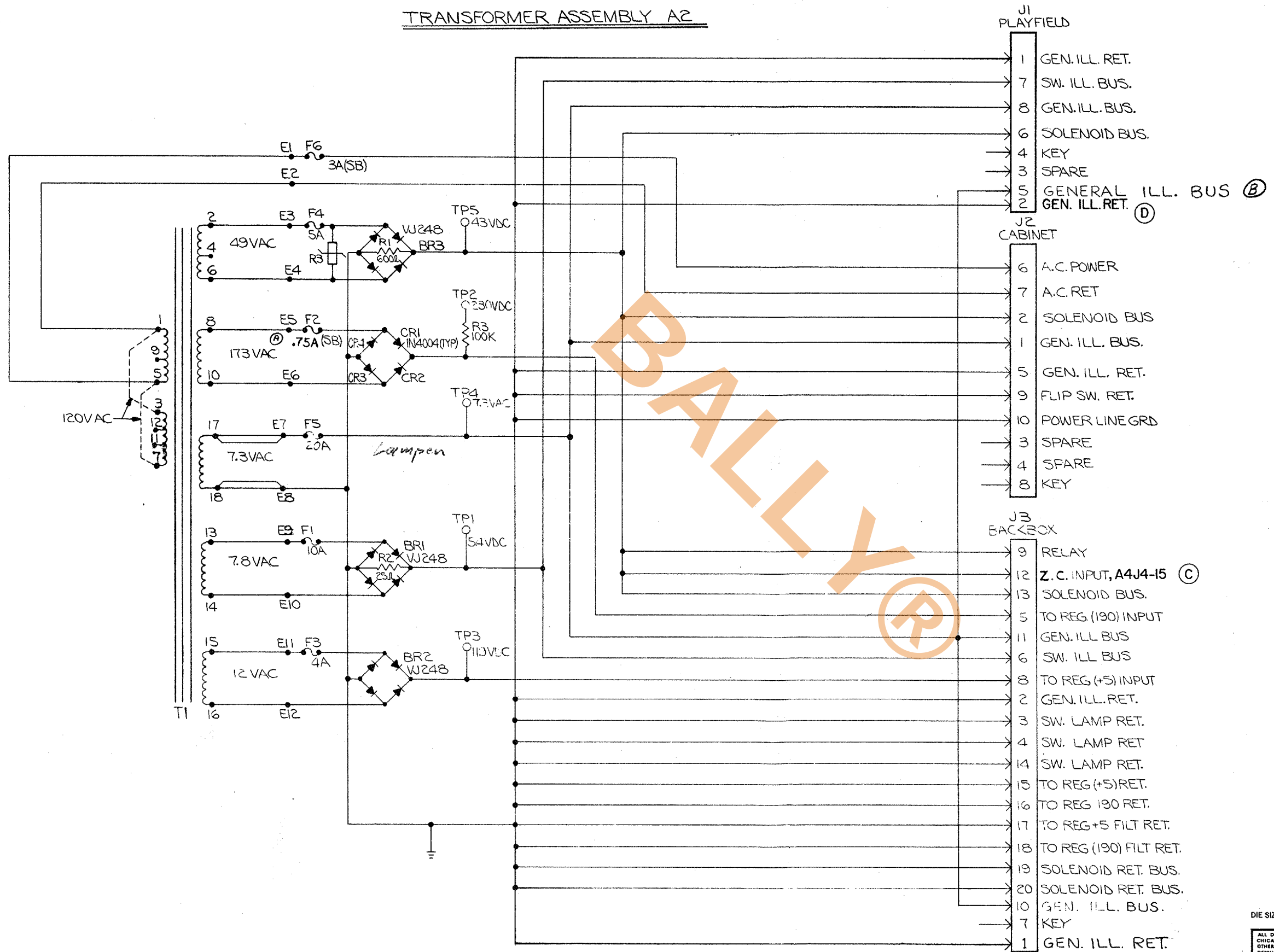
ALL DESIGN, OPERATIVE AND PROCESS DATA PERTAINING TO THE ARTICLE SHOWN ON THIS SHEET IS THE PROPERTY OF BALLY MFG. CORP., CHICAGO, ILL. THIS INFORMATION IS DISCLOSED IN CONFIDENCE AND IS NOT TO BE COPIED, REPRODUCED, REVEALED OR APPROPRIATED BY OTHERS, IN PART OR IN WHOLE WITHOUT THE EXPRESS CONSENT 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: 1/64		DECIMALS: ± .005		ANGLES: ± 1°		DO NOT SCALE DRAWING	
DR. BY	DATE	CHK. BY	DATE	AP'D BY	DATE	PRINT	CONTROL	DESIGN	DATE	TEST	DATE
DR. BY	DATE	CHK. BY	DATE	AP'D BY	DATE	PRINT	CONTROL	DESIGN	DATE	TEST	DATE
Bally MANUFACTURING CORP. 1094-E 2640 BELMONT AVENUE CHICAGO, ILLINOIS						TOTAL					
NAME						ASSEMB. NO. USED ON/W					
MATERIAL						PART NO.					
W-1181-2c											





TRANSFORMER ASSEMBLY A2



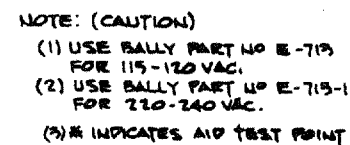
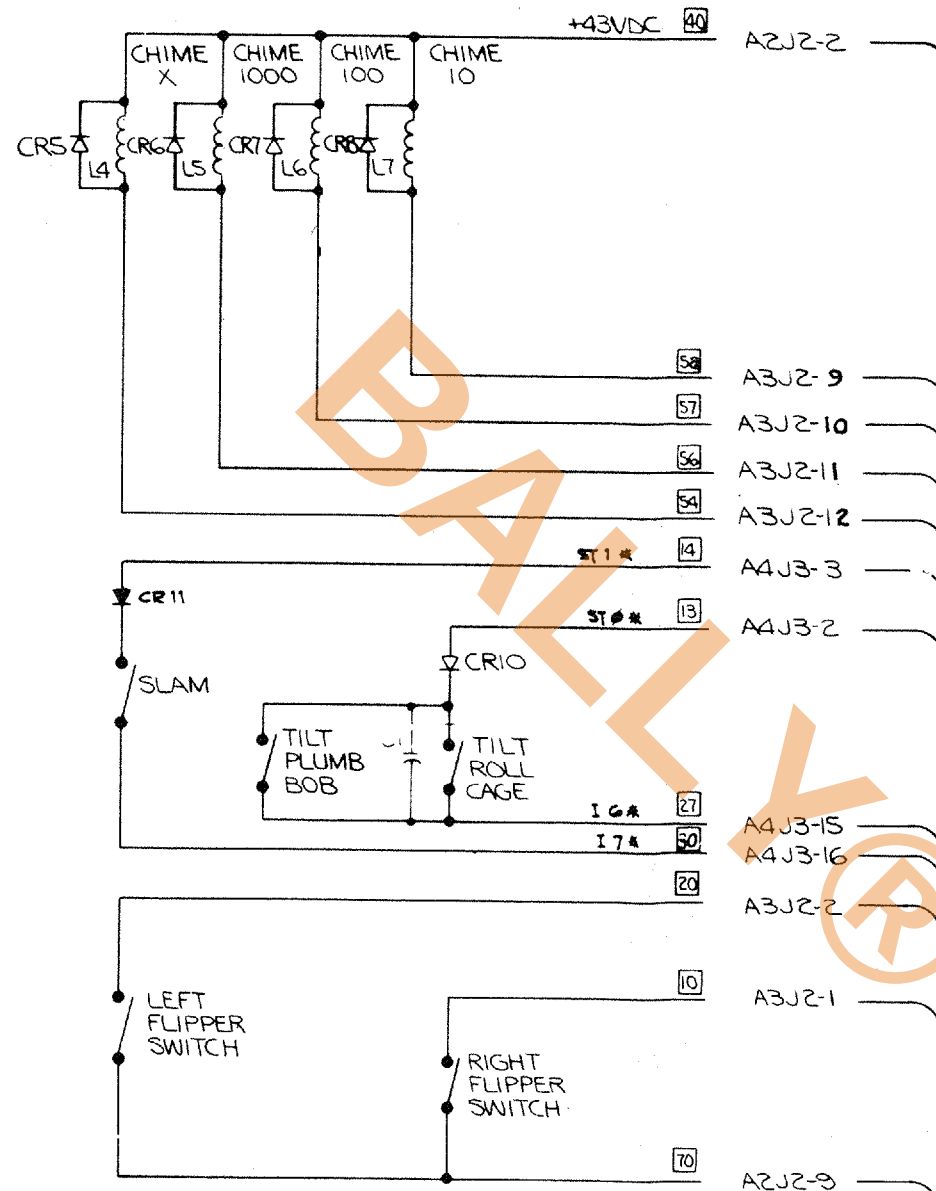
- NOTES:
1. WIRE A.C. POWER AND TERMINALS PER TABLE 1.
 2. VOLTAGES SHOWN ARE FOR GAME IN POWER-UP CONDITION.
 3. PREFIX ALL REFERENCE DESIGNATIONS WITH A2.

TABLE 1 POWER LINE CONNECTIONS		
LINE VOLTAGE VRMS A.C.	STRAP TERMINALS	APPLY POWER TO TERMINALS
115	1T03 AND 9T011	1 AND 9
120	1T03 AND 5T07	1 AND 5
220	3T05	1 AND 12
240	3T05	1 AND 7

DIE SIZE — C.C. — FT. PER M — LBS. PER M — 1118-F

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 4-76		Bally MANUFACTURING CORP. #1094-E	
TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED		FEB 21 1977		2640 BELMONT AVENUE CHICAGO, ILLINOIS 1074-E	
FRACTIONS: 1/16, 1/8, 1/4, 1/2, 3/4, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 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DOOR PLUG

A7 CABINET ASSY. WIRING

OPER.	DEPT.	DESCRIPTION	TOOL No.
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DIE SIZE — C.C. — FT. PER M — LBS. PER M —

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REMOVE ALL STAPLES TELETYPE UNIT		1-3 1-4 1-5 1-6 1-7 1-8 1-9 1-10 1-11 1-12 1-13 1-14 1-15 1-16 1-17 1-18 1-19 1-20 1-21 1-22 1-23 1-24 1-25 1-26 1-27 1-28 1-29 1-30 1-31 1-32 1-33 1-34 1-35 1-36 1-37 1-38 1-39 1-40 1-41 1-42 1-43 1-44 1-45 1-46 1-47 1-48 1-49 1-50 1-51 1-52 1-53 1-54 1-55 1-56 1-57 1-58 1-59 1-60 1-61 1-62 1-63 1-64 1-65 1-66 1-67 1-68 1-69 1-70 1-71 1-72 1-73 1-74 1-75 1-76 1-77 1-78 1-79 1-80 1-81 1-82 1-83 1-84 1-85 1-86 1-87 1-88 1-89 1-90 1-91 1-92 1-93 1-94 1-95 1-96 1-97 1-98 1-99 1-100 1-101 1-102 1-103 1-104 1-105 1-106 1-107 1-108 1-109 1-110 1-111 1-112 1-113 1-114 1-115 1-116 1-117 1-118 1-119 1-120 1-121 1-122 1-123 1-124 1-125 1-126 1-127 1-128 1-129 1-130 1-131 1-132 1-133 1-134 1-135 1-136 1-137 1-138 1-139 1-140 1-141 1-142 1-143 1-144 1-145 1-146 1-147 1-148 1-149 1-150 1-151 1-152 1-153 1-154 1-155 1-156 1-157 1-158 1-159 1-160 1-161 1-162 1-163 1-164 1-165 1-166 1-167 1-168 1-169 1-170 1-171 1-172 1-173 1-174 1-175 1-176 1-177 1-178 1-179 1-180 1-181 1-182 1-183 1-184 1-185 1-186 1-187 1-188 1-189 1-190 1-191 1-192 1-193 1-194 1-195 1-196 1-197 1-198 1-199 1-200 1-201 1-202 1-203 1-204 1-205 1-206 1-207 1-208 1-209 1-210 1-211 1-212 1-213 1-214 1-215 1-216 1-217 1-218 1-219 1-220 1-221 1-222 1-223 1-224 1-225 1-226 1-227 1-228 1-229 1-230 1-231 1-232 1-233 1-234 1-235 1-236 1-237 1-238 1-239 1-240 1-241 1-242 1-243 1-244 1-245 1-246 1-247 1-248 1-249 1-250 1-251 1-252 1-253 1-254 1-255 1-256 1-257 1-258 1-259 1-260 1-261 1-262 1-263 1-264 1-265 1-266 1-267 1-268 1-269 1-270 1-271 1-272 1-273 1-274 1-275 1-276 1-277 1-278 1-279 1-280 1-281 1-282 1-283 1-284 1-285 1-286 1-287 1-288 1-289 1-290 1-291 1-292 1-293 1-294 1-295 1-296 1-297 1-298 1-299 1-300 1-301 1-302 1-303 1-304 1-305 1-306 1-307 1-308 1-309 1-310 1-311 1-312 1-313 1-314 1-315 1-316 1-317 1-318 1-319 1-320 1-321 1-322 1-323 1-324 1-325 1-326 1-327 1-328 1-329 1-330 1-331 1-332 1-333 1-334 1-335 1-336 1-337 1-338 1-339 1-340 1-341 1-342 1-343 1-344 1-345 1-346 1-347 1-348 1-349 1-350 1-351 1-352 1-353 1-354 1-355 1-356 1-357 1-358 1-359 1-360 1-361 1-362 1-363 1-364 1-365 1-366 1-367 1-368 1-369 1-370 1-371 1-372 1-373 1-374 1-375 1-376 1-377 1-378 1-379 1-380 1-381 1-382 1-383 1-384 1-385 1-386 1-387 1-388 1-389 1-390 1-391 1-392 1-393 1-394 1-395 1-396 1-397 1-398 1-399 1-400 1-401 1-402 1-403 1-404 1-405 1-406 1-407 1-408 1-409 1-410 1-411 1-412 1-413 1-414 1-415 1	
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AI INSERT

The diagram shows the 1000 pin connector with the following pin assignments:

TO	1A1 (PLAYER 1)	2A1 (PLAYER 2)	3A1 (PLAYER 3)	4A1 (PLAYER 4)	CREDIT DISPLAY 5A1
10 - A3J3-8	1	1	1	1	1
N/U	2	2	2	2	2
N/U	3	3	3	3	3
80 - A4J1-1	4	4	4	4	4
20 - A4J1-2	5	5	5	5	5
30 - A4J1-3	6	6	6	6	6
40 - A4J1-4	7	7	7	7	7
50 - A4J1-5	8	8	8	8	8
58 - A4J1-6	9	9	9	9	9
70 - A4J1-10	10	10	10	10	10
N/U	11	11	11	11	11
N/U	12	12	12	12	12
60 - A3J3-20	13	13	13	13	13
KEY	14	14	14	14	14
85 - A4J1-20	15	15	15	15	15
54 - A4J1-28	16	16	16	16	16
38 - A4J1-27	17	17	17	17	17
25 - A4J1-26	18	18	18	18	18
51 - A4J1-25	19	19	19	19	19
45 - A3J3-17	20	20	20	20	20

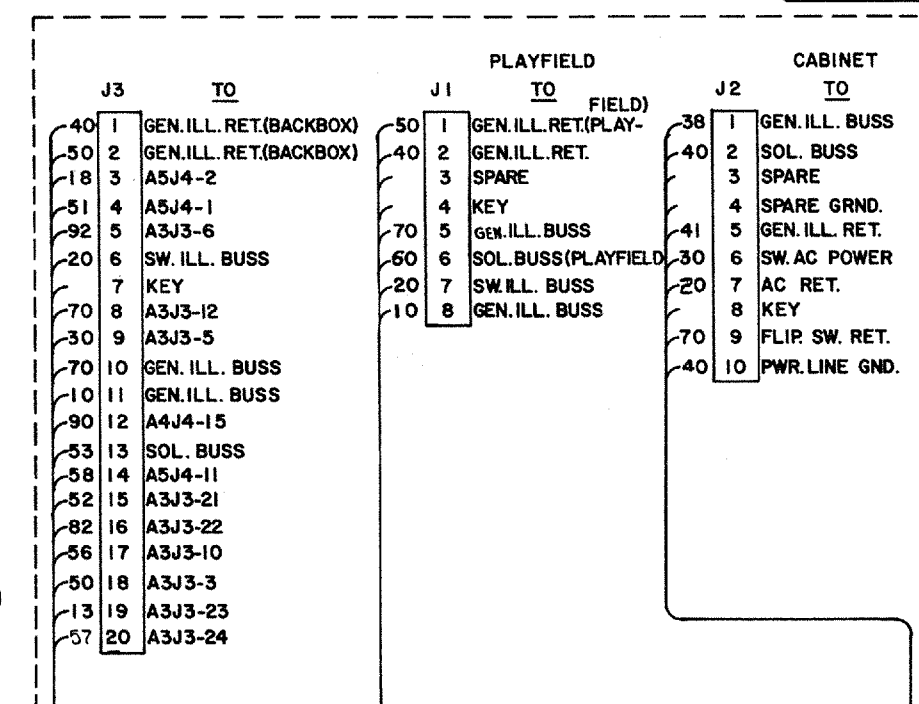
Additional connections shown in the diagram:

- SWITCHED ILL. BUS 54V.D.C.** (Pin 10)
- TO A2J3-11** (Pin 10)
- GEN. ILL. LAMPS (14)** (Pin 10)
- TO A2J3-2** (Pin 50)
- TO A2J3-10** (Pin 70)
- GEN. ILL. LAMPS (16)** (Pin 70)
- A2J3-1 TO** (Pin 40)
- TO A2J3-6** (Pin 20)
- TO A2J3-1** (Pin 40)

AIJ2
→ SEE
TABLE A

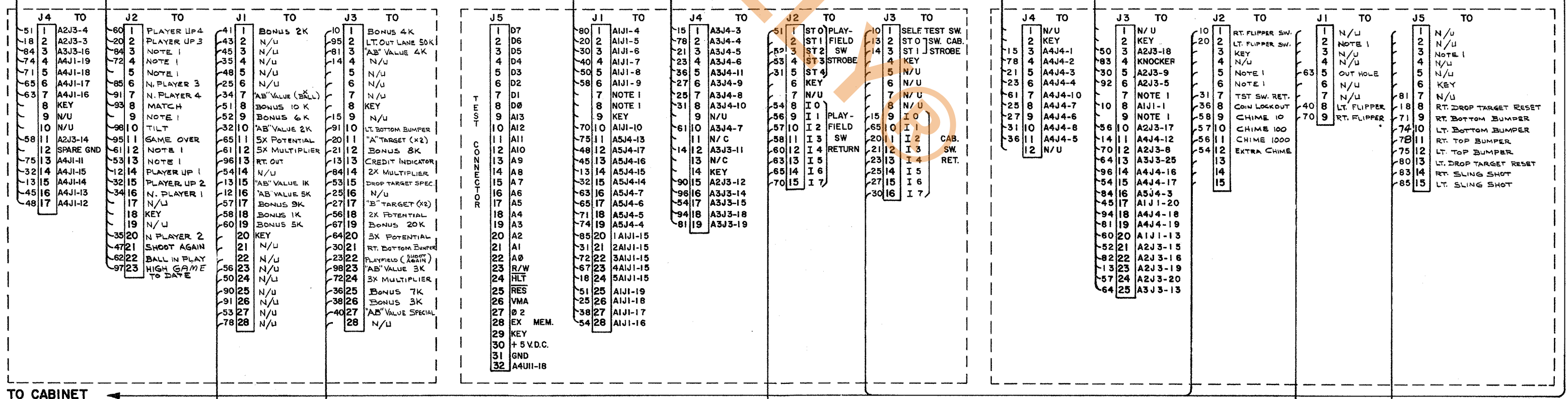
A2 TRANSFORMER

W-1187-1 C



MPU A4

VOLTAGE REGULATOR / SOLENOID DRIVER A3



TO CABINET

TO PLAYFIELD

NOTES

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

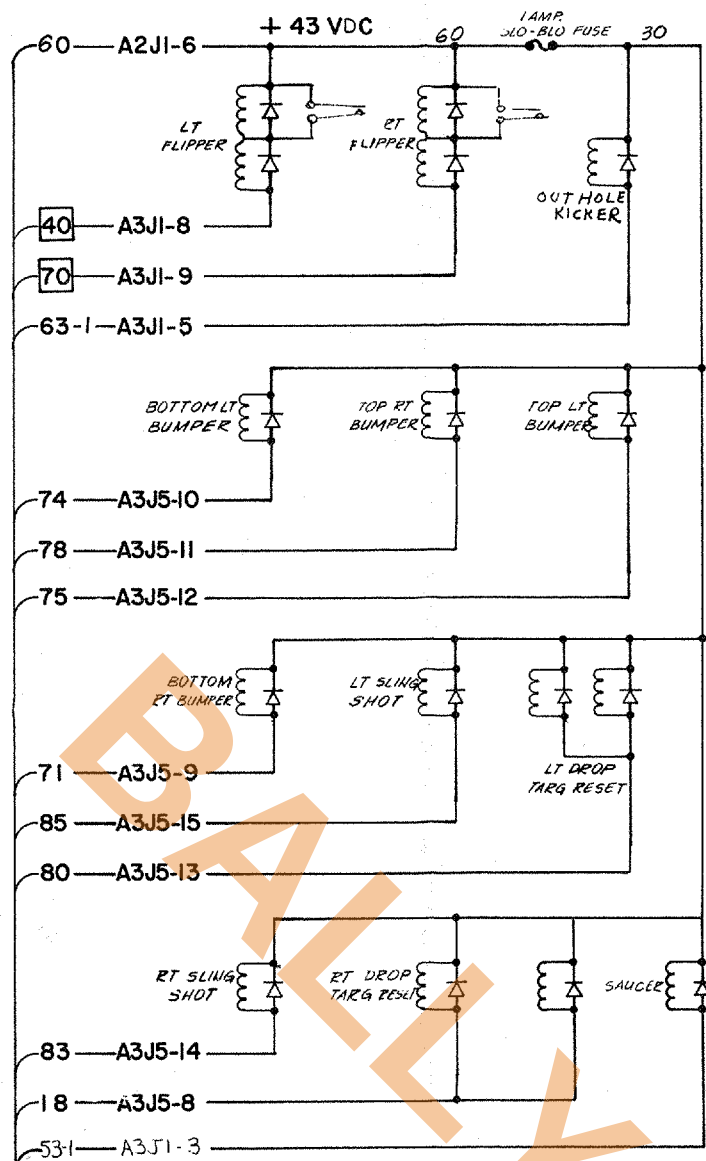
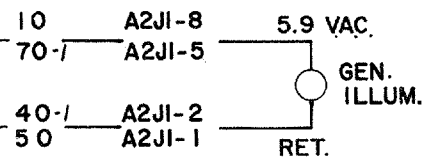
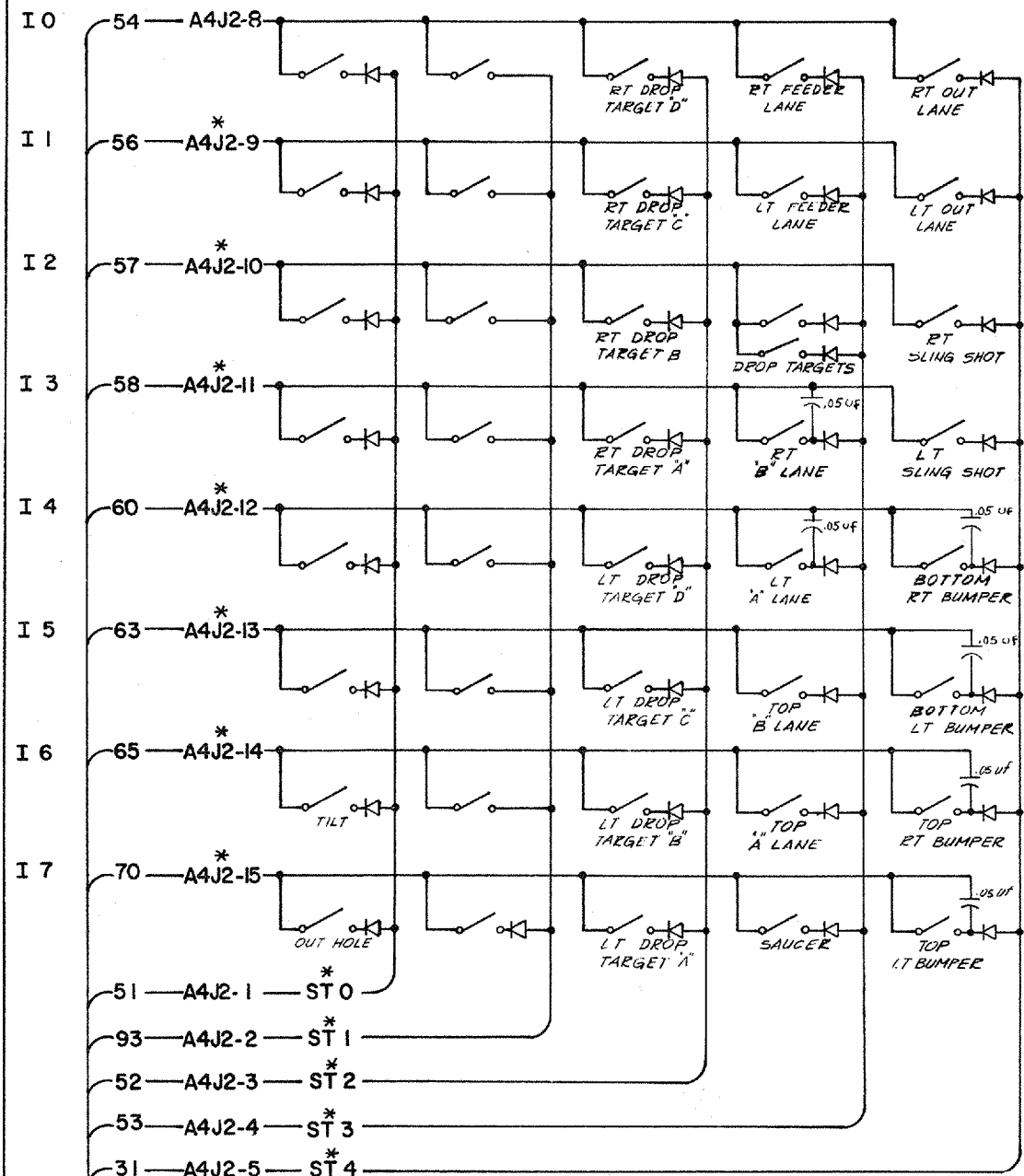
WIRE COLOR CODE	
1	WHITE
2	BLACK
3	RED
4	BLUE
5	BROWN
6	PINK
7	GREEN
8	YELLOW
9	GRAY
10	ORANGE
11	PURPLE
12	TEAL
13	MAUVE
14	SLATE
15	NAVY
16	CRIMSON
17	INDIGO
18	VIOLET
19	PURPLE
20	MAUVE
21	SLATE
22	NAVY
23	CRIMSON
24	INDIGO
25	VIOLET
26	PURPLE
27	MAUVE
28	SLATE
29	NAVY
30	CRIMSON
31	INDIGO
32	VIOLET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

WINE COLOR CODE

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

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								PRINT IS LOANED AND MUST NOT BE USED IN ANY MANUFACTURE DETRIMENTAL TO THE INTEREST OF THE OWNERS, AND MUST BE RETURNED ON DEMAND.											
				<u>REMOVE ALL BURRS</u>				DR. BY DATE CK. BY DATE RUV 10 1977 <i>Bally</i> MANUFACTURING CORP. 2640 BELMONT AVENUE #1104-E CHICAGO, ILLINOIS											
				TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED FRACTIONS = 1/64 DECIMALS = .005 ANGLES = 1°				AP'D BY DATE 6/20/77 10-25-77 PRINT CONTROL CONT. DIM. DIA. THK. POS. EXP. ANG. TOL. MARK TOTAL SCALE											
				DO NOT SCALE DRAWING				AP'D BY DATE FINISH: HARDENING:											
LET. CHANGE DATE BY CK.				WIRING DIAGRAM								ASSEM. NO. USED ON/W							
								MATERIAL MATA HARI								PART NO. W-187-1 c			



- 58-1 A5J1-18 BONUS 1K
- 60-1 A5J1-19 BONUS 5K
- 57-1 A5J1-17 BONUS 9K
- 56 A5J1-23 N/U
- 54 A5J1-14 N/U
- 13 A5J1-15 AB VALUE 1K
- 12 A5J1-16 AB VALUE 5K
- 78 A5J1-28 N/U
- 50 A5J1-24 N/U
- 90 A5J1-25 N/U
- 91 A5J1-26 N/U
- 53 A5J1-27 N/U
- 41 A5J1-1 BONUS 2K
- 52 A5J1-9 BONUS 6K
- 51-1 A5J1-8 BONUS 10K
- 45 A5J1-3 N/U
- 43 A5J1-2 N/U
- 32 A5J1-10 AB VALUE 2K
- 34 A5J1-7 AB VALUE X BALL
- 25 A5J1-6 N/U
- 48 A5J1-5 N/U
- 65-1 A5J1-11 5X POTENTIAL
- 35 A5J1-4 N/U
- 61 A5J1-12 5X MULTIPLIER
- 96 A5J1-13 RT OUT LANE 50K

- 38 A5J3-26 BONUS 3K
- 36 A5J3-25 BONUS 7K
- 67 A5J3-19 BONUS 20K
- 27 A5J3-17 B TARGET (X2)
- 25 A5J3-16 N/U
- 98 A5J3-23 AB VALUE 3K
- 40 A5J3-27 AB VALUE SPEC.
- 30 A5J3-21 RT BOTTOM BUMPER
- 64 A5J3-20 3X POTENTIAL
- 23 A5J3-22 PLAY FIELD SHOOT AGAIN
- 72 A5J3-24 3X MULTIPLIER
- 10 A5J3-1 BONUS 4K
- 21 A5J3-12 BONUS 8K
- 53-2 A5J3-15 DROP TARGET SPEC.
- 20 A5J3-11 A TARGET (X2)
- 15 A5J3-9 N/U
- 13-1 A5J3-13 CREDIT INDICATOR
- 14 A5J3-4 N/U
- 95 A5J3-2 LT OUT LANE SPEC
- 91 A5J3-10 LT BOTTOM BUMPER
- 56-1 A5J3-18 2X POTENTIAL
- 81 A5J3-3 AB VALUE 4K
- 84 A5J3-14 2X MULTIPLIER
- 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
4. ALL DIODES ARE IN 4004-E 587-6
ALL CAP. ARE .05 =E 586-80

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REMOVE ALL BURRS		DR. BY DATE		Bally MANUFACTURING CORP.	
TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED		CK. BY DATE		2640 BELMONT AVENUE CHICAGO, ILLINOIS	
FRACTIONS - 1/64		APD BY DATE		CHICAGO, ILLINOIS	
DECIMALS - .005		APD BY DATE		CHICAGO, ILLINOIS	
ANGLES - 2°		FINISH:		NAME	
DO NOT SCALE DRAWING		HARDENING:		WIRING DIAGRAM	
LET. CHANGE DATE BY CK.		MATERIAL		MATA HAKI	
		PART NO.		W-1192-1c	