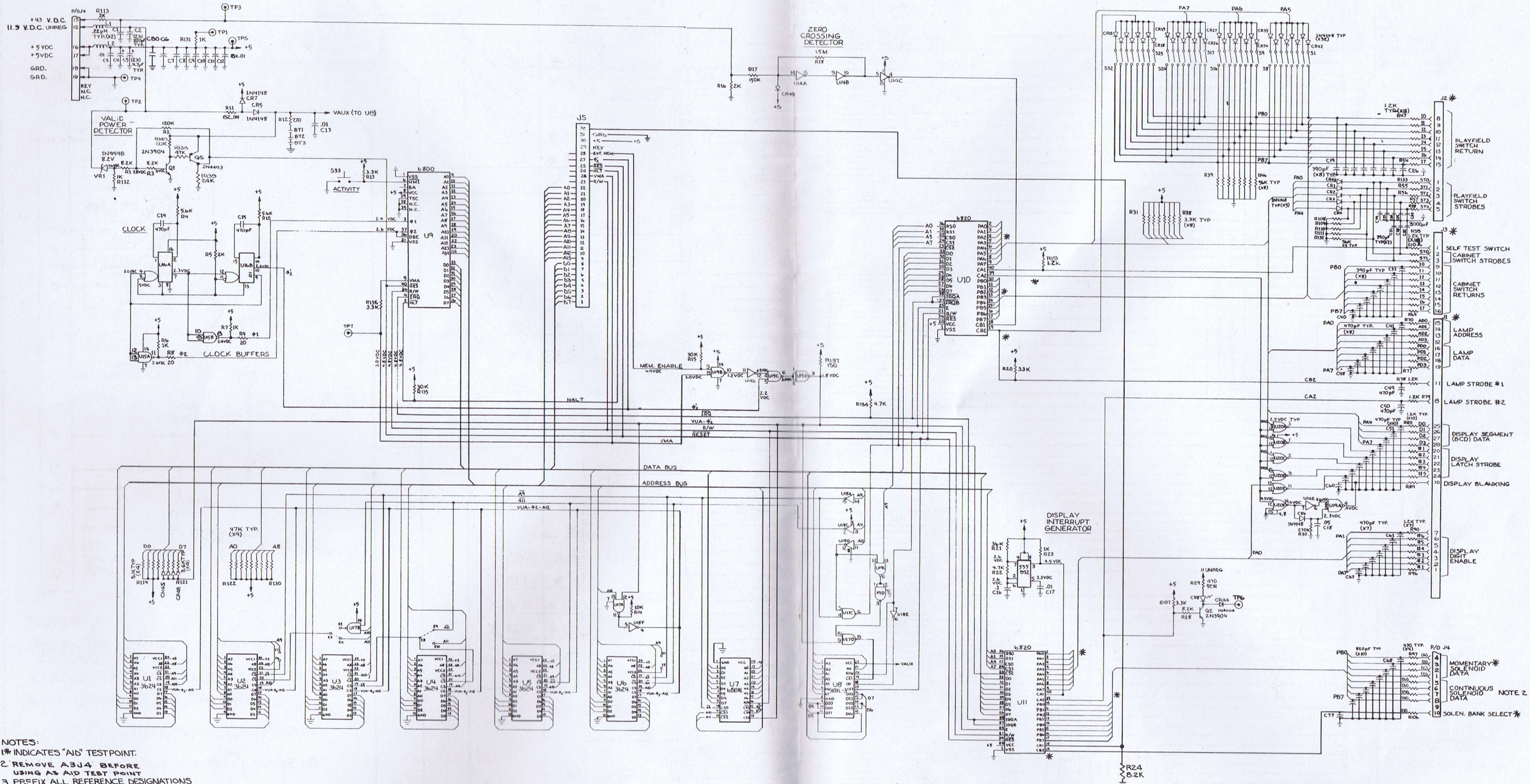
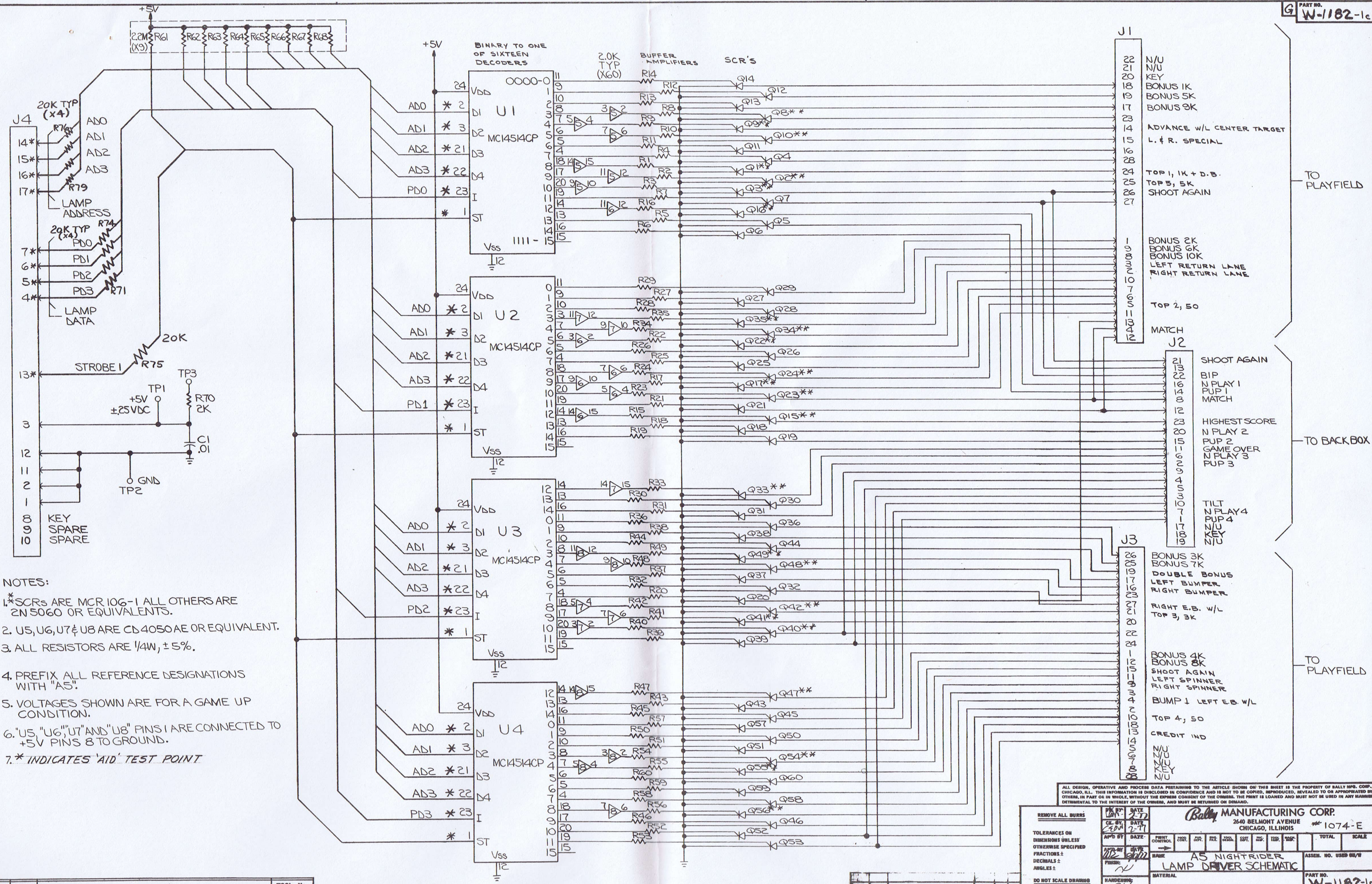




NOTES:
1. * INDICATES "AID" TESTPOINT.
2. REMOVE A3U4 BEFORE USING A3 AID TEST POINT.
3. PREFIX ALL REFERENCE DESIGNATIONS WITH "A4".

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		DR. BY DATE 2-77		Bally MANUFACTURING CORP. 2640 BELMONT AVENUE CHICAGO, ILLINOIS		1074-E	
TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED FRACTIONS: 1/64 DECIMALS: .005 ANGLES: 1°		APPROVED BY DATE 2-77		PRINT CONTROL		TOTAL SCALE	
DO NOT SCALE DRAWING		FINISH: 2-77		NAME MPU CONTROL BOARD SCHEMATIC		ASSEM. NO. USED ON/W	
HARDENING:		MATERIAL		PART NO. W-1181-1c			
NO.	LET.	CHANGE	DATE	BY	CK.		

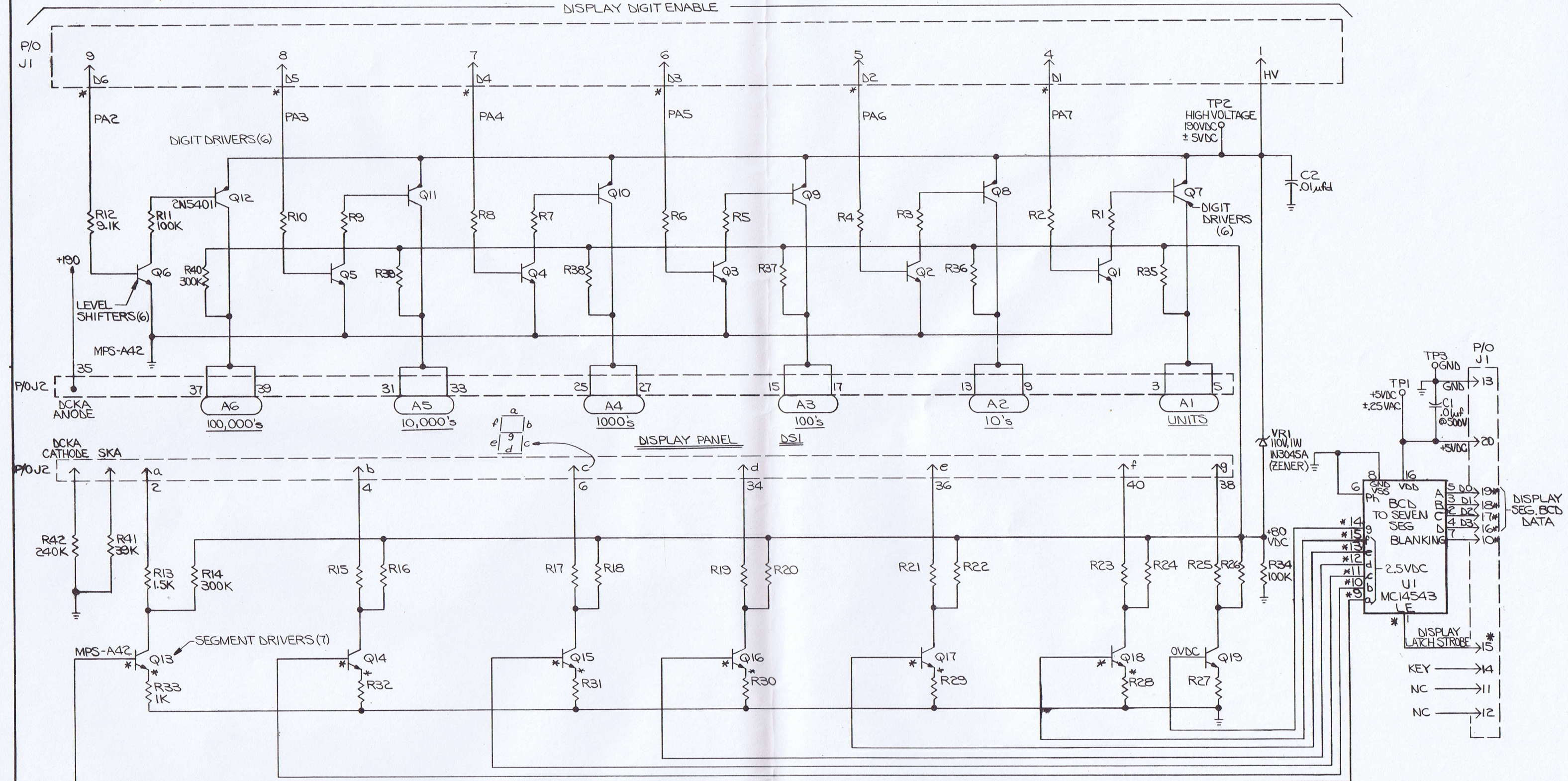


NOTES:

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 BALLY MFG. CO., CHICAGO, ILL. THIS INFORMATION IS DISCLOSED IN CONFIDENCE AND IS NOT TO BE COPIED, REPRODUCED, REVEALED TO OR APPROPRIATED BY ANY OTHERS, IN PART OR IN WHOLE, WITHOUT THE EXPRESS CONSENT OF THE OWNERS. THE PRINT IS LOANED AND MUST NOT BE USED IN ANY REPRODUCING DETRIMENTAL TO THE INTEREST OF THE OWNERS, AND MUST BE RETURNED ON DEMAND.											
REMOVE ALL BURRS		DATE: 1-27		Bally MANUFACTURING CORP.							
TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED		CL. OF FIN: 3.0		DATE: 1-27		2640 BELMONT AVENUE CHICAGO, ILLINOIS					
FRACTIONS ±		APD BY: [Signature]		DATE: 1-27		1074-E					
DECIMALS ±		APPROV BY: [Signature]		DATE: 1-27		AS NIGHTRIDER LAMP DRIVER SCHEMATIC					
ANGLES ±		FINISH: [Signature]		DATE: 1-27		ASSEMB. NO. USED ON/W					
DO NOT SCALE DRAWING		HARDENING: [Signature]		DATE: 1-27		W-1182-1					

DISPLAY DIGIT ENABLE



NOTES:

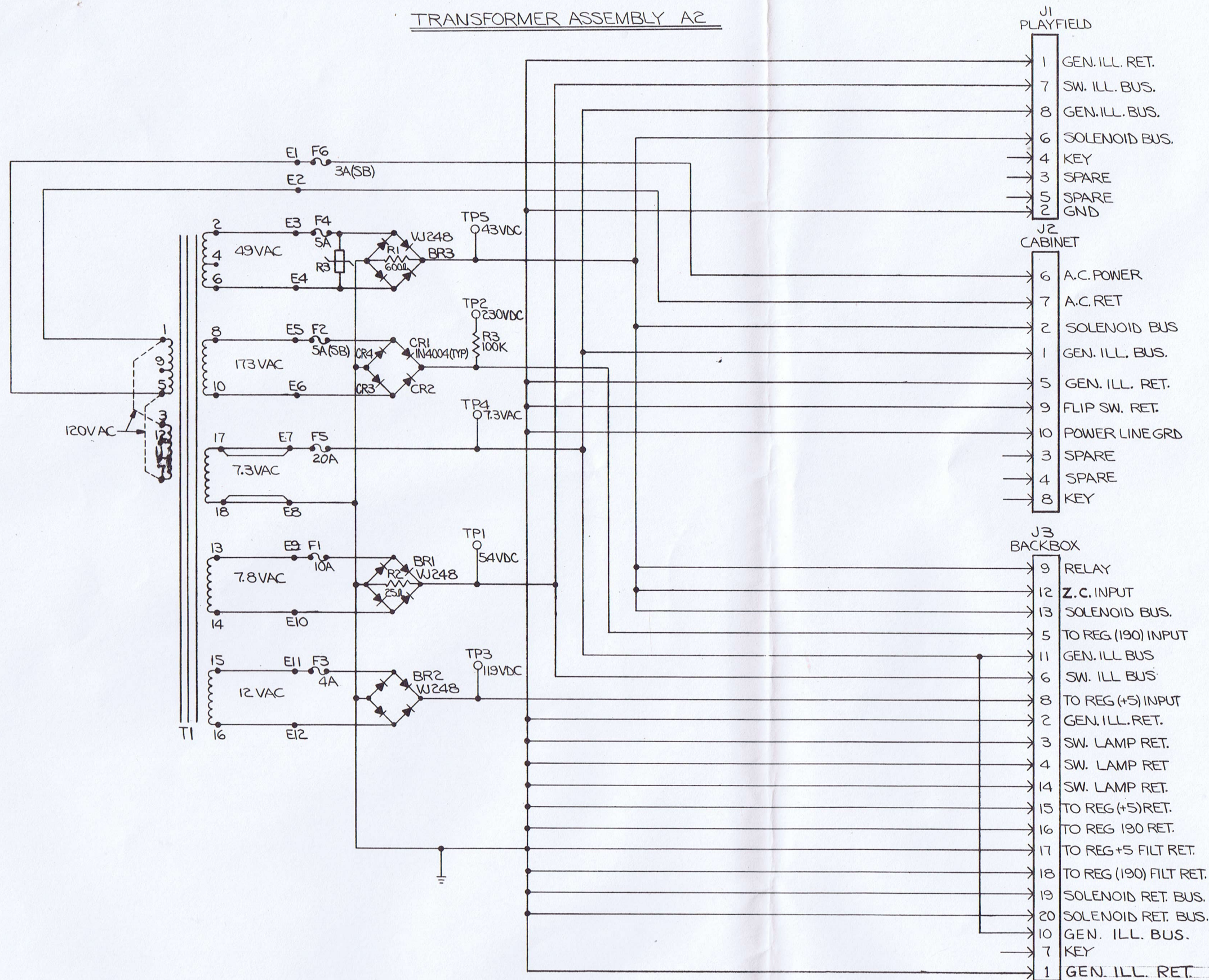
1. UNLESS OTHERWISE SPECIFIED ALL RESISTORS ARE $\pm 5\%$, 1/4W.
2. PREFIX ALL REFERENCE DESIG. WITH ASSEMBLY REFERENCE DESIG. "A1"
3. * INDICATES 'AID' TEST POINT.

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 OWNER. THE POINT IS LOANED AND MUST NOT BE USED IN ANY MANNER DETRIMENTAL TO THE INTEREST OF THE OWNER, AND MUST BE RETURNED ON DEMAND.

REMOVE ALL BURRS		DATE 9-76		BALLY MANUFACTURING CORP. #1066-E	
TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED		DATE 7-77		2640 BELMONT AVENUE #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, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 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615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 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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.

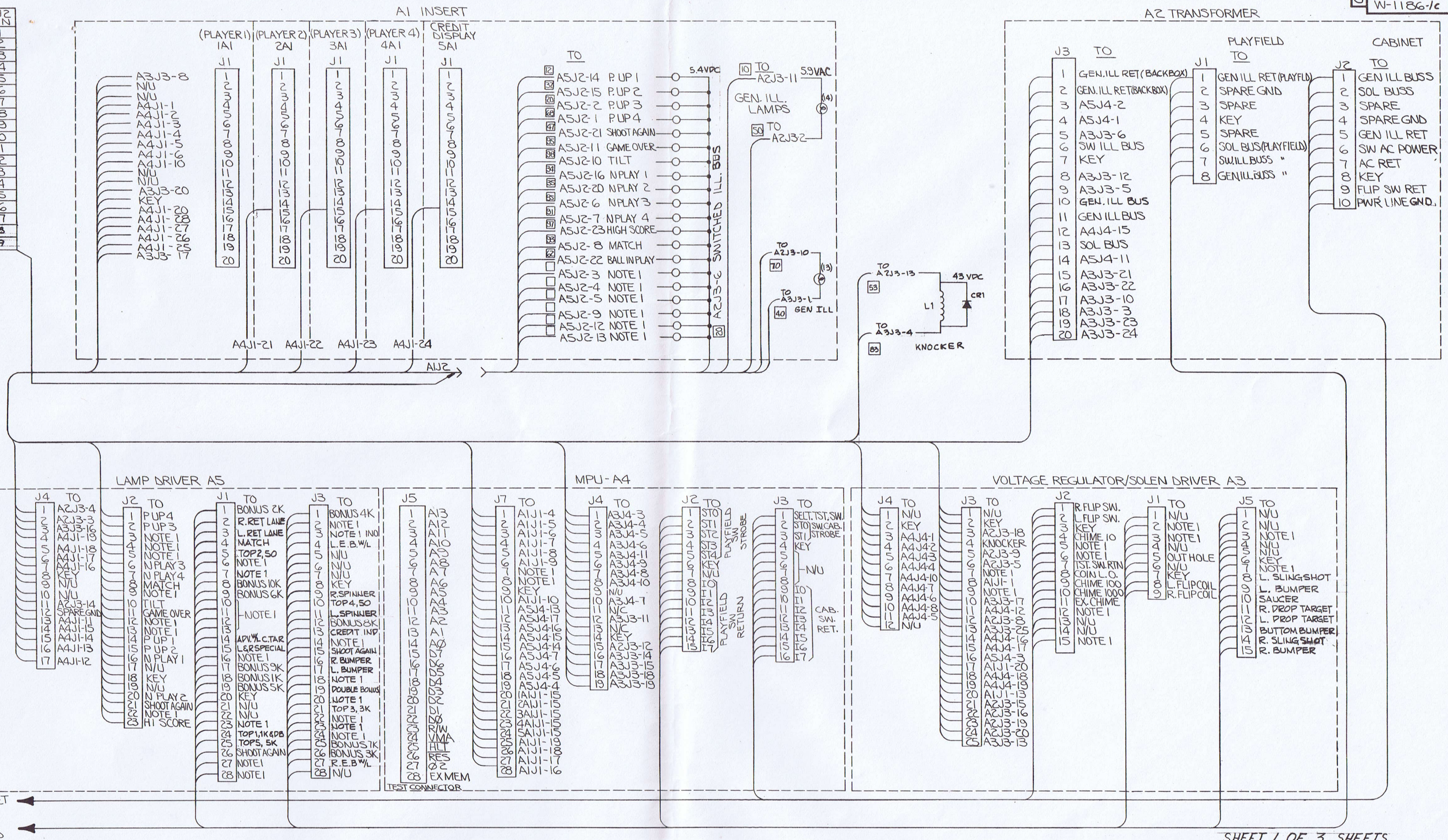
TABLE 1 POWER LINE CONNECTIONS		
LINE VOLTAGE VRMS A.C.	STRAP TERMINALS	APPLY POWER TO TERMINALS
115	1T03 AND 9T011	1 AND 9
120	1T03 AND 5T07	1 AND 5
220	3T05	1 AND 12
240	3T05	1 AND 7

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

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: 8-76		Bally MANUFACTURING CORP.	
TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED		DATE: 2-11-77		2640 BELMONT AVENUE CHICAGO, ILLINOIS	
FRACTIONS ±		AP'D BY: [Signature]		1074-E	
DECIMALS ±		DATE: 2/2/77		POWER TRANSFORMER MODULE SCHEMATIC	
ANGLES ±		HARDENING: [Signature]		ASSEMB. NO. USED ON: [Signature]	
DO NOT SCALE DRAWING		MATERIAL:		PART NO. W-1185-1c	

FROM	AJ2 PIN
ASJ3-6	1
ASJ2-14	2
A2J3-2	3
A2J3-11	4
ASJ2-23	5
ASJ2-15	6
ASJ2-22	7
ASJ2-8	8
ASJ2-1	9
ASJ2-2	10
ASJ2-11	11
ASJ2-21	12
ASJ2-10	13
ASJ2-7	14
ASJ2-6	15
ASJ2-20	16
ASJ2-16	17
A2J3-10	18
A2J3-1	19



SHEET 1 OF 3 SHEETS

ALL DESIGN, OPERATIVE AND PROCESS DATA PERTAINING TO THE ARTICLE SHOWN ON THIS SHEET IS THE PROPERTY OF BALLY 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		DR. DATE CR. DATE C.F. DATE		Bally MANUFACTURING CORP. 2640 BELMONT AVENUE CHICAGO, ILLINOIS										# 1074-E	
TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED FRACTIONS: DECIMALS: ANGLES:		APD BY DATE	DATE 1/17/77	PRINT CONTROL	PROD. CONT.	MFG. QTY.	PRE- PRE.	TOOL OTHER	SEPT. SEPT.	INC. INS.	TOL. TOL.	WASH. WASH.	TOTAL SCALE	3	2
DO NOT SCALE DRAWING		FINISH: 2	NAME WIRING DIAGRAM ELECTRONIC NIGHT RIDER	ASSGN. NO. USED ON/OF									PART NO. W-1186-1/1		
HANDSOME:		MATERIAL													

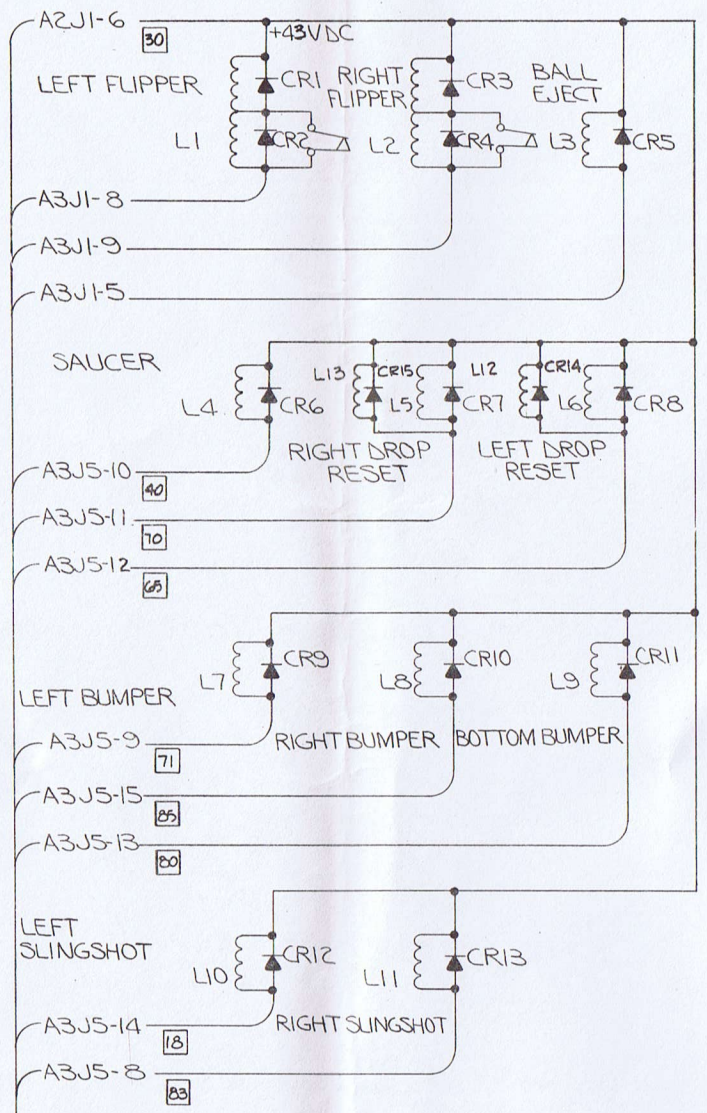
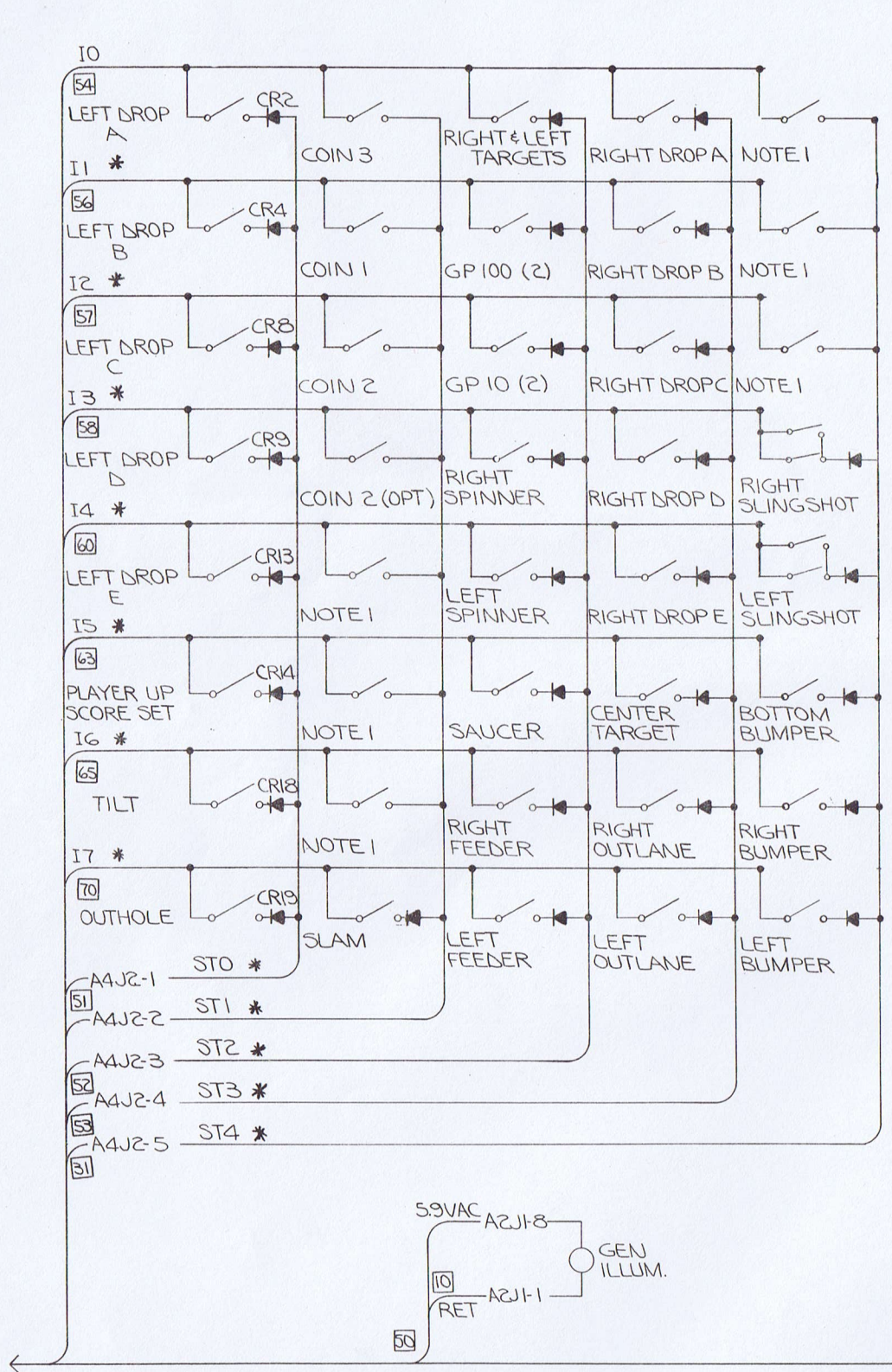
NOTES:

1. THESE PINS ARE RESERVED FOR FUTURE USE.

WIRE COLOR CODE

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

BACKBOX WIRING



- TO
- ASJ1-18 BONUS 1K
 - ASJ1-19 BONUS 5K
 - ASJ1-17 BONUS 9K
 - ASJ1-23 NOTE 1
 - ASJ1-14 ADV W/L CENTER
 - ASJ1-15 L&R SPECIAL
 - ASJ1-16 NOTE 1
 - ASJ1-28 NOTE 1
 - ASJ1-24 TOP 1, 1K & D.B.
 - ASJ1-25 TOP 5, 5K
 - ASJ1-26 NOTE 1
 - ASJ1-27 NOTE 1
 - ASJ1-1 BONUS 2K
 - ASJ1-9 BONUS 6K
 - ASJ1-8 BONUS 10K
 - ASJ1-3 LEFT LANE RET.
 - ASJ1-2 RIGHT LANE RET.
 - ASJ1-10 NOTE 1
 - ASJ1-7 NOTE 1
 - ASJ1-6 NOTE 1
 - ASJ1-5 TOP 2 50
 - ASJ1-11 NOTE 1
 - ASJ1-4 NOTE 1
 - ASJ1-12 NOTE 1
 - ASJ1-13 NOTE 1
 - ASJ1-20 KEY
 - ASJ1-21 NOTE 1
 - ASJ1-22 NOTE 1
 - ASJ3-26 BONUS 3K
 - ASJ3-25 BONUS 7K
 - ASJ3-19 DOUBLE BONUS
 - ASJ3-17 LEFT BUMPER
 - ASJ3-16 RIGHT BUMPER
 - ASJ3-23 NOTE 1
 - ASJ3-27 RT. EXTRA BALL W/L
 - ASJ3-21 TOP 3, 3K
 - ASJ3-20 NOTE 1
 - ASJ3-22 NOTE 1
 - ASJ3-24 NOTE 1
 - ASJ3-1 BONUS 4K
 - ASJ3-12 BONUS 8K
 - ASJ3-15 SHOOT AGAIN
 - ASJ3-11 LEFT SPIN
 - ASJ3-9 RIGHT SPIN
 - ASJ3-13 CREDIT IND
 - ASJ3-4 LEFT EXTRA BALL W/L
 - ASJ3-2 NOTE 1
 - ASJ3-10 TOP 4, 50
 - ASJ3-18 NOTE 1
 - ASJ3-3 NOTE 1
 - ASJ3-14 NOTE 1
 - ASJ3-5 NOTE 1
 - ASJ3-6 NOTE 1
 - ASJ3-7 NOTE 1
 - ASJ3-8 KEY
 - ASJ3-28 NOTE 1
- A2J1-7 FEATURE LAMP BUS

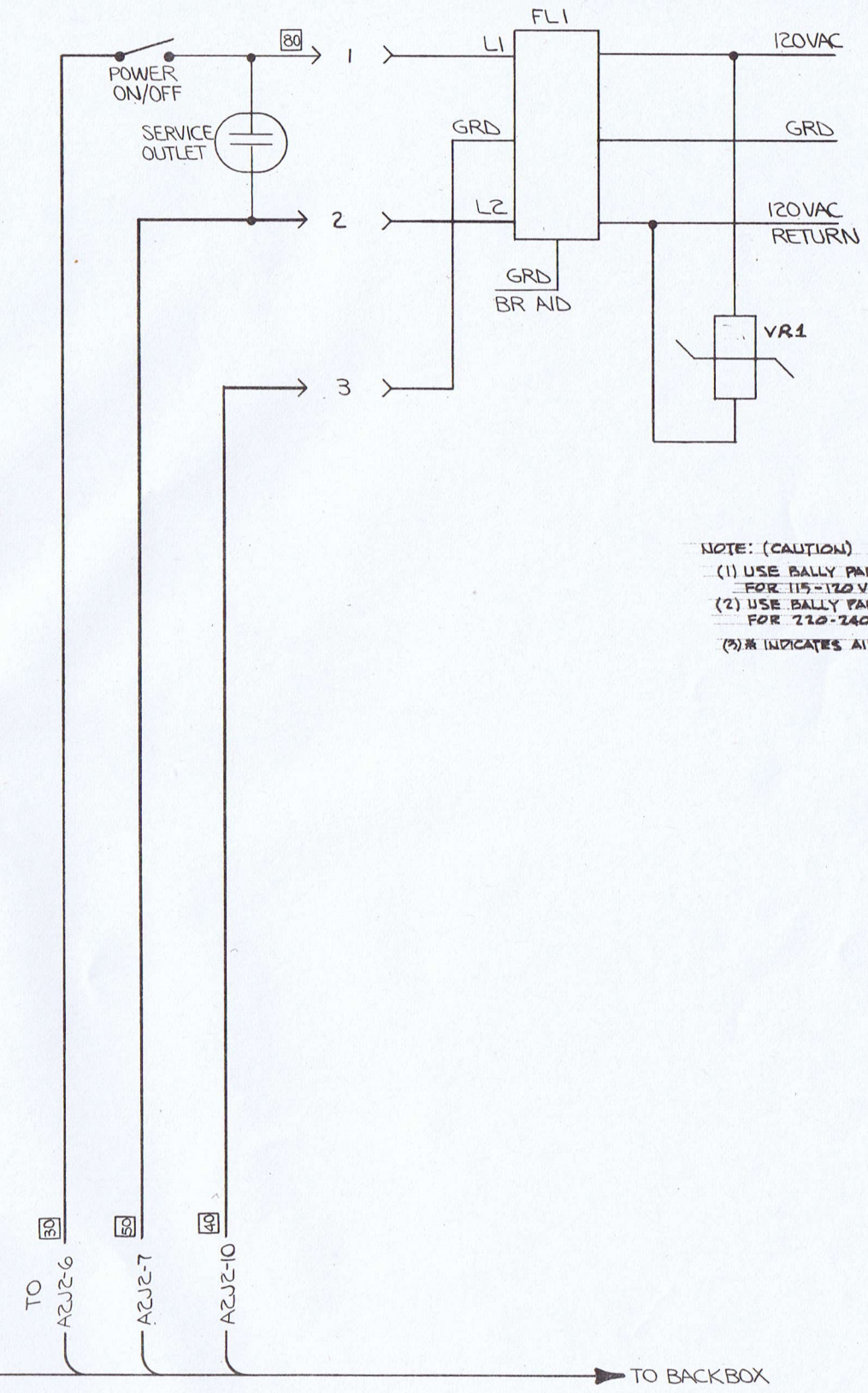
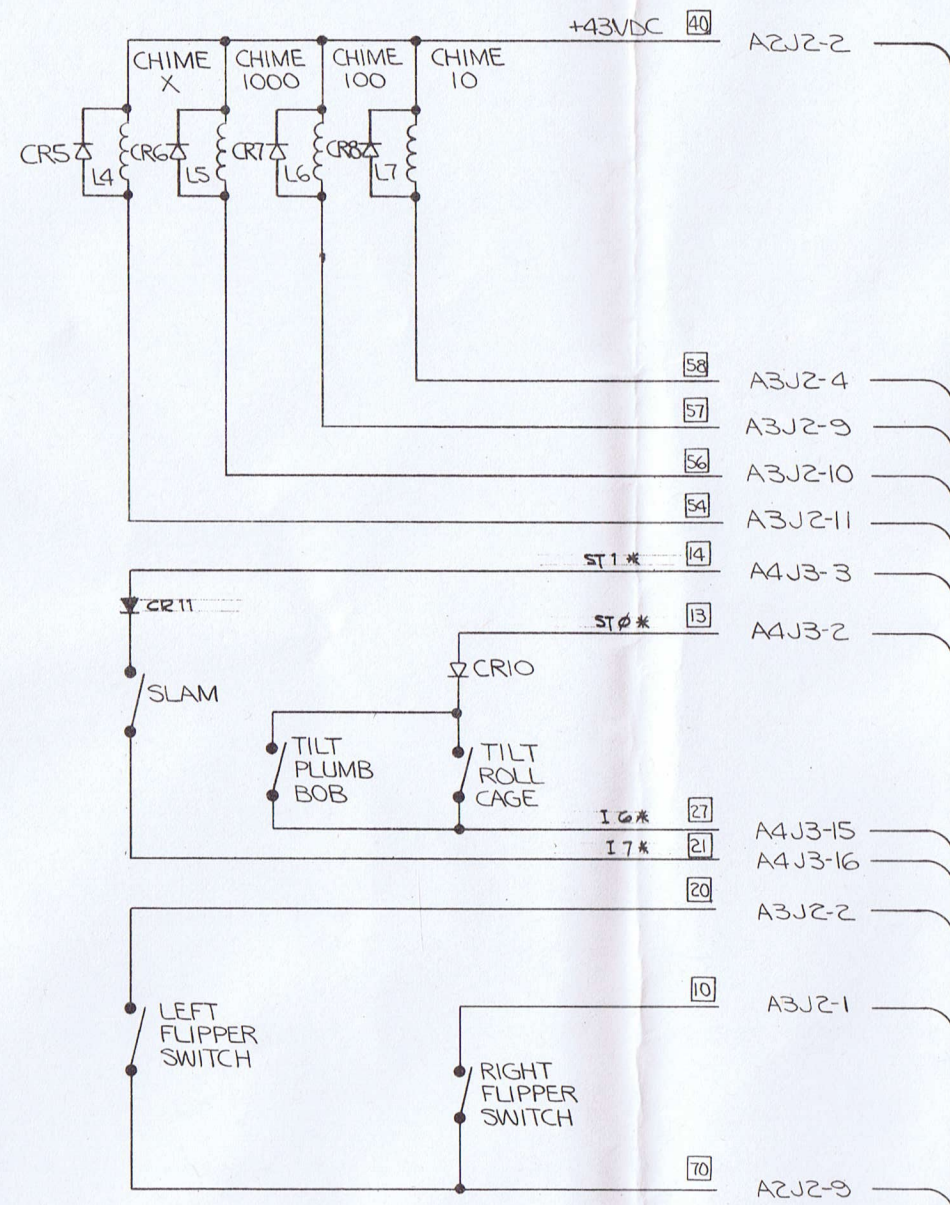
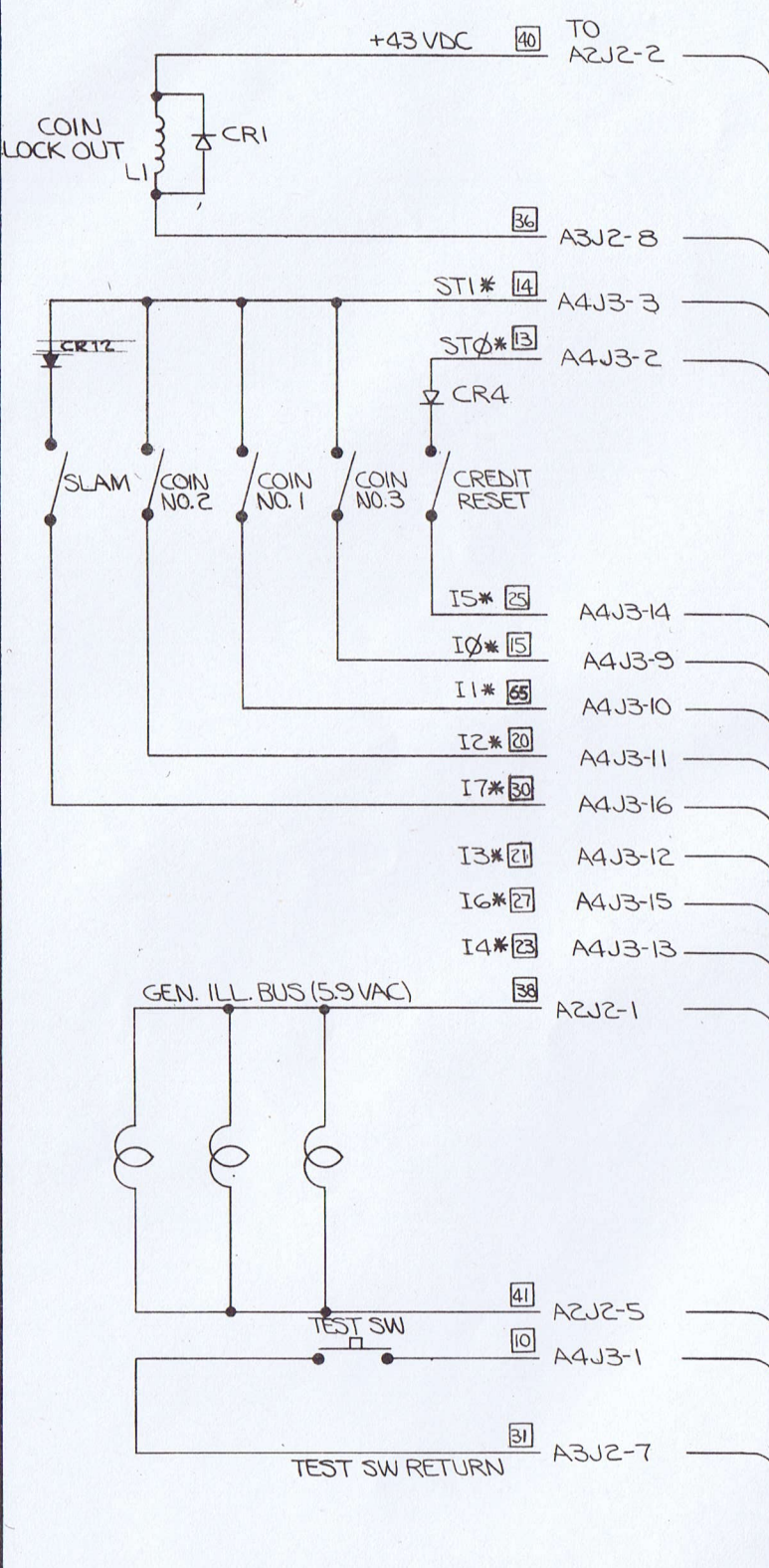
NOTES:
NOTE 1 INDICATES NOT USED.

PLAYFIELD
AG

OPER.	DEPT.	DESCRIPTION	TOOL No.
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NO.	LET.	CHANGE	DATE	BY	CK.
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REMOVE ALL BURRS		DATE 1-77		DATE 1-77	
TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED		FRACTIONS ±		DECIMALS ±	
ANGLES ±		DO NOT SCALE DRAWING			
Bally MANUFACTURING CORP. 2640 BELMONT AVENUE CHICAGO, ILLINOIS		TOTAL 3		SCALE 1/8"	
NIGHT RIDER WIRING DIAGRAM		ASSEMB. NO. USED OR/W		PART NO.	
W-1186-1c					



NOTE: (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

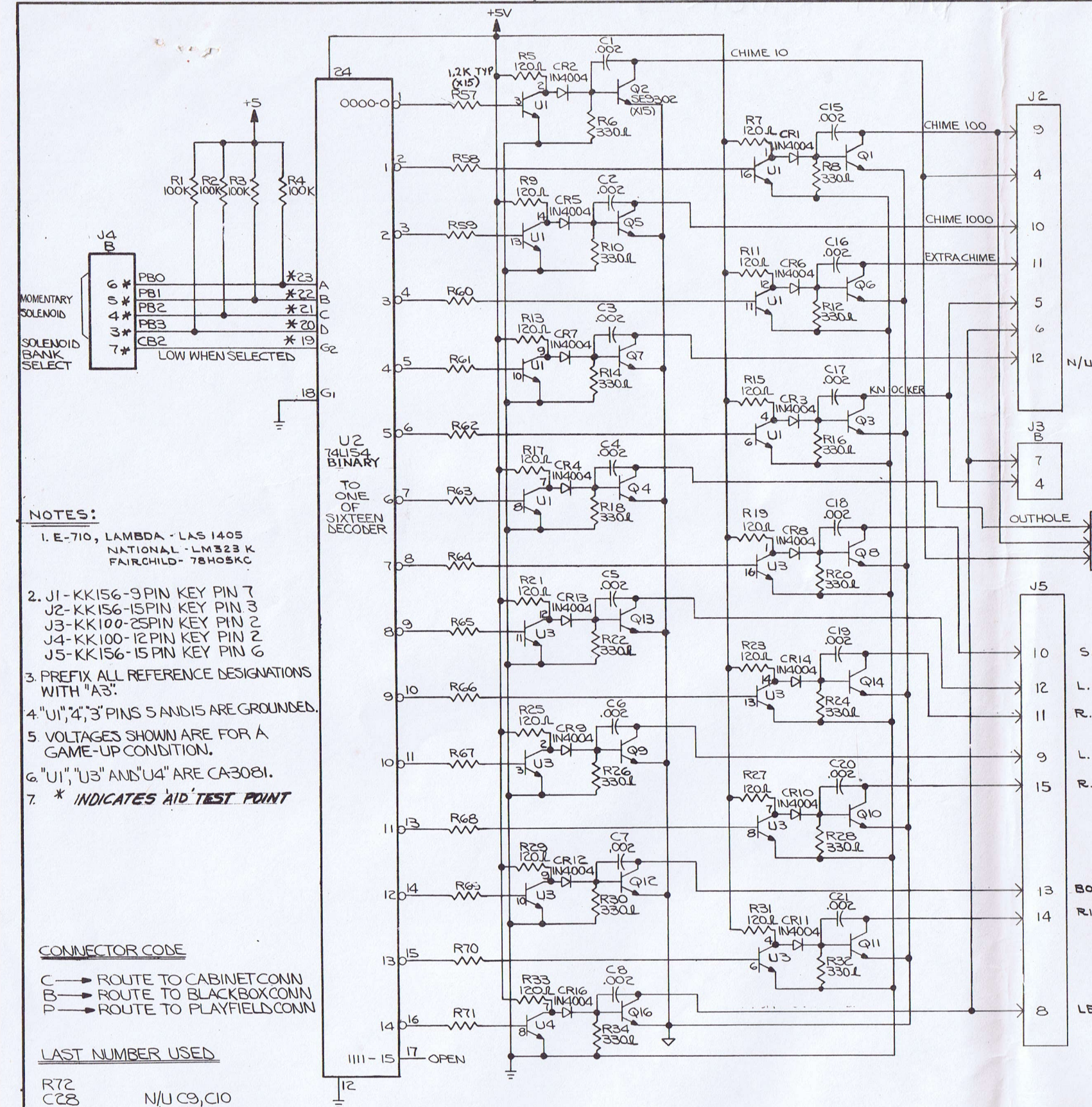
TO	J1 PIN	TO	J1 PIN
A4J3-9	1	A4J3-3	11
A4J3-10	2	A2J2-2	15
A4J3-11	3	A3J2-8	16
A4J3-12	4	A2J2-1	17
A4J3-13	5	A2J2-5	18
A4J3-14	6	A4J3-1	19
A4J3-15	7	A3J2-7	20
A4J3-16	8		
A4J3-2	10		

AT CABINET ASSY. WIRING

SHEET 3 OF 3 SHEETS
DIE SIZE — C.C. — FT. PER M — LBS. PER M —

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REMOVE ALL BURRS	DATE 11-16	Bally MANUFACTURING CORP. 2640 BELMONT AVENUE CHICAGO, ILLINOIS 60618	TOTAL 3	SCALE
TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED FRACTIONS ± DECIMALS ± ANGLES ±	DATE 2-77			
DO NOT SCALE DRAWING	DATE 2-77			
WIRING DIAGRAM ELECTRONIC NIGHT RIDER	PART NO. W-1186-c			



NOTES:

1. E-710, LAMBDA - LAS 1405
NATIONAL - LM323 K
FAIRCHILD - 78H0SKC
2. J1-KK156-9PIN KEY PIN 7
J2-KK156-15PIN KEY PIN 3
J3-KK100-25PIN KEY PIN 2
J4-KK100-12PIN KEY PIN 2
J5-KK156-15PIN KEY PIN 6
3. PREFIX ALL REFERENCE DESIGNATIONS
WITH "A3".
4. "U1", "4", "3" PINS 5 AND 15 ARE GROUND.
5. VOLTAGES SHOWN ARE FOR A
GAME-UP CONDITION.
6. "U1", "U3" AND "U4" ARE CA3081.
7. * INDICATES 'AID' TEST POINT

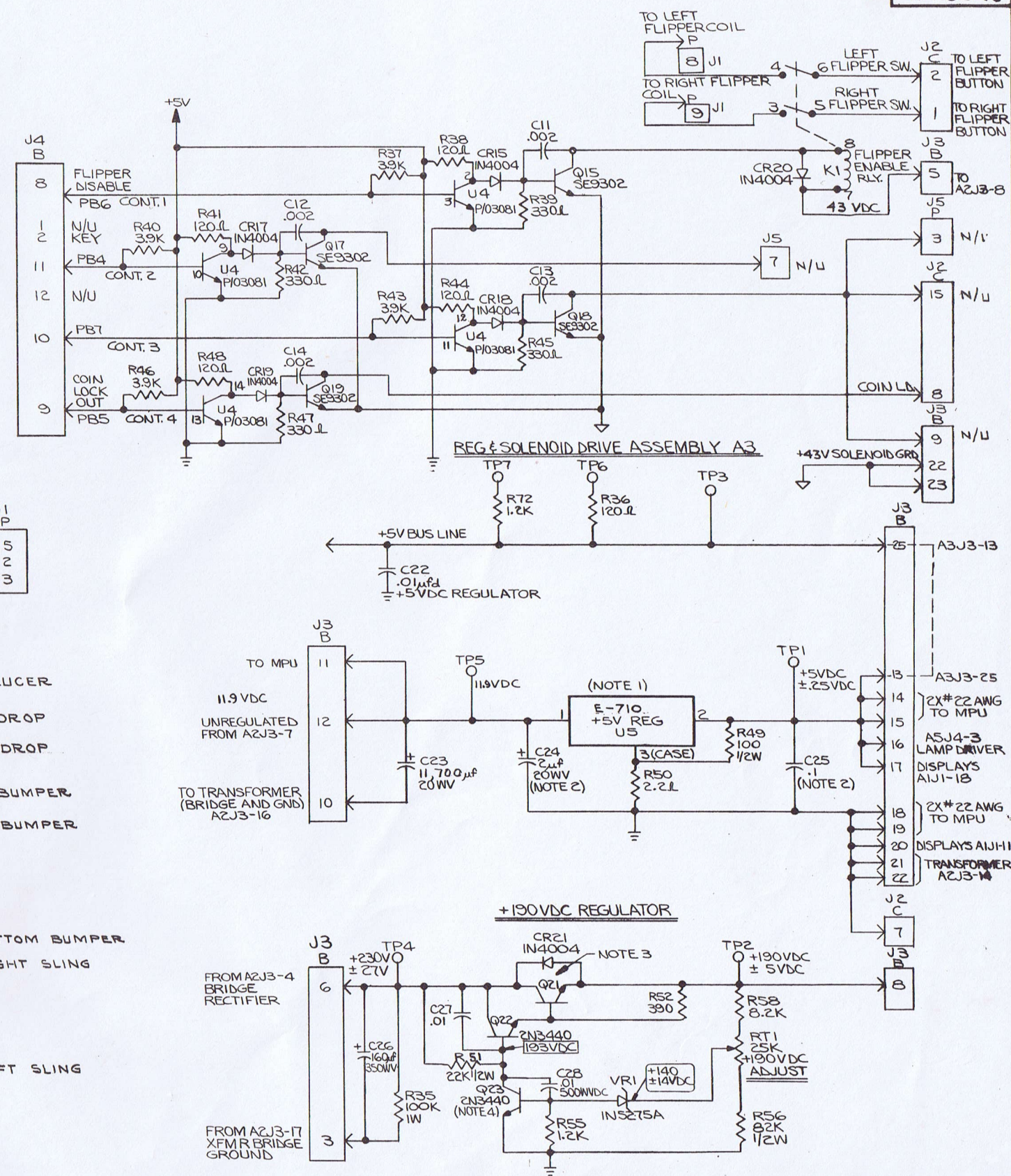
CONNECTOR CODE

C → ROUTE TO CABINET CONN
B → ROUTE TO BLACKBOX CONN
P → ROUTE TO PLAYFIELD CONN

LAST NUMBER USED

R72
C28
Q23
CR21
VR1

N/U C9, C10
N/U Q20



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REMOVE ALL BURS <u> </u>		DR BY <u>WJ</u> DATE <u>7-77</u> CK BY <u>CSN</u> DATE <u>7-77</u>		Bally MANUFACTURING CORP. 2640 BELMONT AVENUE CHICAGO, ILLINOIS # 1074-1E											
TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED FRACTIONS ± DECIMALS ± ANGLES ±		APD BY <u>WJ</u>	DATE <u>7-77</u>	PRINT CONTROL	2500 CONT.	250 GPT.	110 FILE	1000 DESIGN	500 GPT.	100 IMP.	100 TGR.	100 MGR.	TOTAL	SCALE <u>1X</u>	
DO NOT SCALE DRAWING		HAND BY <u>WJ</u>		NAME <u>KNIGHT RIDER SOLENOID DRIVER</u> <u>VOLTAGE REGULATOR SCHEMATIC</u>										PART NO. <u>W-1183-1c</u>	

OPER.	DEPT.	DESCRIPTION	TOOL No.
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NO.	LET.	CHANGE	DATE	BY	C
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