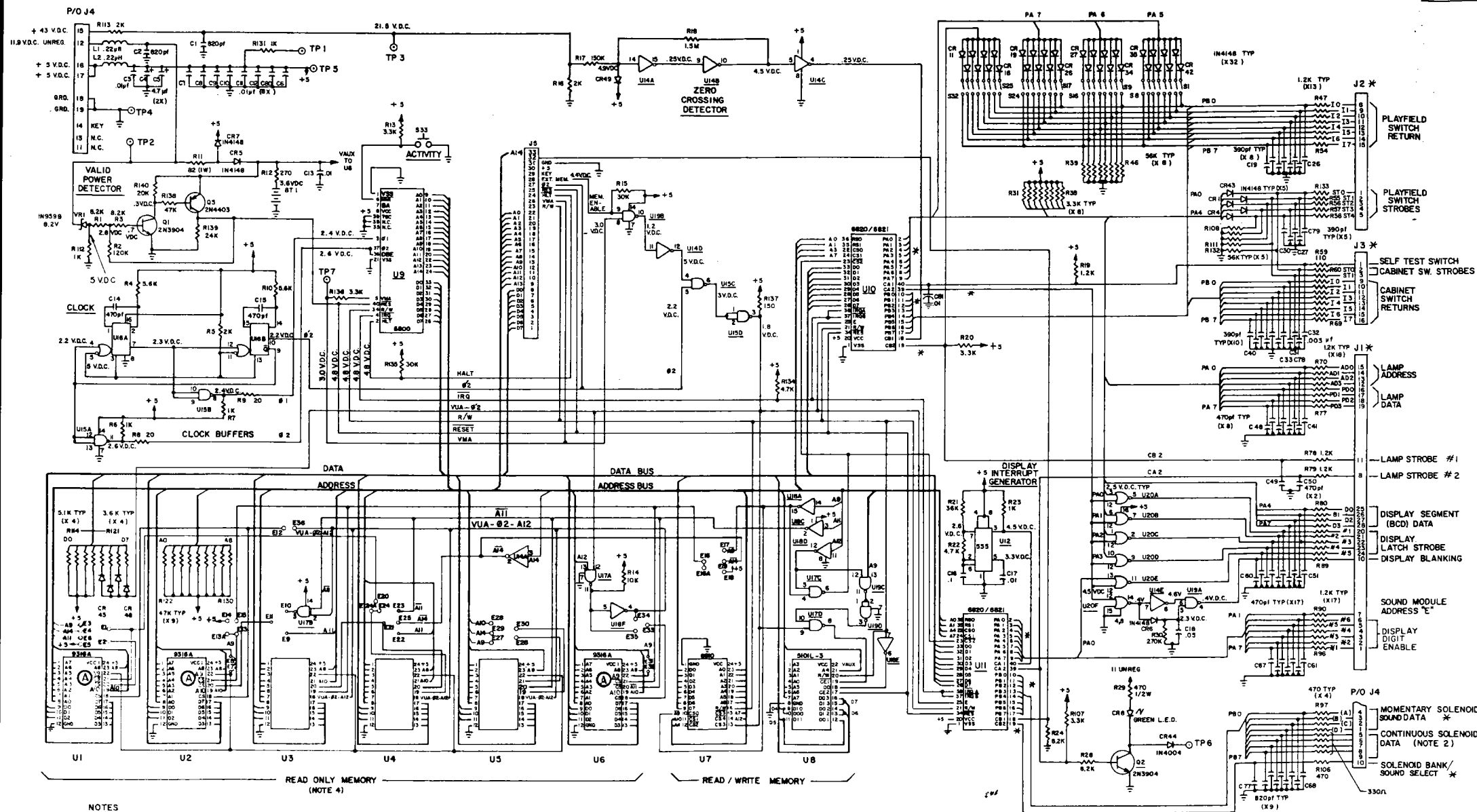


**NOTES:**

1. USE JUMPER A IF INTERNAL RAM IS USED (6802 WITHOUT U10).
2. " " B = EXTERNAL " " " (6808/6810, U10).
3. " " C = 2K ROM (EPROM) " " (G1 9316B INTEL 2716 OR EQUIV.).
4. " " D = 4K " " " (T1 TMS 2532 TMS 4732 OR EQUIV.).
5. U7, R12, R13, C10, C11 NOT USED ON THIS ASSEMBLY.
6. UNLESS OTHERWISE INDICATED, ALL RESISTOR VALUES ARE IN OHMS, ALL CAPACITOR VALUES ARE IN NMF'S.
7. PREFIX ALL REFERENCE DESIGNATIONS WITH A8.
8. \* INDICATES 'A10' TEST POINT.

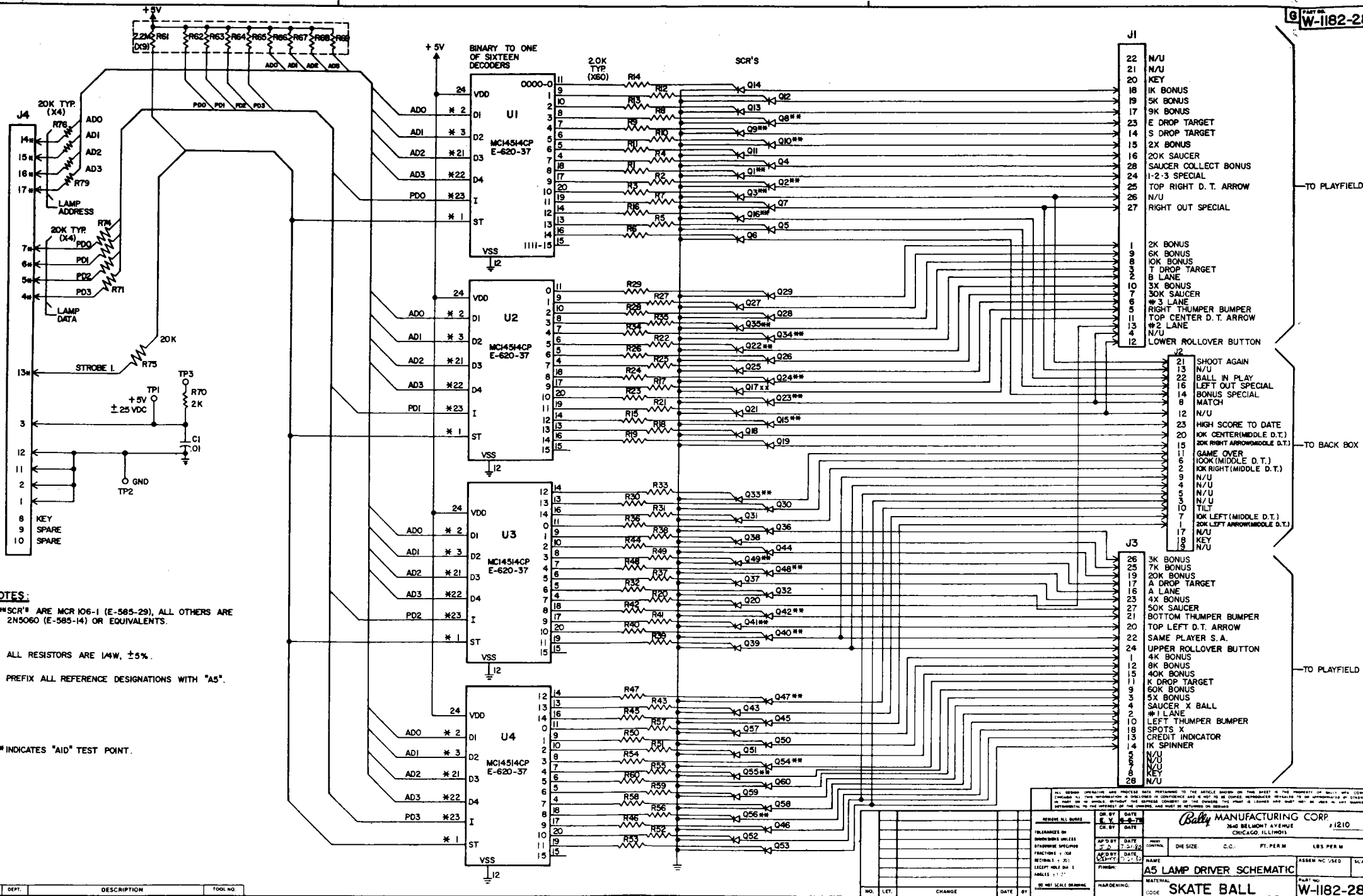
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<b>Bally MANUFACTURING CORP.</b> 3640 BELMONT AVENUE CHICAGO, ILLINOIS 60641	
DATE: 11-17-78 DESIGNED BY: [Signature] CHECKED BY: [Signature] DRAWN BY: [Signature]	SHEET: 2 OF 1 PART: COMPUTER SOUND MODULE SCHEMATIC
TOLERANCES UNLESS OTHERWISE SPECIFIED: DIMENSIONS: ± .005 ANGLES: ± 1° UNLESS OTHERWISE SPECIFIED	NAME: COMPUTER SOUND MODULE ASSEMBLY NO: W-1211-51 PART NO: W-1211 c

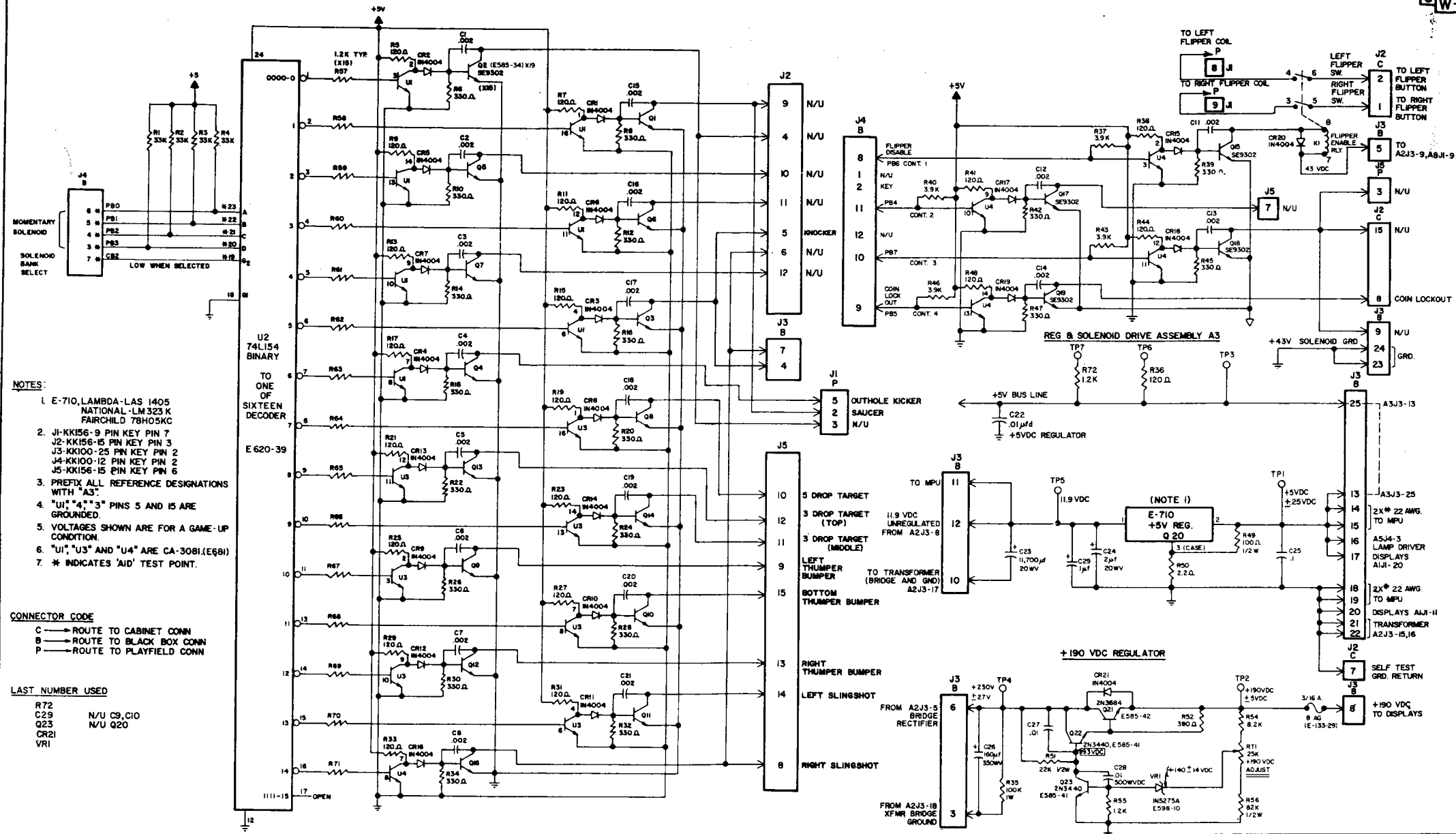


## NOTES

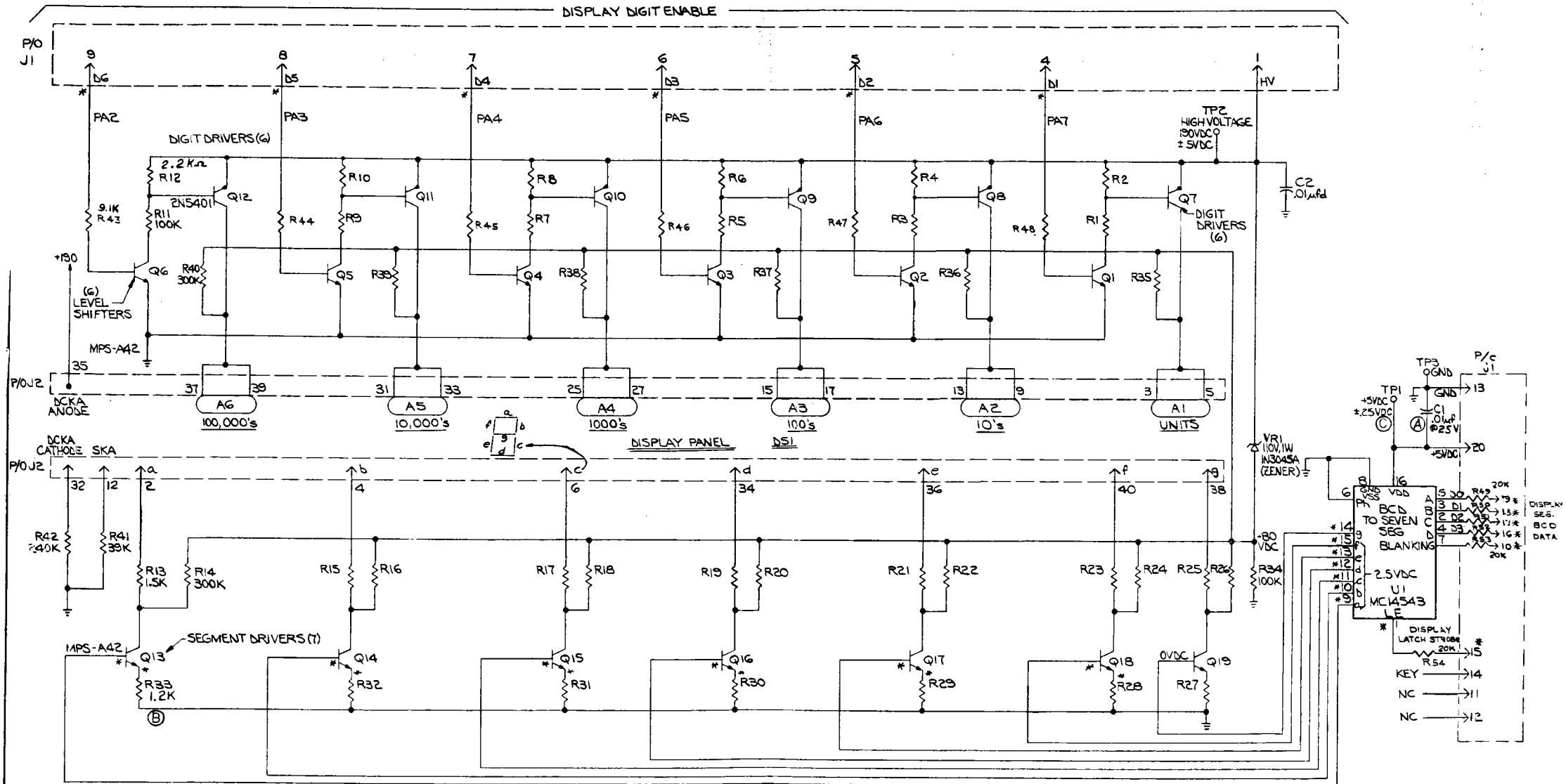
1. \* INDICATES "AID" TEST POINT.
2. REMOVE A3J4 BEFORE USING AS AID TEST POINT
3. PREFIX ALL REFERENCE DESIGNATIONS WITH "A4"
4. EXACT CHIP COMPLEMENT USED IN SOCKETS U1 THRU U6 CAN VARY FOR DIFFERENT GAMES AND PRODUCTION LOTS. TABLES OF MEMORY CHIPS AND CORRESPONDING JUMPERS FOR DIFFERENT GAMES AVAILABLE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

[illegible]





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REFUGEE ALL QUINS		DR BY DATE	<b>Betty MANUFACTURING CORP.</b> 2640 BELMONT AVENUE #1210 CHICAGO, ILLINOIS						
TRANSMISSION ON CHASSIS SERIALS	CR BY DATE	AP BY DATE		APPROVAL	ONE SIZE:	C.C.	PT. PER M	LBS. PER M	
1968 FORD MUSTANG VIN: 1A001 ENGINE: 100		AP BY DATE	7-2-80						
EXCEPT HULL BA 5 SERIALS 1	FINISH BY DATE			NAME	SOLENOID DRIVER VOLTAGE REGULATOR SCHEMATIC			ARMOR UN USED	SCALE
NO NET SCALE DRAWING				MATERIAL	SKATE BALL			PAINT NO	
	MADE QUINING						W-1183-27C		



- 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 —

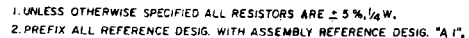
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BALLY MANUFACTURING CORP. 2640 BELMONT AVENUE CHICAGO, ILLINOIS 60647		DATE: 7/1/72	
REV. 1		REV. 2	
REV. 3		REV. 4	
REV. 5		REV. 6	
REV. 7		REV. 8	
REV. 9		REV. 10	
REV. 11		REV. 12	
REV. 13		REV. 14	
REV. 15		REV. 16	
REV. 17		REV. 18	
REV. 19		REV. 20	
REV. 21		REV. 22	
REV. 23		REV. 24	
REV. 25		REV. 26	
REV. 27		REV. 28	
REV. 29		REV. 30	
REV. 31		REV. 32	
REV. 33		REV. 34	
REV. 35		REV. 36	
REV. 37		REV. 38	
REV. 39		REV. 40	
REV. 41		REV. 42	
REV. 43		REV. 44	
REV. 45		REV. 46	
REV. 47		REV. 48	
REV. 49		REV. 50	
REV. 51		REV. 52	
REV. 53		REV. 54	
REV. 55		REV. 56	
REV. 57		REV. 58	
REV. 59		REV. 60	
REV. 61		REV. 62	
REV. 63		REV. 64	
REV. 65		REV. 66	
REV. 67		REV. 68	
REV. 69		REV. 70	
REV. 71		REV. 72	
REV. 73		REV. 74	
REV. 75		REV. 76	
REV. 77		REV. 78	
REV. 79		REV. 80	
REV. 81		REV. 82	
REV. 83		REV. 84	
REV. 85		REV. 86	
REV. 87		REV. 88	
REV. 89		REV. 90	
REV. 91		REV. 92	
REV. 93		REV. 94	
REV. 95		REV. 96	
REV. 97		REV. 98	
REV. 99		REV. 100	

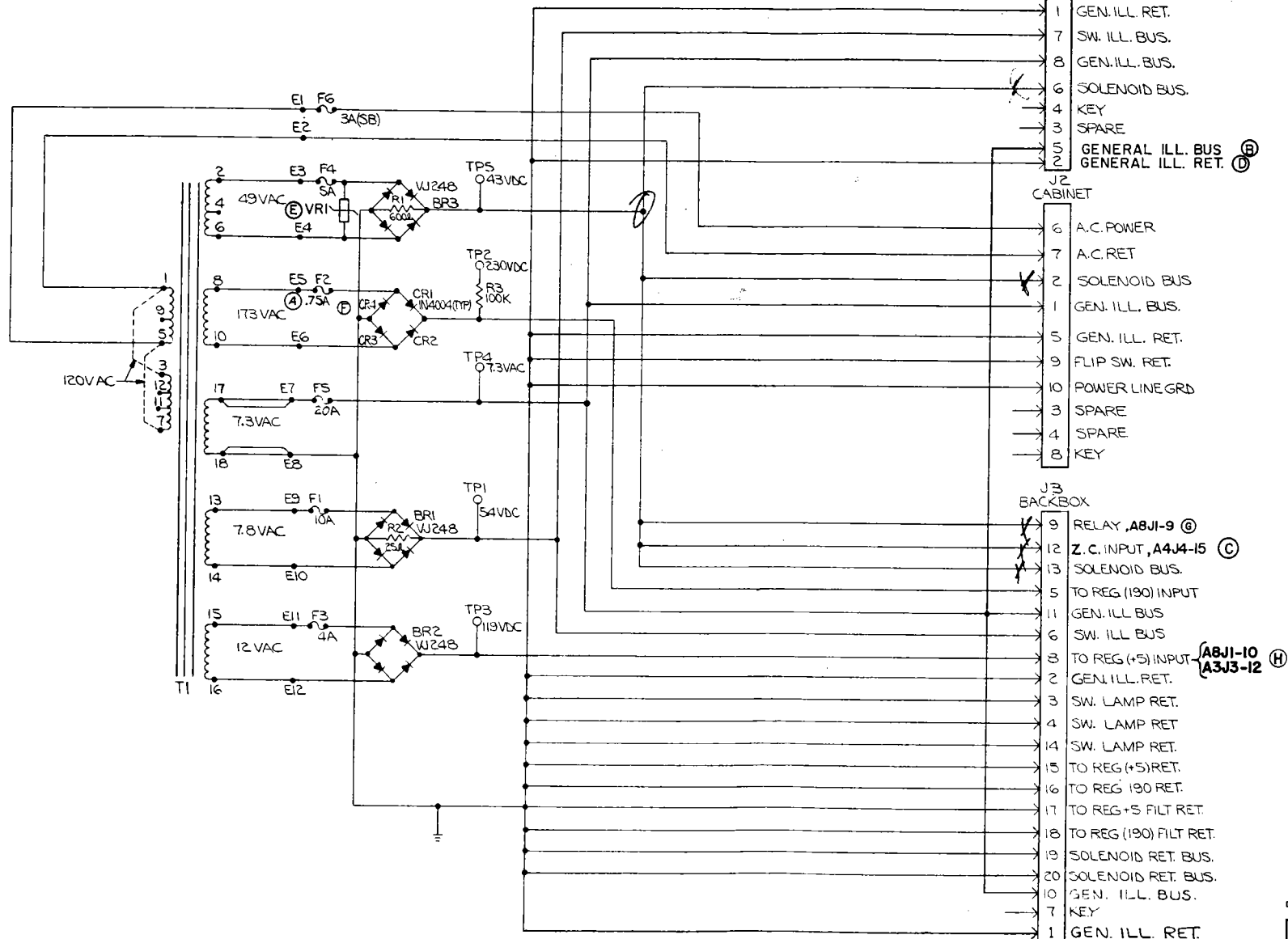
OPER.	DEPT.	DESCRIPTION	TOOL NO.
-------	-------	-------------	----------

NO.	LET.	CHANGE	DATE	BY	CR.
-----	------	--------	------	----	-----

NO.	LET.	CHANGE	DATE	BY	CR.
-----	------	--------	------	----	-----

[illegible]

# 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.

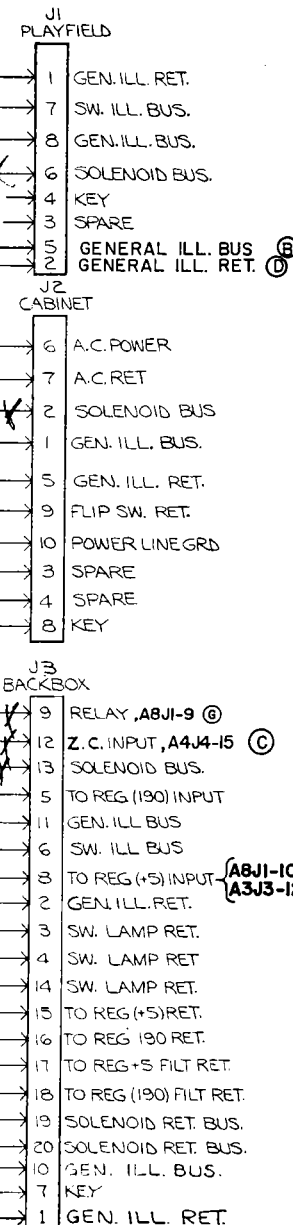
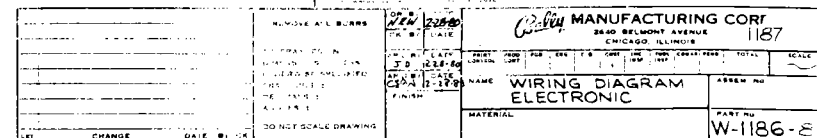


TABLE 1 POWER LINE CONNECTIONS		
LINE VOLTAGE VRMS A.C.	STRAP TERMINALS	APPLY POWER TO TERMINALS
115	1T03 AND 9T011	1 AND 9
120	1T03 AND 5T07	1 AND 5
220	3T05	1 AND 12
240	3T05	1 AND 7

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

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OPER. DEPT. _____ DESCRIPTION _____ TOOL No. _____		DATE _____ TIME _____ BY _____ CHECKED _____ APPROVED _____ SPECIAL INSTRUCTIONS _____ DO NOT SCALE DRAWING		BALLY MANUFACTURING CORP. 3646 BELMONT AVENUE CHICAGO, ILLINOIS 60641 FEB 21 1977 NAME POWER TRANSFORMER MODULE SCHEMATIC PART NO. W-1185-1c	
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AI INSERT

W-1187-23 c

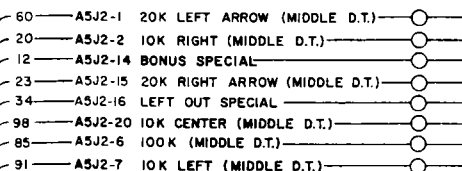
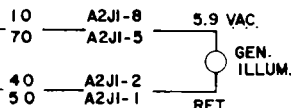
J3		TO	J1		TO	FIELD	J2	TO	CABINET
40	1	GEN.ILL. RET.(BACKBOX)	50	1	GEN.ILL. RET.(PLAY-	38	1	GEN.ILL. BUSS	
20	2	GEN.ILL. RET.(BACKBOX)	40	2	GEN.ILL. RET.	40	2	SOL. BUSS	
18	3	A5J4-2		3	SPARE		3	SPARE	
91	4	A5J4-1		4	KEY		4	SPARE GRND.	
52	5	A3J3-6	70	5	GEN.ILL. BUSS	41	5	GEN.ILL. RET.	
20	6	SW. ILL. BUSS	60	6	SOL. BUSS.(PLAYFIELD)	30	6	SW. AC POWER	
7	7	KEY	20	7	SW. ILL. BUSS	20	7	AC RET.	
70	8	A3J3-12, A8J1-10	10	8	GEN.ILL. BUSS		8	KEY	
30	9	A3J3-5, A8J1-9				70	9	FLIP. SW. RET.	
70	10	GEN. ILL. BUSS				40	10	PWR. LINE GND.	
10	11	GEN.ILL. BUSS							
90	12	A4J4-15							
53	13	SOL. BUSS							
58	14	A5J4-11							
52	15	A3J3-21							
82	16	A3J3-22							
56	17	A3J3-10							
50	18	A3J3-3							
13	19	A3J3-23							
57	20	A3J3-24							

[illegible]

VOLTAGE REGULATOR / SOLENOID DRIVER A3

J3	TO	J2	TO	J1	TO	J5	TO
1	N/U	10	R. FLIP SW.	1	N/U	1	N/U
2	KEY	20	L. FLIP SW.	2	SAUCER	2	N/U
3	A2J3-18	3	KEY	3	N/U	3	N/U
4	N/U	4	N/U	4	N/U	4	N/U
5	A2J3-9	85	KNOCKER	5	OUTHOLE	5	N/U
6	A2J3-5	6	NOTE L	6	N/U	6	KEY
7	NOTE I	31	TEST SW. RET.	7	KEY	7	N/U
8	A1J1-1	36	COIN LOCKOUT	8	L. FLIP COIL	8	RIGHT SLINGSHOT
9	NOTE I	58	N/U	9	R. FLIP COIL	9	LEFT THUMPER BUMPER
10	A2J3-17	57	N/U	10		10	5 DROP TARGET
11	A4J4-12	56	N/U	11		11	3 DROP TARGET (MIDDLE)
12	A2J3-8	54	N/U	12		12	3 DROP TARGET (TOP)
13	A3J3-25	13		13		13	RIGHT THUMPER BUMPER
14	A4J4-16	14		14		14	LEFT SLINGSHOT
15	A4J4-17	15		15		15	BOTTOM THUMPER BUMPER
16	ASJ4-3						
17	A1J1-20						
18	A4J4-18						
19	A4J4-19						
20	A1J1-13						
21	A2J3-15						
22	A2J3-16						
23	A2J3-19						
24	A2J3-20						
25	ASJ3-13						

[illegible]



- |    |                               |  |
|----|-------------------------------|--|
| 43 | A5J3-26 3K BONUS              |  |
| 36 | A5J3-25 7K BONUS              |  |
| 67 | A5J3-19 20K BONUS             |  |
| 13 | A5J3-17 "A" DROP TARGET       |  |
| 25 | A5J3-16 "A" LANE              |  |
| 98 | A5J3-23 4X BONUS              |  |
| 40 | A5J3-27 50K SAUCER            |  |
| 30 | A5J3-21 BOTTOM THUMPER BUMPER |  |
| 64 | A5J3-20 TOP LEFT D. ARROW     |  |
| 23 | A5J3-22 SAME PLAYER S.A.      |  |
| 72 | A5J3-24 UPPER ROLLOVER BUTTON |  |
| 10 | A5J3-1 4K BONUS               |  |
| 21 | A5J3-12 8K BONUS              |  |
| 53 | A5J3-15 40K BONUS             |  |
| 20 | A5J3-11 "K" DROP TARGET       |  |
| 15 | A5J3-9 60K BONUS              |  |
| 35 | A5J3-13 CREDIT INDICATOR      |  |
| 14 | A5J3-4 SAUCER X-BALL          |  |
| 95 | A5J3-2 *1 LANE                |  |
| 91 | A5J3-10 LEFT THUMPER BUMPER   |  |
| 56 | A5J3-18 SPOTS "X"             |  |
| 81 | A5J3-3 5X BONUS               |  |
| 84 | A5J3-14 IK SPINNER            |  |
| 20 | A2J1-7 FEATURE LAMP BUS       |  |

## 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 IN 4148,(E-587-M)  
ALL CAPACITORS ARE .05 MFD. (E-586-80)
5. GERMANY ONLY- CAPACITOR .01 MFD. @ 500V.(E-586-65)

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		<b>#1210</b>																	
		<b>SWITCH MATRIX</b>																	
		<b>SKATE BALL</b>																	
		<b>FAST NO. W-1192-230</b>																	