

Bally BMX

GAME
1276
FO 747

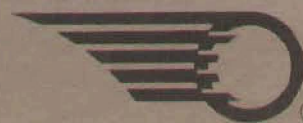


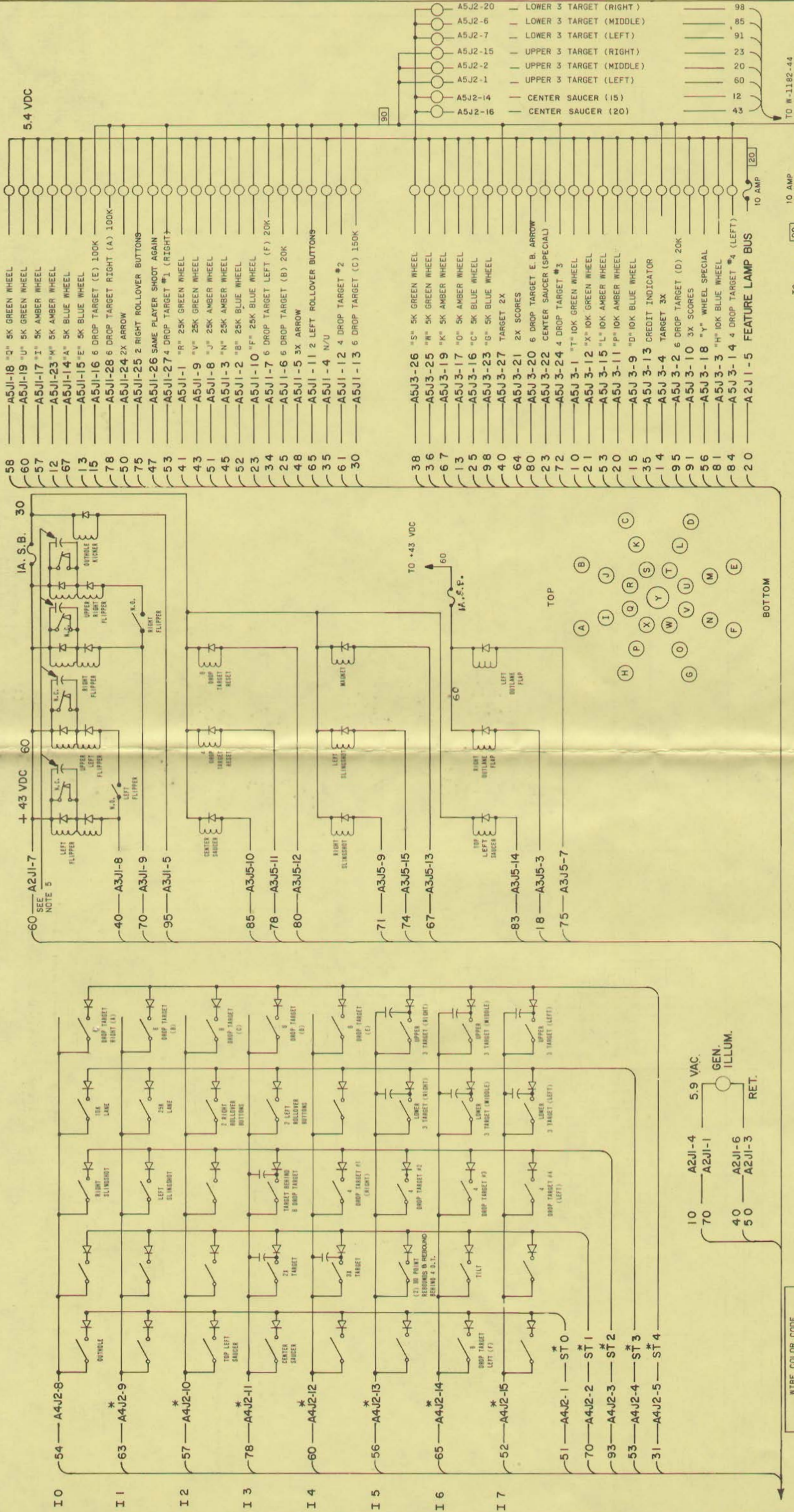
Bally

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PINBALL DIVISION

90 O'Leary Drive, Bensenville, Illinois 60106, U.S.A.
Telephone: (312) 860-6400





WIRE COLOR CODE

1-RED	-R-	5-BROWN	-BR-
2-BLUE	-BLU-	6-ORANGE	-O-
3-YELLOW	-Y-	7-BLACK	-B-
4-GREEN	-G-	8-GRAY	-GR-
5-WHITE	-W-	9-NO TRACER	-N-
J-JUMPER	-J-	10-NO TRACER	-N-
1-FIRST NUMBER-BODY COLOR		2-SECOND NUMBER-TRACER COLOR	
EXAMPLE: 50 -WHITE			
51 -WHITE-RED			

NOTES

1. INDICATES NOT USED
2. N/U = NOT USED ON PLAYFIELD
3. * INDICATES AID TEST POINT
4. COIL DIODES ARE IN 4004 (E-587-6) SWITCH DIODES ARE IN 4148 (E-587-14)
5. ALL CAPACITORS ARE .05 MFD. (E-586-80)
6. GERMANY ONLY - CAPACITOR 01 MFD. @ 500V (E-586-65)

PLAYFIELD A6

WIRING DIAGRAM PLAYFIELD

BELLY MANUFACTURING CORP.
2640 BELMONT AVENUE
CHICAGO, ILLINOIS 60647

SCALE

DATE

BY

CHKD BY

APPROVED BY

REVISIONS

NO.	DATE	DESCRIPTION
1	12-27-66	INITIAL DESIGN
2	1-10-67	REVISED FOR MANUFACTURE

WIRING DIAGRAM PLAYFIELD

MATERIAL

BMX

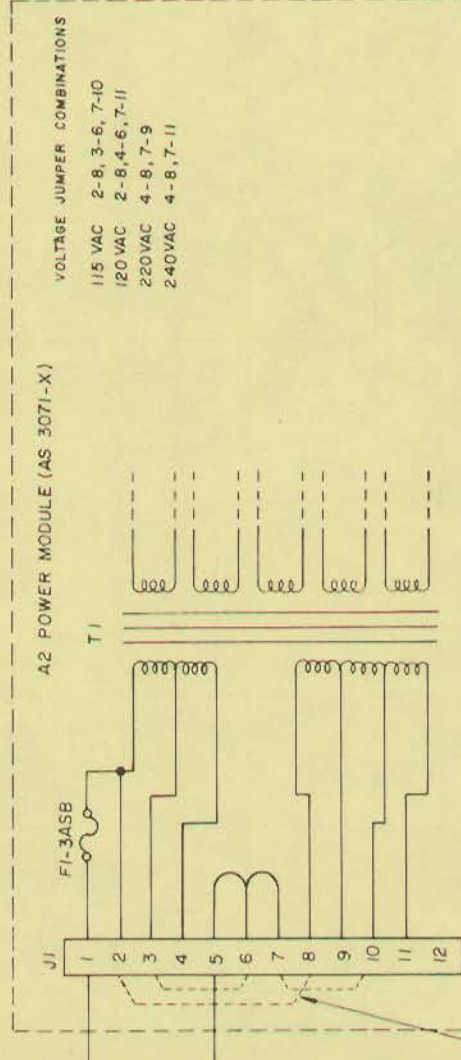
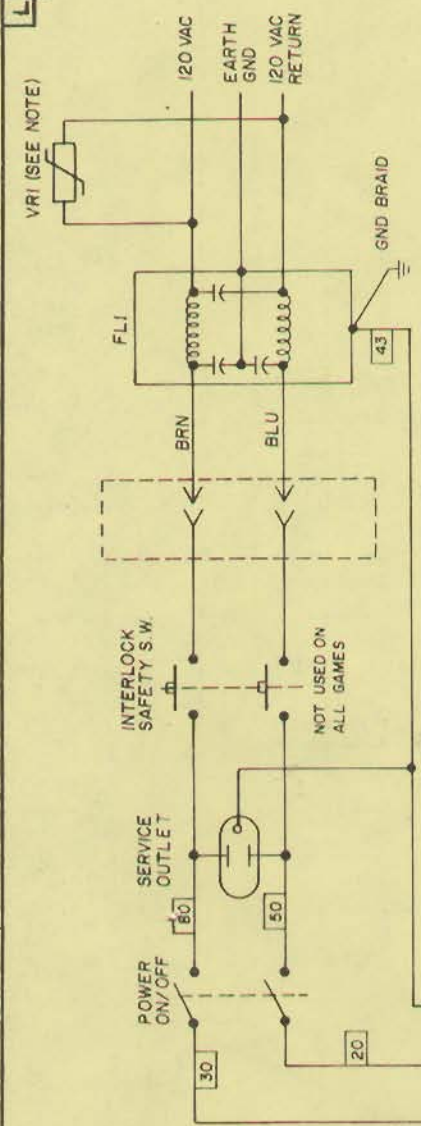
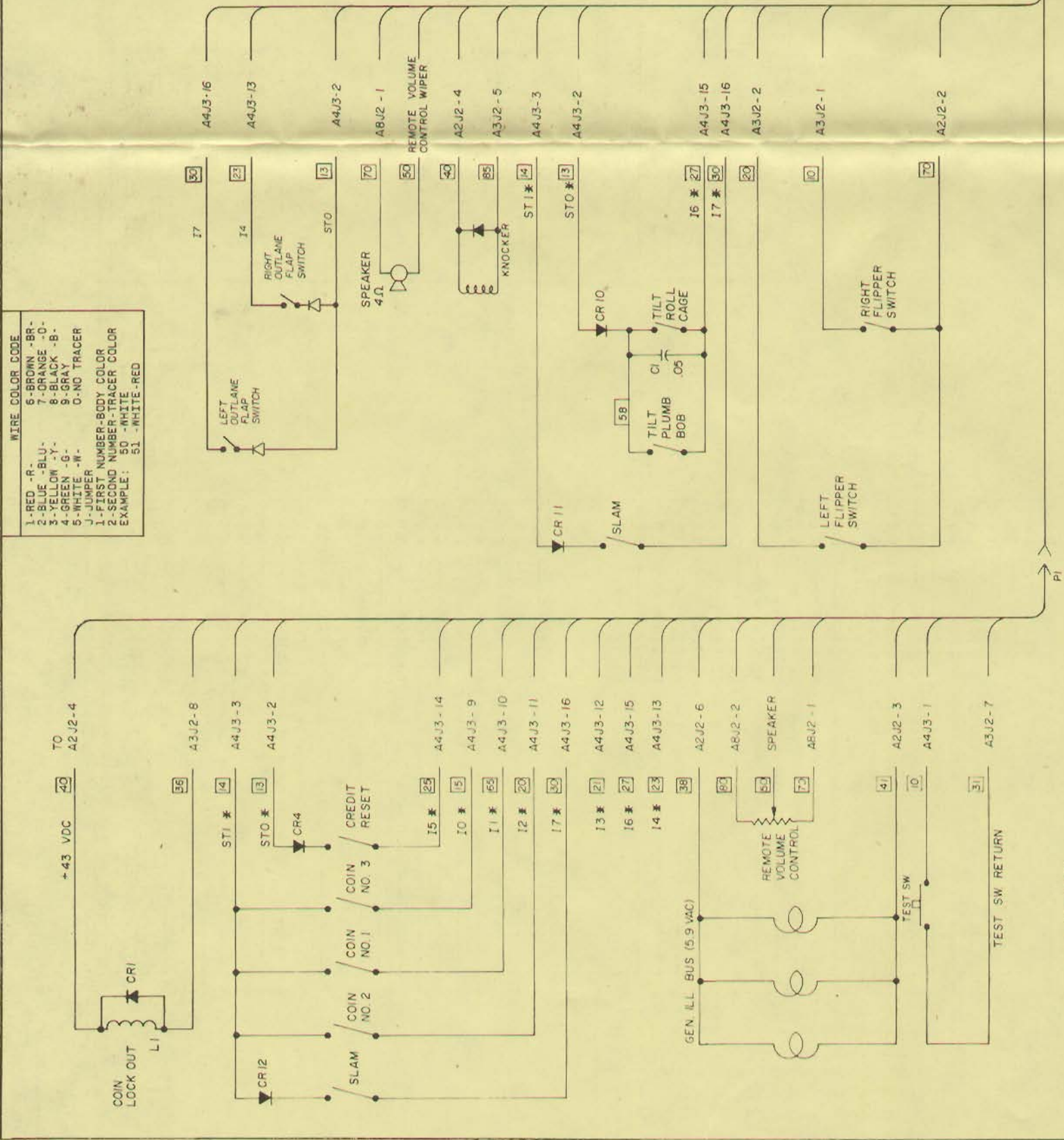
PART NO.

W-1192-39c

WIRE COLOR CODE

1-RED - R.	6-BROWN - BR.
2-BLUE - BLU.	7-ORANGE - O.
3-YELLOW - Y.	8-BLACK - B.
4-GREEN - G.	9-GRAY - GR.
5-WHITE - W.	0-NO TRACER

J-JUMPER
1-FIRST NUMBER-BODY COLOR
2-SECOND NUMBER-TRACER COLOR
EXAMPLE: 50 -WHITE
51 -WHITE-RED

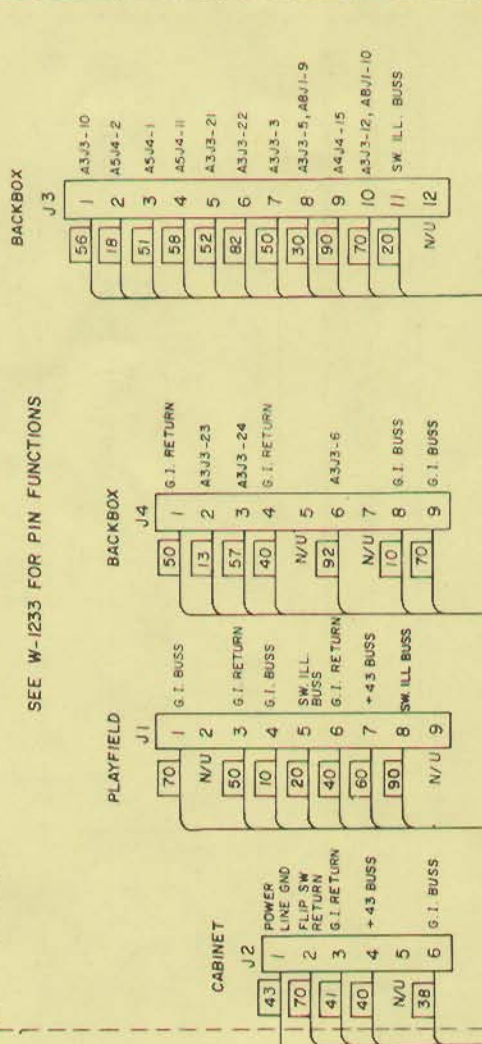


VOLTAGE JUMPER COMBINATIONS

115 VAC	2-8, 3-6, 7-10
120 VAC	2-8, 4-6, 7-11
220VAC	4-8, 7-9
240VAC	4-8, 7-11

VOLTAGE JUMPERS SHOWN FOR 115 VAC

SEE W-1233 FOR PIN FUNCTIONS



DOOR PLUG

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
A4J3-2	10	A8J2-1	12
		A8J2-2	13

A7 CABINET ASS'Y. WIRING
NOTE: DIODES ARE IN4004 (E-587-6)

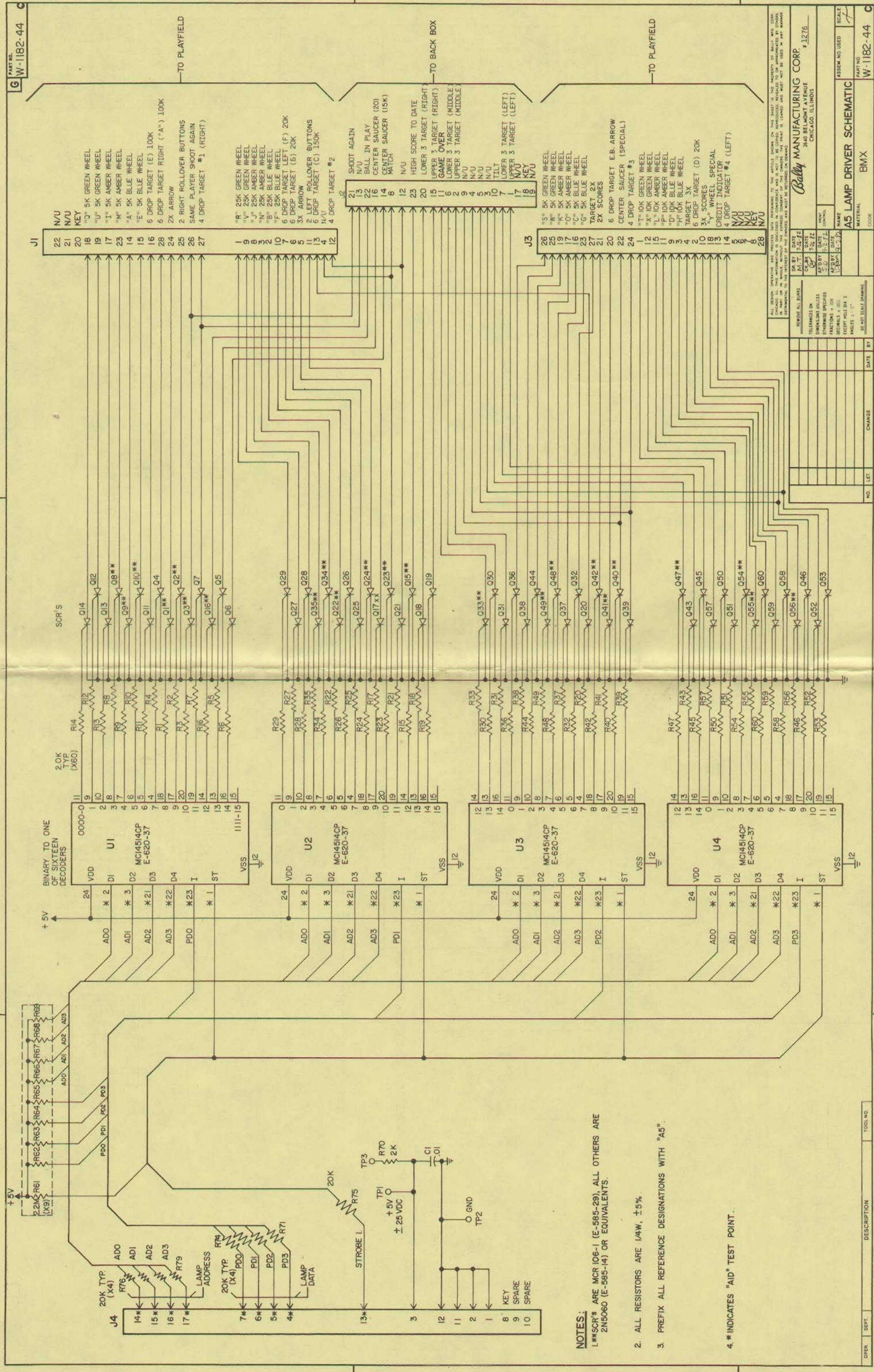
- NOTES: (CAUTION)
1. USE BALLY PART NO. E-713 FOR 115-120 VAC.
 2. USE BALLY PART NO. E-713-1 FOR 220-240 VAC.
 3. * INDICATES AID TEST POINT.

REWORK ALL BUSES

DATE: 3-24-72
BY: [Signature]
CHECKED: [Signature]
APPROVED: [Signature]

WIRING DIAGRAM - CABINET

W-1186-22c



2. ALL RESISTORS ARE 1/4W, $\pm 5\%$.
3. PREFIX ALL REFERENCE DESIGNATIONS WITH "A5".
4. * INDICATES "AID" TEST POINT.

TABLE A AIJ2

FROM	PIN	WIRE
A2J3-11	1	20
A5J2-14	2	12
A2J4-8	3	50
A5J2-23	5	97
A5J2-15	6	23
A5J2-22	7	62
A5J2-8	8	70
A5J2-1	9	60
A5J2-2	10	20
A5J2-11	11	95
A5J2-21	12	47
A5J2-10	13	35
A5J2-7	14	91
A5J2-6	15	85
A5J2-20	16	98
A5J2-16	17	43
A2J4-4	18	40
A2J2-9	19	70
	20	
	21	
	22	
A8J1-7	23	
	24	70

INSERT TO BACK CAB
PLUG

AI INSERT

(PLAYER 1) 1A1	(PLAYER 2) 2A1	(PLAYER 3) 3A1	(PLAYER 4) 4A1	CREDIT 5A1
TO 10 - A3J3-8 N/U N/U N/U 80 - A4J1-1 20 - A4J1-2 30 - A4J1-3 40 - A4J1-4 50 - A4J1-5 58 - A4J1-6 70 - A4J1-10 N/U 84 A4J1-7 60 - A3J3-20 KEY 85 - A4J1-20 54 - A4J1-28 38 - A4J1-27 25 - A4J1-26 51 - A4J1-25 45 - A3J3-17	J1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	J1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	J1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	J1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

A4J1-21 A4J1-22 A4J1-23 A4J1-24

AIJ2
SEE
TABLE A

LAMP DRIVER A5

J4	TO	J1	TO	J3	TO
51	A2J3-3	41	1	10	1
18	A2J3-2	42	2	95	2
84	A3J3-16	43	3	81	3
74	A4J1-19	44	4	14	4
71	A4J1-18	45	5	5	5
23	A4J1-17	46	6	N/U	6
63	A4J1-16	47	7	N/U	7
8	KEY	48	8	N/U	8
9	N/U	49	9	N/U	9
10	N/U	50	10	N/U	10
58	A2J3-4	51	11	20	11
12	SPARE GND	52	12	21	12
75	A4J1-11	53	13	35	13
32	A4J1-15	54	14	84	14
13	A4J1-14	55	15	53	15
45	A4J1-13	56	16	25	16
48	A4J1-12	57	17	13	17
		58	18	56	18
		59	19	67	19
		60	20	80	20
		61	21	64	21
		62	22	23	22
		63	23	98	23
		64	24	72	24
		65	25	36	25
		66	26	38	26
		67	27	40	27
		68	28	28	28

TEST CONNECTOR
1 D7
2 D6
3 D5
4 D4
5 D3
6 D2
7 D1
8 D0
9 A13
10 A12
11 A11
12 A10
13 A9
14 A8
15 A7
16 A6
17 A5
18 A4
19 A3
20 A2
21 A1
22 A0
23 R/W
24 HLT
25 RES
26 VMA
27 02
28 EX
29 KEY
30 +5VDC
31 GND
32 A4J1-18

MPU A4

J4	TO	J1	TO	J3	TO
15	A3J4-3	80	1	10	1
78	A3J4-4	20	2	3	2
21	A3J4-5	30	3	4	3
23	A3J4-6	40	4	5	4
36	A3J4-11	50	5	6	5
27	A3J4-9	60	6	7	6
25	A3J4-8	70	7	8	7
31	A3J4-10	80	8	9	8
61	A3J4-7	90	9	10	9
11	N/C	100	10	11	10
14	A3J3-11	110	11	12	11
13	N/C	120	12	13	12
14	KEY	130	13	14	13
90	A2J3-9	140	14	15	14
96	A3J3-14	150	15	16	15
54	A3J3-15	160	16	17	16
94	A3J3-18	170	17	18	17
81	A3J3-19	180	18	19	18

VOLTAGE REGULATOR / SOLENOID DRIVER A3

J4	TO	J3	TO	J2	TO	J1	TO	J5	TO
15	N/U	1	N/U	20	1	1	N/U	1	N/U
15	KEY	2	KEY	21	2	2	KEY	2	KEY
78	A4J4-1	50	3	22	3	3	N/U	3	N/U
21	A4J4-2	30	4	23	4	4	N/U	4	N/U
23	A4J4-3	31	5	24	5	5	N/U	5	N/U
25	A4J4-4	32	6	25	6	6	N/U	6	N/U
27	A4J4-5	33	7	26	7	7	N/U	7	N/U
28	A4J4-6	34	8	27	8	8	N/U	8	N/U
31	A4J4-7	35	9	28	9	9	N/U	9	N/U
36	A4J4-8	36	10	29	10	10	N/U	10	N/U
36	N/U	37	11	30	11	11	N/U	11	N/U
36	N/U	38	12	31	12	12	N/U	12	N/U
36	N/U	39	13	32	13	13	N/U	13	N/U
36	N/U	40	14	33	14	14	N/U	14	N/U
36	N/U	41	15	34	15	15	N/U	15	N/U

LAMP DRIVER A5

J4	TO	J1	TO	J3	TO
51	A2J3-3	41	1	10	1
18	A2J3-2	42	2	95	2
84	A3J3-16	43	3	81	3
74	A4J1-19	44	4	14	4
71	A4J1-18	45	5	5	5
23	A4J1-17	46	6	N/U	6
63	A4J1-16	47	7	N/U	7
8	KEY	48	8	N/U	8
9	N/U	49	9	N/U	9
10	N/U	50	10	N/U	10
58	A2J3-4	51	11	20	11
12	SPARE GND	52	12	21	12
75	A4J1-11	53	13	35	13
32	A4J1-15	54	14	84	14
13	A4J1-14	55	15	53	15
45	A4J1-13	56	16	25	16
48	A4J1-12	57	17	13	17
		58	18	56	18
		59	19	67	19
		60	20	80	20
		61	21	64	21
		62	22	23	22
		63	23	98	23
		64	24	72	24
		65	25	36	25
		66	26	38	26
		67	27	40	27
		68	28	28	28

TEST CONNECTOR
1 D7
2 D6
3 D5
4 D4
5 D3
6 D2
7 D1
8 D0
9 A13
10 A12
11 A11
12 A10
13 A9
14 A8
15 A7
16 A6
17 A5
18 A4
19 A3
20 A2
21 A1
22 A0
23 R/W
24 HLT
25 RES
26 VMA
27 02
28 EX
29 KEY
30 +5VDC
31 GND
32 A4J1-18

TO LOWER
CABINET

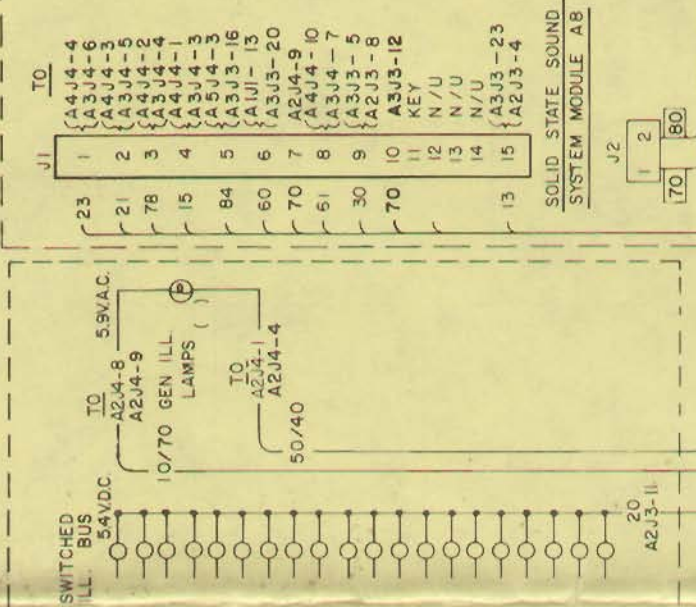
TO PLAYFIELD

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

FROM	PIN	WIRE
A5J2-14	1	12
A5J2-2	2	20
A5J2-15	3	23
A5J2-16	4	43
A5J2-1	5	60
A5J2-6	6	85
A5J2-7	7	91
A5J2-20	8	98
PANEL TO BACK CABINET		



VOLTAGE REGULATOR / SOLENOID DRIVER A3

J4	TO	J3	TO	J2	TO	J1	TO	J5	TO
15	N/U	1	N/U	20	1	1	N/U	1	N/U
15	KEY	2	KEY	21	2	2	KEY	2	KEY
78	A4J4-1	50	3	22	3	3	N/U	3	N/U
21	A4J4-2	30	4	23	4	4	N/U	4	N/U
23	A4J4-3	31	5	24	5	5	N/U	5	N/U
25	A4J4-4	32	6	25	6	6	N/U	6	N/U
27	A4J4-5	33	7	26	7	7	N/U	7	N/U
28	A4J4-6	34	8	27	8	8	N/U	8	N/U
31	A4J4-7	35	9	28	9	9	N/U	9	N/U
36	A4J4-8	36	10	29	10	10	N/U	10	N/U
36	N/U	37	11	30	11	11	N/U	11	N/U
36	N/U	38	12	31	12	12	N/U	12	N/U
36	N/U	39	13	32	13	13	N/U	13	N/U
36	N/U	40	14	33	14	14	N/U	14	N/U
36	N/U	41	15	34	15	15	N/U	15	N/U

LAMP DRIVER A5

J4	TO	J1	TO	J3	TO
51	A2J3-3	41	1	10	1
18	A2J3-2	42	2	95	2
84	A3J3-16	43	3	81	3
74	A4J1-19	44	4	14	4
71	A4J1-18	45	5	5	5
23	A4J1-17	46	6	N/U	6
63	A4J1-16	47	7	N/U	7
8	KEY	48	8	N/U	8
9	N/U	49	9	N/U	9
10	N/U	50	10	N/U	10
58	A2J3-4	51	11	20	11
12	SPARE GND	52	12	21	12
75	A4J1-11	53	13	35	13
32	A4J1-15	54	14	84	14
13	A4J1-14	55	15	53	15
45	A4J1-13	56	16	25	16
48	A4J1-12	57	17	13	17
		58	18	56	18
		59	19	67	19
		60	20	80	20
		61	21	64	21
		62	22	23	22
		63	23	98	23
		64	24	72	24
		65	25	36	25
		66	26	38	26
		67	27	40	27
		68	28	28	28

TEST CONNECTOR
1 D7
2 D6
3 D5
4 D4
5 D3
6 D2
7 D1
8 D0
9 A13
10 A12
11 A11
12 A10
13 A9
14 A8
15 A7
16 A6
17 A5
18 A4
19 A3
20 A2
21 A1
22 A0
23 R/W
24 HLT
25 RES
26 VMA
27 02
28 EX
29 KEY
30 +5VDC
31 GND
32 A4J1-18

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

Bally MANUFACTURING CORP.
3140 BELMONT AVENUE
CHICAGO, ILLINOIS

DATE: 10/1/72
BY: [Signature]
CHECKED: [Signature]
APPROVED: [Signature]

WIRING DIAGRAM BACKBOX

DATE: 10/1/72
BY: [Signature]
CHECKED: [Signature]
APPROVED: [Signature]

DATE: 10/1/72
BY: [Signature]
CHECKED: [Signature]
APPROVED: [Signature]

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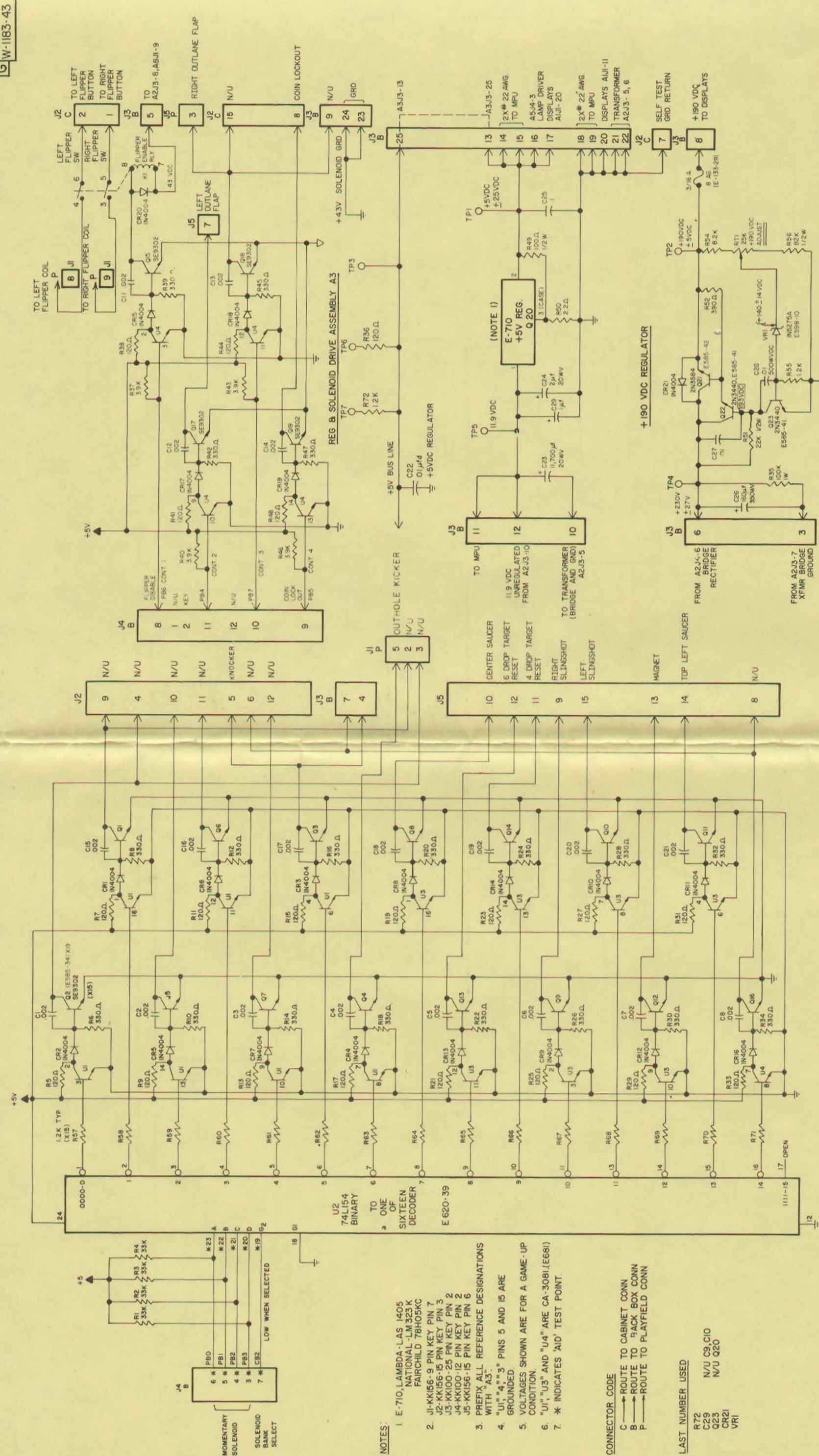
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- NOTES:
1. E-710, LAMBDA-LAS 1405
NATIONAL -LM323KC
FAIRCHILD 78H05KC
 2. J1-KK156-5 PIN KEY PIN 7
J2-KK156-15 PIN KEY PIN 3
J3-KK100-25 PIN KEY PIN 2
J4-KK100-12 PIN KEY PIN 2
J5-KK156-15 PIN KEY PIN 6
 3. PREFIX ALL REFERENCE DESIGNATIONS
WITH "A3."
 4. "U1" "A" "3" PINS 5 AND 15 ARE
GROUNDED.
 5. VOLTAGES SHOWN ARE FOR A GAME-UP
CONDITION.
 6. "U1" "U3" AND "U4" ARE CA-3081.(E661)
 7. * INDICATES 'AID' TEST POINT.

CONNECTOR CODE

C	→	ROUTE TO CABINET CONN
B	→	ROUTE TO BACK BOX CONN
P	→	ROUTE TO PLAYFIELD CONN

LAST NUMBER USED

R72	N/U C9,C10
C29	N/U C20
C23	

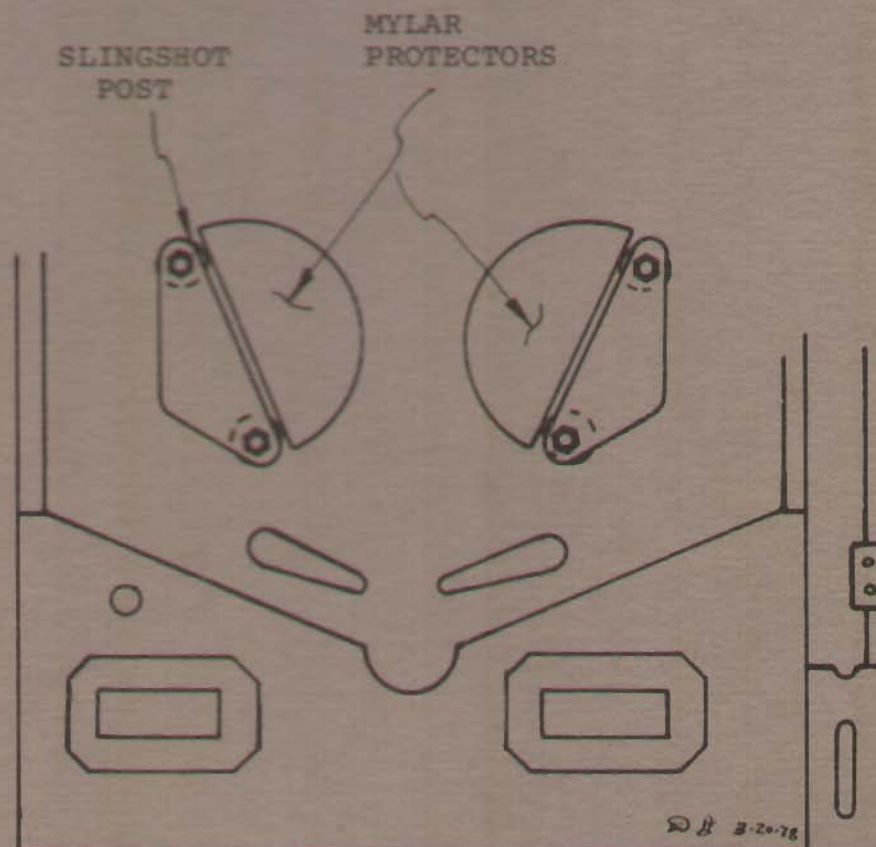
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PLAYFIELD MYLAR PROTECTORS

FO-589

ENCLOSED ARE TWO MYLAR PROTECTORS WHICH MAY BE ATTACHED TO THE PLAYFIELD IN FRONT OF THE SLINGSHOT KICKERS AS SHOWN IN SKETCH. THESE WILL HELP TO PRESERVE PAINT FINISH IN FRONT OF SLINGSHOTS.

TO APPLY, SIMPLY REMOVE PAPER BACKING AND PLACE MYLAR WITH FLAT EDGE TOUCHING THE TWO SLINGSHOT POSTS.



WARNING: THIS EQUIPMENT GENERATES, USES, AND CAN RADIATE RADIO FREQUENCY ENERGY AND IF NOT INSTALLED AND USED IN ACCORDANCE WITH THE INSTRUCTIONS MANUAL, MAY CAUSE INTERFERENCE TO RADIO COMMUNICATIONS. AS TEMPORARILY PERMITTED BY REGULATION IT HAS NOT BEEN TESTED FOR COMPLIANCE TO SUBPART J OF PART 15 OF FCC RULES, WHICH ARE DESIGNED TO PROVIDE REASONABLE PROTECTION AGAINST SUCH INTERFERENCE. OPERATION OF THIS EQUIPMENT IN A RESIDENTIAL AREA IS LIKELY TO CAUSE INTERFERENCE IN WHICH CASE THE USER AT HIS OWN EXPENSE WILL BE REQUIRED TO TAKE WHATEVER MEASURES MAY BE REQUIRED TO CORRECT THE INTERFERENCE.