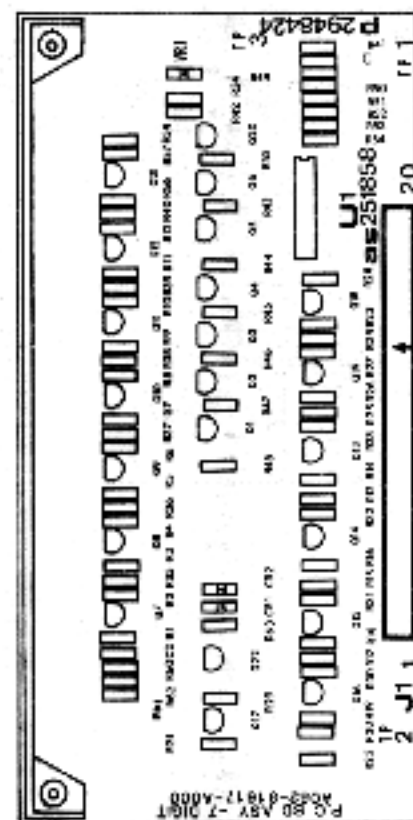


DESIGNATION LIST

DESIGNATION NO.	DESCRIPTION	DESIGNATION NO.	DESCRIPTION
C1	.01 MF 25V	CR1, CR2	1N4148
C2	.01 MF 500V	VR1	1N3045A/110V ZENER
R1	100K OHM 1/4W 5%	Q1-Q6	NPS-A42
R2	2.2K OHM 1/4W 5%	Q7-Q12	2N5401
R3	100K OHM 1/4W 5%	Q13-Q20	NPS-A42
R4	2.2K OHM 1/4W 5%	Q21	2N5401
R5	100K OHM 1/4W 5%	Q22	NPS-A42
R6	2.2K OHM 1/4W 5%	U1	MC14543
R7	100K OHM 1/4W 5%	DS1	DISPLAY ASSY
R8	2.2K OHM 1/4W 5%	J1	30 PIN WAFER KK-156 (2)
R9	100K OHM 1/4W 5%	TP1-TP3	TEST LOOPS
R10	2.2K OHM 1/4W 5%		7 DIGIT DISPLAY PCB
R11	100K OHM 1/4W 5%		BUMPER
R12	2.2K OHM 1/4W 5%		
R13	1.5K OHM 1/4W 5%		
R14	300K OHM 1/4W 5%		
R15	1.5K OHM 1/4W 5%		
R16	300K OHM 1/4W 5%		
R17	1.5K OHM 1/4W 5%		
R18	300K OHM 1/4W 5%		
R19	1.5K OHM 1/4W 5%		
R20	300K OHM 1/4W 5%		
R21	1.5K OHM 1/4W 5%		
R22	300K OHM 1/4W 5%		
R23	1.5K OHM 1/4W 5%		
R24	300K OHM 1/4W 5%		
R25	1.5K OHM 1/4W 5%		
R26	300K OHM 1/4W 5%		
R27-R33	1.2K OHM 1/4W 5%		
R34	100K OHM 1/4W 5%		
R35-R40	300K OHM 1/4W 5%		
R41	39K OHM 1/4W 5%		
R42	240K OHM 1/4W 5%		
R43-R48	9.1K OHM 1/4W 5%		
R49-R54	20K OHM 1/4W 5%		
R55	9.1K OHM 1/4W 5%		
R56	100K OHM 1/4W 5%		
R57	2.2K OHM 1/4W 5%		
R58	300K OHM 1/4W 5%		
R59	NOT USED		
R60, R61	1.5K OHM 1/4W 5%		
R62	300K OHM 1/4W 5%		
R63	150K OHM 1/4W 5%		



KEY - P-N 14

CROSS REFERENCE LIST

DESCRIPTION	QTY	DESIGNATION NO.	BALLY'S PART NOS.	MIDWAY'S PART NOS.
.01 MF 25V	1	C1	E-586-85	0360-00800-0005
.01 MF 500V	1	C2	E-586-65	0360-00800-0013
1.2K 1/4W 5%	7	R27-R33	E-105-222	100E-00005-0063
1.5K 1/4W 5%	9	R13, R15, R17, R19, R21, R23, R25, R60, R61	E-105-229	100E-00005-0065
2.2K 1/4W 5%	7	R2, R4, R6, R8, R10, R12, R57	E-105-287	100E-00005-0069
9.1K 1/4W 5%	7	R43-R48, R55	E-105-228	100E-00005-0087
20K 1/4W 5%	6	R49-R54	E-105-242	100E-00005-0095
39K 1/4W 5%	1	R41	E-105-231	100E-00005-0102
100K 1/4W 5%	8	R1, R3, R5, R7, R9, R11, R34, R56	E-105-331	100E-00001-0011
150K 1/4W 5%	1	R63	E-105-248	100E-00001-0120
240K 1/4W 5%	1	R42	E-105-271	100E-00001-0125
300K 1/4W 5%	15	R14, R16, R18, R20, R22, R24, R26, R35-R40, R58, R62	E-105-227	100E-00001-0127
1N3045A/110V ZENER	1	VR1	E-598-7	103E-00001-0028
1N4148	2	CR1, CR2	E-587-14	103E-00002-0005
2N5401	7	Q7-Q12, Q21	E-585-32	0360-00802-0006
NPS-A42	15	Q1-Q6, Q13-Q20, Q22	E-585-33	0360-00802-0007
MC14543	1	U1	E-620-38	0360-00803-0014
7 DIGIT DISPLAY	1	DS1	E-680-7	0360-00804-0022
DS1 MTG. HDN TACK-SCREW REPLACEMENT	2			0095-00900-0000
DISPLAY MTG. TOP	1		P-2399	0017-00042-0155
DISPLAY MTG. BOTTOM	1		P-2399-1	0017-00042-0156
PRESSURE SENSITIVE TAPE				0017-00081-0095
BUMPER	1		R-206-9	0017-00041-0598
10 PIN WAFER KK156	2	J1	E-736-10	0151-00031-10X8
TEST LOOPS	3	TP1-TP3	P-5399	0017-00007-0151
7 DIGIT DISPLAY PCB	1		P-2948-424	A080-91617-A000

PROJECT ENG: D. MACDONALD		USED ON		REVISIONS	
DO NOT SCALE	DATE	SCALE	NO. REQ'D	PER	
REV. 1	12/09/83	FULL			
SEVEN DIGIT DISPLAY ASSY DWG. A082-91617-A000			PART NO. M051-00114-A056		

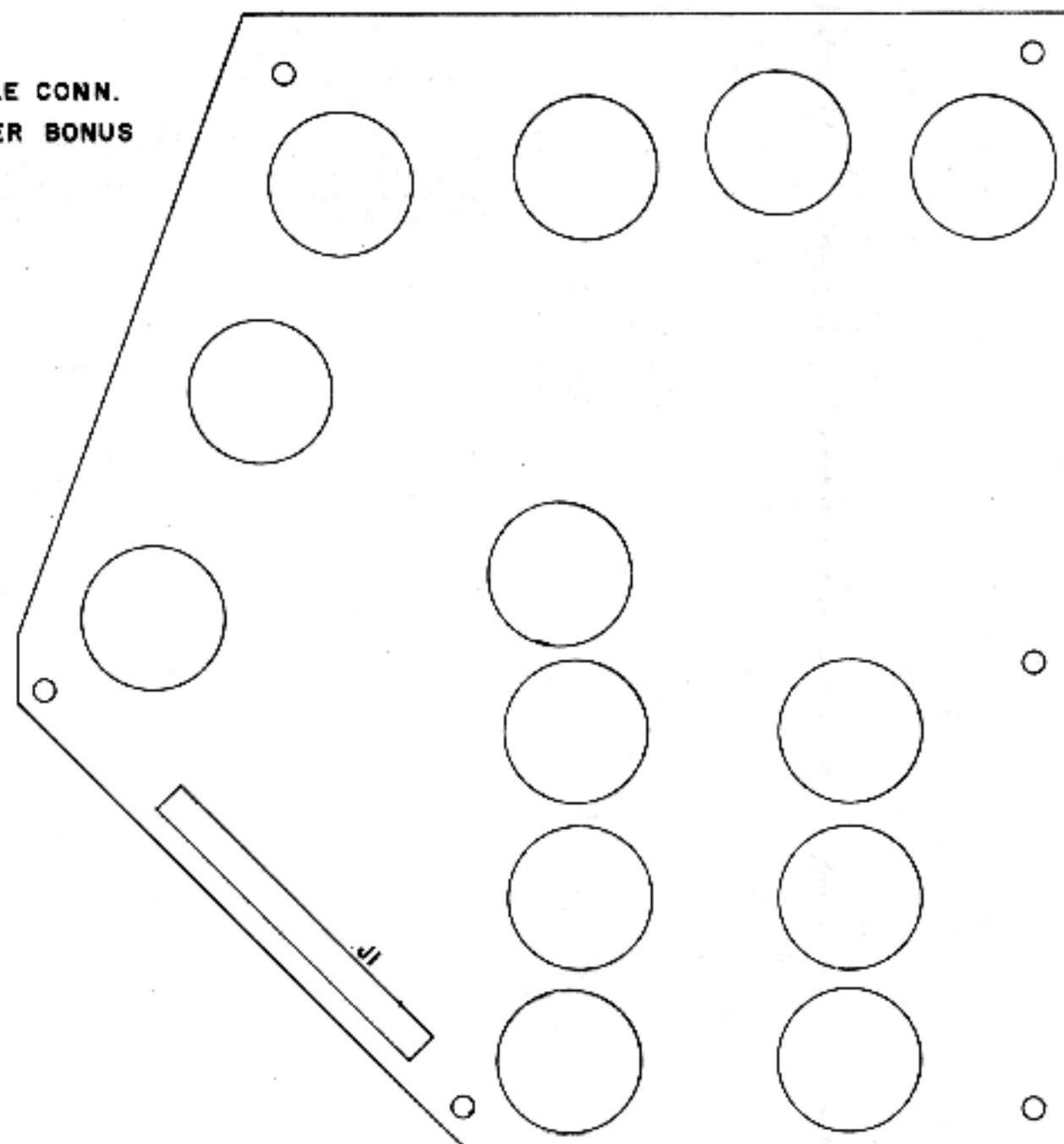
GROSS REFERENCE LIST

DESCRIPTION	QTY	DESIGNATION NO.	PART NOS.	DESCRIPTION	QTY	DESIGNATION NO.	PART NOS.
27 PF, 5K	2	C5, C6	0360-00800-0052	PHAN PCT 0-K 1/2 W	1	Y81	0360-00804-0001
47 PF	1	C14	0360-00800-0027				
100 PF	1	C29	0360-00800-0066	1M40DL	3	01-05	103E-00002-0006
150 PF	1	C15	0360-00800-0053	1M40DA	4	04, 05, 07, 08	103E-00002-0005
220 PF	1	C16	0360-00800-0054	Y8132	1	06	0360-00801-0001
320 PF	1	C26	0360-00800-0055	1M058B ZENER	1	09	103E-00001-0002
320 PF	2	C34-C38	0360-00800-0064				
3200 PF	1	C11	0360-00800-0056				
.01 UF	5	C8, C9, C7-C9, C18, C19, C25, C28	0360-00800-0005	2H390A WPM	2	03, 05	103E-00001-0005
.25 UF	1	C33		2M4403 PNP	3	02, 04, 06	103E-00002-0004
0.1 UF	6	C12, C13, C20, C21, C27, C32, C41, C42	0360-00800-0036 0360-00800-0038	2H3305 DARL NPN	2	01, 07	103E-00001-0012
.22 UF	2	C17, C27, C32		74LS10	1	05	0360-00803-0046
.33 UF	1	C31	0360-00800-0037	74LS173	1	02	0360-00803-0059
4.7 UF W 25V, THT	5	C10, C11, C22, C39, C40	0360-00800-0039 0360-00800-0008	MC 6803, MPU	1	01	0360-00803-0046
4.7 UF W 25V, THT	1	C1	0360-00800-0048	2M425C-E, EAC	1	07	0360-00803-0002
47 UF 2 15V	1	C4	0360-00800-0042	LM 3900, OP AMP	1	08	0360-00803-0004
470 UF 2 5V	1	C29	0360-00800-0021	MC 7805, 5V REG.	1	09	0360-00803-0050
1000 UF 2 15V	1	C30	0360-00800-0044				
4700 UF 2 25V	1	C24	0360-00800-0023	INDUCTOR 10 OH	3	L3, L2, L5	0360-00804-0031
1 OHM	1	R39	100E-00005-0012	28 PIN IC SOCKET	2	003, 004	0360-00804-0012
2.2 OHM	1	R38	100E-00005-0005	40 PIN IC SOCKET	1	001	0360-00804-0018
68 OHM	1	R25	100E-00005-0003	.045 SW. PIN	15	01	0017-00035-0480
82 OHM	1	R17	100E-00005-0029	.045 SW. PIN	2	02	0017-00035-0480
100 OHM	1	R10	100E-00005-0031	FAST POINTS	5	TP1-TP5	0017-00007-0121
120 OHM	1	R12	100E-00005-0033				
120 OHM	1	R28	100E-00005-0035	LED R45254	1	LED 1	0360-00804-0015
180 OHM	1	R24	100E-00005-0039				
220 OHM	1	R41	100E-00005-0041	HCAT5AK, 5030R-11	1	010 UR	0360-00804-0011
420 OHM	1	R40	100E-00005-0030	HCAT5AK, 5120R	1	010 UR	0360-00804-0011
470 OHM	5	R42-R46	100E-00005-0051				
560 OHM	1	R1	100E-00005-0054	WGT 6 R 32	2	010 UR, UR	0017-00102-0005
910 OHM	1	R3	100E-00005-0059	SCREW 6 R 32	2	010 UR, UR	0017-00101-0339
1K OHM	1	R17	100E-00005-0061	INSULATOR, THERMAL	2	010 UR, UR	0017-00042-0311
2.7K OHM	2	R15, R16, R22	100E-00005-0071				
3.3K OHM	2	R18, R19	100E-00005-0074	SWITCH	1	SW1	0017-00032-0028
5.6K OHM	1	R4	100E-00005-0082				
7.5K OHM	1	R13	100E-00005-0085	CRYSTAL, 3.579 MHZ	1	001	0360-00804-0019
9.1K OHM	1	R12	100E-00005-0087				
12K OHM	2	R2, R3, R20	100E-00005-0088	P.T.B.	1		0002-01603-0000
16K OHM	1	R21	100E-00005-0165				
24K OHM	1	R23	100E-00005-0097				
39K OHM	1	R14	100E-00005-0102				
47K OHM	2	R2, R3, R27	100E-00005-0104				
62K OHM	1	R5	100E-00005-0107				
82K OHM	1	R7	100E-00005-0112				
100K OHM	2	R25, R26, R31	100E-00005-0115				
120K OHM	1	R29	100E-00005-0118				
150K	1	R30	100E-00005-0119				
180K	1	R36	100E-00005-0122				
200K	1	R32	100E-00005-0123				
390K	2	R37, R37	100E-00005-0130				
470K	1	R34	100E-00005-0132				

PROJECT 888		D. MACDONALD		USED ON		B&B / MIDWAY MFG. CO.	
CONTRACT NO. 888-0001		ITEM FROM		FULL		NO. 888-1 PER	
ITEM TOLERANCE 1/16" DIA. 1/16" DIA.		QTY.		CHEAP SQUEAK PC BD. ASST.		PART NO	
QTY. 100		DATE		A080-91805-8000		M761 - 00114 - 8044	
DATE 8-31-83		TIME					

DESIGNATION LIST

<u>DESIGNATION</u>	<u>DESCRIPTION</u>
J1	21 PIN RT. ANGLE CONN.
PCB	SPY HUNTER UPPER BONUS LITE BD.



CROSS REFERENCE LIST

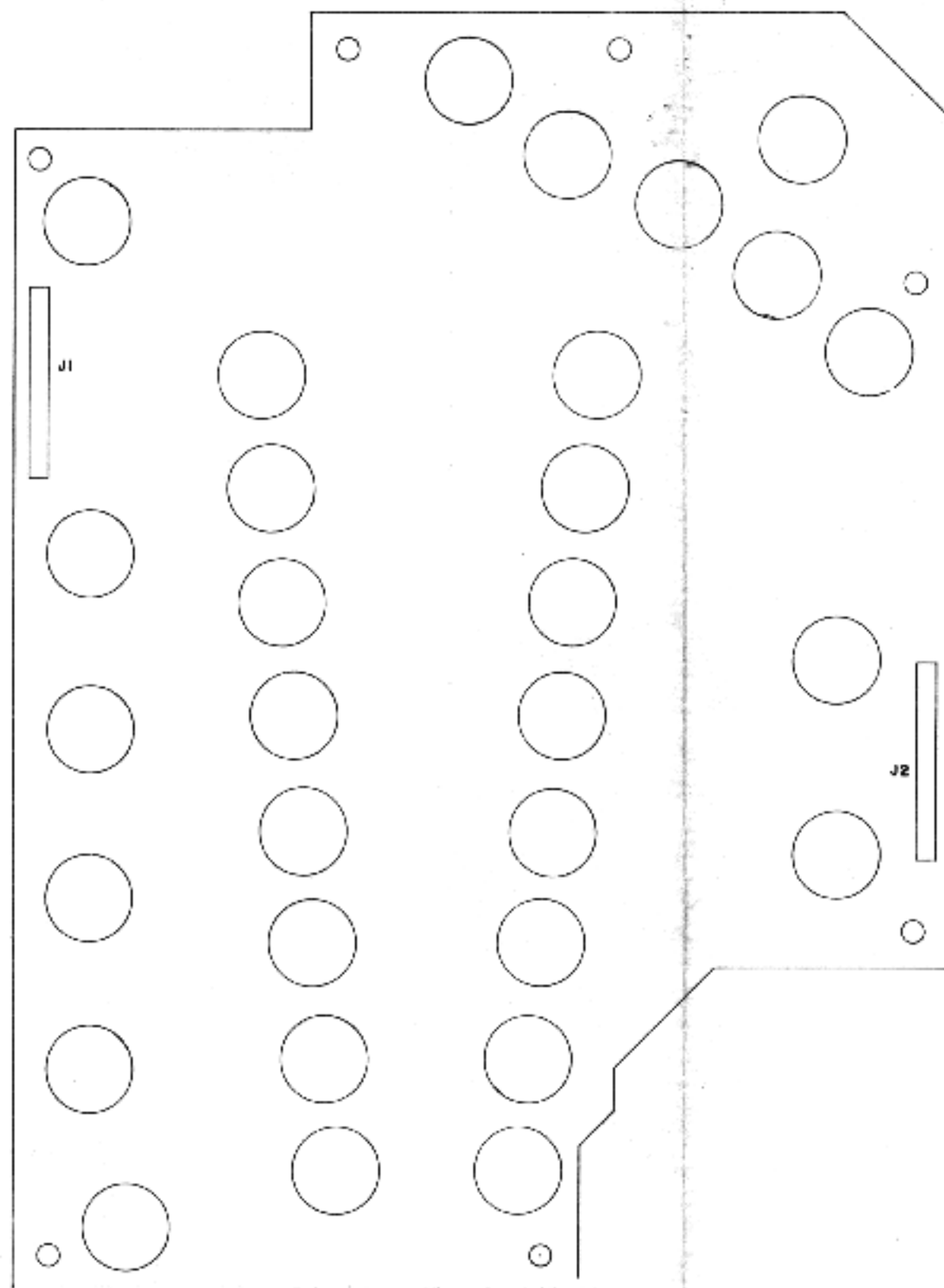
<u>DESCRIPTION</u>	<u>QTY</u>	<u>DESIGNATION</u>	<u>PART NO.</u>
21 PIN RT. ANGLE CONN.	1	J1	3CCC-16468-AV18
SPY HUNTER UPPER BONUS LITE BD.	1	-	A080-91753-BA17

REVISIONS

PROJECT ENG: A. AARSTAD			USED ON SPY HUNTER PIN		Bally / MIDWAY MFG. CO. FRANKLIN PK. ILL.
DO NOT SCALE DWG.			NO. REQ'D		
DIM. TOLERANCES UNLESS SPECIFIED		DRW. BAK	MAT'L.	SPY HUNTER UPPER BONUS LITE BD. ASSY DWG. (A080-91753-BA17)	
CONCENTRICITY TYP. .005		CRD.	FINISH		
FRACTIONAL .125		DATE 6/11/84			
DECIMAL .005					PART NO.
HOLE DIA. ±.002 - .000					M051 - 00A17 - 8008

DESIGNATION LIST

DESIGNATION	DESCRIPTION
J1	19PIN RT. ANGLE CONN.
J2	19PIN RT. ANGLE CONN.
-	SPY HUNTER LOWER FEATURE LITE PCB



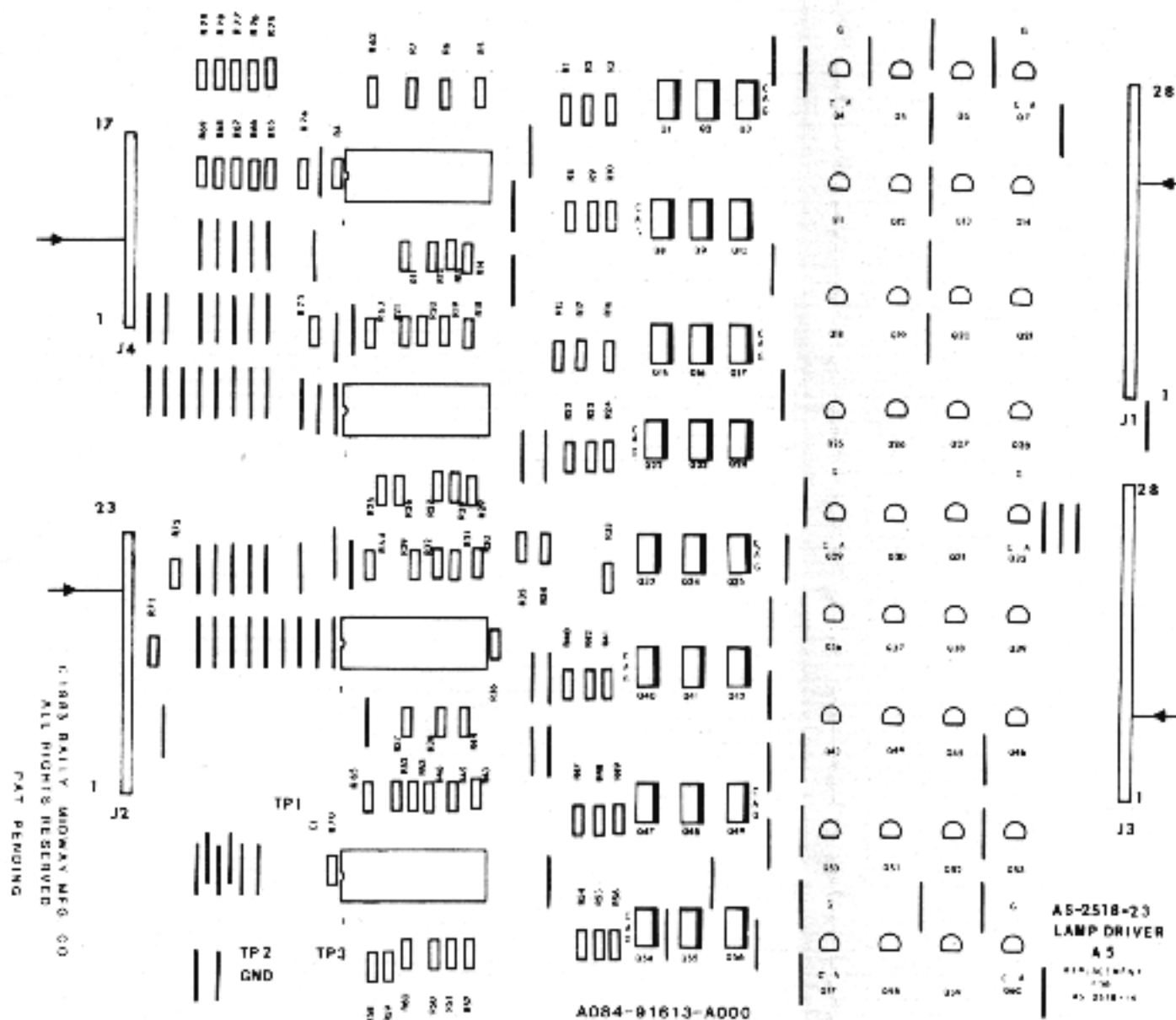
CROSS REFERENCE LIST

DESCRIPTION	QTY	DESIGNATION	PART NUMBER
19PIN RT. ANGLE CONN.	1	J1	3CCC-16468-AW18
19PIN RT. ANGLE CONN.	1	J2	3CCC-16468-AZ18
SPY HUNTER LOWER FEATURE LITE BD.	1	-	A080-91754-CA17

PROJECT ENG. A. AARSTAD		USED ON SPY HUNTER		REVISIONS	
DO NOT SCALE DWG		DATE 7/17/84	SCALE	PART NO.	
DIM TOLERANCES UNLESS OTHERWISE SPECIFIED		DATE 7/17/84	NO REQ'D PER	MIDWAY MFG. CO.	
DESIGNER BAK		DATE 7/17/84	NO REQ'D PER	FRANKLIN, PA. U.S.A.	
CHECKED BY		DATE 7/17/84	NO REQ'D PER	PART NO.	
DRAWN BY		DATE 7/17/84	NO REQ'D PER	M051-00A17 - C010	
DATE 7/17/84		DATE 7/17/84	NO REQ'D PER	M051-00A17 - C010	

DESIGNATION LIST

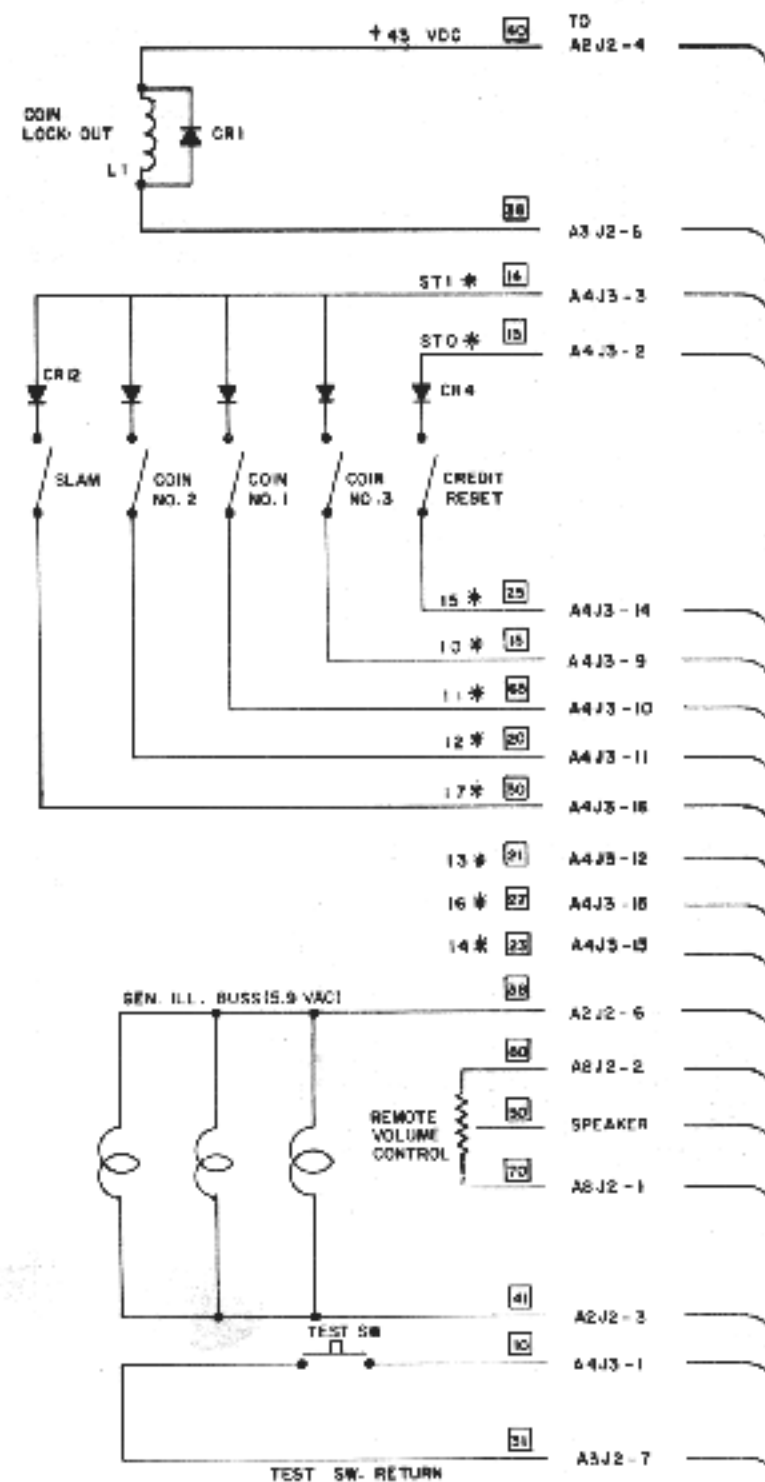
DESIGNATION NO.	DESCRIPTION
C1	.01 MF 500V
R1-R60	2K 5% 1/4W
R61-R69	2.2M 5% 1/4W
R70	2K 5% 1/4W
R71-R79	20K 5% 1/4W
Q1-Q3	MCR106-1
Q4-Q7	2N5060
Q8-Q10	MCR106-1
Q11-Q14	2N5060
Q15-Q17	MCR106-1
Q18-Q21	2N5060
Q22-Q24	MCR106-1
Q25-Q32	2N5060
Q33-Q35	MCR106-1
Q36-Q39	2N5060
Q40-Q42	MCR106-1
Q43-Q46	2N5060
Q47-Q49	MCR106-1
Q50-Q53	2N5060
Q54-Q56	MCR106-1
Q57-Q60	2N5060
U1-U4	MC14514B
J1	28 PIN WAFER CONN.
J2	23 PIN WAFER CONN.
J3	28 PIN WAFER CONN.
J4	17 PIN WAFER CONN.
TP1-TP3	TEST CLIP LABEL JUMPER, 22 AWG P.C. BOARD



CROSS REFERENCE LIST

DESCRIPTION	QTY	DESIGNATION NO.	BALLY'S PART NOS.	MIDWAY'S PART NOS.
.01 MF 500V	1	C1	E-00586-0065	0360-00800-0013
2.2M 5% 1/4W	9	R61-R69	E-00105-0256	0062-33983-1XXX
2K 5% 1/4W	61	R1-R60, R70	E-00105-0237	0062-19383-1XXX
20K 5% 1/4W	9	R71-R79	E-00105-0242	0062-24183-1XXX
MCR106-1	24	Q1-Q3, Q8-Q10, Q15-Q17, Q22-Q24, Q33-Q35, Q40-Q42, Q47-Q49, Q54-Q56	E-00585-0029	0360-00802-0009
2N5060	36	Q4-Q7, Q11-Q14, Q18-Q21, Q25-Q32, Q36-Q39, Q43-Q46, Q50-Q53, Q57-Q60	E-00585-0014	0360-00802-0005
MC14514B	4	U1-U4	E-00620-0037	0360-00803-0013
17 PIN WAFER CONN.	1	J4	E-00715-0013	0151-00030-17AB
23 PIN WAFER CONN.	1	J2	E-00715-0014	0151-00030-23AB
28 PIN WAFER CONN.	2	J1, J3	E-00715-0004	0151-00030-28AB
TEST CLIP	3	TP1-TP3	P-05399	0017-00007-0131
LABEL	1			0017-00081-0097
JUMPER, 22 AWG	99		N-1777-126	0069-250XX-ABXX
P.C. BOARD	1		P-02948-0301	A080-91613-A000

PROJECT ENG		USED ON		Bally / MIDWAY MFG. CO. FRANKLIN, PA. U.S.A.
DO NOT SCALE		NO REQ'D I PER		
DIM. TOLERANCE (UNLESS OTHERWISE SPECIFIED)		SCALE FULL		LAMP DRIVER ASSY DWG A084-91613-A000
DATE 05/31/83		PART NO. M051 - 00114 - A048		



NOTES: (CAUTION)

1. USE BALLY PART NO. E-7/3 FOR 115-120 VAC.
2. USE BALLY PART NO. E-7/5-1 FOR 220-240 VAC
3. * INDICATES AID TEST POINT.

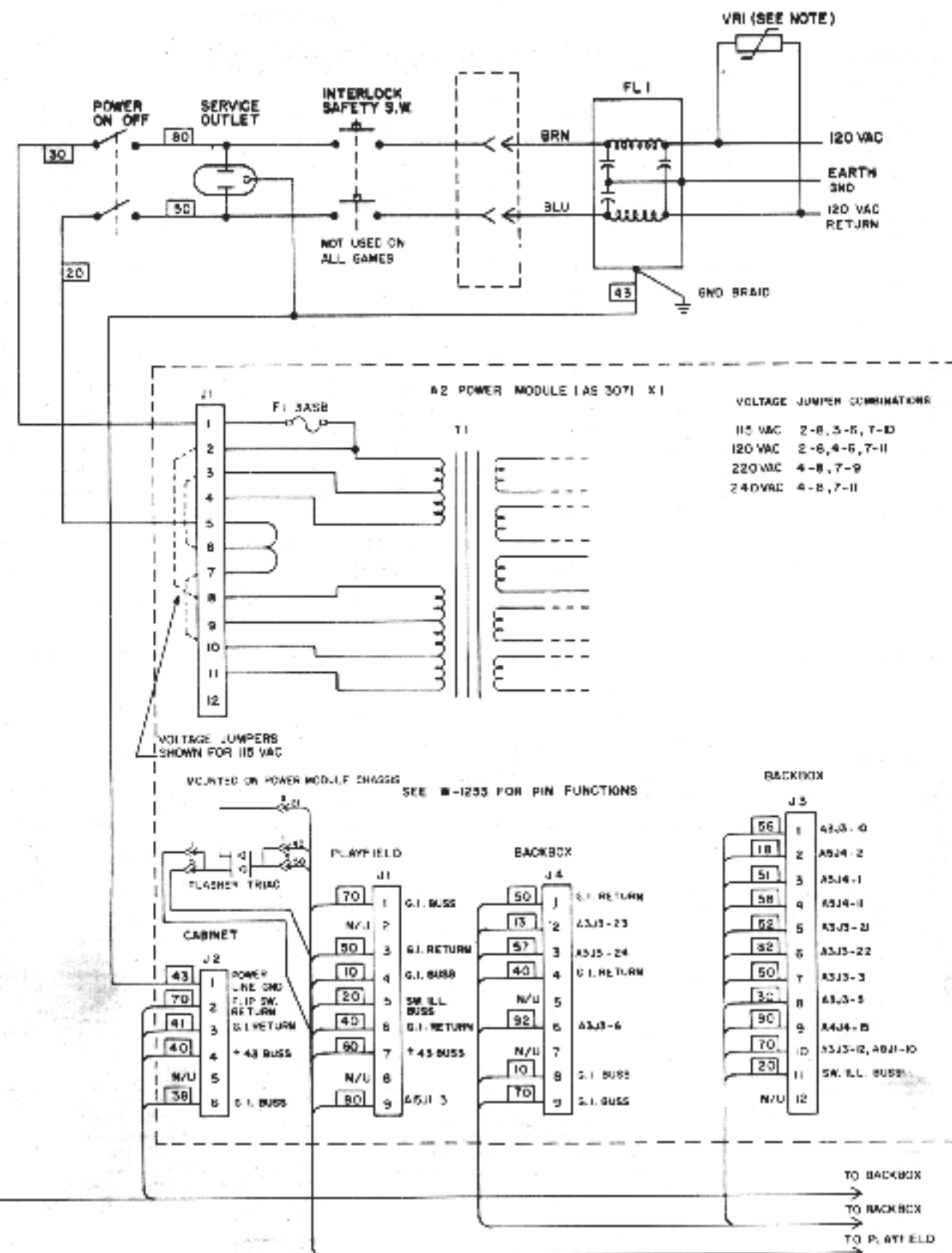
TO	J1 PIN	TO	J1 PIN
A4J3-9	1	A4J3-3	11
A4J3-10	2	A2J2-4	15
A4J3-11	3	A3J2-8	16
A4J3-12	4	A2J2-6	17
A4J3-13	5	A2J2-3	18
A4J3-14	6	A4J3-1	19
A4J3-15	7	A3J2-7	20
A4J3-16	8	SPEAKER	9
A4J3-2	10	A2J2-1	12
DOOR PLUG		A2J2-2	13

A7 CABINET ASS'Y. WIRING

NOTE: CODES ARE IN 4004, (E-587-5)

WIRE COLOR CODE

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

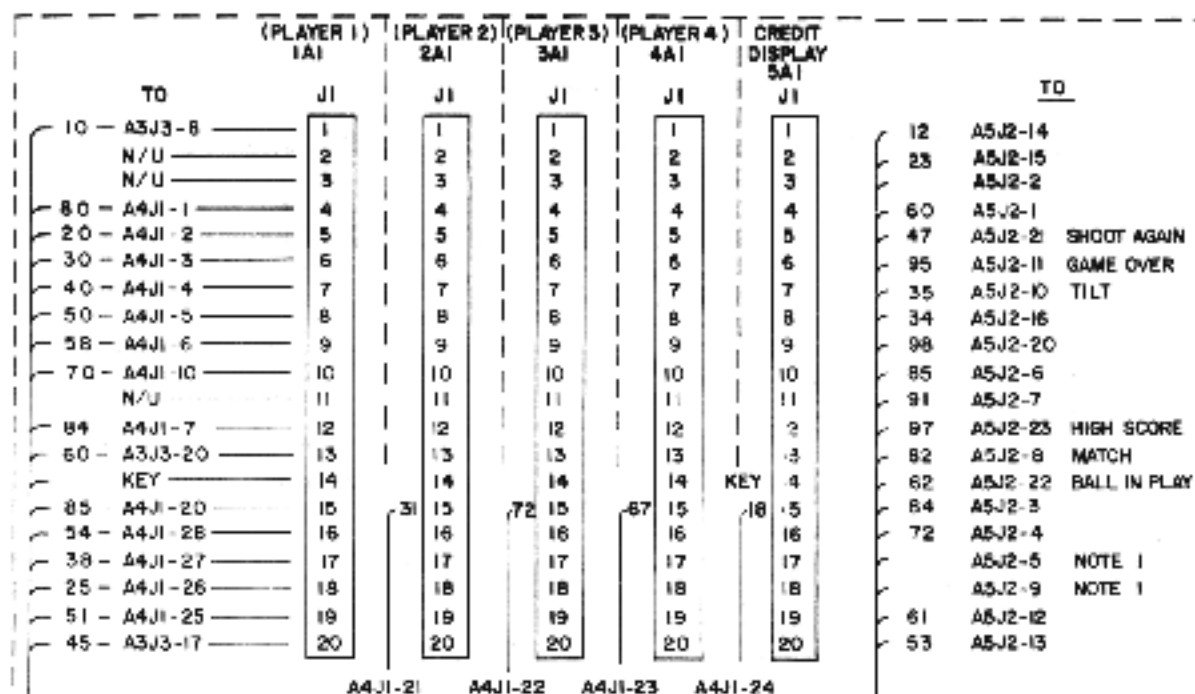


PROJECT NAME		DATE		REVISED	
BY: M. KONOP		DATE: 8/21/89		REVISED: 11	
CHECKED: M. KONOP		DATE: 8/21/89		REVISED: 11	
APPROVED: M. KONOP		DATE: 8/21/89		REVISED: 11	
PART NO.		MOSI-00417		2004	
CABINET WIRING SCHEMATIC					

TABLE A AIJ2

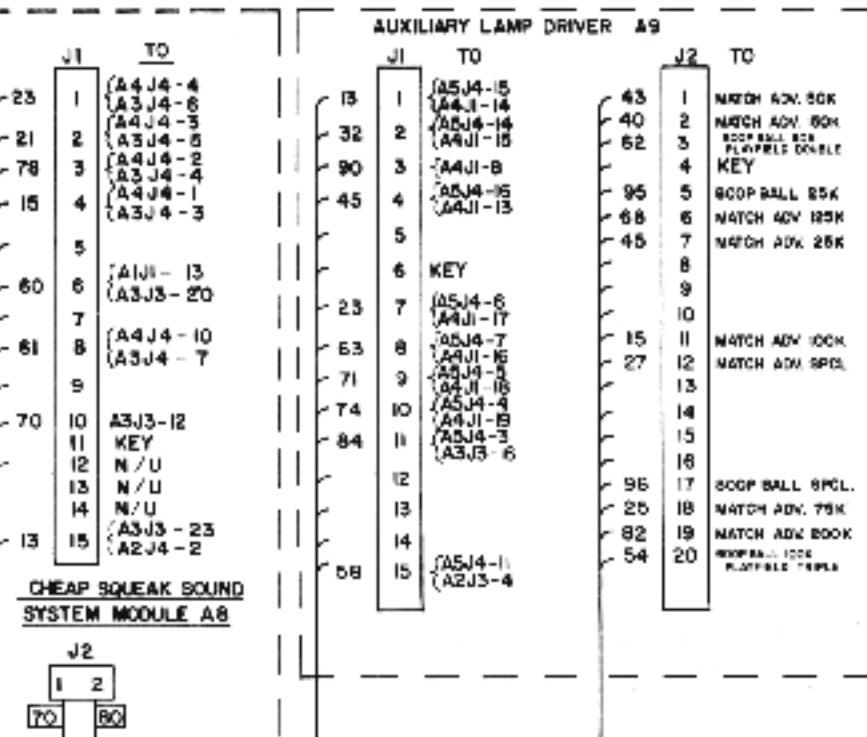
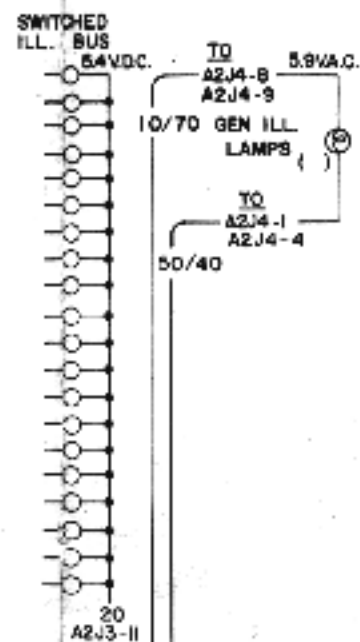
FROM	PIN	WIRE
A2J4-8	1	10
A2J4-1	2	50
A5J2-14	3	12
A5J2-2	4	PINK
A5J2-5	5	23
A5J2-16	6	34
A5J2-10	7	35
A5J2-21	8	47
A5J2-1	9	60
A2J3-11	10	20
A5J2-22	11	62
A5J2-6	12	85
A5J2-7	13	91
A5J2-11	14	95
A5J2-23	15	97
A5J2-20	16	98
A5J2-8	17	82
	18	
	19	
	20	
	21	
	22	
A2J4-4	23	40
A2J4-9	24	70

AI INSERT



INSERT TO BACK CAB.
PLUS

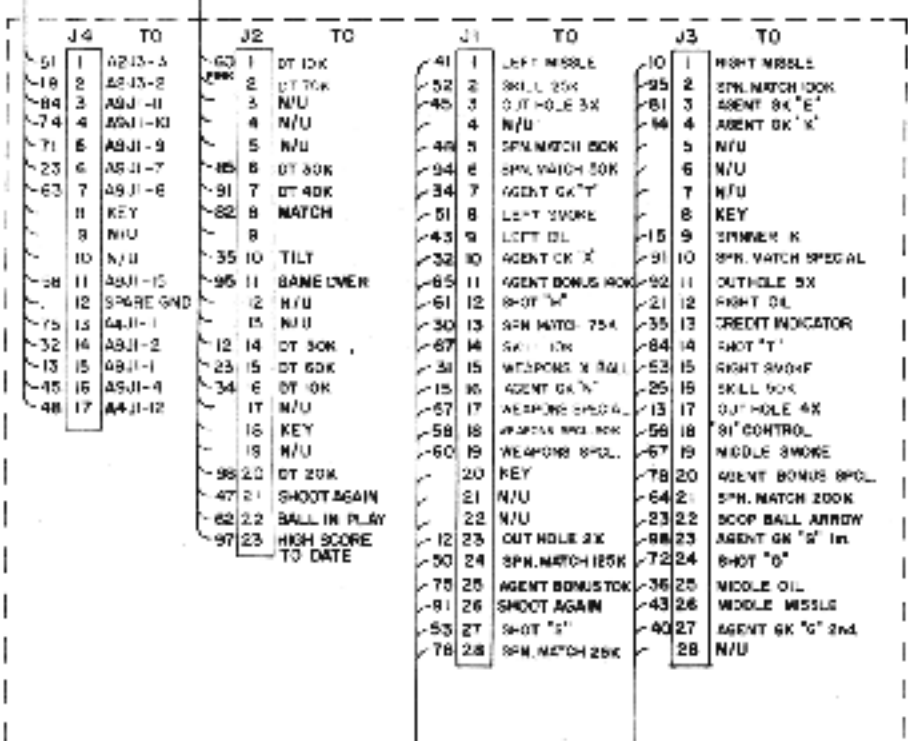
AIJ2
SEE
TABLE A



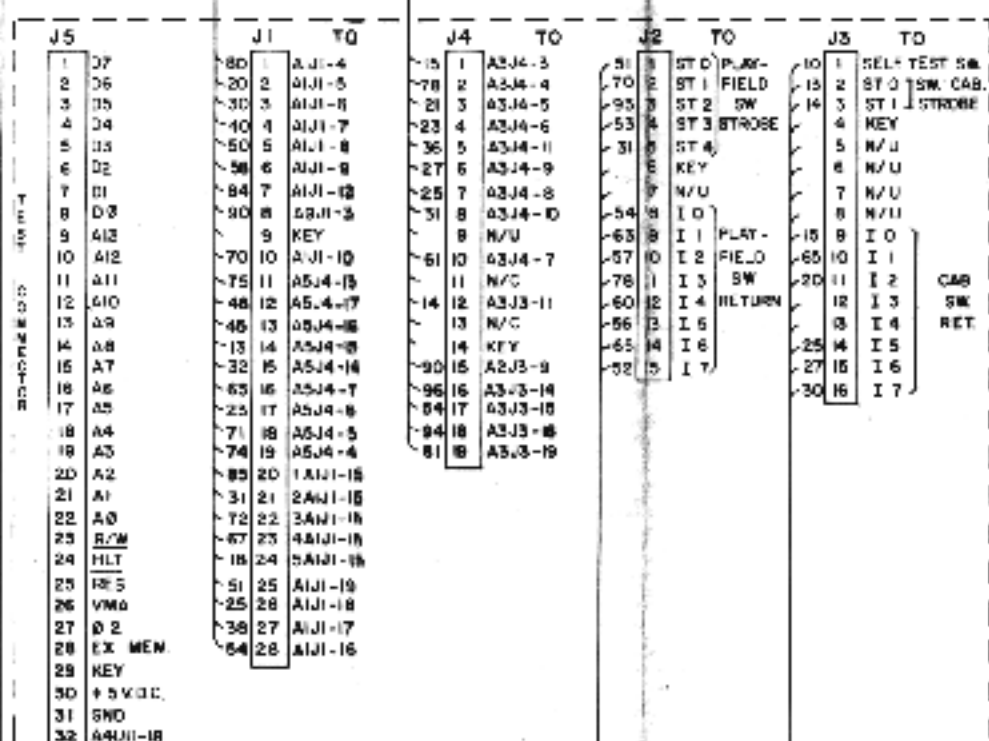
FROM	PIN	WIRE
A5J2-14	1	12
A5J2-2	2	PINK
A5J2-5	3	23
A5J2-16	4	34
A5J2-1	5	60
A5J2-6	6	85
A5J2-7	7	91
A5J2-11	8	95
A5J2-20	9	98
	10	
	11	
	12	
	13	
	14	
	15	
	16	
	17	
	18	
	19	
	20	

PANEL TO BACKBOX

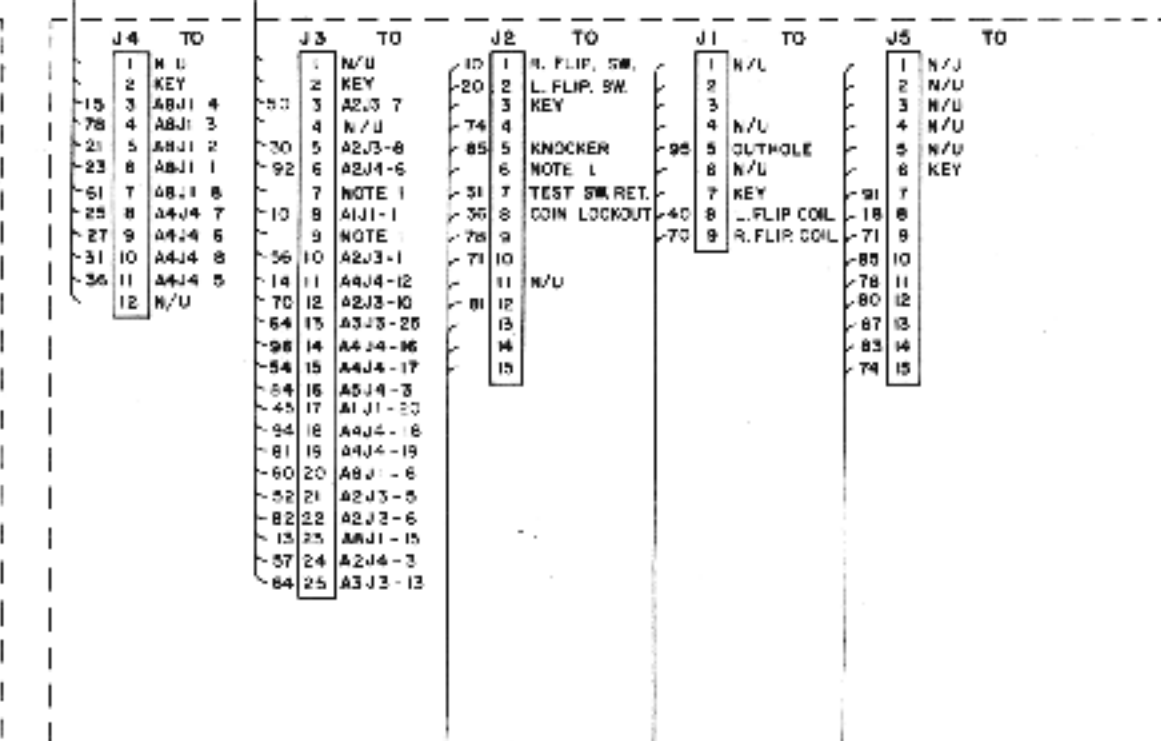
LAMP DRIVER A5



MPU A4



VOLTAGE REGULATOR / SOLENOID DRIVER A3



NOTES:

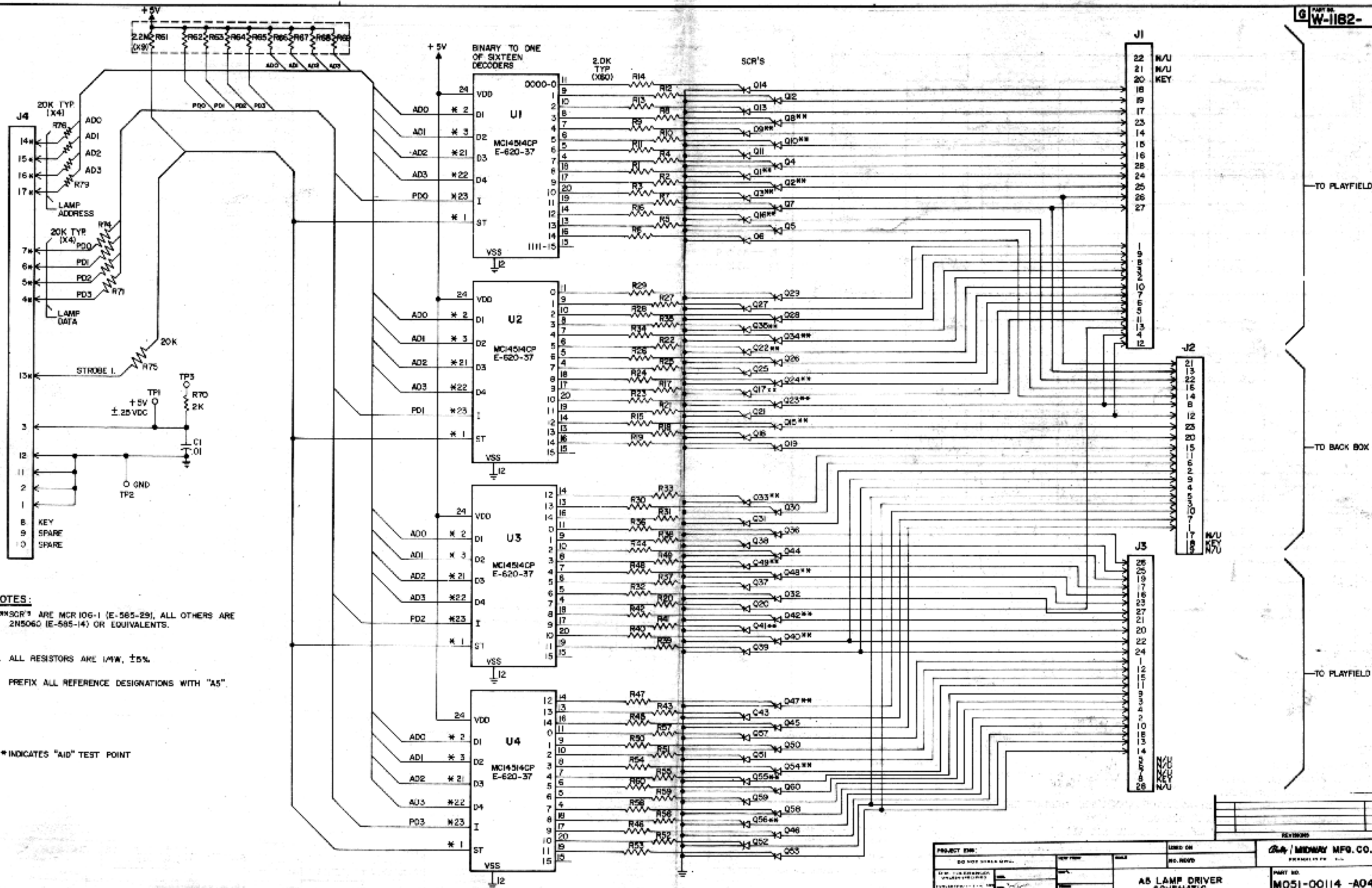
1. THESE PINS ARE RESERVED FOR FUTURE USE.
2. WIRE COLOR ARE SHOWN FOR ALL CONNECTOR PINS, SOME WIRE MAY NOT BE USED IN ALL GAMES.
3. * INDICATES AID TEST POINT.

WIRE COLOR CODE

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

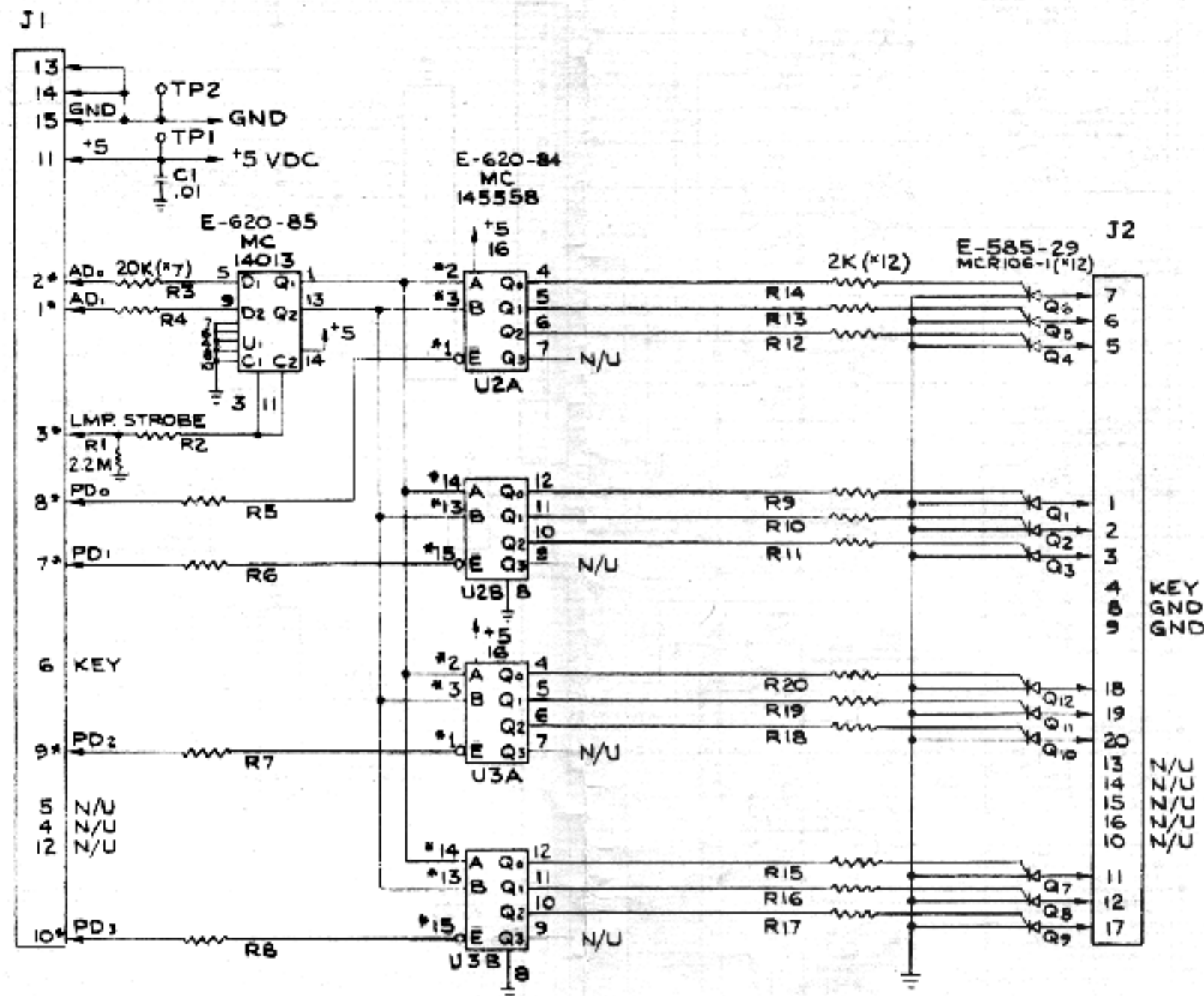
1. FIRST NUMBER = BODY COLOR
 2. SECOND NUMBER = TRACER COLOR
- EXAMPLE:
50 = WHITE
51 = WHITE RED

PROJECT ENG.	DESIGNER	DATE	REVISED BY	DATE
NO. 1000000	NO. 1000000	NO. 1000000	NO. 1000000	NO. 1000000
WIRING DIAGRAM BACK BOX			REV. NO.	
NO. 1000000			NO. 1000000	



- NOTES:**
1. *NSCR'S ARE MCR 106-1 (E-585-29), ALL OTHERS ARE 2N5060 (E-585-14) OR EQUIVALENTS.
 2. ALL RESISTORS ARE 1/4W, $\pm 5\%$.
 3. PREFIX ALL REFERENCE DESIGNATIONS WITH "A5".
 4. * INDICATES "AID" TEST POINT

PROJECT ENG:		DESIGNED BY:		CHECKED BY:	
DO NOT SCALE DRAWING		DATE:		REVISED BY:	
DRAWN BY:		DATE:		REVISED BY:	
CHECKED BY:		DATE:		REVISED BY:	
APPROVED BY:		DATE:		REVISED BY:	
A5 LAMP DRIVER SCHEMATIC				PART NO. M051-00114-A049	



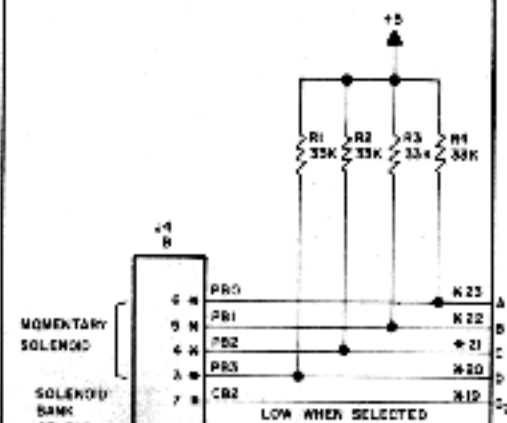
NOTES:

1. * INDICATES "AID" TEST POINT.
2. ALL RESISTORS ARE 1/4 W, ±5%
3. VOLTAGES SHOWN ARE FOR A GAME UP CONDITION.
4. SCR'S ARE MCR-106-1, (E-585-29)
5. PREFIX ALL REFERENCE DESIGNATION WITH "A9"

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

NO.	LET.	CHANGE	DATE	BY

REVISIONS		DATE	Bally MANUFACTURING CORP	
TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED		DATE	2640 BELMONT AVENUE	
FRACTIONS -		DATE	CHICAGO ILLINOIS	
DECIMALS -		DATE	NAME (A9) AUXILIARY LAMP DRIVER BOARD	
EXCEPT HOLE DIA. & ANGLES		DATE	ASSEM NO. USED	
DO NOT SCALE DRAWING		DATE	SCALE	
HARDENING		DATE	MATERIAL	
		DATE	CODE	
		DATE	M051-00114-A051	



NOTES:

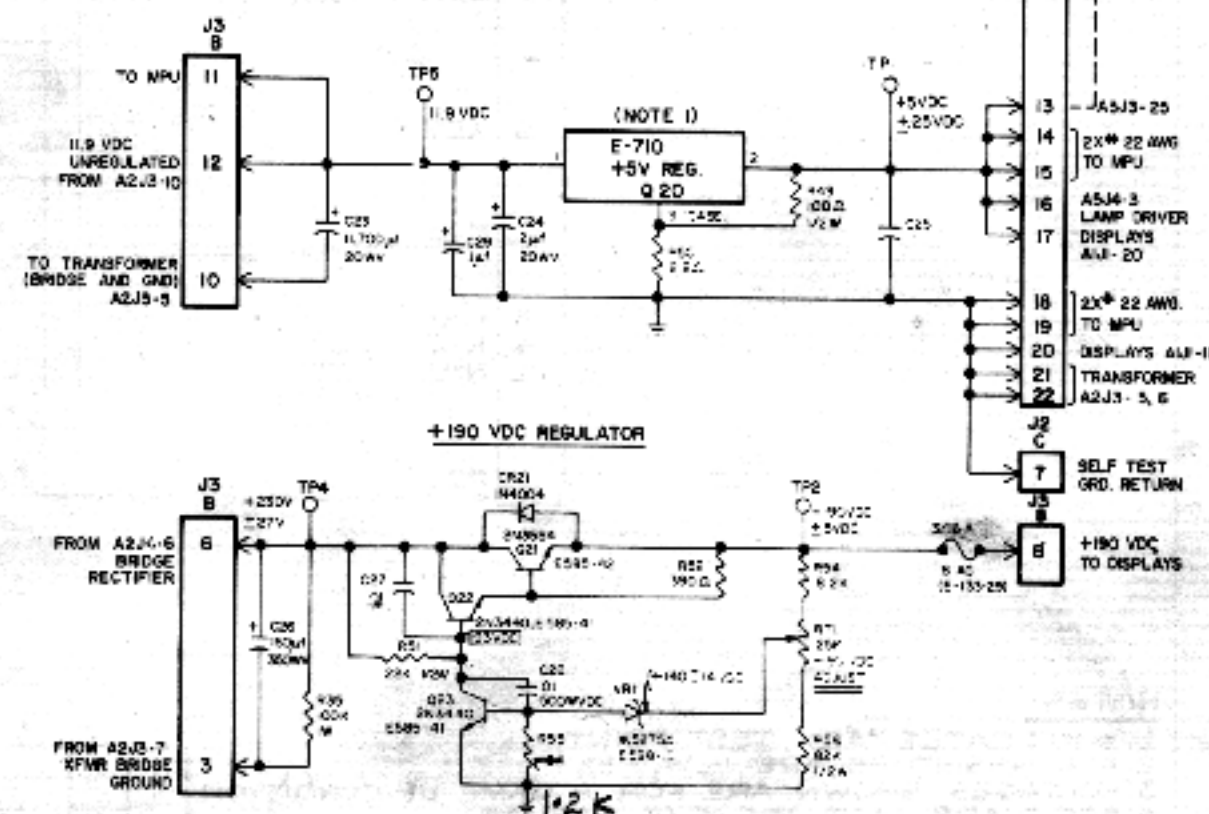
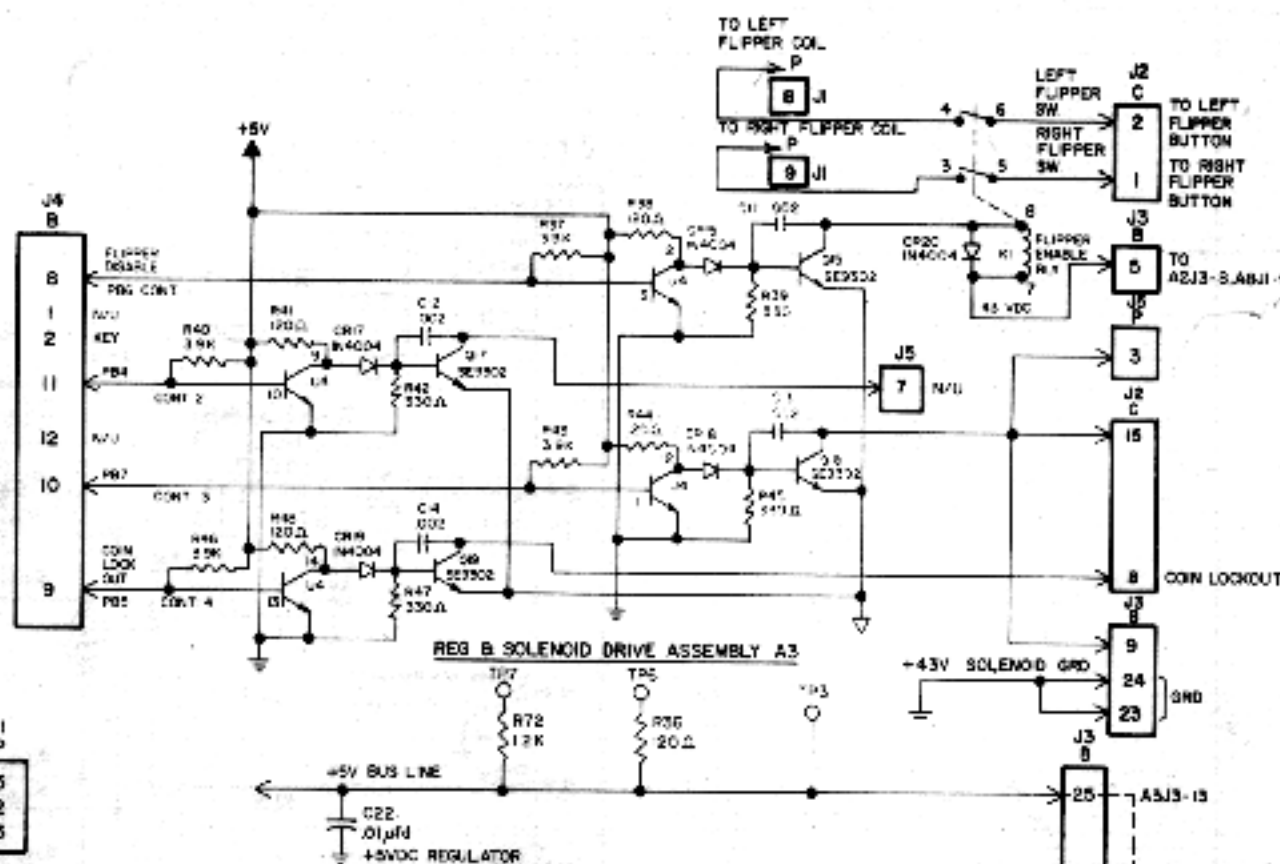
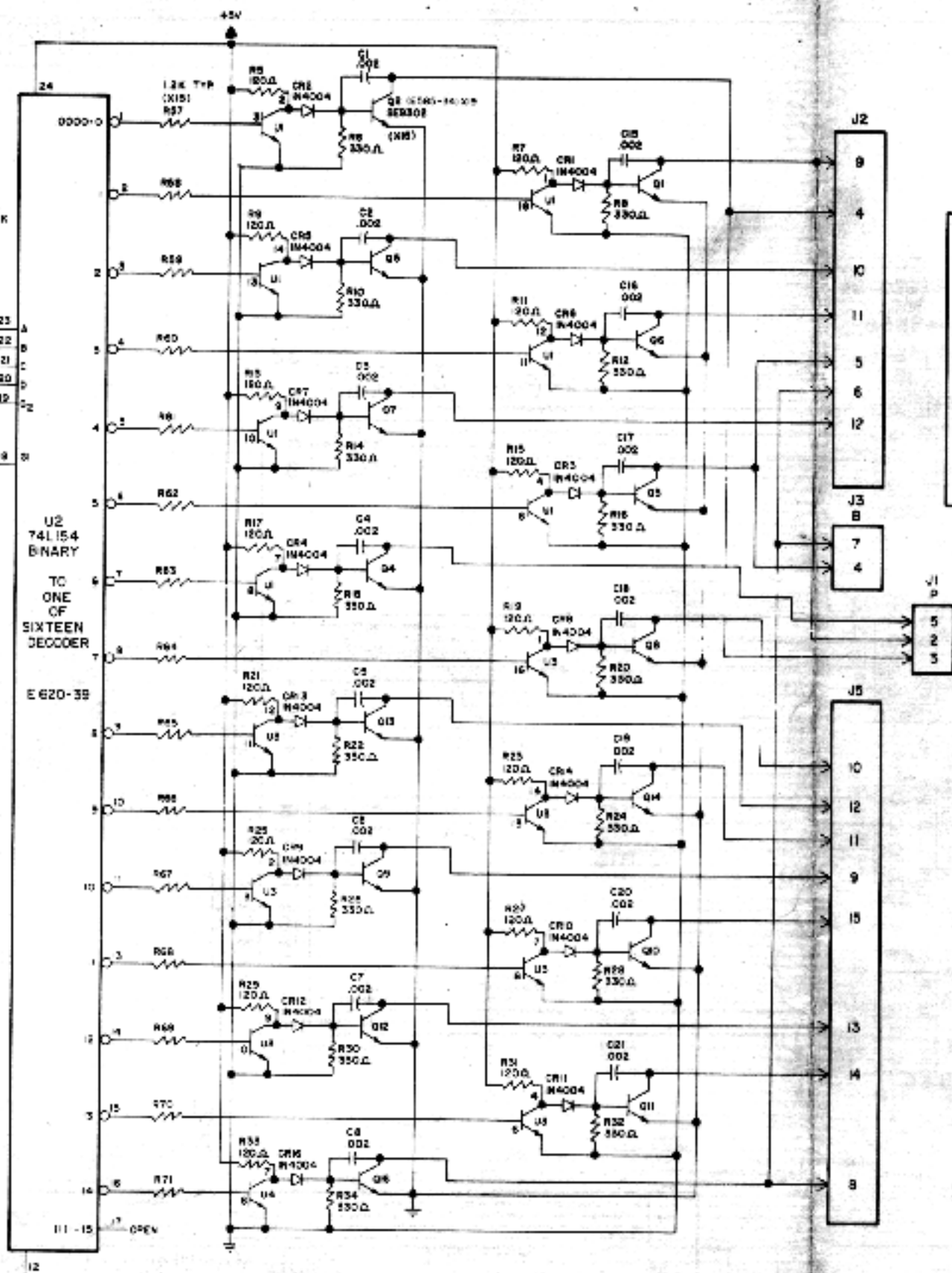
1. E-710, LAMBDA-LAS 1405 NATIONAL LM323 K FAIRCHILD 78H05KC
2. J1-KK156-9 PIN KEY PIN 7
J2-KK156-5 PIN KEY PIN 3
J3-KK100-25 PIN KEY PIN 2
J4-KK100-12 PIN KEY PIN 2
J5-KK156-15 PIN KEY PIN 6
3. PREFIX ALL REFERENCE DESIGNATIONS WITH "A3"
4. "U1", "U4", "U3" PINS 5 AND 15 ARE GROUNDED
5. VOLTAGES SHOWN ARE FOR A GAME-UP CONDITION
6. "U1", "U3" AND "U4" ARE CA-3081 (E881)
7. * INDICATES 'AID' TEST POINT.

CONNECTOR CODE

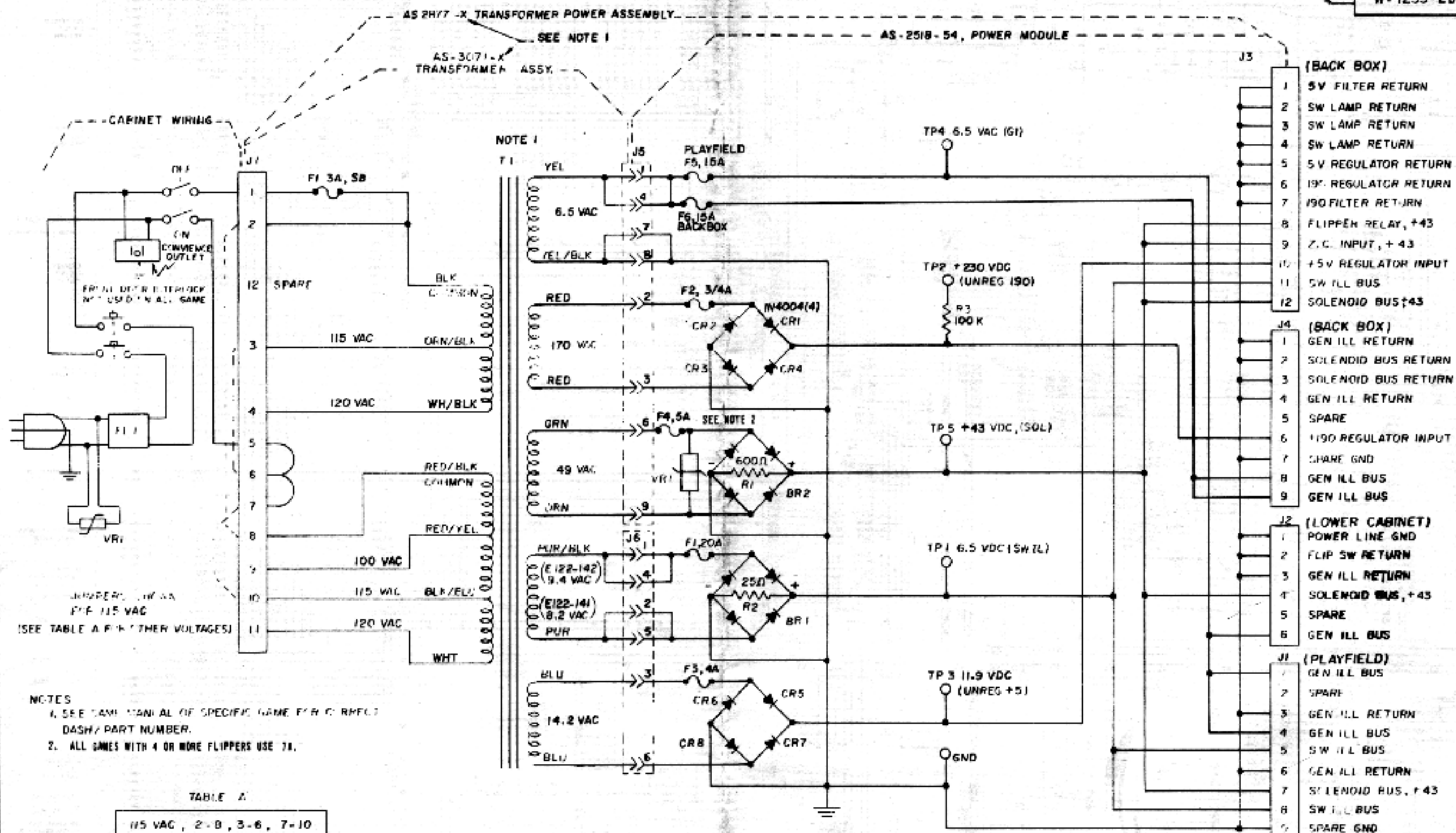
- C → ROUTE TO CABINET CONN
- B → ROUTE TO BACK BOX CONN
- P → ROUTE TO PLAYFIELD CONN

LAST NUMBER USED

- R72
- C29 N/U C9, C10
- C23 N/U Q20
- CR21
- VR1



PROJECT ENG: D. MACDONALD		REVISIONS	
DO NOT SCALE DIMS		USED ON PINBALL	Bally / MIDWAY MFG. CO. FRANKLIN, PA. U.S.A.
NEXT TRIM		NO REQ'D 1 PER	
DIM TOLERANCES: FRACTIONS UNLESS OTHERWISE SPECIFIED		SIX DIGIT DISPLAY BOARD SCHEMATIC "A1" A084-91491-A000	
DATE: 5/17/83		PART NO.: M051-00114 -A029	



4. SEE GAME MANUAL OF SPECIFIC GAME FOR C. REFLECT DASH/ PART NUMBER.

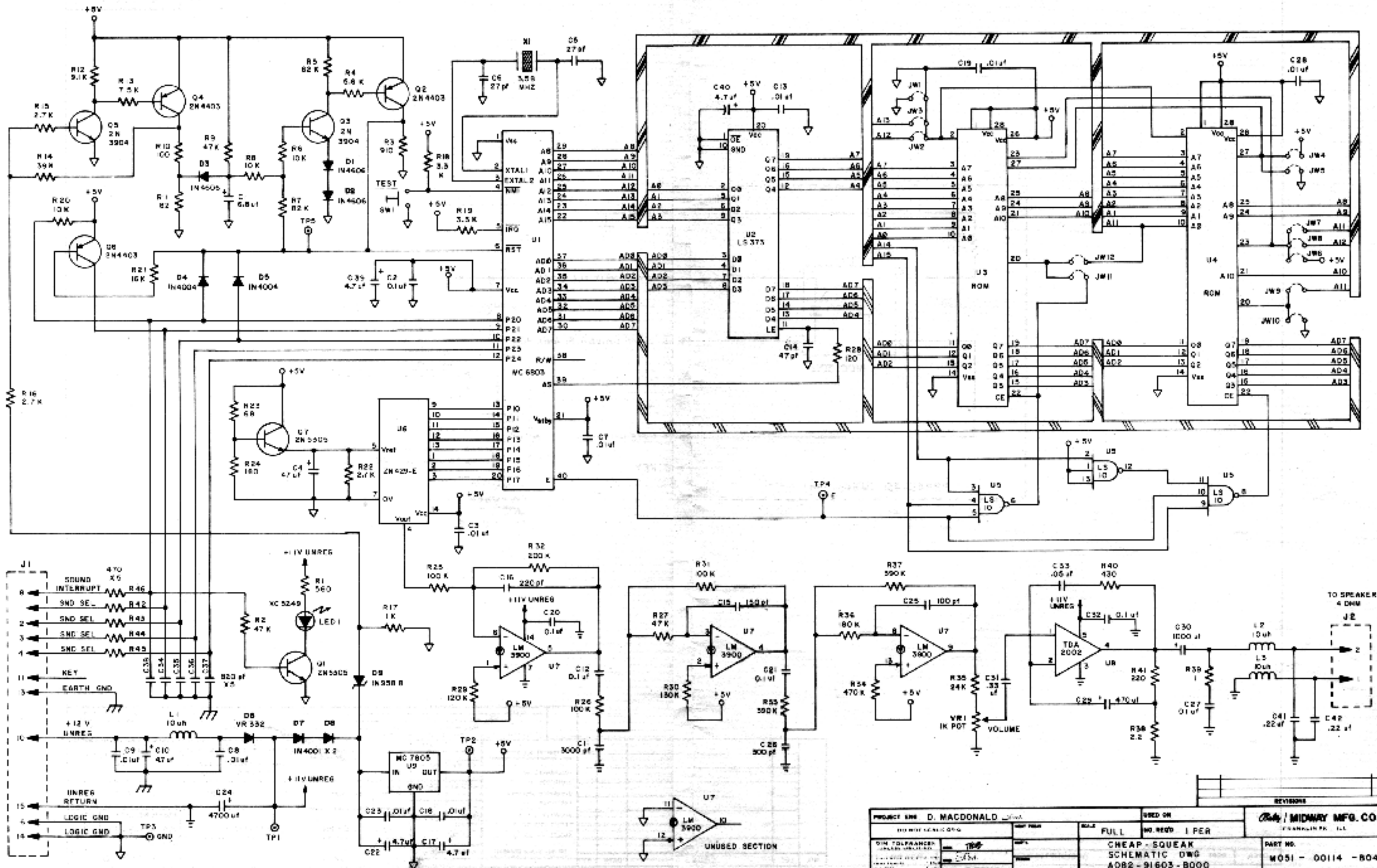
2. ALL GAMES WITH 4 OR MORE FLIPPERS USE 2A.

TABLE 1.

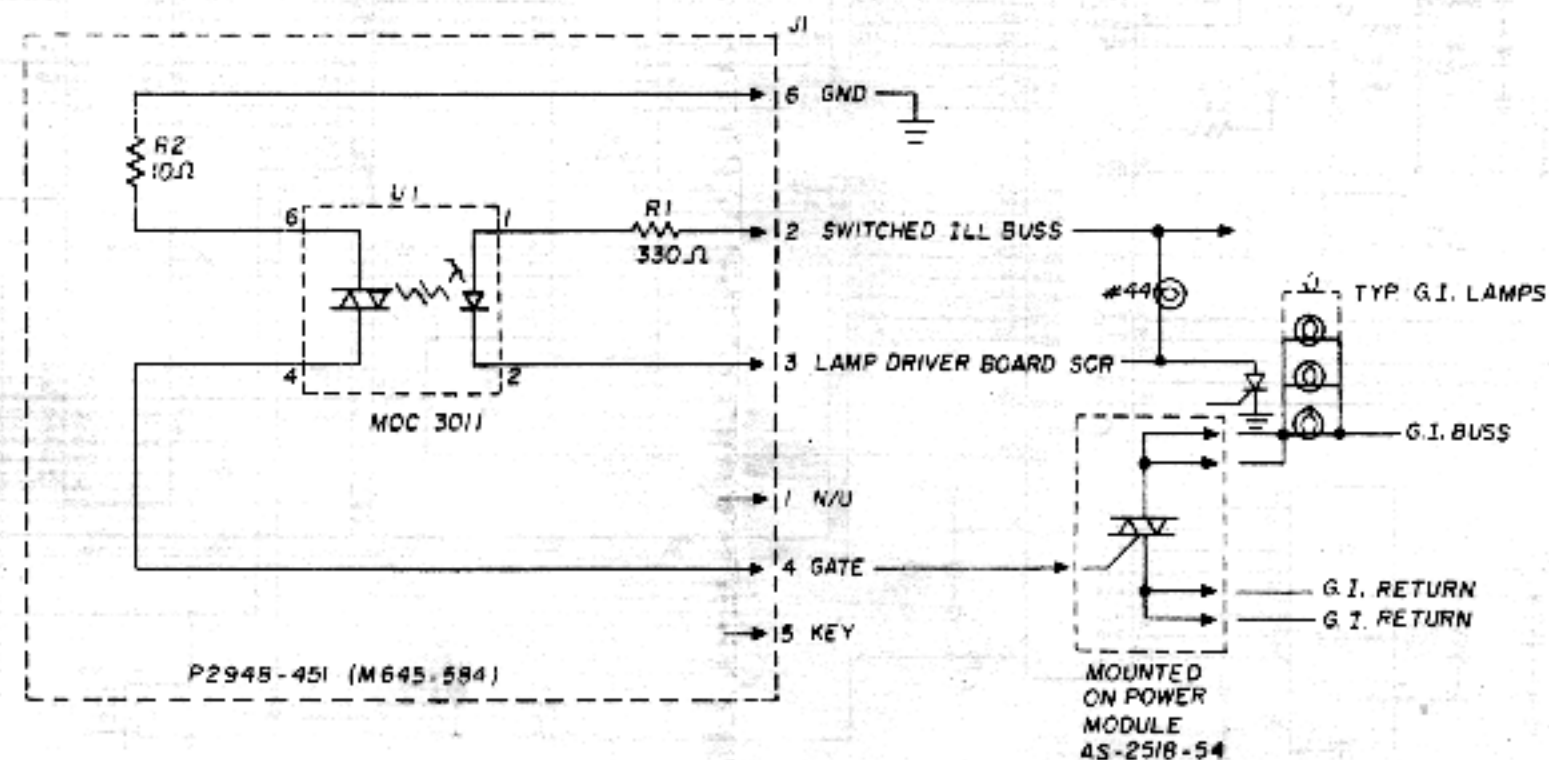
115 VAC, 2-8, 3-6, 7-10
120 VAC, 2-8, 4-6, 7-11
220 VAC, 4-8, 7-9
240 VAC, 4-8, 7-11

ALL DESIGN, OPERATIVE AND PROCESS DATA PERTAINING TO THE ARTICLES 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 INTERESTS OF THE COMPANY, AND MUST BE RETURNED ON DEMAND.

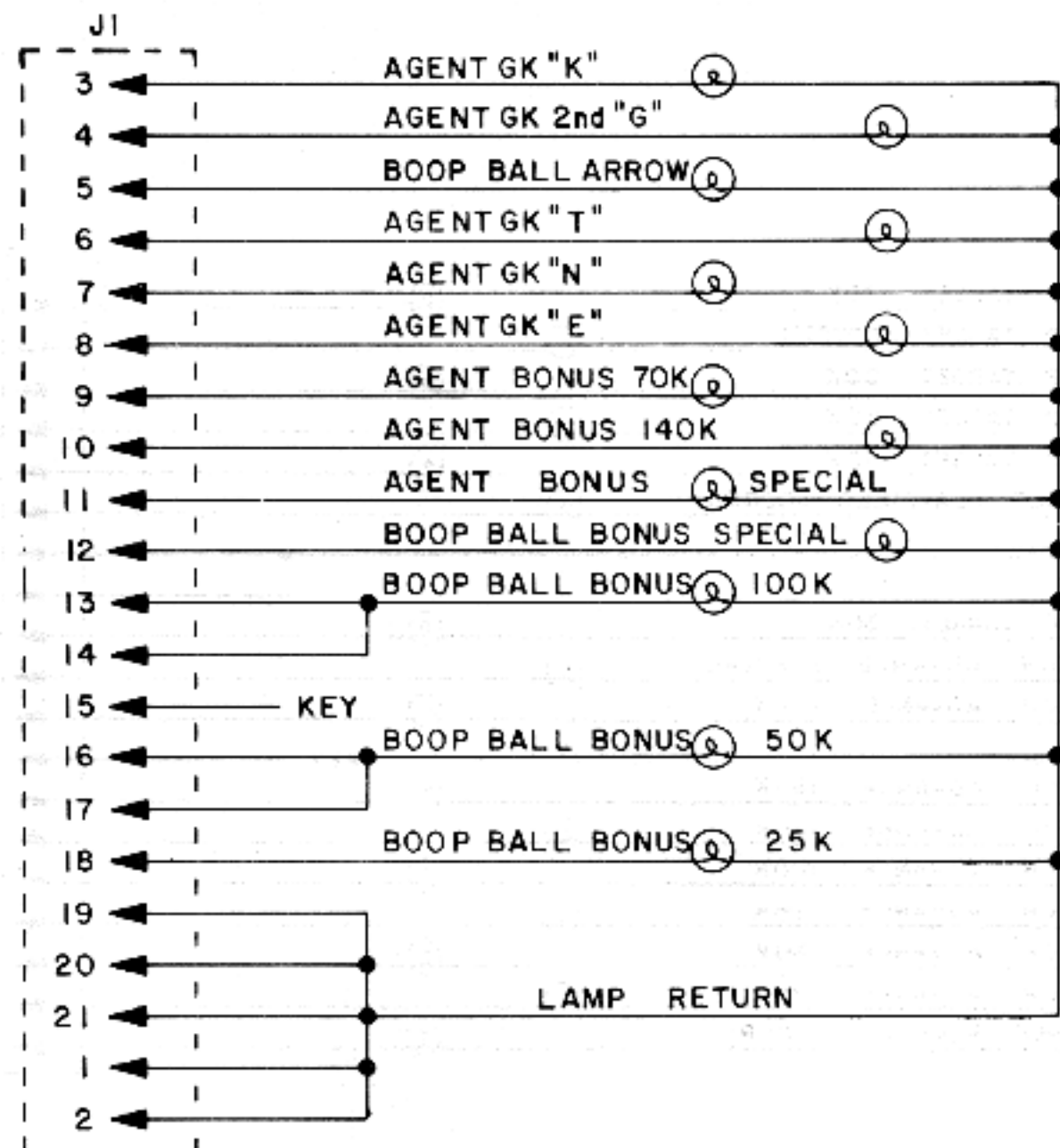
						REMOVE ALL DIMS TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED FRACTIONS = 000 DECIMALS = 000 EXCEPT HOLE DIA.'S ANGLES = 1/2"		DR. BY FFC DATE		Bally MANUFACTURING CORP. 2640 BELMONT AVENUE CHICAGO, ILLINOIS # 1273	
								CK. BY AMCR DATE		PART CONTROL	
								AP'D BY J-D DATE 7-13-82		DIE SIZE: C.C. FT. PER M. LBS. PER M.	
								AP'D BY J-D DATE 7-13-82		NAME POWER SUPPLY SCHEMATIC	
								FINISH: 		ASSEM. NO. USED 	
								HARDENING: 		MATERIAL CODE	
										PART NO. W-1233-2 b	
NO.		LET.		CHANGE		DATE		BY			



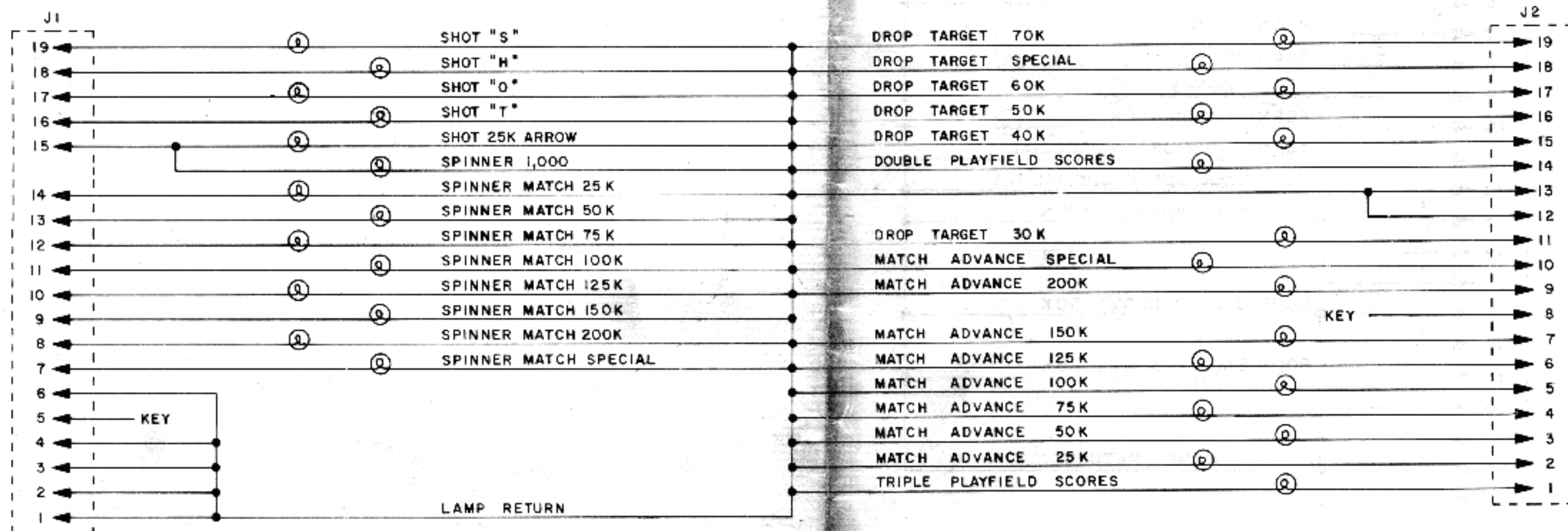
PROJECT: D. MACDONALD		USED ON		MIDWAY MFG. CO.	
DATE: 8/22/83		FULL		PART NO.	
CHEAP - SQUEAK		NO. REQD. 1 PER		M051 - 00114 - 8045	
SCHEMATIC DWG					
A082-91603-B000					

[illegible]

REMOVE ALL BURRS		DR. BY FFC	DATE 1-22-81	Bally MANUFACTURING CORP. 2640 BELMONT AVENUE CHICAGO, ILLINOIS				#1219	
TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED FRACTIONS = 1/32 DECIMALS = .001 EXCEPT HOLE DIA. & ANGLES ± .1°		CK. BY	DATE	PRINT CONTROL	DIE SIZE	C.C.	FT. PER M.	LBS. PER M.	
		AP'D BY	DATE						
		AP'D BY	DATE						
		FINISH: X			NAME G I FLASHER (SCHEMATIC)			ASSEM. NO. USED AS-2518-68	SCALE X
DO NOT SCALE DRAWING		HARDENING X			MATERIAL CODE X			PART NO. W-1253 b	



REVISIONS			
PROJECT ENG: A. AARSTAD		USED ON SPYHUNTER PIN	Bally / MIDWAY MFG. CO. FRANKLIN PK ILL
DO NOT SCALE DWG		NO. REQ'D 1 PIN	
DIM. TOLERANCES UNLESS SPECIFIED		HEAT TREAT	PART NO. M051 - 00A17 - B009
DRA. BAK		MAT'L.	
CONCENTRICITY 1/16 0.005		FINISH	SPY HUNTER PIN UPPER BONUS LITE BD. FAB. (A080-91753-BA17)
FRACTIONAL 1/64			
DECIMAL 0.005			
HOLE DIA + 0.02 0.00		DATE 6/5/84	



PROJECT EENG: A, AARSTAD		USED ON SPY HUNTER PIN		REVISIONS Bally / MIDWAY MFG. CO. FRANKLIN, ILL.
DO NOT SCALE DIM		MEAT TREAT	SCALE	
DIM. TOLERANCES UNLESS SPECIFIED		NO. REQD	PER	PART NO MO51-00A17 - CO11
DIM. BAK DATE 7/17/84		SPY HUNTER PIN LOWER FEATURE LITE BD. (A080-91754-CA17)		

SPY HUNTER DIAL

SCR	DESCRIPTION	JACK	PIN NO.	WIRE COLOR
Q22**	AGENT GK "A"	J1	10	23
Q37	AGENT GK "G" 1ST	J3	23	58
Q40	AGENT GK "E"	J3	3	81
Q11	AGENT GK "M"	J1	16	15
Q76	AGENT GK "T"	J1	7	34
Q32	AGENT GK "G" 2ND	J3	27	40
Q53	AGENT GK "K"	J3	4	14
Q2**	AGENT BONUS 20K	J1	25	75
Q17**	AGENT BONUS 140K	J1	11	65
Q41**	AGENT BONUS SPCL	J3	20	78
Q40**	BOOP BALL ARROW	J3	22	23
Q16**	BALL IN PLAY	J2	22	62
Q52	CREDIT INDICATOR	J3	13	35
Q5	DRUP TARGET BONUS 10K	J2	16	34
Q1K	DRUP TARGET BONUS 20K	J2	20	98
Q30	DRUP TARGET BONUS 30K	J2	6	85
Q43	DRUP TARGET BONUS 40K	J2	7	91
Q6	DRUP TARGET BONUS 50K	J2	14	12
Q12	DRUP TARGET BONUS 60K	J2	15	23
Q31	DRUP TARGET BONUS 70K	J2	2	PINK
Q45	DRUP TARGET BONUS SPCL	J2	1	80
Q33	GAME OVER BACK BOX	J2	11	95
Q46	"G" CONTROL	J3	18	56
Q15	HIGH SCORE BACK BOX	J2	23	97
Q29	L1 MISSILE	J1	1	71
Q36	M2 MISSILE	J3	26	43
Q57	M1 MISSILE	J3	3	10
Q22**	MATCH BACK BOX	J1	4	35
Q27	Q1L LT	J1	9	43
Q38	Q1L MID	J3	25	36
Q50	Q1L RT	J3	17	21
Q4**	OUTHOLE 21	J1	23	12
Q35**	OUTHOLE 31	J1	3	45
Q40**	OUTHOLE 41	J3	17	13
Q54**	OUTHOLE 51	J3	11	92
Q55**	SPINNER 11	J3	9	15
Q28	SPOKE LT	J1	8	51
Q44	SPOKE MID	J3	19	67
Q51	SPOKE RT	J3	15	49
Q4**	SKILL 10K	J1	14	67
Q34**	SKILL 25K	J1	2	52
Q48**	SKILL 50K	J3	16	25
Q7	SHOT "S"	J1	27	63
Q21	SHOT "I"	J1	12	61
Q39	SHOT "O"	J3	24	72
Q53	SHOT "T"	J3	14	84
Q4	SPINNER MATCH 25K	J1	28	70
Q25	SPINNER MATCH 50K	J1	6	44
Q30	SPINNER MATCH 75K	J1	13	30
Q59	SPINNER MATCH 100K	J2	2	95
Q1**	SPINNER MATCH 125K	J1	24	50
Q24**	SPINNER MATCH 150K	J1	5	48

SPY HUNTER DIAL CONT'D

SCR	DESCRIPTION	JACK	PIN NO.	WIRE COLOR
Q42**	SPINNER MATCH 200K	J3	21	64
Q56**	SPINNER MATCH SPCL	J3	13	68
Q3**	SPSA PLAYFIELD	J1	26	91
Q3**	SPSA BACK BOX	J2	21	47
Q47	TILT BACK BOX	J2	10	35
Q14	WEAPONS 20K	J1	18	55
Q12	WEAPONS SPCL	J1	19	62
Q13	WEAPONS SPCL	J1	17	57
Q10**	WEAPONS X BALL	J1	15	13

NOTE: ** INDICATES MCR 106-1 ALL OTHERS ARE 2N5060 OR EQUIVALENTS

A9 AUX LAMP DRIVER LOCATION

SCR	DESCRIPTION	JACK	PIN NO.	WIRE COLOR
Q4	BOOP BALL BONUS 25K	J2	5	60
Q3	BOOP BALL BONUS 50K + PLAYFIELD D3JELE	J2	3	62
Q10	BOOP BALL BONUS 100K + PLAYFIELD TRIPLE	J2	20	95
Q9	BOOP BALL BONUS SPCL	J2	17	96
Q6	MATCH ADVANCE 25K	J2	7	32
Q1	MATCH ADVANCE 50K	J2	1	43
Q12	MATCH ADVANCE 75K	J2	18	25
Q7	MATCH ADVANCE 100K	J2	11	15
Q5	MATCH ADVANCE 125K	J2	2	46
Q2	MATCH ADVANCE 150K	J2	2	40
Q11	MATCH ADVANCE 200K	J2	19	82
Q8	MATCH ADVANCE SPCL	J2	12	27

NOTE: SCR'S ARE MCR-106-1

A5 SOLENOID DRIVER LOCATION

TRANSISTOR	DESCRIPTION	JACK	PIN NO.	WIRE COLOR
Q13	THIMPER RUNPER	J5	15	74
Q13	COIN LOCKOUT	J2	8	36
Q9	DRUP TARGET RESET	J5	9	71
Q17	GATE	J5	7	91
Q15	KNOCKER	J2	6	84
Q12	SLINGSHOT LT	J5	13	80
Q14	SAUCER	J5	11	83
Q11	OUTHOLE	J5	14	78

NOTE: TRANSISTORS ARE SE 9302 OR EQUIVALENT

WIRE COLOR CODE

1-BRD -R-	6-BROWN -BR-
2-BLUE -BLU-	7-ORANGE -O-
3-YELLOW -Y-	8-BLACK -B-
4-GREEN	9-GRAY
5-WHITE -W-	0-NO TRACER
00-JUMPER	
1-FIRST NUMBER-BODY COLOR	
2-SECOND NUMBER-TRACER COLOR	
EXAMPLE: 50 -WHITE	
51 -WHITE-RED	