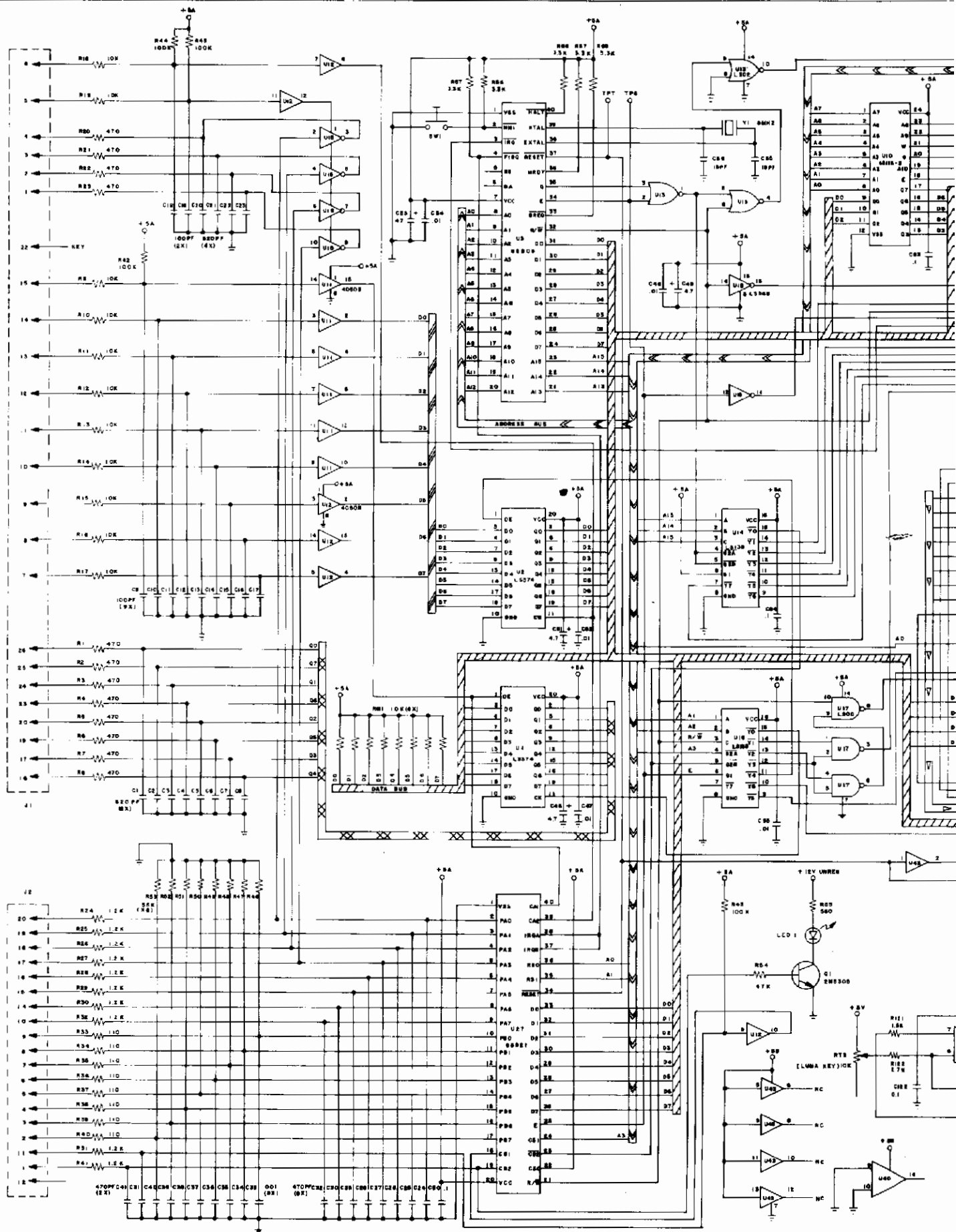
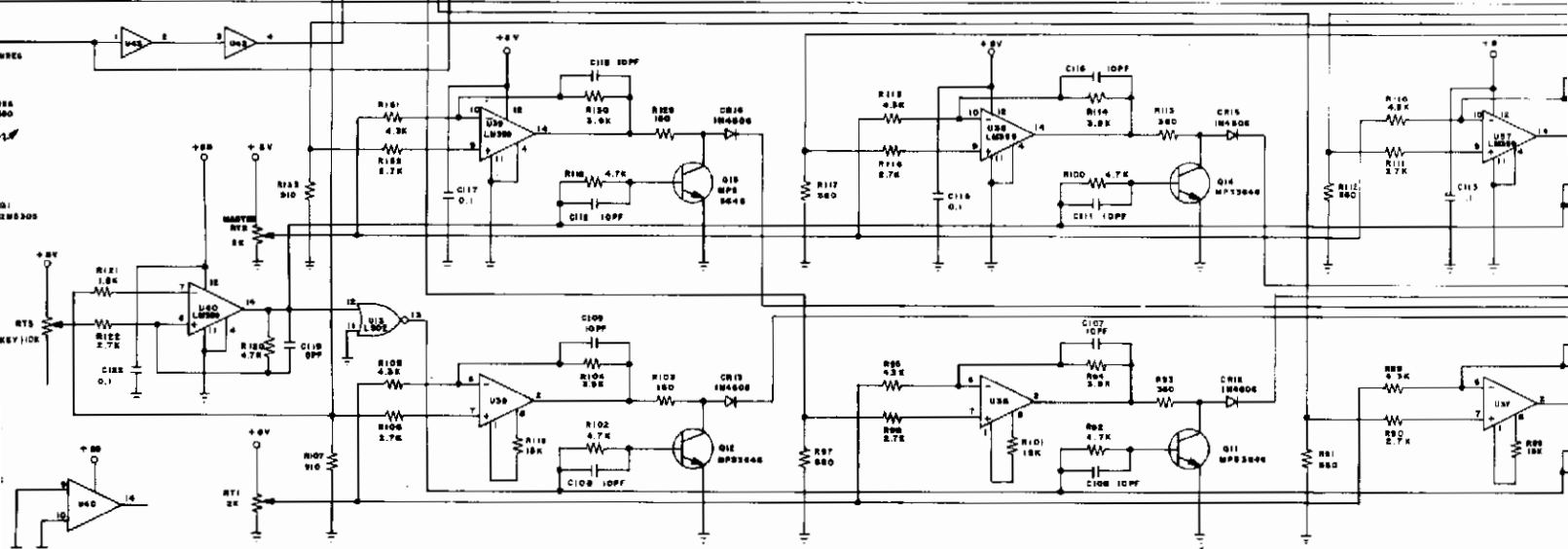
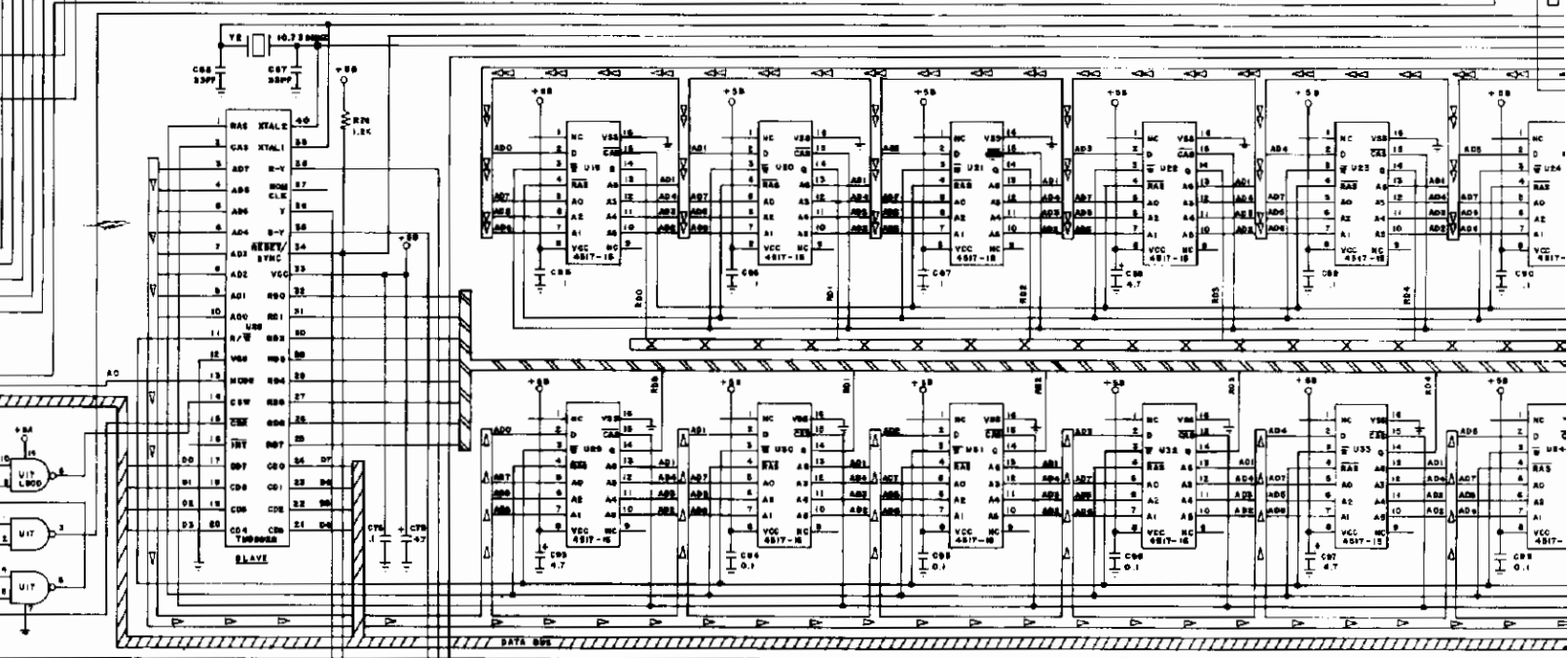
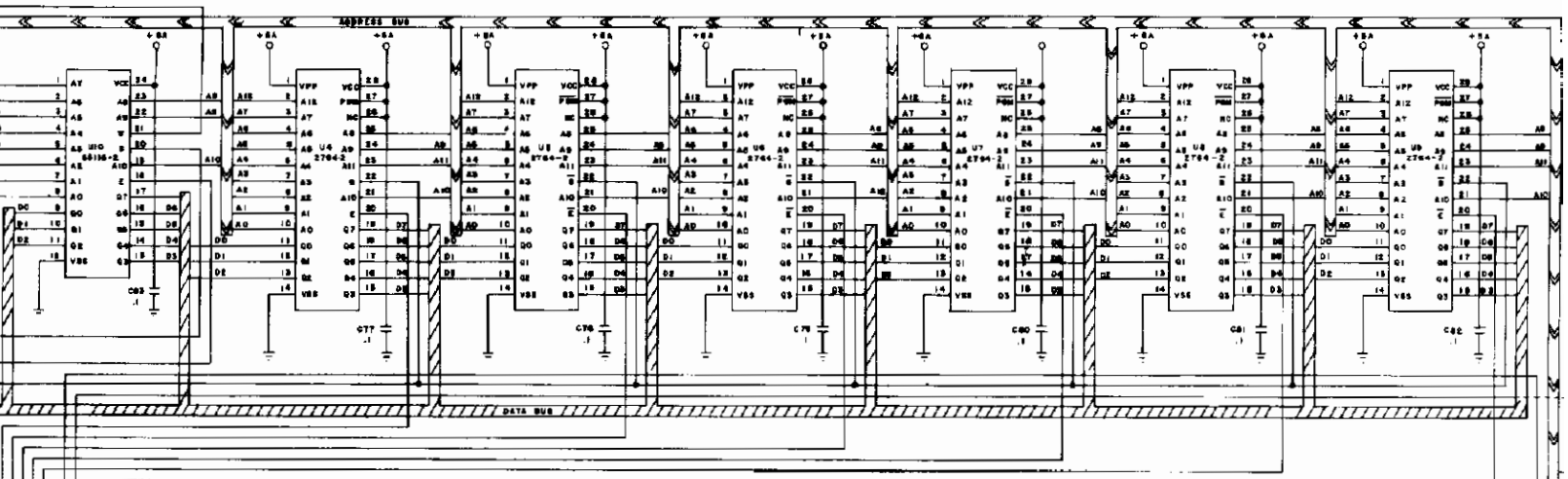
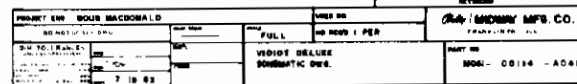








WIRE	FUNCTION	FROM	PIN
51	ST0	AUJ2-1	1
70	ST1	AUJ2-2	2
93	ST2	AUJ2-3	3
53	ST3	AUJ2-4	4
34	ST4	AUJ2-5	5
54	I0	AUJ2-8	6
63	I1	AUJ2-9	7
57	I2	AUJ2-10	8
78	I3	AUJ2-11	9
60	I4	AUJ2-12	10
56	I5	AUJ2-13	11
65	I6	AUJ2-14	12
52	I7	AUJ2-15	13
40	POWER LITE	AJ3-12	14
90	SA ZRING	AJ4-15	15

PLAYFIELD PLUG

WIRE	FUNCTION	FROM	PIN
71	SOUND 1	VJ5-1	1
40	43V	A2J2-4	2
10	TEST SW	A4J3-1	3
31	TEST RET	A3J8-20	4
38	GI	A2J2-6	5
41	GI	A2J2-3	6
70	SI	A4J3-3	7
54	I0	A4J3-9	8
63	I1	A4J3-10	9
			10
52	I7	A4J3-16	11
50	SOUND VOLUME	SPEAKERS	12
80	SOUND 2	VJ5-2	13
			14
			15

WIRE	FUNCTION	FROM	PIN
13	FIRE	VJ2-3	1
23	FIRE/POWER	VJ2-2	2
53	LEFT PADLOCK	VJ2-4	3
43	RIGHT PADLOCK	VJ2-5	4
60	VID ST	VJ2-10	5
14	POWER SW	VJ2-14	6
39	GI BUSS	A2J4-5	7
41	GI RET	A2J4-4	8
40	POWER LITE	AJ3-12	9
90	POWER LITE	SA	10
			11
			12

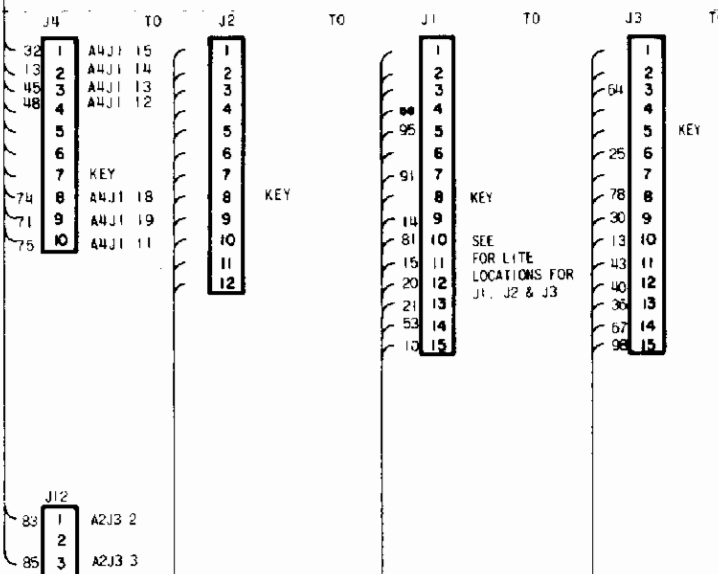
PLAYFIELD PLUG

PLUG B
TO FRONT DOOR

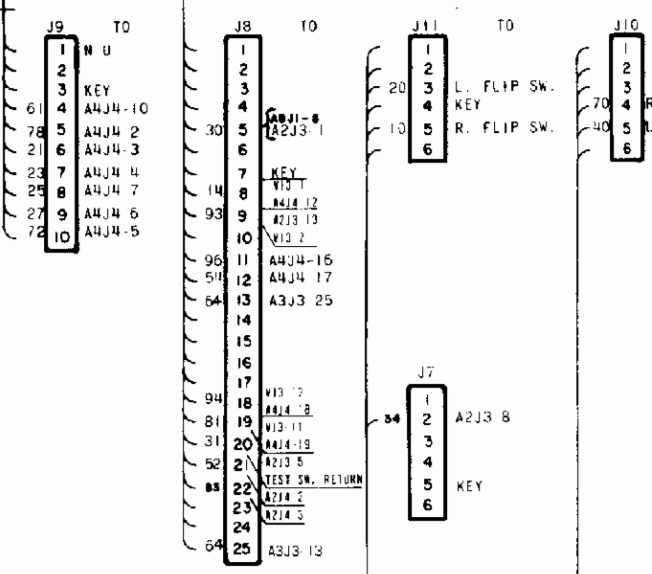
PLUG C
TO CONTROL PANEL

TO PS (A2)

LAMP DRIVER P/O A3 (I)



VOLTAGE REGULATOR/ SOLENOID DRIVER



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.
4. ALL DIODES 1N4148 UNLESS OTHERWISE NOTED.

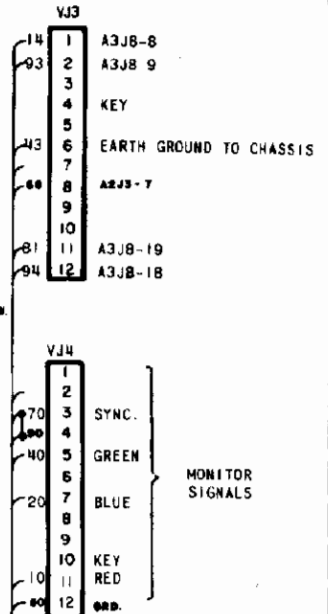
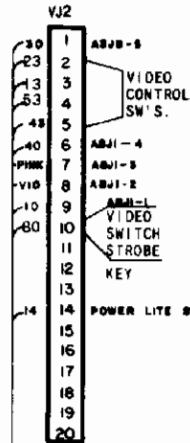
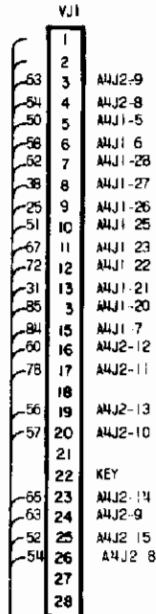
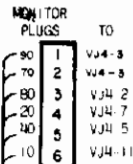
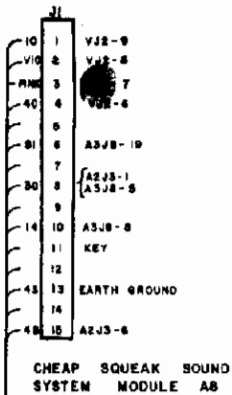
P.C.B. ABBREVIATION
A1 - N/U
A2 - POWER MODULE (PS)
A3 - COMBO BD. (I)
V - VIDIOT
M - MONITOR

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

MONITOR (M)

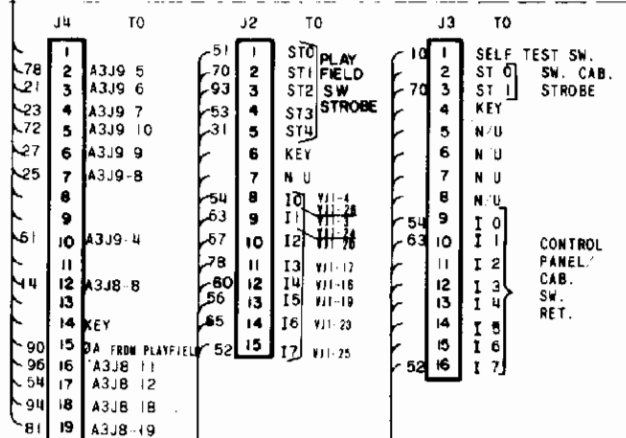
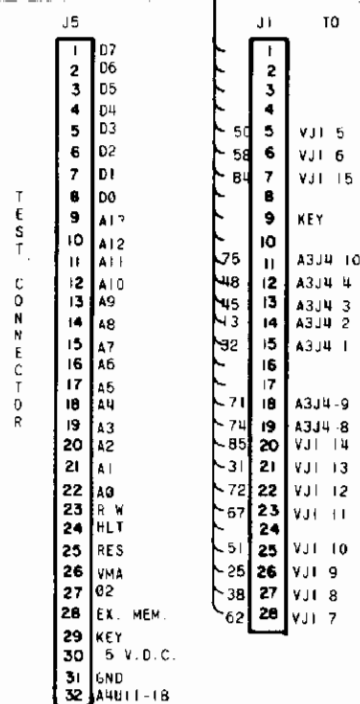
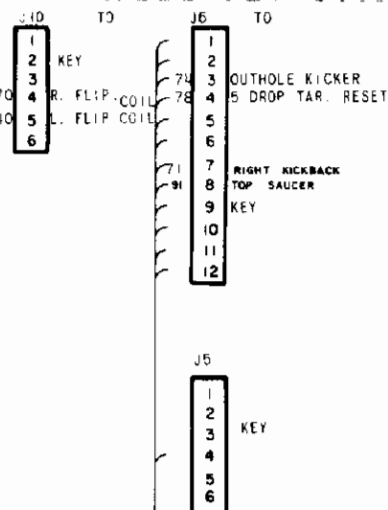
VIDIOT (V) DELUXE

L PART NO. W



DRIVER P/O A3 (I)

MPU A4 (C)

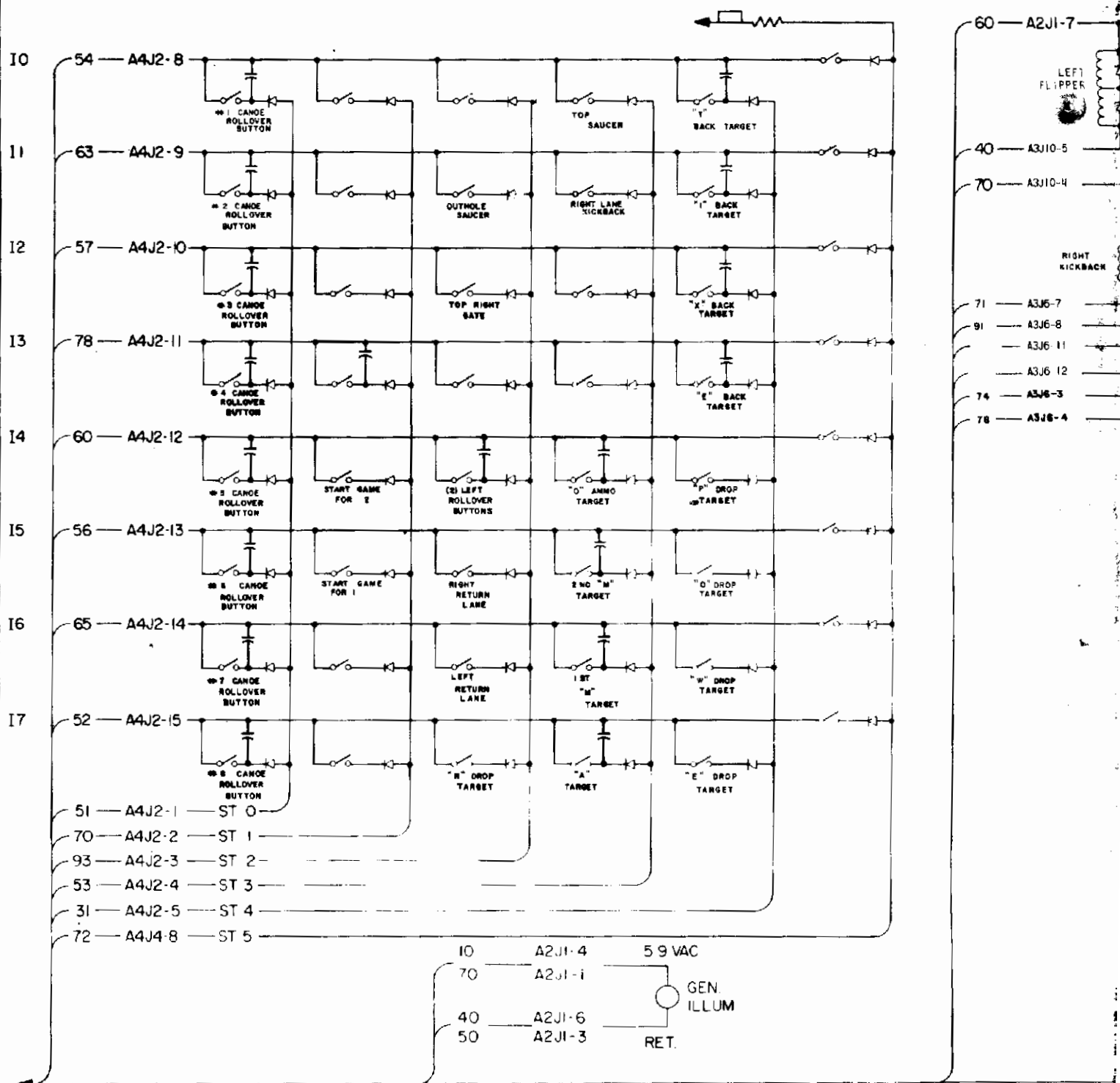


LOR CODE

6-BROWN
7-ORANGE
8-BLACK
9-GRAY
0-NO TRACER

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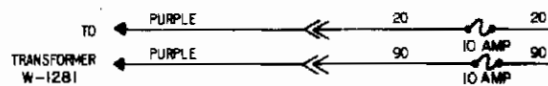
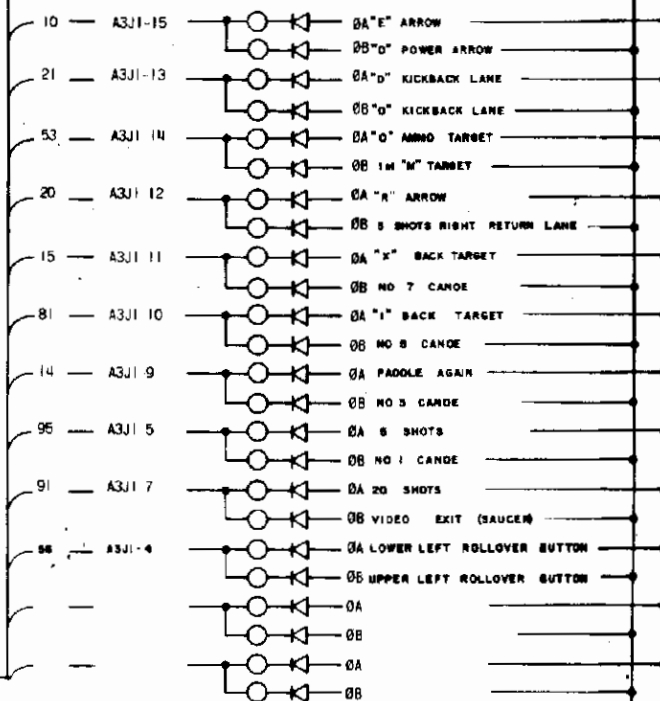
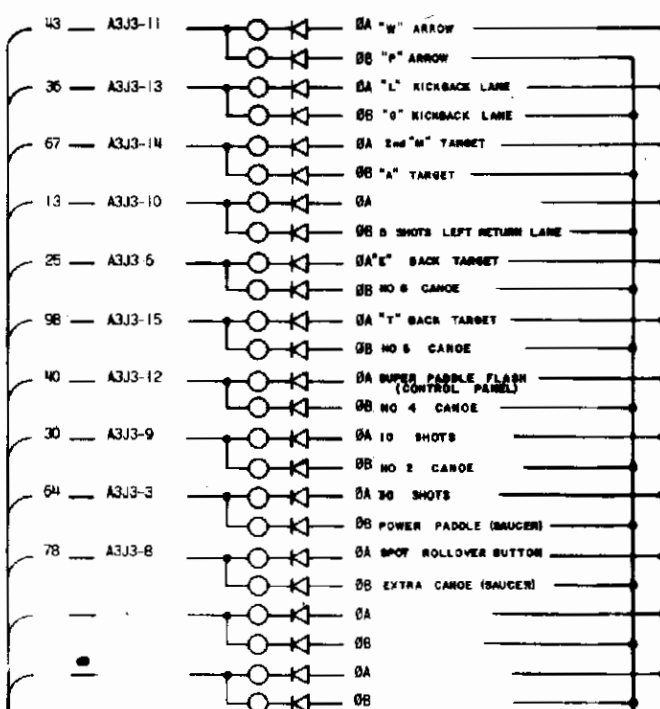
REMOVE ALL BURRS		DR BY DATE		Bally MANUFACTURING CORP. 2640 BELMONT AVENUE CHICAGO, ILLINOIS	
TOLERANCES UNLESS OTHERWISE SPECIFIED		CK BY DATE		F. 0888	
FRACTIONS - 1/32		AP'D BY DATE		M051-00369-A083	
DECIMALS - 0.01		AP'D BY DATE		NAME WIRING DIAGRAM VIDEO - PIN	
EXCEPT HOLE DIA. 5				ASBEN NO USED	
ANGLES - 1/2"				SCALE	
DO NOT SCALE DRAWING				MATERIAL GRABBY & THE SATONB	
				PART NO. W	
NO.	LET.	CHANGE	DATE	BY	



PLAYFIELD A6

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 IN4148 (E-587-14)
ALL CAPACITORS ARE .05 MFD (E-586-80)
5. GERMANY ONLY - CAPACITOR 01 MFD. @ 500 V. (E-586-65)

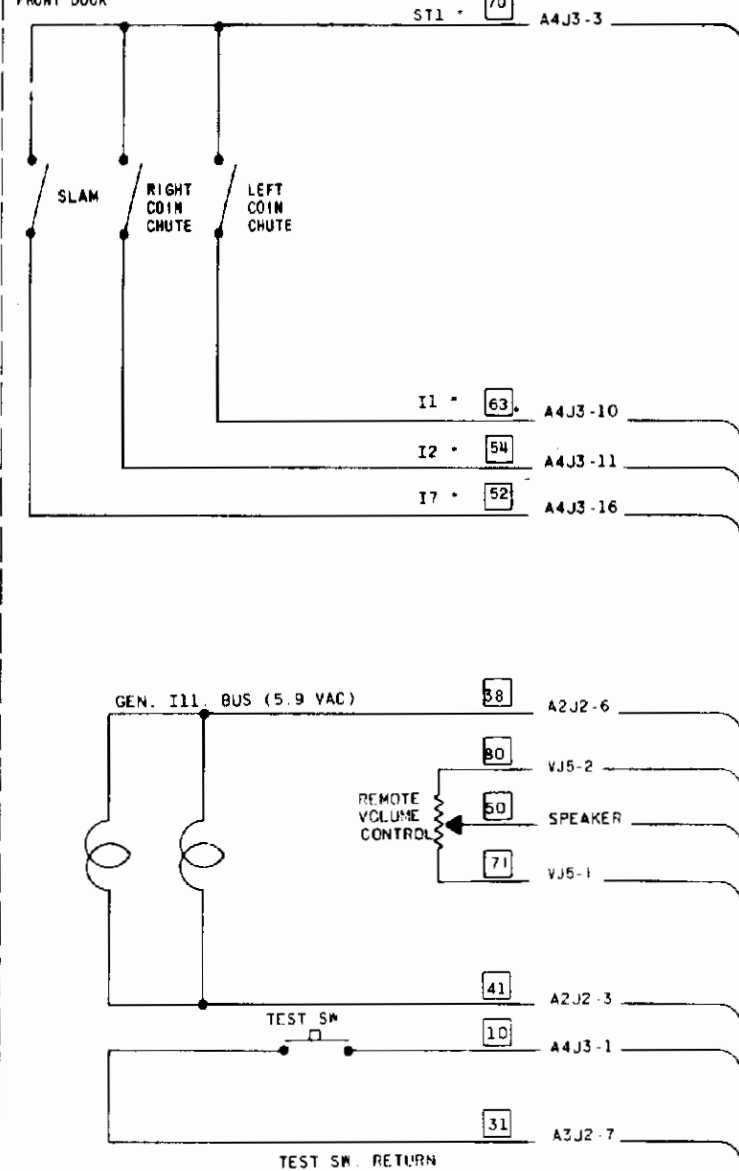


ALL DESIGN INFORMATION AND PRELIMINARY DRAWINGS FOR THIS PROJECT ARE TO BE SUBMITTED TO THE PROJECT MANAGER, BALLY MANUFACTURING CORP., 2640 BELMONT AVENUE, CHICAGO, ILLINOIS 60609. ALL INFORMATION MUST BE SUBMITTED TO THE PROJECT MANAGER, BALLY MANUFACTURING CORP., 2640 BELMONT AVENUE, CHICAGO, ILLINOIS 60609. ALL INFORMATION MUST BE SUBMITTED TO THE PROJECT MANAGER, BALLY MANUFACTURING CORP., 2640 BELMONT AVENUE, CHICAGO, ILLINOIS 60609.	
MEMBER NAME TELEPHONE NO. ADDRESS CITY STATE ZIP FAX NO. E-MAIL PROJECT NO. DATE	OR BY DATE CP BY DATE APP BY DATE APP'D BY DATE NAME WIRING DIAGRAM PLAYFIELD MATERIAL CRANBY & THE SATORS GSG
BALLY MANUFACTURING CORP. 2640 BELMONT AVENUE CHICAGO, ILLINOIS 60609 M051-00389-A084	ASSEMBLY NO. USED PART NO. W-

WIRE COLOR CODE

1. RED - R-
2. BLUE - BLU-
3. YELLOW - Y-
4. GREEN - G-
5. WHITE - W-
1. FIRST NUMBER - BODY COLOR.
2. SECOND NUMBER - TRACER COLOR.
- EXAMPLE: 50- WHITE
- 51- WHITE-RED

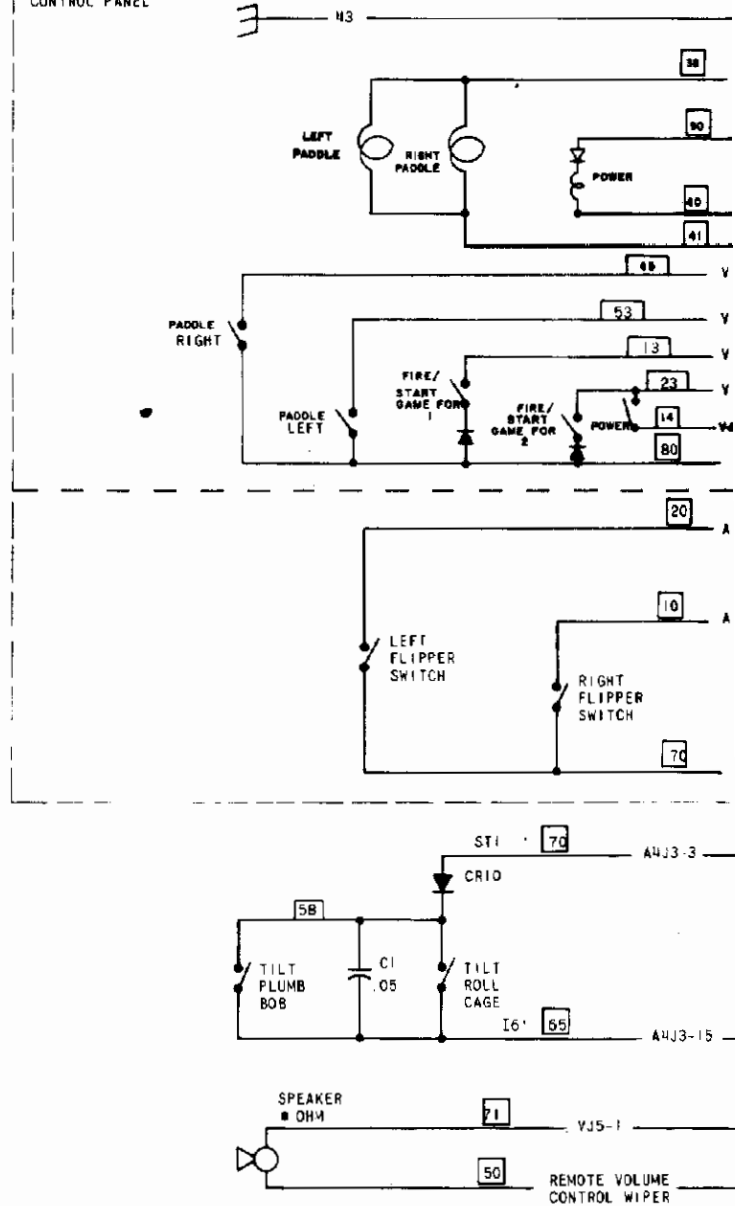
FRONT DOOR



NOTES: (CAUTION)

1. USE BALLY PART NO. E-713 FOR 115-120 V.A.C.
2. USE BALLY PART NO. E-713-1 FOR 220-240 V.A.C.
3. * INDICATES AID TEST POINT.

CONTROL PANEL



PLUG "B"

15 PIN PLUG B

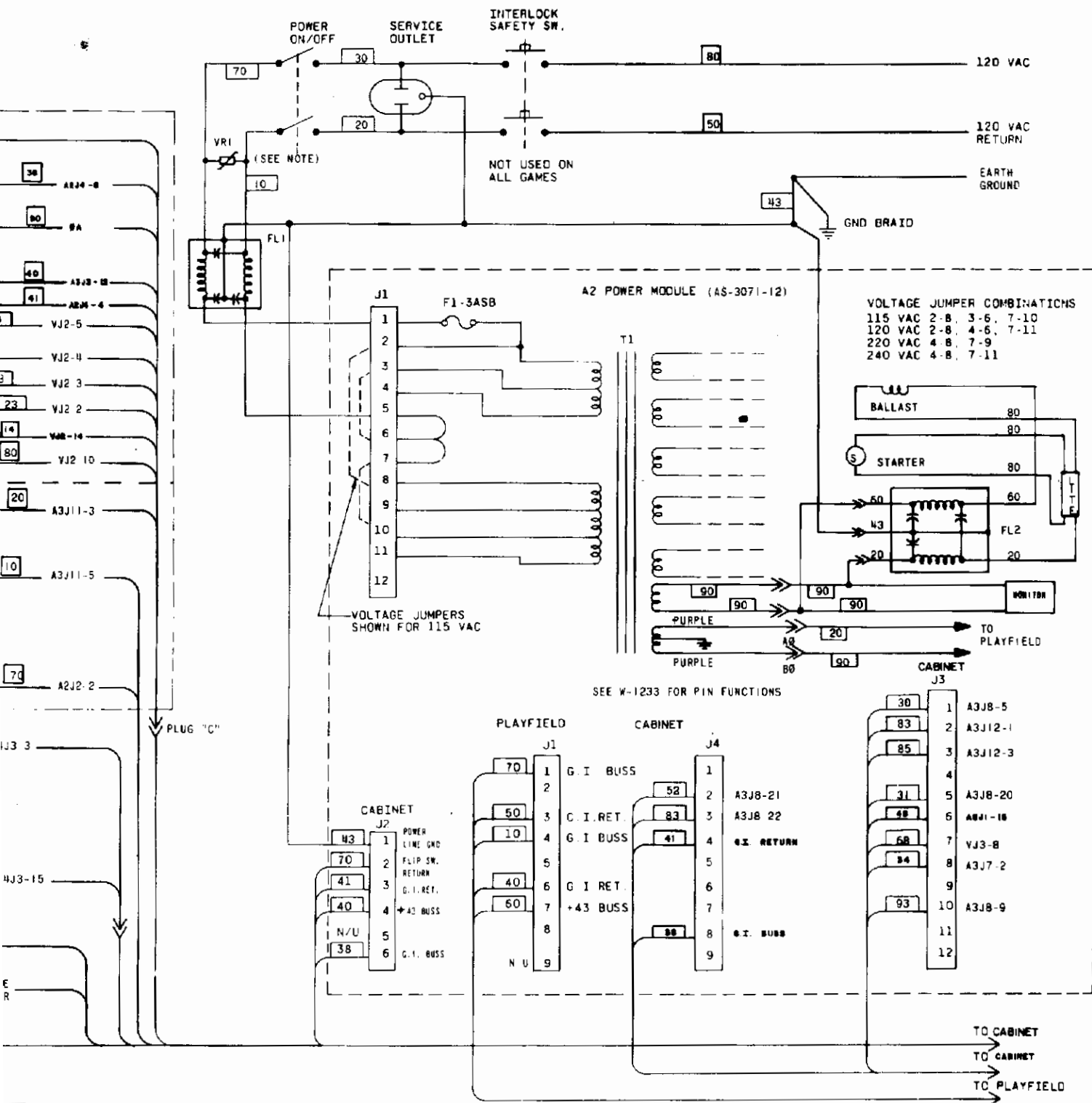
FROM	PIN	WIRE
VJ5-1	1	71
	2	
A4J3-1	3	10
A3J2-7	4	31
A2J2-6	5	38
A2J2-3	6	41
A4J3-3	7	70
A4J3-11	8	54
A4J3-10	9	63
	10	
A4J3-16	11	52
SPEAKER	12	50

FROM	PIN	WIRE
VJ5-2	13	80
	14	
	15	
FRONT DOOR		

CONTROL PANEL 12 PIN PLUG C

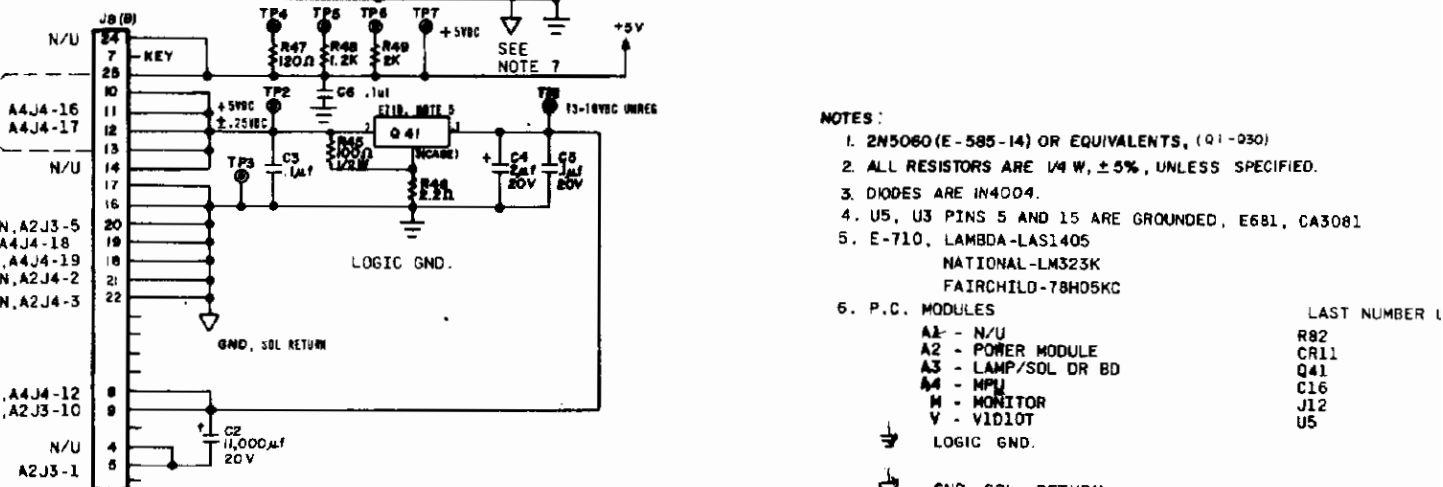
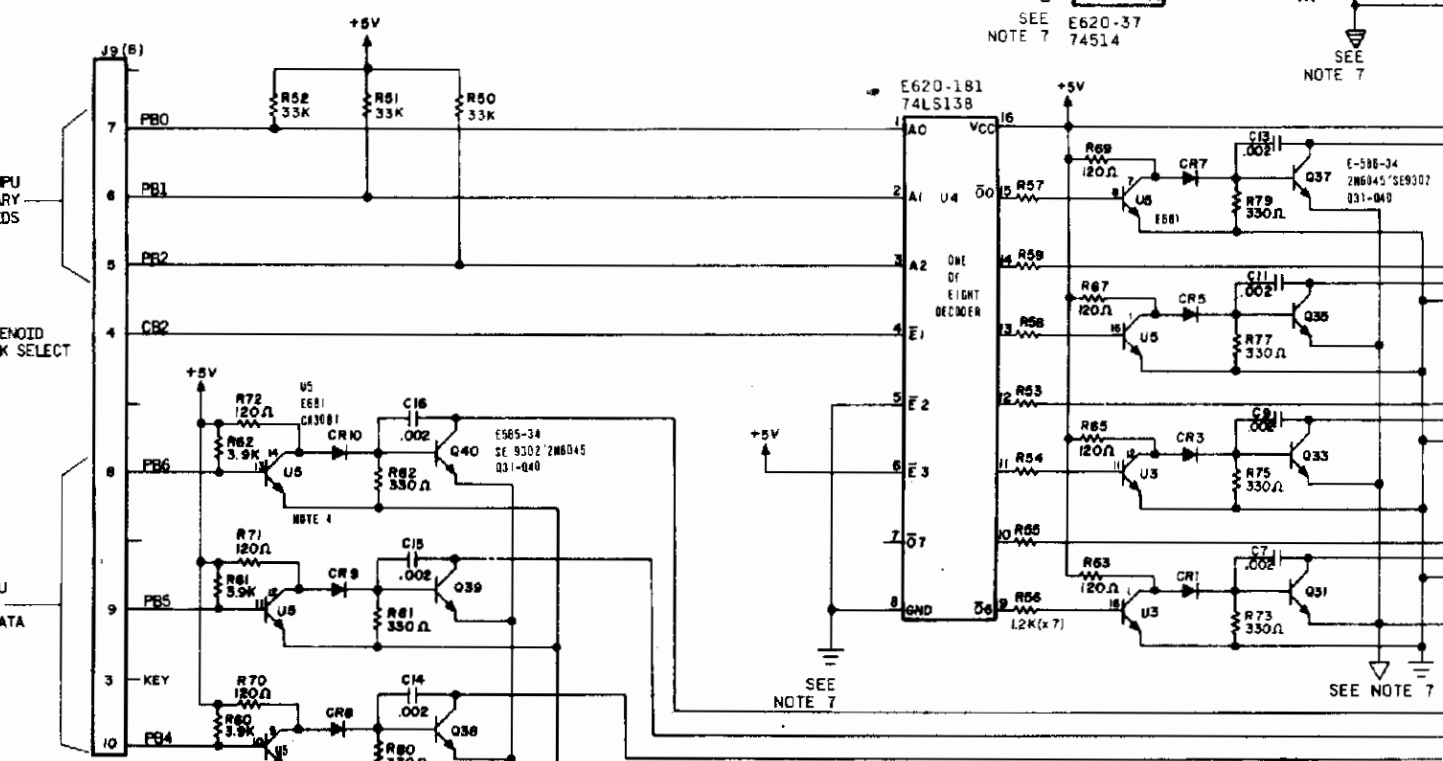
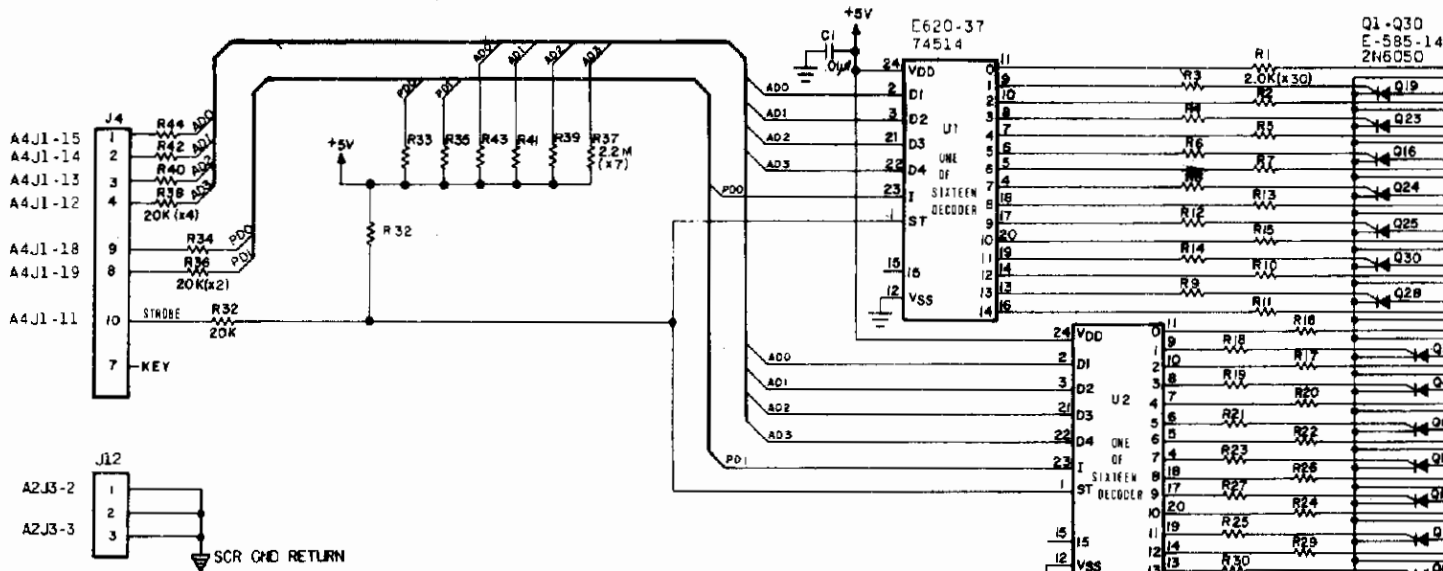
FROM	PIN	WIRE
VJ2-3	1	18
VJ2-2	2	23
VJ2-4	3	63
VJ2-8	4	43
VJ2-10	5	80
VJ2-14	6	14
A4J4-8	7	38
A4J4-4	8	41
A5J3-1E	9	40
8A	10	80
	11	
	12	

OPER.	DEPT.	DESCRIPTION	TOOL No.
-------	-------	-------------	----------



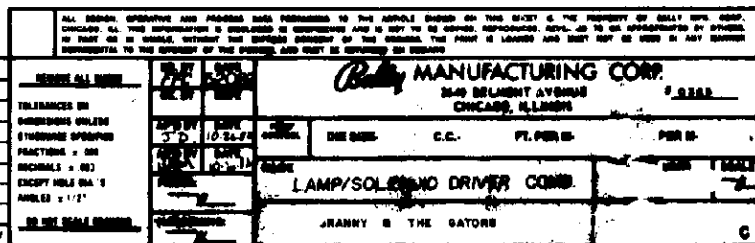
A7 CABINET ASS'Y. WIRING
 NOTE: DIODES ARE IN4004, (E 587 6)

ALL DESIGN OPERATIVE AND PROCESS DATA PERTAINING TO THE ARTICLE SHOWN ON THIS SHEET IS THE PROPERTY OF BALLY MANUFACTURING 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 PARTS, LOGS AND DATA NOT BE USED IN ANY MANNER, BUT LIMITED TO THE INTEREST OF THE COMPANY, AND MUST BE RETURNED ON REQUEST.			
REMOVE ALL BUSHES IN PLACES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED FRACTIONS - 000 DECIMALS - 001 EXCEPT HOLE DIA. 5 ANGLES - 1:2		OR BY DATE CK BY DATE AP'D BY DATE AP'D BY DATE	
BALLY MANUFACTURING CORP. 2640 BELMONT AVENUE CHICAGO, ILLINOIS 60649		M051-00389-A085	
NAME FRONT DOOR WIRING DIAGRAM CONTROL PANEL CABINET		ADDN NO. USED 1 PART NO. W- C	
MATERIAL GRANNY & THE SATORS		CODE	
NO.	LET.	CHARGE	DATE BY



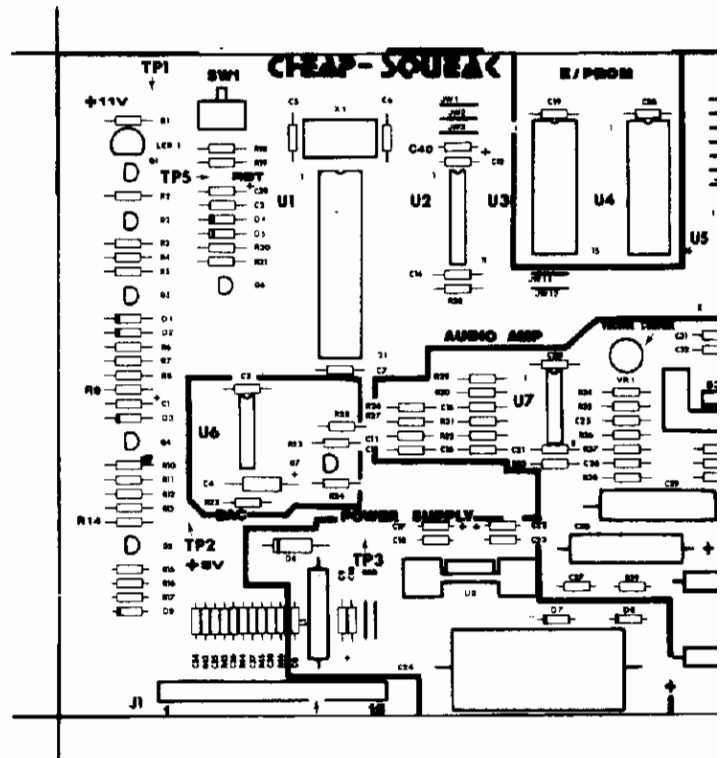
- NOTES:
1. 2N5060(E-585-14) OR EQUIVALENTS, (Q1-Q30)
 2. ALL RESISTORS ARE 1/4 W, $\pm 5\%$, UNLESS SPECIFIED.
 3. DIODES ARE IN4004.
 4. U5, U3 PINS 5 AND 15 ARE GROUNDED, E681, CA3081
 5. E-710, LAMBDA-LAS1405
NATIONAL-LM323K
FAIRCHILD-78H05KC
 6. P.C. MODULES
- | | |
|---------------------|---------------|
| A1 - N/U | LAST NUMBER 1 |
| A2 - POWER MODULE | R82 |
| A3 - LAMP/SOL DR BD | CR11 |
| A4 - MPU | Q41 |
| M - MONITOR | C16 |
| V - VIDEO | J12 |
| | U5 |
- LOGIC GND.
 ↓ GND. SOL. RETURN
 ↓ SCR GND. RETURN

DESCRIPTION	TOOL No.
-------------	----------



DESCRIPTION LIST

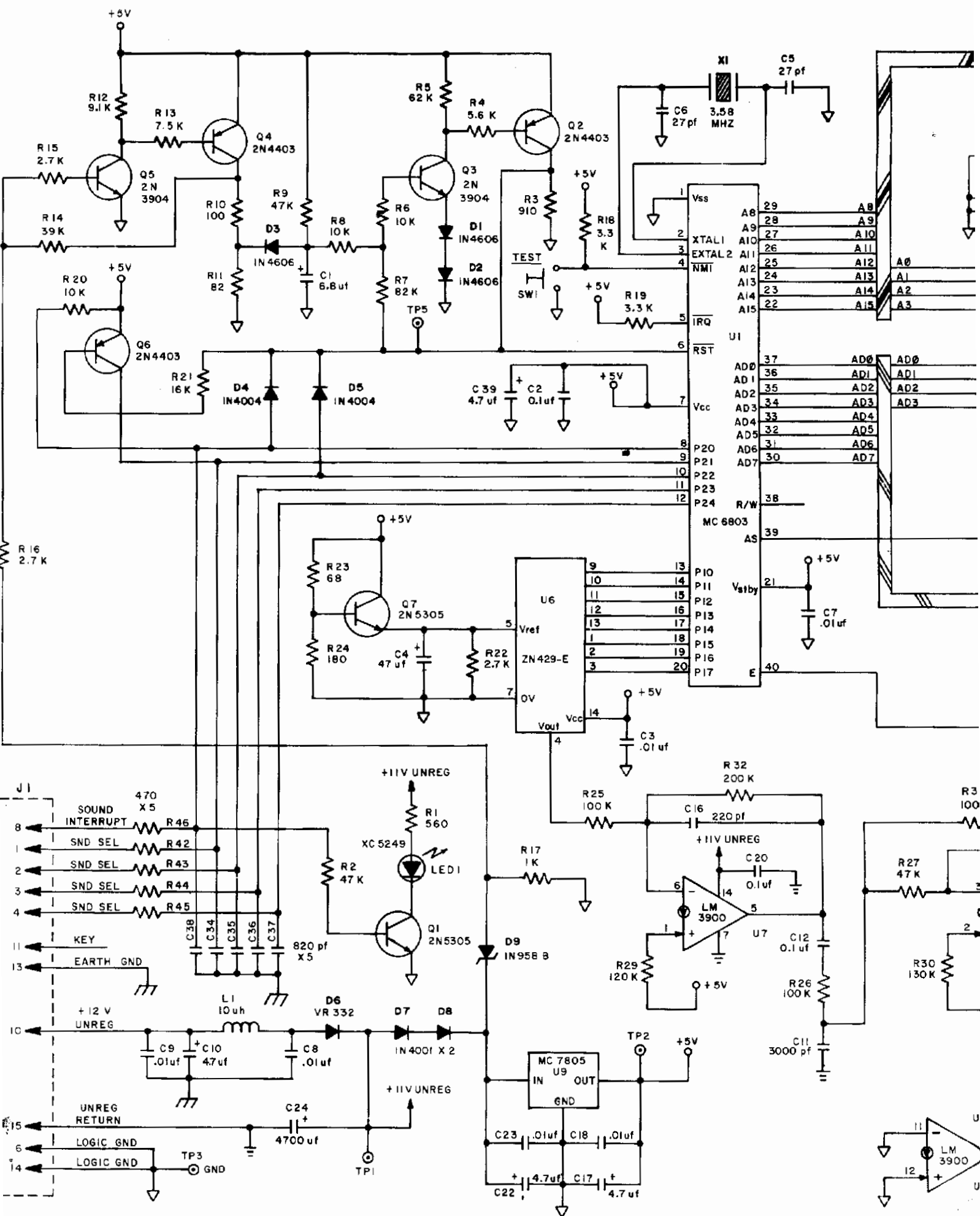
DESIGNATION NO.	DESCRIPTION	DESIGNATION NO.	DESCRIPTION
C1	6.8 UF @ 25V, TANT	01-03	1N4606
C2,C3	.01 UF	04,05	1N4004
C5,C6	27 PF,50	07,08	1N4004
C7-C9	.01 UF	09	1N958B
C10	4.7 UF @ 25V, TANT		
C11	3000 PF	Q1	2N5305
C12,C13	0.1 UF	Q2	2N4403
C14	47 PF	Q3	2N3904 NPN
C15	100 PF	Q4	2N4403 PNP
C16	220 PF	Q5	2N3904 NPN
C17	4.7 UF @ 25V, TANT	Q6	2N4403 PNP
C18,C19	.01 UF	Q7	2N5305 NPN
C20,C21	0.1 UF	U1	MC 6803
C22	4.7 PF @ 25V, TANT	U2	LS373
C23	.01 UF	U3,U4	EPROM
C24	4700 UF @ 25V	U5	LS10
C25	100 PF	U6	2N429E-R
C26	100 PF	U7	LM 3900
C27	0.1 UF	U8	TDA 2002
C28	.01 UF	U9	MC 7805
C29	470 UF @ 6V	L1,L2,L3	10 OHM CHOKES
C30	1000 UF @ 16V	XU1	40 PIN SOCKET
C31	.33 UF	XU3,XU4	28 PIN SOCKET
C32	0.1 UF	J1	.045 PIN
C33	.05 UF	J2	.045 PIN
C34-C38	820 PF	TP1-TP5	TEST POINT
C39,C40	4.7 UF @ 25V TANT	LED 1	MVS254
C41,C42	.22 UF		
R1	560 OHM	HEATSINK P/O U8	6030B-TT
R2	47K OHM	HEATSINK P/O U9	6100B
R3	910 OHM	SCREW P/O U8,U9	SCREW 6-32
R4	5.6K OHM	NUT P/O U8,U9	NUT 6-32
R5	62K OHM	P/O U8,U9	INSULATOR
R6	10K OHM	SW1	SWITCH P.C.B.
R7	82K OHM	X1	3.579 MHZ
R8	10K OHM		
R9	47K OHM		
R10	100 OHM		
R11	82 OHM		
R12	9.1K OHM		
R13	7.5K OHM		
R14	39K OHM		
R15,R16	2.7K OHM		
R17	1K OHM		
R18,R19	3.3K OHM		
R20	10K OHM		
R21	16K OHM		
R22	2.7K OHM		
R23	68 OHM		
R24	180 OHM		
R25,R26	100K OHM		
R27	47K OHM		
R28	120 OHM		
R29	120K OHM		
R30	130K OHM		
R31	100K OHM		
R32	200K OHM		
R33	390K OHM		
R34	470K OHM		
R35	24K OHM		
R36	180K OHM		
R37	390K OHM		
R38	2.2 OHM		
R39	1 OHM		
R40	430 OHM		
R41	220 OHM		
R42-R46	470 OHM		
VR 1	1K POT		

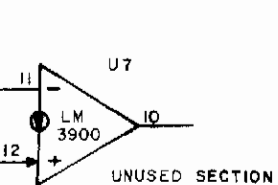
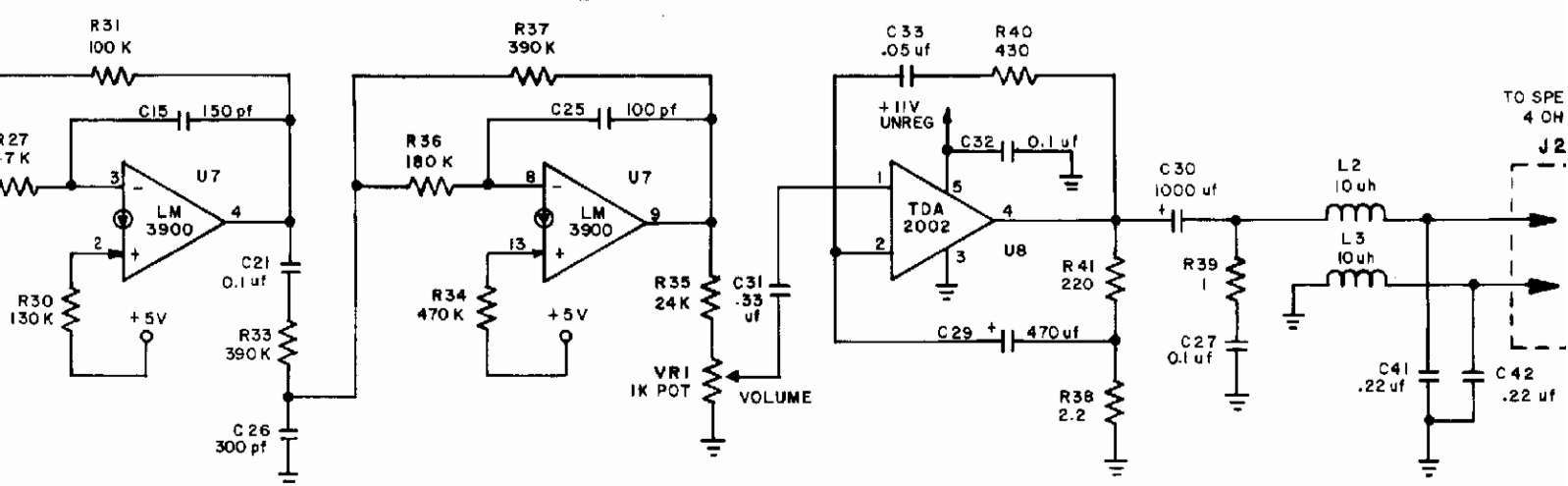
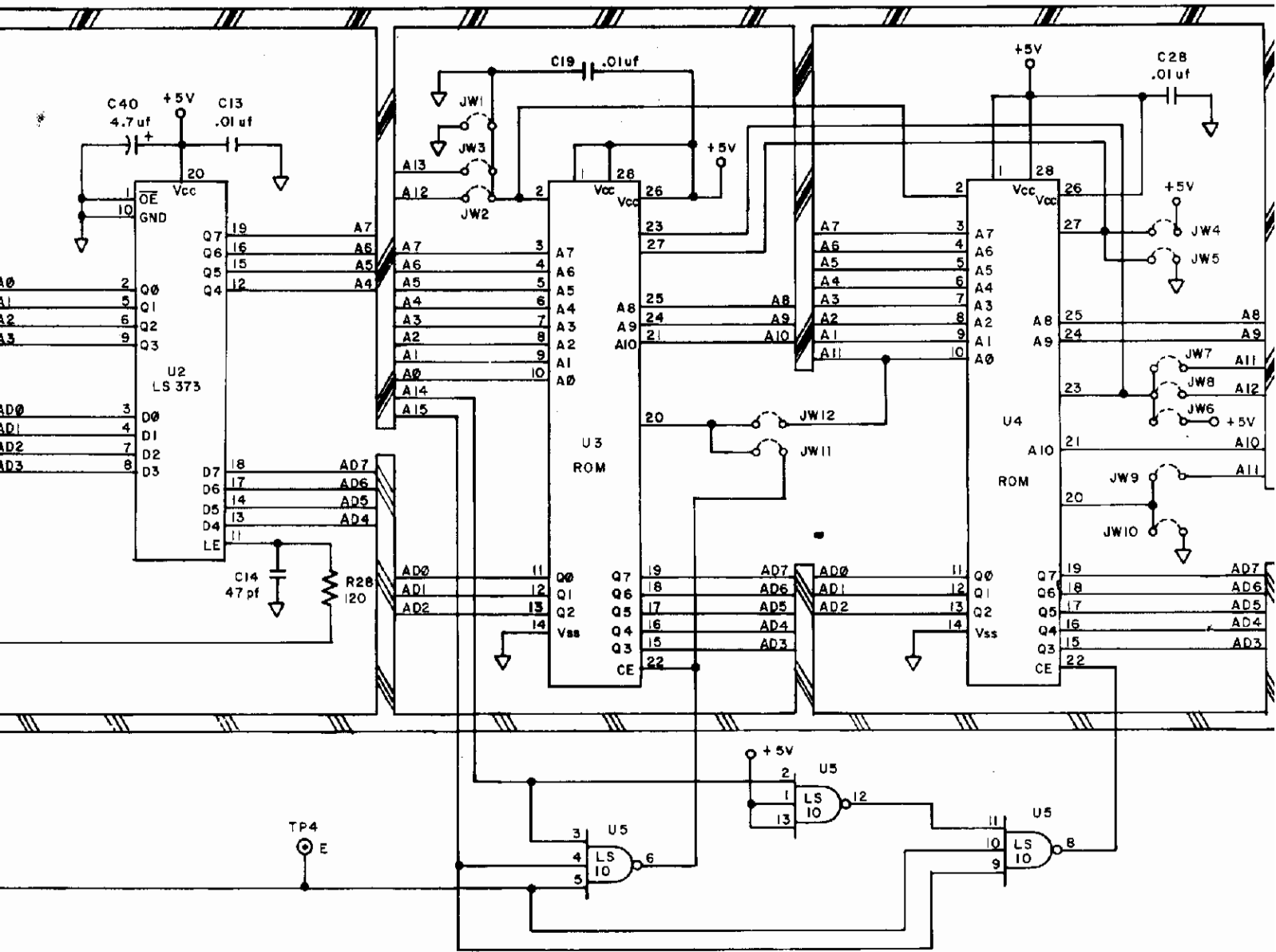


CROSS REFERENCE LIST

DESCRIPTION	QTY	DESIGNATION NO.	PART NOS.	DESCRIPTION	QTY	DESIGNATION NO.	PART NOS.
27 PF, 5%	2	C5, C6	0360-00800-0052	POT 1K	1	VR1	0360-00804-0003
47 PF	1	C14	0360-00800-0027				
100 PF	1	C25	0360-00800-0046	1N4606	3	D1-D3	103E-00002-0006
150 PF	1	C15	0360-00800-0053	1N4004	4	D4, D5, D7, D8	103E-00003-0005
220 PF	1	C16	0360-00800-0054	VR332	1	D6	0360-00801-0007
300 PF	1	C26	0360-00800-0055	1N9588 ZENER	1	D9	103E-00001-0002
820 PF	5	C34-C38	0360-00800-0004				
3000 PF	1	C11	0360-00800-0056				
.01 UF	9	C2, C3, C7-C9, C18, C19, C23, C28	0360-00800-0005	2N3904 NPN	2	Q3, Q5	104E-00001-0006
.05 UF	1	C33	0360-00800-0006	2N4403 PNP	3	Q2, Q4, Q6	104E-00002-0006
0.1 UF	6	C12, C13, C20, C21, C27, C32	0360-00800-0058	2N5305 9ARL NPN	2	Q1, Q7	104E-00001-0010
.22 UF	2	C41, C42	0360-00800-0057	74LS10	1	U5	0360-00803-0046
.33 UF	1	C31	0360-00800-0059	74LS373	1	U2	0360-00803-0059
4.7 UF @ 25V,	5	C10, C17, C22, C39, C40	0360-00800-0008	MC 6803, MPU	1	U1	0360-00803-0048
TANT		C1	0360-00800-0048	2N429E-8, DAC	1	U6	0360-00803-0049
6.8 UF @ 25V,	1			LM 3900, OP AMP	1	U7	0360-00803-0002
TANT				TDA 2002, AUD AMP	1	U8	0360-00803-0009
47 UF @ 16V	1	C4	0360-00800-0042	MC 7805, +5V REG.	1	U9	0360-00803-0050
470 UF @ 6V	1	C29	0360-00800-0021	INDUCTOR 10 UH	3	L1, L2, L3	0360-00804-0031
1000 UF @ 16V	1	C30	0360-00800-0044	28 PIN IC SOCKET	2	XU3, XU4	0360-00804-0028
4700 UF @ 25V	1	C24	0360-00800-0023	40 PIN IC SOCKET	1	XU1	0360-00804-0018
1 OHM	1	R39	100E-00005-0002	.045 SQ. PIN	15	J1	0017-00033-0480
2.2 OHM	1	R38	100E-00005-0003	.045 SQ. PIN	2	J2	0017-00033-0480
68 OHM	1	R23	100E-00005-0029	TEST POINTS	5	TP1-TP5	0017-00007-0131
82 OHM	1	R11	100E-00005-0031	LED MV5254	1	LED 1	0360-00804-0015
100 OHM	1	R10	100E-00005-0033	HEATSINK, 60306-TT	1	P/O U8	0360-00804-0010
120 OHM	1	R28	100E-00005-0035	HEATSINK, 6100B	1	P/O U9	0360-00804-0032
180 OHM	1	R24	100E-00005-0039	MUT 6 X 32	2	P/O U8, U9	0017-00103-0005
220 OHM	1	R41	100E-00005-0041	SCREW 6 X 32	2	P/O U8, U9	0017-00101-0339
430 OHM	1	R40	100E-00005-0050	INSULATOR, THERMAL	2	P/O U8, U9	0017-00042-0319
470 OHM	5	R42-R46	100E-00005-0051	SWITCH	1	SW1	0017-00032-0038
560 OHM	1	R1	100E-00005-0054	CRYSTAL, 3.579 MHZ	1	X1	0360-00804-0019
910 OHM	1	R3	100E-00005-0059	P.C.B.	1		A080-91603-B000
1K OHM	1	R17	100E-00005-0061				
2.7K OHM	2	R15, R16, R22	100E-00005-0071				
3.3K OHM	3	R18, R19	100E-00005-0074				
5.6K OHM	1	R4	100E-00005-0082				
7.5K OHM	1	R13	100E-00005-0085				
9.1K OHM	1	R12	100E-00005-0087				
10K OHM	3	R6, R8, R20	100E-00005-0088				
16K OHM	1	R21	100E-00005-0165				
24K OHM	1	R35	100E-00005-0097				
39K OHM	1	R14	100E-00005-0102				
47K OHM	3	R2, R9, R27	100E-00005-0104				
62K OHM	1	R5	100E-00005-0107				
82K OHM	1	R7	100E-00005-0112				
100K OHM	3	R25, R26, R31	100E-00005-0115				
120K OHM	1	R29	100E-00005-0118				
130K	1	R30	100E-00005-0119				
180K	1	R36	100E-00005-0122				
200K	1	R32	100E-00005-0123				
390K	2	R33, R37	100E-00005-0130				
470K	1	R34	100E-00005-0132				

PROJECT ENG D. MACDONALD		USED ON		REVISIONS	
DD NOT SCALE DRG		SCALE FULL		NO. REV'D 1 PER	
DIM. TOLERANCES UNLESS SPECIFIED		CHEAP SQUEAK PC BD. ASSY.		PART NO	
DATE 8/24/83		A080-91603-B000		M061 - 00114 - B044	
DRAWN BY RLW		CHECKED BY		FRANKLIN PK ILL	
DATE 8/24/83		DATE		MIDWAY MFG. CO.	





PROJECT ENG: D. MACDONALD		USED ON		REVISIONS	
DO NOT SCALE DWG		SCALE		NO. REQ'D	
DIM. TOLERANCES UNLESS SPECIFIED		FULL		1 PER	
CHEAP - SQUEAK		NO. REQ'D		1 PER	
SCHEMATIC DWG		NO. REQ'D		1 PER	
A082 - 91603 - B000		NO. REQ'D		1 PER	
DATE 8/22/83		PART NO.		M051 - 00114 -	
				FRANKLIN PK ILL	

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

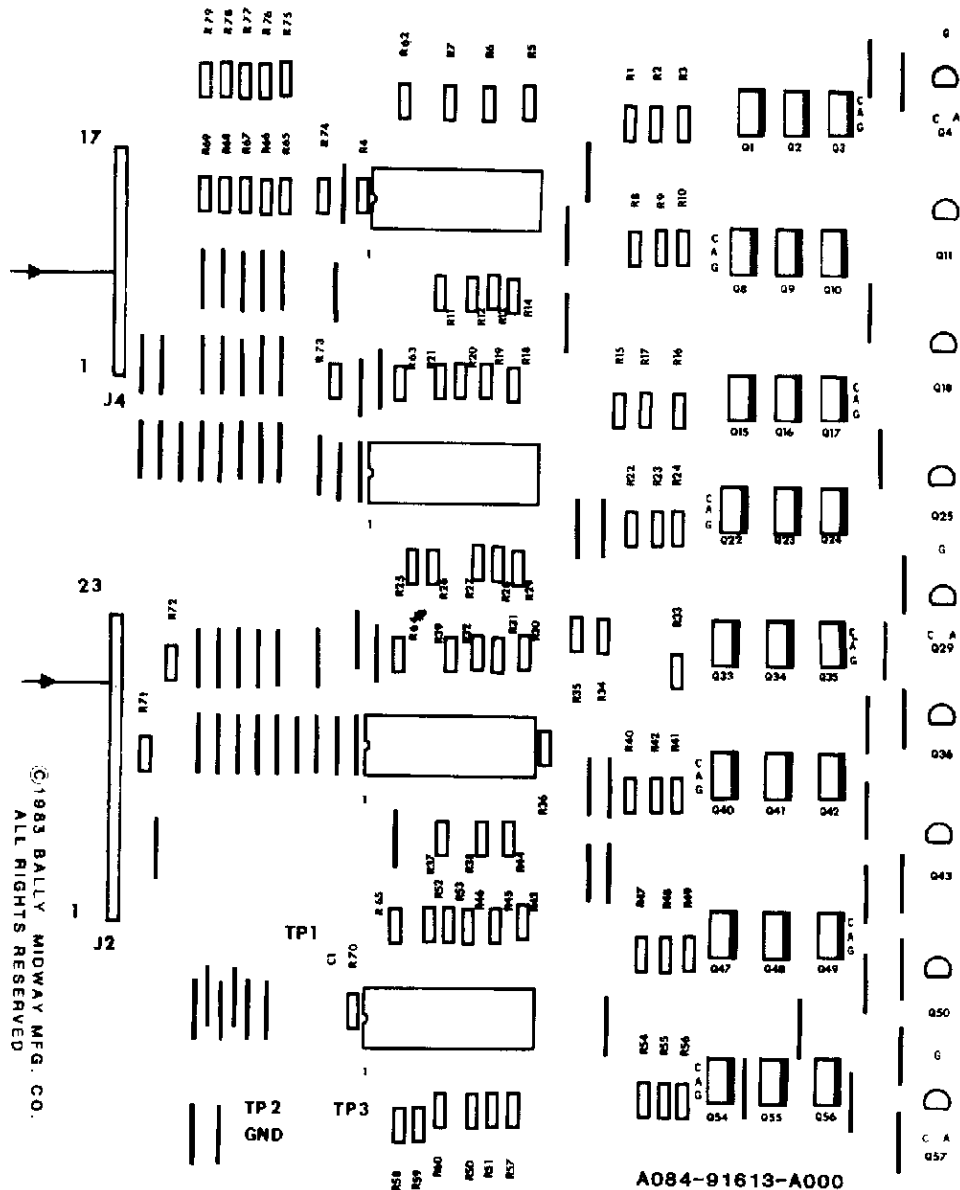
Q1-Q3 MCR106-1
Q4-Q7 2N5060
Q8-Q10 MCR106-1
Q11-Q14 2N5060
Q15-Q17 MCR106-1
Q18-Q21 2N5060
Q22-Q24 MCR106-1
Q25-Q32 2N5060
Q33-Q35 MCR106-1
Q36-Q39 2N5060
Q40-Q42 MCR106-1
Q43-Q46 2N5060
Q47-Q49 MCR106-1
Q50-Q53 2N5060
Q54-Q56 MCR106-1
Q57-Q60 2N5060

U1-U4 MC14514B

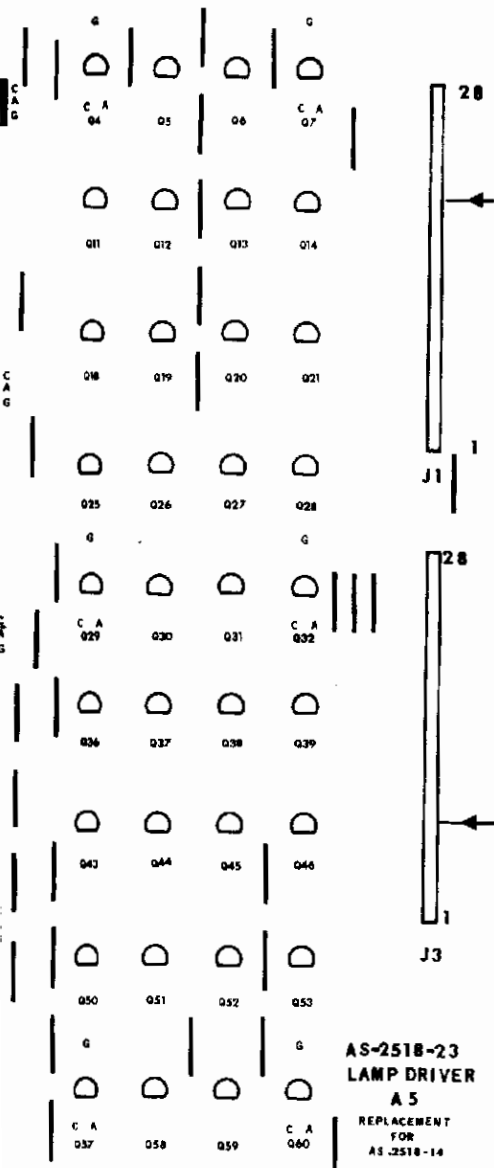
J1 28 PIN WAFER CONN.
J2 23 PIN WAFER CONN.
J3 28 PIN WAFER CONN.
J4 17 PIN WAFER CONN.

TP1-TP3 TEST CLIP
 LABEL
 JUMPER, 22 AWG
 P.C. BOARD

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PAT. PENDING



A084-91613-A000



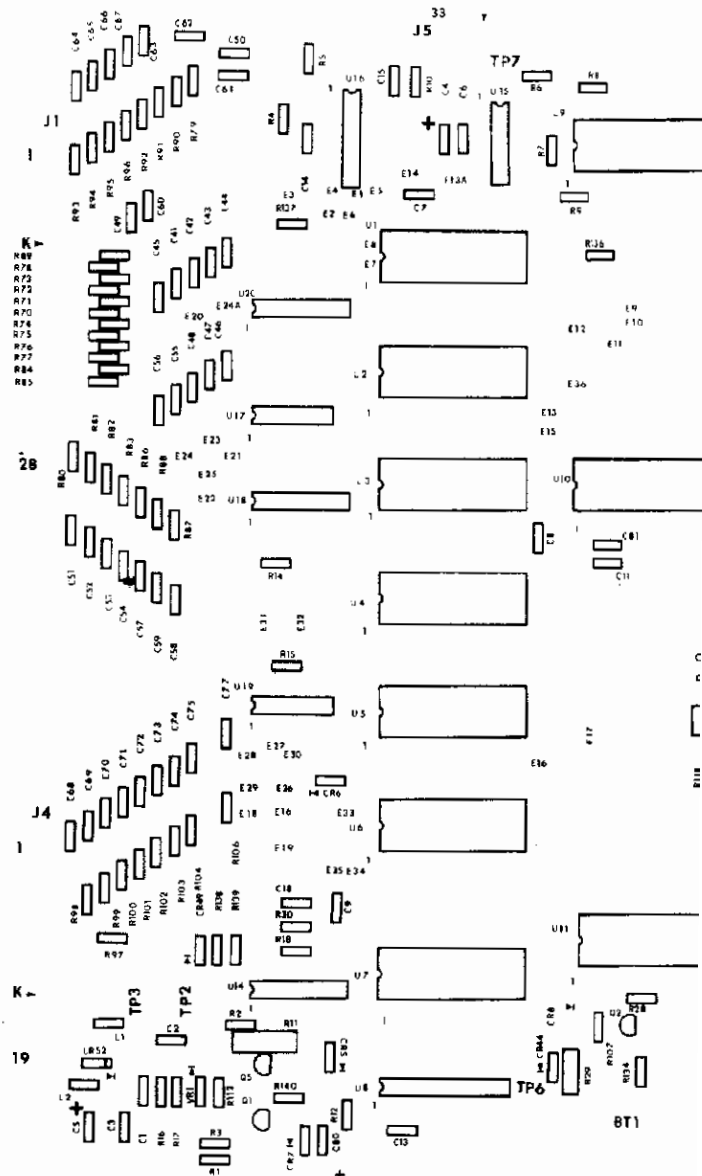
CROSS REFERENCE LIST

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	0151-00030-17XB
23 PIN WAFER CONN.	1	J2	E-00715-0014	0151-00030-23XB
28 PIN WAFER CONN.	2	J1, J3	E-00715-0004	0151-00030-28XB
TEST CLIP	3	TP1-TP3	P-05399	0017-00007-0131
LABEL	1			0017-00081-0097
JUMPER, 22 AWG	99		M-1777-126	0069-230XX-XBXX
P.C. BOARD	1		P-02948-0301	A080-91613-A000

PROJECT ENG:		USED ON		REVISIONS	
DO NOT SCALE DWG.		HEAT TREAT	SCALE FULL	Bally / MIDWAY MFG. CO. FRANKLIN PK. ILL.	
DIM TOLERANCES UNLESS SPECIFIED		NO. REQ'D	1 PER	PART NO.	
CONCENTRICITY F.R. 0.05 FRACTIONAL DECIMAL HOLE DIA. +.002 .000		LAMP DRIVER ASSY DWG A084-91613-A000		M051 - 00114 - A048	
DATE 05/31/83					

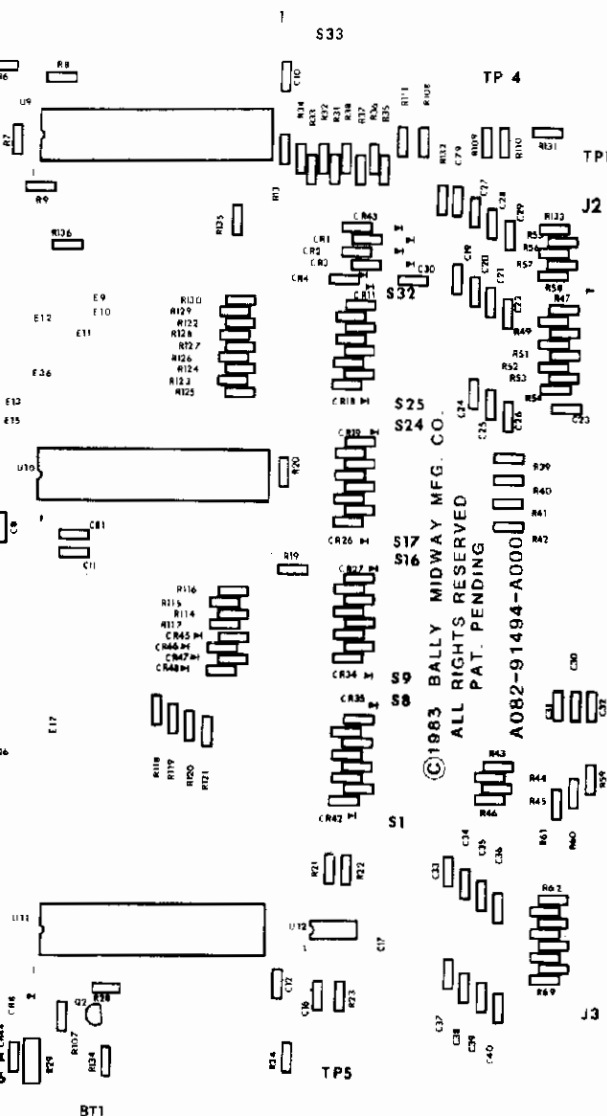
DESIGNATION LIST

DESIGNATION NO.	DESCRIPTION	DESIGNATION NO.	DESCRIPTION
C1,C2	820 PF	R137	150 OHM
C3	.01 MF	R138	47K OHM
C4,C5	4.7 MF 25V	R139	24K OHM
C6-C13	.01 MF	R140	20K OHM
C14,C15	470 PF 1KV		
C16	.1 MF	CR1-CR7	1N4148
C17	.01 MF	CR8	LED (GREEN)
C18	.05 MF	CR11-CR43	1N4148
C19-C31	390 PF	CR44	1N4004
C32	3000 PF	CR45-CR49,CR52	1N4148
C33-C40	390 PF		
C41-C67	470 PF	VR1	8.2V ZENER
C68-C75,C77	820 PF		
C78	390 PF	Q1,Q2	2N3904
C80,C81	.01 MF	Q5	2N4403
R1	8.2K OHM	U7	6810
R2	120K OHM	U8	5101
R3	8.2K OHM	U9	6800
R4	5.6K OHM	U10,U11	6820/21
R5	2K OHM	U12	555
R6,R7	1K OHM	U14	4049B
R8,R9	20 OHM	U15	3459
R10	5.6K OHM	U16	9602
R11	82 OHM 1W	U17	74L00
R12	270 OHM	U18	4049B
R13	3.3K OHM	U19	4011
R14	10K OHM	U20	4502
R15	30K OHM		
R16	2K OHM	BT1	BATT. 3.6VDC
R17	150K OHM		
R18	1.5M OHM	S1-S32	DIP SWITCH
R19	1.2K OHM	S33	PUSH BUTTON SW.
R20	3.3K OHM		
R21	24K OHM	U1,U2,U6,U7	24 PIN SOCKET
R22	4.7K OHM	U8	22 PIN SOCKET
R23	1K OHM	U9-U11	40 PIN SOCKET
R24,R28	8.2K OHM		
R29	470 OHM 1/2W	J1	28 PIN WAFER
R30	270K OHM	J2	15 PIN WAFER
R31-R38	3.3K OHM	J3	16 PIN WAFER
R39-R46	56K OHM	J4	19 PIN WAFER
R47-R58	1.2K OHM	P/O J5	16 PIN WAFER
R59	110 OHM	P/O J5	17 PIN WAFER
R60-R96	1.2K OHM		
R97-R100	470 OHM	TP1-TP7	TEST POINT LOOP
R101-R104	330 OHM		
R106	470 OHM		
R107	3.3K OHM	TY-WRAP	
R108-R111	56K OHM		
R112	1K OHM	JUMPER WIRE	
R114-R117	5.1K OHM	L1,L2	INDUCTOR, 22 MICRO H
R118-R121	3.6K OHM		
R122-R130	47K OHM		
R131	1K OHM		
R132	56K OHM		
R133	1.2K OHM		
R134	4.7K OHM		
R135	30K OHM		
R136	3.3K OHM		



PROJECT ENG:		USED ON	
DO NOT SCALE DWG		HEAT TREAT	SCALE FULL
DIM TOLERANCES UNLESS SPECIFIED		MAT'L	NO REQ'D IF
UNLESS SPECIFIED FOR THE MATERIAL		FINISH	
HOLE DIA. + .004 .000		DATE 04 05 '83	MPU CONTRC ASSEMBLY A082-9149

CROSS REFERENCE LIST



MPU ASSY

DESCRIPTION	QTY	DESIGNATION NO.	BALLY'S PART NOS.	MIDWAY'S PART NOS.
390 PF	23	C19-C31, C33-C40, C78	E-00586-0082	0360-00800-0001
470 PF	27	C14, C15, C41-C67	E-00586-0083	0360-00800-0002
820 PF	11	C1, C2, C68-C75, C77	E-00586-0084	0360-00800-0004
3000 PF	1	C32	E-00586-0077	0360-00800-0025
.01 MF	12	C3, C6-C13, C17, C80, C81	E-00586-0085	0360-00800-0005
.05 MF	1	C18	E-00586-0088	0360-00800-0006
.1 MF	1	C16	E-00586-0081	0360-00800-0007
4.7 MF 25V	2	C4, C5	E-00586-0073	0360-00800-0008
20 OHM	2	R8, R9	E-00105-0232	0062-06183-1XXX
82 OHM 1W	1	R11	E-00105-0261	0062-104F3-1XXX
110 OHM	1	R59	E-00105-0371	0062-11383-1XXX
150 OHM	1	R137	E-00105-0233	0062-12283-1XXX
270 OHM	1	R12	E-00105-0264	0062-13883-1XXX
330 OHM	4	R101-R104	E-00105-0219	0062-14483-1XXX
470 OHM 1/2W	1	R29	E-00105-0207	0062-15683-1XXX
470 OHM	5	R97-R100, R106	E-00105-0253	0062-15683-1XXX
1K OHM	5	R6, R7, R23, R112, R131	E-00105-0230	0062-17983-1XXX
1.2K OHM	51	R19, R47-R58, R60- R96, R133	E-00105-0222	0062-18383-1XXX
2K OHM	2	R5, R16	E-00105-0237	0062-19383-1XXX
3.3K OHM	12	R13, R20, R31-R38, R107, R136	E-00105-0238	0062-20383-1XXX
3.6K OHM	4	R118-R121	E-00105-0267	0062-20583-1XXX
4.7K OHM	2	R22, R134	E-00105-0239	0062-21183-1XXX
5.1K OHM	4	R114-R117	E-00105-0262	0062-21383-1XXX
5.6K OHM	2	R4, R10	E-00105-0215	0062-21583-1XXX
8.2K OHM	4	R1, R3, R24, R28	E-00105-0223	0062-22383-1XXX
10K OHM	1	R14	E-00105-0185	0062-22783-1XXX
20K OHM	1	R140	E-00105-0242	0062-24183-1XXX
24K OHM	2	R21, R139	E-00105-0268	0062-24583-1XXX
30K OHM	2	R15, R135	E-00105-0245	0062-24983-1XXX
47K OHM	10	R122-R130, R138	E-00105-0263	0062-25983-1XXX
56k ohm	13	R39-R46, R108-R111, R132	E-00105-0258	0062-26383-1XXX
120K OHM	1	R2	E-00105-0247	0062-27983-1XXX
150K OHM	1	R17	E-00105-0248	0062-28383-1XXX
270K OHM	1	R30	E-00105-0249	0062-29583-1XXX
1.5M OHM	1	R18	E-00105-0250	0062-33183-1XXX
1N4004	1	CR44	E-00587-0015	0360-00801-0002
1N4148	46	CR1-CR7, CR11-CR43, CR45-CR49, CR52	E-00587-0014	0360-00801-0003
LED (GREEN)	1	CR8	E-00679-0000	0360-00804-0015
8.2V ZENER	1	VR1	E-00598-0008	0360-00801-0001
2N3904	2	Q1, Q2	E-00585-0031	0360-00802-0003
2N4403	1	Q5	E-00585-0023	0360-00802-0004
555	1	U12	E-00620-0004	0360-00803-0001
3459	1	U15	E-00620-0034	0360-00803-0006
4011	1	U19	E-00620-0005	0360-00803-0010
4049B	2	U14, U18	E-00620-0033	0360-00803-0011
4502	1	U20	E-00620-0032	0360-00803-0005
5101	1	U8	E-00620-0042	0360-00803-0008
6800	1	U9	E-00620-0028	0360-00803-0015
681U	1	U7	E-00620-0030	0360-00803-0016
6820/21	2	U10, U11	E-00620-0029	0360-00803-0017
74L00	1	U17	E-00620-0041	0360-00803-0018
9602	1	U16	E-00620-0035	0360-00803-0019
BATTERY 3.6VDC	1	BT1	E-00628-0004	0017-00003-0172
DIP SWITCH	4	S1-S32	E-00677-0000	0360-00804-0012
PUSH BUTTON SW.	1	S33	E-00658-0001	0017-00032-0038
22 PIN SOCKET	1	U8	E-00712-0003	0360-00804-0014
24 PIN SOCKET	4	U1, U2, U6, U7	E-00712-0000	0360-00804-0017
40 PIN SOCKET	3	U9-U11	E-00712-0001	0360-00804-0018
15 PIN WAFER	1	J2	E-00766-0015	0151-00030-15X8
16 PIN WAFER	2	J3, P/O J5	E-00766-0016	0151-00030-16X8
17 PIN WAFER	1	P/O J5	E-00766-0017	0151-00030-17X8
19 PIN WAFER	1	J4	E-00766-0019	0151-00030-19X8
28 PIN WAFER	1	J1	E-00766-0028	0151-00030-28X8
TEST POINT LOOP	7	TP1-TP7	P-05399-0000	0017-00007-0131
TY-WRAP	1		E-00647-0004	0017-00042-0105
JUM. ER WIRE	3.5"		M-01777-0154	0017-00033-0341
INDUCTOR .22 MICRO H	2	L1, L2	E-00604-0003	0360-00804-0007
MPU CONTROL BD.	1		P-02948-0545	A080-91494-A000

USED ON		Bally / MIDWAY MFG. CO. FRANKLIN PK ILL
NO. REQ'D IPER		
MPU CONTROL BD. ASSEMBLY DWG. A082-91494-A000		PART NO. M051 - 00114 - A034

