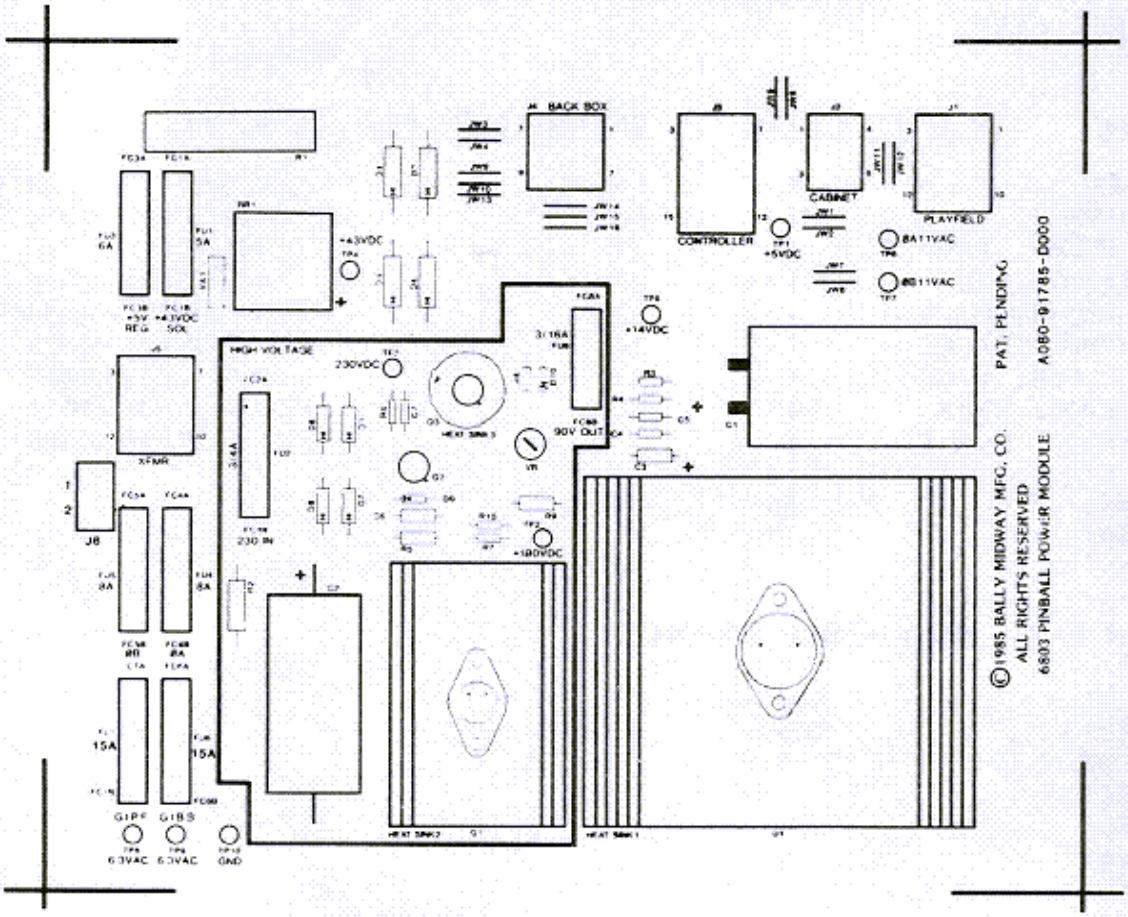
SECTION 2

Component Layouts, Schematics & Wiring Diagrams



DESIGNA

DESIGNA
C1
P/O C1
P/O C1
P/O C1
C2
P/O C2
C3
C4, C5
C6, C7
R1
R2
R3
R4
R5
R6
R7
R8
R9
R10
VR1
D1 - D4
D5 - D9
D10
BR1
P/O BR1
Q1
P/O Q1
P/O Q1
P/O Q1
P/O Q1
P/O Q1
P/O Q1
P/O Q1
P/O Q1
P/O Q1
P/O Q1
P/O Q1
Q2, Q3
P/O Q2,
P/O Q3
U1
P/O U1
P/O U1
P/O U1
P/O U1
P/O U1
P/O U1
VA1

THIS DWG. IS CONFIDENTIAL & PROPERTY OF MIDWAY MFG. CO.

DIM. TOLERANCES UNLESS OTHERWISE SPEC.			
CONCENTRICITY T.I.R.	.002	MIDWAY MFG. CO. FRANKLIN PK., IL. 60131 A BALLY CO	
FRACTIONAL	± 1/64	DRN. CL	DATE 04/08/86
DECIMAL	± .005		
HOLE DIA	+ .002 − .000	ASSY DRAWING 6803 PINBALL PWR MODULE A084-91785-D000	REVISIONS
ANGLE	± 1/2°		PART NO. M05 I-0-0-C-5-3-D-0-0-I
DO NOT SCALE DWG.			

6803 PINBALL POWER MODULE
A084-91785-D000
M051-00C53-D001

ION LIST

ION	DESCRIPTION	DESIGNATION	DESCRIPTION
	11,000uf 20V ELEC.	JW1 - JW16	ZERO OHM RES. JUMPER
	TY-WRAP	TP1 - TP10	TEST POINTS
	SOLDER LUG	F1*	5 AMP 3AG FUSE
	WIRE 20AWG	F2	3/4 AMP 3AG FUSE
	160uf 350V ELEC.	F3	6 AMP 3AG FUSE
	TY-WRAP	F4, F5	8 AMP 3AG FUSE
	2uf 25V ELEC.	F6, F7	15 AMP 3AG FUSE
	.1uf 25V CER.	F8	3/16 AMP 8AG FUSE
	.01uf 500V CER.	FC1A - FC3B, FC8A	FUSE CLIPS
	600 OHM 10W	FC8B	
	100K 1W 5%	FC4A - FC7B	FUSE CLIPS
	2.2 OHM 1/4W 5%	J1	12 PIN M-N-L CONN. FEMALE
	100 OHM 1/2W 5%	J2	6 PIN M-N-L CONN. MALE
	22K 1/2W 5%	J3	15 PIN M-N-L CONN. MALE
	100K 1/4W 5%	J4	9 PIN M-N-L CONN. MALE
	390 OHM 1/4W 5%	J5	12 PIN M-N-L CONN. MALE
	1.2K 1/4W 5%	J6	2 PIN M-N-L CONN. MALE
	82K 1/2W 5%	6803 POWER MODULE	P.C. BOARD
	8.2K 1/4W 5%		
	0 - 25K 1/4W POT.	4-23-86 REV. 1.0 FIXED R2, R6	
	MR751		
	IN4004		
	IN5275A ZENER		
	KBPC-35-02-W		
	BRIDGE SPACER		
	2N3584	* TWO FLIPPER GAMES ONLY - SEE SCHEMATIC	
	SHIELD		
	HEX SPACER		
	6-32 X 5 SCREW		
	6-32 X 12 SCREW		
	LOCKWASHER EXT.		
	LOCKWASHER INT.		
	FLAT WASHER		
	6-32 HEX NUT		
	LABEL - CAUTION HIGH VOLT.		
	HEATSINK 2		
	INSULATOR TO-66		
	2N3440		
3	INSULATOR TO-5		
	HEATSINK 3		
	78H05C REG.		
	6-32 X 12 SCREW		
	6-32 HEX NUT		
	LOCKWASHER EXT.		
	FLAT WASHER		
	HEATSINK 1		
	INSULATOR TO-3		
	VARISTOR		

6803 PINBALL POWER MODULE
A084-91785-D000
M051-00C53-D001

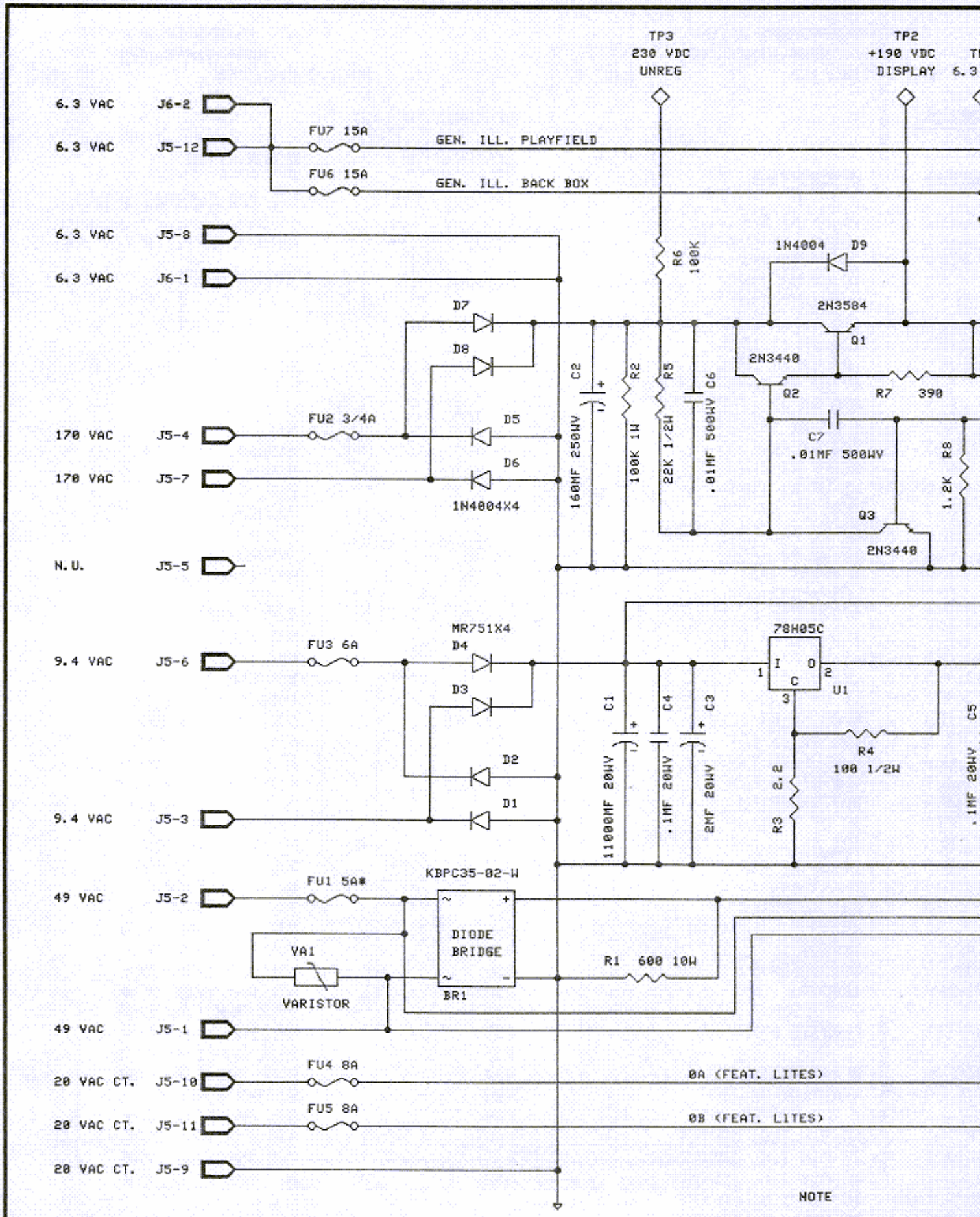
CROSS REFERENCE LIST

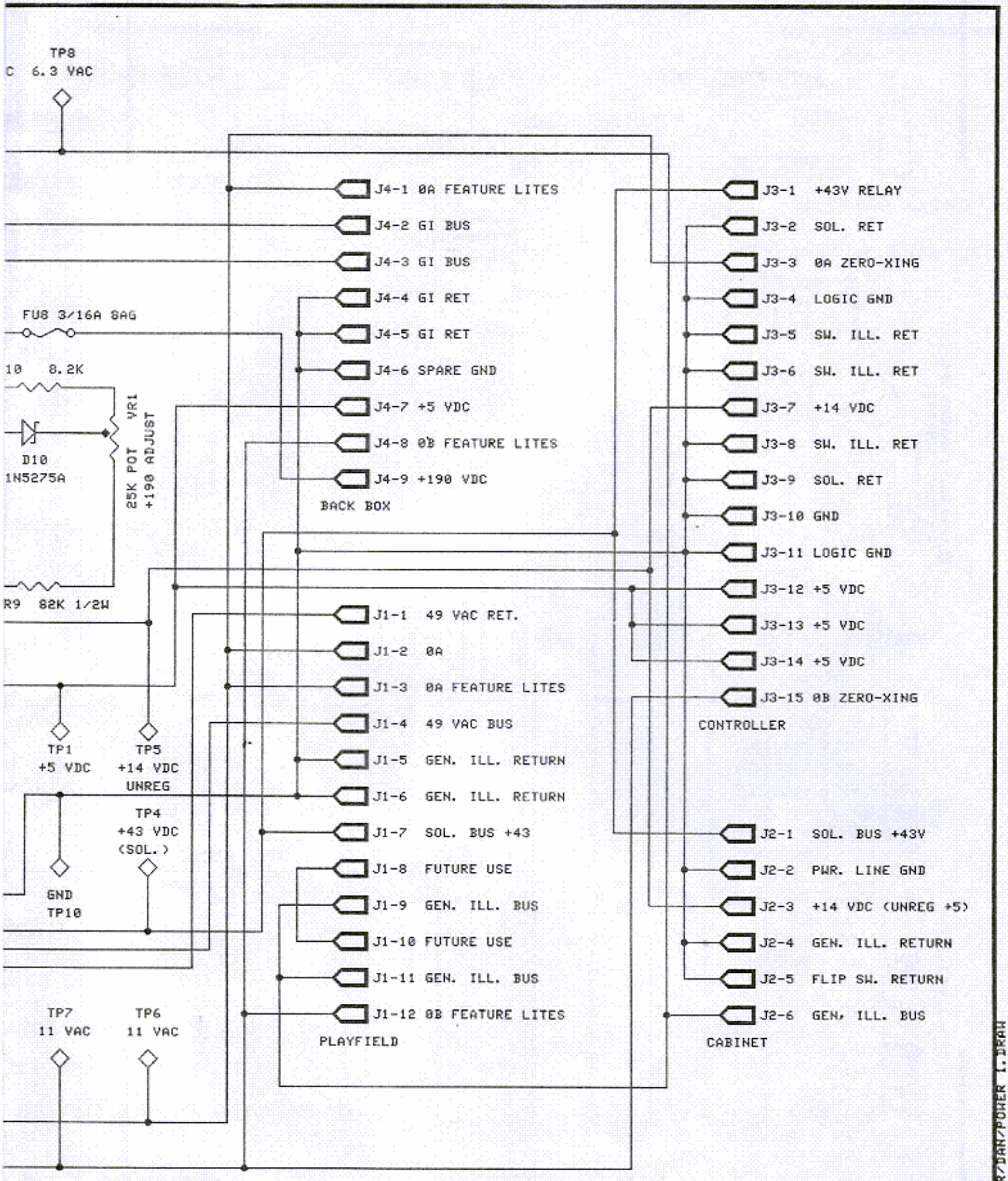
DESCRIPTION	QTY.	DESIGNATION NO.	PART NOS.
.01UF 500V CER.	2	C6,C7	0360-00800-0013
.1UF 25V CER.	2	C4,C5	0360-00800-0026
2UF 25V ELEC.	1	C3	0360-00800-0019
160UF 350V ELEC.	1	C2	0360-00800-0020
11,000UF 20V ELEC.	1	C1	0360-00800-0024
2.2 OHM 1/4W 5%	1	R3	100E-00005-0003
100 OHM 1/2W 5%	1	R4	100E-00006-0021
390 OHM 1/4W 5%	1	R7	100E-00005-0049
600 OHM 10W 10%	1	R1	100E-00002-0049
1.2K 1/4W 5%	1	R8	100E-00005-0063
8.2K 1/4W 5%	1	R10	100E-00005-0086
22K 1/2W 5%	1	R5	100E-00006-0065
82K 1/2W 5%	1	R9	100E-00006-0072
100K 1/4W 5%	1	R6	100E-00005-0115
100K 1W 5%	1	R2	100E-00007-0037
0-25K 1/4W POT	1	VR1	0360-00804-0004
MR 751	4	D1-D4	103E-00003-0016
1N4004	5	D5-D9	103E-00003-0005
1N5275	1	D10	103E-00001-0027
KBPC-35-02-W	1	BR1	103E-00005-0005
2N3440	2	Q2,Q3	104E-00003-0002
2N3584	1	Q1	104E-00005-0002
78H05C REG	1	U1	0360-00803-0021
VARISTOR METAL OXIDE 60V	1	VA1	115E-00001-0002
TY-WRAP	4	P/O C1,C2	0017-00042-0048
ZERO OHM RES. JUMPER	16	JW1-JW16	117E-00001-0001
TEST POINTS	10	TP1-TP10	0017-00007-0131
SOLDER LUG	2	P/O C1	0017-00021-0257
JUMPER WIRE 20AWG	2	P/O C1	0017-00033-0448
INSULATOR TO-3	1	P/O U1	0017-00042-0119
INSULATOR TO-5	2	P/O Q2,Q3	0017-00042-0151
INSULATOR TO-66	1	P/O Q1	0017-00042-0158
HEX SPACER	2	P/O Q1	0017-00042-0248
SHIELD	1	P/O Q1	0365-00952-0000
HEATSINK 1	1	P/O U1	112E-00001-0003
HEATSINK 2	1	P/O Q1	112E-00001-0002
HEATSINK 3	1	P/O Q3	112E-00001-0004
BRIDGE SPACER	1	P/O BR1	118E-00001-0001
6-32 X 12 SCREW	4	P/O Q1,U1	0017-00101-0132
6-32 X 5 SCREW	2	P/O Q1	0017-00101-0555
6-32 HEX NUT	4	P/O Q1,U1	0017-00103-0005
LOCKWASHER INT.	4	P/O Q1,	0017-00104-0008
LOCKWASHER EXT.	4	P/O Q1,U1	0017-00104-0009
FLAT WASHER	4	P/O Q1,U1	0017-00104-0106
FUSE CLIP	8	FC1A-FC3B, FC8A,FC8B	0017-00071-0033
FUSE CLIP	8	FC4A-FC7A	0017-00071-0034
3/16 AMP 8AG FUSE	1	F8	0017-00003-0206
3/4 AMP 3AG FUSE	1	F2	0017-00003-0010
5 AMP 3AG FUSE	1	F1*	0017-00003-0175
6 AMP 3AG FUSE	1	F3	0017-00003-0008

CROSS REFERENCE LIST

DESCRIPTION	QTY.	DESIGNATION NO.	PART NOS.
8 AMP 3AG FUSE	2	F4,F5	0017-00003-0387
15 AMP 3AG FUSE	2	F6,F7	0017-00003-0011
12 PIN M-N-L CONN. FEMALE	1	J1	0017-00021-0532
6 PIN M-N-L CONN. MALE	1	J2	0017-00021-0424
15 PIN M-N-L CONN. MALE	1	J3	0017-00021-0434
9 PIN M-N-L CONN. MALE	1	J4	0017-00021-0425
12 PIN M-N-L CONN. MALE	1	J5	0017-00021-0426
2 PIN M-N-L CONN. MALE	1	J6	0017-00021-0488
6803 POWER MODULE P.C.B.	1		A080-91785-D000

* TWO FLIPPER GAMES ONLY - SEE SCHEMATIC


TP3
230 VDC
UNREG
TP2
+190 VDC
DISPLAY
6.3 VAC J6-2
6.3 VAC J5-12
FU7 15A
GEN. ILL. PLAYFIELD
FU6 15A
GEN. ILL. BACK BOX
6.3 VAC J5-8
6.3 VAC J6-1
R6 100K
1N4004 D9
2N3584
Q1
2N3440
Q2
R7 390
D7
D8
C2 160MF 250WV
R2 100K 1W
R5 22K 1/2W
C6 .01MF 500WV
C7 .01MF 500WV
R8 1.2K
Q3
2N3440
170 VAC J5-4
170 VAC J5-7
FU2 3/4A
D5
D6
1N4004X4
N.U. J5-5
MR751X4
D4
D3
D2
D1
9.4 VAC J5-6
9.4 VAC J5-3
FU3 6A
78H05C
U1
C1 11000MF 20WV
C4 .1MF 20WV
C3 2MF 20WV
R3 2.2
R4 100 1/2W
C5 .1MF 20WV
49 VAC J5-2
49 VAC J5-1
FU1 5A*
KBPC35-02-W
DIODE BRIDGE
BR1
VA1
VARISTOR
R1 600 10W
20 VAC CT. J5-10
20 VAC CT. J5-11
20 VAC CT. J5-9
FU4 8A
FU5 8A
0A (FEAT. LITES)
0B (FEAT. LITES)
NOTE
* WHEN 3FLIPPERS ARE
WHEN 4FLIPPERS ARE USE

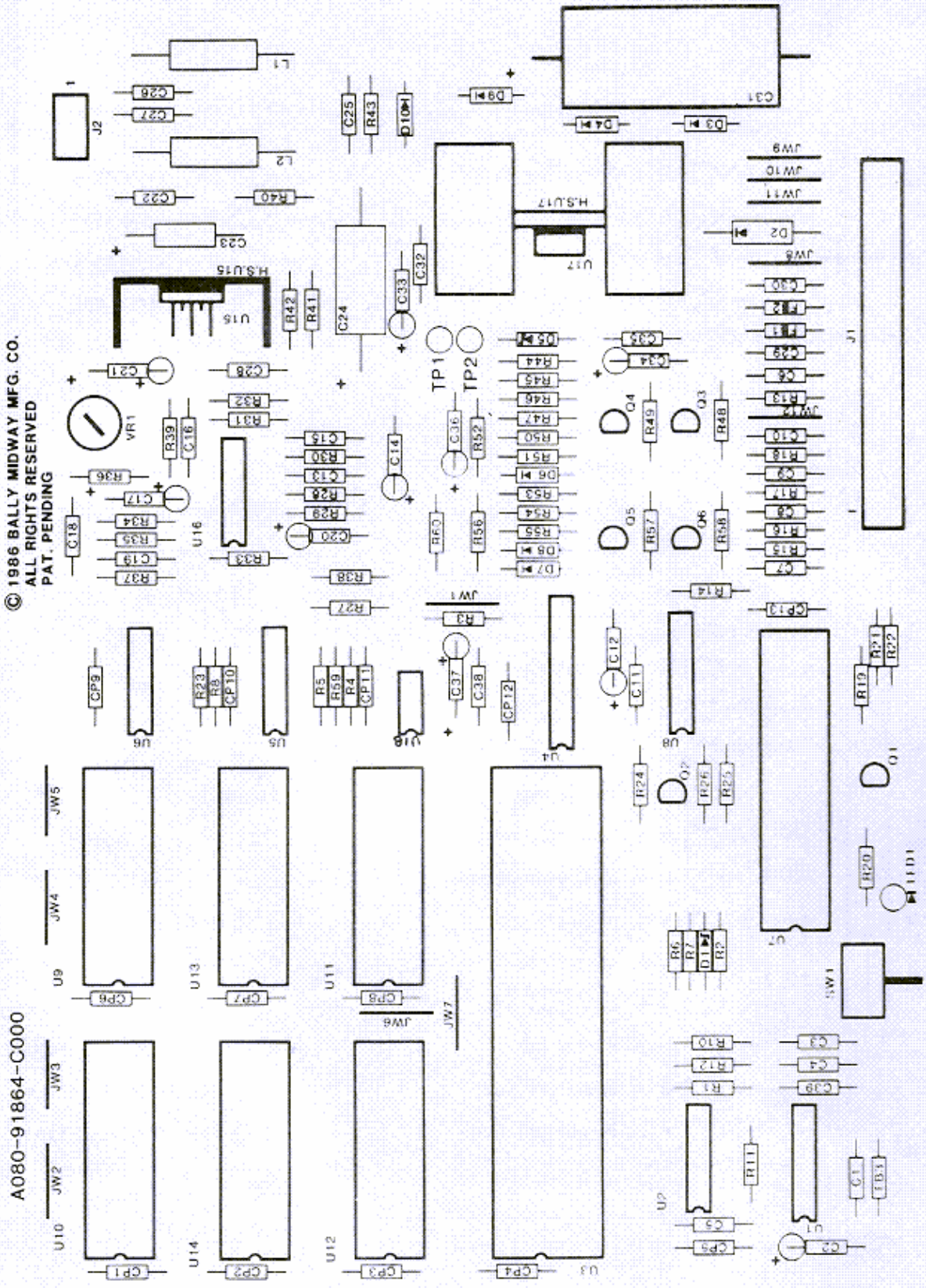


8/14/86 REV 1 CHANGED C6, C7 TO .01 UF. CMM

D FU1 SHOULD BE 6AMP
FU1 SHOULD BE 7AMP

NOTES: R. KOHAN	BALLY MIDWAY MFG. CO.
1PER	6803 PINBALL PWR MODULE
03/11/86	SCHEMATIC DRAWING
	A084-91785-D000
	M051-00C53-D002
	SHEET 1 OF 1 | REV

86 09:32 /USER/DAN/POWER 1.DRAW



DESIGNATIO

DESIGNATIO

CP1,CP2
CP3-CP13
C1
C2
C3-C5
C6
C7-C10
C11
C12
C13
C14
C15
C16
C17
C18
C19
C20
C21
C22
C23
C24
C25
C26,C27
C28-C30
C31
C32
C33,C34
C35
C36
C37
C38
C39

D1
D2
D3,D4
D5-D8
D9,D10

FB1-FB3

HS U15
HS U17

ICS U3
ICS U4
ICS U7
ICS U8
ICS U9-U14

7/15/86	REL FOR PRODUCTION	CM1
	REVISIONS	

USED ON Pinball

SCALE

NO. REQ'D

Bally / MIDWAY MFG. CO.
FRANKLIN PK. ILL.

ASSEMBLY DRAWING
SOUNDS DELUXE P.C.BD.
A084-91864-C000

PART NO.
M051-00114-C153

LIST

DESCRIPTION
.1 UF AX CER
.01 UF AX CER
.1 UF AX CER
10 UF RD TANT
NOT INSERTED
470 PF AX CER
100 PF AX CER
.01 UF AX CER
47 UF AX ELEC
470 PF AX CER
1 UF AX TANT
.01 UF AX CER
68 PF AX CER
.1 UF AX TANT
.001 UF AX CER
82 PF AX CER
10 UF AX TANT
1 UF AX TANT
.05 UF RD CER
470 UF AX ELEC
1000 UF AX ELEC
.1 UF AX CER
.22 UF AX CER
.1 UF AX CER
4700 UF AX ELEC
.01 UF AX CER
4.7 UF RD TANT
.01 UF AX CER
NOT INSERTED
10 UF AX TANT
.01 UF AX CER
.1 UF AX CER
NOT INSERTED
VR330
1N4004
NOT INSERTED
1N4004
FERRITE BEAD
HEATSINK TO-220
HEATSINK TO-220
64 PIN I.C. SOCKET
20 PIN I.C. SOCKET
40 PIN I.C. SOCKET
16 PIN I.C. SOCKET
28 PIN I.C. SOCKET

SOUNDS DELUXE
A084-91864-C000
M051-00114-C154 Rev. 4

DESIGNATION LIST

DESIGNATION	DESCRIPTION
INS U15, INS U17	SIL PAD THERMAL WASHER
J1,J2	AUTO INSERT PIN TIN .045 SQ.
JW1-JW12	JUMPER WIRE
L1,L2	10 UH INDUCTOR
LED 1	GREEN LED
MH U15	SCREW, 6-32
MH U15	NUT, 6-32
MH U15	WASHER, #6 STAR
MH U17	SCREW, 4-40
MH U17	NUT, 4-40
MH U17	WASHER, #4 STAR
Q1,Q2	2N5305
Q3-Q6	NOT INSERTED
R1-R8	4.7K OHM 1/4W CRBN
R9	NOT USED
R10-R12	NOT INSERTED
R13	10K OHM 1/4W CRBN
R14	100K OHM 1/4W CRBN
R15-R18	10K OHM 1/4W CRBN
R19	47K OHM 1/4W CRBN
R20	100 OHM 1/4W CRBN
R21-R23	4.7K OHM 1/4W CRBN
R24	2.7K OHM 1/4W CRBN
R25	180 OHM 1/4W CRBN
R26	68 OHM 1/4W CRBN
R27	62K OHM 1/4W CRBN
R28	120K OHM 1/4W CRBN
R29	75K OHM 1/4W CRBN
R30	33K OHM 1/4W CRBN
R31	18K OHM 1/4W CRBN
R32	33K OHM 1/4W CRBN
R33	47K OHM 1/4W CRBN
R34	150K OHM 1/4W CRBN
R35	82K OHM 1/4W CRBN
R36	150K OHM 1/4W CRBN
R37	200K OHM 1/4W CRBN
R38	1K OHM 1/4W CRBN
R39	33K OHM 1/4W CRBN
R40	430 OHM 1/4W CRBN
R41	220 OHM 1/4W CRBN
R42	2.2 OHM 1/4W CRBN

SOUNDS DELUXE
A084-91864-C000
M051-00114-C154 Rev. 4

DESIGNATION LIST

DESIGNATION	DESCRIPTION
R43	1 OHM 1/4W CRBN
R44-R58	NOT INSERTED
R59	4.7K OHM 1/4W CRBN
R60	10K OHM 1/4W CRBN
SW1	PC MTG. SWITCH
TP1,TP2	TEST POINT
U1	16 MHZ COSC
U2	74LS74
U3	MC68000G8 CPU
U4	PAL16L8A-2 SD00R0
U5	74LS05
U6	74F32
U7	MC6821
U8	AD7533 DAC
U9,U10	RAM 2K X 8
U11-U14	ROM/EPROM
U15	TDA2002
U16	LM3900
U17	MC7805 REG.
U18	TL7705
VR1	10K POT.

CROSS REFERENCE

DESCRIPTION
68 PF AX CER 5%
82 PF AX CER 5%
100 PF AX CER
470 PF AX CER 10%
.001 UF AX CER 10
.01 UF AX CER 10%
.01 UF AX CER
.05 UF RD CER
.1 UF AX CER
.22 UF AX CER
1 UF AX TANT
4.7 UF RD TANT
10 UF AX TANT
47 UF AX ELEC
470 UF AX ELEC
1000 UF AX ELEC
4700 UF AX ELEC
1 OHM 1/4W CRBN
2.2 OHM 1/4W CRBN
68 OHM 1/4W CRBN
100 OHM 1/4W CRBN
180 OHM 1/4W CRBN
220 OHM 1/4W CRBN
430 OHM 1/4W CRBN
1K OHM 1/4W CRBN
2.7K OHM 1/4W CRBN
4.7K OHM 1/4W CRBN
10K OHM 1/4W CRBN
18K OHM 1/4W CRBN
33K OHM 1/4W CRBN
47K OHM 1/4W CRBN
62K OHM 1/4W CRBN
75K OHM 1/4W CRBN
82K OHM 1/4W CRBN
100K OHM 1/4W CRBN
120K OHM 1/4W CRBN
150K OHM 1/4W CRBN
200K OHM 1/4W CRBN
10K POT
1N4004
VR330

SOUNDS DELUXE
A084-91864-C000
M051-00114-C154 Rev. 4

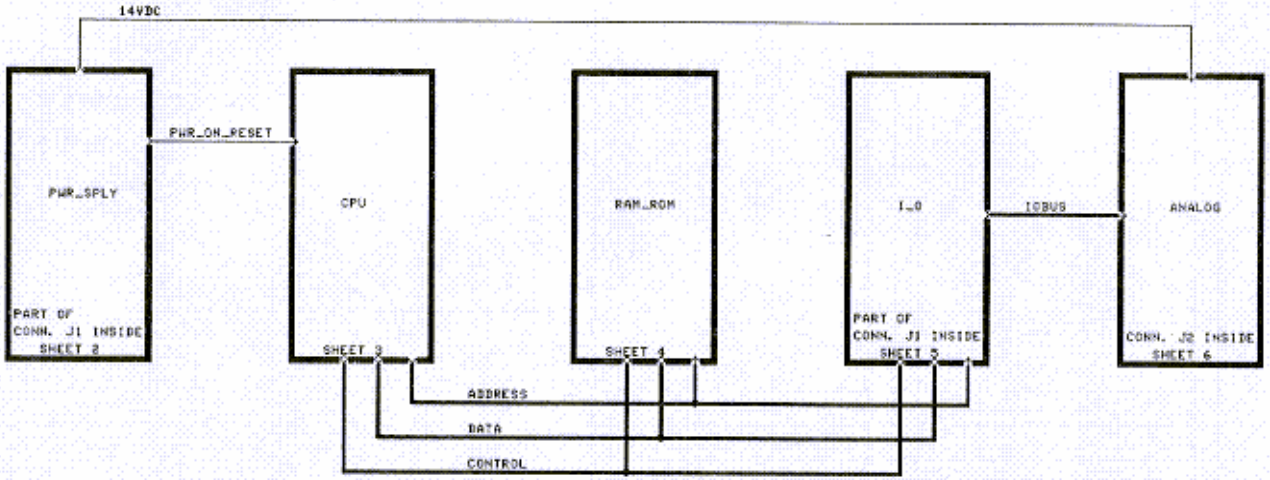
	QTY.	DESIGNATION	PART NUMBER
	1	C16	0360-00800-0028
	1	C19	0E47-00800-0002
	4	C7-C10	0360-00800-0046
0%	2	C6,C13	0307-00800-0008
10%	1	C18	0E47-00800-0003
0%	1	C15	0E47-00800-0001
	15	CP3-CP13,C11,C32 C35,C38	0360-00800-0005
	1	C22	0360-00800-0006
	8	CP1,CP2,C1,C25, C28-C30,C39	0360-00800-0058
	2	C26,C27	0360-00800-0057
	3	C14,C17,C21	0986-00800-1400
	2	C33,C34	0360-00800-0008
	3	C2,C20,C37	0986-00800-0700
	1	C12	0360-00800-0042
	1	C23	0360-00800-0021
	1	C24	0360-00800-0044
	1	C31	0360-00800-0023
	1	R43	100E-00005-0002
BN	1	R42	100E-00005-0003
N	1	R26	100E-00005-0029
BN	1	R20	100E-00005-0033
BN	1	R25	100E-00005-0039
BN	1	R41	100E-00005-0041
BN	1	R40	100E-00005-0050
N	1	R38	100E-00005-0061
RBN	1	R24	100E-00005-0071
RBN	12	R1-R8,R21-R23,R59	100E-00005-0079
BN	6	R13,R15-R18,R60	100E-00005-0088
BN	1	R31	100E-00005-0093
BN	3	R30,R32,R39	100E-00005-0100
BN	2	R19,R33	100E-00005-0104
BN	1	R27	100E-00005-0107
BN	1	R29	100E-00005-0110
BN	1	R35	100E-00005-0112
RBN	1	R14	100E-00005-0115
RBN	1	R28	100E-00005-0118
RBN	2	R34,R36	100E-00005-0120
RBN	1	R37	100E-00005-0123
	1	VR1	0360-00804-0024
	4	D3,D4,D9,D10	103E-00003-0005
	1	D2	0360-00801-0007

SOUNDS DELUXE
A084-91864-C000
M051-00114-C154

CROSS REFERENCE

DESCRIPTION	QTY.	DESIGNATION	PART NUMBER
2N5305	2	Q1,Q2	0360-00802-0012
74F32	1	U6	0304-00803-0059
74LS05	1	U5	0E47-00803-0002
74LS74	1	U2	0304-00803-0058
AD7533 DAC	1	U8	0304-00803-0055
16 MHZ COSC	1	U1	0304-00804-0008
LM3900	1	U16	0360-00803-0002
MC6821	1	U7	0304-00803-0054
MC68000 G8 CPU	1	U3	
MC7805 REG	1	U17	0360-00803-0050
PAL16L8A-2 SD00R0	1	U4	0E47-00803-0001
RAM 2K X 8	2	U9,U10	0E47-00803-0003
TDA2002	1	U15	0360-00803-0009
TL7705AC	1	U18	0066-447RX-XXCX
ROM/EPROM	4	U11-U14	SEE ROM/EPROM SHEET
FERRITE BEAD	3	FB1-FB3	0316-00804-0002
10 UH INDUCTOR	2	L1,L2	0360-00804-0031
16 PIN I.C. SOCKET	1	ICS U8	110E-00001-0003
20 PIN I.C. SOCKET	1	ICS U4	110E-00001-0005
28 PIN I.C. SOCKET	6	ICS U9-ICS U14	110E-00001-0010
40 PIN I.C. SOCKET	1	ICS U7	110E-00001-0011
64 PIN I.C. SOCKET	1	ICS U3	110E-00001-0016
HEATSINK TO-220	1	HS U15	112E-00001-0011
HEATSINK TO-220	1	HS U17	0E47-00804-0001
SIL PAD THERMAL WASHER	2	INS U15, INS U17	0017-00042-0319
SCREW, 6-32	1	MH U15	0017-00101-0339
NUT, 6-32	1	MH U15	0017-00103-0005
WASHER, #6 STAR	1	MH U15	0017-00104-0009
SCREW, 4-40	1	MH U17	0017-00101-0731
NUT, 4-40	1	MH U17	0017-00103-0002
WASHER, #4 STAR	1	MH U17	0017-00104-0071
AUTO INSERT PIN TIN .045 SQ.	16	J1,J2	0304-00804-0010
JUMPER WIRE	12	JW1-JW12	117E-00001-0003
GREEN LED	1	LED 1	119E-00001-0001
TEST POINT	2	TP1,TP2	0017-00007-0131
PC MTG. SWITCH	1	SW1	0986-00804-3100
PC BOARD	1	--	A080-91864-C000

8/01/86 Rev. 1 - Changed Filter Values, C13,C15,C16,C18,C19,P39 CMM
8/05/86 Rev. 2 - Removed D1 CMM.
8/11/86 Rev. 3 - Added CP11-CP13 CMM.
8/15/86 Rev. 4 - Added ICS U13, ICS U14. Fixed Desig. list U5, U6.
Corrected qty. of Ferrite Bead.

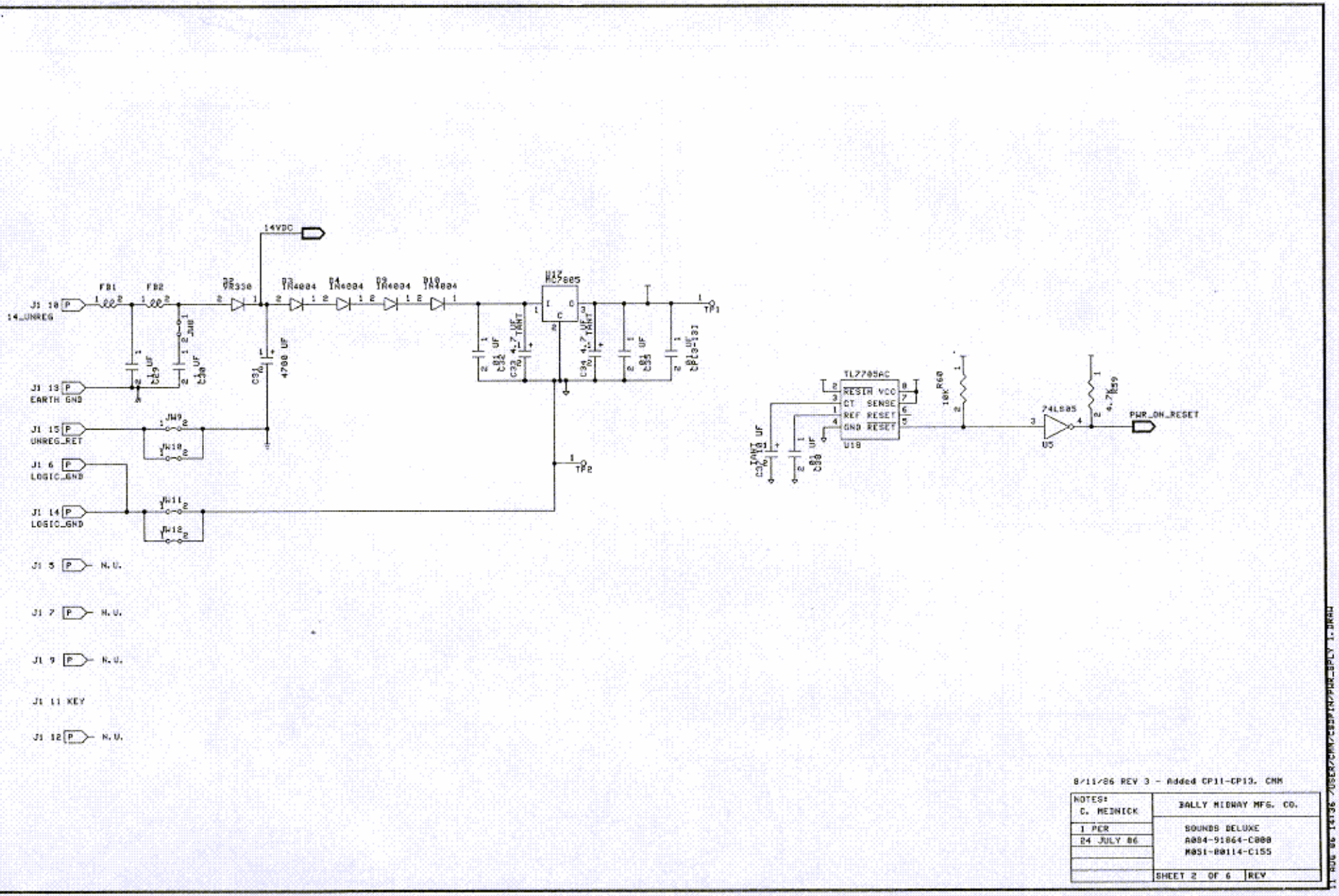


8/11/86 REV 3 - Changed Page 2. CMM
8/4/86 REV 2 - Changed Page 3. CMM
8/1/86 REV 1 - Changed Page 6

NOTES: C. MEDNICK	BALLY MIDWAY MFG. CO.
1 PER	SOUNDS DELUXE A034-91864-C000 M0S1-00114-C155
24 JULY 86	
	SHEET 1 OF 6 REV

LAST USED: C39,CP13,D10,F33,J8,JN12,L2,R60,SW1,TP2,LED1,VR1
NOT INSERTED: C9-C5,C36,D1,D5-D8,Q3-Q6,R10-R12,R44-R50
NOT USED: R9

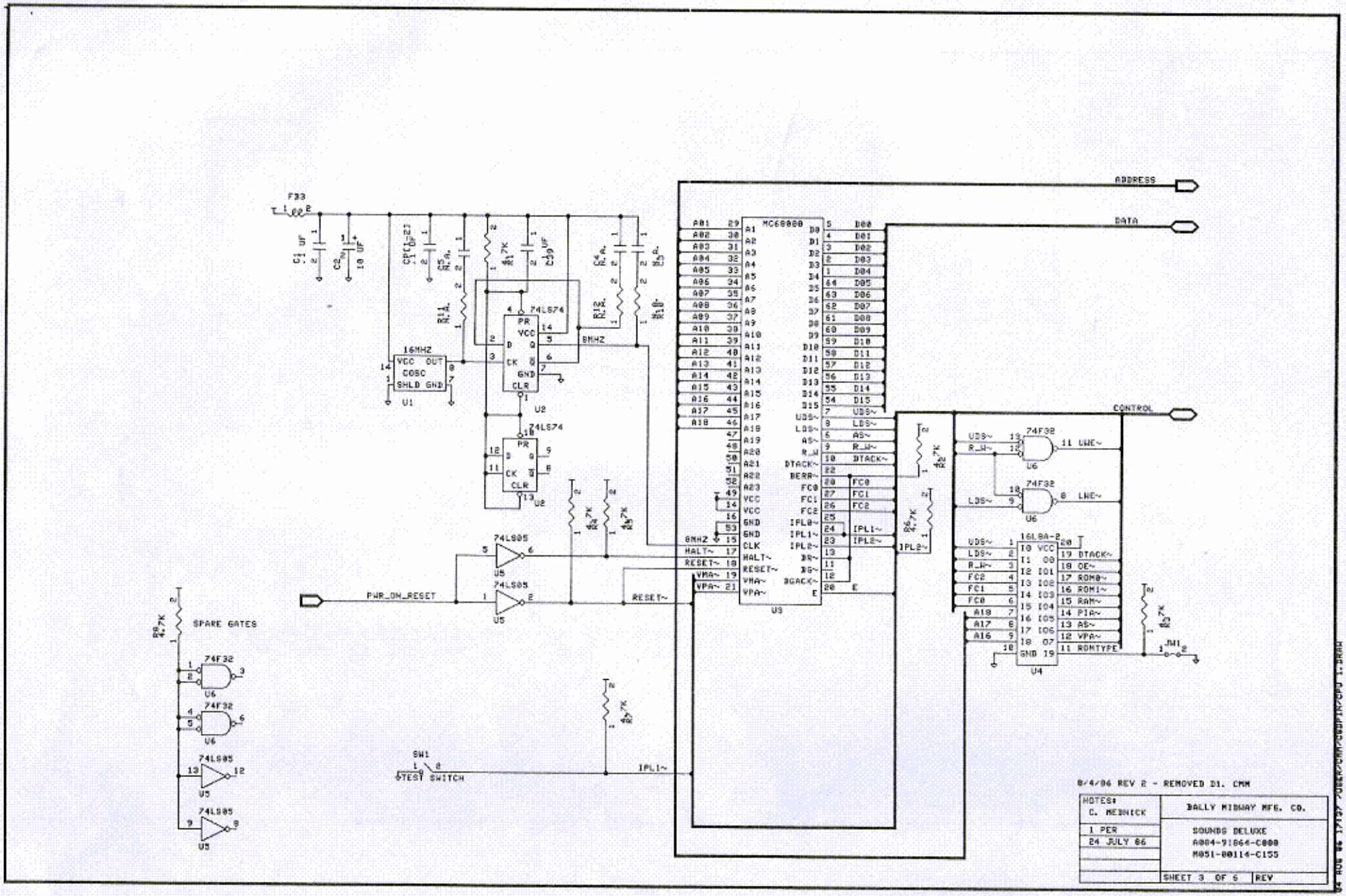
11 AUG 86 14:43 /USER2/CMM/CSDPLN.1.SCH

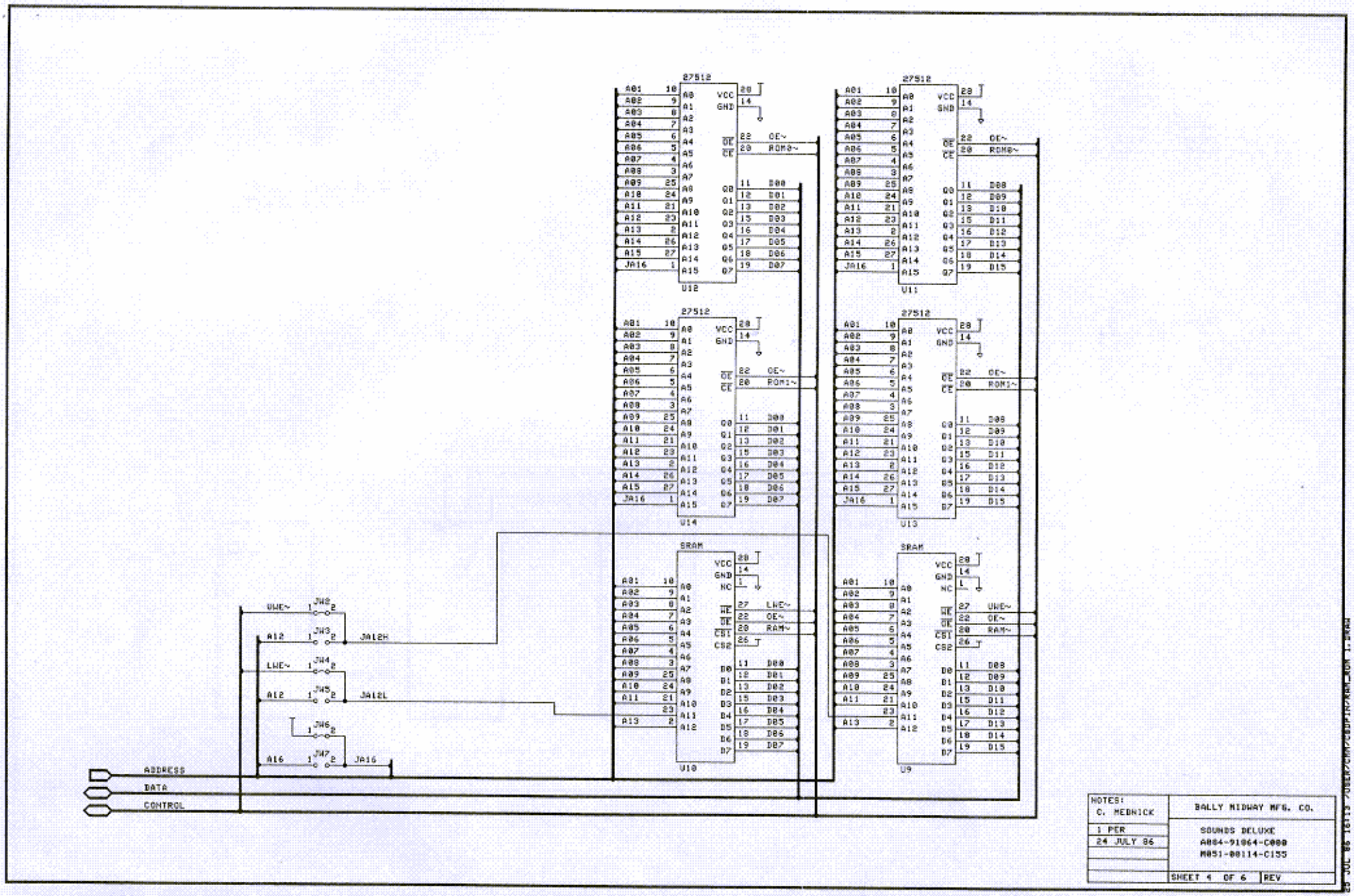


8/11/86 REV 3 - Added CP11-CP13. CMM

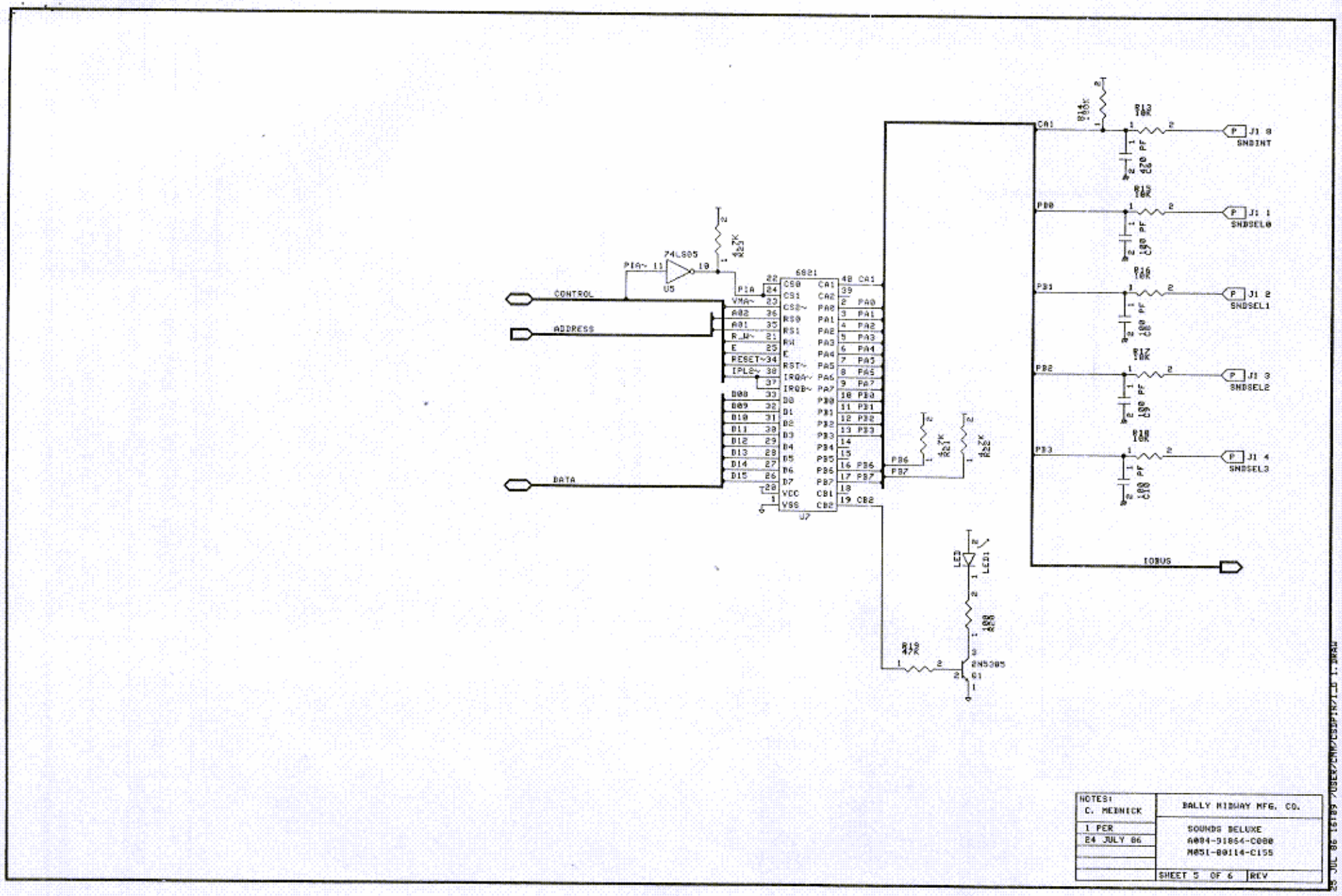
NOTES: C. MEINICK	BALLY MIDWAY MFG. CO.
1 PER	SOUNDS DELUXE
24 JULY 86	A004-91864-C000
	M031-00114-C155
	SHEET 2 OF 6 REV

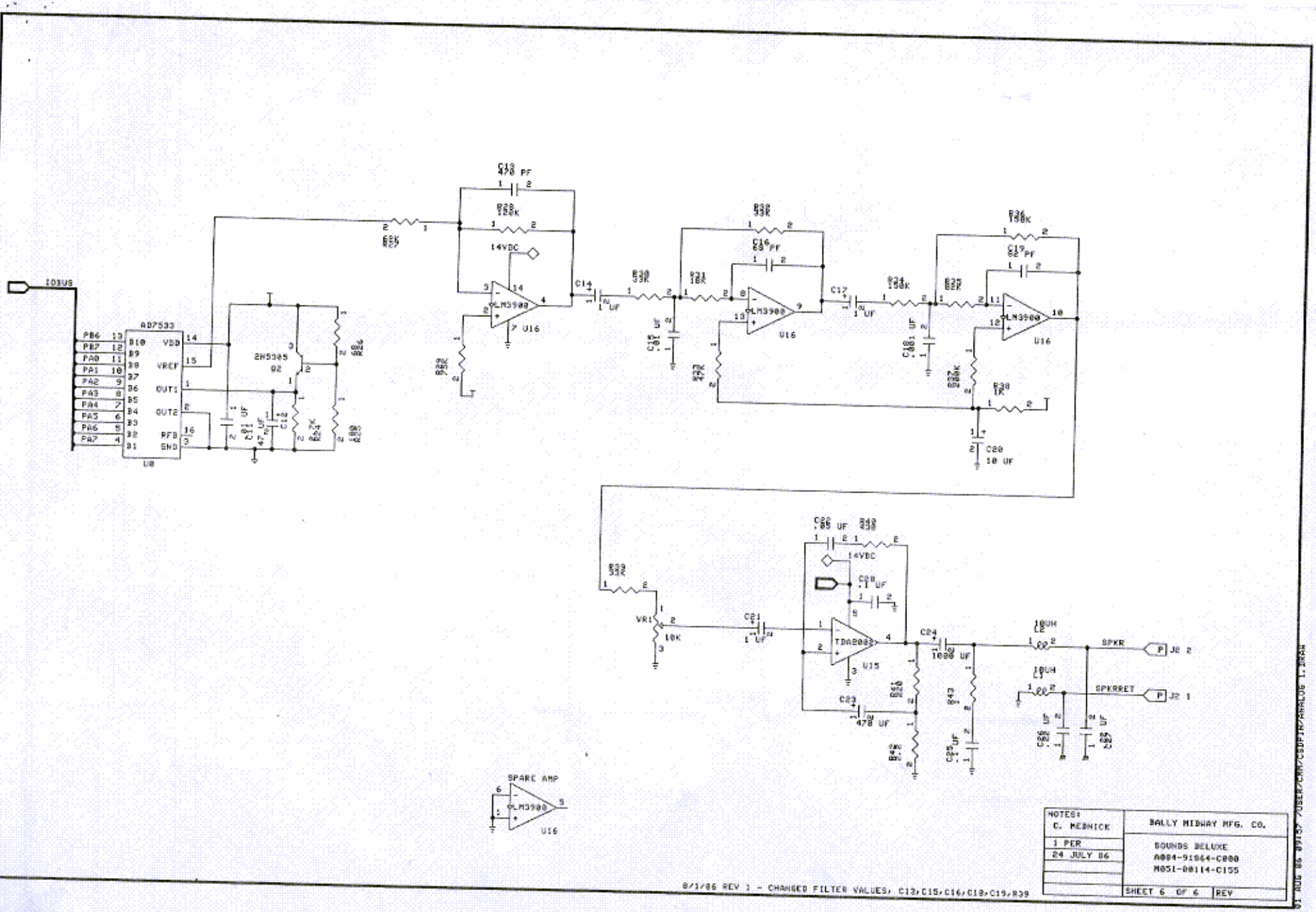
11 AUG 86 14:36 /USER/CMM/C155PIN/PWR_SPLY 1.DWG


ADDRESS
DATA
CONTROL
MC68000
U3
16MHZ
U1
74LS74
U2
74LS05
U5
74F32
U6
16L8A-2
U4
SPARE GATES
PWR_ON_RESET
RESET~
8MHZ
HALT~
VMA~
VPA~
IPL1~
IPL2~
SW1
TEST SWITCH
8/4/06 REV 2 - REMOVED D1. CMM
NOTES:
C. MEDNICK
1 PER
24 JULY 86
BALLY MIDWAY MFG. CO.
SOUNDS DELUXE
A004-91864-C000
M051-00114-C155
SHEET 3 OF 5
REV



NOTES: C. MEDNICK	BALLY MIDWAY MFG. CO.
1 PER	SOUNDS DELUXE
24 JULY 86	A884-91864-C000
	A851-00114-C155
	SHEET 4 OF 6 REV

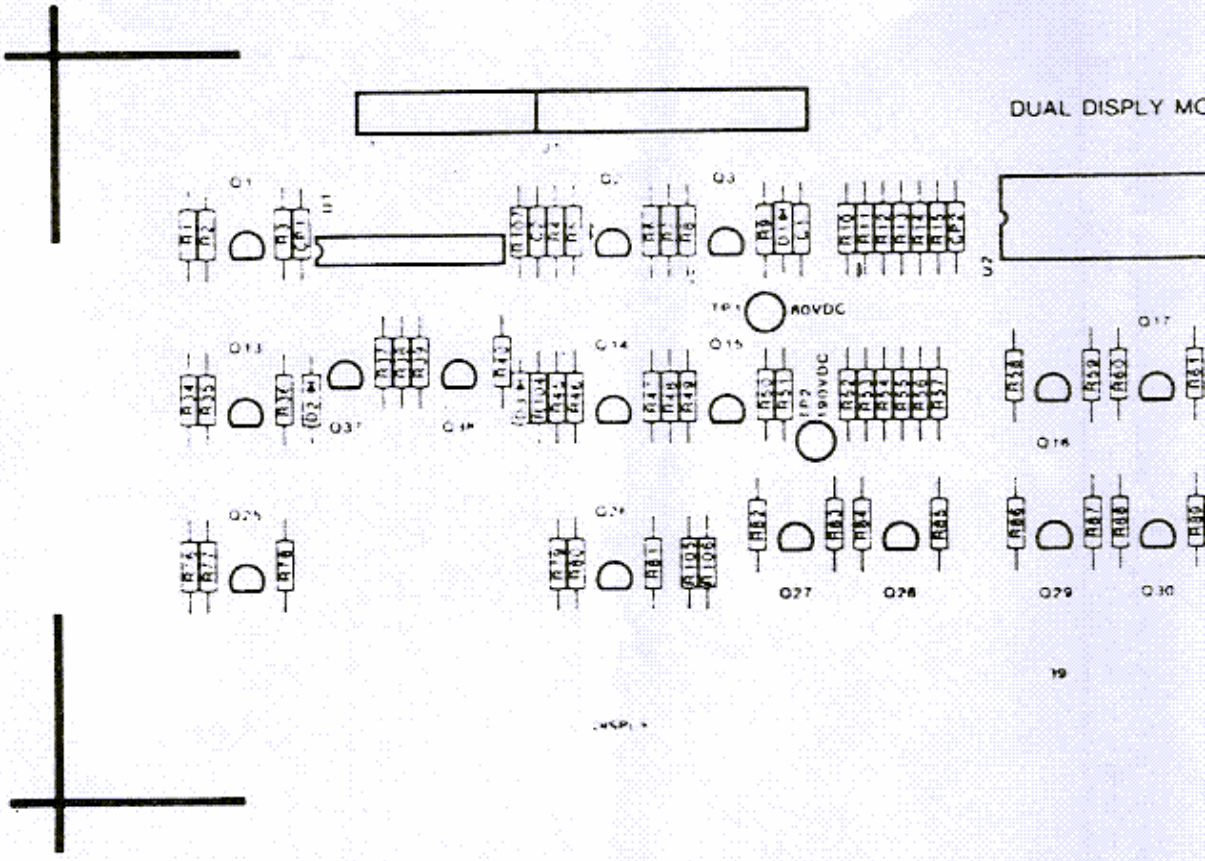

CONTROL
ADDRESS
DATA
74LS05
U5
6821
U7
IOBUS
J1 0
SNDINT
J1 1
SNDSEL0
J1 2
SNDSEL1
J1 3
SNDSEL2
J1 4
SNDSEL3
2N5305
Q1
LED1
NOTES:
C. MEDNICK
1 PER
24 JULY 86
BALLY MIDWAY MFG. CO.
SOUNDS DELUXE
A004-91854-C000
M05I-00114-C155
SHEET 5 OF 6
REV



8/1/86 REV 1 - CHANGED FILTER VALUES, C13,C15,C16,C18,C19,R39

NOTES: C. MESNICK	BALLY MIDWAY MFG. CO.
1 PER	SOUNDS DELUXE
24 JULY 86	A084-91064-C000
	A051-00114-C155
	SHEET 6 OF 6 REV

01 AUG 86 09:25 /USER/CMM/CSDPIN/ANALOG 1.DSN



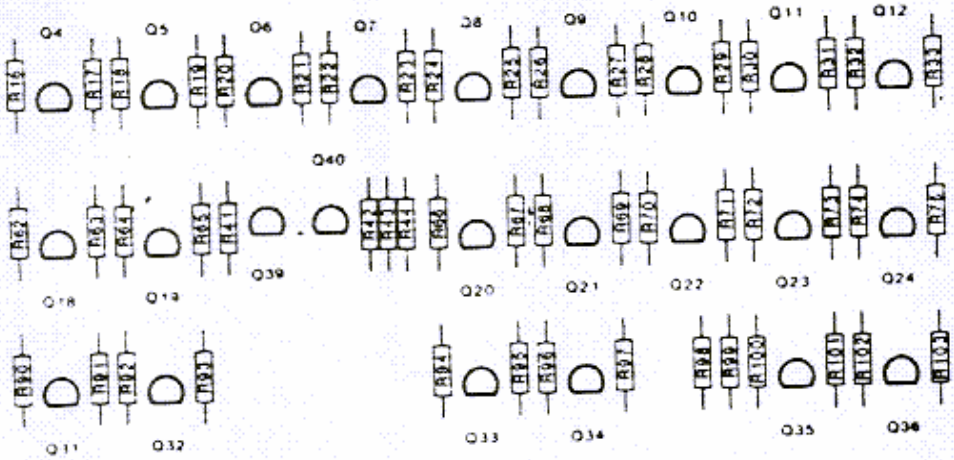
DIM. TOLERANCES	
UNLESS OTHERWISE SPEC	
CONCENTRICITY T I R	002
FRACTIONAL	1/64
DECIMAL	005
HOLE DIA	+ 002 — 000
ANGLE	±1/2°

DO NOT SCALE DWG

ILE

TPJ GND

A080-91851-F000



40

78

DISPLY

PAT. PENDING

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DATE 04/08/86 SCALE	Bally/MIDWAY MFG. CO FRANKLIN PARK, IL 60131	
	ASSY DRAWING DUAL DISPLAY MODULE A084-91851-F000	PART NO. M051-00365-F033

DESIGNATION LIST

DESIGNATION NO.	DESCRIPTION
R1	1.5K 1/4W 5% CARBON
R2	820 OHM 1/4W 5% CARBON
R3	300K 1/4W 5% CARBON
R4	1.5K 1/4W 5% CARBON
R5	510 OHM 1/4W 5% CARBON
R6	300K 1/4W 5% CARBON
R7	1.5K 1/4W 5% CARBON
R8	820 OHM 1/4W 5% CARBON
R9	300K 1/4W 5% CARBON
R10 - R15	20K 1/4W 5% CARBON
R16	9.1K 1/4W 5% CARBON
R17	100K 1/4W 5% METAL FILM
R18	2.2K 1/4W 5% CARBON
R19	300K 1/4W 5% CARBON
R20	9.1K 1/4W 5% CARBON
R21	100K 1/4W 5% METAL FILM
R22	2.2K 1/4W 5% CARBON
R23	300K 1/4W 5% CARBON
R24	9.1K 1/4W 5% CARBON
R25	100K 1/4W 5% METAL FILM
R26	2.2K 1/4W 5% CARBON
R27	300K 1/4W 5% CARBON
R28	9.1K 1/4W 5% CARBON
R29	100K 1/4W 5% METAL FILM
R30	9.1K 1/4W 5% CARBON
R31	100K 1/4W 5% METAL FILM
R32	9.1K 1/4W 5% CARBON
R33	100K 1/4W 5% METAL FILM
R34	1.5K 1/4W 5% CARBON
R35	820 OHM 1/4W 5% CARBON
R36	300K 1/4W 5% CARBON
R37	300K 1/4W 5% CARBON
R38	1.5K 1/4W 5% CARBON
R39	1K 1/4W 5% CARBON
R40	100K 1/4W 5% CARBON
R41	100K 1/4W 5% CARBON
R42	1K 1/4W 5% CARBON
R43	1.5K 1/4W 5% CARBON
R44	300K 1/4W 5% CARBON
R45	1.5K 1/4W 5% CARBON
R46	820 OHM 1/4W 5% CARBON
R47	300K 1/4W 5% CARBON
R48	1.5K 1/4W 5% CARBON
R49	820 OHM 1/4W 5% CARBON
R50	300K 1/4W 5% CARBON
R51	100K 1/4W 5% METAL FILM
R52 - R57	2.2M 1/4W 5% CARBON
R58	9.1K 1/4W 5% CARBON

DESIGNATION LIST

DESIGNATION NO.	DESCRIPTION
R59	100K 1/4W 5% METAL FILM
R60	100K 1/4W 5% METAL FILM
R61	9.1K 1/4W 5% CARBON
R62	9.1K 1/4W 5% CARBON
R63	100K 1/4W 5% METAL FILM
R64	9.1K 1/4W 5% CARBON
R65	100K 1/4W 5% METAL FILM
R66	9.1K 1/4W 5% CARBON
R67	100K 1/4W 5% METAL FILM
R68	9.1K 1/4W 5% CARBON
R69	100K 1/4W 5% METAL FILM
R70	300K 1/4W 5% CARBON
R71	2.2K 1/4W 5% CARBON
R72	300K 1/4W 5% CARBON
R73	2.2K 1/4W 5% CARBON
R74	300K 1/4W 5% CARBON
R75	2.2K 1/4W 5% CARBON
R76	1.5K 1/4W 5% CARBON
R77	820 OHM 1/4W 5% CARBON
R78	300K 1/4W 5% CARBON
R79	1.5K 1/4W 5% CARBON
R80	820 OHM 1/4W 5% CARBON
R81	300K 1/4W 5% CARBON
R82	300K 1/4W 5% CARBON
R83	2.2K 1/4W 5% CARBON
R84	100K 1/4W 5% METAL FILM
R85	9.1K 1/4W 5% CARBON
R86	300K 1/4W 5% CARBON
R87	2.2K 1/4W 5% CARBON
R88	2.2K 1/4W 5% CARBON
R89	300K 1/4W 5% CARBON
R90	300K 1/4W 5% CARBON
R91	2.2K 1/4W 5% CARBON
R92	300K 1/4W 5% CARBON
R93	2.2K 1/4W 5% CARBON
R94	300K 1/4W 5% CARBON
R95	2.2K 1/4W 5% CARBON
R96	300K 1/4W 5% CARBON
R97	2.2K 1/4W 5% CARBON
R98	10M 1/4W 5% CARBON
R99	1M 1/4W 5% CARBON
R100	300K 1/4W 5% CARBON
R101	2.2K 1/4W 5% CARBON
R102	100K 1/4W 5% METAL FILM
R103	9.1K 1/4W 5% CARBON
R104	150K 1/4W 5% CARBON
R105	10M 1/4W 5% CARBON
R106	1M 1/4W 5% CARBON
R107	10K 1/4W 5% CARBON

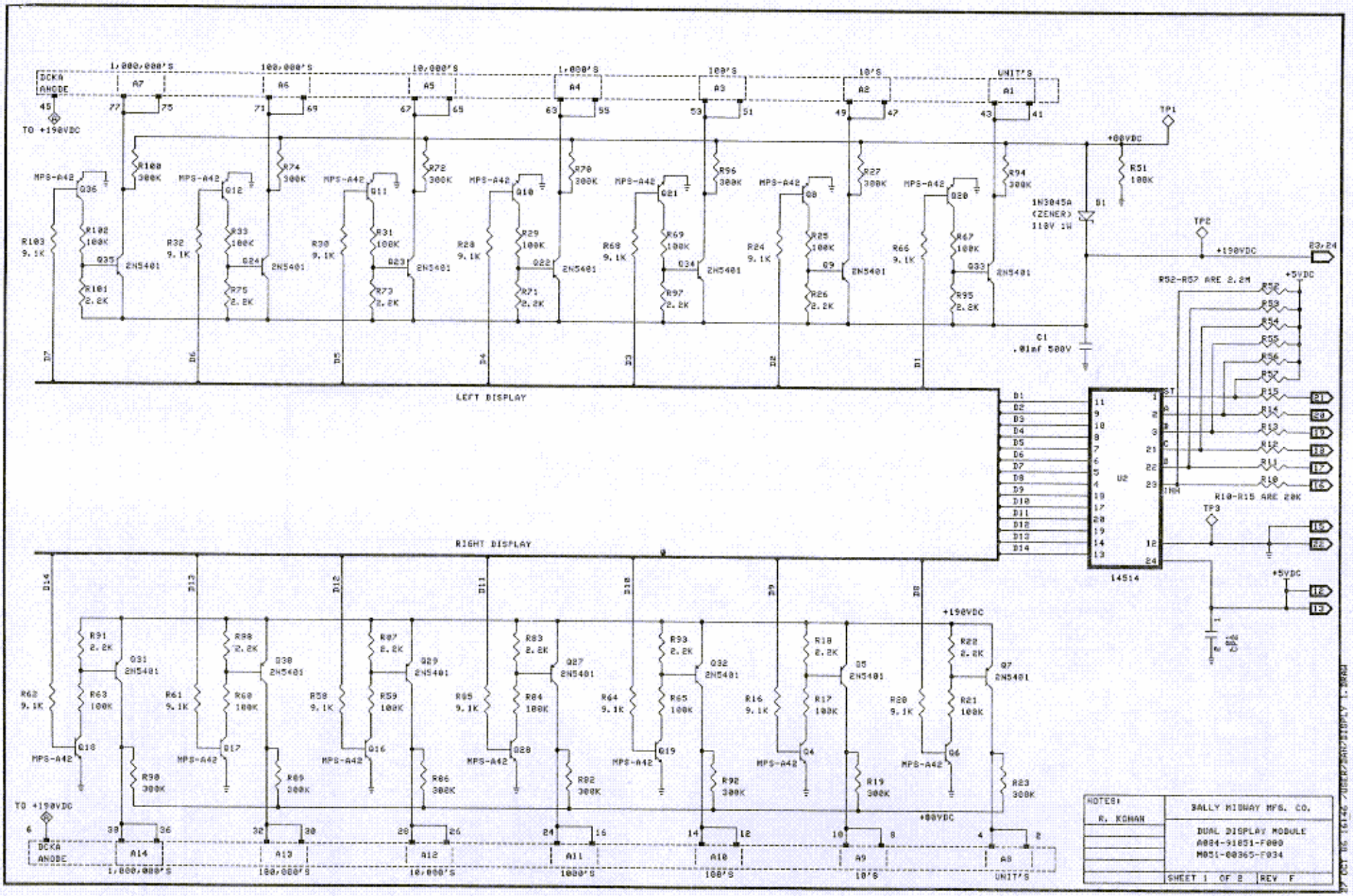
DESIGNATION LIST

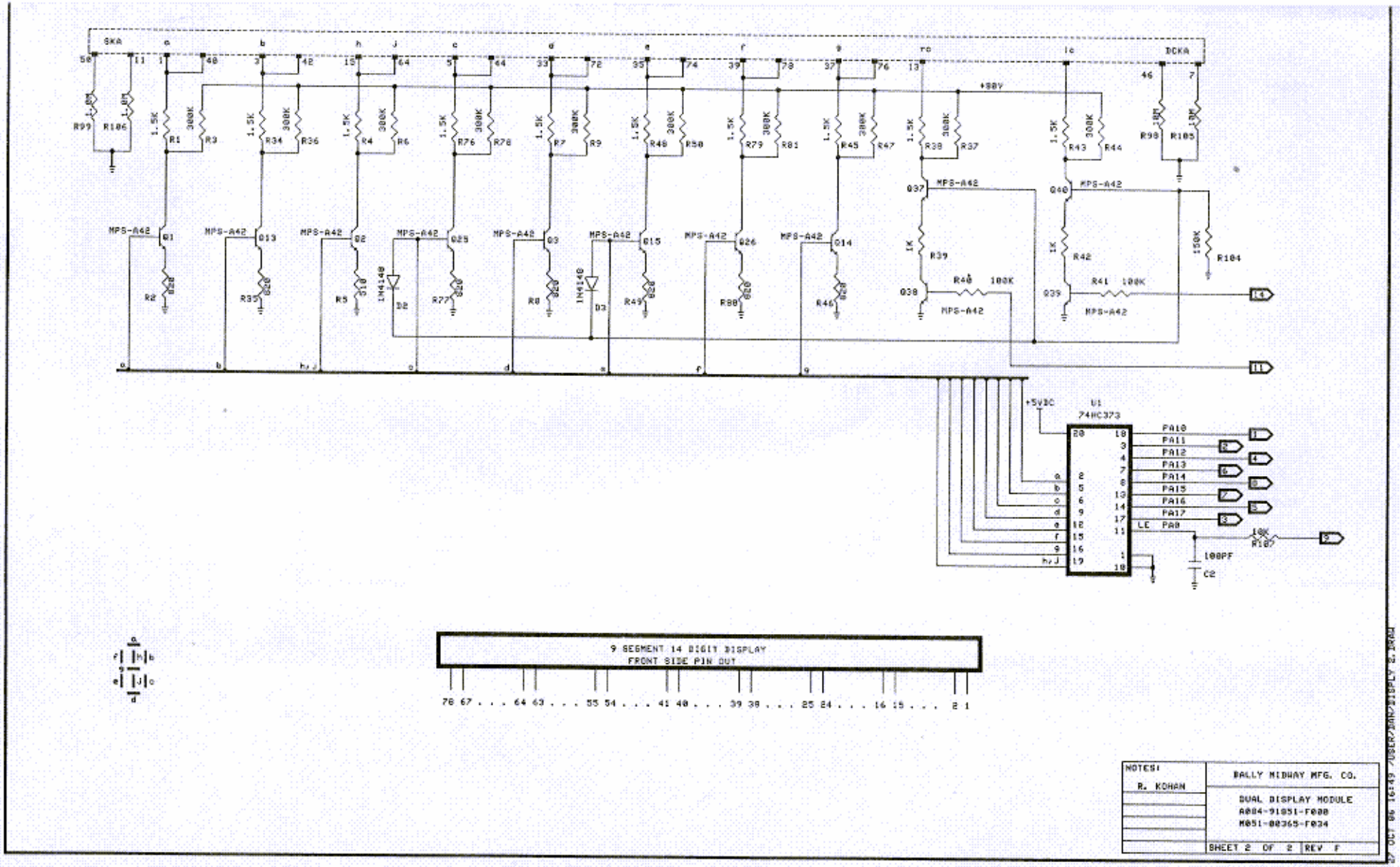
DESIGNATION NO.	DESCRIPTION
C1	.01UF 500V CER.
C2	100PF 50V AX. CER.
CP1, CP2	.01UF 50V CER.
D1	1M110ZS10 110V ZENER DIODE
D2,D3	1N4148 DIODE
Q1 - Q4	MPS-A-42 NPN XSTR
Q5	2N5401 PNP XSTR
Q6	MPS-A-42
Q7	2N5401
Q8	MPS-A-42
Q9	2N5401
Q10 - Q21	MPS-A-42
Q22 - Q24	2N5401
Q25	MPS-A-42
Q26	MPS-A-42
Q27	2N5401
Q28	MPS-A-42
Q29 - Q35	2N5401
Q36 - Q40	MPS-A-42
U1	74HC373 CMOS OCTAL LATCH
U2	14514 1-16 DECODER
DISPLAY 1	14 DIGIT, 9 SEGMENT GAS DISCHARGE DISP
J1	.025 SQ. PINS
TP1, TP2, TP3	TEST LOOPS
	FOAM TAPE
	BUMPER
	DISPLAY MTG. CLIPS
	SCREWS
M051-00365- A014	DISPLAY MTG. PROCEDURE
A080-91851-F000	DUAL DISPLAY MODULE P.C.B.

DUAL DISPLAY MODULE
A084-91851-F000
M051-00365-F042 (Page 4 of 4)

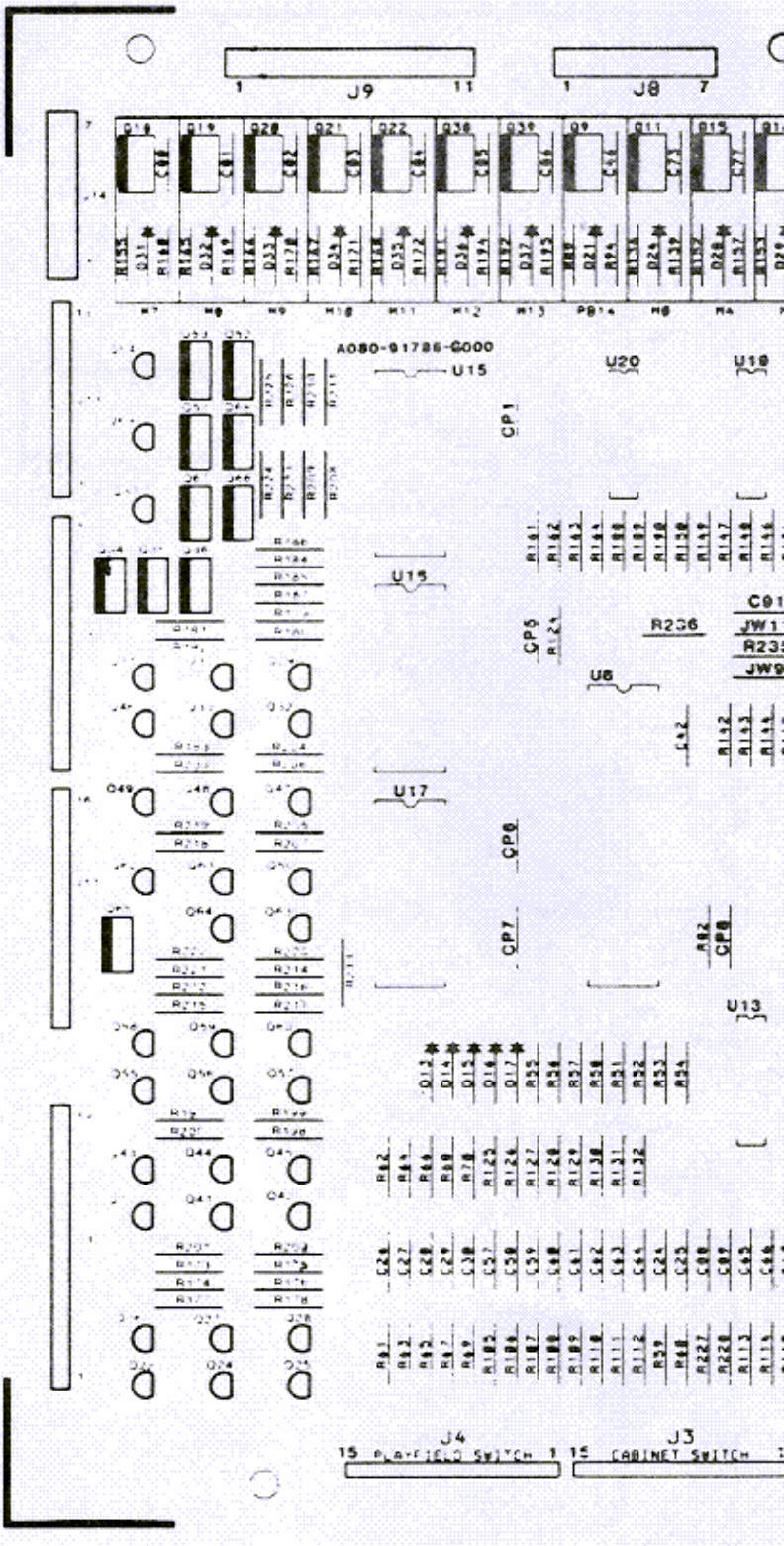
CROSS REFERENCE LIST

DESCRIPTION	QTY.	DESIGNATION NO.	PART NOS.
510 OHM 1/4W 5% CARBON	1	R5	100E-00005-0053
820 OHM 1/4W 5% CARBON	7	R2,R8,R35,R46 R49,R77,R80	100E-00005-0058
1K 1/4W 5% CARBON	2	R39,R42	100E-00005-0061
1.5K 1/4W 5% CARBON	10	R1,R4,R7,R34,R38 R43,R45,R48 R76,R79	100E-00005-0065
2.2K 1/4W 5% CARBON	14	R18,R22,R26,R71 R73,R75,R83,R87 R88,R91,R93,R95 R97,R101	100E-00005-0069
9.1K 1/4W 5% CARBON	14	R16,R20,R24,R28 R30,R32,R58,R61 R62,R64,R66,R68 R85,R103	100E-00005-0087
10K 1/4W 5% CARBON	1	R107	100E-00005-0088
20K 1/4W 5% CARBON	6	R10 - R15	100E-00005-0095
100K 1/4W 5% CARBON	2	R40,R41	100E-00005-0115
100K 1/4W 5% METAL FILM	15	R17,R21,R25,R29 R31,R33,R51,R59 R60,R63,R65,R67 R69,R84,R102	100E-00001-0011
150K 1/4W 5% CARBON	1	R104	100E-00005-0120
300K 1/4W 5% CARBON	24	R3,R6,R9,R19,R23 R27,R36,R37,R44, R47,R50,R70,R72, R74,R78,R81,R82, R86,R89,R90,R92, R94,R96,R100	100E-00005-0127
1.0M OHM 1/4W 5% CARBON	2	R99,R106	100E-00005-0140
2.2M OHM 1/4W 5% CARBON	6	R52 - R57	100E-00005-0147
10.0M OHM 1/4W 5% CARBON	2	R98,R105	100E-00005-0162
100PF AX. CER.	1	C2	0639-00800-0003
.01UF	2	CP1,CP2	0360-00800-0005
.01UF 500V	1	C1	0360-00800-0013
1N4148	2	D2,D3	103E-00002-0005
1M110ZS10 110V ZENER DIODE	1	D1	103E-00001-0028
2N5401 PNP XSTR	14	Q5,Q7,Q9,Q22,Q23 Q24,Q27,Q29,Q30 Q31,Q32,Q33,Q34 Q35	0360-00802-0006
MPS-A-42 NPN XSTR	26	Q1-Q4,Q6,Q8,Q10-Q21,Q25,Q26,Q28 Q36-Q40	0360-00802-0007
14514 1-16 DECODER	1	U2	0360-00803-0013
74HC373 OCTAL LATCH	1	U1	0365-00803-0015
.025SQ. PINS	23	J1	0304-00804-0009
14 DIGIT, 9 SEGMENT GAS DISCHARGE DISPLAY	1	DISPLAY 1	119E-00002-0006
TEST LOOPS	3	TP1 - TP3	0017-00007-0131
FOAM TAPE	2		0017-00081-0289
BUMPER	1		0017-00041-0598
DISPLAY MTG. CLIP	2		0365-00174-00XF
SCREW	2		0017-00101-0175
DISPLAY MTG. PROCEDURE	1		M051-00365-A014
DUAL DISPLAY MODULE PCB	1		A080-91851-F000

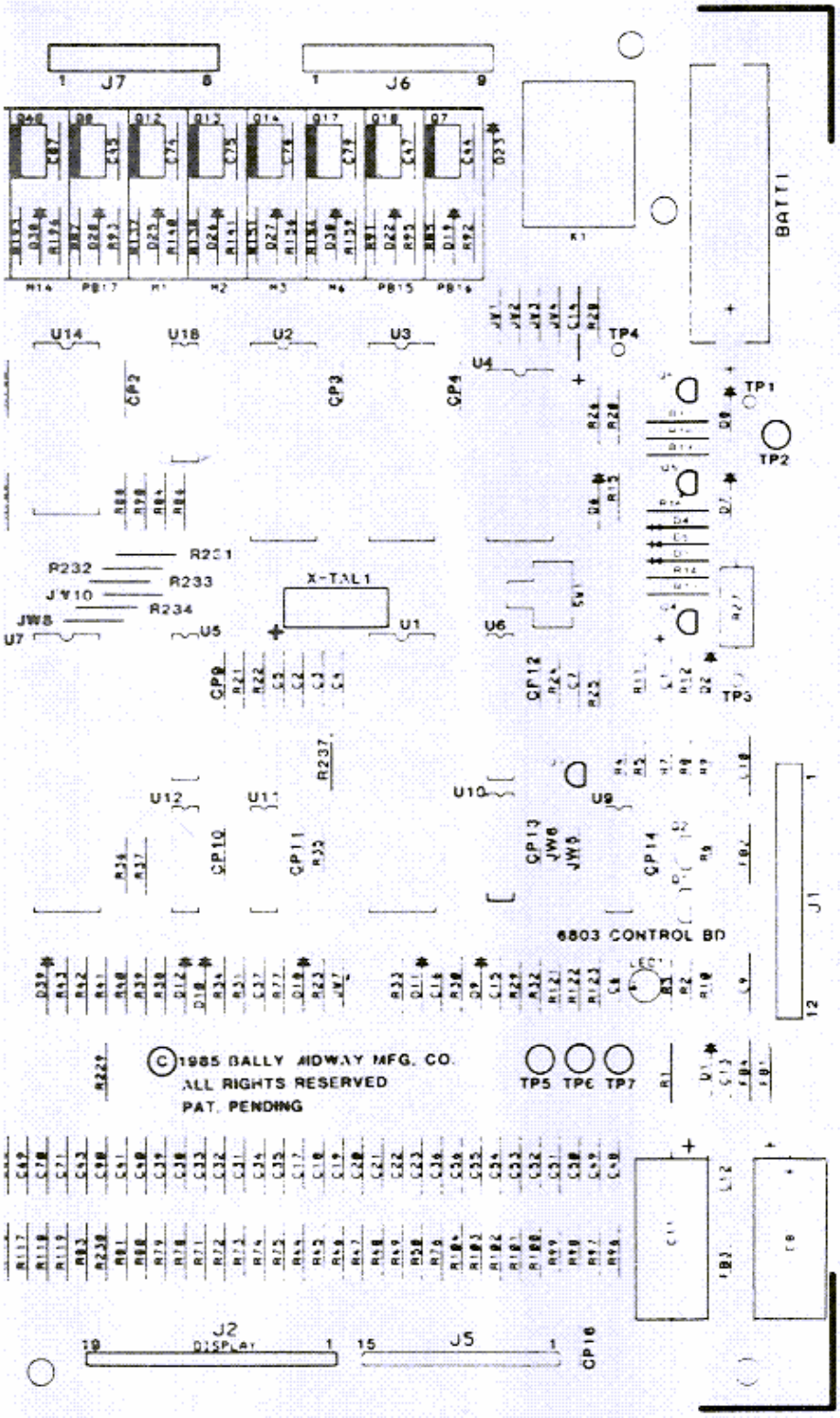

DCKA ANODE
1,000,000'S
100,000'S
10,000'S
1,000'S
100'S
10'S
UNIT'S
TO +190VDC
+80VDC
TP1
TP2
TP3
+190VDC
+5VDC
MPS-A42
2N5401
1N3045A (ZENER) 110V 1W
D1
C1 .01mf 500V
R51 100K
R52-R57 ARE 2.2M
R10-R15 ARE 20K
LEFT DISPLAY
RIGHT DISPLAY
14514
U2
R3,24
R1
R8
R9
R19
R18
R17
R16
R15
R14
R13
R12
R11
R10
R2
R23 300K
NOTES:
R. KONAN
BALLY MIDWAY MFG. CO.
DUAL DISPLAY MODULE
A084-91851-F000
M051-00365-F034
SHEET 1 OF 2
REV F



NOTES:	BALLY MIDWAY MFG. CO.
R. KOHAN	DUAL DISPLAY MODULE A804-91851-F800 A851-00365-F024
	SHEET 2 OF 2 REV F



DIM. TOLERANCES	FIRST USED ON		
UNLESS OTHERWISE SPEC	DRN CL	DATE 04/08/86	SCALE
CONCENTRICITY T.I.R. .002	MECH CHK	MAT'L	
FRACTIONAL ± 1/64	ELEC CHK	FINISH	
DECIMAL ± .005			
HOLE DIA. . . . + .002 — .000			
ANGLE ± 1/2°			
DO NOT SCALE DWG.			



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MIDWAY MFG. CO.
FRANKLIN PK., IL. 60131 A BALLY CO

ASSY DRAWING
6803 CONTROL BD.
A084-91786-G000

REVISIONS

PART NO
M0-5-1-0-0-C-5-3-G-0-0-3

CROSS REFERENCE LIST

DESCRIPTION	QTY.	DESIGNATION NO.	PART NOS.
27pf 50V CER.	2	C2, C3	0360-00800-0052
47pf 50V CER.	1	C7	0360-00800-0027
390pf 50V CER.	25	C24-C30, C57-C71 C88-C90	0360-00800-0001
470pf 1KV CER.	27	C17-C23, C31-C36, C38-C41, C48-C56, C91	0307-00800-0008
.002uf 1KV CER.	19	C44-C47, C73-C87	0360-00800-0012
.003uf 1KV CER.	1	C43	0360-00800-0025
.01uf 50V CER.	24	C6, C9, C10, C12, C13 C15, C16, C42, CP1-CP16	0365-00800-0014
.05uf 16V CER.	1	C37	0360-00800-0006
.1uf 50V CER.	1	C4	0360-00800-0058
4.7uf 25V TANT	2	C5, C14	0360-00800-0008
6.8uf 25V TANT	1	C1	0360-00800-0048
470uf 16V ELEC	1	C8	0360-00800-0022
470uf 25V ELEC	1	C11	0360-00800-0024
82 OHM 1/4W 5%	1	R9	100E-00005-0031
100 OHM 1/4W 5%	1	R8	100E-00005-0033
110 OHM 1/4W 5%	1	R83	100E-00005-0034
120 OHM 1/4W 5%	21	R24, R85, R87, R89, R91, R121, R136-R138, R151-R155, R165-R168, R191-R193	100E-00005-0035
270 OHM 1/4W 5%	1	R28	100E-00005-0044
330 OHM 1/4W 5%	23	R92-R95, R139-R141, R156-R160, R169-R172, R194-R196, R231-R234	100E-00005-0047
470 OHM 1/4W 5%	9	R96-R104	100E-00005-0051
560 OHM 1/4W 5%	1	R1	100E-00005-0054
680 OHM 1/4W 5%	1	R25	100E-00005-0056
750 OHM 1/4W 5%	1	R19	100E-00005-0057
910 OHM 1/4W 5%	1	R18	100E-00005-0059
1K 1/4W 5%	3	R3, R29, R32	100E-00005-0061
1.2K 1/4W 5%	60	R44-R50, R59-R61, R63, R65, R67, R69, R71-R76 R78-R82, R105-R119, R122 R133-R135, R146-R150, R161-R164, R188-R190, R227, R228, R230, R236	100E-00005-0063
1.5K 1/4W 5%	1	R20	100E-00005-0065
2K 1/4W 5%	46	R123, R173-R187 R197-R226	100E-00005-0068
2.7K 1/4W 5%	2	R2, R6	100E-00005-0071
3K 1/4W 5%	1	R17	100E-00005-0073
3.3K 1/4W 5%	18	R21-R23, P35, R51-R58, R124, R142-R145, R235	100E-00005-0074
3.9K 1/4W 5%	4	R84, R86, R88, R90	100E-00005-0077
4.7K 1/4W 5%	8	R36-R43	100E-00005-0079
5.6 1/4W 5%	1	R16	100E-00005-0082

CROSS REFERENCE LIST

DESCRIPTION	QTY.	DESIGNATION NO.	PART NOS.
7.5 1/4W 5%	1	R5	100E-00005-0085
9.1 1/4W 5%	1	R4	100E-00005-0087
10K 1/4W 5%	4	R12, R13, R30, R33	100E-00005-0088
15K 1/4W 5%	2	R31, R34	100E-00005-0092
39K 1/4W 5%	1	R7	100E-00005-0102
47K 1/4W 5%	2	R10, R11	100E-00005-0104
56K 1/4W 5%	14	R62, R64, R66, R68 R70, R125-R132, R229	100E-00005-0106
62K 1/4W 5%	1	R15	100E-00005-0107
82K 1/4W 5%	1	R14	100E-00005-0112
100K 1/4W 5%	2	R26, R237	100E-00005-0115
270K 1/4W 5%	1	R77	100E-00005-0126
82 OHM 1W 10%	1	R27	100E-00007-0014
IN958B ZENER	1	D1	103E-00001-0002
IN4004	20	D19-D38	103E-00003-0005
IN4148	13	D3, D6, D9-D18, D39	103E-00002-0005
IN4606	5	D2, D4, D5, D7, D8	103E-00002-0006
2N3904	3	Q2, Q4, Q6	104E-00001-0006
2N4403	2	Q3, Q5	104E-00002-0006
2N5060	35	Q23-Q33, Q37, Q41-Q50, Q54-Q64, Q69, Q70	104E-00015-0001
2N5305	1	Q1	104E-00007-0003
MCR106-1	10	Q34-Q36, Q51-Q53 Q65-Q68	0360-00802-0009
SE9302	19	Q7-Q22, Q38-Q40	0360-00802-0008
4011	1	U11	0360-00803-0010
4502	1	U13	0360-00803-0005
4514B	3	U15-U17	0360-00803-0013
4584	1	U12	0066-090BX-XXDX
6116 RAM	1	U4	0365-00803-0013
6803 MPU	1	U1	0360-00803-0048
6821 PIA	2	U7, U8	0360-00803-0017
74LS04	1	U10	0A15-00803-0010
74LS10	1	U9	0A89-00803-0007
75LS154	1	U14	0360-00803-0024
74HCT245	1	U5	0365-00803-0014
74LS373	1	U6	0A89-00803-0006
CA3081	3	U18-U20	0360-00803-0007
3.580 MHz CRYSTAL	1	XTAL-1	109E-00001-0003
LED GREEN	1	LED 1	0017-00007-0131
TEST POINTS	7	TP1-TP7	0017-00007-0131
SWITCH P.B.	1	SW1	0017-00032-0038
BATTERY 3.6V	1	BATT-1	0017-00003-0172
ZERO OHM RES. JUMPER	5	JW2, JW4, JW6, JW8, JW10	117E-00001-0001
RELAY 48VDC	1	K1	114E-00001-0011
40 PIN I.C. SOCKET	3	XU1, XU7, XU8	110E-00001-0011
28 PIN I.C. SOCKET	2	XU2, XU3	110E-00001-0010
24 PIN I.C. SOCKET	1	XU4	110E-00001-0007
FERRITE BEAD	4	FB1-FB4	0316-00804-0002

DESIGNATION LIST

DESIGNATION	DESCRIPTION
C1	6.8UF 25V TANT.
C2,C3	27PF 50V CER.
C4	.1UF 50V CER.
C5	4.7UF 25V TANT.
C6	.01UF 50V CER.
C7	47PF 50V CER.
C8	470UF 16V ELEC.
C9,C10	.01UF 50V CER.
C11	470UF 25V ELEC.
C12,C13	.01UF 50V CER.
C14	4.7UF 25V TANT.
C15,C16	.01UF 50V CER.
C17 - C23	470PF 1KV CER.
C24 - C30	390PF 50V CER.
C31 - C36	470PF 1KV CER.
C37	.05UF 16V CER.
C38 - C41	470PF 1KV CER.
C42	.01UF 50V CER.
C43	.003UF 1KV CER.
C44 - C47	.002UF 1KV CER.
C48 - C56	470PF 1KV CER.
C57 - C71	390PF 50V CER.
C73 - C87	.002 1KV CER.
C88 - C90	390PF 50V CER.
C91	470PF 1KV CER.
CP1 - CP16	.01 50V CER.
R1	560 OHM 1/4W 5%
R2	2.7K 1/4W 5%
R3	1K 1/4W 5%
R4	9.1K 1/4W 5%
R5	7.5K 1/4W 5%
R6	2.7K 1/4W 5%
R7	39K 1/4W 5%
R8	100 OHM 1/4W 5%
R9	82 OHM 1/4W 5%
R10,R11	47K 1/4W 5%
R12,R13	10K 1/4W 5%
R14	82K 1/4W 5%
R15	62K 1/4W 5%
R16	5.6K 1/4W 5%
R17	3K 1/4W 5%
R18	910 OHM 1/4W 5%
R19	750 OHM 1/4W 5%
R20	1.5K 1/4W 5%
R21 - R23	3.3K 1/4W 5%
R24	120 OHM 1/4W 5%
R25	680 OHM 1/4W 5%
R26	100K 1/4W 5%
R27	82 OHM 1W 10%

DESIGNATION	DESCRIPTION
R28	270 OHM 1/4W 5%
R29	1K 1/4W 5%
R30	10K 1/4W 5%
R31	15K 1/4W 5%
R32	1K 1/4W 5%
R33	10K 1/4W 5%
R34	15K 1/4W 5%
R35	3.3K 1/4W 5%
R36 - R43	4.7K 1/4W 5%
R44 - R50	1.2K 1/4W 5%
R51 - R58	3.3K 1/4W 5%
R59 - R61	1.2K 1/4W 5%
R62	56K 1/4W 5%
R63	1.2K 1/4W 5%
R64	56K 1/4W 5%
R65	1.2K 1/4W 5%
R66	56K 1/4W 5%
R67	1.2K 1/4W 5%
R68	56K 1/4W 5%
R69	1.2K 1/4W 5%
R70	56K 1/4W 5%
R71 - R76	1.2K 1/4W 5%
R77	270K 1/4W 5%
R78 - R82	1.2K 1/4W 5%
R83	110 OHM 1/4W 5%
R84	3.9K 1/4W 5%
R85	120 OHM 1/4W 5%
R86	3.9K 1/4W 5%
R87	120 OHM 1/4W 5%
R88	3.9K 1/4W 5%
R89	120 OHM 1/4W 5%
R90	3.9K 1/4W 5%
R91	120 OHM 1/4W 5%
R92 - R95	330 OHM 1/4W 5%
R96 - R104	470 OHM 1/4W 5%
R105 - R119	1.2K 1/4W 5%
R121	120 OHM 1/4W 5%
R122	1.2K 1/4W 5%
R123	2K 1/4W 5%
R124	3.3K 1/4W 5%
R125 - R132	56K 1/4W 5%
R133 - R135	1.2K 1/4W 5%
R136 - R138	120 OHM 1/4W 5%
R139 - R141	330 OHM 1/4W 5%
R142 - R145	3.3K 1/4W 5%
R146 - R150	1.2K 1/4W 5%
R151 - R155	120 OHM 1/4W 5%
R156 - R160	330 OHM 1/4W 5%
R161 - R164	1.2K OHM 1/4W 5%

6803 CONTROL BOARD
A084-91786-G000
M051-00C53-G003

DESIGNATION	DESCRIPTION
R165 - R168	120 OHM 1/4W 5%
R169 - R172	330 OHM 1/4W 5%
R173 - R187	2K 1/4W 5%
R188 - R190	1.2K 1/4W 5%
R191 - R193	120 OHM 1/4W 5%
R194 - R196	330 OHM 1/4W 5%
R197 - R226	2K 1/4W 5%
R227,R228	1.2K 1/4W 5%
R229	56K 1/4W 5%
R230	1.2K 1/4W 5%
R231 - R234	330 OHM 1/4W 5%
R235	3.3K 1/4W 5%
R236	1.2K 1/4W 5%
R237	100K OHM 1/4W 5%
D1	1N958B
D2	1N4606
D3	1N4148
D4,D5	1N4606
D6	1N4148
D7,D8	1N4606
D9 - D18	1N4148
D19 - D38	1N4004
D39	1N4148
Q1	2N5305
Q2	2N3904
Q3	2N4403
Q4	2N3904
Q5	2N4403
Q6	2N3904
Q7 - Q22	SF9302
Q23 - Q33	2N5060
Q34 - Q36	MCR 106-1
Q37	2N5060
Q38 - Q40	SF9302
Q41 - Q50	2N5060
Q51 - Q53	MCR 106-1
Q54 - Q64	2N5060
Q65 - Q68	MCR 106-1
Q69,Q70	2N5060
U1	6803
U4	6116 RAM
U5	74HCT245
U6	74LS373
U7,U8	6821
U9	74LS10
U10	74LS04
U11	4011
U12	4584
U13	4502
U14	74LS154

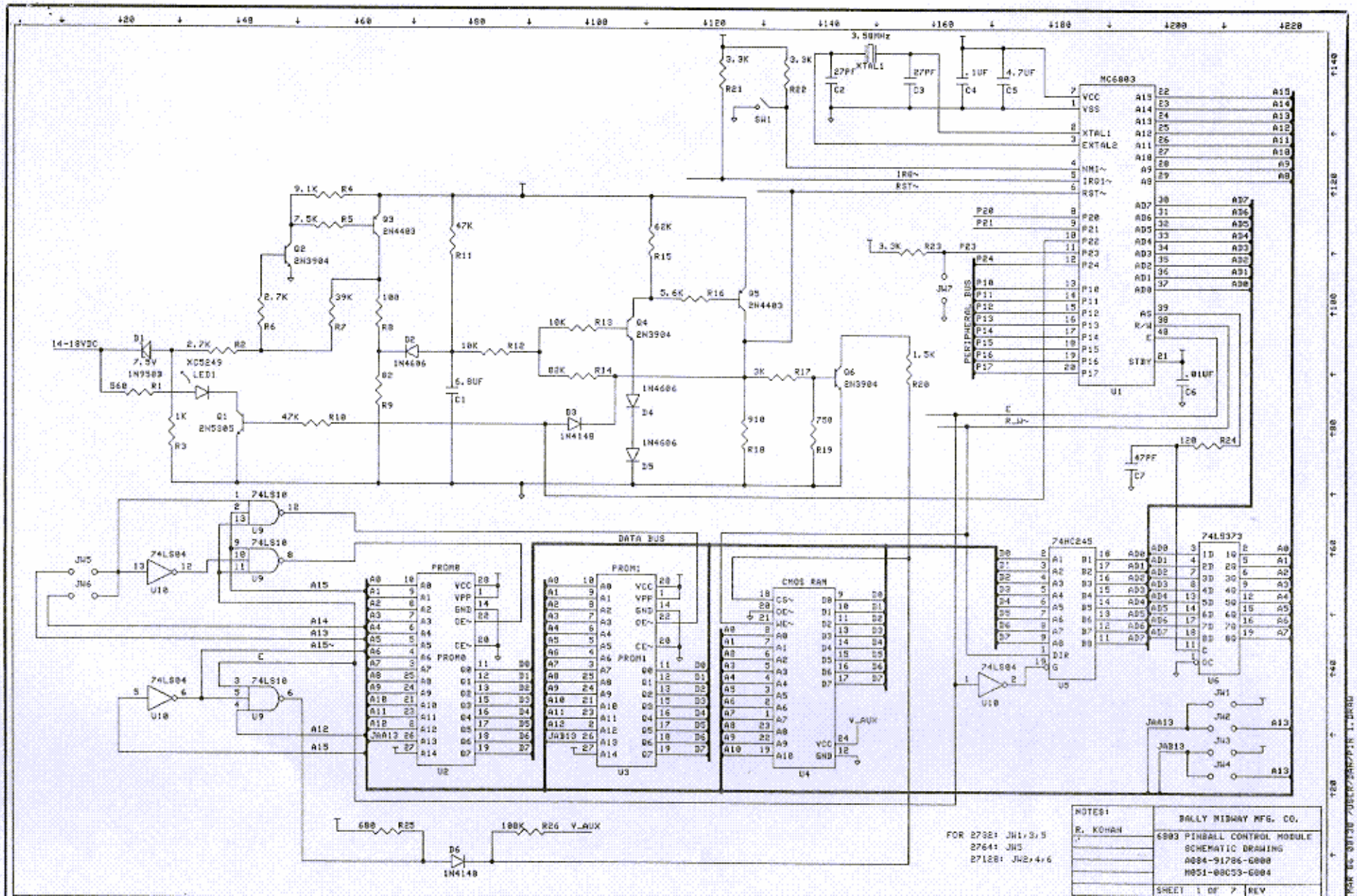
DESIGNATION	DESCRIPTION
U15 - U17	4514B
U18 - U20	CA3081
XTAL-1	3.580 MHZ CRYSTAL
LED 1	LED GREEN
TP1 - TP7	TEST POINTS
SW1	SWITCH P.B.
BATT-1	BATTERY 3.6V
JW2	ZERO OHM RES. JUMPER
JW4	ZERO OHM RES. JUMPER
JW6	ZERO OHM RES. JUMPER
JW8	ZERO OHM RES. JUMPER
JW10	ZERO OHM RES. JUMPER
K1	RELAY 48V DC
XU1,XU7,XU8	40 PIN IC SOCKET
XU2, XU3	28 PIN IC SOCKET
XU4	24 PIN IC SOCKET
FB1 - FB4	FERRITE BEAD
J1	11 - .045 SQ. PINS
J2	18 - .025 SQ. PINS
J3	14 - .025 SQ. PINS
J4	14 - .025 SQ. PINS
J5	14 - .025 SQ. PINS
J6	8 - .045 SQ. PINS
J7	7 - .045 SQ. PINS
J8	6 - .045 SQ. PINS
J9	10 - .045 SQ. PINS
J10	18 - .025 SQ. PINS
J11	17 - .025 SQ. PINS
J12	16 - .025 SQ. PINS
J13	12 - .025 SQ. PINS
J14	5 - .045 SQ. PINS
P/O BATT-1	TY-WRAP
6803 CONTROL BD.	P.C. BOARD

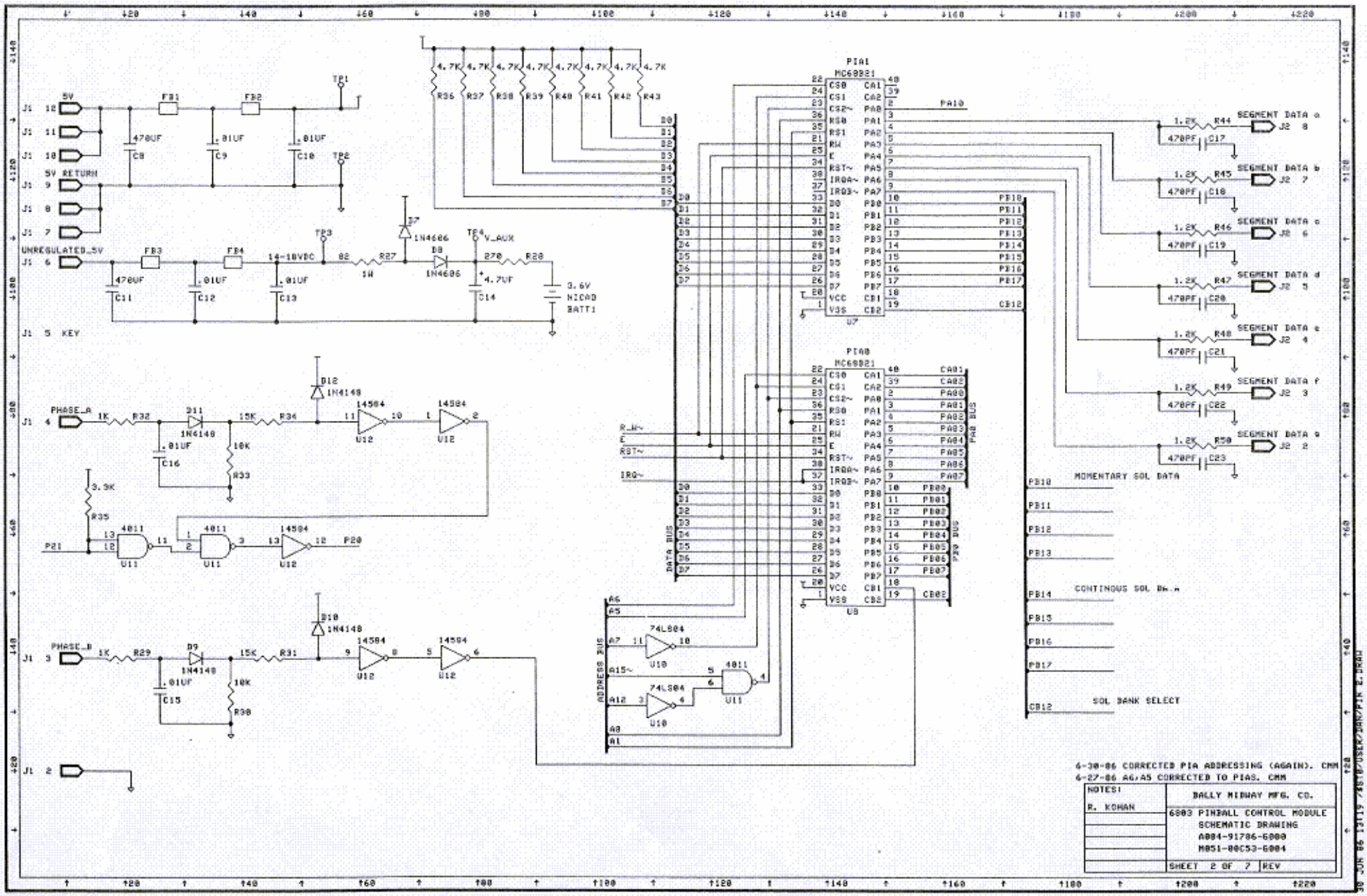
6803 CONTROL BOARD
A084-91786-G000
M051-000C53-G003

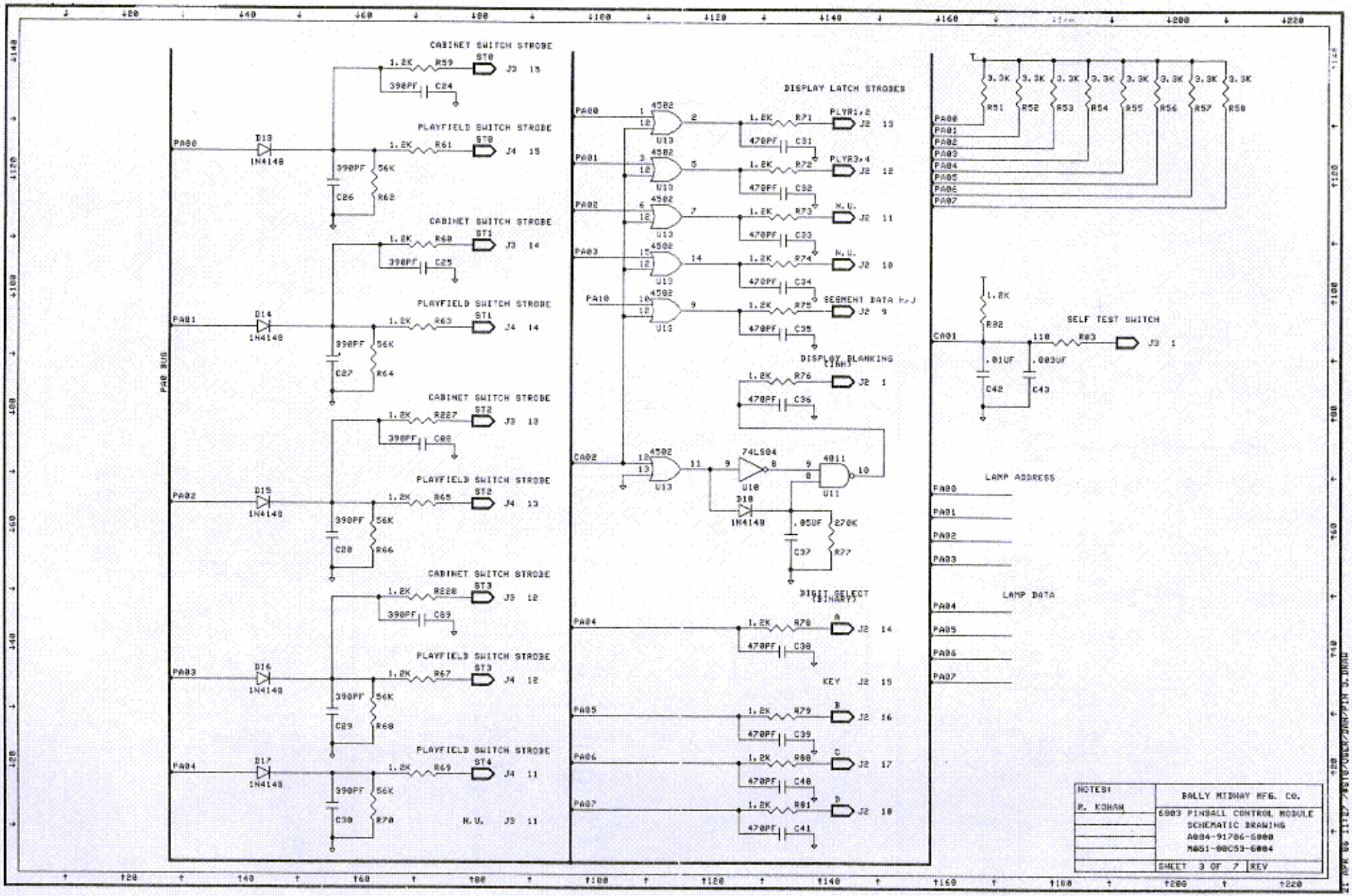
CROSS REFERENCE LIST

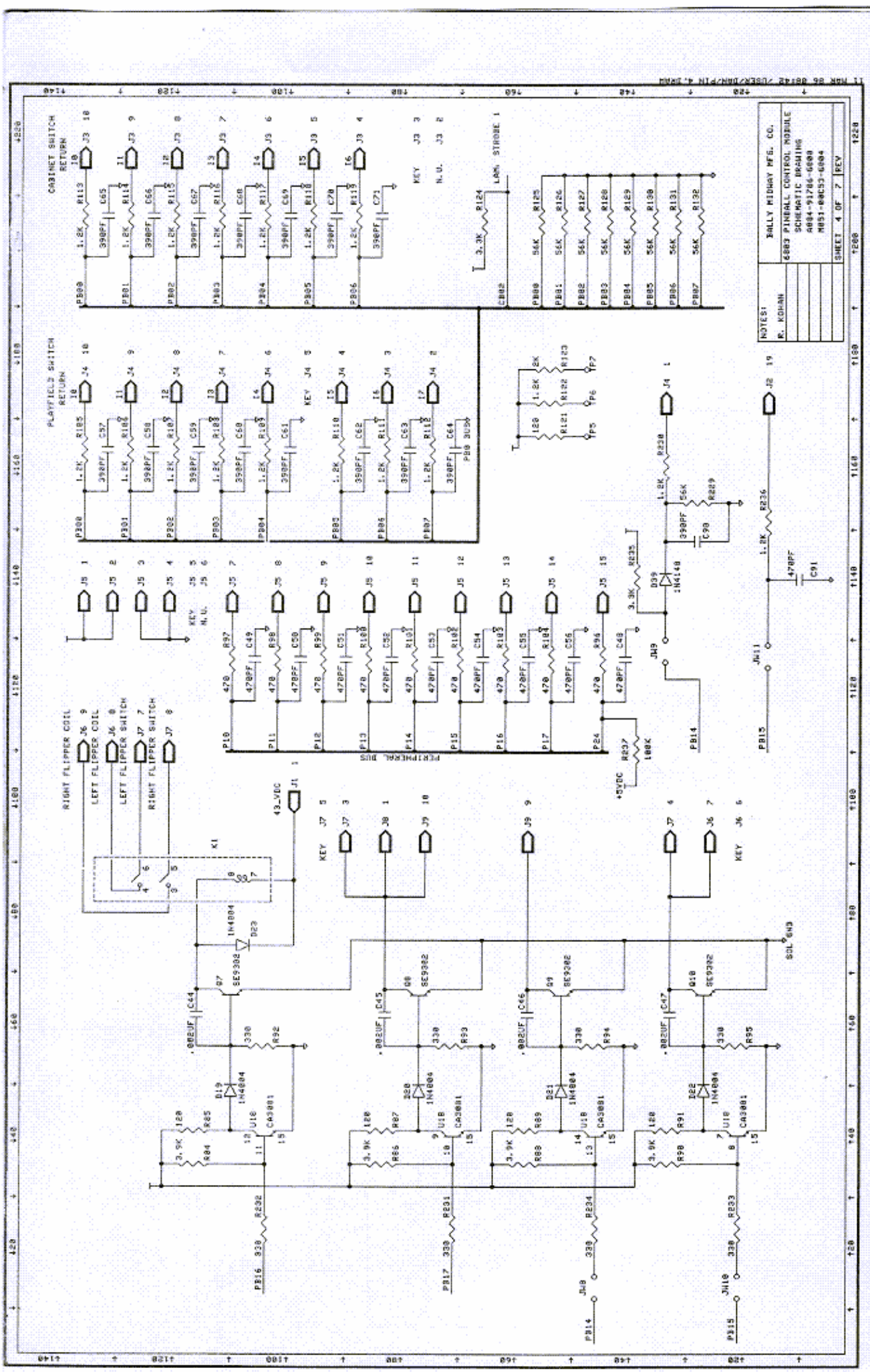
DESCRIPTION	QTY.	DESIGNATION NO.	PART NOS.
.025 SQ. PINS	123	J2, J3, J4, J5, J10, J11, J12, J13	0304-00804-0009
.045 SQ. PINS	47	J1, J6, J7, J8, J9, J14	0304-00804-0010
TY-WRAP	1	P/O BATT-1	0017-00042-0622
P.C. BOARD	1	6803 CONTROL BOARD	A080-91786-G000

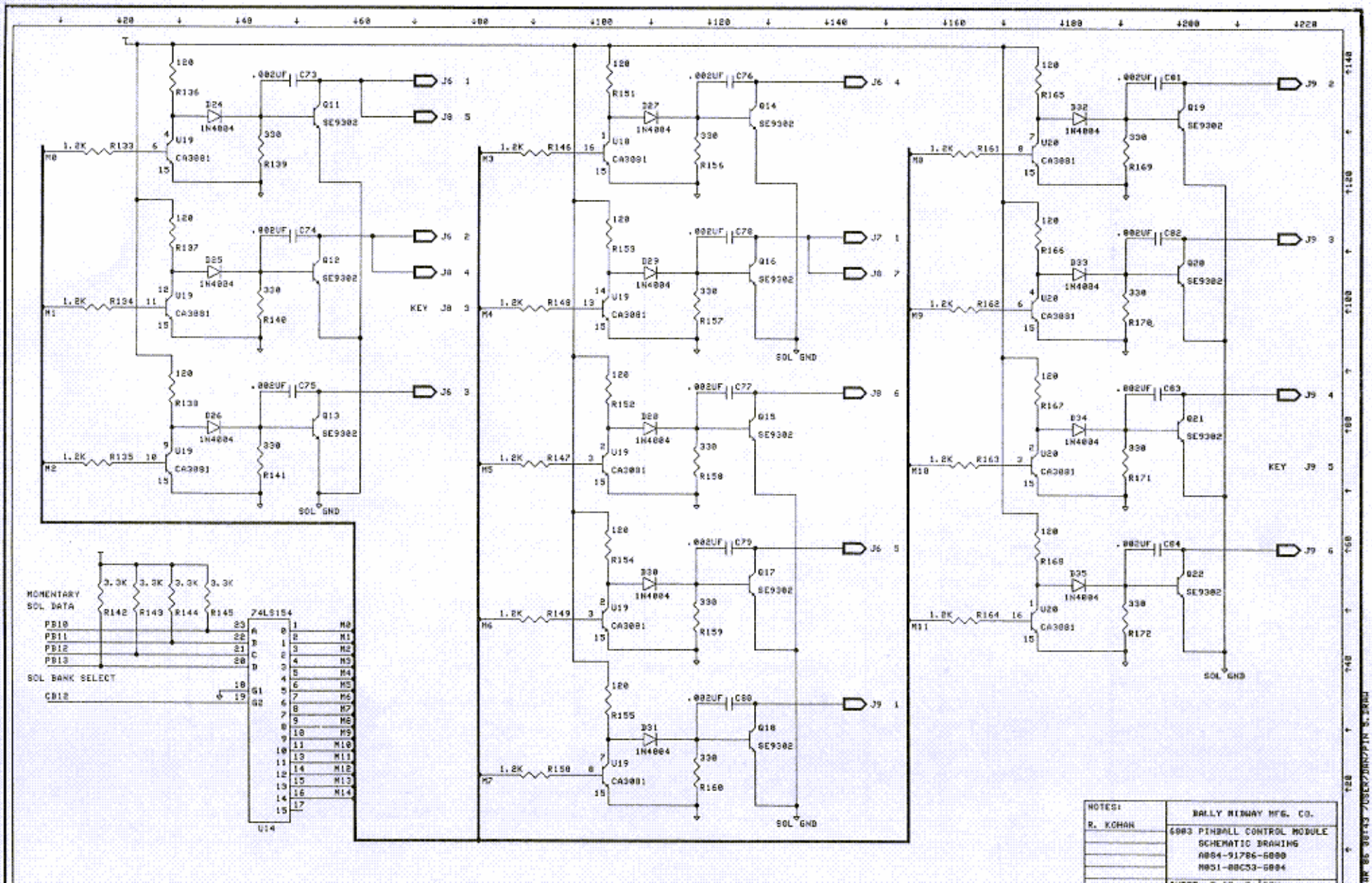
4-23-86 REV. 1.0 Fixed Part Number for 470PF Cap.

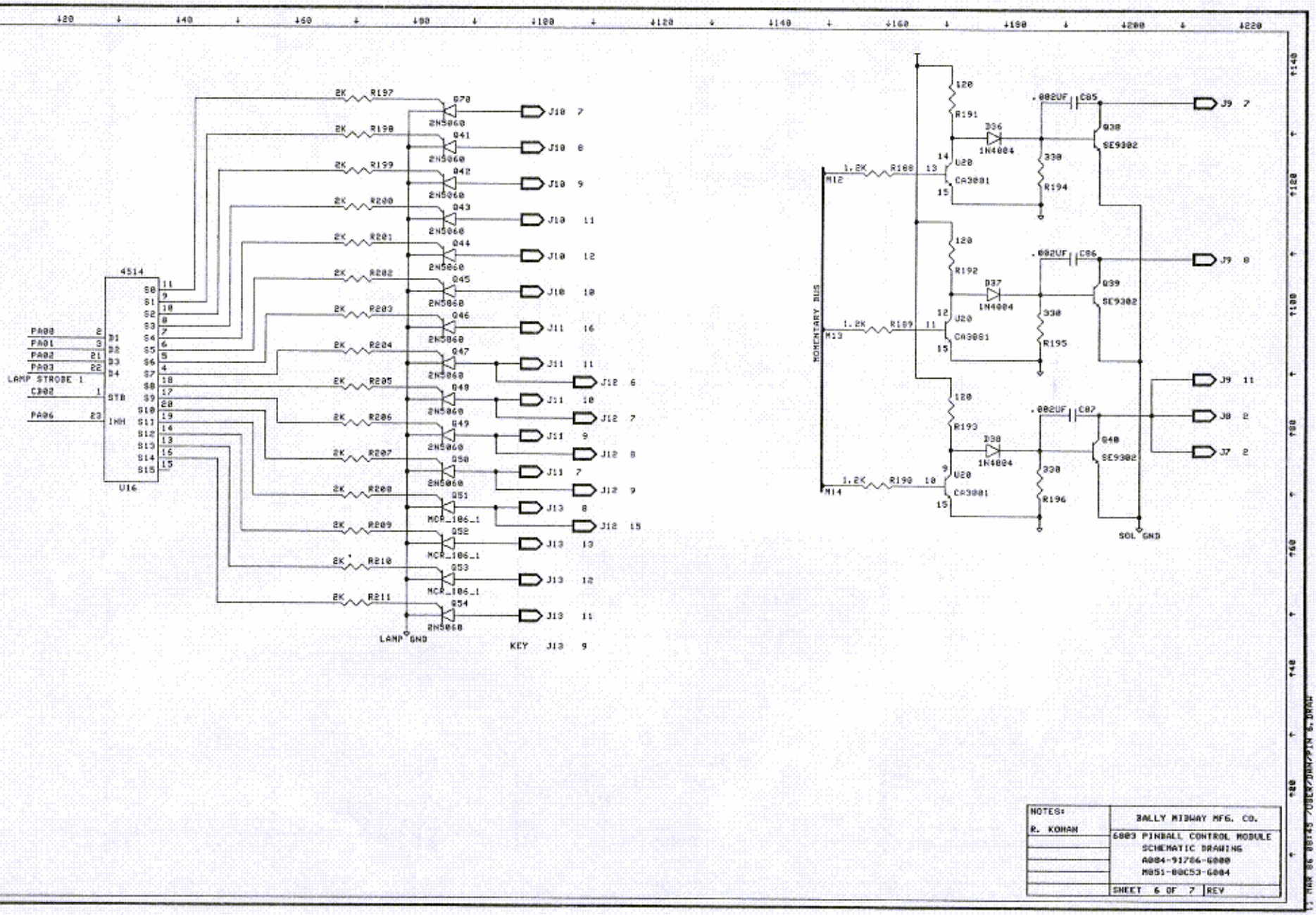

3.58MHz
MC6803
14-18VDC
DATA BUS
PROM0
PROM1
CMOS RAM
74HC245
74LS373
PERIPHERAL BUS
FOR 2732: JW1,3,5
2764: JW3
27128: JW2,4,6
BALLY MIDWAY MFG. CO.
6803 PINBALL CONTROL MODULE
SCHEMATIC DRAWING
A084-91786-G000
M051-00053-G004


PIA1
MC6821
PIA0
MC6821
5V
5V RETURN
UNREGULATED_5V
J1 5 KEY
TP1
TP2
TP3
TP4
V_AUX
FB1
FB2
FB3
FB4
470UF
.01UF
14-18VDC
1N4686
4.7VF
3.6V
NICAD
BATT1
4.7K
PHASE_A
PHASE_B
1N4148
14504
74L804
4011
DATA BUS
ADDRESS BUS
PA0 BUS
PB0 BUS
PA10
MOMENTARY SOL DATA
CONTINOUS SOL DATA
SOL BANK SELECT
SEGMENT DATA a
SEGMENT DATA b
SEGMENT DATA c
SEGMENT DATA d
SEGMENT DATA e
SEGMENT DATA f
SEGMENT DATA g
1.2K
470PF
6-30-86 CORRECTED PIA ADDRESSING (AGAIN). CMM
6-27-86 A6/A5 CORRECTED TO PIA5. CMM
NOTES!
R. KOHAN
BALLY MIDWAY MFG. CO.
6803 PINBALL CONTROL MODULE
SCHEMATIC DRAWING
A804-91786-6000
M851-00C53-6004
SHEET 2 OF 7
REV
30 JUN 86 13:19 /USER/JOHN/PIN2.DRW


CABINET SWITCH STROBE
PLAYFIELD SWITCH STROBE
DISPLAY LATCH STROBES
SELF TEST SWITCH
LAMP ADDRESS
LAMP DATA
DISPLAY BLANKING
DIGIT SELECT (BINARY)
KEY J2 15
N.U. J3 11
PA00 BUS
BALLY MIDWAY MFG. CO.
6803 PINBALL CONTROL MODULE
SCHEMATIC DRAWING
A034-91786-5000
A051-00053-0004
SHEET 3 OF 7
REV


BALLY MIDWAY MFG. CO.
6803 PINBALL CONTROL MODULE
SCHEMATIC DRAWING
A034-91786-6800
A051-00653-6804
SHEET 4 OF 7 REV
NOTES!
R. KOHAN
CABINET SWITCH RETURN
PLAYFIELD SWITCH RETURN
LAMP STROBE 1
KEY
N.U.
RIGHT FLIPPER COIL
LEFT FLIPPER COIL
LEFT FLIPPER SWITCH
RIGHT FLIPPER SWITCH
PERIPHERAL BUS
43-VDC
+5VDC
SOL 6H3


MOMENTARY SOL DATA
SOL BANK SELECT
74LS154
U14
KEY J8 3
KEY J9 5
SOL GND
BALLY MIDWAY MFG. CO.
6803 PINBALL CONTROL MODULE
SCHEMATIC DRAWING
A804-91786-6800
M051-00C53-6804
R. KOHAN


4514
U16
LAMP STROBE 1
LAMP GND
KEY J13 9
MOMENTARY BUS
SOL GND
BALLY MIDWAY MFG. CO.
6803 PINBALL CONTROL MODULE
SCHEMATIC DRAWING
A004-91784-G000
M051-00C53-G004
SHEET 6 OF 7
REV
NOTES:
R. KOHAN

LAMP DRIVER LOCATIONS

LAMP DRIVE

DRIVER	CONNECTOR	PIN	PHASE	WIRE	DESCRIPTION
Q37	J13	4	A	85	2X
Q54	J13	11	A	95	4X
Q69	J13	7	A	91	6X
Q48	J11	10	A	68	ANIMAL "A"
Q64	J11	2	A	58	ANIMAL "A"
Q32	J11	14	A	74	ANIMAL "I"
Q33	J11	15	A	75	ANIMAL "L"
Q49	J11	9	A	67	ANIMAL "M"
Q63	J11	3	A	59	ANIMAL "N"
Q50	J11	7	A	63	ANIMAL MARK
Q57	J10	18	A	43	BONUS 1 LEFT
Q57	J10	18	B	43	BONUS 1 RIGHT
Q26	J10	4	A	15	BONUS 2 LEFT
Q26	J10	4	B	15	BONUS 2 RIGHT
Q43	J10	11	A	31	BONUS 3 LEFT
Q43	J10	11	B	31	BONUS 3 RIGHT
Q58	J10	19	A	45	BONUS 4 LEFT
Q58	J10	19	B	45	BONUS 4 RIGHT
Q27	J10	5	A	18	BONUS 5 LEFT
Q2	J10	5	B	18	BONUS 5 RIGHT
Q44	J10	12	A	32	BONUS 6 LEFT
Q44	J10	12	B	32	BONUS 6 RIGHT
Q59	J10	14	A	37	BONUS 7 LEFT
Q59	J10	14	B	37	BONUS 7 RIGHT
Q28	J10	6	A	21	BONUS 8 LEFT
Q28	J10	6	B	21	BONUS 8 RIGHT
Q45	J10	10	A	28	BONUS 9 LEFT
Q45	J10	10	B	28	BONUS 9 RIGHT
Q60	J10	13	A	36	BONUS 10 LEFT
Q60	J10	13	B	36	BONUS 10 RIGHT
Q29	J11	8	A	64	BONUS 20 LEFT
Q29	J11	8	B	64	BONUS 20 RIGHT
Q46	J11	16	A	78	BONUS 30 LEFT
Q46	J11	16	B	78	BONUS 30 RIGHT
Q30	J11	12	B	72	BOTH BONUS
Q51	J13	8	C	93	BRIGHT GIRL LEFT
Q66	J13	6	D	87	BRIGHT GIRL RIGHT
Q35	J13	2	D	83	BRIGHT INLINES
Q34	J13	1	C	81	BRIGHT OUT TARGET
Q34	J13	1	D	81	BRIGHT TOP RIGHT
Q65	J11	1	D	48	BRIGHT PIG TARGETS
Q51	J13	8	D	93	BRIGHT SLINGSHOT LEFT
Q66	J13	6	C	87	BRIGHT SLINGSHOT RIGHT
Q35	J13	2	C	83	BRIGHT TOAD
Q65	J11	1	C	48	BRIGHT TOP LEFT

DRIVER	CONNECTOR	PIN	PHASE
Q55	J10	16	B
Q24	J10	2	B
Q70	J10	7	B
Q23	J10	1	B
Q61	J11	6	B
Q62	J11	4	B
Q47	J11	11	B
Q53	J13	12	A
Q68	J13	10	A
Q54	J13	11	B
Q36	J13	3	A
Q52	J13	13	B
Q67	J13	5	B
Q36	J13	3	B
Q53	J13	12	B
Q68	J13	10	B
Q70	J10	7	A
Q23	J10	1	A
Q30	J11	12	A
Q61	J11	6	A
Q47	J11	11	A
Q62	J11	4	A
Q31	J11	13	A
Q42	J10	9	A
Q67	J13	5	A
Q24	J10	2	A
Q55	J10	16	A
Q37	J13	4	B
Q52	J13	13	A
Q31	J11	13	B
Q48	J11	10	B
Q64	J11	2	B
Q63	J11	3	B
Q32	J11	14	B
Q49	J11	9	B
Q56	J10	17	B
Q25	J10	3	B
Q42	J10	9	B
Q41	J10	8	B
Q41	J10	8	A
Q56	J10	17	A
Q25	J10	3	A
Q33	J11	15	B
Q50	J11	7	B
Q69	J13	7	B

ENOID DRIVER LOCATIONS LISTING
-00H01-A031

OCATIONS

WIRE	DESCRIPTION
38	BUMPER BOTTOM
13	BUMPER FLASH
24	BUMPER MIDDLE
12	BUMPER TOP
62	DANCE BONUS
61	EXTRA BALL
71	FLASH JUKEBOX
96	GIRL LEFT
94	GIRL RIGHT
85	GREEN ARROW
84	INLINE SPECIAL
97	JUKEBOX 1
86	JUKEBOX 2
84	JUKEBOX 3
96	JUKEBOX 4
94	JUKEBOX 5
24	OUT BONUS LEFT
12	OUT BONUS RIGHT
72	PARTY "A"
62	PARTY "P"
71	PARTY "R"
61	PARTY "T"
73	PARTY "Y"
26	PARTY AGAIN
86	PARTY BONUS
13	RAMP BONUS LEFT
38	RAMP BONUS RIGHT
85	RED ARROW
97	SURPRISE PARTY
73	TARGET "G"
68	TARGET "I"
58	TARGET "O"
59	TARGET "P"
74	TARGET "T"
67	TARGET "U"
41	TOP 10K
14	TOP 25K
26	TOP 50K
25	TOP 5K
25	TUNE 1
41	TUNE 2
14	TUNE 3
75	VALUE 2 TIMES
63	VALUE 3 TIMES
91	YELLOW ARROW

SOLENOID DRIVER LOCATIONS

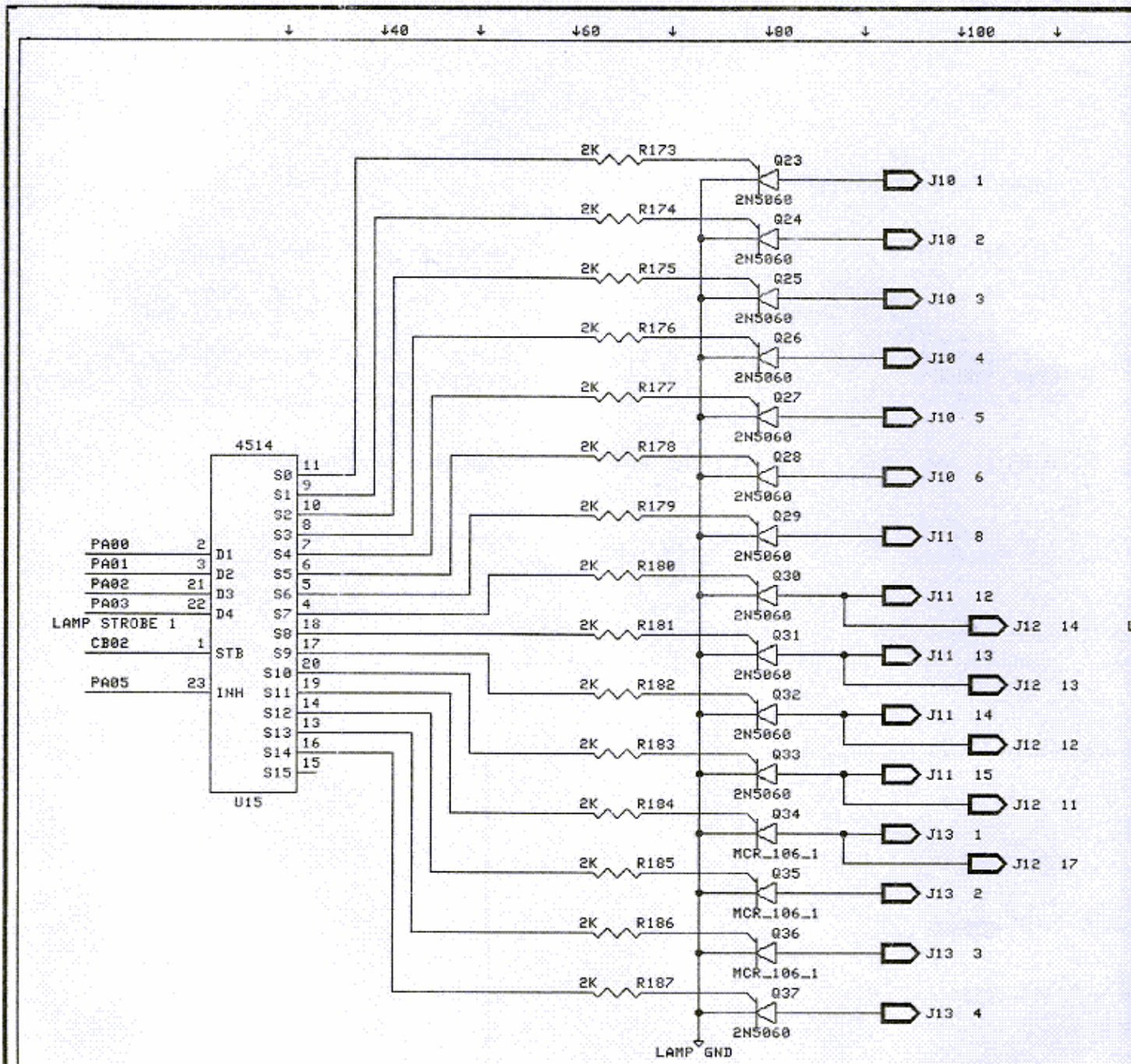
TRANSISTOR	CONNECTOR	PIN	WIRE	DESCRIPTION
Q22	J9	6	56	BALL EJECT
Q13	J6	3	34	BOTTOM BUMPER
Q19	J9	2	52	INLINE DROP TARGETS
Q40	J9	11	59	KNOCKER
Q18	J9	1	51	LEFT BOTTOM SAUCER
Q7	J6	8	90	LEFT FLIPPER
Q14	J6	4	35	LEFT SLINGSHOT
Q17	J6	5	36	LEFT TOP SAUCER
Q12	J6	2	32	MIDDLE BUMPER
Q39	J9	8	58	OUTHOLE
Q38	J9	7	57	RESERVED FOR GERMAN USE
Q7	J6	9	95	RIGHT FLIPPER
Q15	J8	6	25	RIGHT SAUCER
Q16	J8	7	27	RIGHT SLINGSHOT
Q11	J6	1	31	TOP BUMPER

WIRE COLOR CODE

1-RED	6-BROWN
2-BLUE	7-ORANGE
3-YELLOW	8-BLACK
4-GREEN	9-GREY
5-WHITE	0-NO TRACE
J-JUMPER	11-VIOLET

1-FIRST NUMBER-BODY COLOR
2-SECOND NUMBER-TRACER COLOR

EXAMPLE: 50-WHITE
51-WHITE/RED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4514
U15
PA00 2
PA01 3
PA02 21
PA03 22
LAMP STROBE 1
CB02 1
PA05 23
D1
D2
D3
D4
STB
INH
S0 11
S1 9
S2 10
S3 8
S4 7
S5 6
S6 5
S7 4
S8 18
S9 17
S10 20
S11 19
S12 14
S13 13
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2K R173
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2K R187
Q23 2N5060
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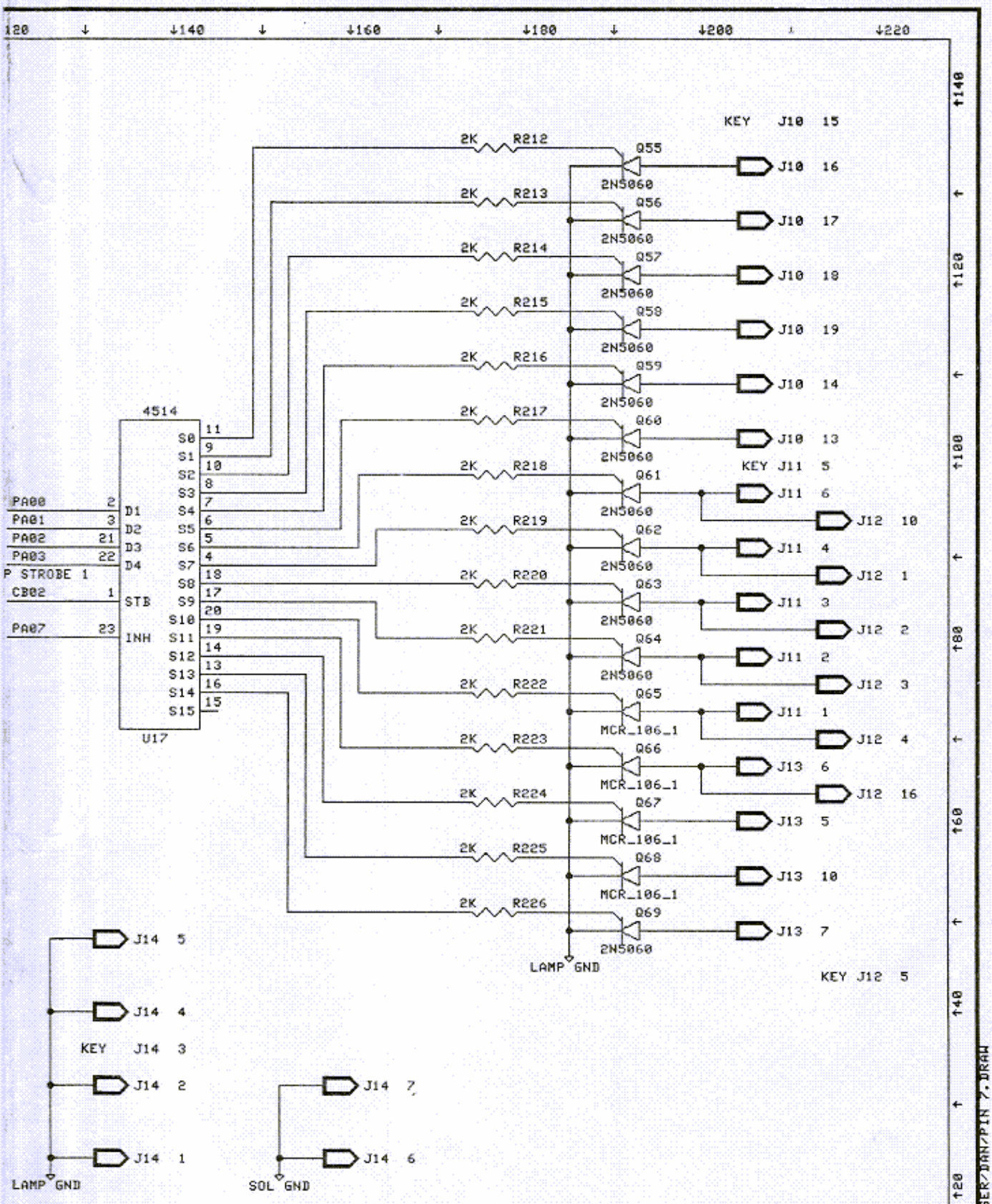
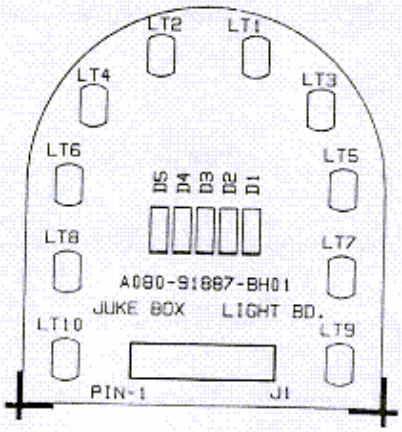
Q32 2N5060
Q33 2N5060
Q34 MCR_106_1
Q35 MCR_106_1
Q36 MCR_106_1
Q37 2N5060
LAMP GND
J10 1
J10 2
J10 3
J10 4
J10 5
J10 6
J11 8
J11 12
J12 14
J11 13
J12 13
J11 14
J12 12
J11 15
J12 11
J13 1
J12 17
J13 2
J13 3
J13 4

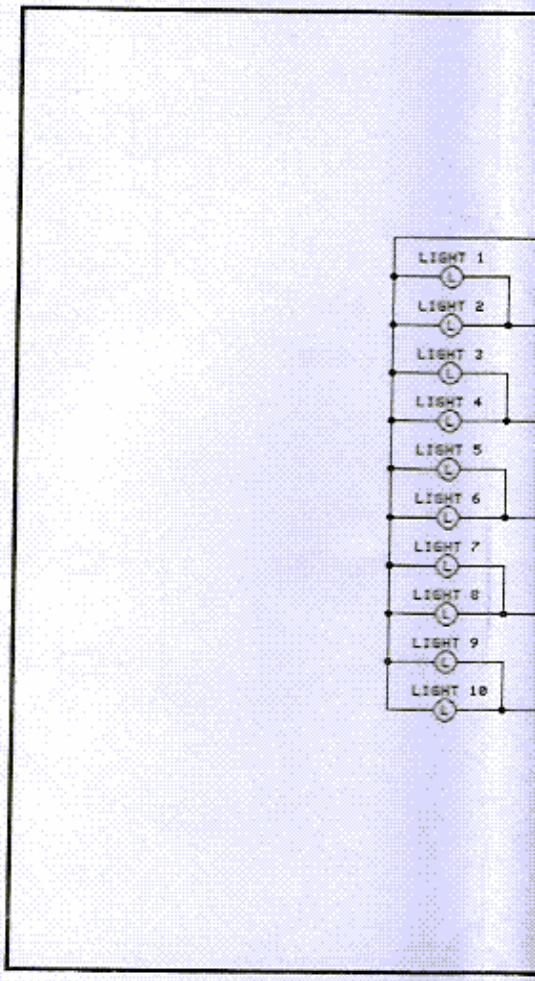

KEY J10 15
2K R212
Q55
2N5060
J10 16
2K R213
Q56
2N5060
J10 17
2K R214
Q57
2N5060
J10 18
2K R215
Q58
2N5060
J10 19
2K R216
Q59
2N5060
J10 14
4514
2K R217
Q60
2N5060
J10 13
KEY J11 5
2K R218
Q61
2N5060
J11 6
J12 10
PA00 2
PA01 3
PA02 21
PA03 22
P STROBE 1
CB02 1
PA07 23
D1
D2
D3
D4
STB
INH
S0 11
S1 9
S2 10
S3 8
S4 7
S5 6
S6 5
S7 4
S8 18
S9 17
S10 20
S11 19
S12 14
S13 13
S14 16
S15 15
U17
2K R219
Q62
2N5060
J11 4
J12 1
2K R220
Q63
2N5060
J11 3
J12 2
2K R221
Q64
2N5060
J11 2
J12 3
2K R222
Q65
MCR_106_1
J11 1
J12 4
2K R223
Q66
MCR_106_1
J13 6
J12 16
2K R224
Q67
MCR_106_1
J13 5
2K R225
Q68
MCR_106_1
J13 10
2K R226
Q69
2N5060
J13 7
LAMP GND
KEY J12 5
J14 5
J14 4
KEY J14 3
J14 2
J14 1
LAMP GND
J14 7
J14 6
SOL GND
NOTES:
R. KOHAN
BALLY MIDWAY MFG. CO.
6803 PINBALL CONTROL MODULE
SCHEMATIC DRAWING
A084-91786-G000
M051-00C53-G004
SHEET 7 OF 7
REV
11 MAR 86 08:46 /USER/DAN/PIN 7.DRAW



11/19/1	R.F.P.	CMH

REVISIONS

PROJECT ENG: C. MEDNICK			USED ON OHO!	Bally / MIDWAY MFG. CO. FRANKLIN PK. ILL.
DO NOT SCALE DWG.	HEAT TREAT	SCALE FULL	NO. REQ'D 1 PER	
DIM TOLERANCES UNLESS SPECIFIED: CONCENTRICITY .T.I.R. .001; FRACTIONAL ± 1/64; DECIMAL ± .005; HOLE DIA. + .002 .000	DRN. DBS 4/1/87	MAT'L.	ASSEMBLY DRAWING JUKE BOX LIGHT BD. (A084-91887-BH01)	PART NO. M051-00H01-B012
	CKD.	FINISH		
	DATE / /			



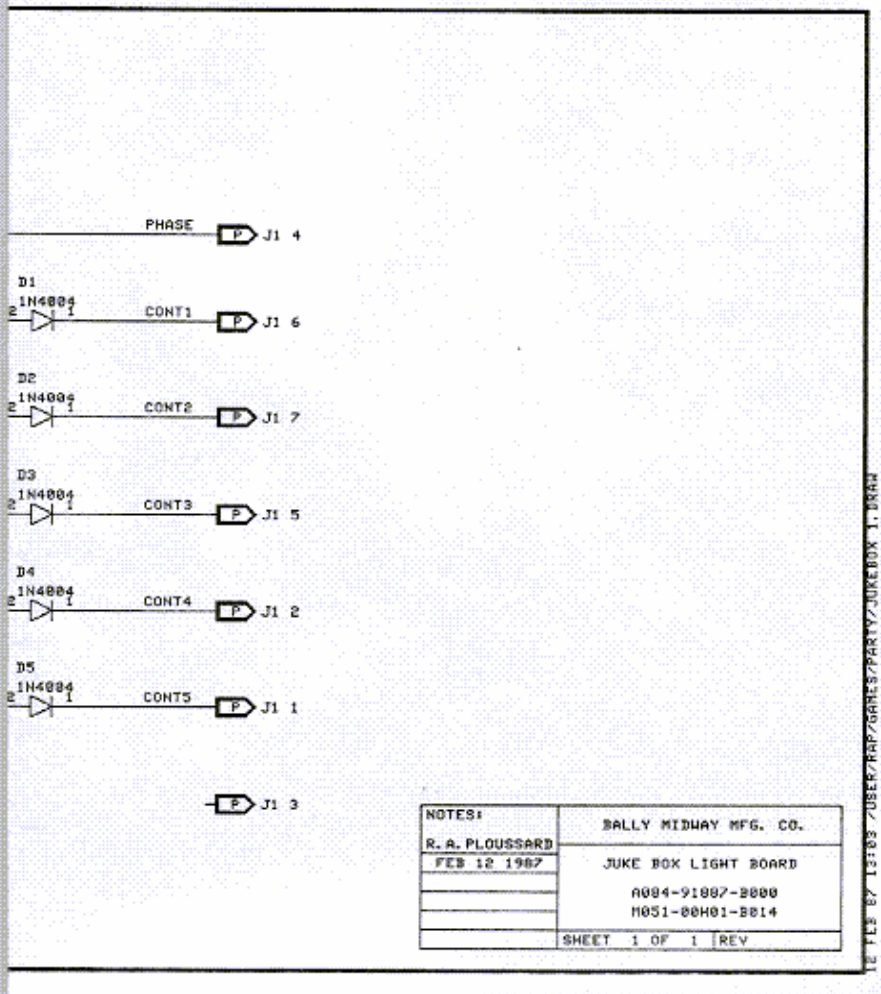
Juke Box Light
A084-91887-BH01
M051-00H01-B013

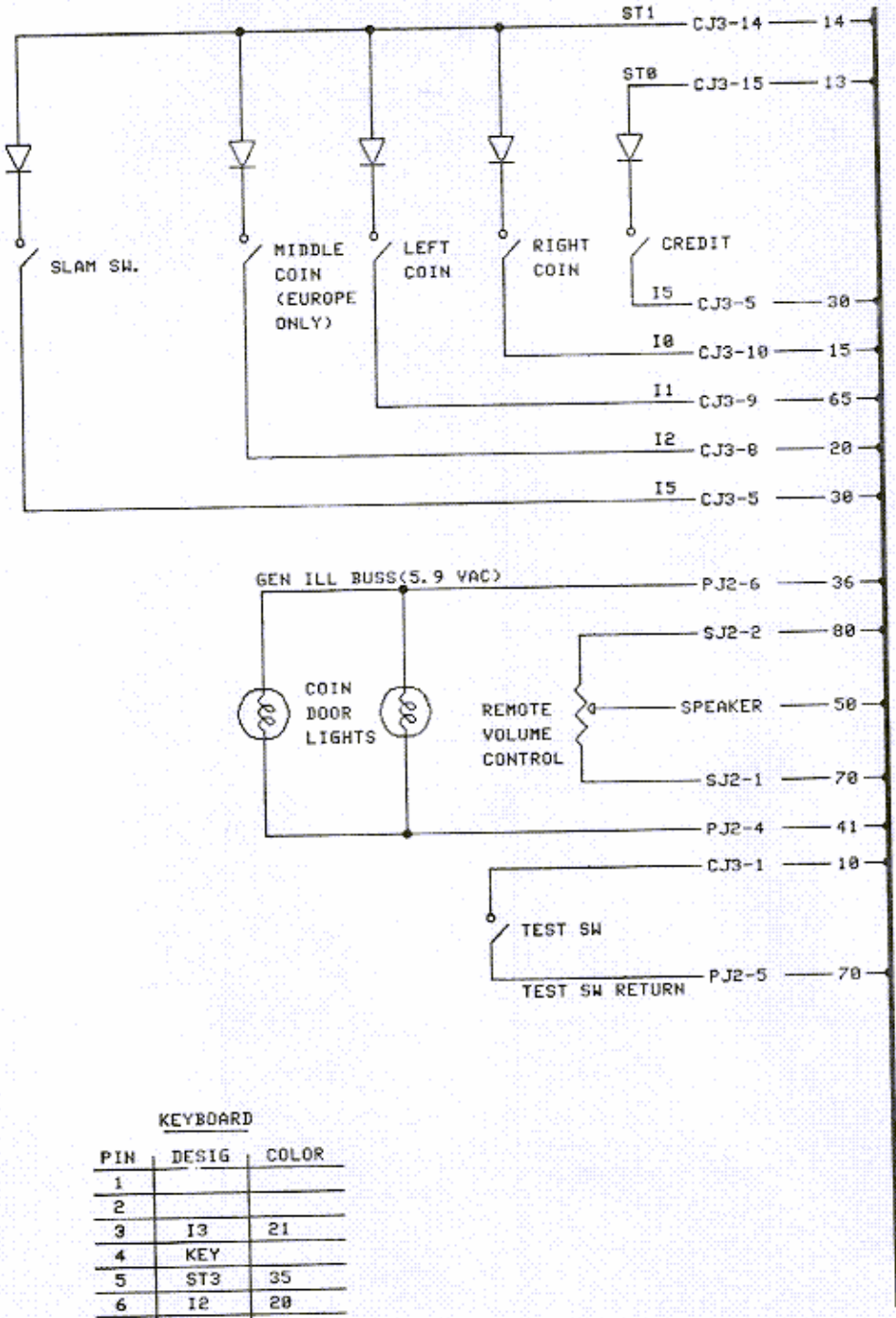
CROSS REFERENCE LIST

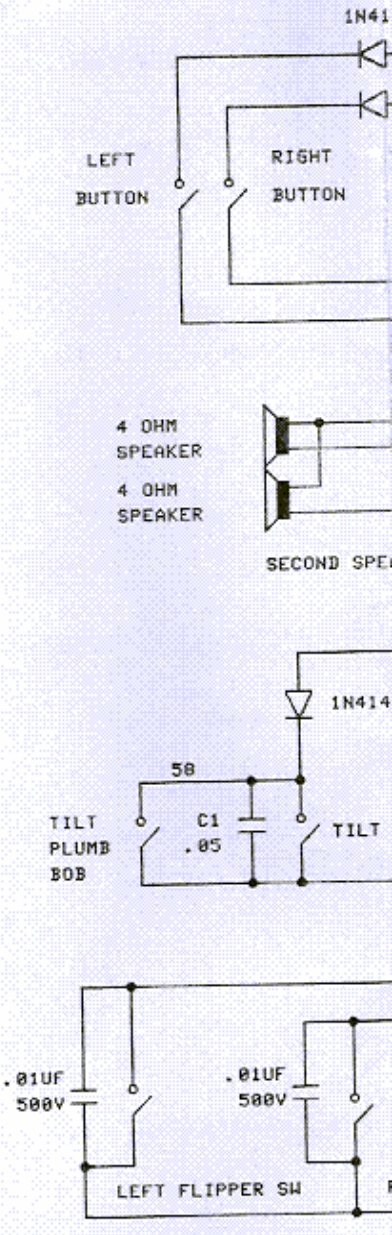
DESCRIPTION	QTY.	DESIGNATION NO.	PART NUMBER
1N4004 DIODE	5	D1-D5	103E-00003-0005
.156 RIGHT ANGLE HEADER, OMIT PIN 3	1	J1	0017-00021-1845
6.3 VOLT LAMP	10	LT1-LT10	0E14-00804-0001 *
LAMP SOCKET	10	MHLT1-MHLT10	0017-00031-0062 *
PC BOARD	1		A080-91887-BH01

* NOTE: THE LAMP AND SOCKET ARE PART OF AN ASSEMBLY #AE14-00039-0000

4/1/87 RELEASED FOR PRODUCTION. CMM

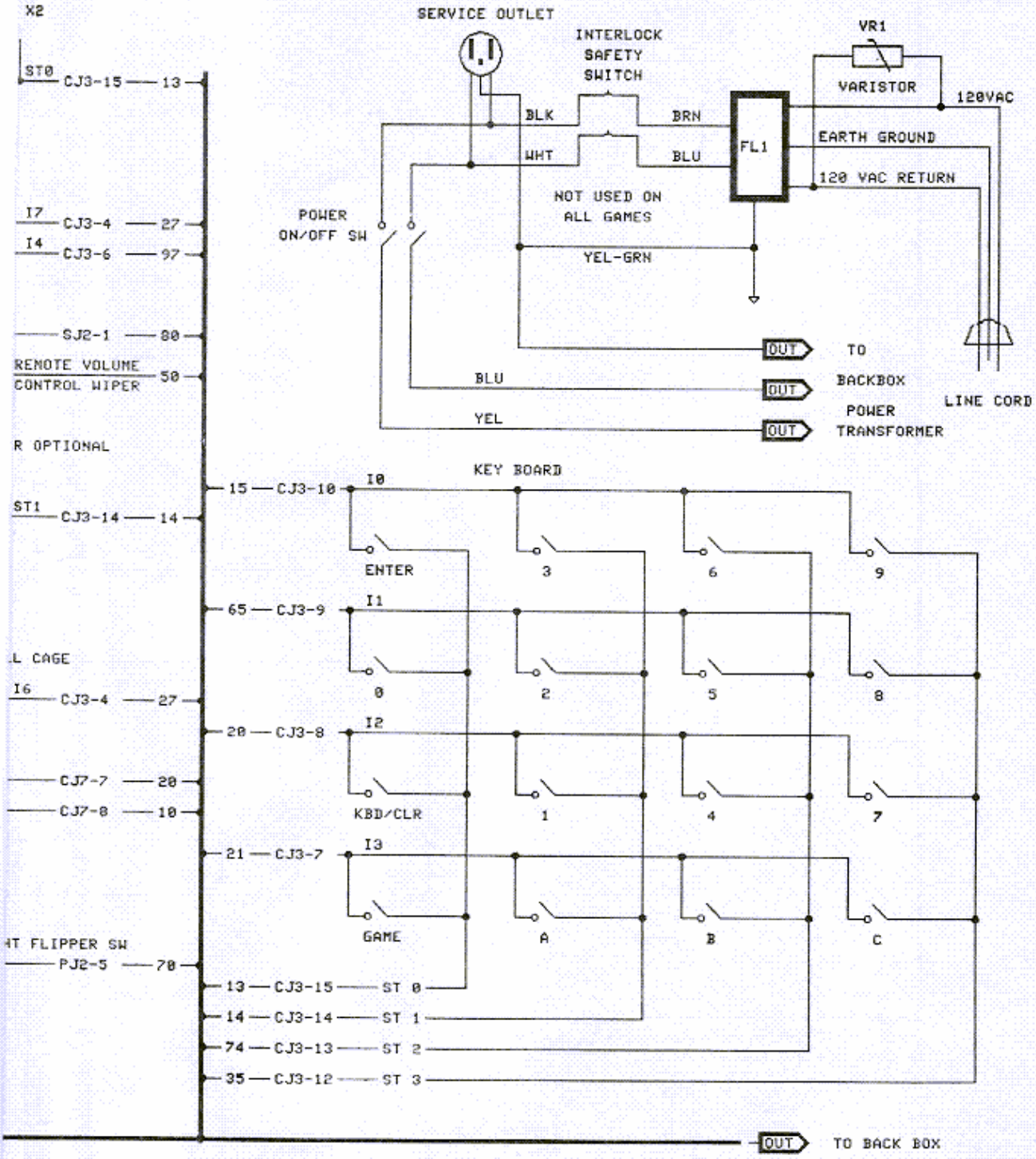






KEYBOARD

PIN	DESIG	COLOR
1		
2		
3	I3	21
4	KEY	
5	ST3	35
6	I2	20
7		
8	ST2	74
9		
10	I1	65
11	ST1	14
12		
13	I0	15
14		
15	ST0	13

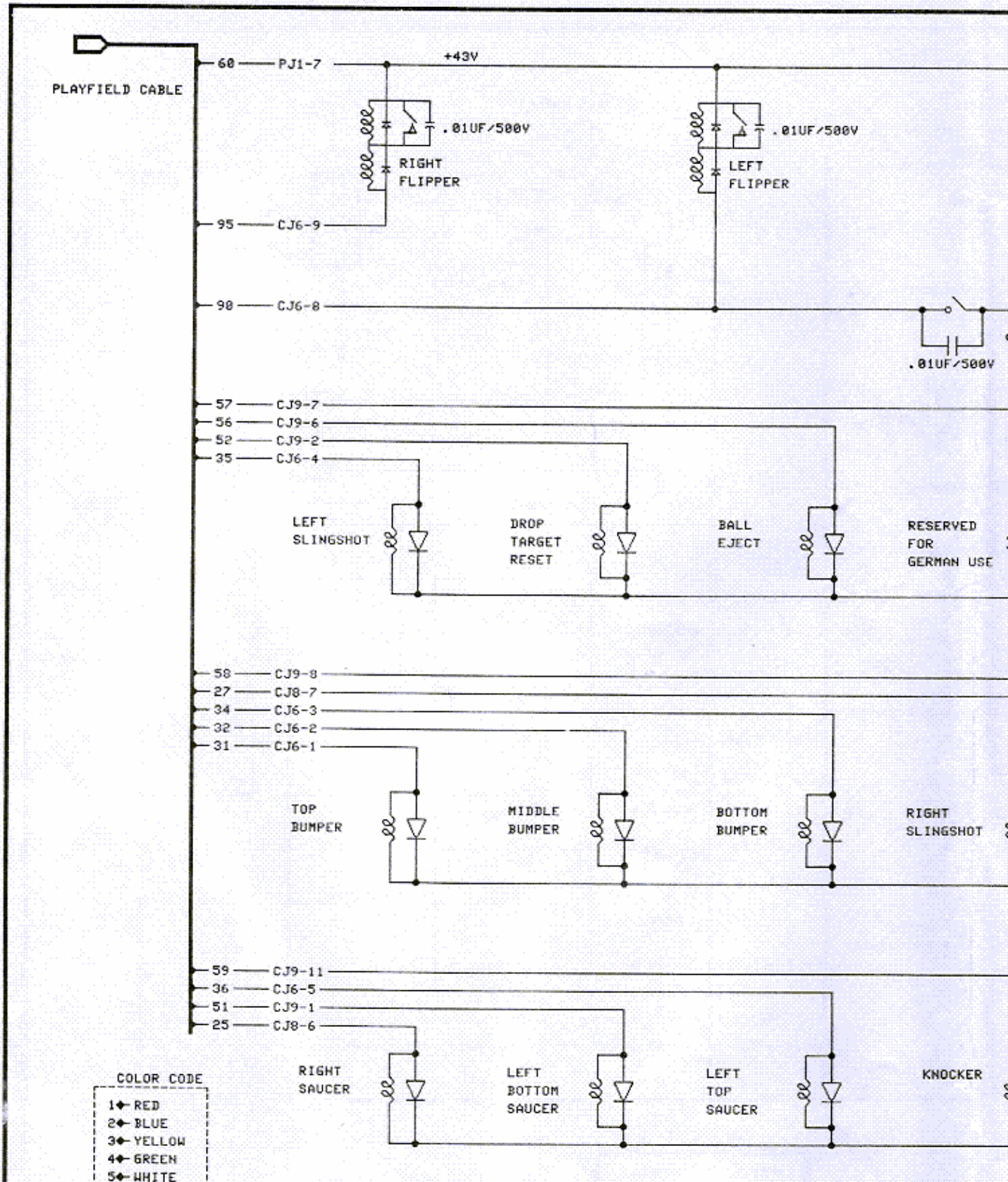


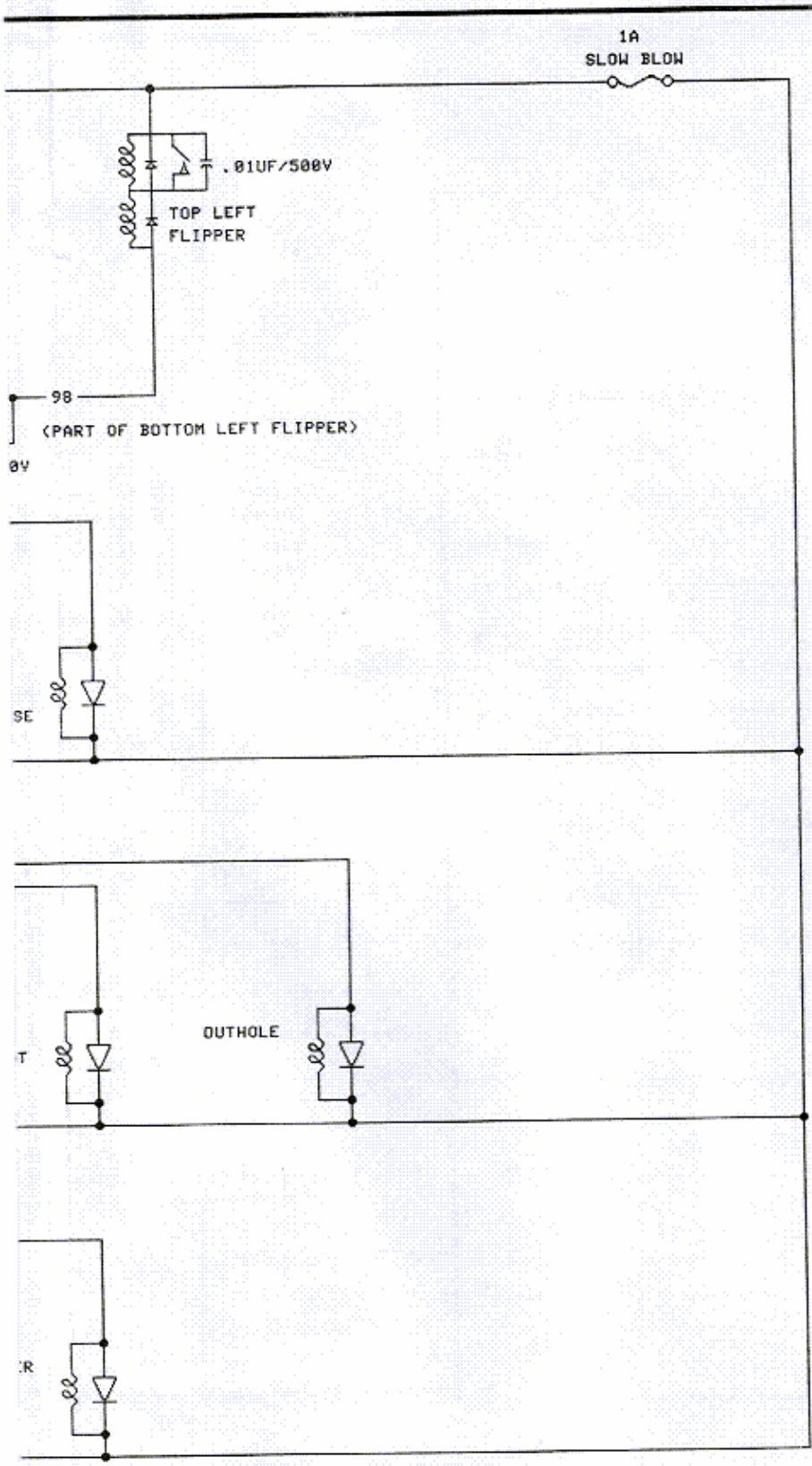
COLOR CODE

1=RED	7=ORANGE
2=BLUE	8=BLACK
3=YELLOW	9=GRAY
4=GREEN	0=NO TRACE
5=WHITE	11=VIOLET
6=BROWN	

NOTES:	BALLY MIDWAY MFG. CO.
D. STERN	PARTY ANIMAL CABINET DIAGRAM M051-00H01-A003
3/30/87	
	SHEET 1 OF 1 REV

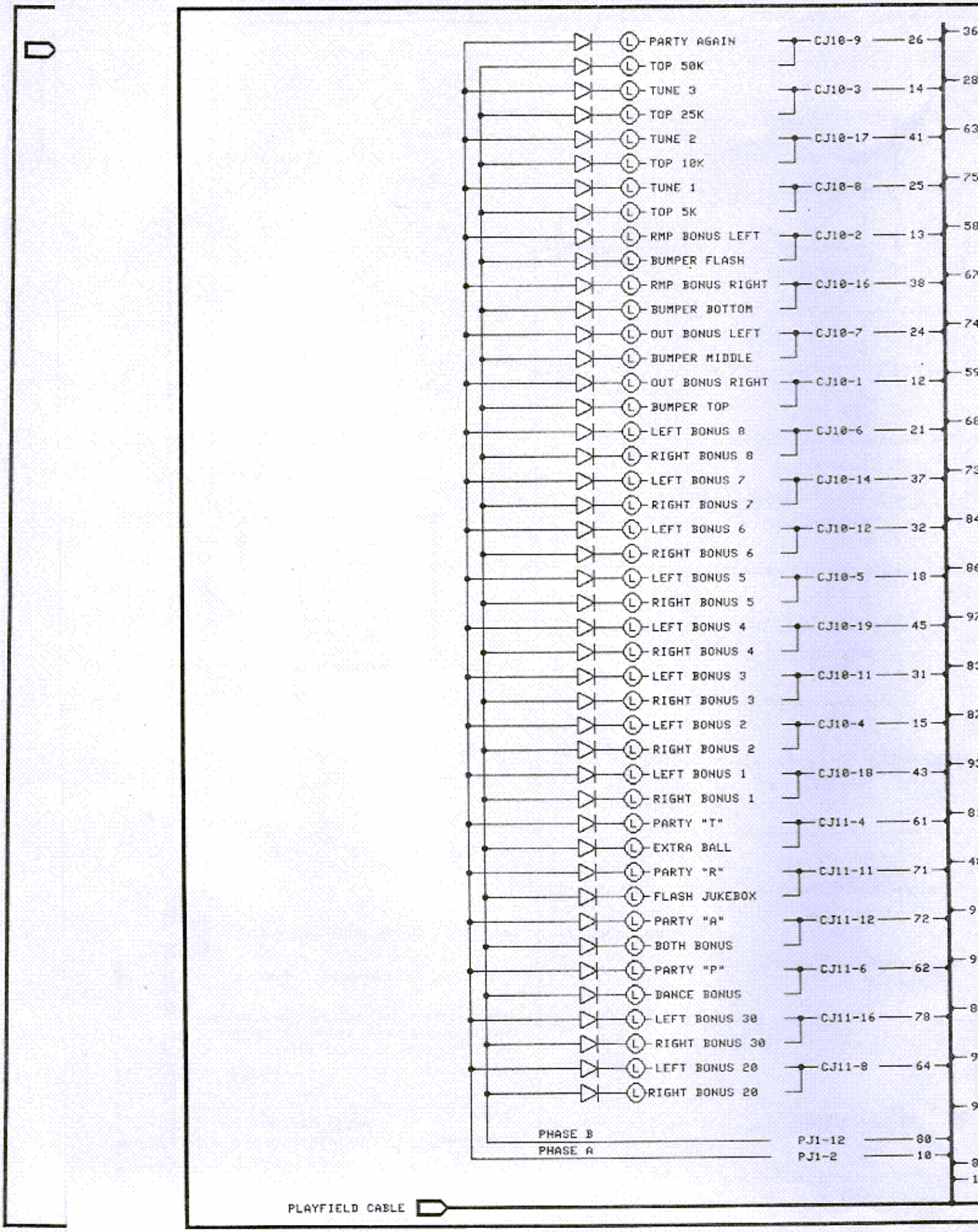
28 APR 87 07:23 /USER/DAN/ANIMAL/CABINET 1.DRAW

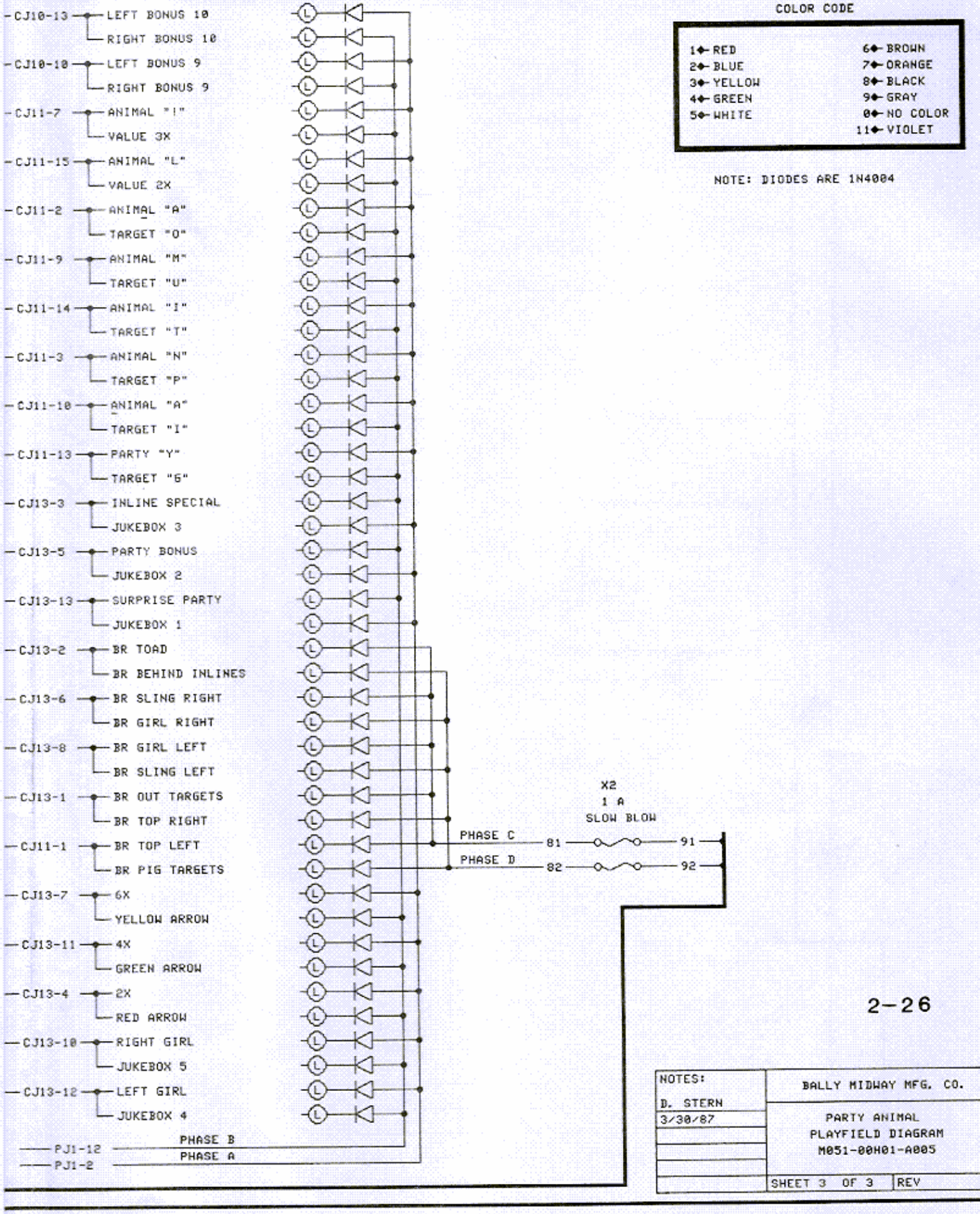

PLAYFIELD CABLE
60 PJ1-7
+43V
.01UF/500V
RIGHT FLIPPER
.01UF/500V
LEFT FLIPPER
95 CJ6-9
90 CJ6-8
.01UF/500V
57 CJ9-7
56 CJ9-6
52 CJ9-2
35 CJ6-4
LEFT SLINGSHOT
DROP TARGET RESET
BALL EJECT
RESERVED FOR GERMAN USE
58 CJ9-8
27 CJ8-7
34 CJ6-3
32 CJ6-2
31 CJ6-1
TOP BUMPER
MIDDLE BUMPER
BOTTOM BUMPER
RIGHT SLINGSHOT
59 CJ9-11
36 CJ6-5
51 CJ9-1
25 CJ8-6
RIGHT SAUCER
LEFT BOTTOM SAUCER
LEFT TOP SAUCER
KNOCKER
COLOR CODE
1 RED
2 BLUE
3 YELLOW
4 GREEN
5 WHITE
6 BROWN
7 ORANGE
8 BLACK
9 GRAY
0 NO COLOR
11 VIOLET

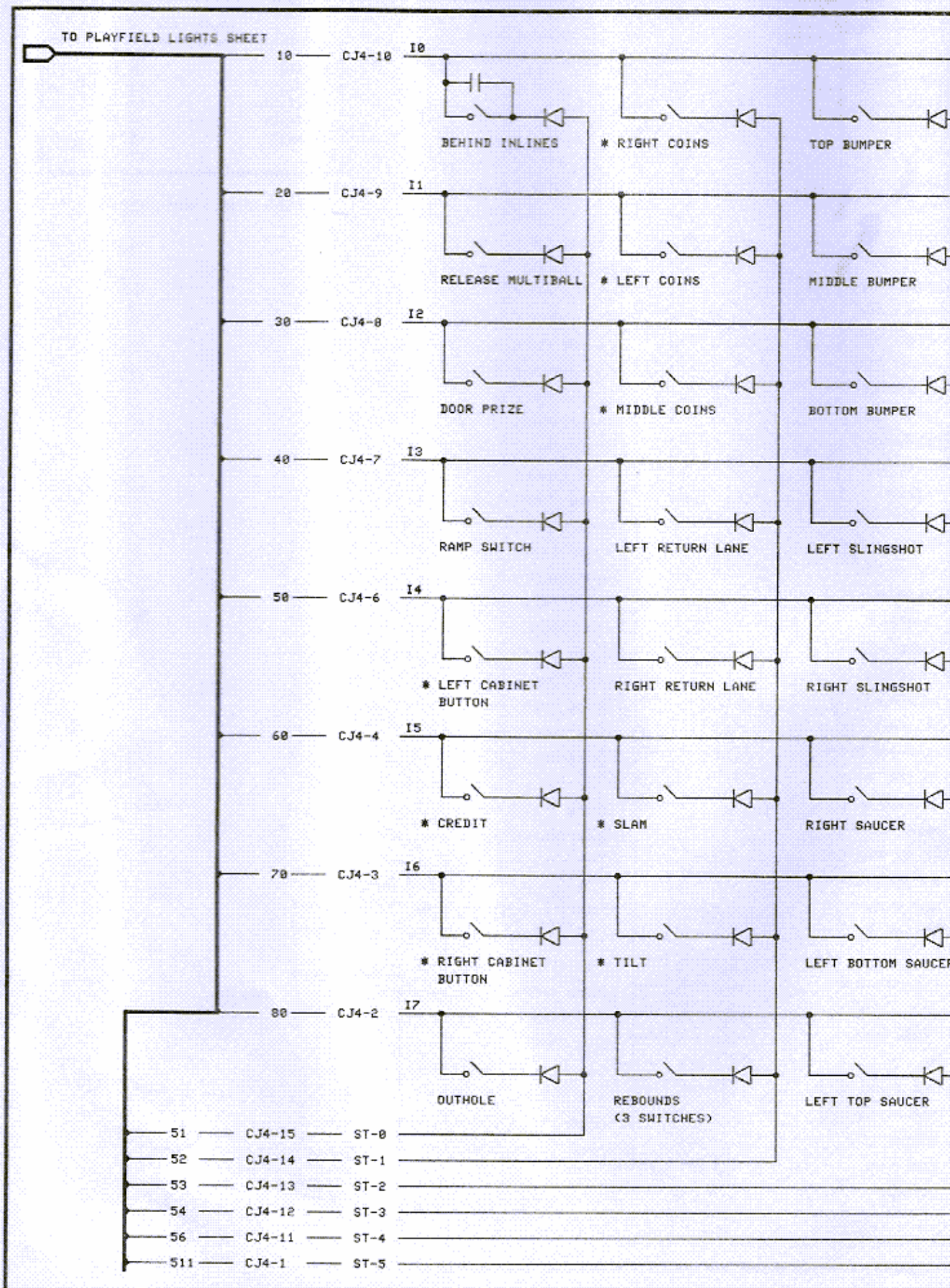


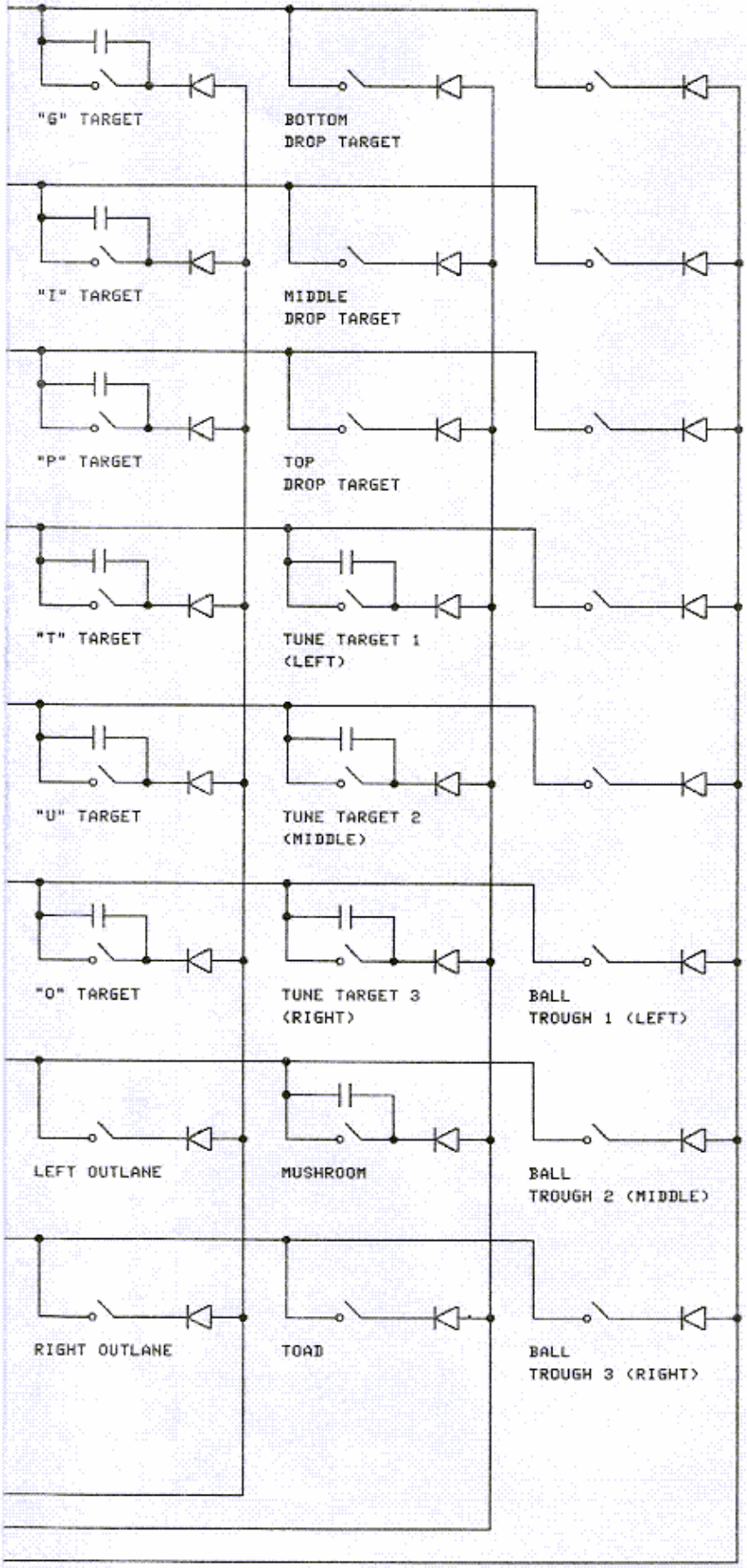
NOTES:	BALLY MIDWAY MFG. CO.
D. STERN	PARTY ANIMAL PLAYFIELD DIAGRAM M051-00H01-A005
3/30/87	
	SHEET 1 OF 3 REV

28 APR 87 07:19 /USER/DAN/ANIMAL/PLAYFIELD 1.DRAW


PARTY AGAIN
TOP 50K
TUNE 3
TOP 25K
TUNE 2
TOP 10K
TUNE 1
TOP 5K
RMP BONUS LEFT
BUMPER FLASH
RMP BONUS RIGHT
BUMPER BOTTOM
OUT BONUS LEFT
BUMPER MIDDLE
OUT BONUS RIGHT
BUMPER TOP
LEFT BONUS 8
RIGHT BONUS 8
LEFT BONUS 7
RIGHT BONUS 7
LEFT BONUS 6
RIGHT BONUS 6
LEFT BONUS 5
RIGHT BONUS 5
LEFT BONUS 4
RIGHT BONUS 4
LEFT BONUS 3
RIGHT BONUS 3
LEFT BONUS 2
RIGHT BONUS 2
LEFT BONUS 1
RIGHT BONUS 1
PARTY "T"
EXTRA BALL
PARTY "R"
FLASH JUKEBOX
PARTY "A"
BOTH BONUS
PARTY "P"
DANCE BONUS
LEFT BONUS 30
RIGHT BONUS 30
LEFT BONUS 20
RIGHT BONUS 20
CJ10-9 26
CJ10-3 14
CJ10-17 41
CJ10-8 25
CJ10-2 13
CJ10-16 38
CJ10-7 24
CJ10-1 12
CJ10-6 21
CJ10-14 37
CJ10-12 32
CJ10-5 18
CJ10-19 45
CJ10-11 31
CJ10-4 15
CJ10-18 43
CJ11-4 61
CJ11-11 71
CJ11-12 72
CJ11-6 62
CJ11-16 78
CJ11-8 64
PHASE B
PHASE A
PJ1-12 80
PJ1-2 10
PLAYFIELD CABLE


CJ10-13
LEFT BONUS 10
RIGHT BONUS 10
CJ10-10
LEFT BONUS 9
RIGHT BONUS 9
CJ11-7
ANIMAL "I"
VALUE 3X
CJ11-15
ANIMAL "L"
VALUE 2X
CJ11-2
ANIMAL "A"
TARGET "O"
CJ11-9
ANIMAL "M"
TARGET "U"
CJ11-14
ANIMAL "I"
TARGET "T"
CJ11-3
ANIMAL "N"
TARGET "P"
CJ11-10
ANIMAL "A"
TARGET "I"
CJ11-13
PARTY "Y"
TARGET "S"
CJ13-3
INLINE SPECIAL
JUKEBOX 3
CJ13-5
PARTY BONUS
JUKEBOX 2
CJ13-13
SURPRISE PARTY
JUKEBOX 1
CJ13-2
BR TOAD
BR BEHIND INLINES
CJ13-6
BR SLING RIGHT
BR GIRL RIGHT
CJ13-8
BR GIRL LEFT
BR SLING LEFT
CJ13-1
BR OUT TARGETS
BR TOP RIGHT
CJ11-1
BR TOP LEFT
BR PIG TARGETS
CJ13-7
6X
YELLOW ARROW
CJ13-11
4X
GREEN ARROW
CJ13-4
2X
RED ARROW
CJ13-10
RIGHT GIRL
JUKEBOX 5
CJ13-12
LEFT GIRL
JUKEBOX 4
PJ1-12
PJ1-2
PHASE B
PHASE A
X2
1 A
SLOW BLOW
PHASE C
PHASE D
81
82
91
92
COLOR CODE
1 RED
2 BLUE
3 YELLOW
4 GREEN
5 WHITE
6 BROWN
7 ORANGE
8 BLACK
9 GRAY
0 NO COLOR
11 VIOLET
NOTE: DIODES ARE 1N4004
2-26
NOTES:
D. STERN
3/30/87
BALLY MIDWAY MFG. CO.
PARTY ANIMAL
PLAYFIELD DIAGRAM
M051-00H01-A005
SHEET 3 OF 3
REV


TO PLAYFIELD LIGHTS SHEET
10 CJ4-10 I0
BEHIND INLINES
* RIGHT COINS
TOP BUMPER
20 CJ4-9 I1
RELEASE MULTIBALL
* LEFT COINS
MIDDLE BUMPER
30 CJ4-8 I2
DOOR PRIZE
* MIDDLE COINS
BOTTOM BUMPER
40 CJ4-7 I3
RAMP SWITCH
LEFT RETURN LANE
LEFT SLINGSHOT
50 CJ4-6 I4
* LEFT CABINET BUTTON
RIGHT RETURN LANE
RIGHT SLINGSHOT
60 CJ4-4 I5
* CREDIT
* SLAM
RIGHT SAUCER
70 CJ4-3 I6
* RIGHT CABINET BUTTON
* TILT
LEFT BOTTOM SAUCER
80 CJ4-2 I7
OUTHOLE
REBOUNDS (3 SWITCHES)
LEFT TOP SAUCER
51 CJ4-15 ST-0
52 CJ4-14 ST-1
53 CJ4-13 ST-2
54 CJ4-12 ST-3
56 CJ4-11 ST-4
511 CJ4-1 ST-5



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

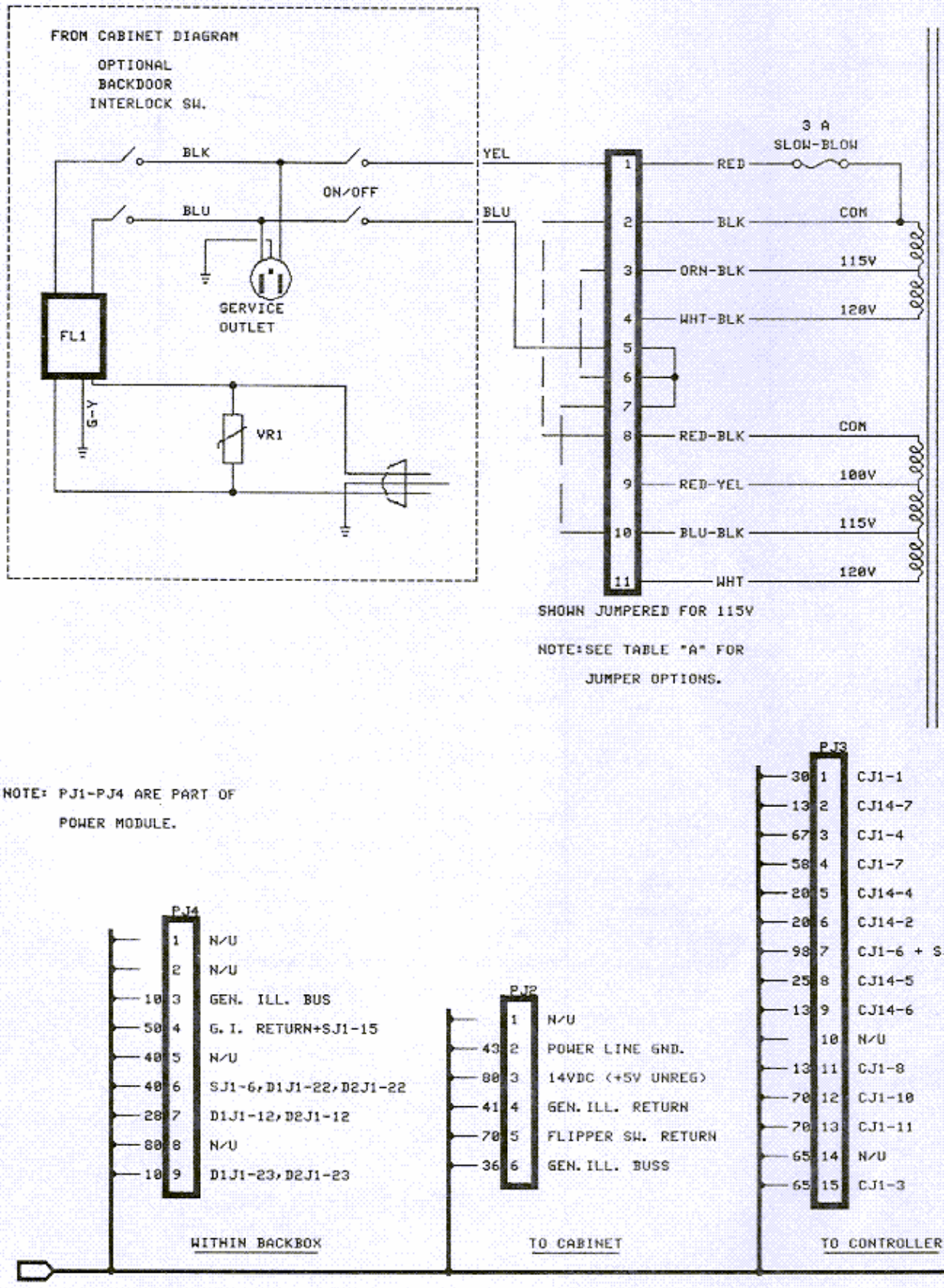
NOTE 1. ALL SWITCH DIODES ARE 1N4148

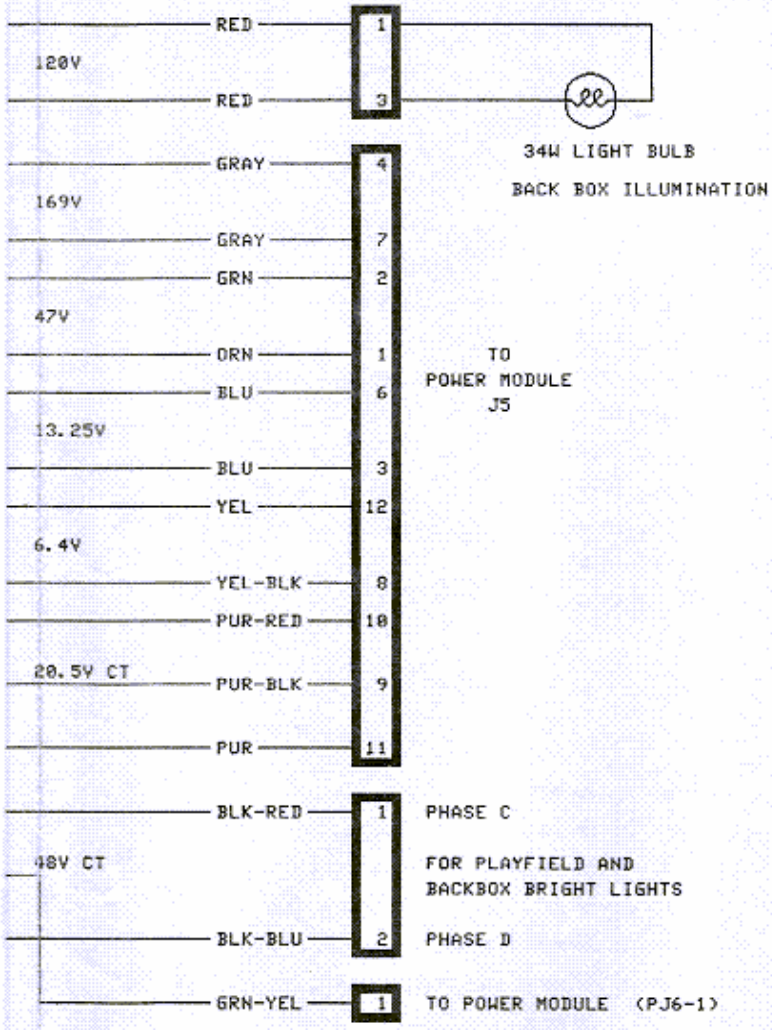
NOTE 2. ALL CAPACITORS ARE .05 MF

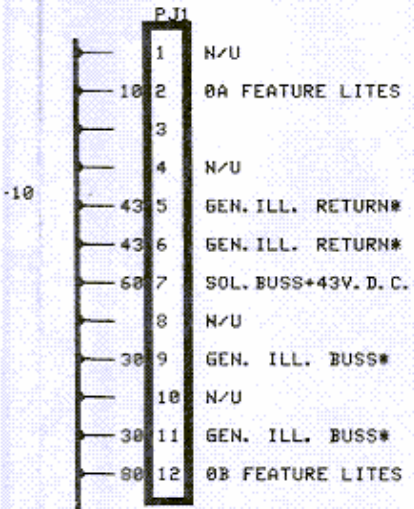
NOTE 3. * INDICATES NOT USED ON PLAYFIELD. DRAWING ONLY TO SHOW RESPECTIVE CABINET SWITCH POSITION IN SWITCH MATRIX.

NOTES:	BALLY MIDWAY MFG. CO.	
5/28/87		
D. STERN	PARTY ANIMAL PLAYFIELD DIAGRAM M051-00H01-A005	
	SHEET 2 OF 3	REV

28 APR 87 11:05 /$ST6/USER/DAN/ANIMAL/PLAYFIELD 2.DRAW


FROM CABINET DIAGRAM
OPTIONAL
BACKDOOR
INTERLOCK SW.
BLK
BLU
ON/OFF
SERVICE
OUTLET
FL1
G-Y
VR1
YEL
BLU
3 A
SLOW-BLOW
RED
BLK
COM
ORN-BLK
115V
WHT-BLK
120V
RED-BLK
COM
RED-YEL
100V
BLU-BLK
115V
WHT
120V
SHOWN JUMPERED FOR 115V
NOTE:SEE TABLE "A" FOR
JUMPER OPTIONS.
NOTE: PJ1-PJ4 ARE PART OF
POWER MODULE.
PJ4
1 N/U
2 N/U
10 3 GEN. ILL. BUS
50 4 G.I. RETURN+SJ1-15
40 5 N/U
40 6 SJ1-6,D1J1-22,D2J1-22
28 7 D1J1-12,D2J1-12
80 8 N/U
10 9 D1J1-23,D2J1-23
WITHIN BACKBOX
PJ2
1 N/U
43 2 POWER LINE GND.
80 3 14VDC (+5V UNREG)
41 4 GEN. ILL. RETURN
70 5 FLIPPER SW. RETURN
36 6 GEN. ILL. BUSS
TO CABINET
PJ3
30 1 CJ1-1
13 2 CJ14-7
67 3 CJ1-4
58 4 CJ1-7
20 5 CJ14-4
20 6 CJ14-2
98 7 CJ1-6 + S
25 8 CJ14-5
13 9 CJ14-6
10 N/U
13 11 CJ1-8
70 12 CJ1-10
70 13 CJ1-11
65 14 N/U
65 15 CJ1-3
TO CONTROLLER





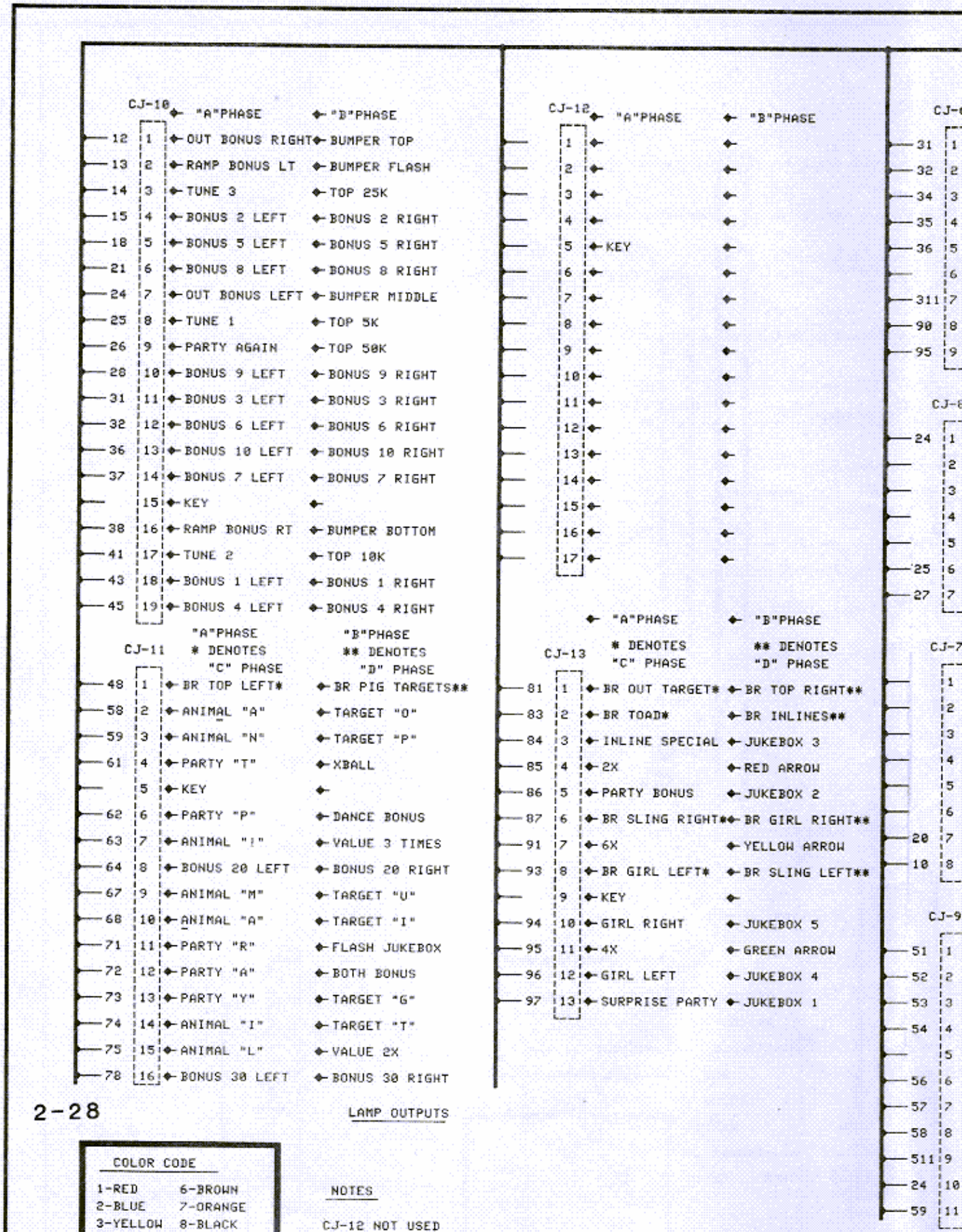
*=21 GI LAMPS

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

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

NOTES:	BALLY MIDWAY MFG. CO.	
D. STERN		
3/27/87	PARTY ANIMAL BACKBOX	
	M051-0H01-A006	
	SHEET 1 OF 3	REV

29 APR 87 07:25 /USER/DAN/ANIMAL/BACKBOX 1.DRAW



LAMP OUTPUTS

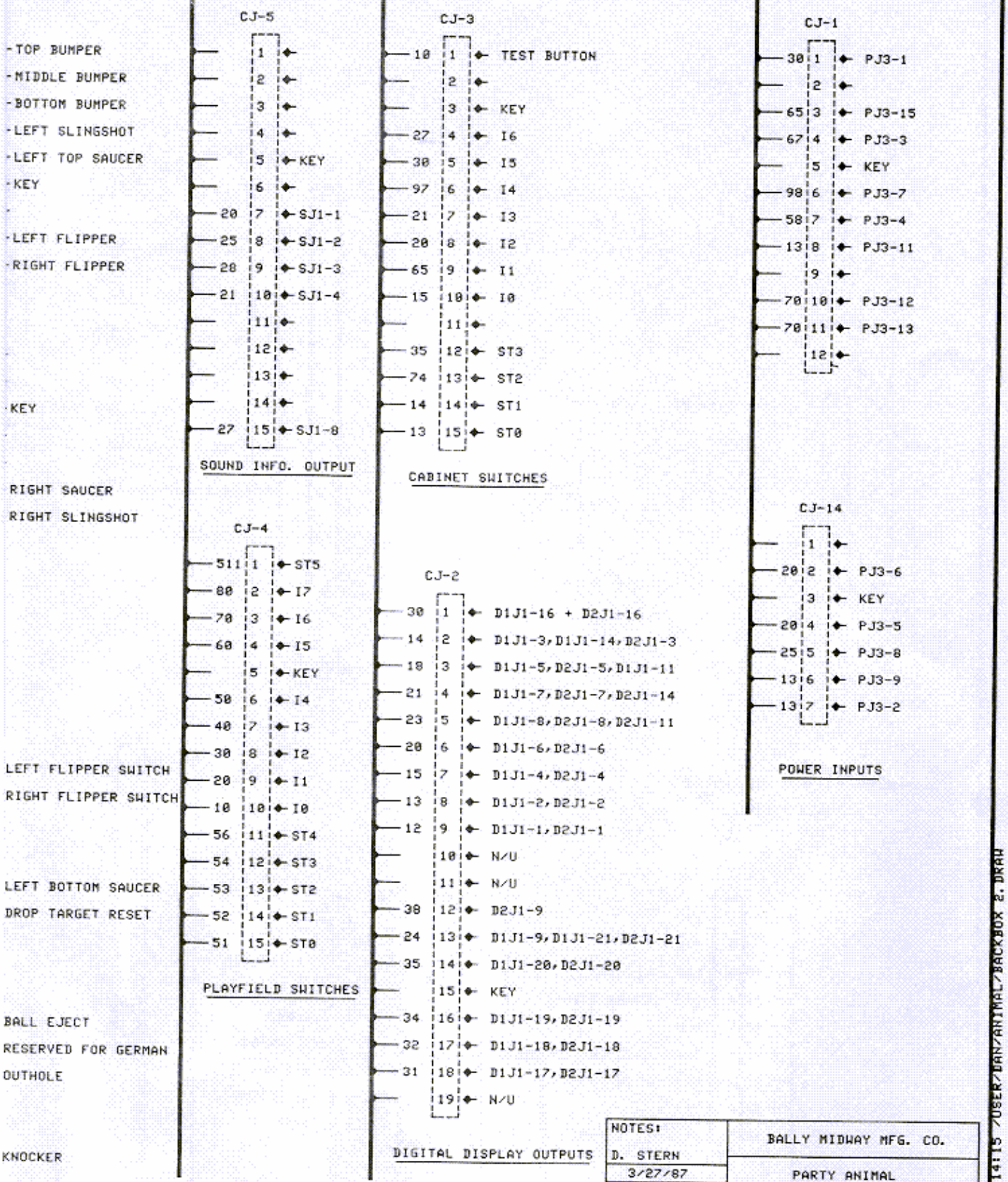
SOLENOID O

COLOR CODE

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

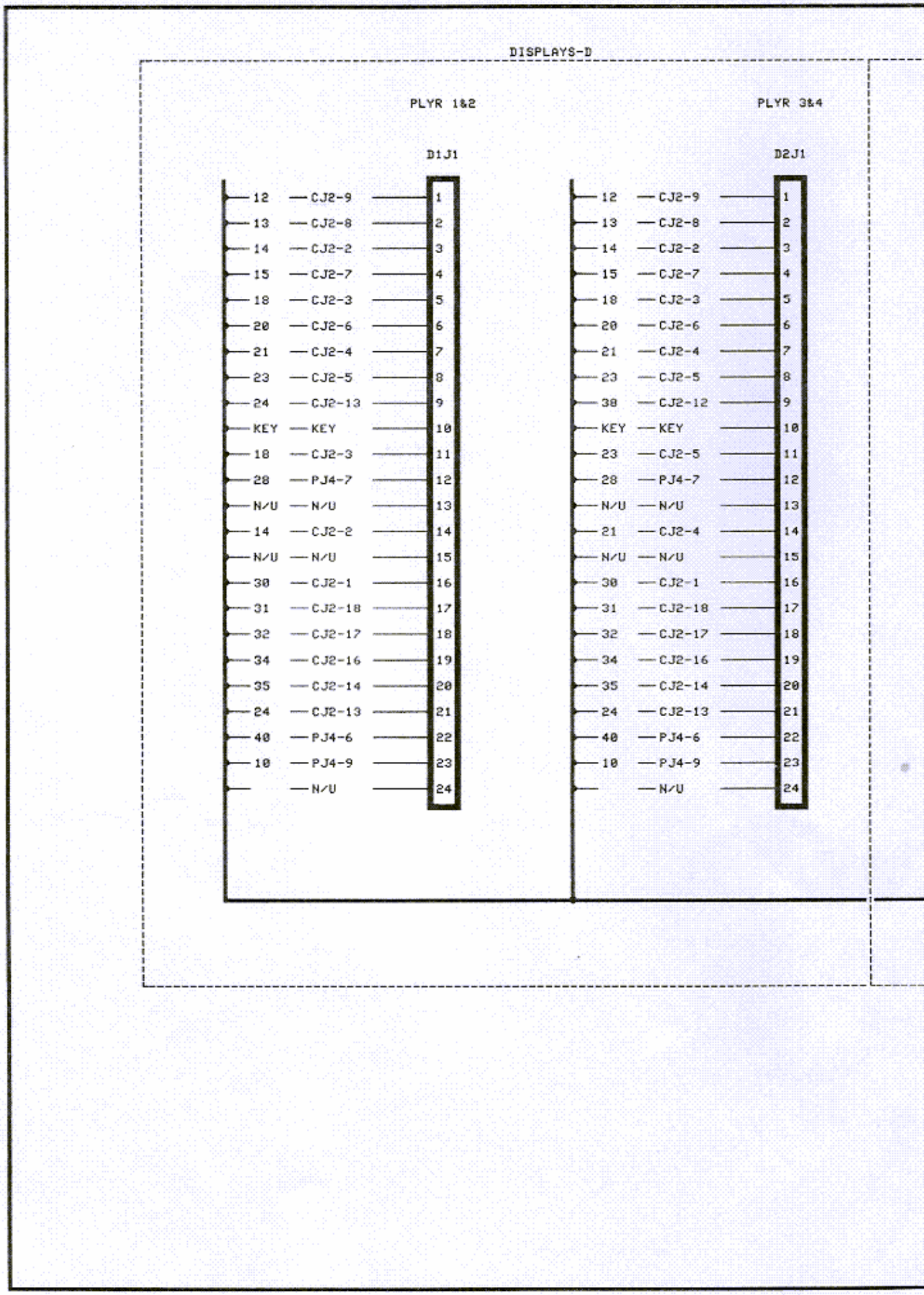
NOTES

CJ-12 NOT USED
BRIGHT LIGHTS TYPE 912 BULBS (C&D PHASE)
OTHER LIGHTS TYPE 555 BULBS (A&B PHASE)
CJ1 THROUGH CJ14 LOCATED ON CONTROLLER BOARD



NOTES:	BALLY MIDWAY MFG. CO.
D. STERN	
3/27/87	PARTY ANIMAL BACKBOX M051-00H01-A006
	SHEET 2 OF 3 REV

22 MAY 87 14:15 /USER/DAN/ANIMAL/BACKBOX 2.DRAW


DISPLAYS-D
PLYR 1&2
D1J1
12 CJ2-9 1
13 CJ2-8 2
14 CJ2-2 3
15 CJ2-7 4
18 CJ2-3 5
20 CJ2-6 6
21 CJ2-4 7
23 CJ2-5 8
24 CJ2-13 9
KEY KEY 10
18 CJ2-3 11
28 PJ4-7 12
N/U N/U 13
14 CJ2-2 14
N/U N/U 15
30 CJ2-1 16
31 CJ2-18 17
32 CJ2-17 18
34 CJ2-16 19
35 CJ2-14 20
24 CJ2-13 21
40 PJ4-6 22
10 PJ4-9 23
N/U 24
PLYR 3&4
D2J1
12 CJ2-9 1
13 CJ2-8 2
14 CJ2-2 3
15 CJ2-7 4
18 CJ2-3 5
20 CJ2-6 6
21 CJ2-4 7
23 CJ2-5 8
38 CJ2-12 9
KEY KEY 10
23 CJ2-5 11
28 PJ4-7 12
N/U N/U 13
21 CJ2-4 14
N/U N/U 15
30 CJ2-1 16
31 CJ2-18 17
32 CJ2-17 18
34 CJ2-16 19
35 CJ2-14 20
24 CJ2-13 21
40 PJ4-6 22
10 PJ4-9 23
N/U 24

SOUND MODULE

SJ1

20	1	CJ5-7
25	2	CJ5-8
28	3	CJ5-9
21	4	CJ5-10
	5	
40	6	PJ4-6
	7	
27	8	CJ5-15
	9	
98	10	PJ3-7
	11	KEY
	12	
	13	
	14	
50	15	PJ4-4

SJ2

6 5 4 3 2 1

50 80

TO CABINET
(SPEAKERS & VOLUME CONTROL)

PAGE 3 OF 3(BACKBOX)

COLOR CODE

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

NOTES:	BALLY MIDWAY MFG. CO.
D. STERN	
3/30/87	PARTY ANIMAL 2-29
	BACKBOX
	M051-00H01-A006
	SHEET 3 OF 3 REV

28 APR 87 07:28 /USER/DAN/ANIMAL/BACKBOX 3.DRAW

BALLY MIDWAY'S PARTY ANIMAL
#H01
ROM/EPROM PART NUMBERS

UNPROGRAMMED CONTROL BOARD A084-91786-G000
PROGRAMMED CONTROL BOARD A084-91786-AH01

POS.	MIDWAY PART NUMBER
U2	H01A-12601-0000
U3	H01A-12602-0000

JUMPERS	IN	OUT
JW1		**
JW2	**	
JW3		**
JW4	**	
JW5		**
JW6	**	
JW7		**
JW8		**
JW9	**	
JW10	**	
JW11		**

UNPROGRAMMED SOUNDS DELUXE A084-91864-C000
PROGRAMMED SOUNDS DELUXE A084-91864-AH01

POS.	MIDWAY PART NUMBER
U11	H01A-12603-0000
U12	H01A-12604-0000
U13	H01A-12605-0000
U14	H01A-12606-0000

JUMPERS	IN	OUT
JW1	**	
JW2	**	
JW3		**
JW4	**	
JW5		**
JW6		**
JW7	**	
JW8-JW12	**	

M051-00H01-B008	REVISIONS
05-21-87	RELEASE FOR PRODUCTION