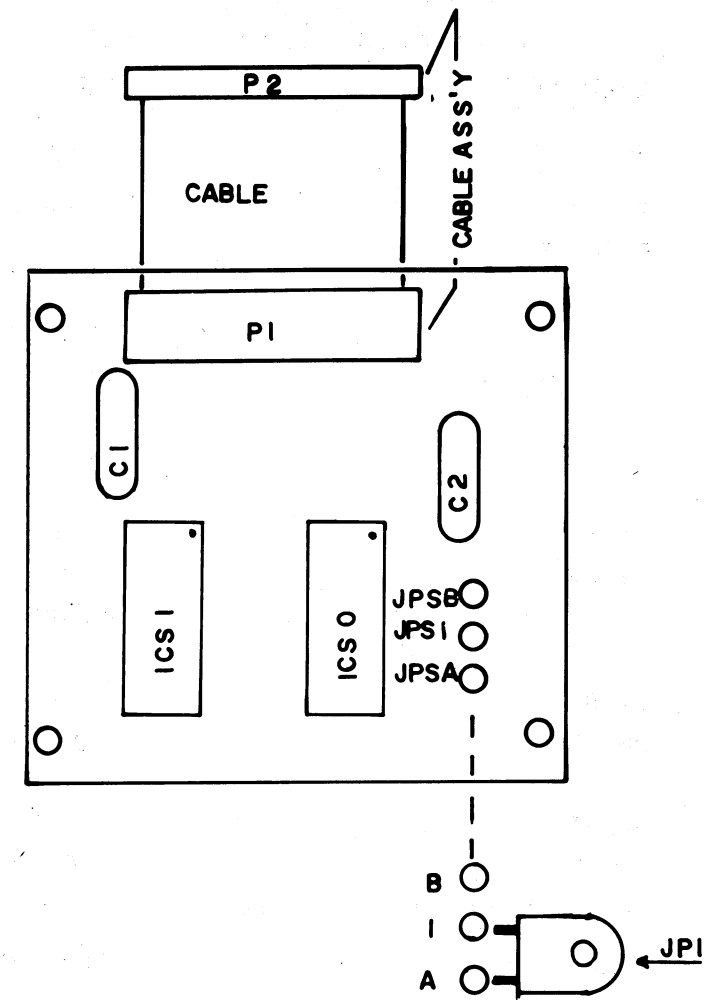


### DESIGNATION LIST

DESIGNATION	DESCRIPTION
CI, C2	.1 MF 50V
ICSO, ICSI	24 PIN ZIF SOCKET
JPI	MALE JUMPER CONN.
JPS1, JPSA, JPSB	FEMALE JUMPER CONN
CABLE ASS'Y	AS BELOW
PI	34 PIN CONN.
P2	17 PIN CONN
CABLE	RIBBON CABLE .83 F.T. 28 GA. 34- CONDUCTOR.
A080-91526-D917	EXTERNAL ROM P.C.



### CROSS REFERENCE LIST

DESCRIPTION	Q'TY	DESIGNATION	PART NO.
.1 MF 50V	2	CI, C2	0917-00800-0300
24 PIN ZIF SOCKET	2	ICSO, ICSI	0017-00003-0405
MALE JUMPER CONN.	1	JPI	0017-00003-0403
FEMALE " "	3	JPS1-JPS3	0017-00003-0404
CABLE ASS'Y	1	CABLE ASS'Y	A917-00006-0000
CONN 34 PIN TRANSITION	1	PI	0017-00021-0503
CONN 17 PIN DUAL	1	P2	0017-00021-0502
RIBBON CABLE .83 F.T. 28 GA. 34- CONDUCTOR.	1	CABLE	0017-00033-0345
EXTERNAL ROM P.C	1		A080-91526-D917

PROJECT ENG. K.DABEK

USED ON UNIV. TESTER

**MIDWAY MFG. CO.**

FRANKLIN PK ILL

DO NOT SCALE DWG

HEAT TREAT

SCALE

FULL

NO REQ'D

PART NO

SCHMATIC  
EXTERNAL ROM P.C.  
A084-91526-D917

M051-00917-D019

DIM TOLERANCES UNLESS SPECIFIED	DRN <b>TBB</b>	MAT'L
CONCENTRICITY T I R .002	DATE <b>05-19-82</b>	FINISH
FRACTIONAL ± 1/64		
DECIMAL ± .005		
HOLE DIA + .002 - .000		
ANGLE ± 1/2°		

PROJECT ENG: K. DABEK

ASS'Y M051-00917-D018

THIS DWG IS CONFIDENTIAL & PROPERTY OF MIDWAY MFG CO.

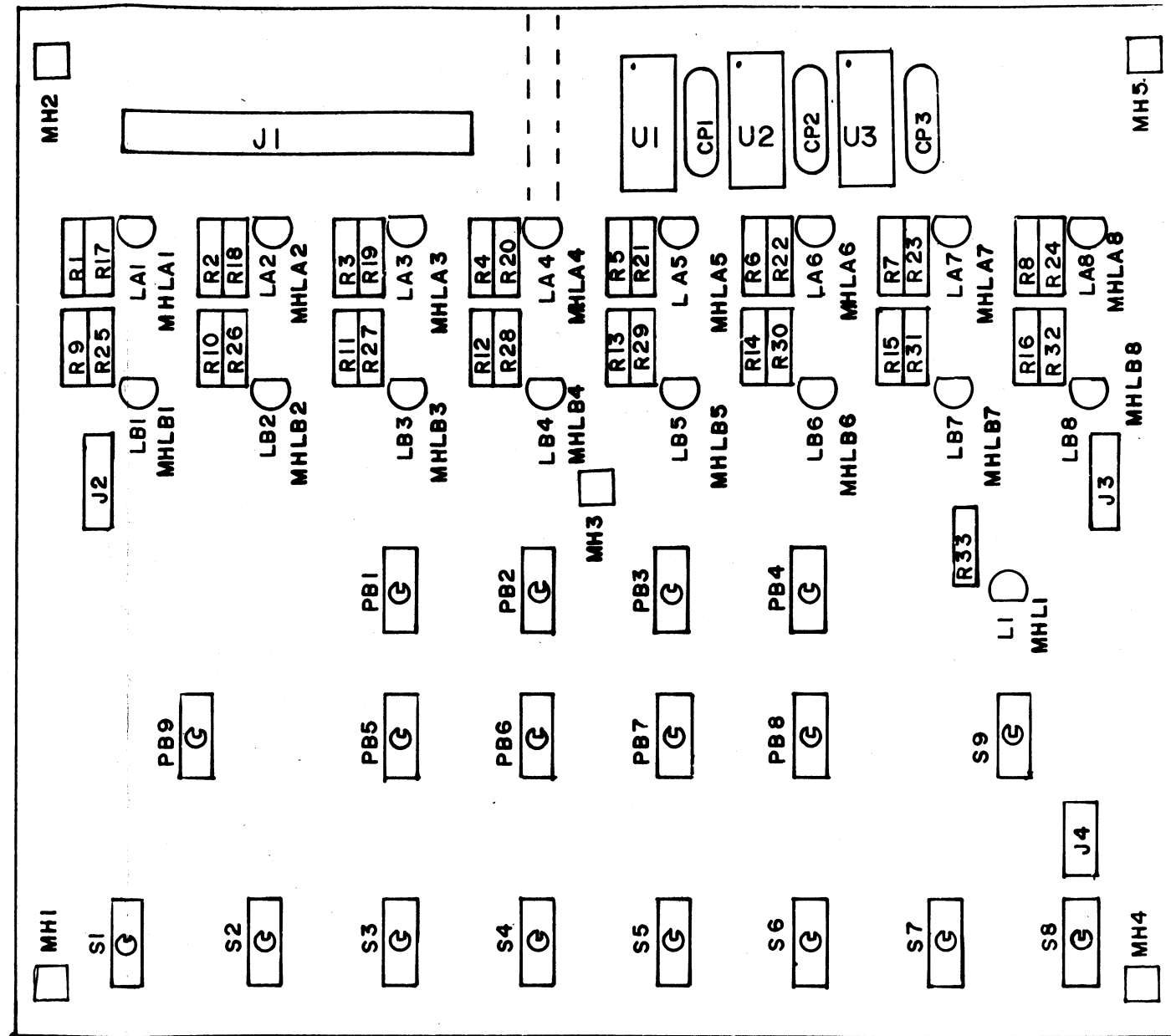
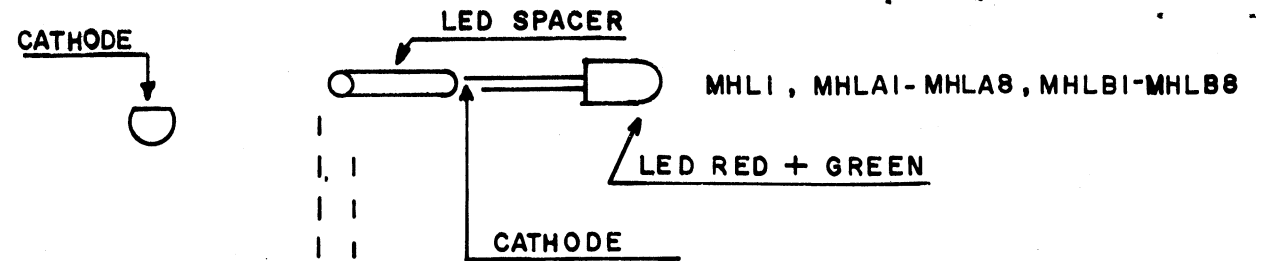
DIM. TOLERANCES UNLESS OTHERWISE SPEC	UNIVERSAL TESTER	<b>MIDWAY MFG. CO.</b> FRANKLIN PK., ILL. 60131 A BALLY CO	REVISIONS PART NO <b>A084-91526-D917</b>
CONCENTRICITY T I R .002	DATE <b>11-03-81</b> SCALE <b>FULL</b>		
FRACTIONAL ± 1/64	MECH. CHK	<b>EXTERNAL ROM P.C</b>	
DECIMAL ± .005	MAT'L		
HOLE DIA + .002 - .000	ELEC. CHK		
ANGLE ± 1/2°	FINISH		
DO NOT SCALE DWG			

# DESIGNATION LIST

DESIGNATION	DESCRIPTION
CPI-CP3	.1MF 50V
RI-R16	2.2 K OHM 1/4 W CRBN
RI7-R33	270 " " "
L1	LED - GREEN HP 5082-4950
LAI-LA8, LBI-LB8	LED - RED HP 5082-4650
UI-U3	7407
J1	50 PIN CONN.
J2, J3	KK.100 7 PIN
J4	KK.156 3 PIN
SI-S9	SPDT SWITCH
PBI-PB9	P.B SWITCH
MHI-MH5	PLASTIC GROMMET
MHLI	LED SPACER
MHLAI-MHLA8, MHLBI-MHLB8	" "
FRONT PANEL	A080-91510-C917

## CROSS REFERENCE LIST

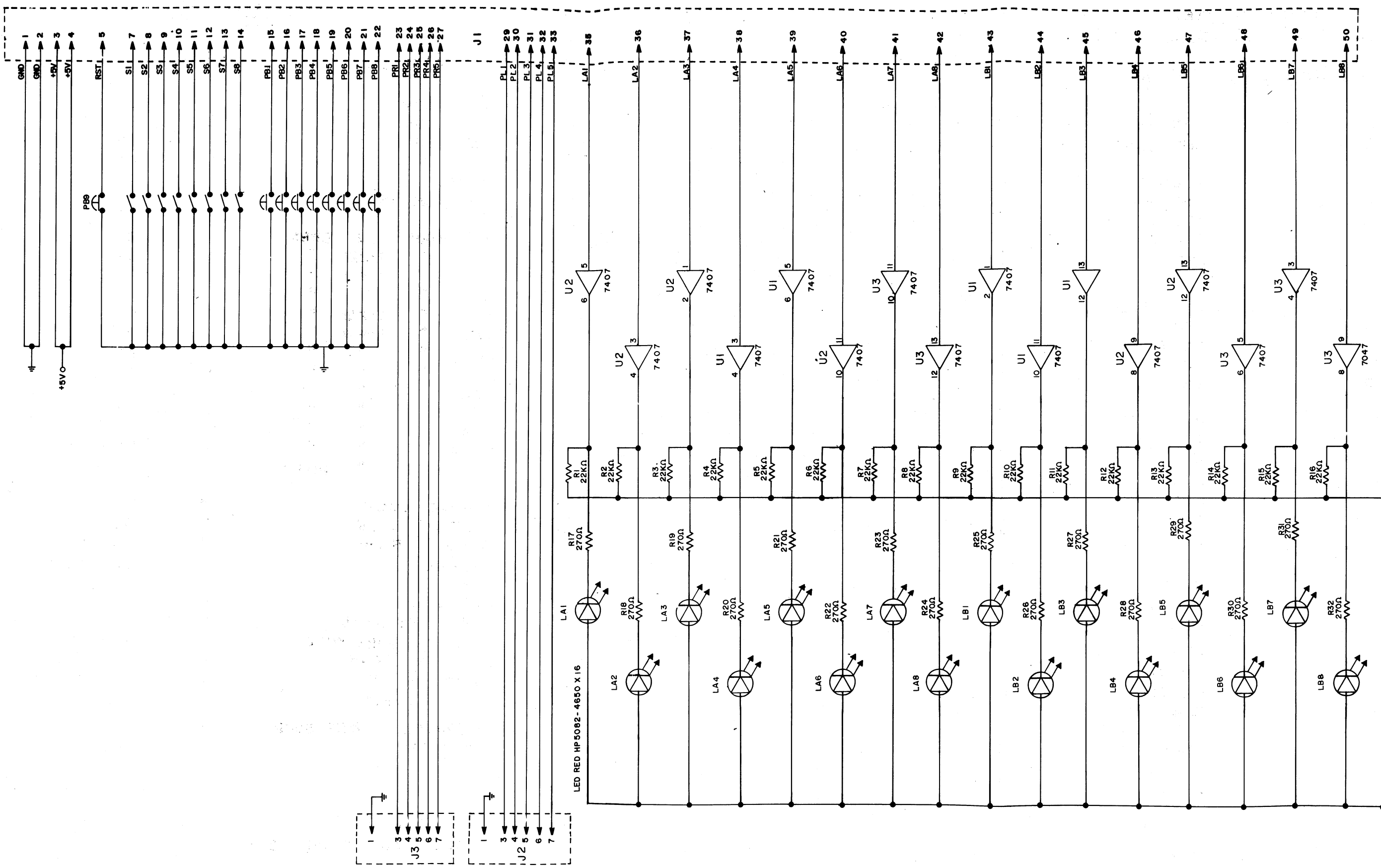
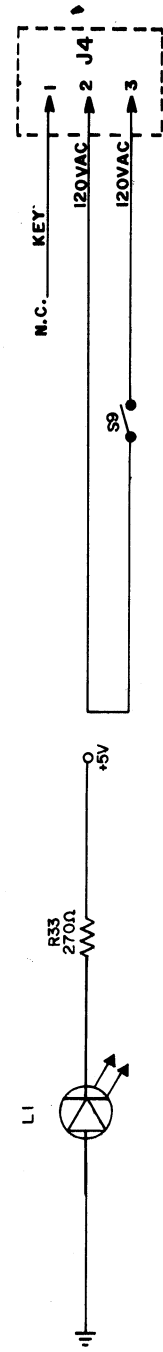
DESCRIPTION	Q'TY	DESIGNATION	PART NO.
.1MF 50V	3	CPI-CP3	0917-00800-0300
270 OHM 1/4 W CRBN.	17	RI7-R33	0062-138B3-1XXX
2.2 K " " "	16	RI-R16	0062-195B3-1XXX
LED GREEN	1	L1	0069-147XX-XXFX
LED RED	16	LAI-LA8, LBI-LB8	0069-225XX-XXFX
7407	3	UI-U3	0917-00803-1500
KK.100 7 PIN	2	J2, J3	3000-16366-0700
KK.156 3 PIN	1	J4	3000-16387-0300
50 PIN RIBBON CONN.	1	J1	0017-00021-0353
SPDT SWITCH	9	SI-S9	0017-00032-0074
P.B SWITCH	9	PBI-PB9	0017-00032-0076
LED SPACER	17	MHLI, MHLAI-MHLA8, MHLBI-MHLB8	C017-00041-0518
PLASTIC GROMMET	5	MHI-MH5	0017-00042-0234
FRONT PANEL	1		A080-91510-C917



ASS'Y M051-00917-C014

PROJECT ENG: K. DABEK

DO NOT SCALE DWG		HEAT TREAT	SCALE FULL	USED ON UNIV. TESTER	<b>MIDWAY MFG. CO.</b> FRANKLIN PK. ILL.
DIM TOLERANCES UNLESS SPECIFIED		MAT L	NO. REQ'D 1 PER	PART NO	
CONCENTRICITY T.Y.R. 003	DRN <i>M.D.</i>	FINISH	FRONT PANEL		A084-91510-C917
FRACTIONAL 1.64	CKD <i>K.D.</i>				
DECIMAL 005	DATE 11-13-81				
HOLE DIA +002 000					



PROJ. ENG.: K.DABEK

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

DIM. TOLERANCES UNLESS OTHERWISE SPEC	FIRST USED ON UNIVERSAL TESTER	DATE 6/2, /82	REV. NO. NONE	MIDWAY MFG. CO. FRANKLIN PK., IL. 60131 A BALLY CO.
CONCENTRICITY T 1 R 002	FRAC. DECIMAL ± .002			
FRACTIONAL ± .002	MECH. CHK.	SCHEMATIC FOR FRONT PANEL A084-91510-C917		
DECIMAL ± .002	ELEC. CHK.	PART NO. M051-009117-C015		
HOLE DIA. ± .002	FINISH	REVISIONS		
ANGLE ± 1/2°				

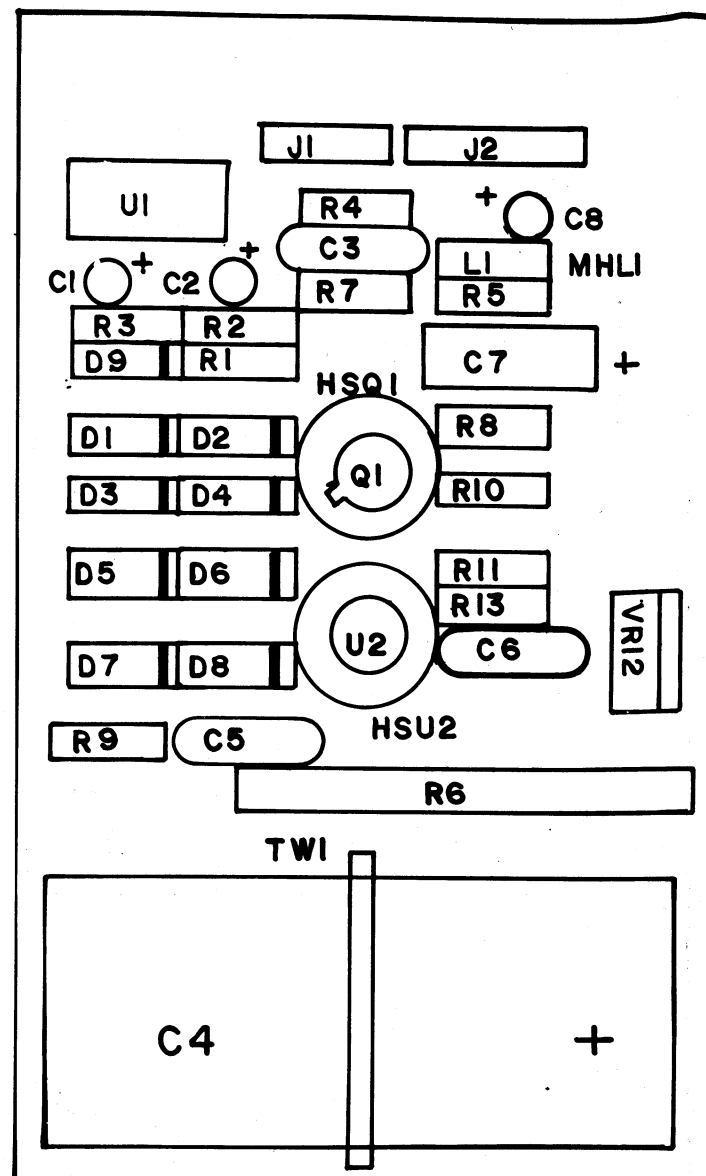
DO NOT SCALE DWG

# DESIGNATION LIST

# CROSS REFERENCE LIST

DESIGNATION	DESCRIPTION
C1	10MF 25V
C2	1MF 35V
C3	.1MF 50V
C4	20000 MF 16V
C5	.1MF 50V
C6	47 PF 50V
C7	470 MF 16V
C8	1MF 35V
R1	1 K OHM 1/4W CRBN.
R2	47K " " "
R3	220K " " "
R4	3K " " "
R5	68 " 1/2W " "
R6	.1 " 10W " "
R7	4.7 " 1/2W " "
R8	27 " 1/4W " "
R9	10 " " " "
R10	270 " " " "
R11	1.8K " " " "
R13	910 " " " "
VR12	100 " " POT
DI-D4	IN4004 400 V
D5-D8	MR750 50V
D9	IN5234 6.2 V
Q1	2N2905
U1	LM339
U2	LM305
HSQ1	HEAT SINK TO-5
HSU2	" " "
L1	FERROCUBE BEAD
MHL1	20G SOLID BARE WIRE
J1	KK.156 4 PIN
J2	" 5 PIN
TW1	TIE WRAP

COMPUTER POWER SUPPLY A080-91511-D917



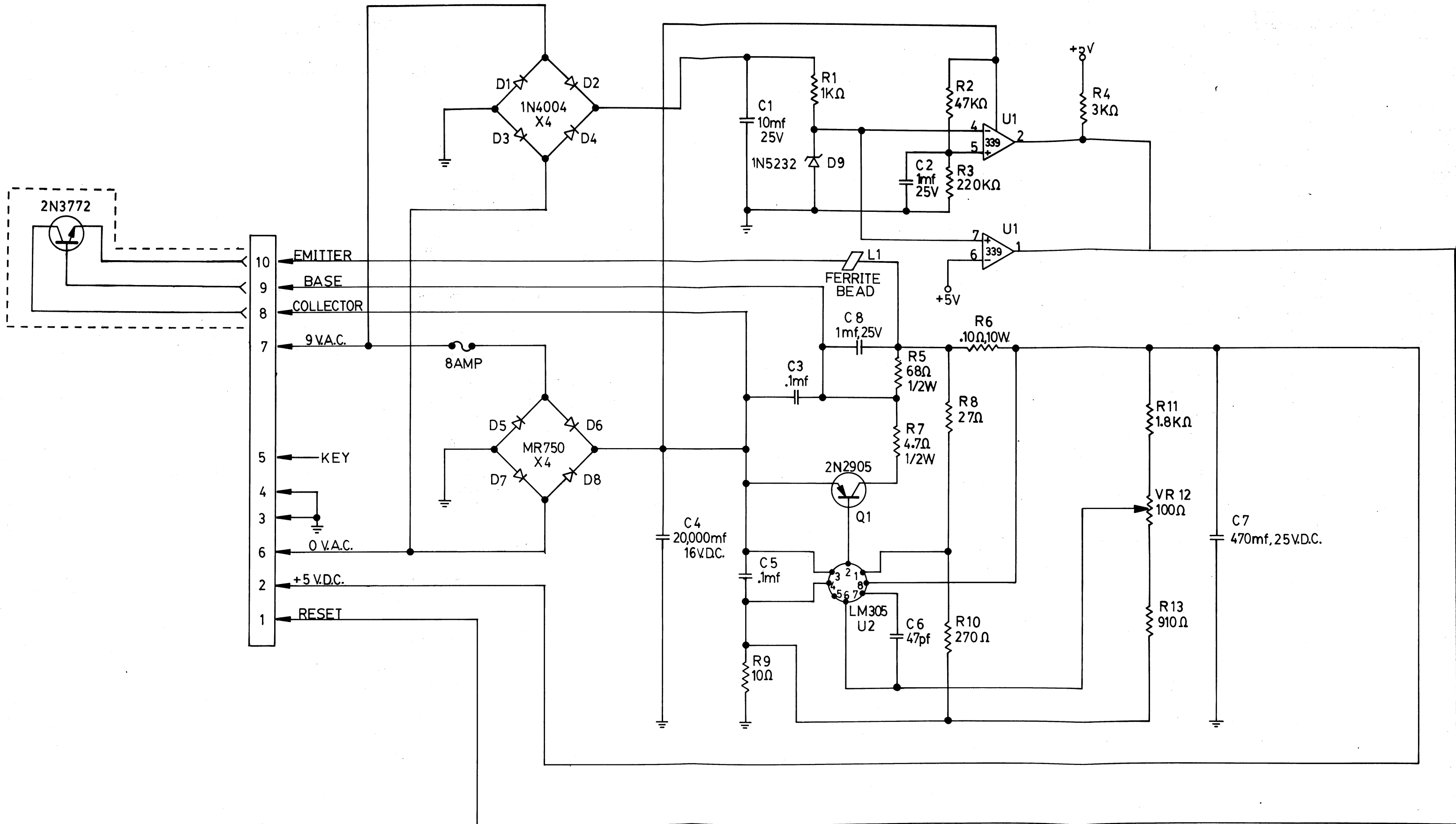
DESCRIPTION	Q'TY	DESIGNATION	PART NO.
47 PF 50V	1	C6	0917-00800-0900
.1MF 50V	2	C3,C5	0917-00800-0300
1MF 35V	2	C2,C8	0917-00800-0200
10MF 25V	1	C1	0917-00800-0800
470 MF 16V	1	C7	0917-00800-0600
20000 MF 16V	1	C4	0917-00800-0700
.1 OHM 10W CRBN	1	R6	0062-001L3-4XXX
4.7 " 1/2W "	1	R7	0062-042D3-1XXX
10 " 1/4W "	1	R9	0062-051B3-1XXX
27 " " "	1	R8	0062-068B3-1XXX
68 " 1/2W "	1	R5	0062-098D3-1XXX
270 " 1/4W "	1	R10	0062-138B3-1XXX
910 " " "	1	R13	0062-177B3-1XXX
1K " " "	1	R1	0062-179B3-1XXX
1.8K " " "	1	R11	0062-191B3-1XXX
3K " " "	1	R4	0062-201B3-1XXX
47K " " "	1	R2	0062-259B3-1XXX
220K " " "	1	R3	0062-291B3-1XXX
100 " " POT	1	VR12	0063-025AX-1FEX
IN4004 400V	4	D1-D4	0917-00801-0200
IN5234 6.2V	1	D9	0064-116XX-XXJX
MR750 50V	4	D5-D8	0064-303XX-XXJX
2N2905	1	Q1	0917-00802-0200
LM339	1	U1	0917-00803-2000
LM305	1	U2	0917-00803-1900
FERROCUBE BEAD	1	L1	0017-00009-0225
20 G SOLID BARE WIRE	1	MHL1	0017-00033-0139
HEAT SINK TO-5	2	HSQ1,HSU2	0068-026XX-XXDX
KK.156 .4 PIN	1	J1	3000-16387-0400
" 5 PIN	1	J2	3000-16387-0500
COMPUTER POWER SUPPLY	1		A080-91511-D917
TIE WRAP	1	TW1	0017-00042-0048

ASS'Y M051-00917-D001

PROJECT ENG: K. DABEK

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

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	FIRST USED ON	UNIVERSAL TESTER		MIDWAY MFG. CO. FRANKLIN PK., IL. 60131 A BALLY CO.	REVISIONS  PART NO. <b>A084-91511-D917</b>
	DRN	DATE	SCALE		
	MECH CHK	MAT L			
	ELEC CHK	FINISH			
				COMPUTER POWER SUPPLY	



PROJ. ENG. : K.DABEK

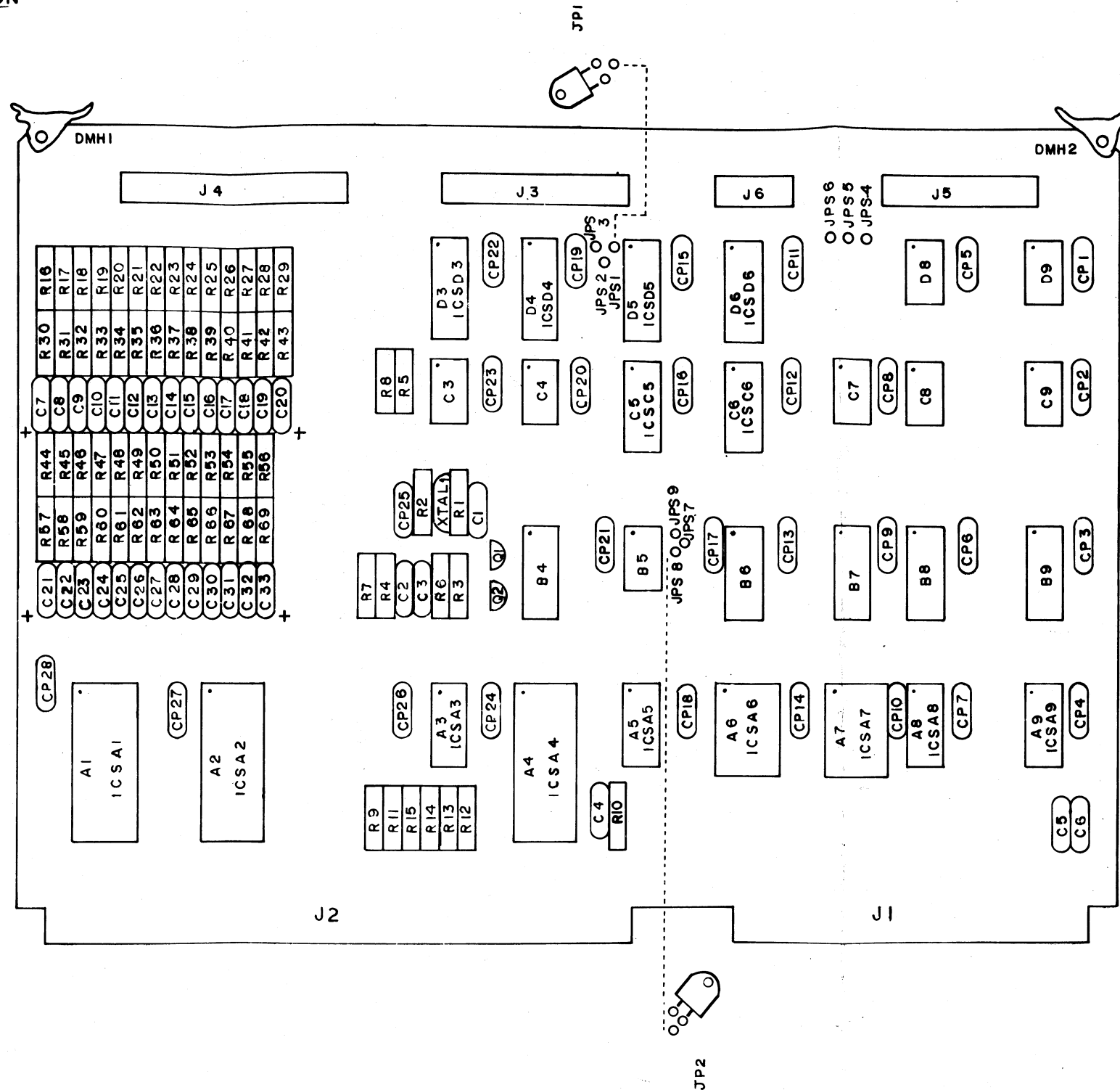
THIS DWG IS CONFIDENTIAL & PROPERTY OF MIDWAY MFG CO

<b>DIM TOLERANCES</b> UNLESS OTHERWISE SPEC CONCENTRICITY T I R .002 FRACTIONAL ± 1/64 DECIMAL ± .005 HOLE DIA + .002 - .000 ANGLE ± 1/2° DO NOT SCALE DWG	FIRST USED ON DATE 6/2 /82 NONE	<b>MIDWAY MFG. CO.</b> FRANKLIN PK., IL. 60131 A BALLY CO	REVISIONS
	SCHEMATIC, COMPUTER SUPPLY A084-91511-D917		PART NO M051-00917-D005

# DESIGNATION LIST

DESIGNATION DESCRIPTION

C1	180 PF 25V
C2,3	33 PF 50V
C4	.0068 MF 100 V
C5	22 MF 25V
C6	.1 MF 50V
C7-C33	1 MF 35V
CP1-CP28	.1 MF 50V
R1,R2	330 OHM 1/4W
R3	1.2K 1/4W
R4	220 OHM 1/4W
R5	22 OHM 1/4W
R6	1.2K 1/4W
R7	220 OHM 1/4W
R8	22 OHM 1/4W
R9	200 KΩ 1/4 W
R10	4.7 KΩ 1/4 W
R11-R15	2.2K 1/4W
R16-R29	68 OHM 1/4W
R30-R43	1K 1/4W
R44-R56	68 OHM 1/4W
R57-R69	1K 1/4W
Q1,Q2	2N4403
XTAL 1	19,968 HZ
A1,A2	8255-A
A3	74LS245
A4	Z-80
A5	74LS245
A8,A9	2114
B4	74804
B5	555
B6	74LS139
B7	7425
B8	74LS10
B9,C3	74LS32
C4	7490
C5,C6	74LS244
C7	74LS157
C8	74LS04
C9	74LS74
D3-D6	74LS244
D8	74LS20
D9	74LS139
A1,A2	40 PIN IC SOCKET
A3	20 PIN IC SOCKET
A4	40 PIN IC SOCKET
A5	20 PIN IC SOCKET
A6,A7	24 PIN IC SOCKET
A8,A9	18 PIN IC SOCKET
C5,C6	20 PIN IC SOCKET
D3-D6	20 PIN IC SOCKET
JPI, JP2	MALE JUMPER CONN.
JPS1 - JPS9	FEMALE JUMPER CONN.
DMH1, DMH2	P.C.BD EXTRACTOR W/PIN
J3	40 PIN RT. ANGLE RIBBON CONN.
J4	50 PIN RT. ANGLE RIBBON CONN.
J5	34 PIN RT. ANGLE RIBBON CONN.
J6	16 PIN RT. ANGLE RIBBON CONN.



# CROSS REFERENCE LIST

DESCRIPTION	QUANTITY	DESIGNATION	PART NO.
33 PF 50V	2	C2, C3	0917-00800-0500
180 PF 25V	1	C1	0917-00800-0400
.1 MF 50V	29	C6, CP1-CP28	0917-00800-0300
1 MF 35V	27	C7-C33	0917-00800-0200
22 MF 25V	1	C5	0917-00800-0100
.0068 MF 100 V	1	C4	0173-093K4-BXAX
22 OHM 1/4W	2	R5, R8	0062-063B3-1XXX
68 OHM 1/4W	27	R16-R29, R44-R56	0062-098B3-1XXX
220 OHM 1/4W	2	R4, R7	0062-133B3-1XXX
330 OHM 1/4W	2	R1, R2	0062-144B3-1XXX
1K 1/4W	27	R30-R43, R57-R69	0062-179B3-1XXX
1.2K 1/4W	2	R3, R6	0062-183B3-1XXX
2.2K 1/4W	5	R11-R15	0062-195B3-1XXX
200 KΩ 1/4 W	1	R9	0062-289B3-1XXX
4.7 KΩ 1/4 W	1	R10	0062-211B3-1XXX
2N4403	2	Q1, Q2	0917-00802-0100
74804	1	B4	0917-00803-2200
74LS04	1	C8	0917-00803-0100
74LS10	1	B8	0917-00803-0200
74LS20	1	D8	0917-00803-2100
7425	1	B7	0917-00803-0300
74LS32	2	B9, C3	0917-00803-0400
74LS74	1	C9	0917-00803-0500
7490	1	C4	0917-00803-0600
74LS139	2	B6, D9	0917-00803-0700
74LS157	1	C7	0917-00803-0800
74LS244	6	C5, C6, D3-D6	0917-00803-0900
74LS245	2	A3, A5	0917-00803-1000
555	1	B5	0917-00803-1100
2114-2	2	A8, A9	0917-00803-1200
8255A	2	A1, A2	0066-976AX-XXFX
Z-80	1	A4	0917-00803-1300
19,968	1	XTAL 1	0917-00804-0100
18 PIN IC SOCKET	2	A8, A9	0069-117XX-XXWX
20 . . .	8	A3, A5, C5, C6, D3-D6	0069-132XX-XXWX
24 . . .	2	A6, A7	0059-108XX-XXWX
40 . . .	3	A1, A2, A4	0069-109XX-XXWX
MALE JUMPER CONN.	2	JPI, JP2	0017-00003-0403
FEMALE JUMPER CONN.	9	JPS1-JPS9	0017-00003-0404
P.C. BD. EXTRACTOR W/PIN	2	DMH1-DMH2	0789-00806-0200
16 PIN RT. ANGLE RIBBON CONN.	1	J6	0017-00021-0527
34 . . .	1	J5	0017-00021-0493
40 . . .	1	J3	0017-00021-0528
50 . . .	1	J4	0017-00021-0353
COMPUTER CONTROLLER			A080-91508-D917

PROJECT ENG. K. DABEK

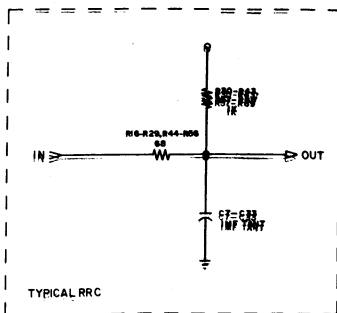
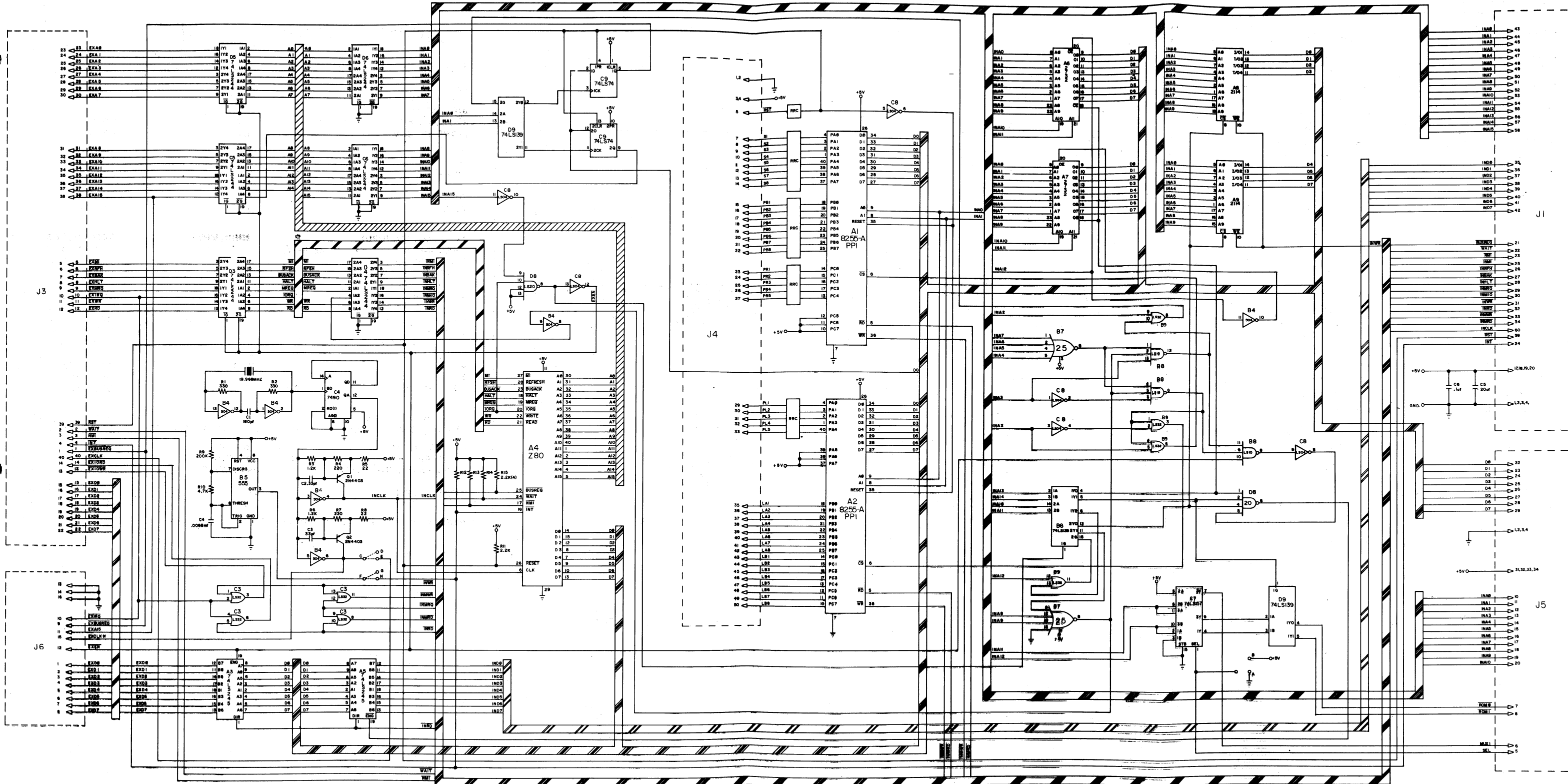
ASS'Y : M051-00917-0010

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DIM. TOLERANCES UNLESS OTHERWISE SPEC	FIRST USED ON COMPUTER CONTROLLER
CONCENTRICITY T I R 002	DATE 6/2/82 SCALE FULL
FRACTIONAL ± 1/64	T.V.T
DECIMAL ± .005	MECH. CHK
HOLE DIA ± .002-000	MAT'L
ANGLE ± 1/2°	FINISH
DO NOT SCALE DWG	

<b>MIDWAY MFG. CO.</b> FRANKLIN PK., IL. 60131 A BALLY CO.
<b>COMPUTER CONTROLLER</b>

REVISIONS
PART NO A-0-8-0 - 9-1-5-0-8 - D-9-1-7

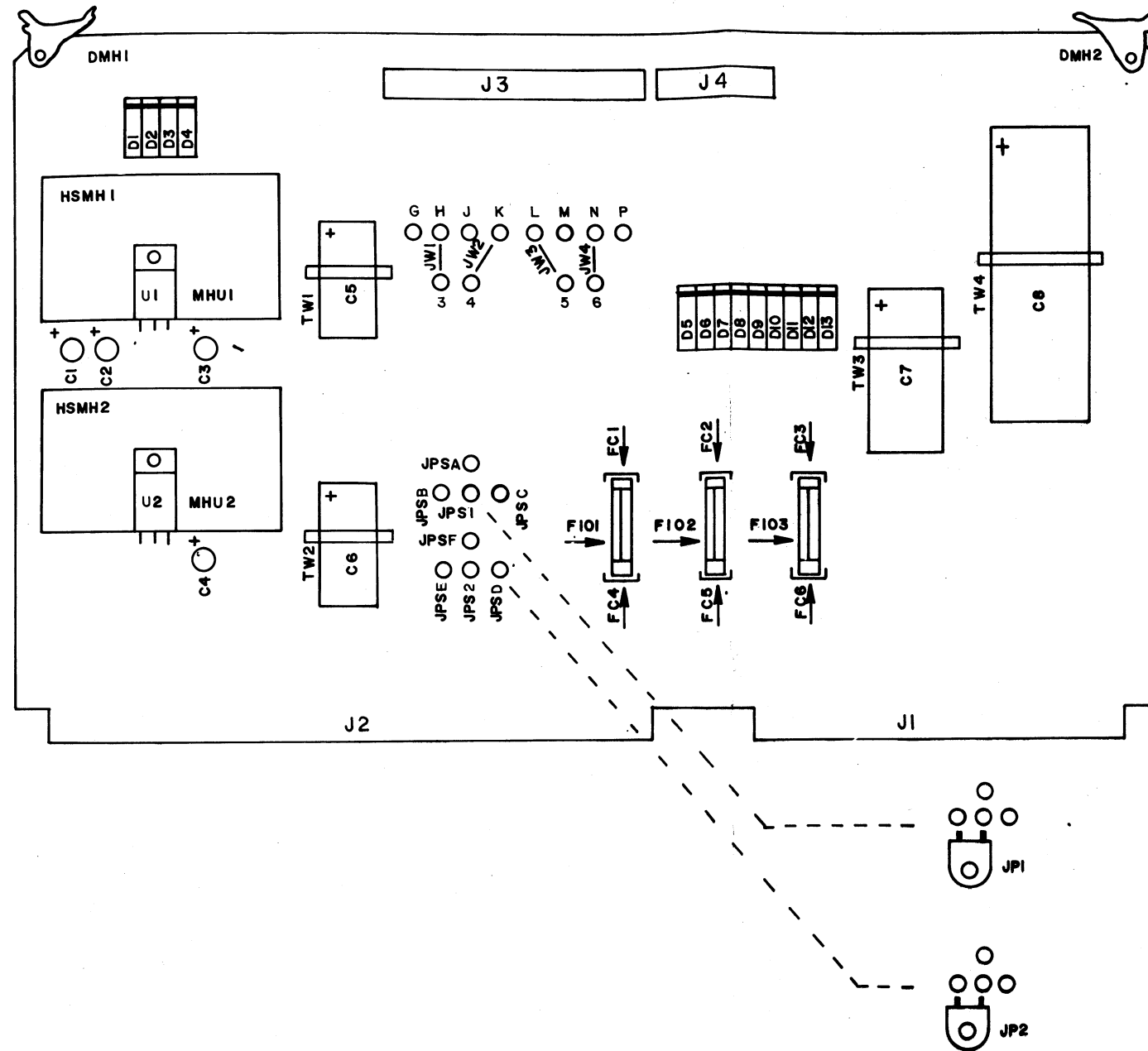


TYPICAL RRC

PROJ. ENG.: K. DABEK		CHECKED BY: UNIV. TESTER		MIDWAY MFG. CO.	
DATE: 6/2/82	REV: 1	SCALE: 1:1	BY: GML	NO. REV: NONE	FIG. NO.: 1
SCHEMATIC FOR COMPUTER CONTROLLER P.C.B. NO. A080-91508-001				PART NO.: M051-00917-001	

# DESIGNATION LIST

DESIGNATION	DESCRIPTION
C1,C2	2.2 MF 35V
C3,C4	1 MF 35V
C5,C6	1000MF 35V
C7	4700 MF 25V
C8	10000 MF 35V
D1-D4	IN4004 400V
D5-D13	IN5624 200V
U1	7815
U2	7915
MHU1, MHU2	(2) TO-220 MICA INSUL. (2) THERMAL COMPOUND (2) SHOULDER WASHER (2) 4-40X6 SCRW (2) 4-40 NUT (2) 4 WASHER
F101	5 AMP FUSE
F102	3 AMP FUSE
F103	4 AMP FUSE
FC1-FC6	FUSE CLIP
JP1, JP2	MALE JUMPER CONN.
JPSA-JPSF, JPS1-JPS4	FEMALE " "
JW1-JW4	20 GA. WIRE
TW1-TW4	TY-WRAP
HSMH1, HSMH2	(4) 6-32 X5 SCRW. (4) 6 WASHER (2) 61065 HEAT SINK P.C. BD. EXTRACTOR W/P KK.156 17 PIN " 8 PIN
DMH1-DMH2	
J3	
J4	
GENERAL PURPOSE POWER SUPPLY	A080-91512-E917



# CROSS REFERENCE LIST

DESCRIPTION	Q'TY	DESIGNATION	PART NO.
1 MF 35V	2	C3,C4	0917-00800-0200
2.2 MF 35V	2	C1,C2	0917-00800-1200
1000 MF 35V	2	C5,C6	0917-00800-1300
4700 MF 25V	1	C7	0917-00800-1100
10000 MF 35V	1	C8	0917-00800-1000
IN4004 400 V	4	D1-D4	0917-00801-0200
IN5624 200 V	9	D5-D13	0917-00801-0400
7815	1	U1	0917-00804-0200
7915	1	U2	0917-00804-0300
TO-220 MICA INSUL.	2	MHU1, MHU2	0017-00003-0205
THERMAL COMPOUND	AS REQ'D	" "	0017-00009-0204
SHOULDER WASHER	2	" "	0017-00042-0115
4-40 X6 SCRW	2	" "	0017-00101-0731
4-40 NUT	2	" "	0017-00103-0002
4 WASHER	2	" "	0017-00104-0071
6-32X5 SCRW	4	HSMH1, HSMH2	0017-00101-0555
6 WASHER	4	" "	0017-00104-0009
HEAT SINK 61065	1	" "	0068-048XX-AX1X
3 AMP FUSE	1	F102	0017-00003-0006
4 " "	1	F103	0017-00003-0176
5 " "	1	F101	0017-00003-0175
FUSE CLIP	6	FC1-FC6	0017-00071-0033
MALE JUMPER CONN.	2	JP1, JP2	0017-00003-0403
FEMALE JUMPER CONN.	8	JPSA-JPSF, JPS1, JPS2	0017-00003-0404
1 IN. 20GA. WIRE	4	JW1-JW4	0017-00033-0344
TY-WRAP 8 IN.	4	TW1-TW4	0017-00042-0048
P.C.BD EXTRACTOR W/PIN	2	DMH1, DMH2	0789-00806-0200
KK.156 8 PIN	1	J4	3000-16387-0800
" " 17 PIN	1	J3	3000-16387-1700
GENERAL PURPOSE POWER SUPPLY	1		A080-91512-E917

PROJECT ENG: K. DABEK

ASS'Y NO: 0917-0017-E016

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

DIM. TOLERANCES UNLESS OTHERWISE SPEC. CONCENTRICITY T.I.R. .002 FRACTIONAL . . . . . ± .1/64 DECIMAL . . . . . ± .006 HOLE DIA. . . . . +.002-.000 ANGLE . . . . . ± 1/2° DO NOT SCALE DWG	FIRST USED ON DATE 6-1-82 FULL	<b>UNIVERSAL TESTER</b> <b>MIDWAY MFG. CO.</b> FRANKLIN PK., IL. 60131 A BALLY CO.	REVISIONS PART NO. <b>A084-91512-E917</b>
<b>GENERAL PURPOSE POWER SUPPLY</b>			PART NO. <b>A084-91512-E917</b>