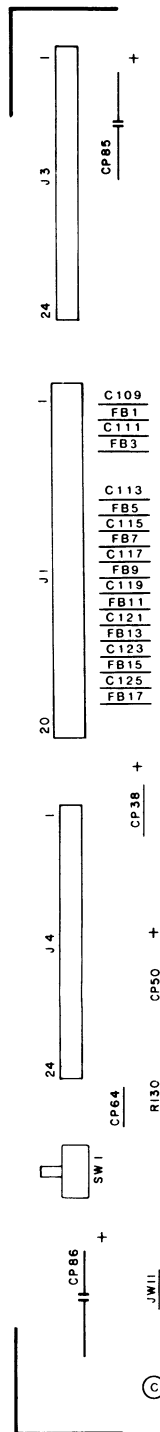
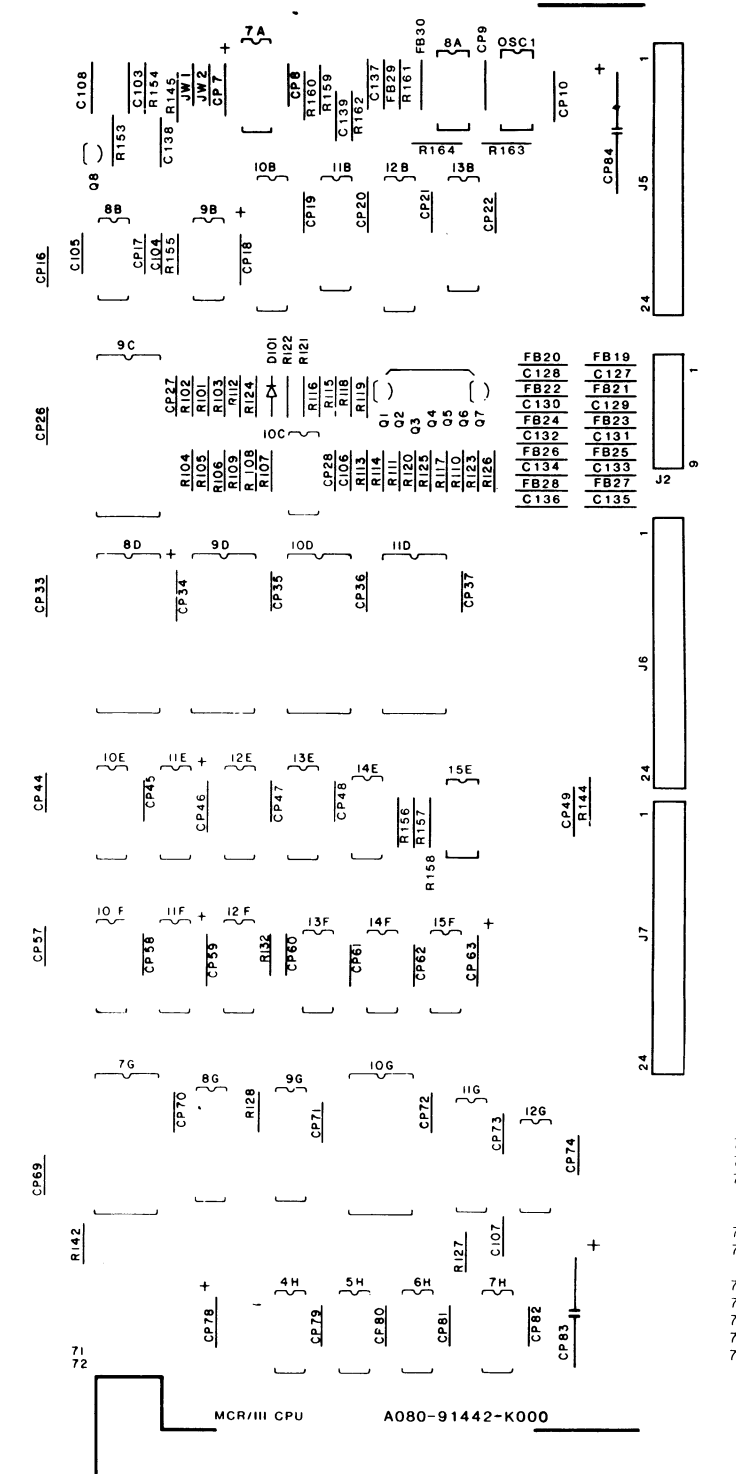
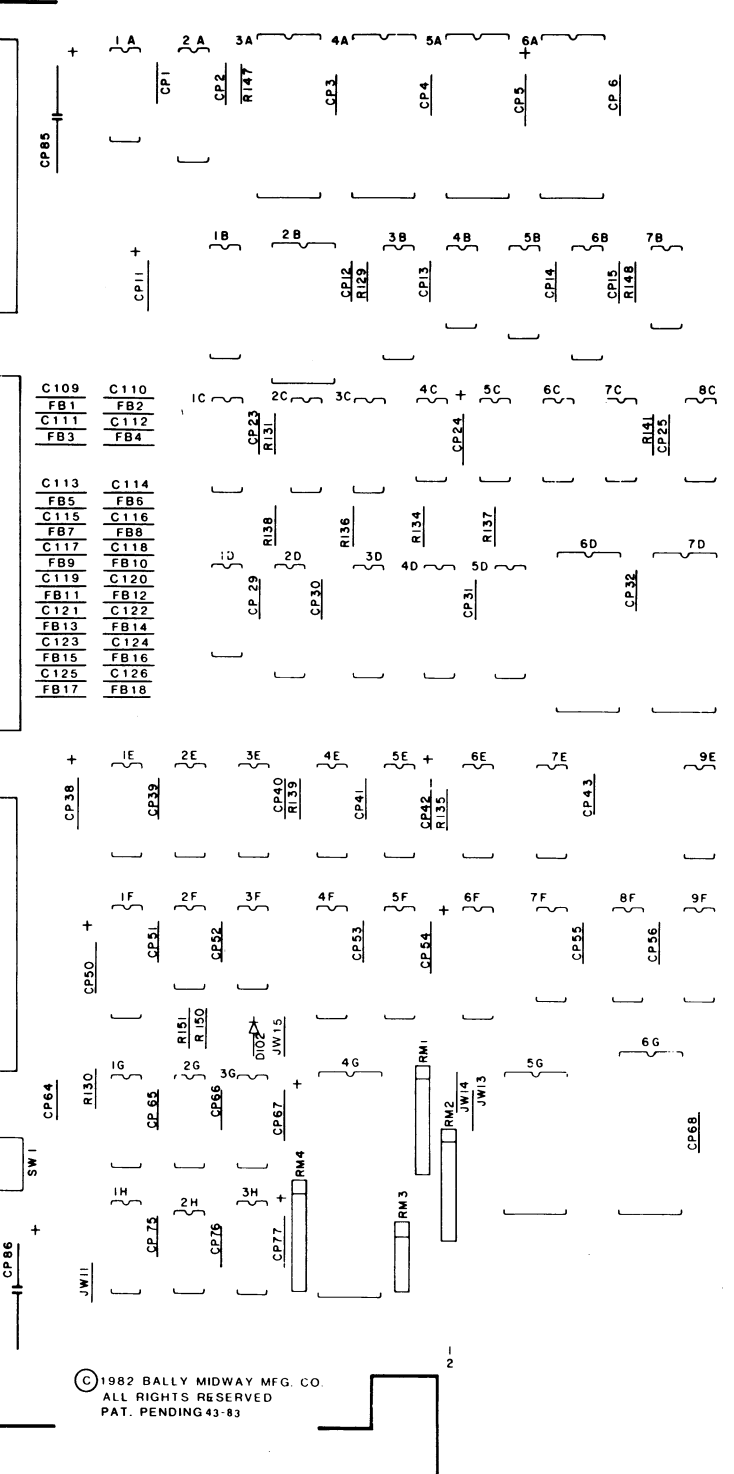


DESIGNATION LIST

<u>DESIGNATION NO.</u>	<u>DESCRIPTION</u>	<u>DESIGNATION NO.</u>	<u>DESCRIPTION</u>	<u>DESIGNATION NO.</u>	<u>DESCRIPTION</u>
C103	33 PF 50V AX CER	RM1	4.7K 10 PIN SIP	13E	74LS174
C104	.1 MF 50V AX CER	RM2	4.7K 10 PIN SIP	14E	74LS27
C105	390 MF 50V AX CER	RM3	4.7K 6 PIN SIP	15E	74S04
C106	390 MF 50V AX CER	RM4	4.7K 10 PIN SIP	1F	NVR CONT.
C107	100 PF 50V AX CER			2F	74LS32
C108	.1 MF 50V AX CER	D101	4148	3F	74LS04
C109-C126	390 MF 50V AX CER	D102	1N5817	4F	74LS244
C127-C136	47 PF 50V AX CER			5F	74LS244
C137	100 PF AX CER	SW1	P.B. SWITCH	6F	74LS245
C138	330 PF AX CER			7F	74LS08
C139	33 PF AX CER	Q1	2N4123	8F	74LS138
CP1-CP4	.01MF 50V AX CER	Q2-Q7	MPSA70	9F	74LS32
CP5	10 MF 25V AX TANT	Q8	2N4403	10F	74LS157
CP6	.01 MF 50V AX CER			11F	74LS157
CP7	10 MF 25V AX TANT	OSC1	20 MHZ XTAL OSC	12F	74LS157
CP8-CP10	.01 MF 50V AX CER			13F	7430
CP11	10 MF 25V AX TANT	JW1, JW2	JUMPER WIRE	14F	74LS04
CP12-CP17	.01MF 50V AX CER	JW11: JW13	JUMPER WIRE	15F	74LS20
CP18	10 MF 25V AX TANT	JW14, JW15	JUMPER WIRE	1G	4053
CP19-CP23	.01 MF 50V AX CER			2G	4017
CP24	10 MF 25V AX TANT	FB1-FB30	FERRITE BEAD	3G	74LS367
CP25-CP33	.01 MF 50V AX CER			4G	Z80B
CP34	10 MF 25V AX TANT	1A	74LS153	5G	DATA RET RAM
CP35-CP37	.01 MF 50V AX CER	2A	74LS273	6G	Z80BCTC
CP38	10 MF 25V AX TANT	3A	EPROM BG-A	7G	STAT RAM
CP39-CP41	.01 MF 50V AX CER	4A	EPROM BG-B	8G	74LS245
CP42	10 MF 25V AX TANT	5A	EPROM BG-C	9G	74LS273
CP43-CP45	.01 MF 50V AX CER	6A	EPROM BG-D	10G	EPROM 10-G
CP46	10 MF 25V AX TANT	7A	74S161	11G	74LS273
CP47-CP49	.01 MF 50V AX CER	8A	74S04	12G	74LS153
CP50	10 MF 25V AX TANT			1H	74LS138
CP51-CP53	.01 MF 50V AX CER	1B	74LS245	2H	74LS32
CP54	10 MF 25V AX TANT	2B	2K X8 RAM	3H	74LS161
CP55-CP58	.01 MF 50V AX CER	3B	74LS273	4H	74LS27
CP59	10 MF 25V AX TANT	4B	74LS86	5H	74LS10
CP60-CP62	.01 50V AX CER	5B	74LS153	6H	74LS08
CP63	10 MF 25V AX TANT	6B	74LS273	7H	7420
CP64-CP66	.01 50V AX CER	7B	74S04		ICS A10B, A12B
CP67	10 MF 25V AX TANT	8B	74LS74		8 PIN SOCKET
CP68-CP76	.01 50V AX CER	9B	74LS74		ICS B10B, B12B
CP77, CP78	10 MF 25V AX TANT	10B	H-T		16 PIN SOCKET
CP79-CP82	.01 MF 50V AX CER	11B	V&H		40 PIN SOCKET
CP83-CP86	470 MF 16V AX ELECT	12B	V-T		20 PIN SOCKET
R101	2K OHM 1/4W CRBN	13B	MISC		24 PIN SOCKET
R102	1K OHM 1/4W CRBN	1C	74LS157		ICS 3A-6A, 9C,
R103	510 OHM 1/4W CRBN	2C	74LS157		10G
R104	2K OHM 1/4W CRBN	3C	74LS157		6C, 6D-11D
R105	1K OHM 1/4W CRBN	4C	74LS30		
R106	510 OHM 1/4W CRBN	5C	74LS04	J1	FMD HDR .156C
R107	2K OHM 1/4W CRBN	6C	74LS32		OMIT 15
R108	1K OHM 1/4W CRBN	7C	74LS20	J2	RMD HDR .100C
R109	510 OHM 1/4W CRBN	8C	74LS08		OMIT 3
R110-R112	270 OHM 1/4W CRBN	9C	82S09	J3-J7	FMD HDR .100C
R113	100 OHM 1/4W CRBN	10C	74LS04		24 PIN RT ANGLE
R114	820 OHM 1/4W CRBN	1D	74LS157	J3-J7	FLEX PAC JUMPER
R115, R116	10 OHM 1/4W CRBN	2D	74LS273		
R117	470 OHM 1/4W CRBN	3D	74LS273		
R118, R119	10 OHM 1/4W CRBN	4D	74LS273		
R120	470 OHM 1/4W CRBN	5D	74LS273		
R121, R122	10 OHM 1/4W CRBN	6D	EPROM A		
R123	470 OHM 1/4W CRBN	7D	EPROM B		
R124	1K OHM 1/4W CRBN	8D	EPROM C		
R125, R126	560 OHM 1/4W CRBN	9D	EPROM D		
R127-R129	1K OHM 1/4W CRBN	10D	EPROM E		
R130	4.7K OHM 1/4W CRBN	11D	EPROM F		
R131, R132	1K OHM 1/4W CRBN	1E	74LS161		
R133-R136	1K OHM 1/4W CRBN	2E	74LS161		
R137, R138	1K OHM 1/4W CRBN	3E	74LS161		
R139	1K OHM 1/4W CRBN	4E	74LS161		
R140	1K OHM 1/4W CRBN	5E	74LS161		
R141	1K OHM 1/4W CRBN	6E	74LS161		
R142	1K OHM 1/4W CRBN	7E	74LS175		
R143, R144	1K OHM 1/4W CRBN	9E	74LS139		
R145	68 OHM 1/4W CRBN	10E	74LS157		
R146	82K OHM 1/4W CRBN	11E	74LS157		
R147	1K OHM 1/4W CRBN	12E	74LS157		
R156-R156	82 OHM 1/4W CRBN				
R159, R160	68 OHM 1/4W CRBN				
R16	33 OHM 1/4W CRBN				
R162	82 OHM 1/4W CRBN				
R163, R164	68 OHM 1/4W CRBN				





DESCRIPTION
33 PF
47 PF
100 PF
330 PF
390 PF
.01UF
.1 PF
10 PF
470 PF
10 OHM 1/4W CR
33 OHM 1/4W CR
68 OHM 1/4W CR
82 OHM 1/4W CR
100 OHM 1/4W CR
270 OHM 1/4W CR
470 OHM 1/4W CR
510 OHM 1/4W CR
560 OHM 1/4W CR
820 OHM 1/4W CR
1K OHM 1/4W CR
2K OHM 1/4W CR
4.7K OHM 1/4W C
82K OHM 1/4W CR
4.7K 10PIN SIP
4.7K 6PIN SIP
74LS04
74LS04
74LS08
74LS10
7420
74LS20
74LS27
743C
74LS30
74LS32
74LS74
74LS86
74LS138
74LS139
74LS153
74LS157
74LS161
74LS161
74LS174
74LS175
74LS244
74LS245
74LS273

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PAT. PENDING 43-83

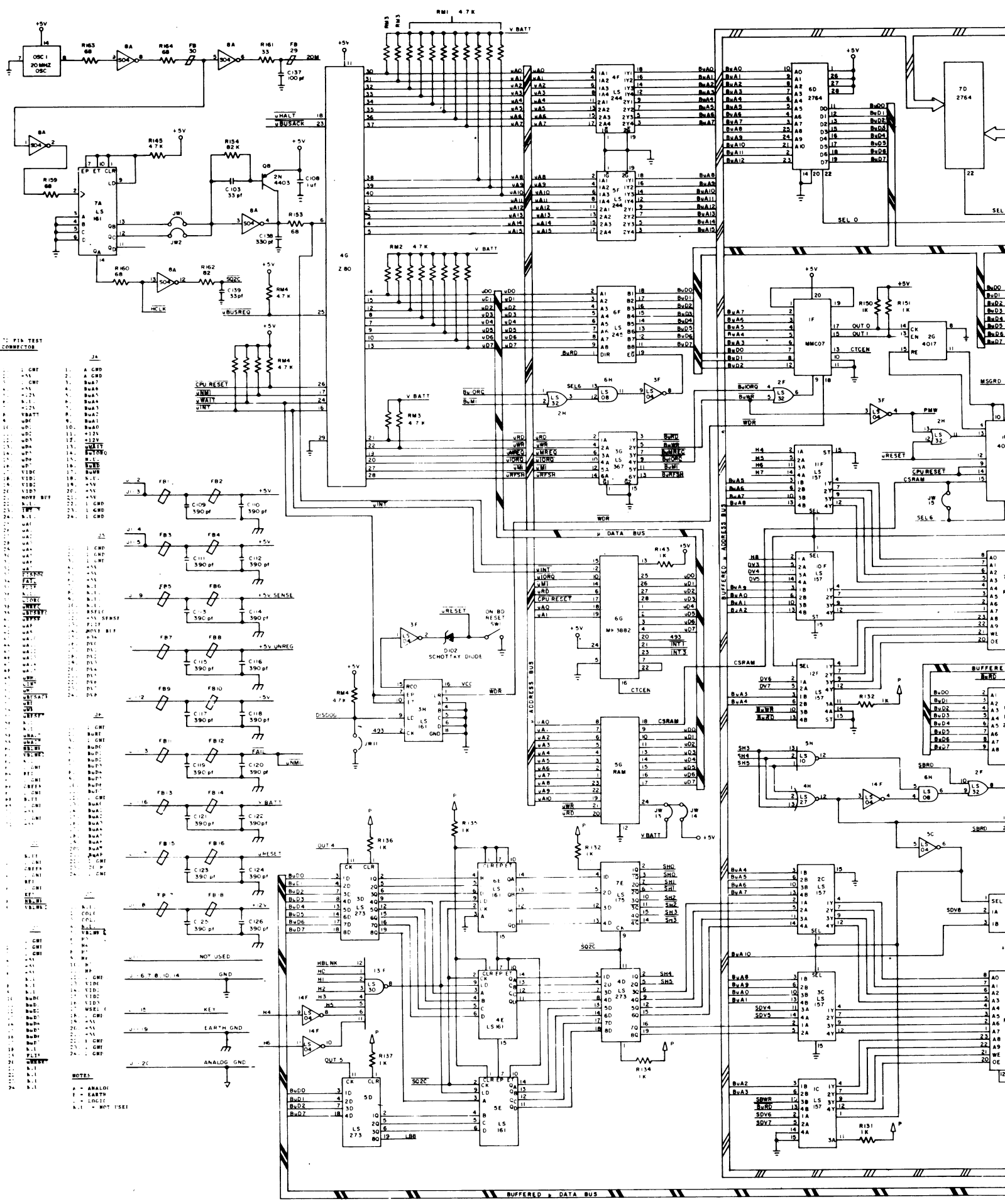
MCR/III CPU A080-91442-K000

CROSS REFERENCE LIST

DESCRIPTION	QTY	DESIGNATION NO.	PART NOS.	DESCRIPTION	QTY	DESIGNATION NO.	PART NOS.
33 PF	2	C103,C139	0986-00800-0300	74LS367	1	3G	0986-00803-2200
47 PF	10	C127-C136	0986-00800-2800	Z80B	1	4G	0304-00803-0066
100 PF	2	C107,C137	0986-00800-1000	Z80BCTC	1	6G	0304-00803-0064
330 PF	1	C138	0986-00800-1300	4017	1	2G	0986-00803-8700
390 PF	20	C105,C106,C109-C126	0986-00800-3000	4053	1	1G	0986-00803-2000
.01UF	66	CP1-CP4,CP6,CP8-CP10,CP12-CP17,CP19-CP23,CP25-CP33,CP35-CP37,CP39-CP41,CP43-CP45,CP47-CP49,CP51-CP53,CP55-CP58,CP60-CP62,CP64-CP66,CP68-CP76,CP79-CP82	0986-00800-2200	DATA RET RAM	1	5G	0304-00803-0079
.1 PF	2	C104,C108	0986-00800-0200	82S09	1	9C	0986-00803-9600
10 PF	16	CP5,CP7,CP11,CP18,CP24,CP34,CP38,CP42,CP46,CP50,CP54,CP59,CP63,CP67,CP77,CP78,CP83-CP86	0986-00800-3400	STAT RAM	1	7G	0986-00803-1008
470 UF	4	R115, R116, R118, R119, R121, R122	100E-00005-0011	H-T	1	10B	0986-00803-8900
10 OHM 1/4W CRBN	6	R161	100E-00005-0021	V-T	1	12B	0986-00803-9000
33 OHM 1/4W CRBN	5	R153, R159, R160, R163, R164	100E-00005-0029	MISC V&H	1	11B	0986-00803-9100
68 OHM 1/4W CRBN	1	R156- R158, R162	100E-00005-0031	MISC CUSTOM	1	13B	0986-00803-9200
82 OHM 1/4W CRBN	4	R110, R112, R111	100E-00005-0044	NVR CONT	1	1F	0986-00804-3200
100 OHM 1/4W CRBN	1	R117, R120, R123	100E-00005-0051	2K X 8 RAM	1	2B	0304-00803-0067
270 OHM 1/4W CRBN	3	R103, R106, R109	100E-00005-0053	EPROM-A	1	6D	0A27-00803-0001
470 OHM 1/4W CRBN	3	R125, R126	100E-00005-0054	EPROM-B	1	7D	0A27-00803-0002
510 OHM 1/4W CRBN	3	R114	100E-00005-0058	EPROM-C	1	8D	0A27-00803-0003
560 OHM 1/4W CRBN	2	R102, R105, R108, R124, R127, R128, R129, R131, R132, R134-R139, R141, R142, R144, R145, R147, R148, R150, R151, R155	100E-00005-0061	EPROM-D	1	9D	0A27-00803-0004
820 OHM 1/4W CRBN	1	R101, R104, R107	100E-00005-0068	EPROM-E	1	10D	0A27-00803-0005
1K OHM 1/4W CRBN	24	R130	100E-00005-0079	EPROM-F	1	11D	0A27-00803-0006
2K OHM 1/4W CRBN	3	R154	100E-00005-0112	EPROM-BG-A	1	3A	0A27-00803-0007
4.7K OHM 1/4W CRBN	1	RM1, RM2, RM4	102E-00004-0026	EPROM-BG-B	1	4A	0A27-00803-0008
82K OHM 1/4W CRBN	1	RM3	102E-00004-0027	EPROM-BG-C	1	5A	0A27-00803-0009
4.7K 10PIN SIP	3	8A,7B,15F	0986-00803-0400	EPROM-BG-D	1	6A	0A27-00803-0010
4.7K 6PIN SIP	1	5C,10C,3F,14F	0986-00803-1007	EPROM-10 G	1	10G	0A27-00803-0011
74S04	3	8C,6H,7F	0986-00803-1006	JUMPERS	6	JW1, JW2, JW11, JW13, JW14, JW15	0986-00804-4000
74LS04	4	5H	0304-00803-0014	4148	1	D101	103E-00002-0005
74LS08	3	7H	0304-00803-0015	1N5817	1	D102	103E-00003-0009
74LS10	1	7C,15F	0986-00803-3400	2N4123	1	Q1	104E-00001-0007
74LS12	2	14E,4H	0986-00803-9500	MPSA70	6	Q2-Q7	104E-00002-0012
74LS14	1	13F	0304-00803-0065	2N4403	1	Q8	104E-00002-0016
74LS16	1	4C	0304-00803-0016	P.B. SWITCH	1	SW1	0986-00804-3100
74LS32	4	6C,2F,2H,9F	0986-00803-0600	FERRITE BEAD	30	FB1-FB30	0316-00804-0002
74LS74	2	8B,9B	0986-00803-1005	20 MHZ ATAL OSC	1	OSC 1	0304-00804-0007
74LS86	1	4B	0986-00803-9900	24 PIN SOCKET	4	ICS 2H,5G,7G,10G	0986-00804-3400
74LS138	2	8F,1H	0986-00803-1900	40 PIN SOCKET	1	ICS 4G	0986-00804-3500
74LS139	1	9E	0304-00803-0042	8 PIN SOCKET	2	ICS A10B,A12B	0986-00804-3600
74LS153	3	1A,5B,12G	0986-00803-1000	16 PIN SOCKET	2	ICS B10B,B12B	0986-00804-3700
74LS157	10	1C,2C,3C,1D,10E,11E,12E,10F,11F,12F	0986-00803-9700	20 PIN SOCKET	3	ICS 11B,15B,1F	0986-00804-3800
74S161	1	7A	0304-00803-0038	28 PIN SOCKET	12	ICS 3A-6A,9C,6G,6D-11D	0986-00804-3900
74LS161	7	1E,2E,3E,4E,5E,6E,3H	0986-00803-1003	KK100 24 PIN RT ANGLE	5	13-17	0986-00804-4700
74LS174	1	13E	0986-00803-9800	FLEX PAC JUMPER	5	13-17	0986-00804-4800
74LS175	1	7E	0304-00803-0025	FMD HDR .100C	1	12	3000-16366-0902
74LS244	2	4F,5F	0986-00803-0800	OMIT 3			
74LS245	3	1B,6F,8G	0986-00803-0900	FMD HDR .156C	1	11	3000-16900-0901
74LS273	9	2A,3B,6B,2D,9G,11G,3D,4D,5D	0986-00803-1001	OMIT 15			

2684 PART NO FOR KK156 HEADER BK REVISIONS

PROJECT ENG R.A. PLOUSSARD		USED ON SPY HUNTER		Bally / MIDWAY MFG. CO. FRANKLIN, PA. U.S.A.	
DONOR'S ALL DATA		HEAT TREAT	SCALE FULL	NO REQD I PER	
DESIGNER	CHKD	MAT'L	MCR III CPU BOARD ASSEMBLY DWG		
DATE 2/6/84		FINISH	PART NO M051-00304-K003		
			A082-91442-K000		



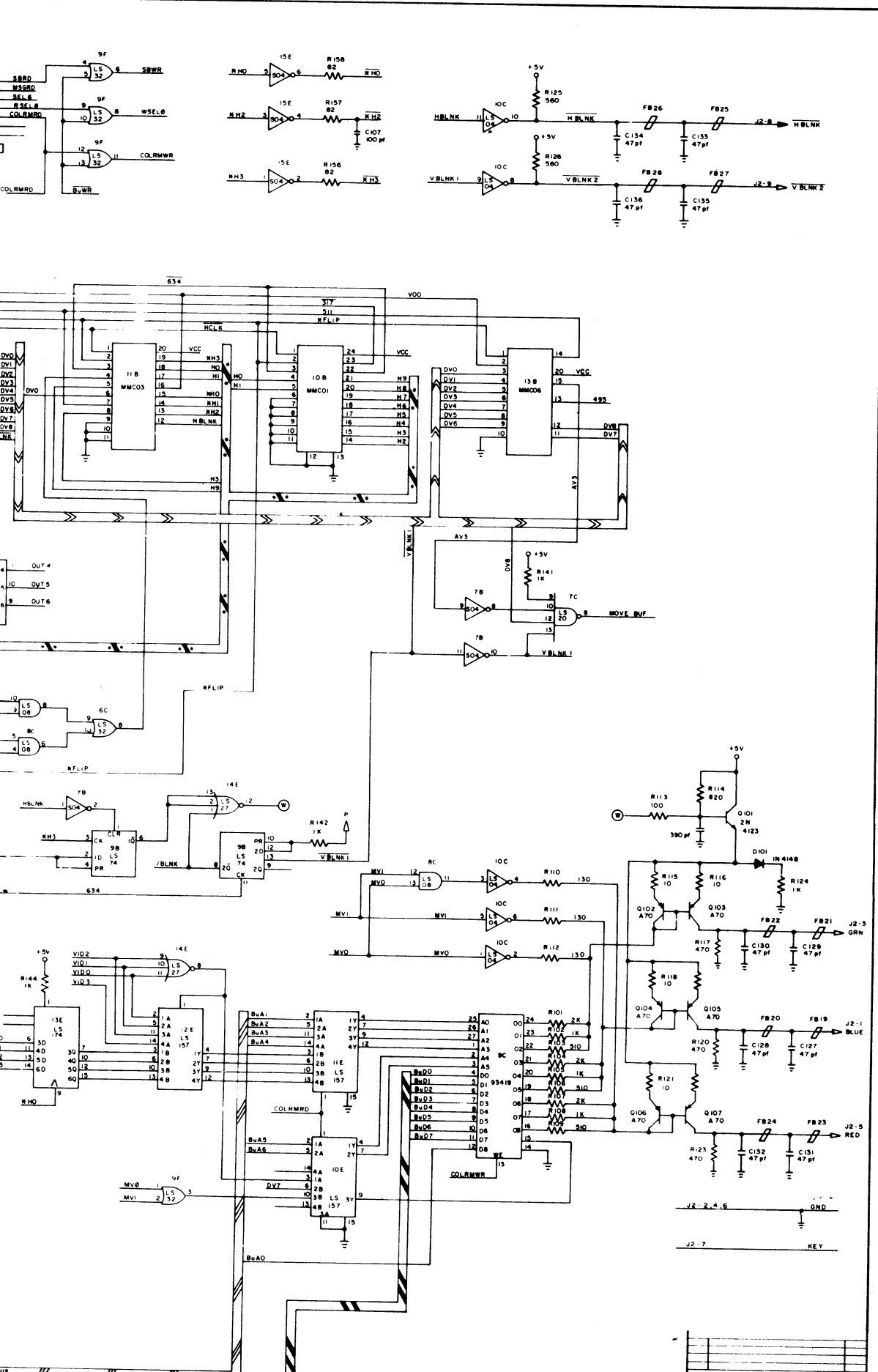
Pin Test Connector

Pin	Signal	Pin	Signal
1	GRD	11	GRD
2	GRD	12	GRD
3	GRD	13	GRD
4	GRD	14	GRD
5	GRD	15	GRD
6	GRD	16	GRD
7	GRD	17	GRD
8	GRD	18	GRD
9	GRD	19	GRD
10	GRD	20	GRD
11	GRD	21	GRD
12	GRD	22	GRD
13	GRD	23	GRD
14	GRD	24	GRD
15	GRD	25	GRD
16	GRD	26	GRD
17	GRD	27	GRD
18	GRD	28	GRD
19	GRD	29	GRD
20	GRD	30	GRD
21	GRD	31	GRD
22	GRD	32	GRD
23	GRD	33	GRD
24	GRD	34	GRD
25	GRD	35	GRD
26	GRD	36	GRD
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38	GRD	48	GRD
39	GRD	49	GRD
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41	GRD	51	GRD
42	GRD	52	GRD
43	GRD	53	GRD
44	GRD	54	GRD
45	GRD	55	GRD
46	GRD	56	GRD
47	GRD	57	GRD
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49	GRD	59	GRD
50	GRD	60	GRD
51	GRD	61	GRD
52	GRD	62	GRD
53	GRD	63	GRD
54	GRD	64	GRD
55	GRD	65	GRD
56	GRD	66	GRD
57	GRD	67	GRD
58	GRD	68	GRD
59	GRD	69	GRD
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61	GRD	71	GRD
62	GRD	72	GRD
63	GRD	73	GRD
64	GRD	74	GRD
65	GRD	75	GRD
66	GRD	76	GRD
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68	GRD	78	GRD
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77	GRD	87	GRD
78	GRD	88	GRD
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82	GRD	92	GRD
83	GRD	93	GRD
84	GRD	94	GRD
85	GRD	95	GRD
86	GRD	96	GRD
87	GRD	97	GRD
88	GRD	98	GRD
89	GRD	99	GRD
90	GRD	100	GRD

NOTES:  
 A = ANALOG  
 E = EARTH  
 L = LOGIC  
 N.T. = NOT TEST

BUFFERED DATA BUS





PROJECT ENG	R. A. PLOUSSARD	USED ON	SPY HUNTER	DATE	08/84
DESIGNED BY		SCALE	FULL	NO REVS	1 PER
CHECKED BY		DATE			
SCHEMATIC DWG			PART NO		
CPU BOARD MCR III			MOSI - 00304 - K004		
A080 - 91442 - K000			FRANKLIN, ILL.		