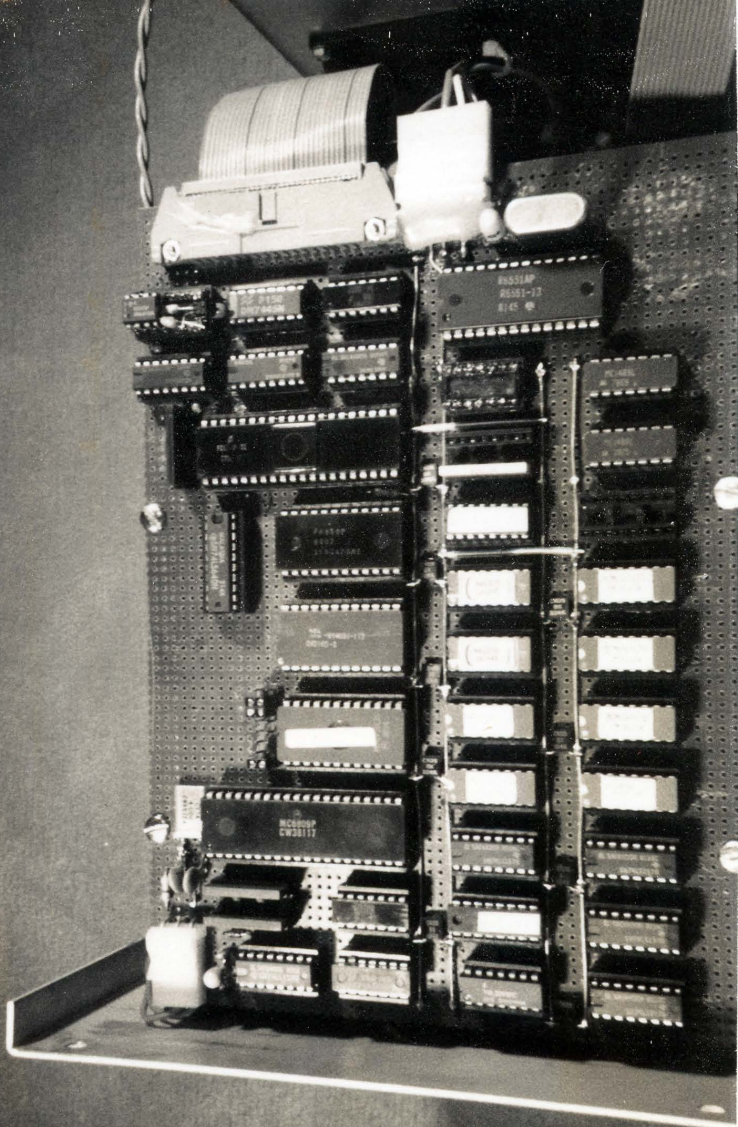


6809 MINI

APPROVED BY:	DRAWN BY:
SCALE:	REVISED 7 NOV 82
DATE: 20 SEPT 81	DRAWING NUMBER



# PARTS LIST

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## 6809 MINI

QTY	PART NUMBER	DESCRIPTION	REFERENCE	NOTES	
1	MC6809	MICROPROCESSOR	U1		32.00
1	4702 B	BAUD RATE GEN	U2		15.00
1	74LS640	INVERTING BUFFER	U3		15.00
1	FD1771	DISK CONTROLLER	U4		25.00
1	74LS259	ADDRESSABLE LATCH	U5		2.95
1	7438		U6		.29
1	74LS02		U7		.28
1	74LS00		U8		.26
1	2716	2K X 8 EPROM	U9		9.00
1		2K X 8 RAM	U10		15.00
1	MC6850	ACIA	U11		6.00
1	74367		U12		.86
1	7406		U13		.23
1	74LS393	BINARY COUNTER	U14		1.95
1	74S287	256 X 4 PROM	U15		4.00
4	74LS157		U16 U24-U26		.85 3.40
8	MCM6665	64K X 1 DRAM	U17-U20 U27-U30		150.00
1	74S288	32 X 8 PROM	U21		4.00
1	NE556	DUAL TIMER	U22		.98
1	6551	ACIA / BAUD RATE GEN	U23		25.00
1	CY3A 4.000	4.000 MHz	Y1		7.50
1		2.4576 MHz	Y2		7.50
2		3.3K R PAK SWITCH	RP1 RP2		
1		2.2K R PAK	RP3		
1		330 R PAK	RP4		
1		34 PIN HEADER	J1		
1		4 PIN POWER	J2		
1			J3		
13		0.1mf			1.95
2		56 PF			.15
2		22 PF			.15

# PARTS LIST

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QTY	PART NUMBER	DESCRIPTION	REFERENCE	NOTES	
1		8 PIN WW			.44
6		14 PIN WW			.53 3.18
24		16 PIN WW			.58 13.92
1		20 PIN WW			1.00
3		29 PIN WW			1.09 3.27
1		28 PIN WW			1.43
2		40 PIN WW			1.85 3.70
1		34 PIN HEADER	J1		3.50
1		4 PIN SOCKET	J2		
1			J3		
2		DB 25 S	J4 J5		7.00
1		4 POSITION DIP SWITCH	J6	POWER	
2		AMP	P1 P2		
		4 POS			
1		4 POSITION DIP SWITCH	S1		.88
1		DPST	S2		1.20
1			S3		1.20
1				fuseholder	
1		5V 3A POWER SUPPLY			25
1		12V 1.8A POWER SUPPLY			25
1	BUD 180-	CAB.			70
	SA-400	5 1/2 DISK DRIVE			300
		DISK CABLE			12.00

# PARTS LIST

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SUB ASSEMBLIES

QTY	PART NUMBER	DESCRIPTION	REFERENCE	NOTES
2	2N3906		E2	E5 RS-232
2	2N3904			
2	1N4148			
2		100 $\Omega$ 1/4W		
2		1K 1/4W		
2		6.8K 1/4W		
4		3.3K 1/4W		
2		16 PIN DIP HEADER		
3		0.01 $\mu$ F		E3 TIMER
1		0.1 $\mu$ F		
1		6.8 $\mu$ F		
1		1K 1/4W		
1		750K 1/4W		
1		1M 1/4W		
1	2N3906			
1		16 PIN DIP HEADER		
1	NE555	TIMER		E4 -5V .39
1	79L05	-5V REGULATOR		.79
2	1N4148	DIODE		
1		1K 1/4W		
1		15K 1/4W		
1		33K 1/4W		
2		0.01 $\mu$ F		
1		0.1 $\mu$ F		
1		6.8 $\mu$ F		
1		22 $\mu$ F		
1		16 PIN DIP HEADER		
1		3.3K		E1 RESET
1		1N4148		
1		10 $\mu$ F		
1		330		
1		LED		
1		PUSH ON SWITCH	S2	
1		16 PIN DIP HEADER		

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6809 DECODE PROM

LOC	I/O					RD	WR	DRIVE WR	FDC RD	PIA 111	FDC 110	ACIA 001	LOC	DATA
	A4	A3	A2	A1	A0									
00	0	0	0	0	0	1	0	1	1	x	1	1	00	B7
01	0	0	0	0	1	1	0	1	1	x	1	0	01	B6
02	0	0	0	1	0	1	0	1	1	x	1	1	02	B7
03	0	0	0	1	1	1	0	1	1	x	1	1	03	B7
04	0	0	1	0	0	1	0	1	1	x	1	1	04	B7
05	0	0	1	0	1	1	0	0	1	x	1	1	05	97
06	0	0	1	1	0	1	0	1	1	x	1	0	06	B5
07	0	0	1	1	1	1	0	1	1	x	0	1	07	B3
08	0	1	0	0	0	0	1	1	1	x	1	1	08	77
09	0	1	0	0	1	0	1	1	1	x	1	0	09	76
0A	0	1	0	1	0	0	1	1	1	x	1	1	0A	77
0B	0	1	0	1	1	0	1	1	1	x	1	1	0B	77
0C	0	1	1	0	0	0	1	1	1	x	1	1	0C	77
0D	0	1	1	0	1	0	1	1	1	x	1	1	0D	77
0E	0	1	1	1	0	0	1	1	0	x	1	0	0E	65
0F	0	1	1	1	1	0	1	1	1	x	0	1	0F	73
10	1	0	0	0	0	1	0	1	1	x	1	1	10	B7
11	1	0	0	0	1	1	0	1	1	x	1	1	11	B7
12	1	0	0	1	0	1	0	1	1	x	1	1	12	B7
13	1	0	0	1	1	1	0	1	1	x	1	1	13	B7
14	1	0	1	0	0	1	0	1	1	x	1	1	14	B7
15	1	0	1	0	1	1	0	1	1	x	1	1	15	B7
16	1	0	1	1	0	1	0	1	1	x	1	1	16	B7
17	1	0	1	1	1	1	0	1	1	x	1	1	17	B7
18	1	1	0	0	0	0	1	1	1	x	1	1	18	77
19	1	1	0	0	1	0	1	1	1	x	1	1	19	77
1A	1	1	0	1	0	0	1	1	1	x	1	1	1A	77
1B	1	1	0	1	1	0	1	1	1	x	1	1	1B	77
1C	1	1	1	0	0	0	1	1	1	x	1	1	1C	77
1D	1	1	1	0	1	0	1	1	1	x	1	1	1D	77
1E	1	1	1	1	0	0	1	1	1	x	1	1	1E	77
1F	1	1	1	1	1	0	1	1	1	x	1	1	1F	77

WRITE I/O

READ I/O

ACIA 04 0 01 xx  
 DRIVE 14 1 01 xx  
 FDC 18 1 10 xy  
 PIA 1C 1 11 xy

NATIONAL  
 745283 08 02