

All items shown in YELLOW highlight are included in Bob's partial kits. You will need to source the remaining parts.

B. PARTS LIST

REFERENCE DESIGNATOR	MANUFACTURER	PART NUMBER	SUPPLIER	STOCK NUMBER	DESCRIPTION
U4	Atmel	ATF16V8B15PC	Arrow		CMOS PLD (Flash)
U12, U11	Atmel	ATF22V10B15PC	Arrow		CMOS PLD (Flash)
J4	Comm Con	1184-50G2	Comm Con		50 pin female header
U1	CTS Reeves	MXO45HS-5000	Digi-Key	CTX157	5.0000 MHz half size clock oscillator
U23	CTS Reeves	MXO45HS-4915	Digi-Key	CTX156	4.9152 MHz half size clock oscillator
D2	Dialight	555-4403	Digi-Key	350-1371	Quad LED indicator with integral resistors
J3	3M	2510-5002	Digi-Key	MHD10K	10 pin low profile right angle shrouded header
J2	3M	2540-5002	Digi-Key	MHD40K	40 pin low profile right angle shrouded header
F1	Littelfuse	473.500	Digi-Key	F1200CT	0.5A picofuse
U9, U10		27C64	Jameco	39845	8K x 8 CMOS EPROM (250ns)
U16		HD6402	Jameco	43158	CMOS UART
U17	Maxim	MAX232CPE	Jameco	24811	Dual +5V only RS-232 transmitter/receiver
U18		82C55A	Jameco	52425	CMOS Programmable Peripheral Interface (5MHz)
D1		1N4734	Jameco	178790	6.0V 500mW DO-41 Zener diode
S1	C&K	TP11-SH8-ABE	Jameco	71642	PC mount right angle push button switch
C37			Jameco	94123	47uF 25V radial lead tantalum capacitor
C32, C31, C30, C29			Jameco	154860	1uF 25V radial lead tantalum capacitor
J1	Molex	15-24-4041	Jameco	117567	4 pin right angle header
			Jameco	39386	Machined pin DIP sockets (22V10)
			Jameco	38623	Machined pin DIP socket (16V8)
			Jameco	40328	Machined pin DIP sockets (27C64)
			Jameco	41136	Machined pin DIP socket (HD-6120)
J14, J13, J12, J11, J10			Jameco	SMH02	2 pin header (jumper)
U3, U2		74HC373	JDR		Octal D latch
U13		74HC365	JDR		Hex tri-state buffer
U14		74HC245	JDR		Octal tri-state buffer
U15		74HC4040	JDR		12 stage binary ripple counter
U19		74HC05	JDR		Hex inverter with open drain outputs

REFERENCE DESIGNATOR	MANUFACTURER	PART NUMBER	SUPPLIER	STOCK NUMBER	DESCRIPTION
U22, U20		74HC74	JDR		Dual D flip-flop
U21		74HC175	JDR		Hex D flip-flop
U24		74HC04	JDR		Hex inverter
U99	Dallas Semi	DS1233D	JDR		5V EconoReset
U5	Harris	HD6120			12 bit microprocessor
U8, U7, U6	Hitachi	HM6208HP			64K x 4 static RAM
	Spare Time Gizmos	SBC6120-2D	PCB Express		SBC6120 REV D PC Board
C22, C21, C20, C19, C18, C17, C16, C15, C14, C13, C12, C11, C10, C9, C8, C7, C6, C5, C4, C3, C2, C1					0.1uF 50V mono ceramic capacitor (0.1" lead spacing)
R10, R8, R5, R4, R3, R2, R1					10K 5% 1/8W carbon resistor
R6					4.7K 5% 1/8W carbon resistor

Table 17 – SBC6120 Parts List

A. PARTS LIST

REFERENCE DESIGNATOR	MANUFACTURER	PART NUMBER	SUPPLIER	STOCK NUMBER	QTY	DESCRIPTION
U1, U2		74HC373	JDR		2	Octal D Tri-State Latch
U3, U4		74HC174	JDR		2	Hex D flip-flop
U5, U6, U9, U10		74HC366 or 368	JDR		4	Hex Tri-State Inverting Buffer (either the 74HC366 or 74HC368 may be used!)
U7	Atmel	ATF22V10B15PC	Arrow		1	CMOS PLD (Flash)
U8		7555	JDR		1	CMOS Timer (may be TLC555)
U11		74HC74	JDR		1	Dual D flip-flop
U12		74HC05	JDR		1	Hex Open Drain Inverting Buffer
U13	Atmel	ATF16V8B15PC	Arrow		1	CMOS PLD (Flash)
REG1	TI	PT78HT205H	Digikey	PT78HT205H	1	5V 2A Switching Regulator 3 pin SIP Horizontal (Can use PT78HT305H for extra current)
D1		1N5820	Digikey	1N5820GICT	1	Schottky Diode 3A 20V DO-201
D2		1N5339	Digikey	1N5339BMSCT	1	Zener Diode 5.6V 5% 5.0W T-18
F1	Littelfuse	473.003	Digikey	F1204CT	1	3A picofuse
R1			Digikey	BC10.0KXCT	1	10.0K 1% 1/8W carbon resistor
R2			Digikey	BC17.4KYCT	1	17.4K 1% 1/8W carbon resistor
R3, R4					2	10K 5% 1/8W carbon resistor
RP1, RP2			Digikey	4310R-1-561	2	560 ohm 10 Pin SIP Resistor
RP3, RP4			Digikey	4308R-1-561	2	560 ohm 8 Pin SIP Resistor
RP5, RP6			Digikey	4308R-1-472	2	4.7K ohm 8 Pin SIP Resistor
RP7			Digikey	4310R-1-472	1	4.7K ohm 10 pin SIP Resistor
RP8			Digikey	4306R-1-472	1	4.7K ohm 6 pin SIP Resistor
C1			Digikey	399-1429	1	1uF 25V radial lead tantalum capacitor
C2, C7			Digikey	399-1906	2	Unused (0.01uF 10VDC Mono ceramic capacitor)
C8			Digikey		1	100uf 25V radial lead aluminum electrolytic
C9, C10, C11, C12, C13, C14, C15, C16, C18, C19, C20, C21					12	0.1uF 50V mono ceramic capacitor (0.1" lead spacing)
J1	Comm Con	1184-50G2	STG	1184-50G2	1	50 pin Male / Female Stackable connector
J2	Comm Con	1185-50G	STG	1185-50G	1	50 pin Female connector

REFERENCE DESIGNATOR	MANUFACTURER	PART NUMBER	SUPPLIER	STOCK NUMBER	QTY	DESCRIPTION
J3	CUI Stack	PJ-102AH	Digikey	PJ-102AH	1	PCB Mount Jack 2.1 x 5.5mm High Current
J4						2 pin male header (see section 2.5.4)
J5						2 pin female header (see section 2.5.4)
JP1, JP2			Jameco	SMH02	2	2 pin header (Jumper)
FB1, FB2					2	Ferrite Bead (0.400" Lead spacing)
S1, PLOCK	C&K	T101MH9ABE	Digikey	CKN1067	2	SPDT Tiny Toggle Switch, PCB Mount Right Angle
	C&K	7101J60V6BE1			13	SPDT PCB mount paddle switch, ON-NONE-ON
	C&K	7108J60V6BE1			7	SPDT PCB mount paddle switch, ON-NONE-MOM
	Lorlin	10WA346	Mouser	10WA346	1	3 pole 4 position PCB mount rotary switch
	Kingbright	L53ID	Mouser	604-L53ID	28	Red LED, T1-3/4 high efficiency
	Keystone	8555	Digikey	8555K	1	Knob, round 0.7" diameter
	Keystone	1560A	Mouser	534-1560A	20	4-40 solder in stand offs, 0.125" high, 0.250" diameter
		Spare Time Gizmos		FP6120-1D	1	FP6120 PC board, revision E
		Spare Time Gizmos		FP6120-FPK	1	FP6120 Faceplate Kit
		Spare Time Gizmos		FP6120-LBK	1	FP6120 LED Aligner/Spacer Bar Kit
					1	24 Pin Machined Pin DIP Socket (0.300")
					3	20 Pin Machined Pin DIP Socket
					6	16 Pin Machined Pin DIP Socket
					2	14 Pin Machined Pin DIP Socket
					1	8 Pin Machined Pin DIP Socket
					5	#4-40 1/2" round nylon M/F spacers
					5	#4-40 1/4" nylon screws

Table 4 – FP6120 Parts List