

Q&L Development Board
 Stuffing Order
 Sept. 20, 2009

Quantity	Designation	Part Description	Obtain in class	Obtain in lab
1		Q&L Development Board with U1 (5V regulator) already installed (5V regulator - MAX603CSA)	■	
2	C3,4	15 pf 200V ceramic radial capacitor		■
4	C1,5,6,7	0.1uf 50V ceramic radial capacitor		■
1	R7	100 ohm 1/4W axial carbon resistor brown-black-brown		■
2	R2,4	1.0K ohm 1/4W axial carbon resistor brown-black-red		■
3	R8,9,10	22K ohm 1/4W axial carbon resistor red-red-orange		■
1	R6	47K ohm 1/4W axial carbon resistor yellow-violet-orange		■
1	R3	100K ohm 1/4W axial carbon resistor brown-black-yellow		■
2	R5,11	1.0M ohm 1/4W axial carbon resistor brown-black-green		■
1	POT1	20 Kohm trimpot ("1 3362 3" label toward bottom of board)		■
1	PB1	Pushbutton switch		■
1	U2X	40-pin DIP socket for microcontroller (dimple toward top of board)	■	
1	LED1	Low-current red LED [long lead (anode) on right]		■
1	Y1	32,768 Hz watch crystal (tack down with hot glue)		■
1	LCD1	2x7-pin straight double row male header - gold		■
1	CON1	Female DB-9 socket	■	
1	C2	3.3 uf 25V electrolytic capacitor (+ pin on right)		■
2	TJ1,2	Banana jacks (tighten with wrenches)		■
2	H1,4	2-pin straight single row male header - gold		■
2	H1X,H4X	100 mil shunt		■
1	SW1	Toggle switch (power switch)		■
1	Ground	Bare AWG 18 wire "ground grabber"		■
1	RPG1	Rotary pulse generator/pushbutton switch		■
1	BT1	9V battery (Put clips on battery and then insert in board with + terminal of battery toward bottom of board. Solder. Remove battery.	■	
		Wash off water-soluble flux with soap and toothbrush beneath a faucet of running water. Dry with hairdryer.		
4		Rubber feet for corners on back of board		■
1	U2	PIC18LF4321-I/P microcontroller, already programmed with QwikBug	■	
		With SW1 power switch down (off), restore 9V battery		