

# X-Checker Crystal Grinding Kit v4 & v5

## Crystal Oscillator & Frequency Counter

	Qty	Value	Label	Notes
<b>Resistors</b>				
<input type="checkbox"/>	1	510Ω	Green-Brown-Black	
<input type="checkbox"/>	3	1KΩ	Brown-Black-Red	
<input type="checkbox"/>	1	10KΩ	Brown-Black-Orange	
<input type="checkbox"/>	1	47KΩ	Yellow-Violet-Orange	
<input type="checkbox"/>	1	100KΩ	Brown-Black-Yellow	
<input type="checkbox"/>	1	120KΩ	Brown-Red-Yellow	
<input type="checkbox"/>	1	820KΩ	Grey-Red-Yellow	
<input type="checkbox"/>	1	1MΩ	Brown-Black-Green	
<input type="checkbox"/>	1	20KΩ	Trim pot	
	<b>12</b>	<b>Total Resistors</b>		

<b>Capacitors</b>				
<input type="checkbox"/>	1	10pf	100 - 0.1"	
<input type="checkbox"/>	1	22pf	220 - 0.1"	
<input type="checkbox"/>	2	47pf	470 - 0.2"	
<input type="checkbox"/>	1	150pf	151 - 0.2"	
<input type="checkbox"/>	1	680pf	681 - 0.2"	
<input type="checkbox"/>	2	1000pf	102 - 0.2"	
<input type="checkbox"/>	1	0.047μf	473 - 0.1"	
<input type="checkbox"/>	3	0.1μf	104 - 0.2"	
<input type="checkbox"/>	1	1.5μf	1u5 - 0.1"	
<input type="checkbox"/>	1	10μf	10uf	
<input type="checkbox"/>	1	4-20pf	Trim capacitor	
	<b>15</b>	<b>Total Capacitors</b>		

<b>Semiconductors</b>				
<input type="checkbox"/>	2	PN2222	transistor	
<input type="checkbox"/>	1	2N3904	transistor	
<input type="checkbox"/>	1	78L05	voltage regulator	
<input type="checkbox"/>	3	1N4148	diode (1n914)	
<input type="checkbox"/>	1	LED Green		
<input type="checkbox"/>	1	LED Red		
<input type="checkbox"/>	1	4 Mhz Crystal		

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	Qty	Value	Label	Notes
<input type="checkbox"/>	1	7HC132	integrated circuit	
<input type="checkbox"/>	1	PIC16F628A	microprocessor	
<input type="checkbox"/>	1	2x16 LCD Display		
	<b>13</b>	<b>Total Semiconductors</b>		

<b>Miscellaneous</b>				
<input type="checkbox"/>	3	1x8x0.1" Male Molex	header	
<input type="checkbox"/>	2	1x8x0.1" Female Molex	header	
<input type="checkbox"/>	1	18 pin DIP IC socket		
<input type="checkbox"/>	1	14 pin DIP IC socket		
<input type="checkbox"/>	1	3 pin SIP female socket		
<input type="checkbox"/>	2	1x2x0.1" Jumper		1 in v4 kit, 2 in v5 kit
<input type="checkbox"/>	1	RCA Female Jack		
<input type="checkbox"/>	1	9V+ battery snap (in)		
<input type="checkbox"/>	1	9v- battery snap (out)		
<input type="checkbox"/>	1	Switch		
<input type="checkbox"/>	1	X-Checker PCB		
<input type="checkbox"/>	1	Small Bag		
<input type="checkbox"/>	1	Large Bag		
	<b>16</b>	<b>Total Miscellaneous</b>		