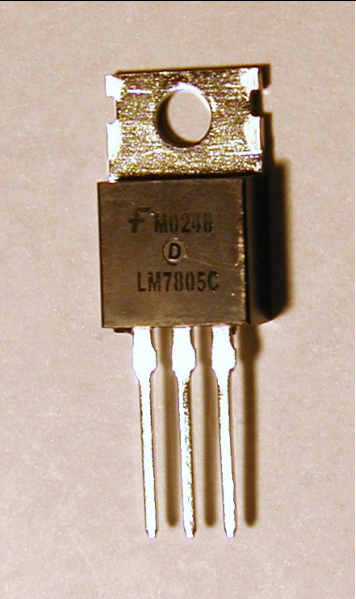
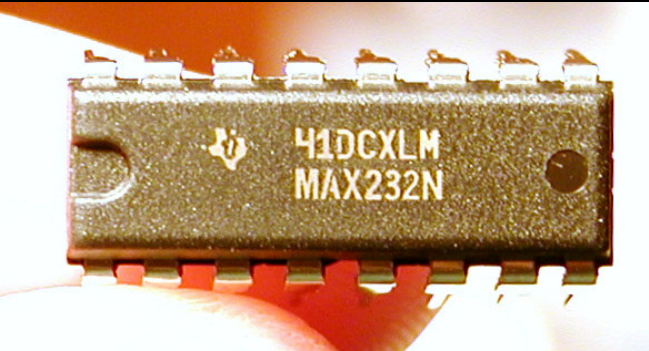
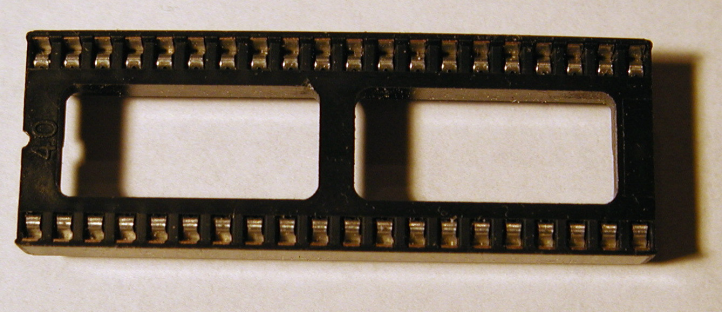

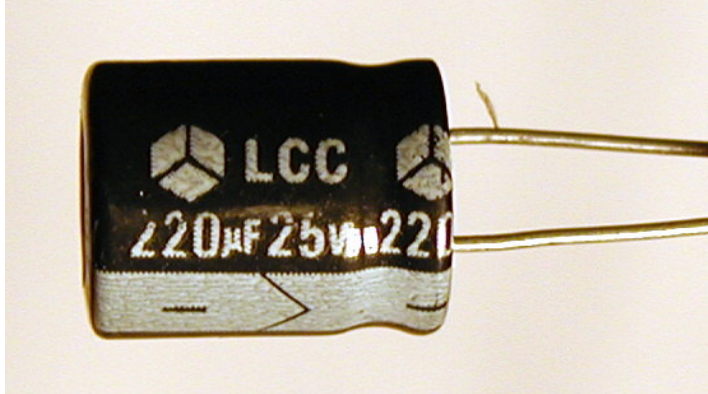
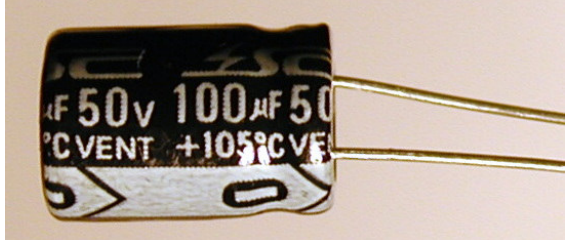
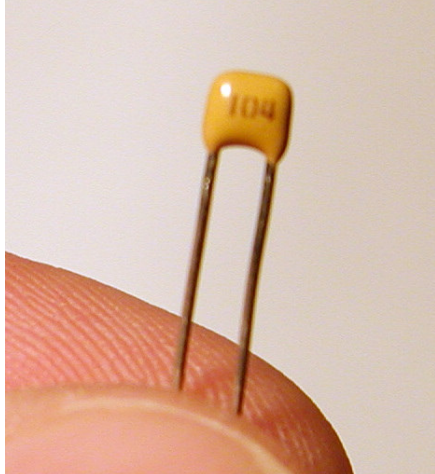
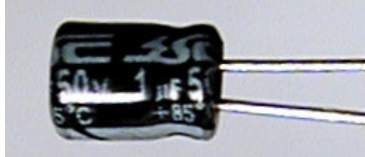


# DerbyTimer.com Rev2 Timer Board

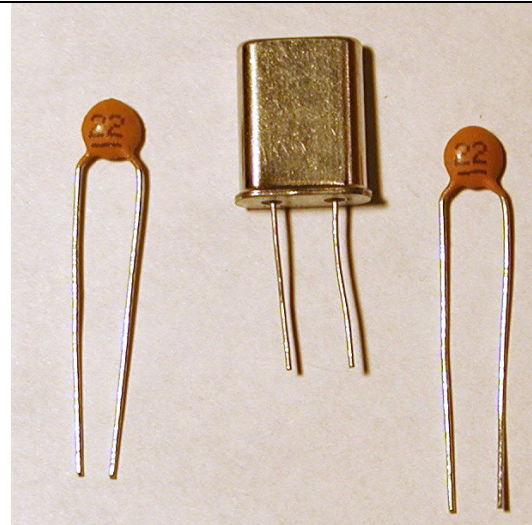
The information in this manual is for the revision 2 (Rev2) DerbyTimer.com Timer Board.  
*The part ID numbers, etc., will not match the original revision 1 boards.*

## Component Identification Manual

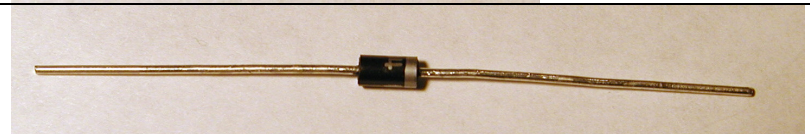
<p><b>IC1</b> 7805 Voltage Regulator</p> <p>If your kit includes the display driver board, be sure you use the part labeled 7805</p> <p><i>(The driver board uses a 7812 +12volt regulator)</i></p>	 A photograph of an LM7805C voltage regulator. It is a black, TO-18 package with three pins extending from the bottom. The top of the package has a circular hole. The text "LM7805C" and "M0248" are visible on the top surface.
<p><b>IC2</b> MAX232</p>	 A photograph of a MAX232CPE level shifter. It is a black, DIP package with 16 pins. The text "MAX232N" and "41DCXLM" are visible on the top surface.
<p>40 pin socket for IC3</p>	 A photograph of a black, 40-pin DIP socket. It has two large rectangular cutouts in the center and a row of 40 pins along the bottom edge.

<p><b>IC3</b> PIC16F877A</p>	
<p><b>C1</b> 220 uF 25v electrolytic capacitor</p>	
<p><b>C2</b> 100 uF 16v electrolytic capacitor</p>	
<p><b>C3,C7,C10</b> 100nF monolithic capacitor (100nF = 0.1uF)</p>	
<p><b>C4,C5,C6,C8,C9</b> 1uF electrolytic capacitor</p>	

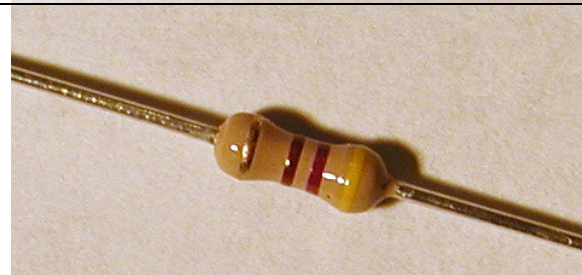
**Q1**  
**C11, C12**  
20 MHz XTAL  
crystal  
with matched  
22 pF monolithic caps



**D1, D2**  
1N4004 Diode



**R1**  
470 ohm resistor



**RN1**  
10k ohm x 9 Resistor Network  
(Stripe on left end denotes pin 1)

