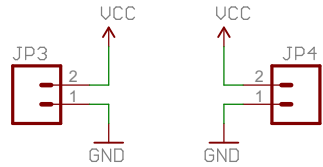
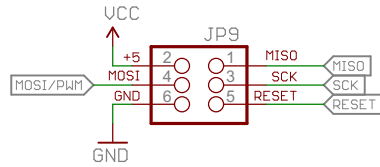


### Power Input/ Daisy-Chain Output

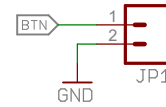


Expecting 5VDC power.  
Current consumed is dependent  
on servo type and loading.

### ISP Connection

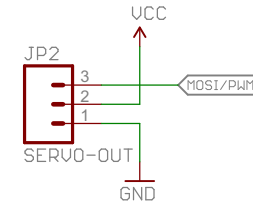


### Button Connection

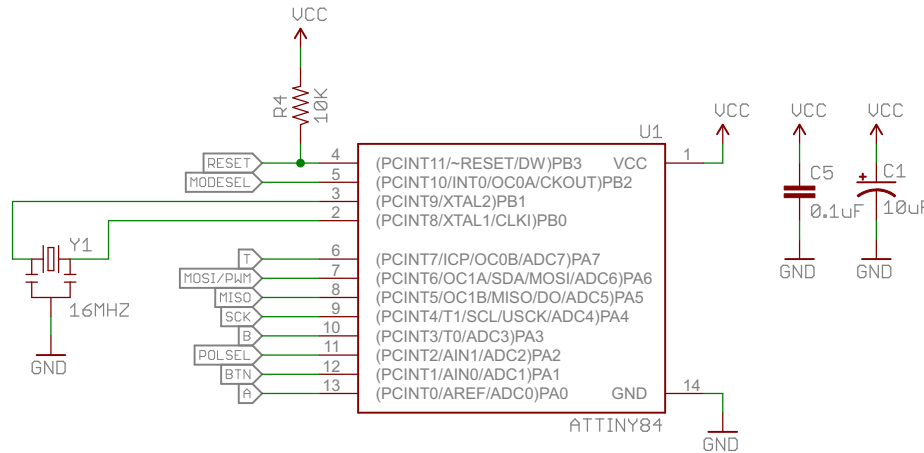


Pulled up internally in processor  
Datasheet says R<sub>up</sub> is in the 20K to 50K range.

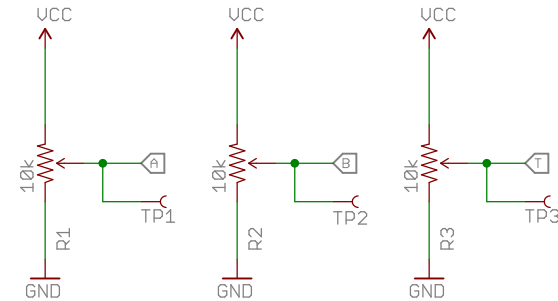
### Servo Motor Output



### Microcontroller



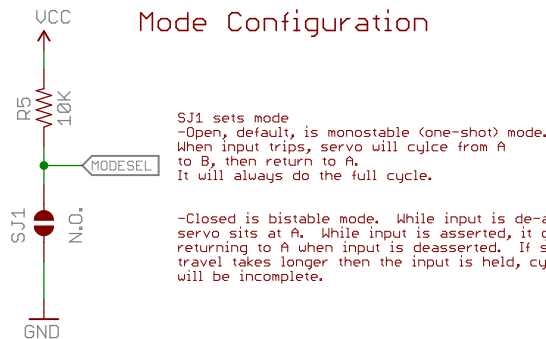
### Control Potentiometers



These pots control the servo position and timing.

"A" sets the default position if the servo.  
"B" sets the position it travels to when the switch  
is actuated (whether it stays there or not is  
configured with the mode jumper).  
"T" sets the time it takes to move from A to B  
and back, over a range of 0 to 10 seconds.

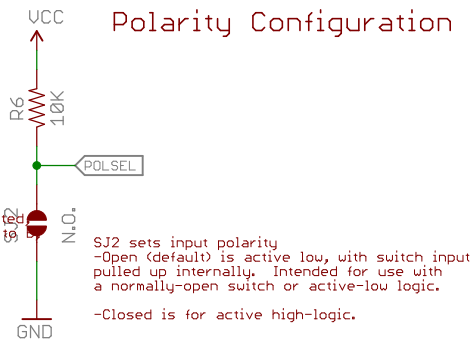
### Mode Configuration



SJ1 sets mode  
-Open, default, is monostable (one-shot) mode.  
When input trips, servo will cycle from A  
to B, then return to A.  
It will always do the full cycle.

-Closed is bistable mode. While input is de-asserted,  
servo sits at A. While input is asserted, it goes to  
B. When input returns to A, servo returns to A.  
If servo travel takes longer than the input is held,  
cycle will be incomplete.

### Polarity Configuration



SJ2 sets input polarity  
-Open (default) is active low, with switch input  
pulled up internally. Intended for use with  
a normally-open switch or active-low logic.

-Closed is for active high-logic.



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TITLE: SparkFun\_Servo\_Trigger\_v10

Design by:  
Byron Jacquot

REV:  
V10

Date: 3/9/2015 1:55:36 PM

Sheet: 1/1