

## Envelope Contents and Process

SERB

(DEC 22 08)

## Arduino Controlled Servo Robot

Label Details					
<b>File:</b>	\\Current\CCCC - Final Files For Projects\SERB Final Files\00-Production Files(V 1.0) SERB Envelope Labels.cdr				
<b>Label Size:</b>	(1" x 2 5/8")				
Envelope Sizes:					
<b>Small Envelope:</b>	Coin Envelope #1 (2 1/4" x 3 1/2")				
<b>Large Envelope:</b>	Coin Envelope #6 (3 3/8" x 6")				
			#	Extra	Note
<b>ENV 01</b>	<b>3 mm Hardware – small</b>				
	BOL-03-10	3mmX10mm Machine Screw	12	+2	0.78g each (10.77g)
	BOL-03-15	3mmX15mm Machine Screw	20	+4	1.03g each (24.81g)
	NUT-03-01	3mm Hex Nut	34	+4	0.31g each (12.09g)
	WASH-03-01	3mm Washer	12	+4	0.12g each (1.99g)
<b>ENV 02</b>	<b>8 mm Hardware – small</b>				
	BOL-08-25	8mmX25mm Hex Bolt	2		
	NUT-08-01	8mm Nut	2		
	BEAR-01	Skate Bearing	2		
<b>ENV 03</b>	<b>Arduino – large</b>				
		<b>1. Cut Small hole to insert USB Cable</b>			
		<b>2. Install _SERB_Test.pde</b>			
		<b>3. Sticker over opening</b>			
	ELEC-01	Arduino Decimila Board	1		
<b>ENV 04</b>	<b>Breadboard – large</b>				
		<b>1. Remove From Packaging</b>			
	ELEC-07	Breadboard	1		
<b>ENV 05</b>	<b>Wire – large</b>				
		<b>1. Add Double Sided Tape to Back of Battery Box</b>			
	ELEC-06	Quad AA Battery Box	1		
		<b>2. Cut Wire to Length</b>			
		<b>3. Strip ends (~0.25")</b>			
	Wire-99-P-15	15 cm purple wire (22Awg Solid)	2	+2	
	Wire-99-R-05	5 cm red wire (22Awg Solid)	2	+2	
	Wire-99-B-15	15 cm black wire (22Awg Solid)	1	+2	
	Wire-99-B-05	5 cm black wire (22Awg Solid)	2	+2	
		<b>4. Solder plug to battery Cap</b>			
	ELEC-09	2.1 mm Plug	1		
	ELEC-10	9V Battery Cap	1		
		<b>5. Shift plastic piece to the middle using template</b>			
	ELEC-11	3 pin header	2	+1	
<b>ENV 06</b>	<b>Servo – large</b>				
		<b>1. Drill Holes in servo Horn (second out on 2 &amp; 4)</b>			
	SERV-02	Servo Horn	2		
	SERV-03	Continuous Rotation Servo	2		
<b>ENV 07</b>	<b>O-ring – large</b>				
	RING-01	11.7cm ID O-ring (3/16" bead) size	2		
	RING-02	2.2 ID O-ring (3/16" bead) size 31	1		