



Supplies Needed

Purchased Materials Needed:

On-Stage 6" Gooseneck.....**\$5.99**
 On-Stage TM03 Table
 Microphone Clamp**\$6.88**
 1.5 In. PVC Connector.....**\$6.65**
 BM-4 Mirror Ball Motor.....**\$10.00**
 Scrap wood 1"x.5"x.5"**\$0**
 Industrial Strength Velcro...**\$1.50**
 1 cup measuring cup.....**\$2.00**
 3.5 mm Audio cable with male and female ends**\$1.50**
 Thin copper sheet**\$1.00**
Total Cost: \$28.52

Cost of device retail: \$180.00
 Total Savings: **\$154.48**

Tools Needed:

- Drill and bits
- Clamps to use while drilling
- Craft glue
- Double sided sticky tape
- Scissors
- Index card



Store Suggestions and Contact Info.

Where to Buy Materials

Product	Store
On-Stage TM03 Clamp & Gooseneck (MSA9030-6)	Amazon.com, local music stores, guitar stores
PVC Connector	Home improvement store
BM-4 Mirror Ball Motor	Party City, amazon.com
Thin sheets of Copper for embossing	Ben Franklin, craft store in woodworking section, stained glass making store
Wire for Battery interrupter	Dollar Tree (\$1, cut in half), Radio Shack (\$4, cut in half)



Shelley Jewell

Shelley.jewell@gmail.com
 YouTube ID: suresurehsel
<http://tinyurl.com/pouringcup>

Homemade Switch Activated Pouring Measuring Cup



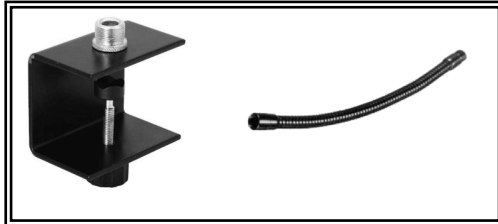
A How-to Guide



Directions by Shelley Jewell, OTS
 VCU Class of 2012

Step 1:

Gather the gooseneck and clamp and attach tightly.



ALTERNATIVE: Purchase a spring clamp at local hardware store. Drill a hole in one of the arms, insert a 5/8" wide bolt and screw gooseneck tightly into the bolt OR salvage a clamp from a desk lamp and attach gooseneck with a 5/8" wide bolt.

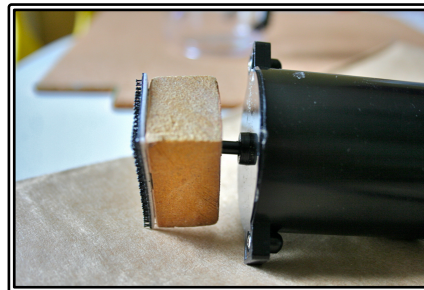
Step 2:

Gather 1.5in. PVC Connector and drill. Clamp down PVC tightly and drill a 1/2" hole in the PVC pipe. Twist the gooseneck tightly to PVC, stop twisting when the top of the gooseneck is flush with the inside of the PVC pipe.



Step 3:

Obtain scrap piece of wood. Mark the center of the rectangular side of the wood and drill a hole equal to the size of the rotating arm of the mirror ball motor. (You may need to try several sizes of drill bits on a different scrap piece of wood to find the size that creates a snug fit.) Squeeze craft glue into the hole and attach to motor arm, wiping excess glue.



Step 4:

Cut a piece of Velcro to match the size of the wood. Squeeze glue onto the wood and adhere the Velcro. This will assure a firm hold. Do the same for the measuring cup. **Be sure to test out the direction the measuring cup will be pouring to attach the Velcro to the correct side.**



Step 5:

Make battery interrupter.
For instructions on making a battery interrupter visit the following website:
<http://www.instructables.com/id/No-Solder-Battery-Interrupter/>



Step 6:

Attach motor to PVC pipe. Run wire through PVC and push the motor through the hole. Stop when the PVC is slightly over the ON/OFF switch of the motor and firmly attached.



CONGRATS! You now have a homemade switch activated pouring cup! E-mail me with feedback and share with your friends!
Thank you.