



Digital Patterns

Designed by Steve Good

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Home of Scroll Saw Pattern Printer



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Marble Climber Automata



There are several complex steps to this project. I have produced a video that highlights construction tips that will make the assembly and tuning easier.

Watch the video at http://www.youtube.com/user/sdgood





The top of each piston must have a channel to direct the marble to the next piston to it's left. Watch the accompanying video for details.







that moves the marble toward the first piston.



Holes in the cams will be drilled to the size of the shaft.





Left Side 3/4" Thick

3" x 5"

The hole should be drilled through both pieces at the same time. This makes sure they are center with each other.

Hole for shaft. Note that it is not drilled on center. Make sure to assemble in this orientation.

Right Side 3/4" Thick

3" x 5"

The hole should be drilled through both pieces at the same time. This makes sure they are center with each other.



Hole for shaft. Note that it is not drilled on center. Make sure to assemble in this orientation.



Holes drilled to the size of the shaft.

Crank dowel 2" long.



Crank Cam



Turn around 3/4" x 3" ½" Thick



1/4" Thick





Cut a piece 6" long 7/8" tall and 3/4" Thick. Glue this pattern piece to the blank and cut the angles. The top of this ramp will be grooved for the marble to ride in. See picture



Base not drawn to scale.

Cut the base 12" x 4" fro 3/4" thick stock.

Dowel Shaft not to scale.

8 1/2" long