

# McGinn's Woodshop

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*In the video, I describe the steps to take. This document is to clear any questions or simply as a reference to print and have nearby. If you like this project or have any feedback, please feel free to leave your comments on my Face book Page or YouTube Channel.*

**My goal is quite simple. I'm aiming to design a few difference series of types of projects such as kids toys, shop tools, handy helpers, and whatever else comes to mind. Though simple, it creates a challenge I enjoy.**

**The challenge is to come up with a design that minimizes time on the X-Carve and assembly but leaves a quality product that is customizable. For instance, this car can be customized on the side.**

**My Webpage**

[www.McGinnsWoodshop.ca](http://www.McGinnsWoodshop.ca)

**My YouTube Channel**

**Inventables Project Page**

<https://www.inventables.com/projects/kids-toy-rattle>

# Make a Kids Toy Rattle on the X-Carve

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**Material:** Maple or choice of wood  
½" Dowel  
Popcorn Kernels  
Drill, Sandpaper, Glue

**Size:** ¾" x 5.5" x 13"

**Bit:** 1/8<sup>th</sup> Fluted

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*Watch the video*

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# Instructions

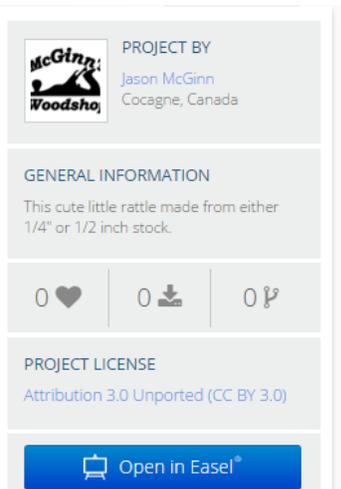
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***FIRST - Watch the video & Read this document entirely***

[https://www.youtube.com/watch?v=7A4FKnLJ\\_D4](https://www.youtube.com/watch?v=7A4FKnLJ_D4)

## ***Setting up in Easel***

In order to setup the default cut layout, simply click the “Open in Easel” on the Inventables project page



**Alternatively, you can set the wheels to ZERO depth and move the car parts to cut. After the car parts are cut, they can be set to ZERO depth and the wheels be set back to 0.5” to be cut on a second piece of material.**

## ***Cut out the parts***

***If you used tabs to cut your parts, saw these off and sand smooth.***

***If the re-saw method will be used, please follow demonstration on video at 4min 50sec***

## ***Cut Dowels and Sand***

***Using ½" dowels, cut two 3" sections.***

***Using your drill, put the dowel into the chuck and use the drill to sand the dowel to a slightly loose fit to the wheels and a loose fit to the car holes.***

## ***Assembly and Glue up***

***Using the dowels glue one wheel to each and let set.***

***Put the dowels through one side of the car and lay flat.***

***Run glue around the body and drop in some kernels to fill only one cavity and then take some away.***

***Put the body together and clamp while keeping the dowels in place for alignment.***

***Once the glue up is clamped and good, remove the dowels to avoid them from gluing to the body.***

***Let sit for at least 4 hours***

***Glue remaining wheels onto dowels, cut and sand any remaining dowel***

## ***Sanding and Finishing***

**With 100 grit sandpaper and moving up through to 320, all the edges are worked down and the surface should be completely smooth for a babies touch. The inside isn't too important to sand, but I'd recommend using at least a 150 for better gluing.**