

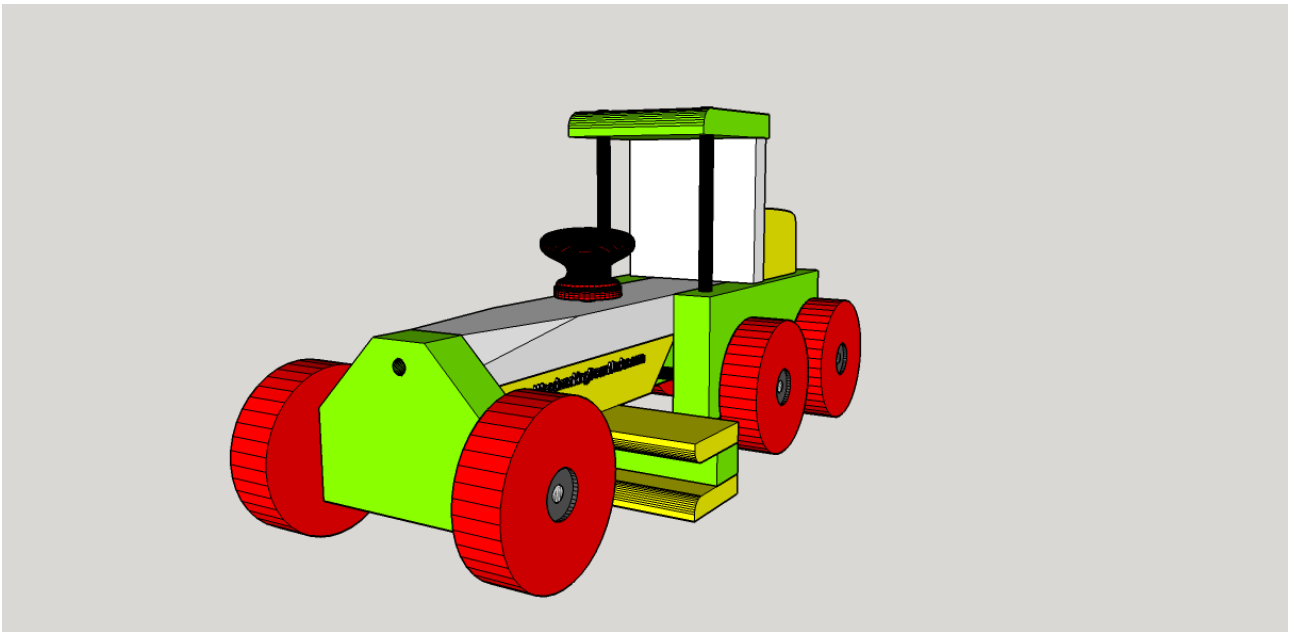


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Large Wooden Toy Road Grader Plans



The steps to make this larger version of the toy road grader is very similar to the smaller version. The only real difference is the size of the parts.

List of materials.

This toy can be made from leftover bits in your scrap box.

Tools you may need.

I used a [bandsaw](#), but only because I have one. Most of the cutting can be done with a hand saw. Anybody who has experience with a table saw will know that the parts are too small to use one safely.

I also have a 12" disc sander, and I find this indispensable for trimming end grain. Of course, a block of sandpaper or a wood file could also be used.

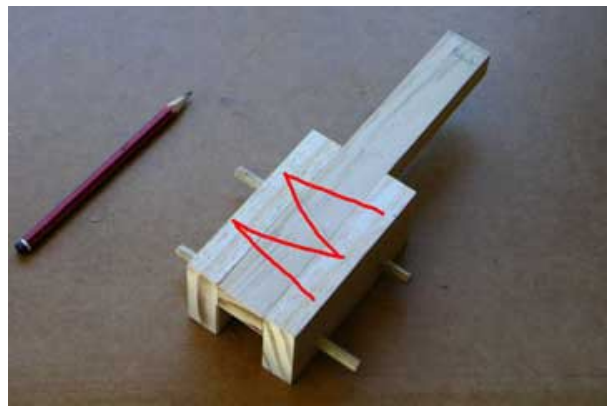
If you are going to make your own wheels, a drill press is an essential item when using a circle cutter.

Most if not all hobby woodworkers and handymen (or handywomen) will have a selection of tools to complete this simple project.

Step by step instructions.

1. The first step is to read through the instructions and study the plans and photos. Note that the plans are shown half size.
2. Transfer the measurements from the plan onto the wood. I like to use a combination square.
3. Cut out the parts with whatever tools you may have access to.
4. Parts A to D are trimmed back to their proper sizes. A twelve inch disc sander is useful for trimming small pieces.
5. Glue the pieces that make up part F and put to one side to set.
6. Clamp parts B together and drill the holes for the axles. At this stage, the holes are drilled for a snug fit. Do this in order to make sure things stay lined up when the parts are glued and clamped together.
7. Dry clamp parts A and B together, keeping the two parts B aligned with the axle dowels. Mark the pieces so that it will be re-assembled in the correct order. It is shown in red in the photo only to highlight the idea, so don't actually mark it in red. Apply the glue and put it to one side to set.

It is important that the axle dowels are left in place until the glue sets to minimise creep under clamping pressure. Once the glue has set, re-drill the holes to allow the axles to spin freely.



Step 7

8. The blade of the grader, part C, is made from a piece of skirting board cut to a width of 30mm. It may also be made from a piece of timber that is 9mm thick, just chamfer one edge to the profile shown in the drawing.



9. Cut and trim part D to size, and drill the axle hole using a drill press or drill guide. Use the 6.5mm drill bit to allow the axle to spin freely.



10. Drill the holes for the roof of the cab by placing it on the body as shown in the photo.



Step 10

11. The photo shows how to fix the dowels on place by measuring the height the dowels are set so that they sit slightly above the roof. This is an idea borrowed from the Craftsman furniture movement.



Step 11

12. Trim part F to size and fix in place.
13. **Final assembly.**
Glue all the parts together, apply the wood screw to the front wheel assembly, allowing it to swivel. Round off the sharp edges and you are ready to put the grader to some serious earth moving work.

Conclusion.

I certainly hope you this project. Use [this form](#) to contact me if you would like to have a photo on the [gallery](#) page.

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