



Wood Toy Steam Roller Buiding Guide



Introduction

An essential part of road construction, the steam roller gets its name from the original machine that was actually powered by steam. The modern version looks quite different, and indeed it has a different name, but it has nothing of the romance of steam, at least as far as making toys is concerned.

Somehow the very shape of the steam roller describes it's function: this is a machine that means business, and it will serve you best that you keep out of the way.

Complementing the road grader, this toy steam roller is very simple to make.

List of materials.

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

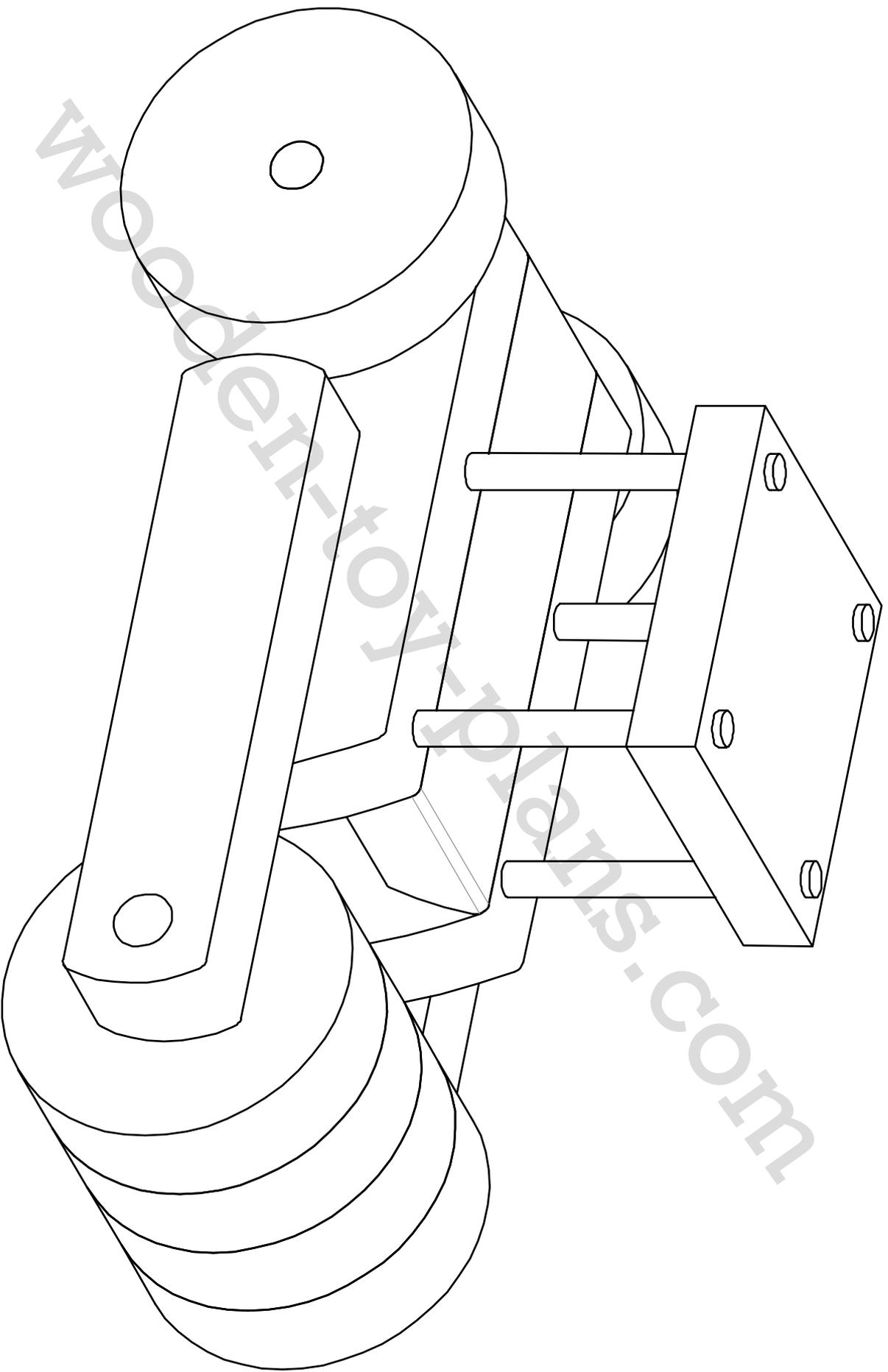
Tools you may need.

I used a bandsaw, but only because I have one. Most of the cutting can be 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.

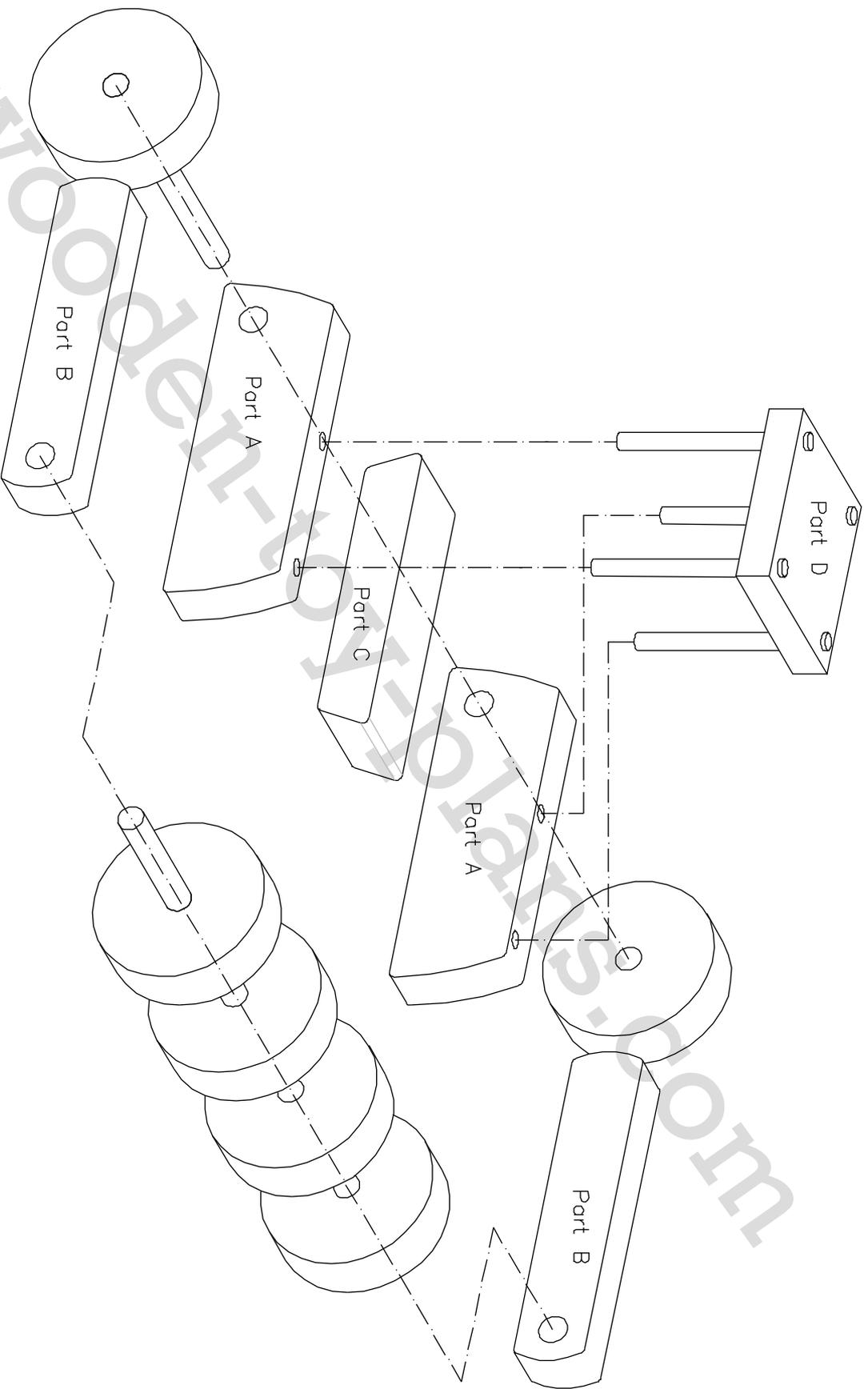
If you are going to make your own wheels, a drill press is an essential item when using a circle cutter.

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



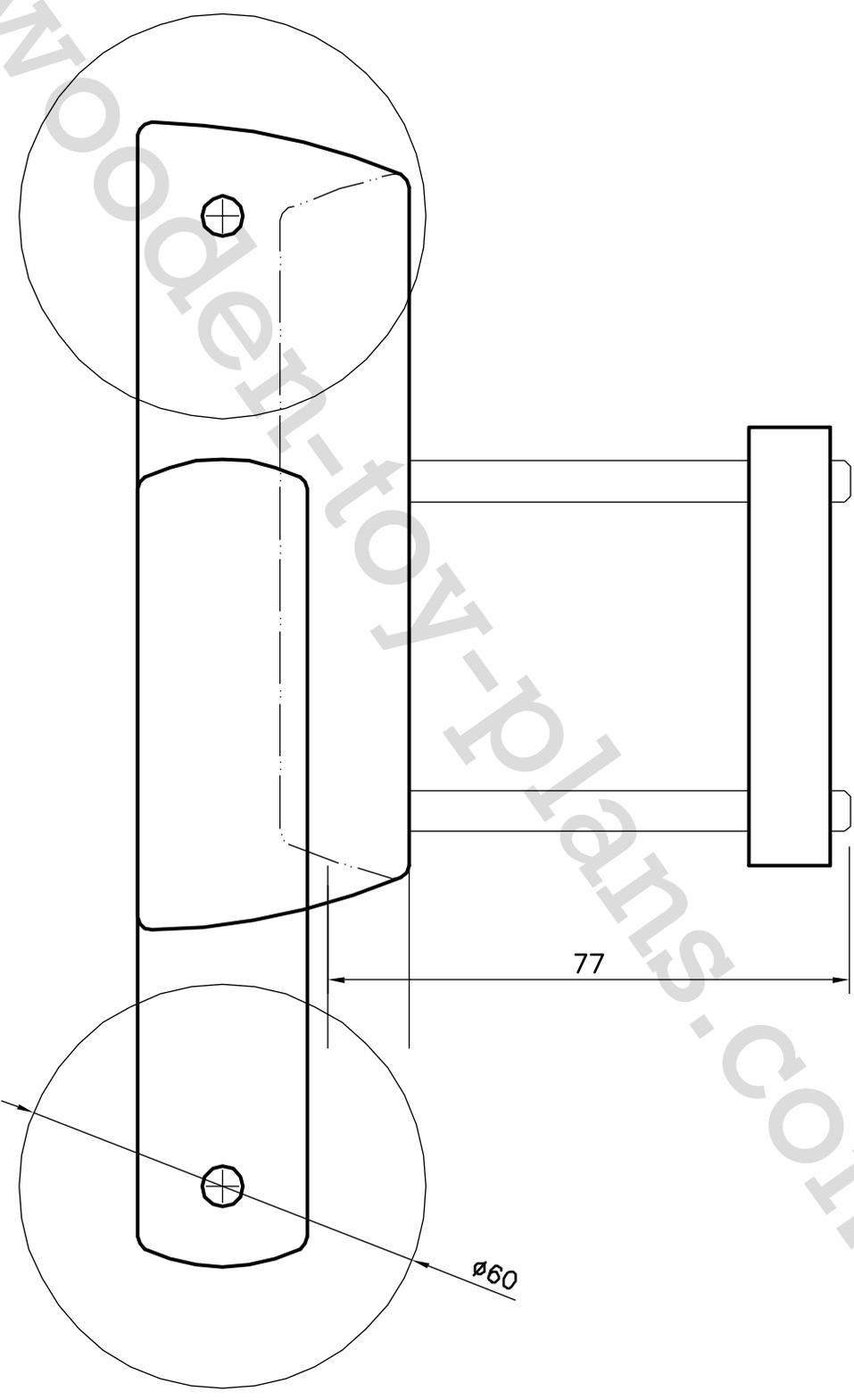
Isometric View

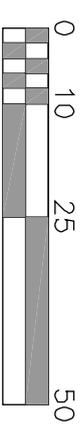
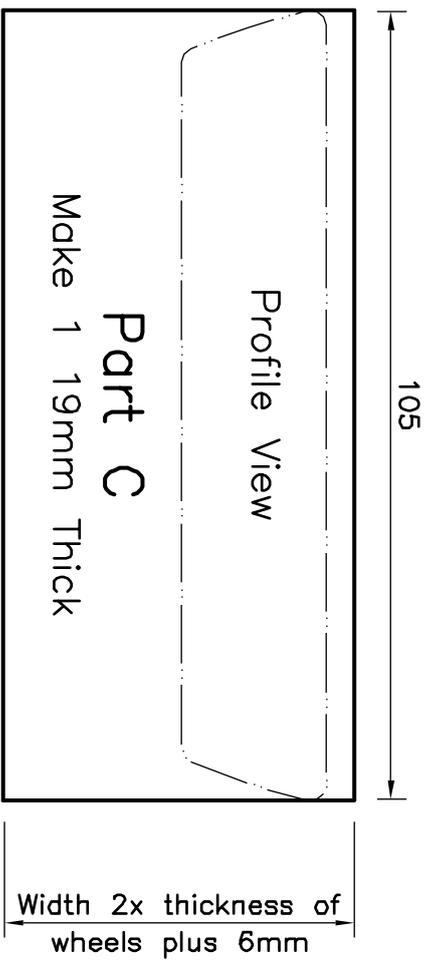
Toy Steam Roller Mk1



Exploded View

Toy Steam Roller MK1



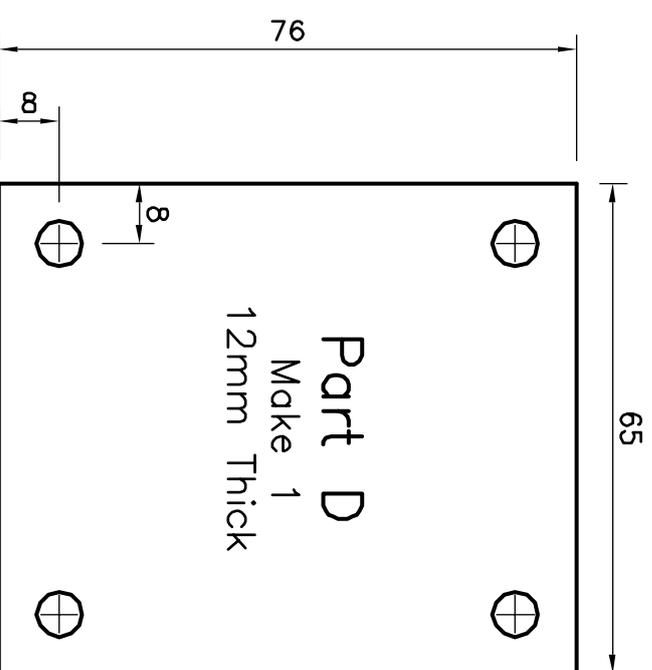
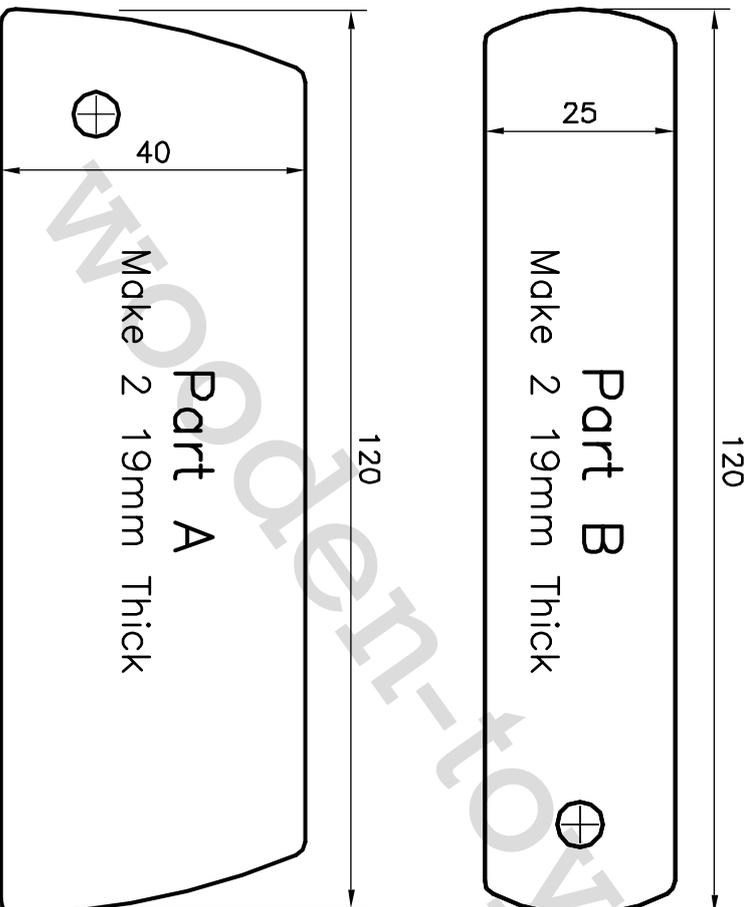


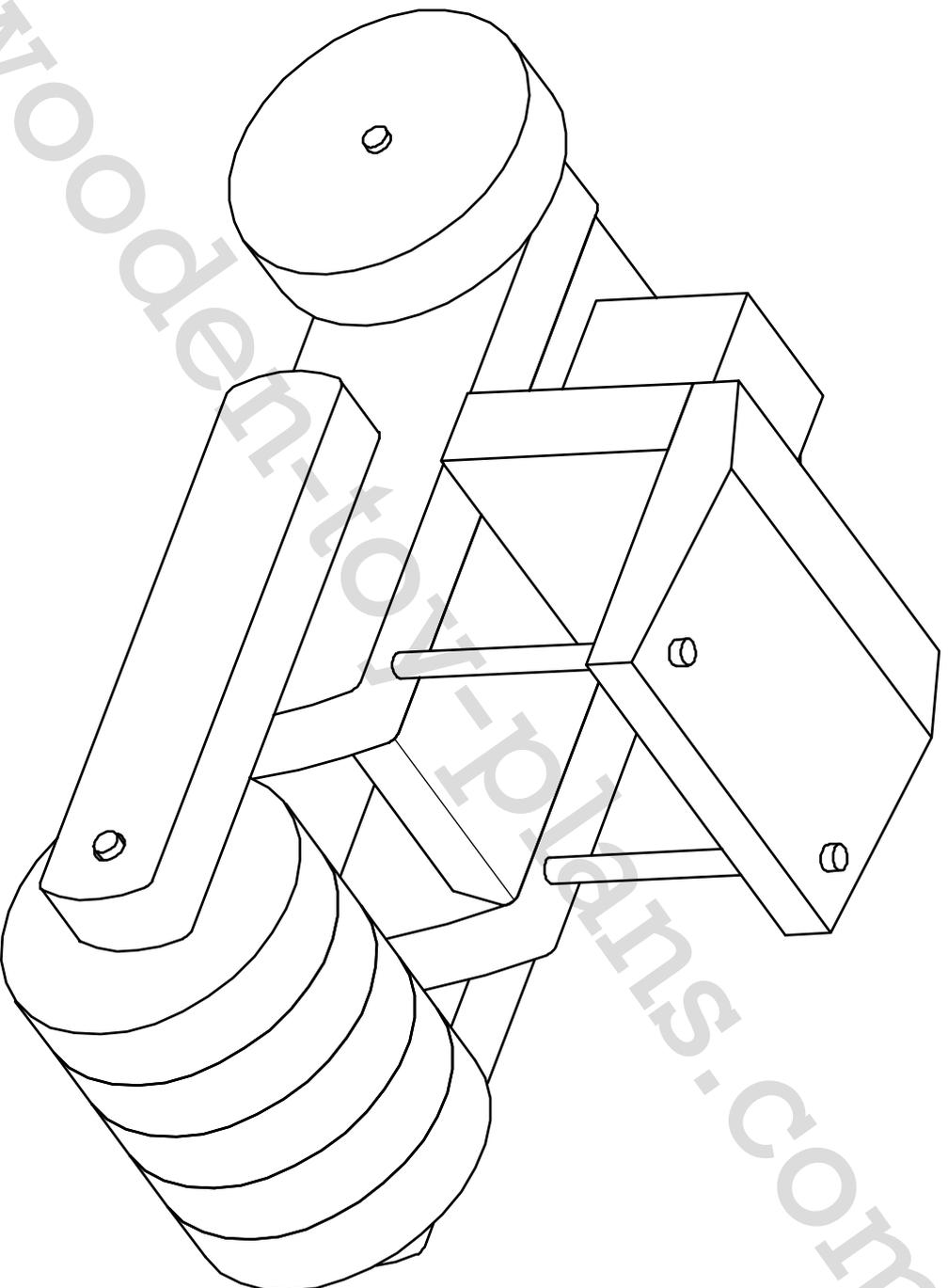
Notes

Parts are shown full size.

Make 6 wheels 60mm Diameter, 19mm thick.

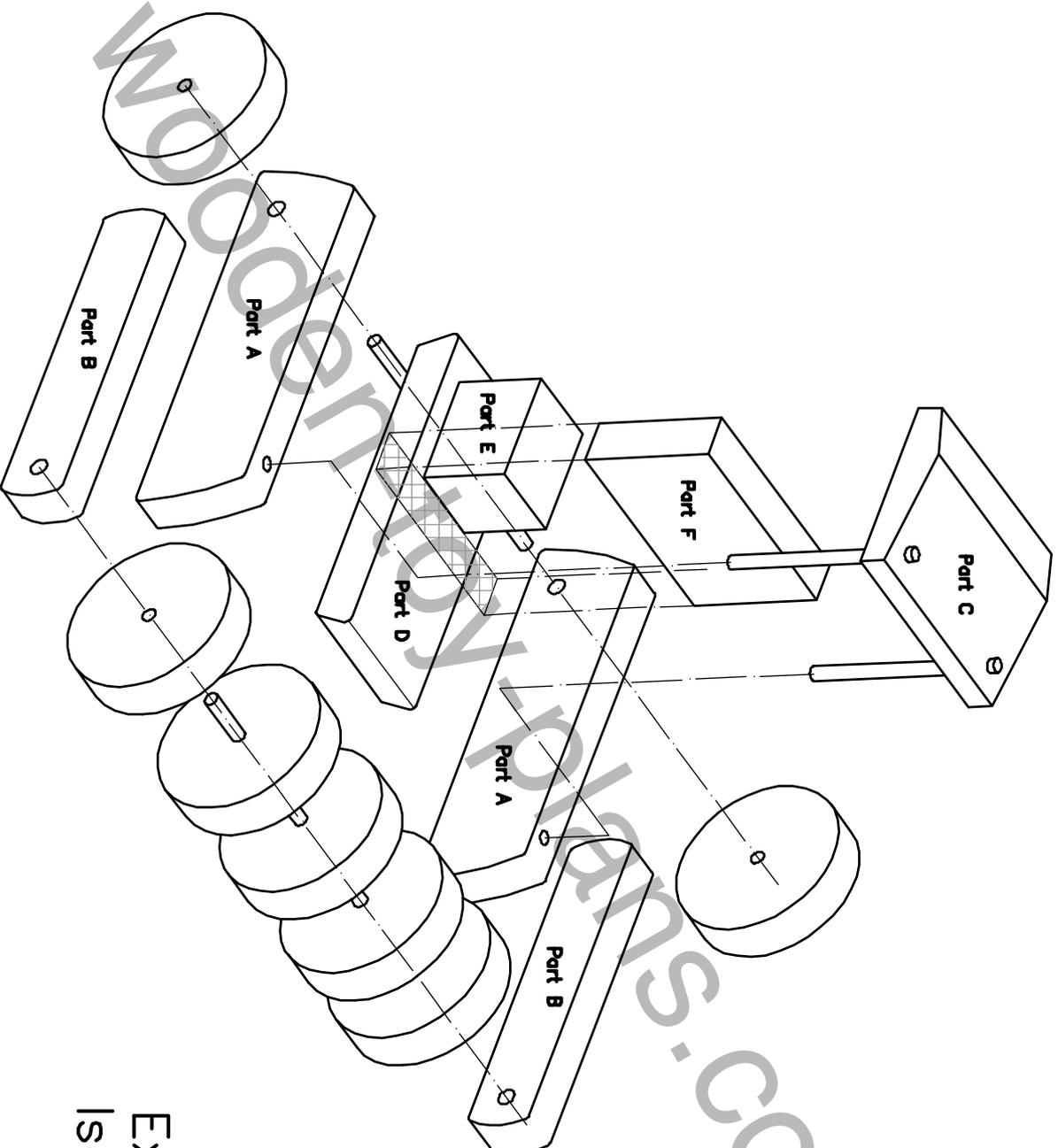
Cut 4 lengths of 6mm dowel 80mm long, and a set of 2 axles 125mm long.





Isometric View

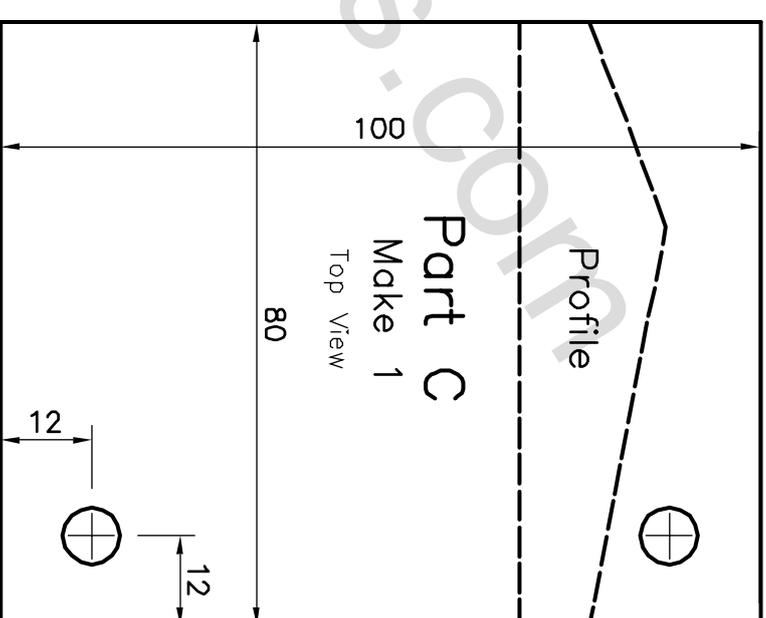
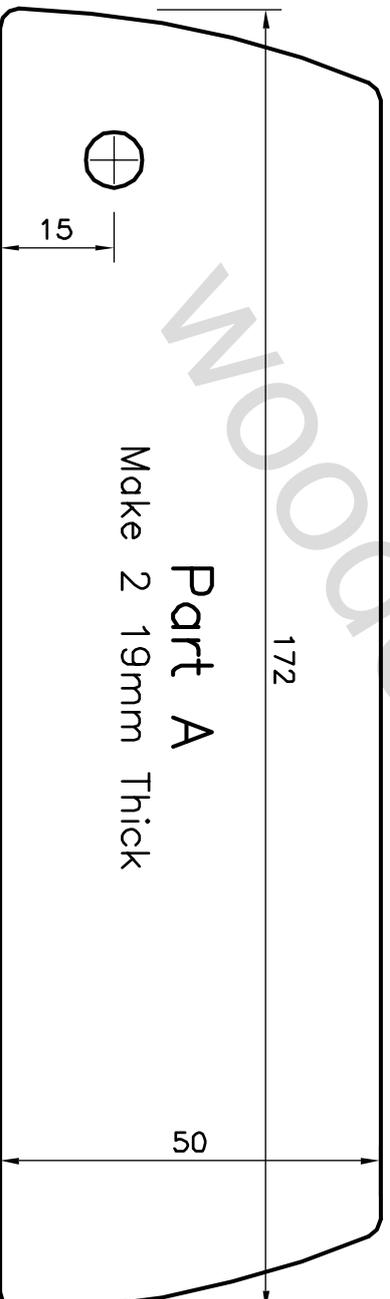
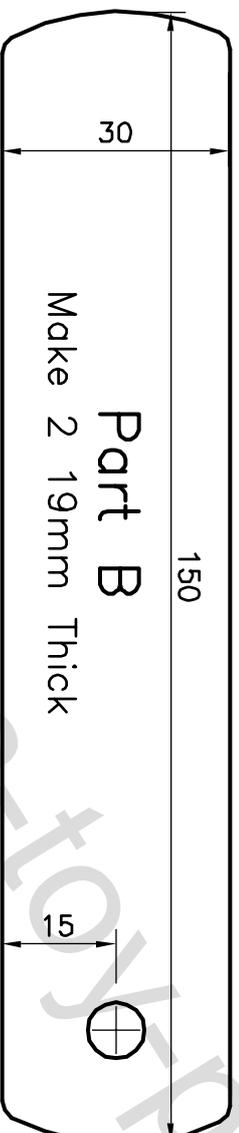
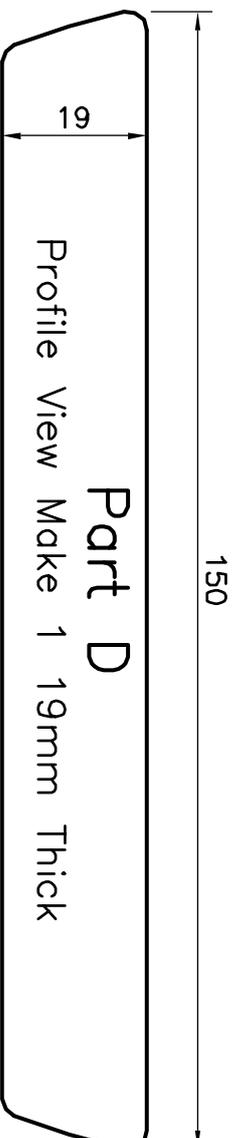
Steam Roller Mk2



Exploded
Isometric
View

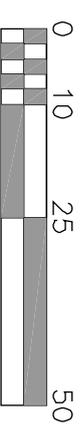
Steam Roller Mk2

- Part D Chassis 150 long x 19 thick. Width to suit
- Part E Engine 50 long x 40 wide x 38 thick.
- Part F Cab 100 long x 60 wide x 19 thick.



Notes

Parts are shown full size.
Make 7 wheels 75mm Diameter, 19mm thick.



Parts

Steam Roller Mk2

Step by step instructions.

Preparation

The first step is to read through the instructions and study the plans and photos.

Using a soft pencil and a ruler, mark out the component parts as shown in the drawing.

Cut out the parts using an electric jigsaw, a tenon saw or a scroll saw.

Step 1



Step 1

Mark and drill the holes for the axles in pairs. Glue the two sides using the dowel axle to keep the parts aligned.

Step 2

While the glue is setting, make the wheels.

Step 3



Step 3

Mark the holes for the roof, place the roof in position and drill the holes.

Step 4



Step 4

Glue one side arm in first, using one of the rear wheels to ensure there is enough clearance.

Step 5



Step 5

Glue the other side arm, using the axle to keep the alignment. The wheels are included to ensure clearance.

Step 6



Step 6

The roof is fixed in place, and the toy is ready to paint in colours of your choice.

Finishing

There are many ways to apply a finish to a wooden toy. I have used food colouring on pine to good effect.

Link to [child safe paints](#) for finding a non toxic paint that is child safe and zero volatile organic compounds in an over-toxicated world an article on non toxic paint by Deliah Jones.

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