



## 4 Plank Wagon.

Copyright (C) 2019 Wood Valley Works

### Assembly Instructions

32mm Gauge only

All pieces of this kit will benefit from a light sanding with fine grade sand paper to remove any surface texture and the pips left by the breakout tabs.

It's recommended that parts are painted or stained prior to assembly.

### PLEASE NOTE

This kit is made from 3mm laser cut MDF, any type of wood adhesive such as EVO-STIK resin W is suitable, glues of the SUPER-GLUE type are not suitable and should be avoided.

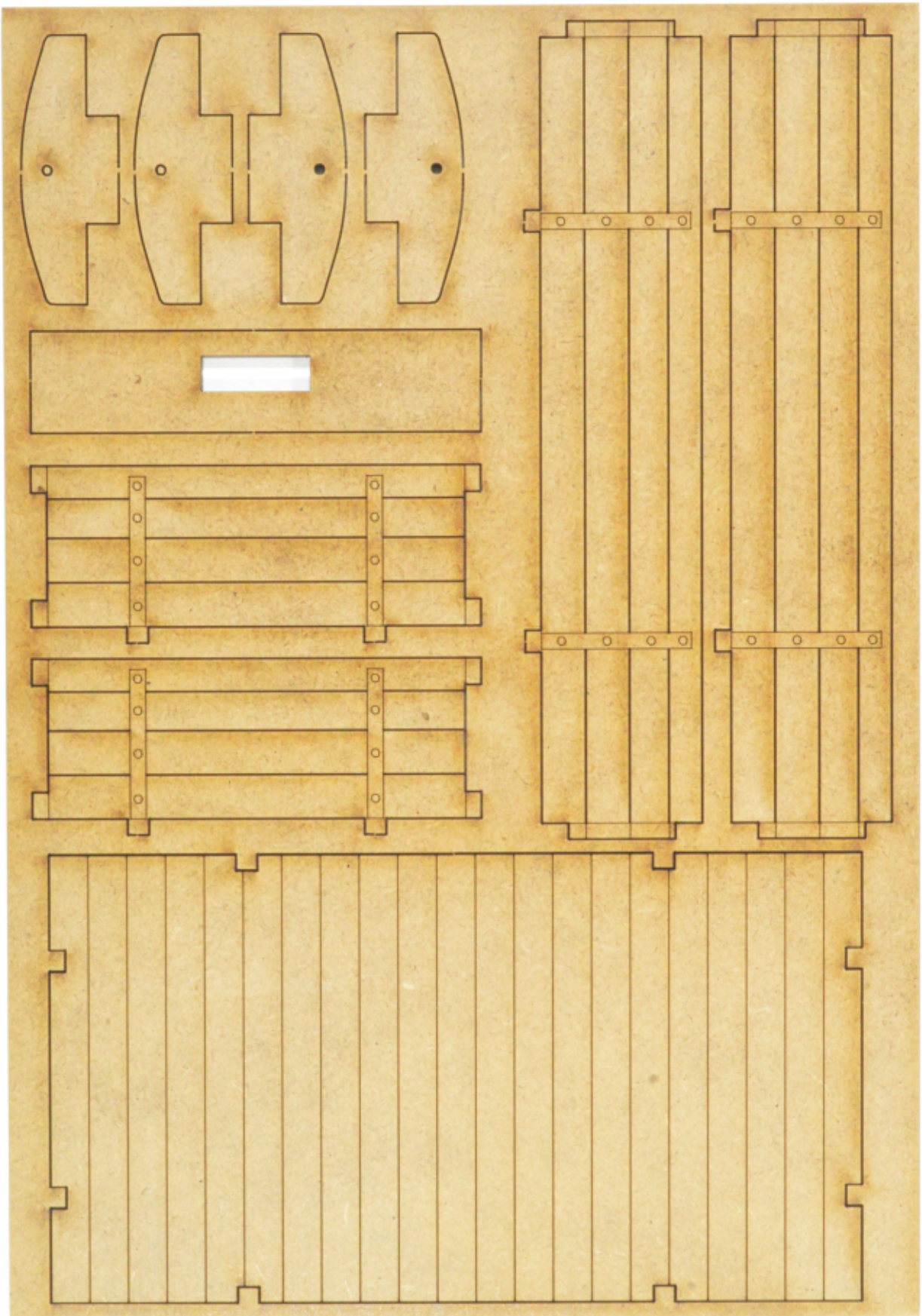
Cut the breakout tabs with a sharp modeling knife rather than snapping the parts out as this may cause damage to the wood.

This kit is supplied with wheels, axles, bearings, coupling hooks and detailing parts.

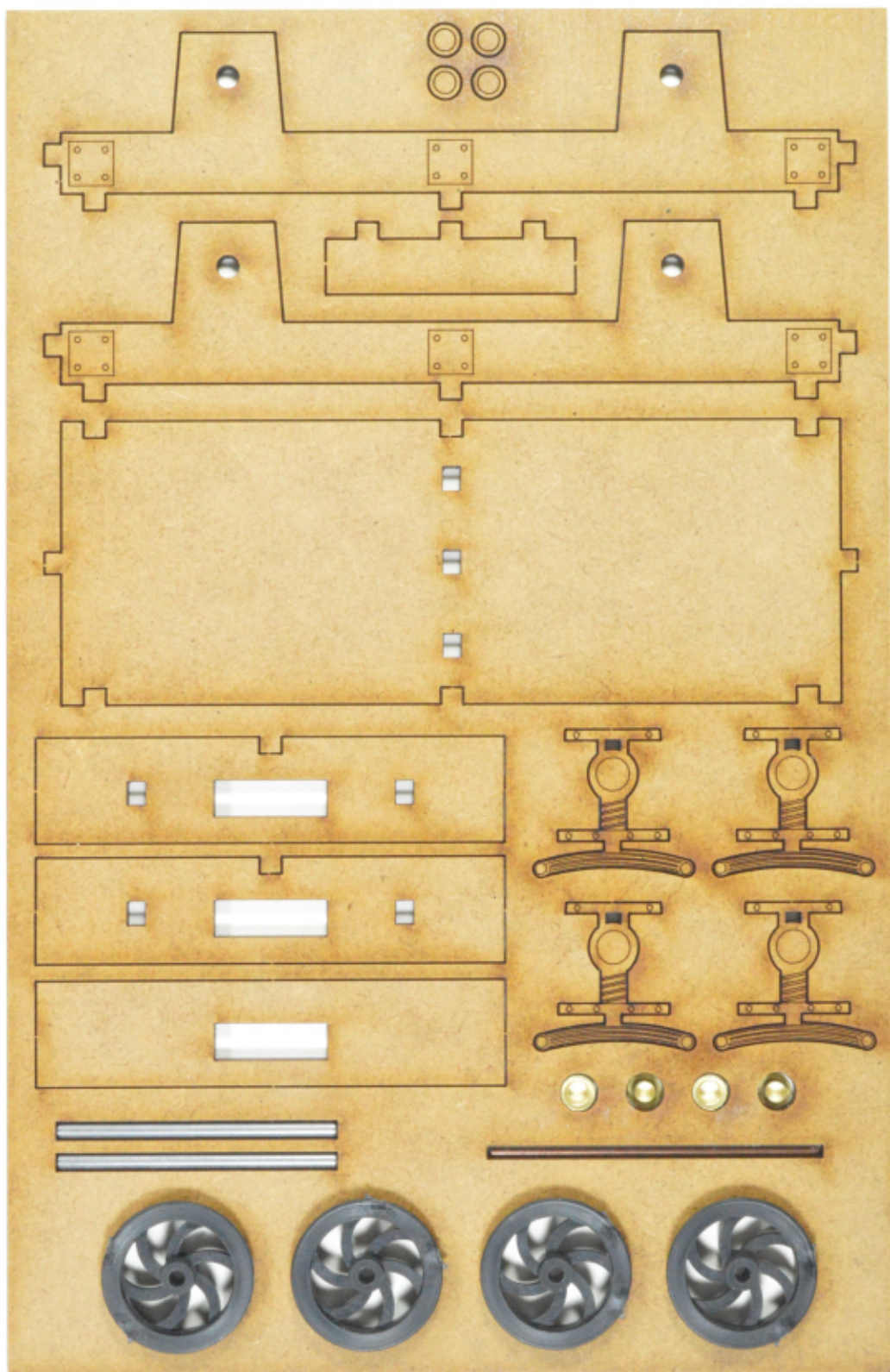
Before you start assembly Please read through these instructions carefully and familiarize yourself with the pictures and method of assembly.

It will be necessary to have a few tools to hand such as clamps, a sharp modelers knife, snipe nose pliers and elastic bands.

Most parts can be dry assembled prior to gluing so you can familiarize yourself as to how the parts fit together.

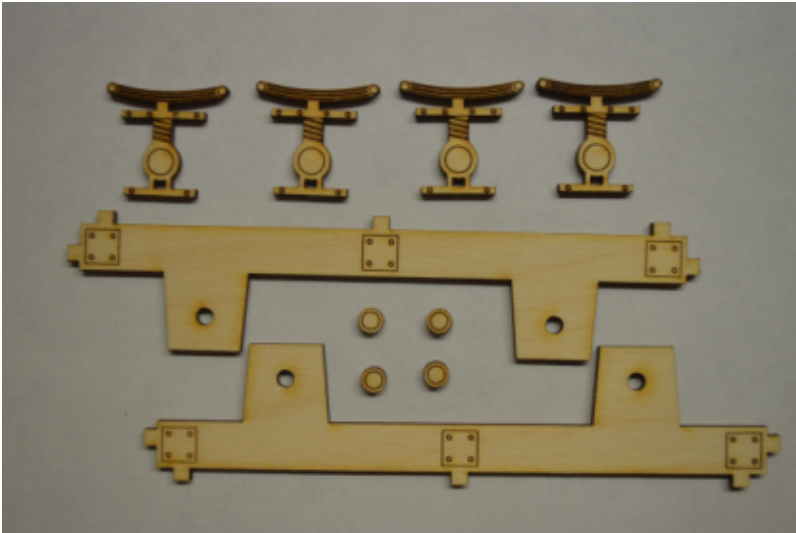






Assemble the wheels onto the axels with a flange to flange spacing of 28mm, ensuring that the flanges are inwards.





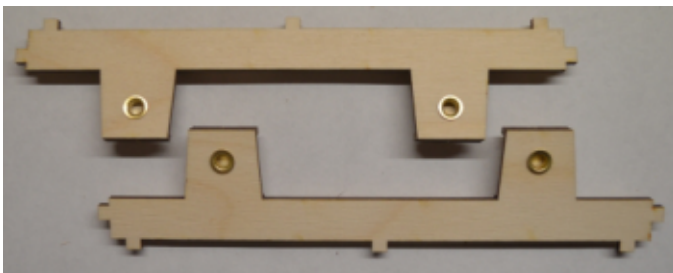
Locate the parts which make up the sole bars with the axle box detailing.

These consist of 2 sole bars 4 axle boxes and 4 hub caps.

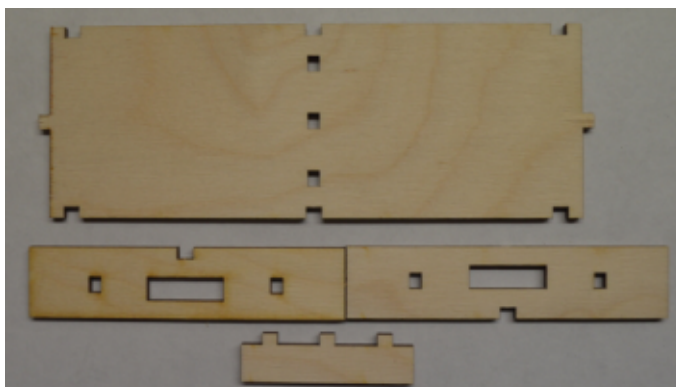


Using a minimal ammount of glue assemble the axle boxes and hub caps onto the sole bars.

Locate the 4 brass bearings.



Press the bearings into the holes on the inner side of the sole bars untill the flange is flush with the sole bar.



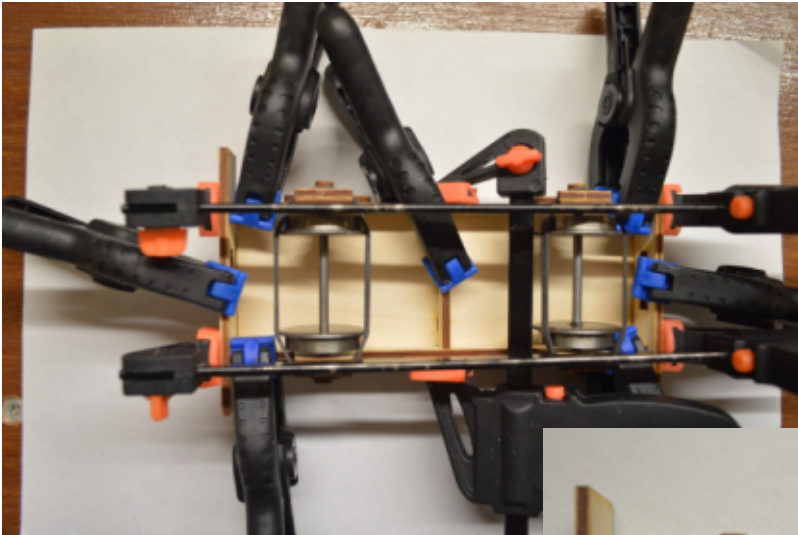
Locate the 4 pieces which along with the sole bar assembly make up the chassis. These are the 2 inner buffer beams, the chassis spacer and the chassis top piece.



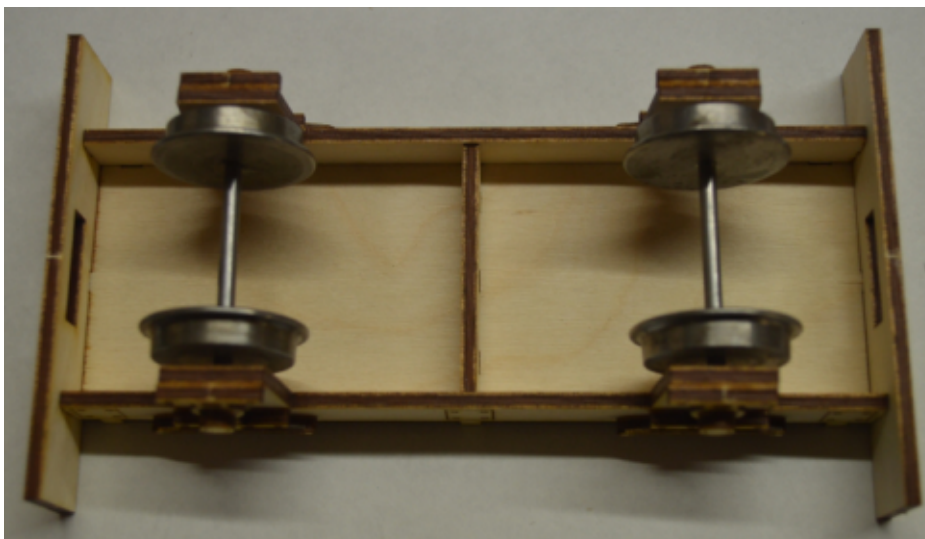
Glue the chassis spacer to the chassis top piece making sure it is upright, then glue one of the sole bars to the chassis top piece making sure that the bearings are to the inside and the sole bar is correctly located in its tabs and upright.

There is no easy way to do the next bit. Glue the other sole bar to the chassis top piece making sure that the bearings are to the inside and the sole bar is correctly located in its tabs and upright and that the 2 sets of wheels are properly located into the bearings.

Glue the 2 inner buffer beams to the assembly making sure all the tabs are located properly.

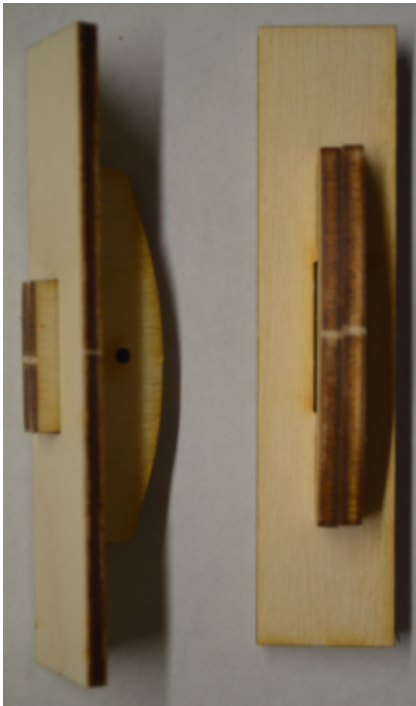


Use clamps to hold the parts together whilst the glue dries and elastic bands around the axle boxes and across the wheels to keep the sole bars from spreading at those points.

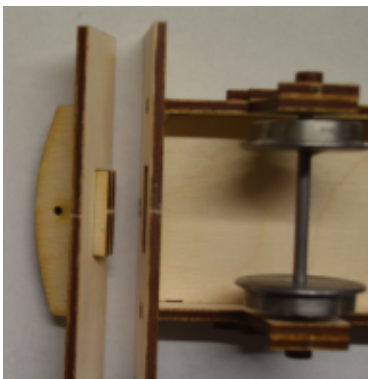


The completed chassis.

Locate the 6 parts which make up the buffers and outer buffer beams.

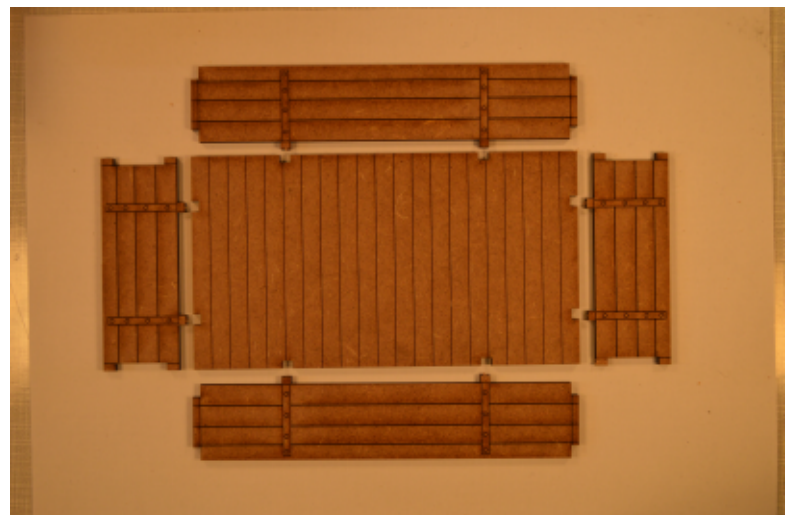


Glue the 2 parts of each buffer together than glue them into the outer buffer beam.



Then glue the outer buffer beam assembly to the inner buffer beam making sure all the edges line up properly.

Locate the 5 parts that make up the bed and sides of the wagon body.

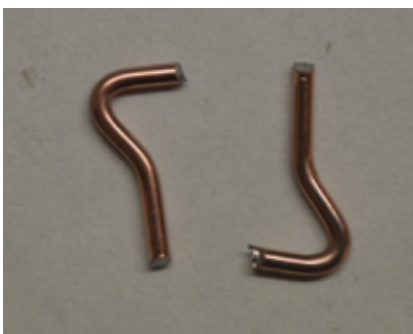


Assemble as shown, ensuring that the engraved lines on the bed are facing upwards and the engraved detail on the sides is facing outwards.



the completed body onto the chassis ensuring that it is properly aligned with the buffer beams.

Fit the internal and external detailing as shown, superglue is suitable for fitting the detailing peices.



Bend 2 hooks from the wire supplied and glue them into the holes in the buffers.

