



# Wood Valley Works

[www.woodvalleyworks.co.uk](http://www.woodvalleyworks.co.uk)

## Sanford

### Penrhyn Railway Brake Van

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#### Assembly Instructions Part 3

32mm Gauge only

This is an advanced kit with many small and delicate 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.

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 may be easier if some parts are painted or stained prior to assembly.

### PLEASE NOTE

This kit is made from 3mm, 2mm and 1mm laser cut MDF, any type of wood adhesive such as EVO-STIK resin W is suitable. SUPER-GLUE is probably best for attaching the smaller detailing pieces.

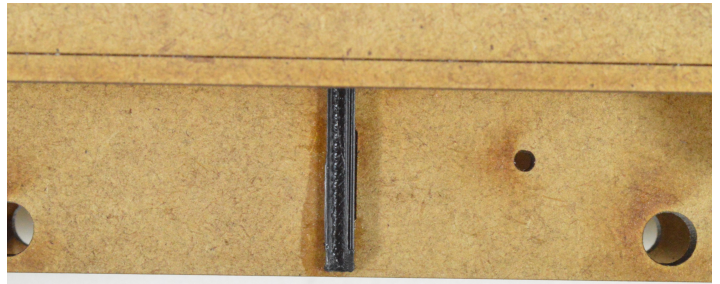
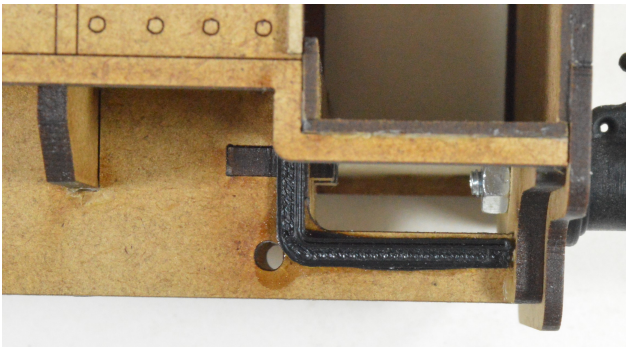
Cut the breakout tabs with a sharp modeling knife rather than snapping the parts out as this may cause damage to the wood.

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

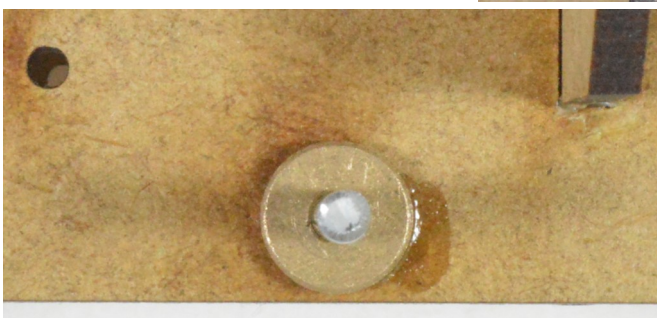
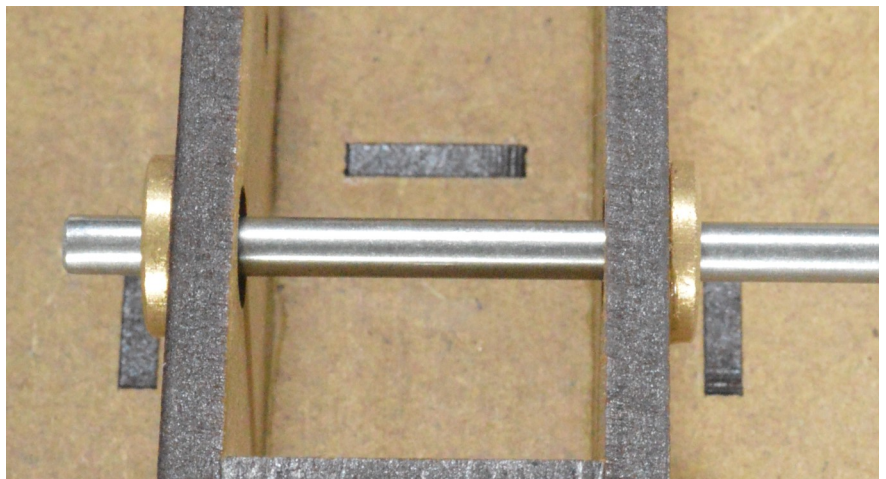
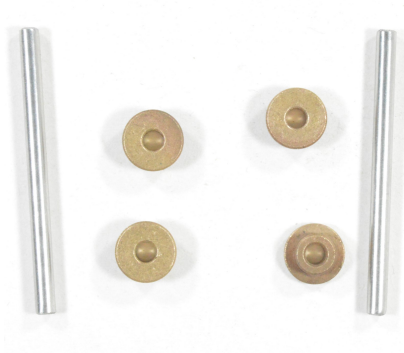
Dummy rivets are also supplied with the kit.



Locate the sprue with the 3D printed detailing parts and gently prize off the 4 frame detailing pieces. These can be removed by carefully sliding the blade of a modeling knife between them and the sprue.



Fit them to the frames as shown ensuring that the vertical piece covers the tab in the frame with the upstand to the rear and the angled end down.



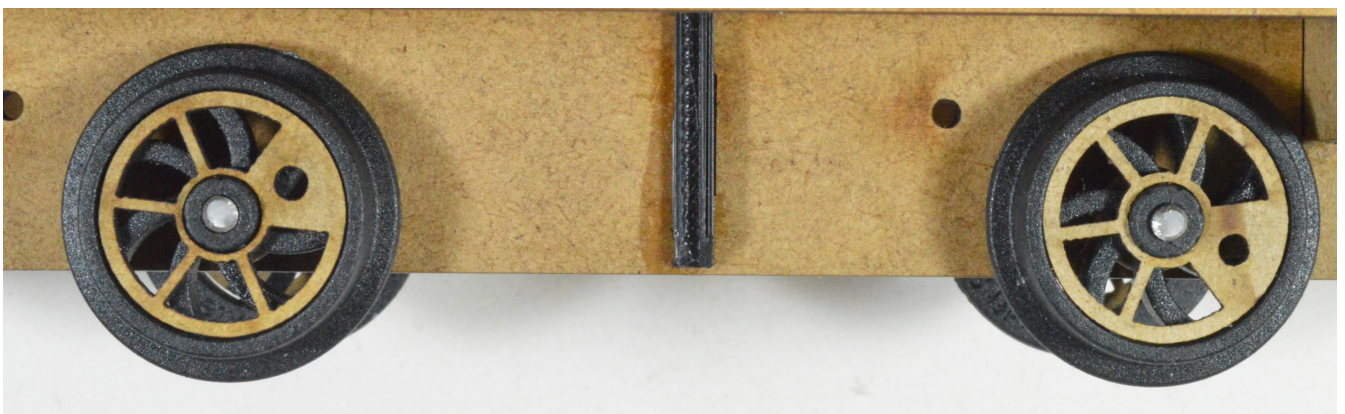
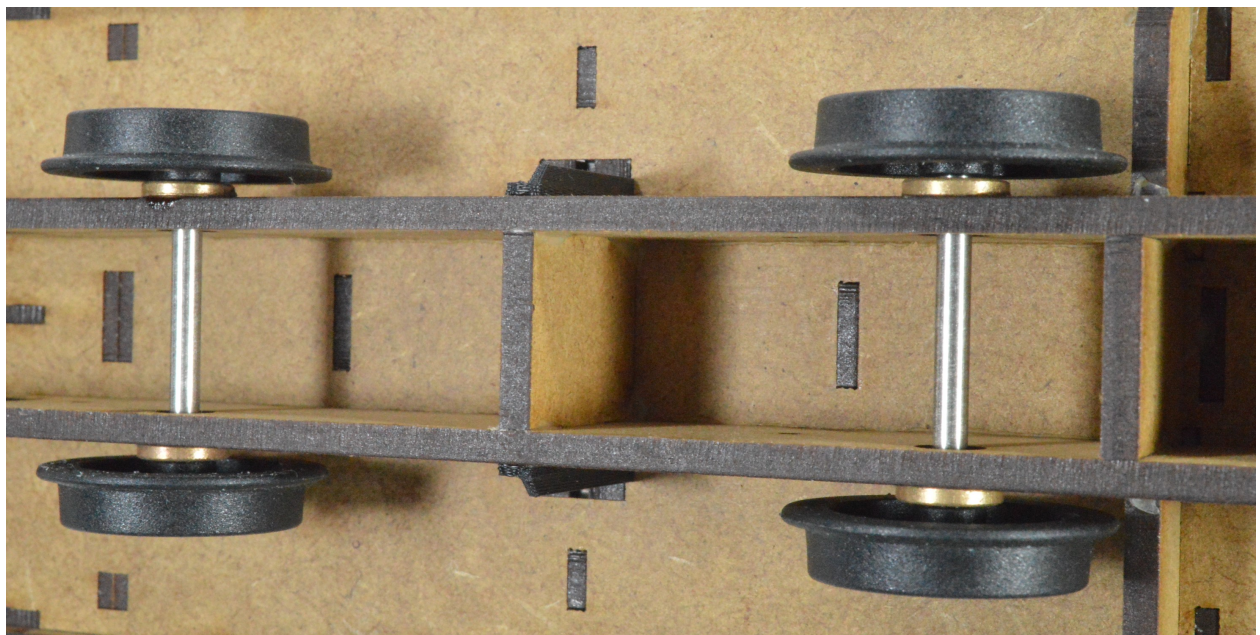
Locate the 2 axles and 4 wheel bearings and fit them as shown ensuring that the flange on the bearing is to the outside of the frames. Make sure that the axles are free to rotate in the bearings before gluing the bearings to the frames.



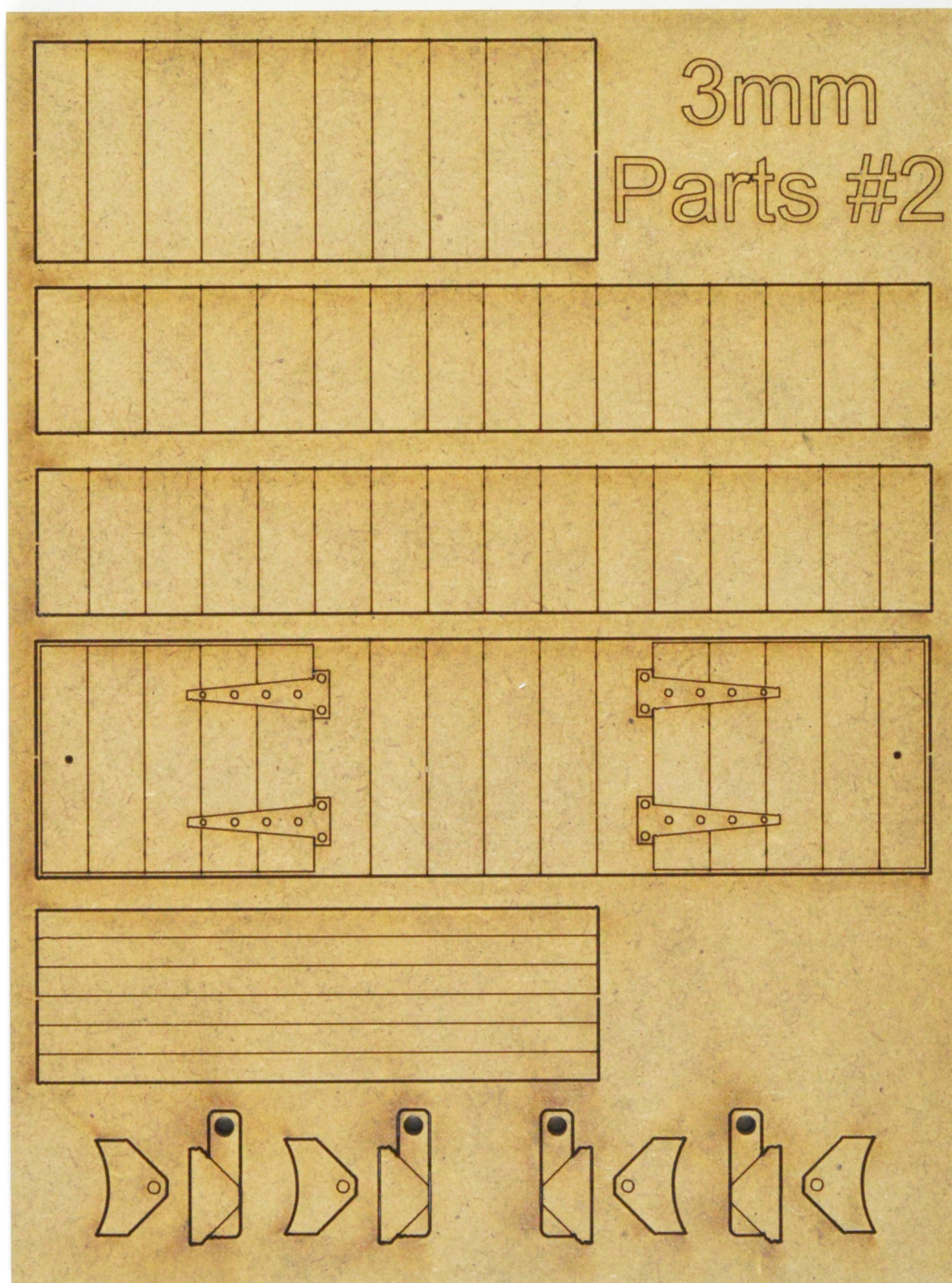


Locate the 4 wheels and 4 wheel inserts and fit them as shown.

Fit the wheels to the axles and set a back to back spacing of 28mm







These are the parts that make up the tank deck, dummy brakes and the guards seat. Please note the guards seat was used in part 2 of the instructions.



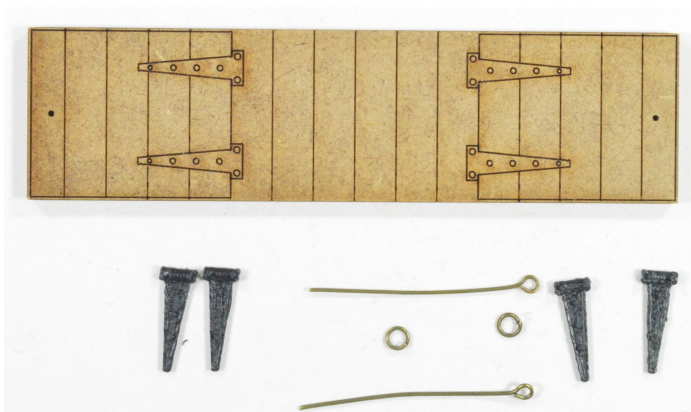
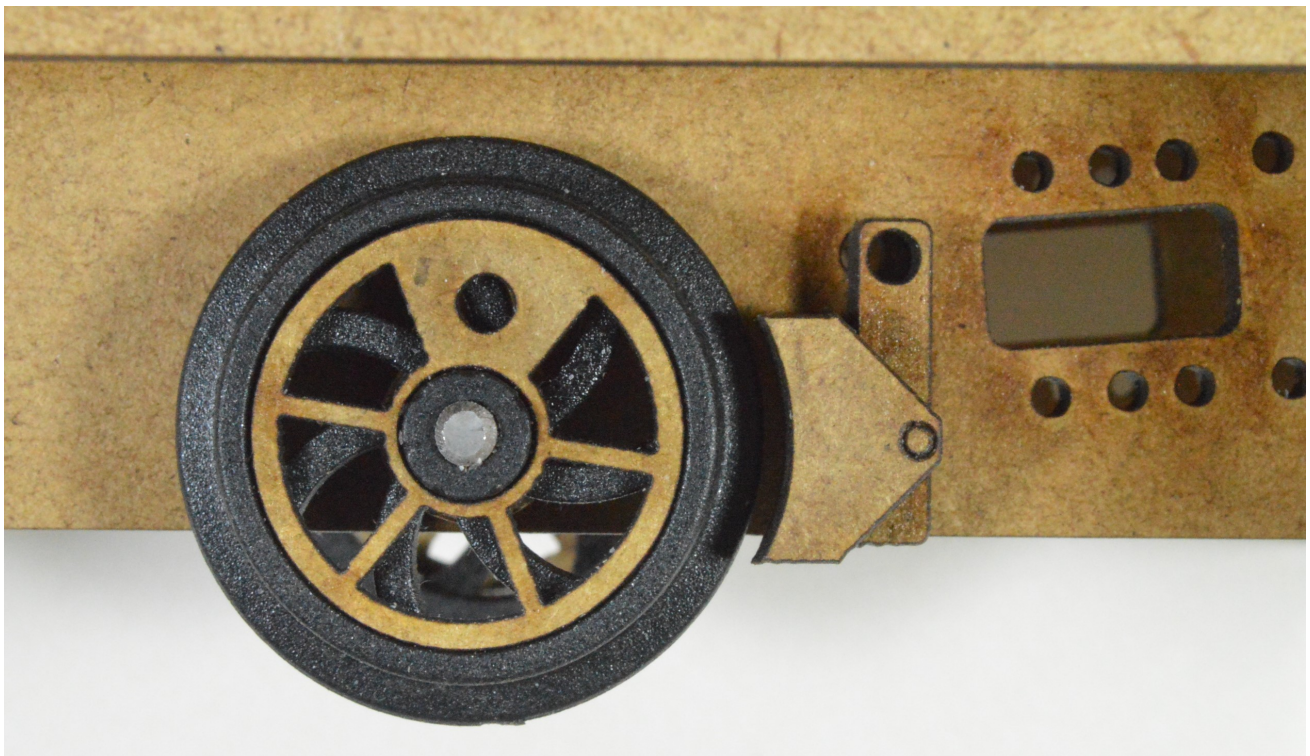
Locate the 8 parts that make up the dummy brakes. Please Note that these parts are handed to fit on both sides of the frames.



Assemble the brakes as shown, ensuring that the engraved detail is upwards and that the brake block lines up with the 2 diagonal lines on the frame.

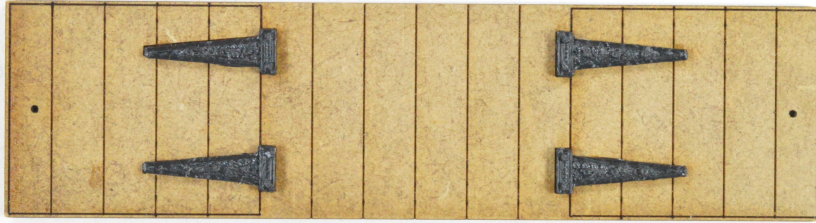


Fit the brakes to the frames forward of the wheels as shown, leave just enough space so that the wheel can be removed if necessary.



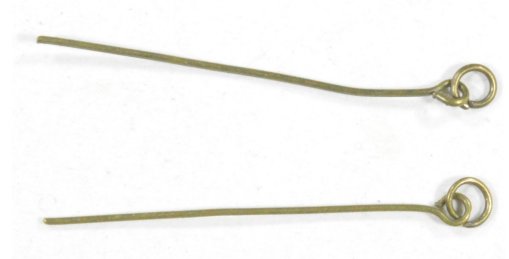
Locate the 9 parts that make up the middle deck piece





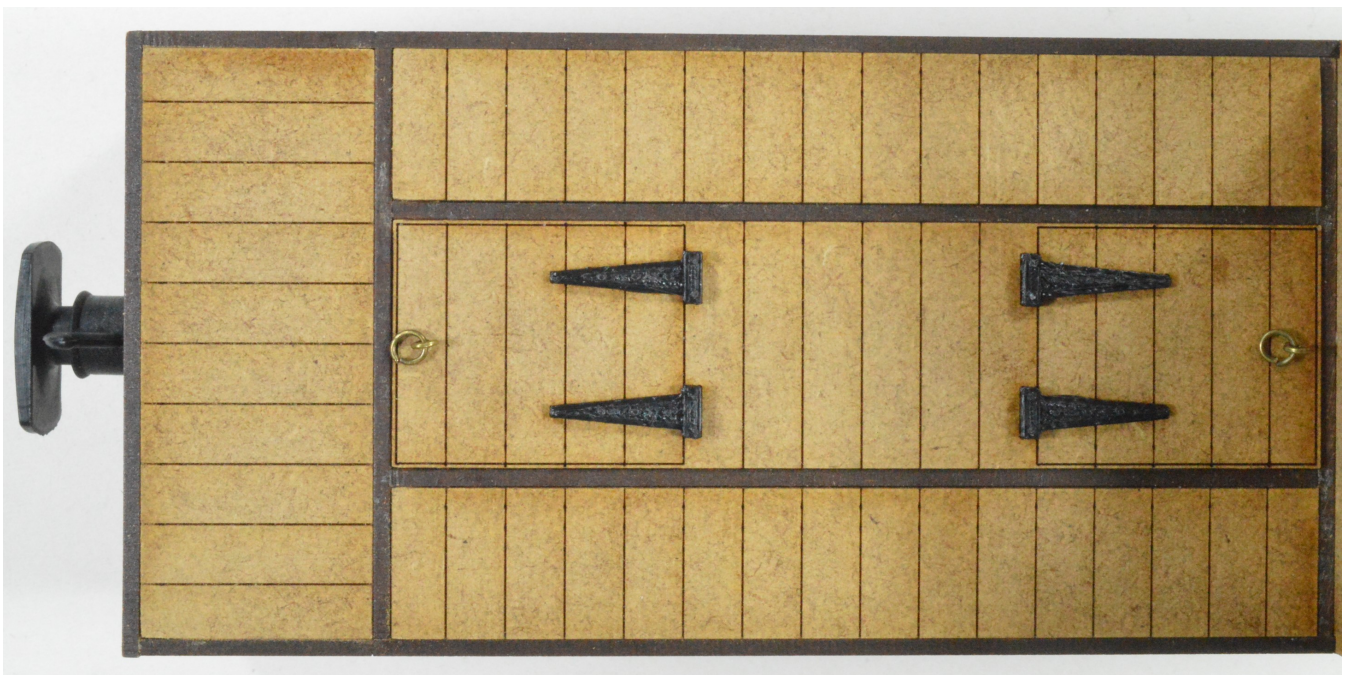
Fit the 4 3D printed parts over the marked positions on the deck piece.

Fit the 2 ring to the 2 eyes and fit them into the 2 holes at the ends of the deck piece as shown.



Fit the 4 deck pieces ensuring that the engraved lines are facing upwards.

Please note: it is probably best to paint the modes before fitting the 4 deck pieces also there is plenty of room under the deck to fit weights if required.





This completes the build of the model.

