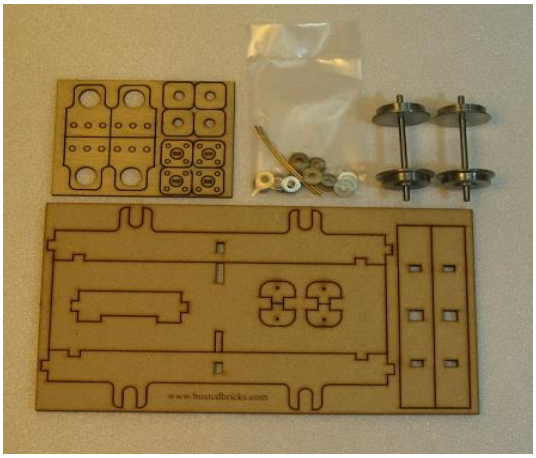
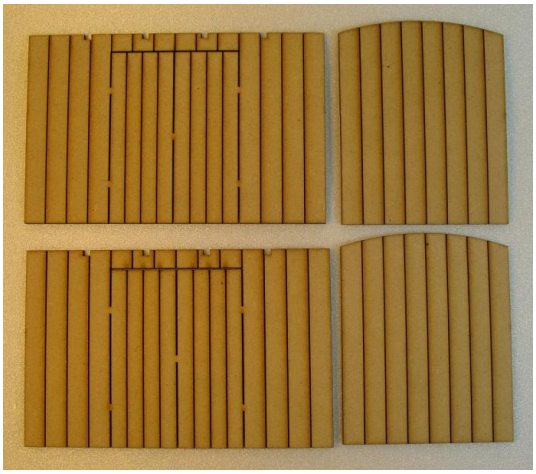
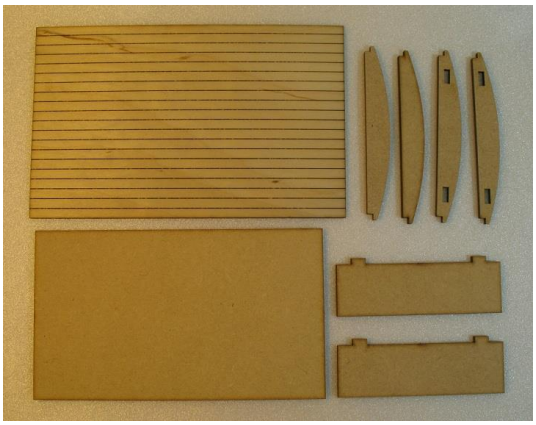
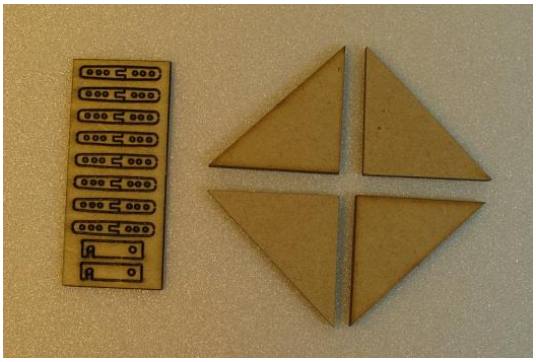
Houstoun Gate Locomotive Works
Goods Van Assembly Instructions – GV1

It is suggested that you read these instructions through before commencing construction.

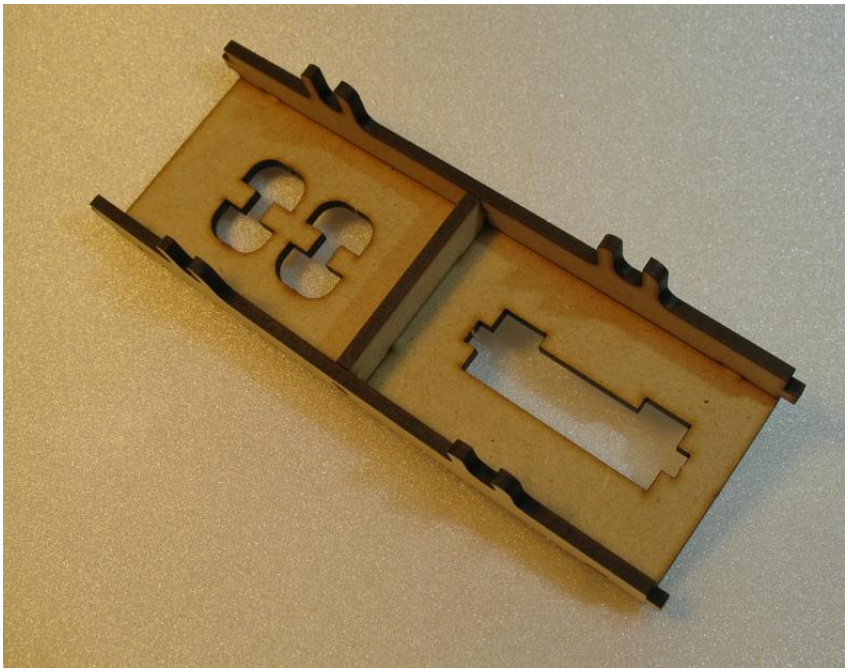
Kit Contents

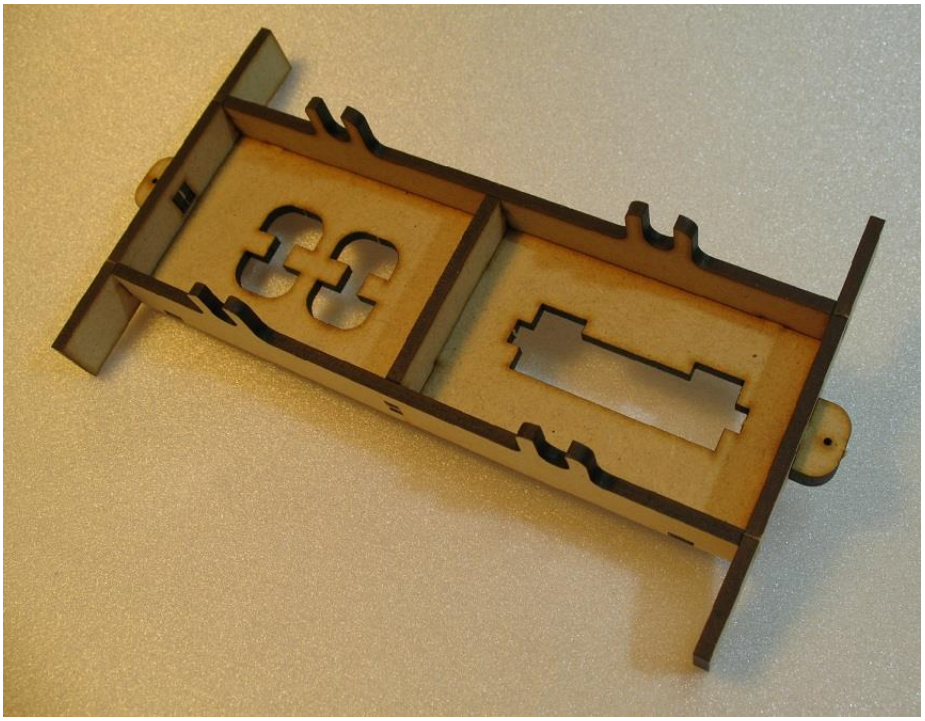
A minimum of tools are needed to assemble this kit. Sandpaper and sanding block plus some clamps, strong rubber bands or weights to hold parts in place while the glue dries.
This kit requires glue and paint to complete. It can be built entirely with PVA (exterior type) or aliphatic resin. My favourite is Titebond III waterproof aliphatic. Excess glue can be wiped away with a damp rag. MDF is not moisture proof and the model should therefore be painted or varnished before use. First apply a sealer/primer. MDF sealer, thinned PVA or grey automotive primer all do the job. The cut edges may need more than one application of primer to seal them.. Automotive spray paint in cans works well and gives a good finish. If brush painting use acrylic or enamel paint.

Carefully separate the parts from their sheets. Wriggling them lightly is normally enough to break the
retaining tab. Sand the retaining tabs away on all parts before beginning assembly.

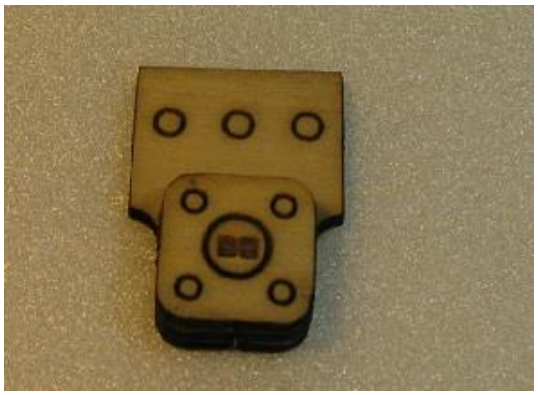
Chassis
Start by glueing the spreader to the subframe base, then glue the sides in place followed by the buffer beams. The slots and tabs ensure parts are properly aligned.



Glue the buffer parts together and glue them into the buffer beams.

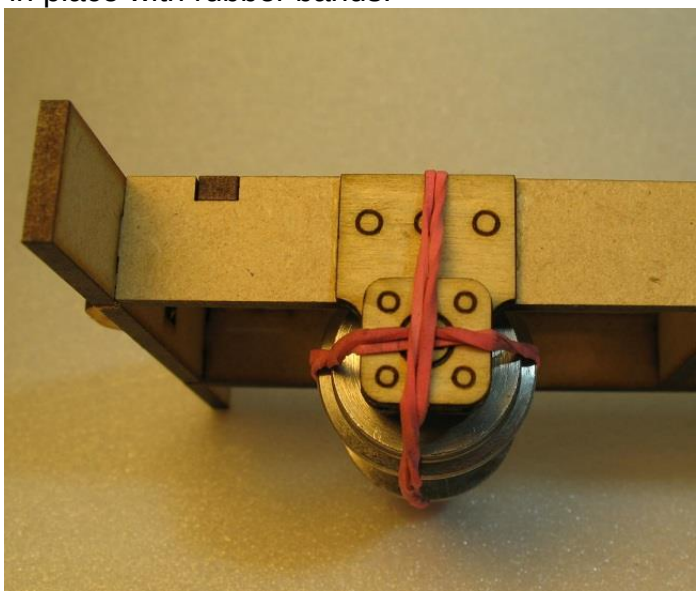


Assemble the axle boxes by layering the three parts for each axle box.

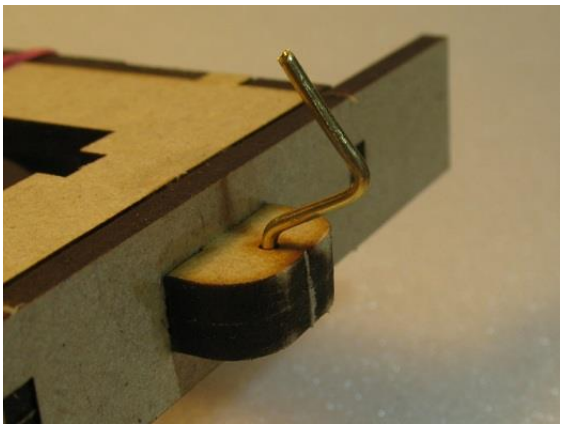


Do a dry fit before glueing the axle boxes in place. Place one to two washers between the wheel and bearing depending on how tight you want the axles to be in the frame. One washer on each side gives a fair amount of sideways play to allow for less than perfect track.

Glue the axle boxes in place. Make sure you don't get glue into the bearings. Align with the top of the chassis and hold in place with rubber bands.

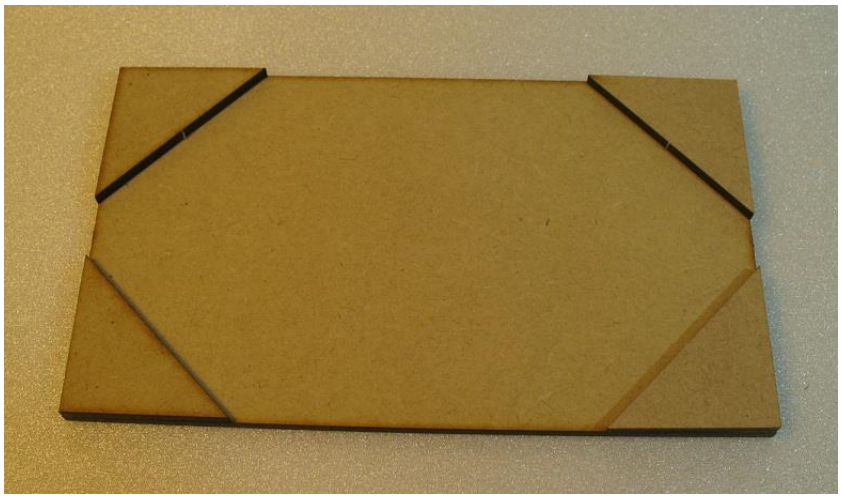


Bend the bras wire to a hook shape and insert it into the hole in the buffer. This completes the chassis assembly

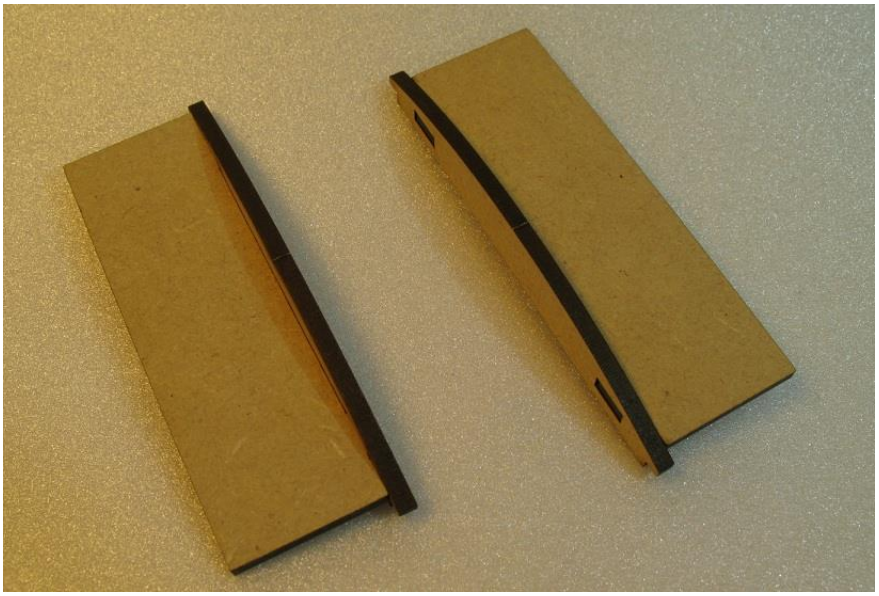


Body

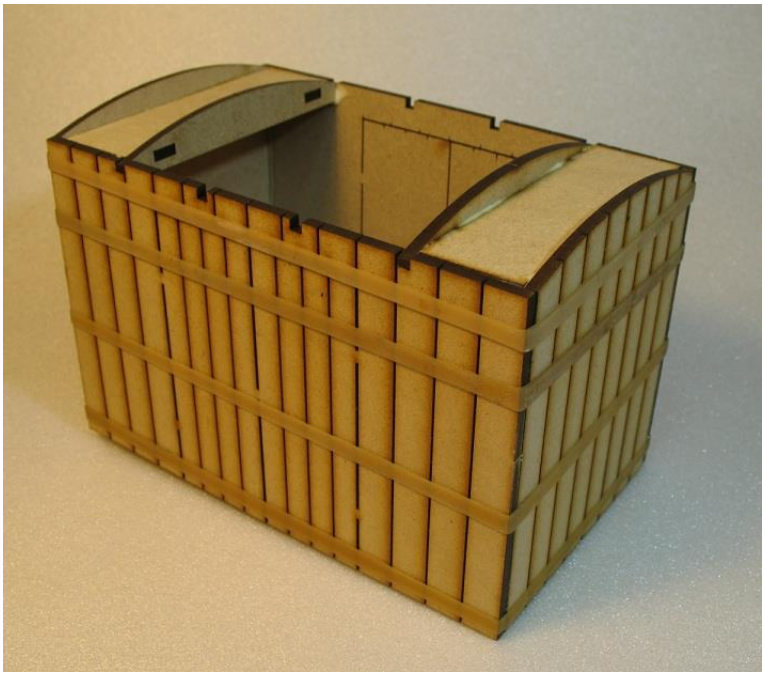
Start by glueing the corner gussets onto the floor. Make sure they align properly with the edges of the floor. If you find that they have not been aligned properly and protrude a bit then sand them so they are flush with the floor edges.



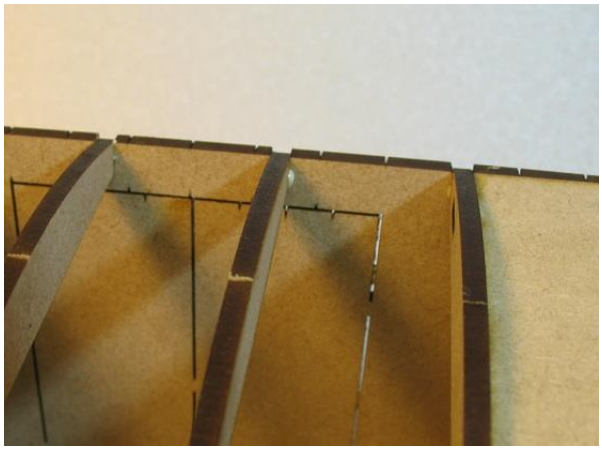
Glue the supports onto the roof arches.



Once the glue is dry you can assemble the rest of the goods wagon body in one go. Apply glue to all surfaces that are to be joined. Assemble and use rubber bands to hold the parts together. Make sure parts are aligned and then leave it alone while the glue sets.



Glue the remaining two roof arches in place.

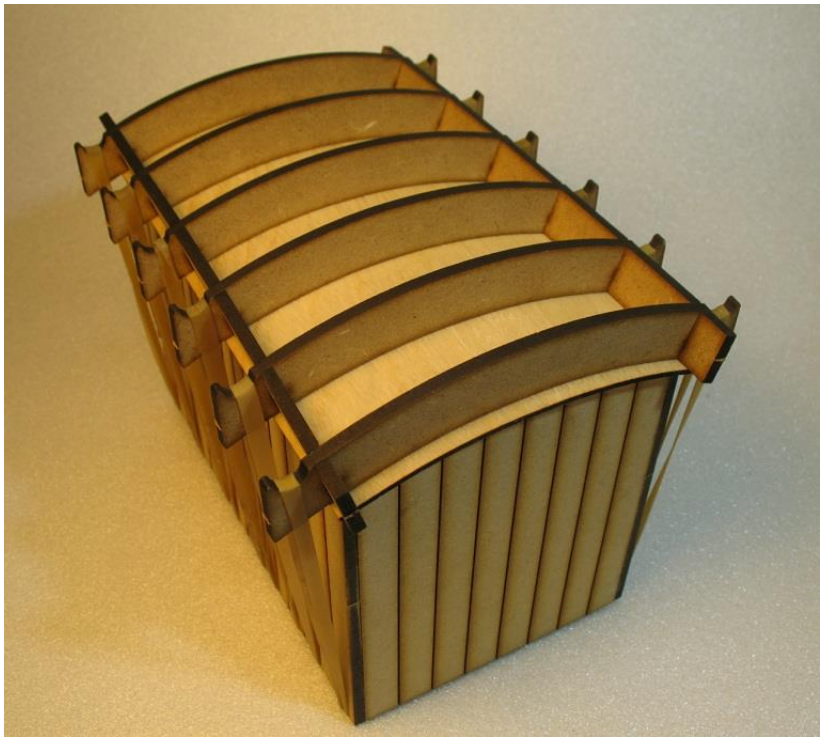


Chamfer the edge of the wagon sides so they match the contour of the roof arches.

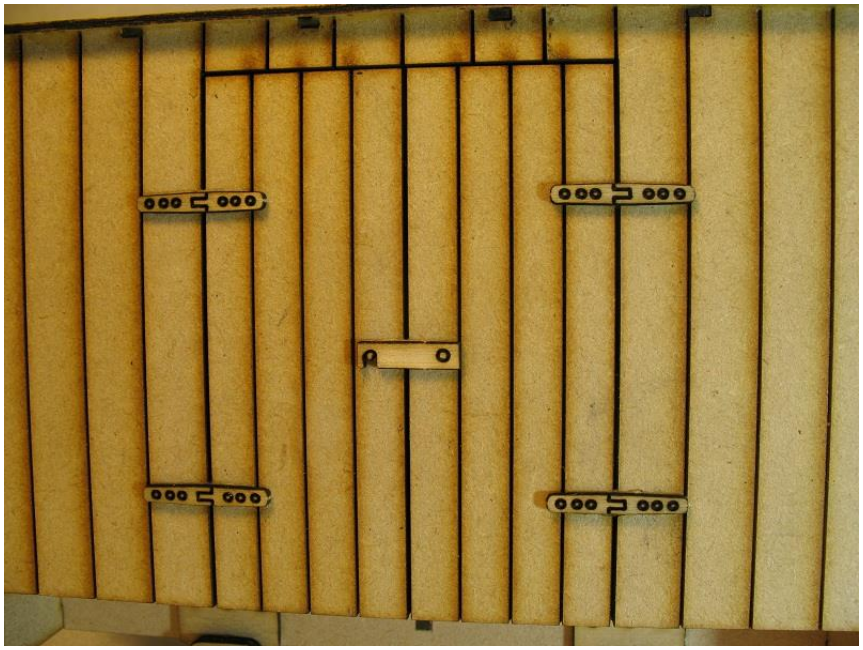
The roof can be applied dry but it is preferable to put it in a tin/tray and pour boiling water over it and leave it to soak for a minute or two. Apply glue all around the top edges and place the roof sheet so it protrudes evenly on all sides. A couple of strips of wood and several rubber bands should be used to keep the roof in place while the glue dries. You can use scraps from the chassis sheet.

It is recommended that you let it dry out overnight at room temperature.

If you plan to build several goods wagons it may be worthwhile purchasing our roof assembly jig.



Glue the simulated hinges and latches in place so they cover the door retaining tabs. If you want them to be a different colour than the wagon it is recommended that you paint them before mounting them.



Final assembly

Glue the completed body onto the chassis. Weigh it down until the glue is set.

We hope you enjoy your kit, but if you have any problem with construction email our technical help line at **techhelp@hglw.co.uk**