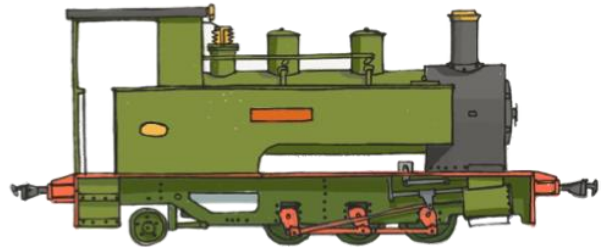


Bowaters MODELS

specialising in distinctive 16mm models



Bowaters Models – BMS Series Instructions Coach 21 and 22/Combine 14



Requires

- IP Engineering Large Laser Cut Bogies/HGLW Standard Bogies in the gauge of your choice
- Accucraft Chopper Couplings Z2

Required Tools

- Fine Sandpaper/Emery paper or boards
- Small Files
- PVA Glue
- Super Glue
- Sharp Craft Knife

Prototype Information

These coaches originally operated on the Sandy River and Rangeley Lakes Railroad. These coaches operated from the railroad's early days right up to the day it was torn up and scrapped in the mid 1930s. They were used to hold conductors, passenger carriage and less than car load freight. They were used the whole history of the railroad although these exact coaches were later additions to the railroad and the last ones delivered new originally to the Frankin and Magnetic/Sandy River Railroads. When the railroad quit, all 3 survived at first. 2 of them though the man widely regarded to as the saviour of the Maine two footers Ellis Atwood while the 3rd was burned in the 1960s. The surviving Two are now in Maine at the Wiscasset Waterville and Farmington Railway (correct as of January 2020).

About the Kit

The kit is a wooden kit comprising of a set of laser cut wooden parts and 3D printed sections.

Chassis Fitting

This kit is designed for IP Engineering Large Laser cut Bogies and HGLW Bogies. These are assembled as per the instructions. These are fitted at the end of the assembly stage.

Couplings

This kit is designed to make use of Accucraft Chopper Couplings which are to be mounted in the prototypical location.

Instruction notes

With these instructions, there are images which show various stages of the construction of one of the kits. They are of the test builds for BMS-001, BMS-002 and BMS-003 which isn't representative of the kit you have brought. They are for reference purposes only.

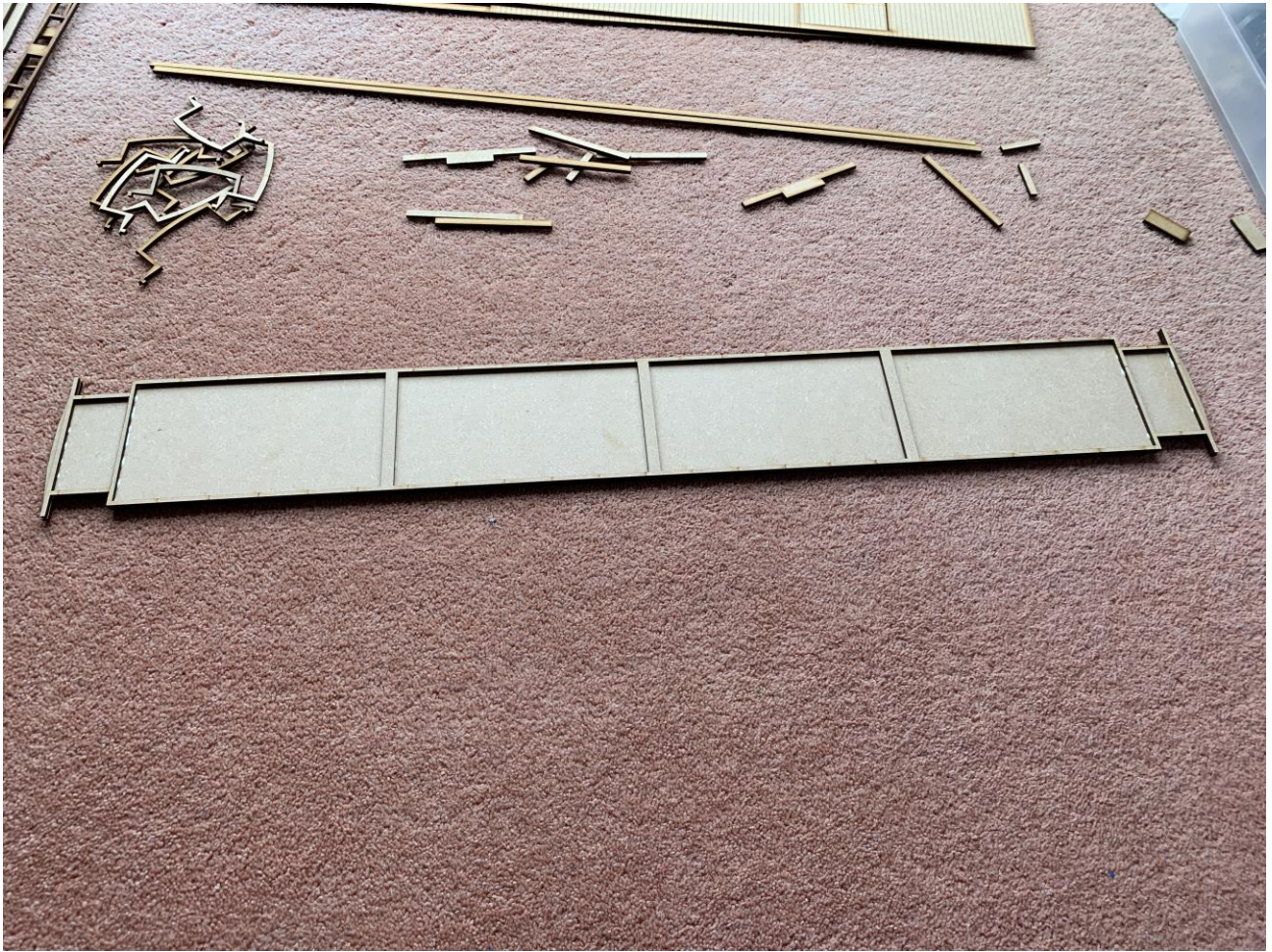
Painting

- Main Paint Scheme – Sandy River and Rangeley Lakes Railroad
 - Brunswick Green. Red Lead Roof. Lettering in Gold.

Please note, the surviving coaches have seen a variety of schemes over time especially during the Edaville ownership period. It is always best to reference against prototype images/known paint schemes.

Please Turn over

Please read though these instructions before beginning to assemble your
kit



Start by gluing the chassis undersection to the bottom of the main floor plate.



Now glue on the bufferbeams at each end.



Next, glue on the step supports onto the sections between the bufferbeams and the main body.



Next, glue on the internal support at the start of the coach body along with one of the main body chassis beams that run the length of the coach body.



Next, glue on the coach internal supports.



Next glue on the other long coach support on the other side of the chassis.



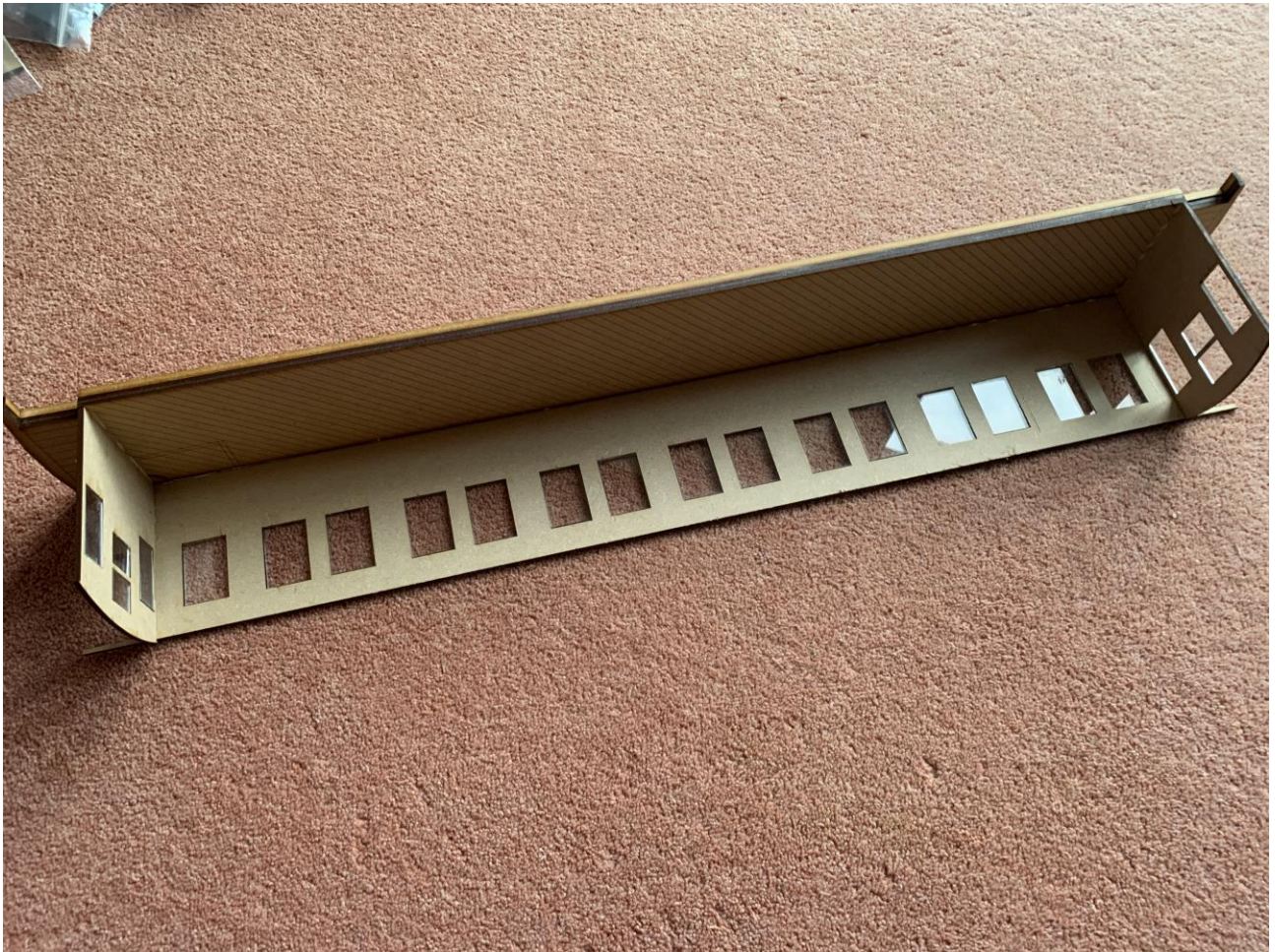
Now start installing all the windows. These fit flush within the openings on the ends and sides of the models. They also go into the roof clerestory section. We recommend attaching them being using either woodglue or PVA glue on the top and bottom of the windows.



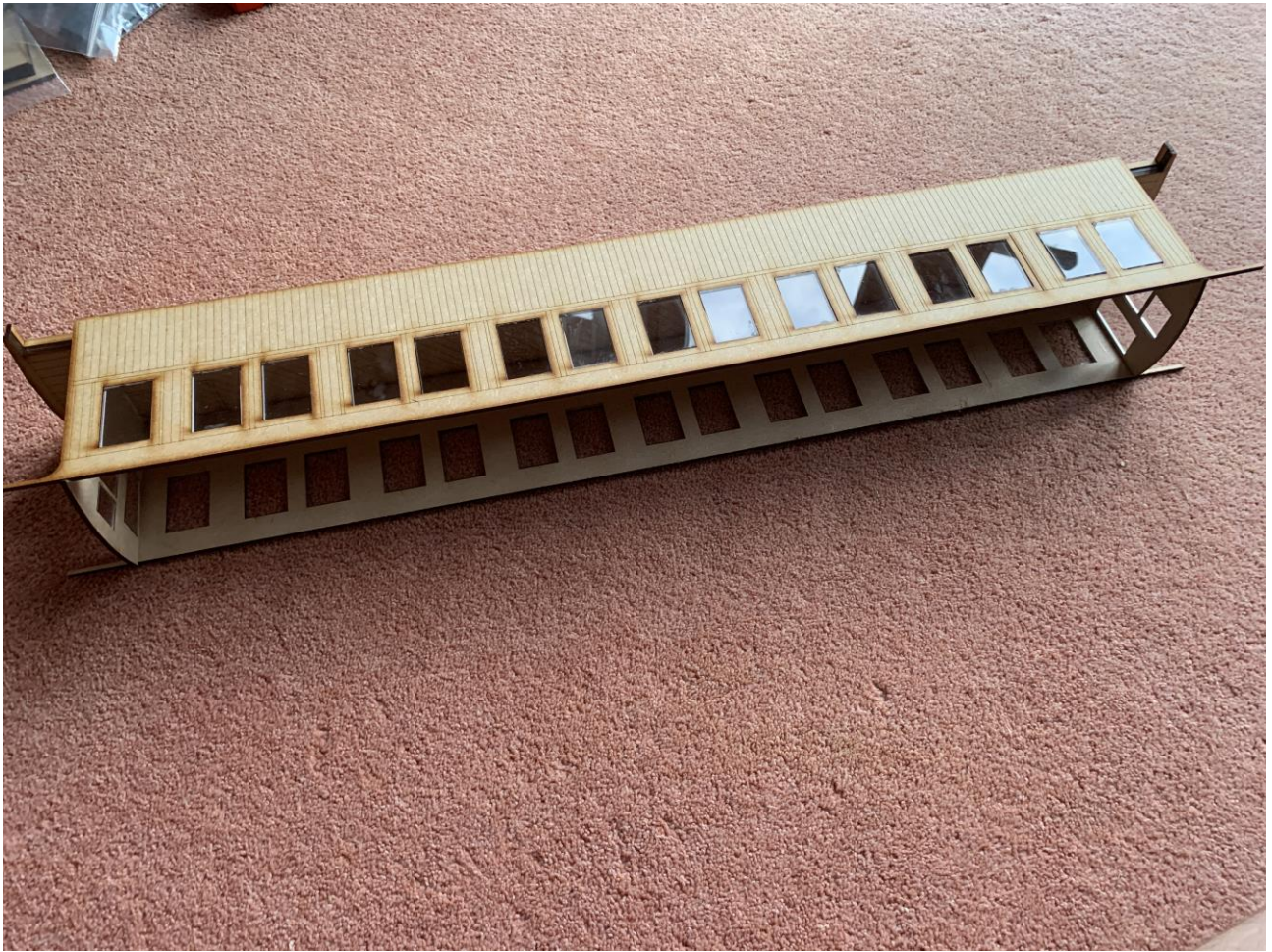
Next its time to start some of the smaller sub-assemblies. Start with the footsteps. Glue the U sections onto the rectangular pieces which form the steps.



Now glue the chairs together. They are formed of 4 separate pieces. Please note, these chairs are representative. The floor and the design of the chairs are such that you can replace them with ease at the time of assembly should you want a more accurate option.



With the subassemblies now complete, time to start the main assembly! Start by gluing the two end pieces and one of the sides onto the chassis. Note. On Coach 21/22, the single window goes at the end with the laser etched section on the floor. This is for the toilet compartment. On Combine 14, the windows go on the end with the toilet compartment etch.



Now glue on the other side.



Time for the interior. On the end furthest from the toilet, glue two of the seats so that the seat backs sit along the coach sides. The rest then go in line with the windows along the length of the coach up to the toilet compartment.



The toilet compartment is formed of two pieces which sit on top of the etched marks in the floor.
This completes the interior.



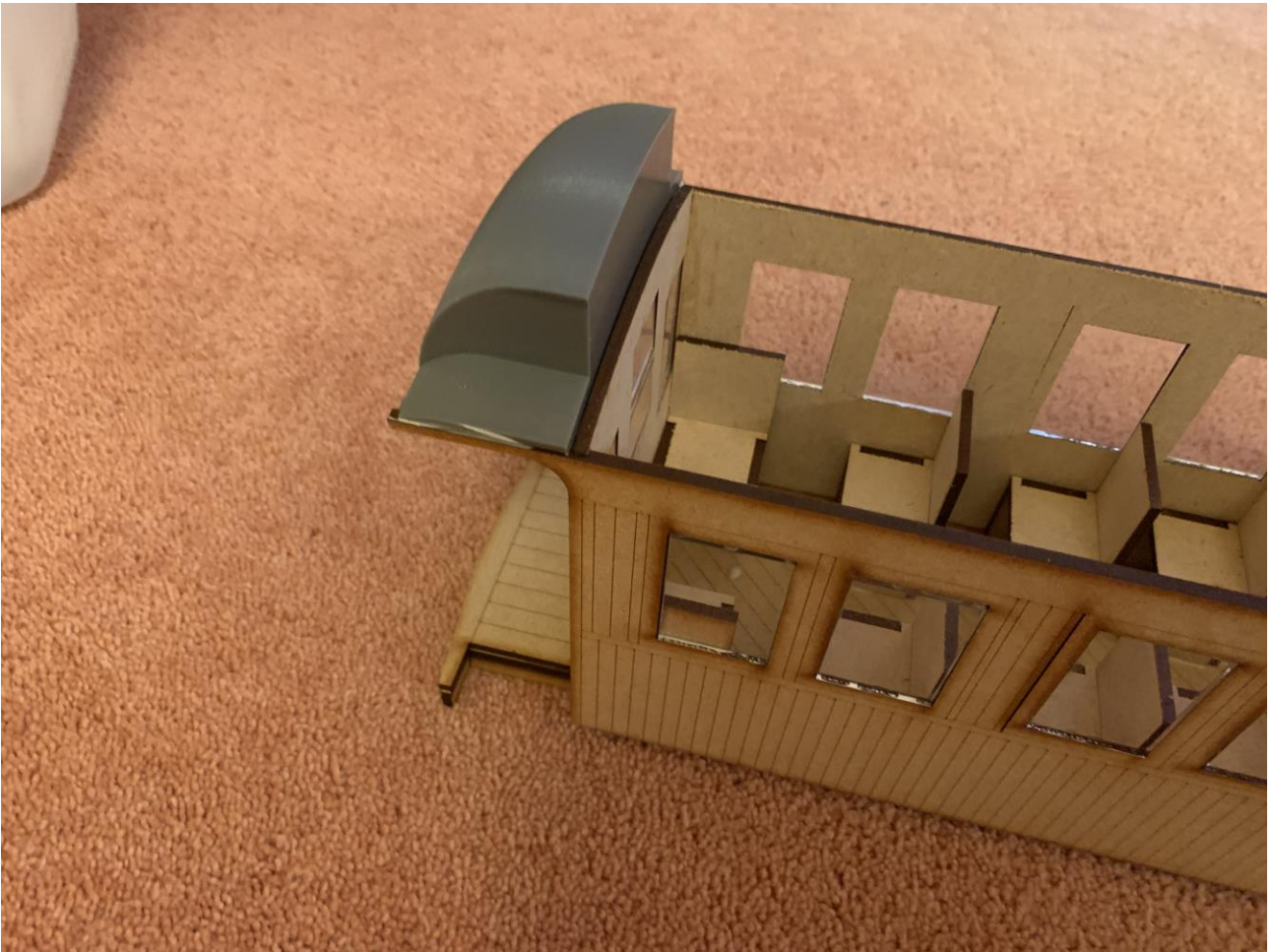
For reference, the interior of Combine 14's passenger compartment.



For reference, the assembled interior of Coach 21/22. Note the seats can be placed in either direction depending on your choice.



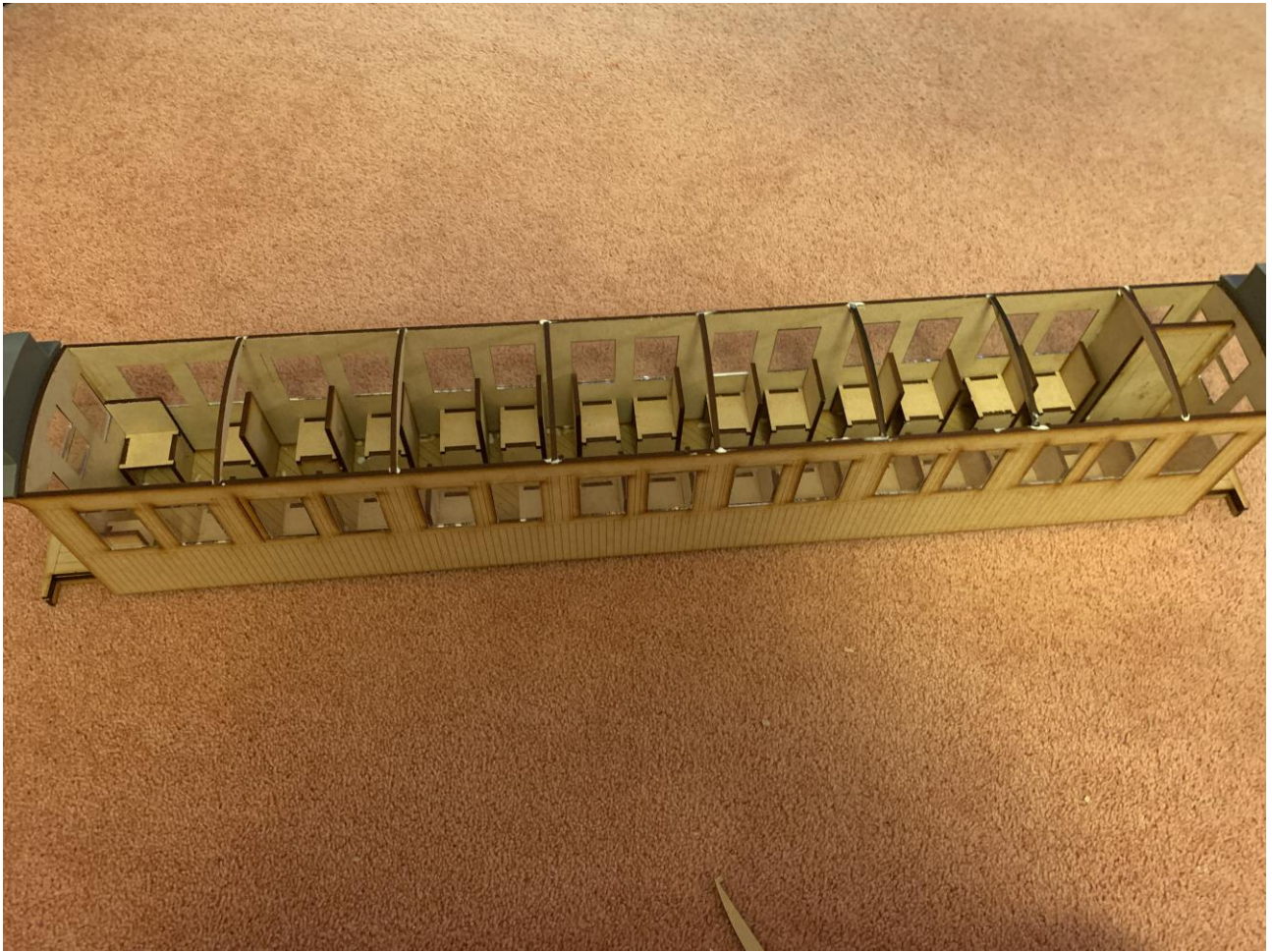
Within the brake compartment of Combine 14, the baggage doors can now be installed. These sit within the body and have two etched marks on them which are the width of the opening to aid with installation.



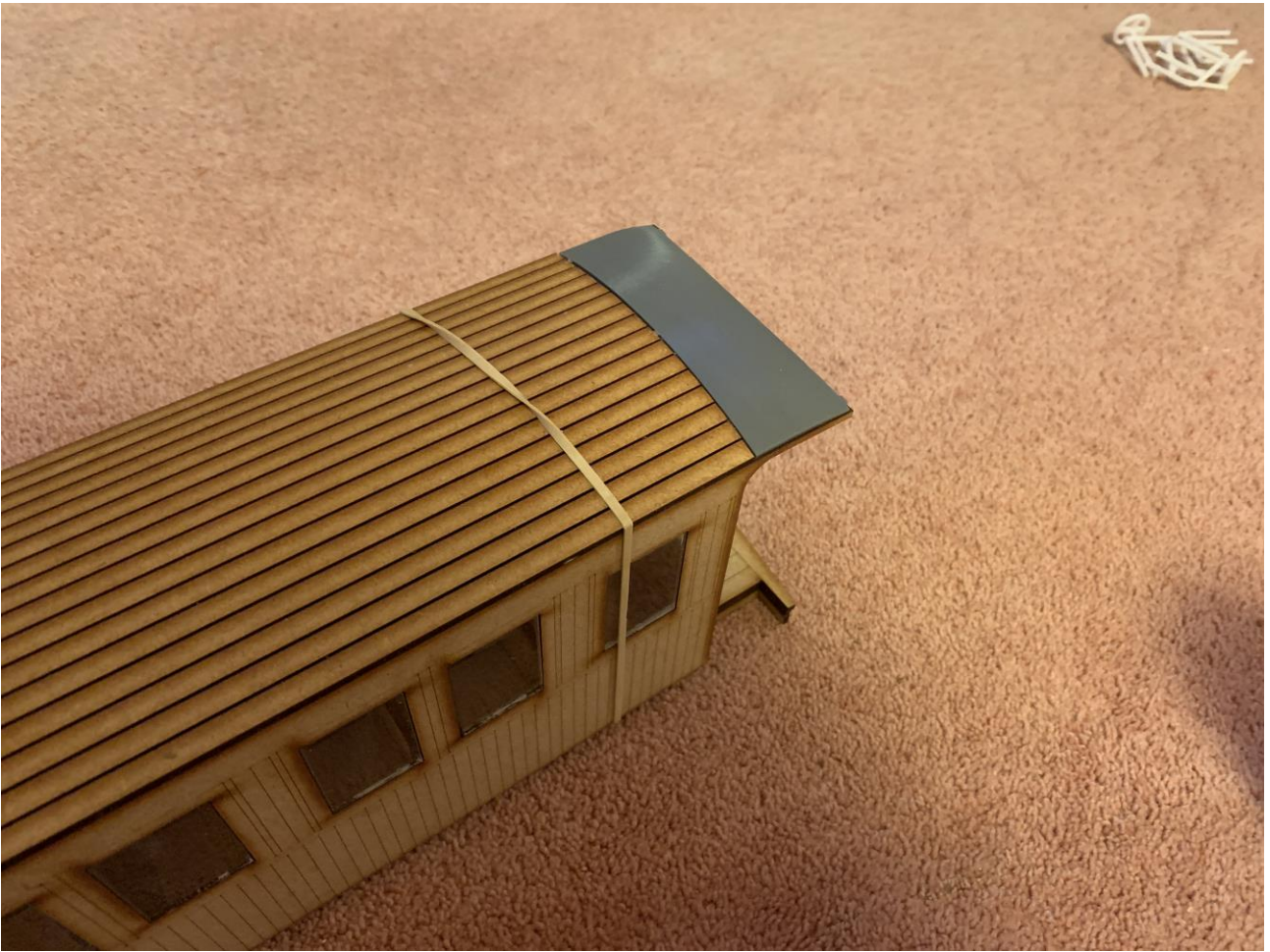
Now its time to start on the roof. There are two different roof profiles depending on which coach you chose. Start by gluing one of the 3D printed roof sections onto the end of the model. Shown is the version for Coach 21/22 and for Combine 14 as built



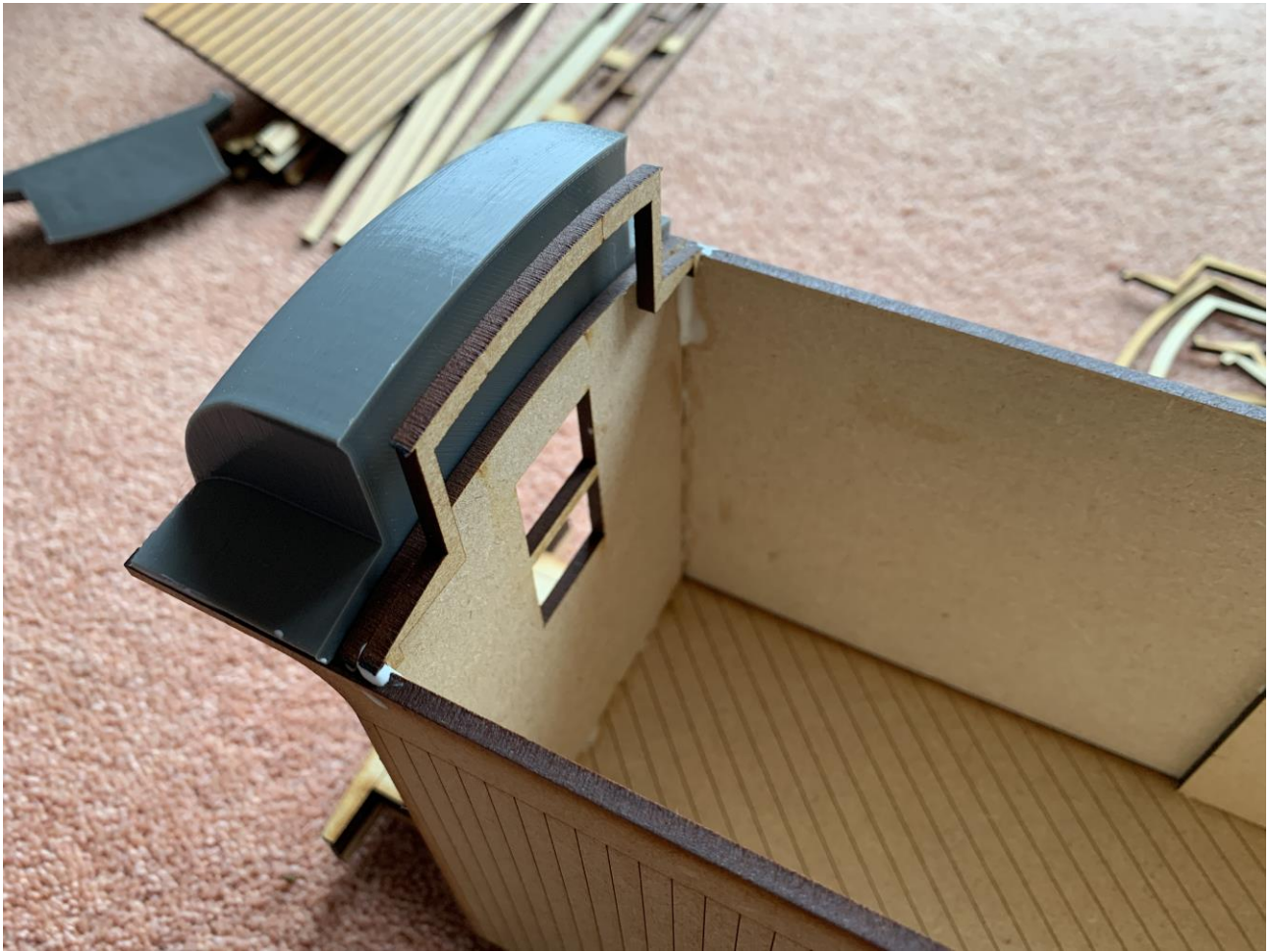
Shown here is the version for Combine 14 with the swayback roof.



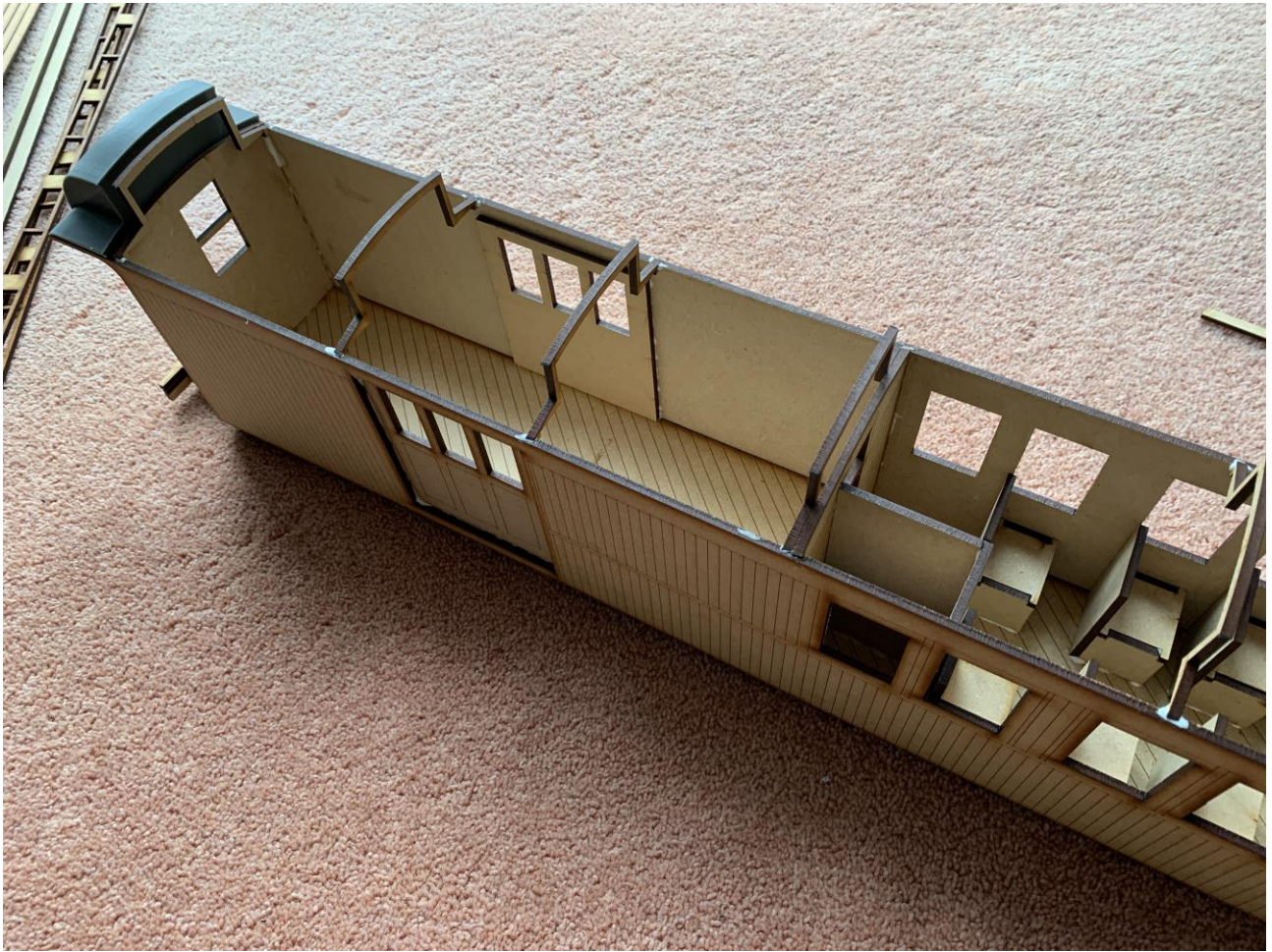
Combine 14 with Swayback Roof – Now glue on the roof supports. These run the length of the coach.



Now install the second 3D printed section. This completes the roof.



Next, glue on the first roof support which will sit just inside the main compartment.



Move along the roof gluing roof supports as you go. They should be spread out equally along the length of the body.



Next, glue on the roof beams either side of the supports.



Then glue on the roof sides which will run the length of the coach. Note, the single window goes at the baggage end of the combine or the toilet end of 21/22.



Now glue on the rest of the roof beams along the length of the top of the roof.



Now glue on the long boards that sit on the top of the sides. There is one per side.



The next three steps can be done in any order. It is up to you which one you do first. Glue the steps on to the sides of the chassis. There is one per corner.



Now glue on the handrails onto the ends of the coach. If you have a handbrake version, the handrail with the brakewheel goes on the left hand side when looking down the coach end.



Now glue on the bogies. These sit within the main coach body in the ends of the coach compartment in the wider area. Couplings are then added to the ends of the coaches and can be bolted on by drilling two holes into the ends of the coaches should you wish to do so.

Your Model is now complete.



We hope you enjoy your Bowaters Models kit! If you have any questions, don't hesitate to contact us on info@bowatersmodels.co.uk

We thank you for your custom.