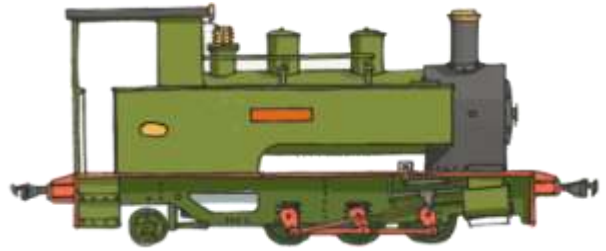


Bowaters

MODELS

specialising in distinctive 16mm models



Bowaters Models – BMGC Series Instructions SECR Compartment Coaches including MDF/Plywood versions and the Birdcage Coaches



Requires

- Slaters Plasticard 1:32 Wagon Wheels
- Walshall Engineering 3 Link Couplings

Required Tools

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

Prototype Information

These and similar coaches were used around the south of the United Kingdom for a passenger services from the mid 1910s onwards. The examples designed cover a C type Trio Set (the last trio sets built by the South Eastern Chatham Railway) and the last compartment coaches built in the form of the 100 seater coaches. These all saw service from until the British Railways era with withdrawals taking place between 1957 to 1963.

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 the Bowaters Models Maunsell Coach Bogies. This is assembled as per the instructions.

Couplings

This kit is designed to make use of Walshall Engineering 3 Link Couplings which are to be mounted in the prototypical location.

Instruction notes

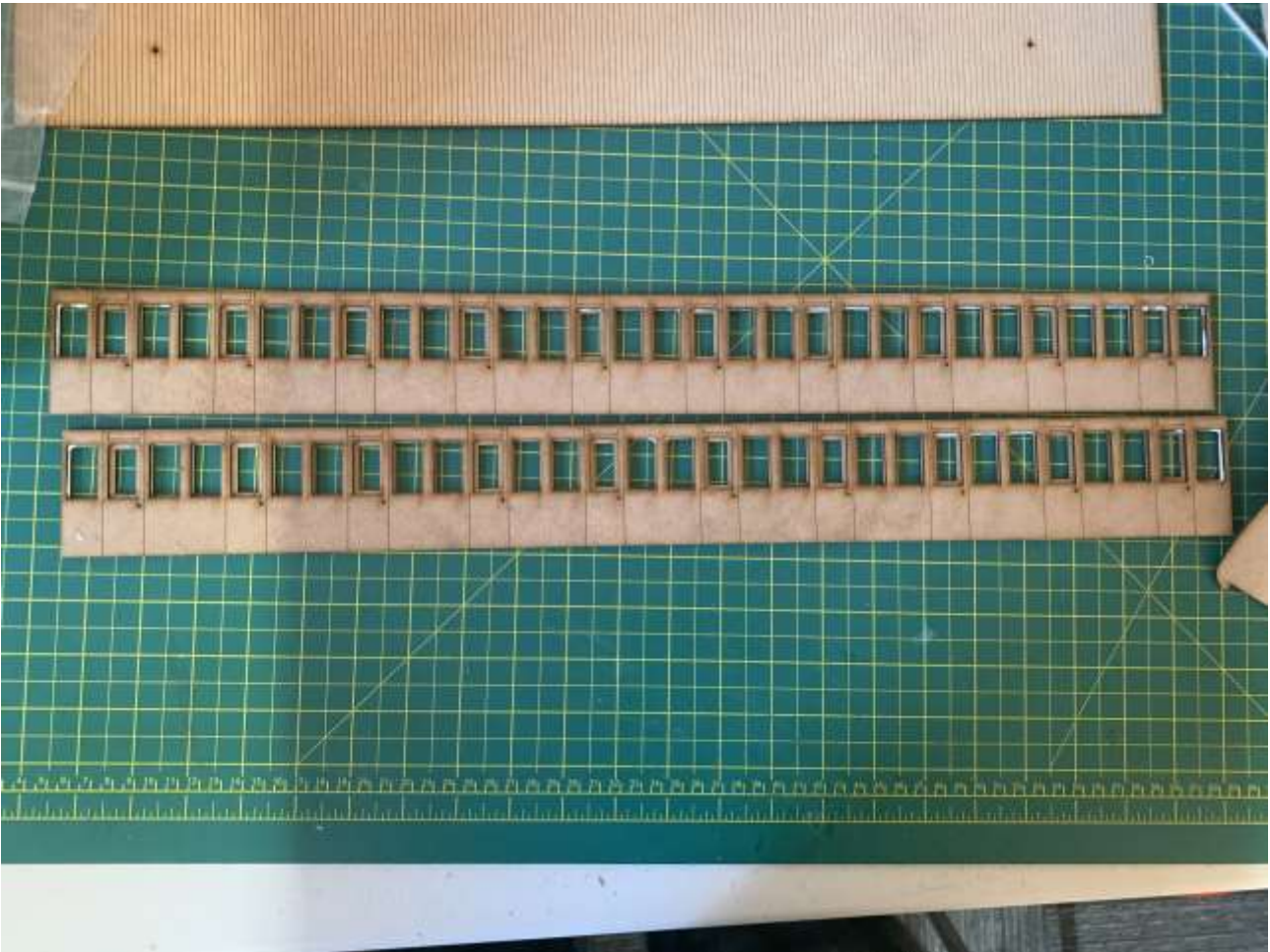
With these instructions, there are images which show various stages of the construction of one of the kits. They are of the Test build for BMGC-012, BMGC-013 and BMGC-014 which isn't representative of the kit you have brought. They are for reference purposes only. There is also an addition of images from the test building of BMGC-011P which is the Tumblehome fitted prototype as well as images from the prototype Birdcage coaches.

Painting

For painting, it is recommended you refer to prototype images to ensure the models are in the condition that you model (Pregrouping, Grouping or Nationalisation).

Please Turn over

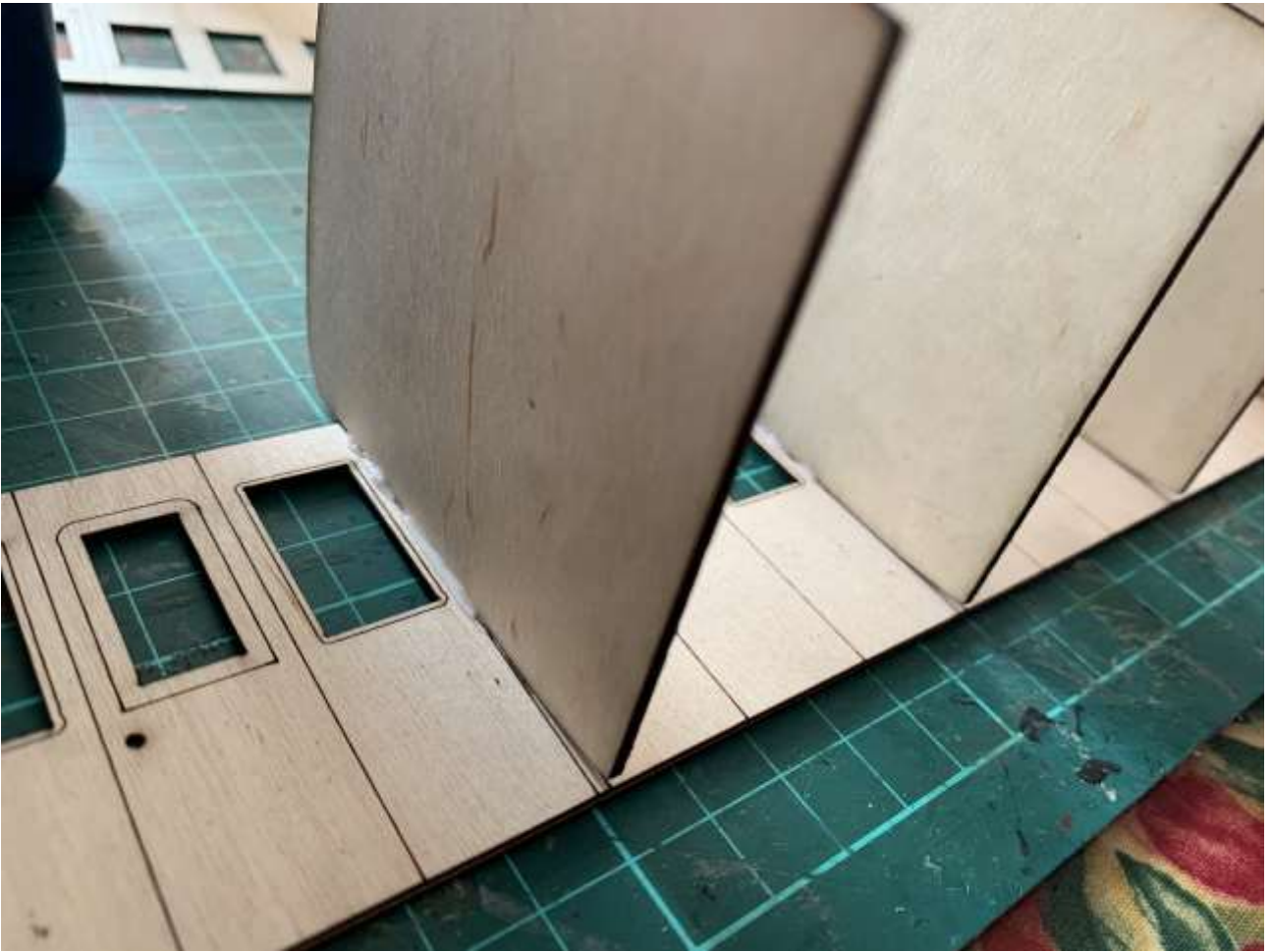
Please read though these instructions before beginning to assemble your
kit



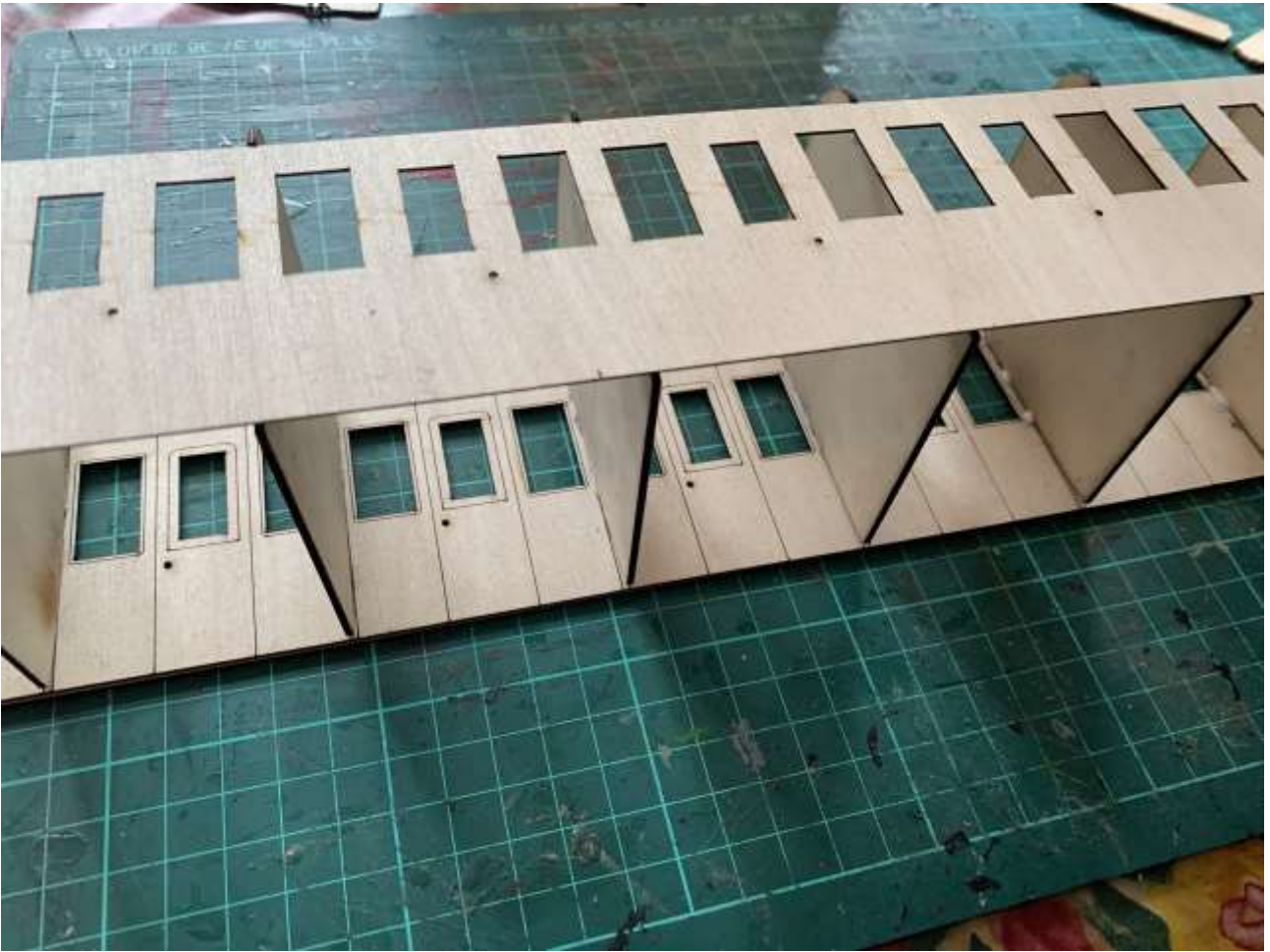
To start assembly, glue the side pieces together making sure that you end up with a pair of sides. The etched detail on both parts go onto the outside of the coach side to give a 3D side to the model.



To start assembly of the body, glue the bufferbeams and chassis sides onto the chassis bottom making sure that everything is flush with the edges of the chassis plate.



TUMBLEHOME VERSION - To assemble the main body shell, start by gluing the internal partitions/ends onto one of the sides making sure you only glue the straight parts of the partitions. These slot into a slot on the sides of the inner side.



Next, repeat for the second side of the coach. Note, before proceeding onto the next stage, make sure the glue has 100% set before proceeding.



To form the curved sides, we recommend starting at one end and working your way down the coach. Use superglue between the bottom of the coach and partitions and once applied, apply pressure between the parts bringing them together. Hold them until the glue has dried before moving your way down the coach. The sides are flexible enough to allow for this. Once you've done the inner section, glue the outer layer over the top before repeating the curving process with that layer. To ensure you have the correct internal layout, refer to prototype drawings along with images taken later in these instructions.



MDF VERSION - Flip the chassis over and then glue one of the coach sides and the two end pieces (the partitions with etched end detail on the outsides) onto the chassis plate.



Next, glue on the other side and one of the internal partitions to complete the body shell. Please note, the internal partition glued in varies from coach to coach and is one that fills the entire space. It is recommended you check against the layout of the coach you are building (see later in the instructions) to choose which one to use.



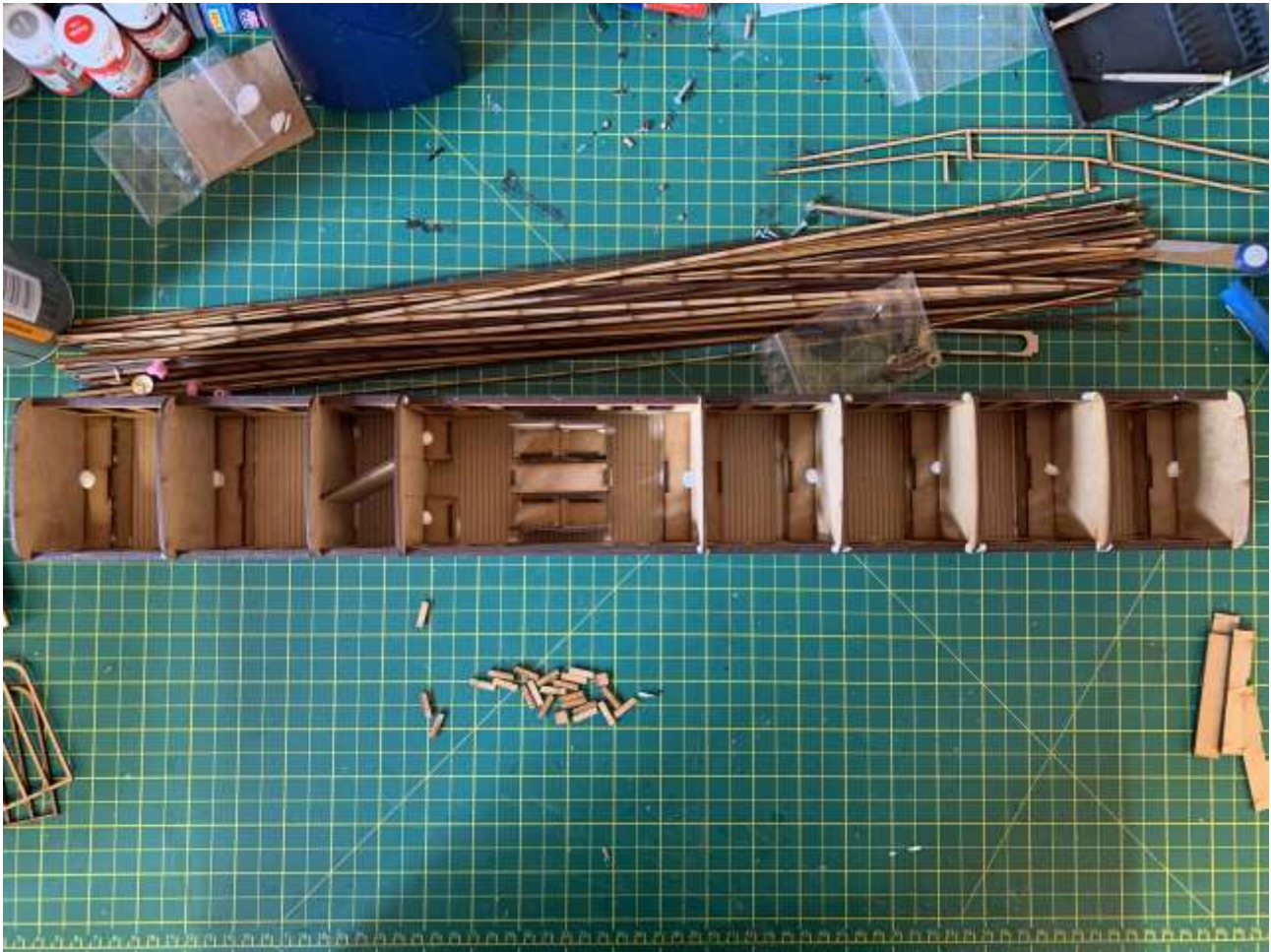
100 Seaters and the 8 Compartment Brake Coach - Next, glue in the rest of the internal partitions



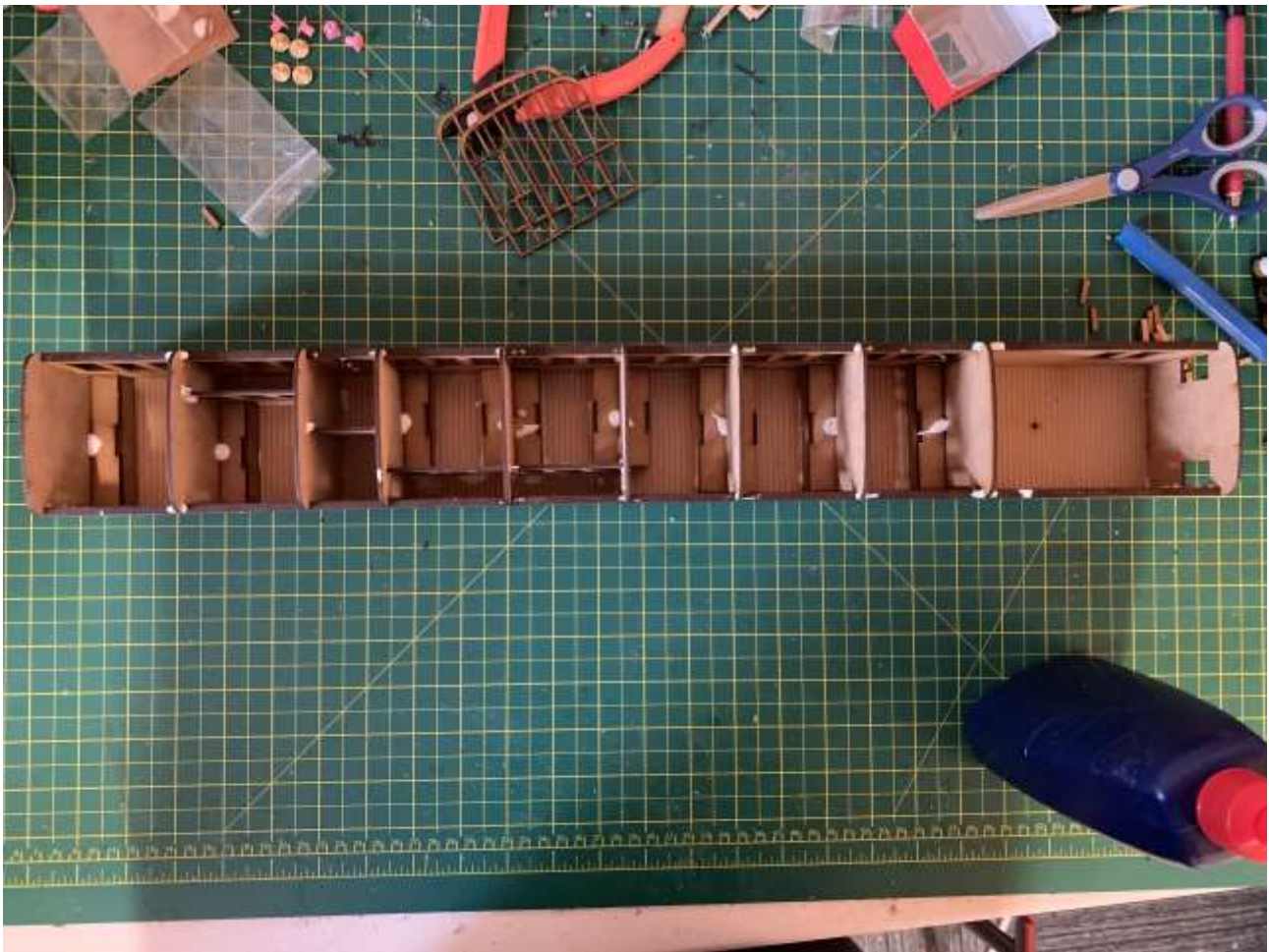
Now glue in the seats. These are formed of two pieces which glue together in a L shape. It is recommended you assemble them before gluing them into the coach.



The two Composite Coaches – There are a number of smaller seats which are glued in a L shape. For the Composite Non brake coach, there are also 4 chairs which are assembled using the slots cut into the parts.



Composite Non Brake Coach – Internal Layout. We recommend gluing in the Partitions either side of the saloon section when assembling the main body shell. Also notice the panel which splits the Lavatory section of the coach. This slots in between the two partitions.



The Composite Brake Coach – Internal Layout. Make note of the use of internal walls to reduce the size of 3 of the internal compartment. There are also a number of partitions with etched doors in them which represent the corridors inside the coach. Also notice the panel which splits the Lavatory section of the coach. This slots in between the two partitions.

We recommend gluing in the centre compartment partition when assembling the coach body shell.



The Composite Brake Coach – Internal Layout. Another view of the internal layout. Note, one of the partitions has a cut out in it for the corridor in that part of the coach.



Now start to glue the roof strips in place. Start by gluing on the larger width sections onto the centre of the roof.

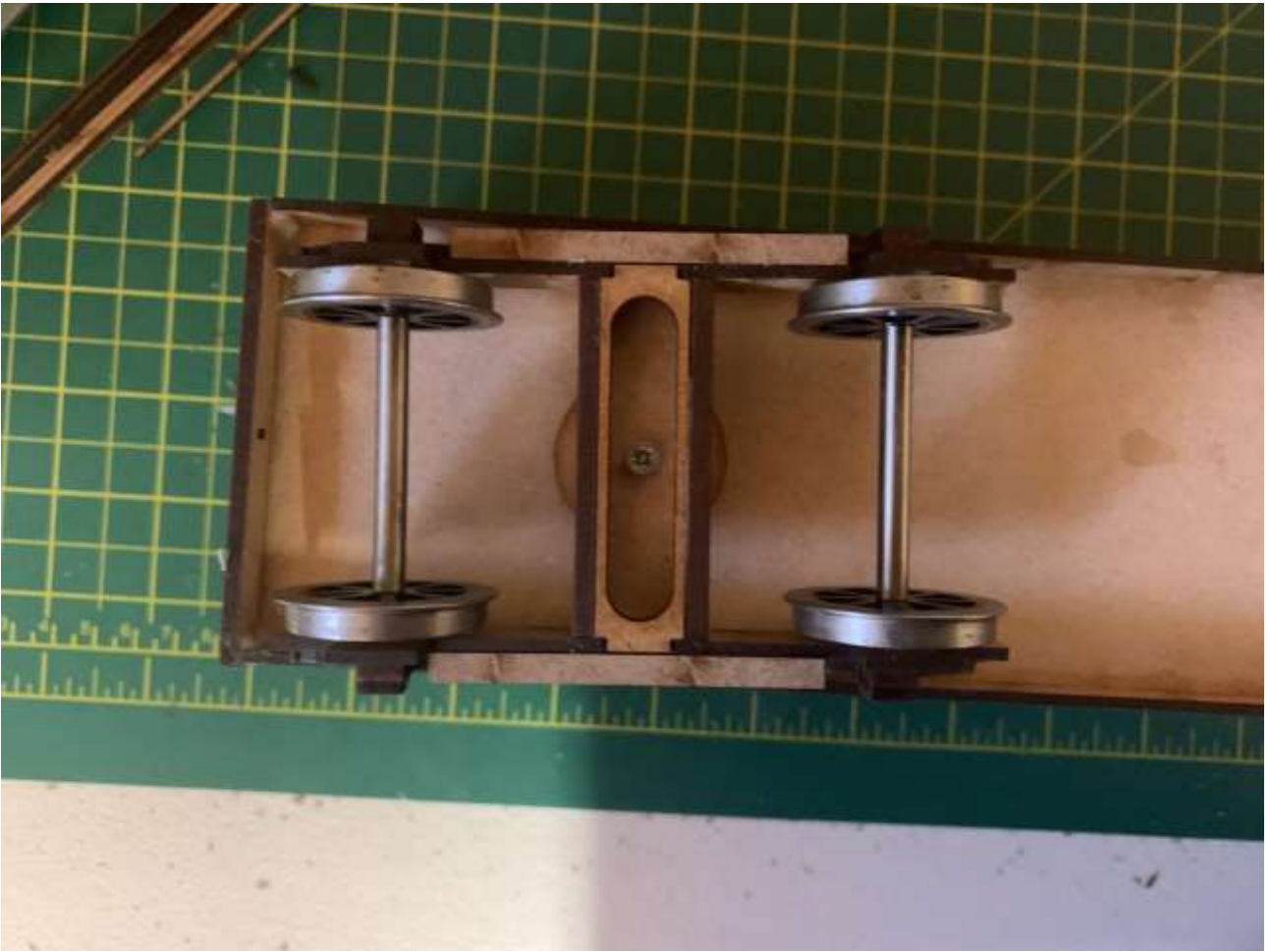
NB – If you are assembling a Birdcage coach, there is a specific section for this at the end of these instructions.



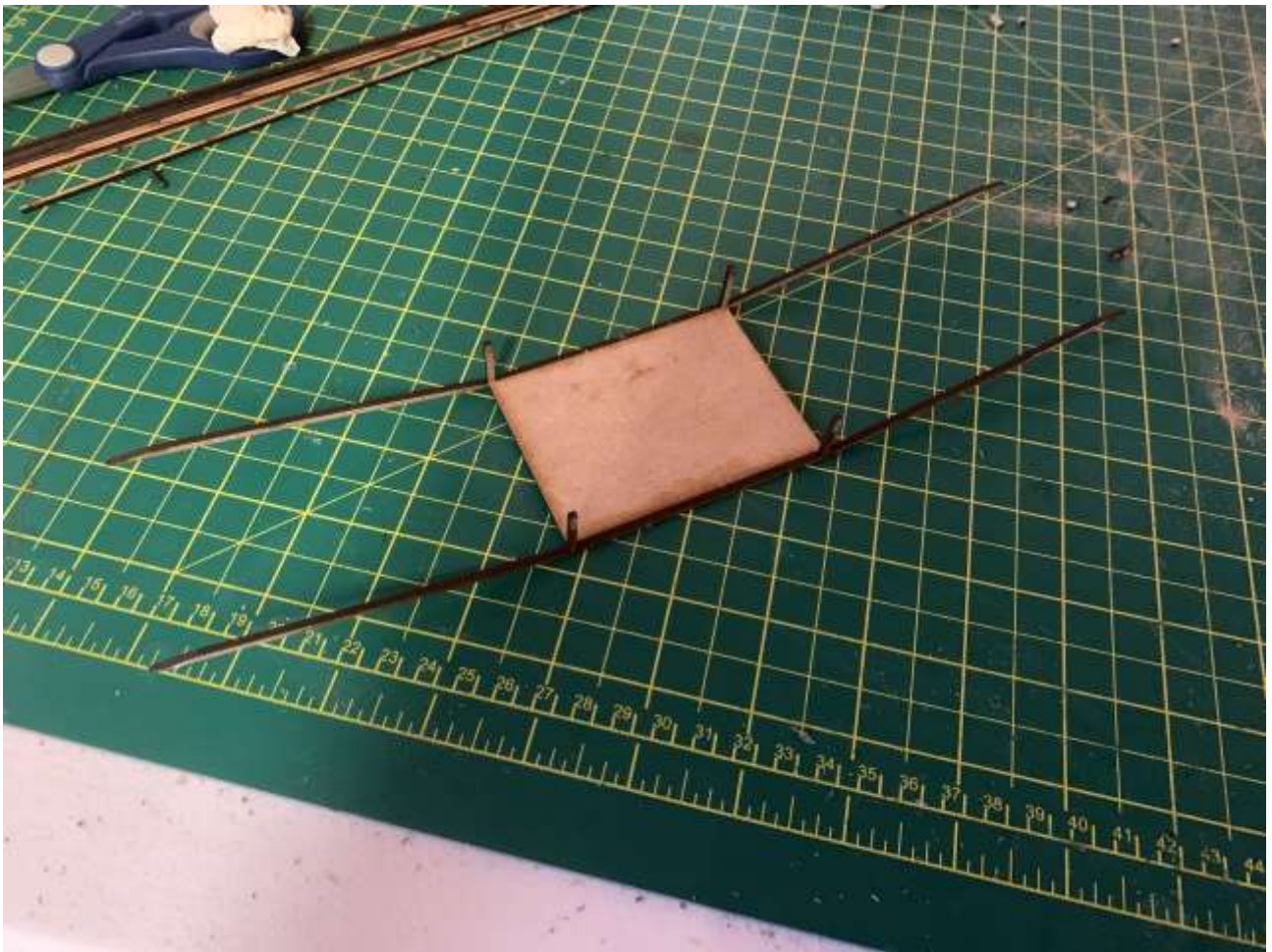
Then start to glue the thinner strips onto the tightly curved section of the edges of the roof. We recommend gluing these on one or two at a time to make construction easier.



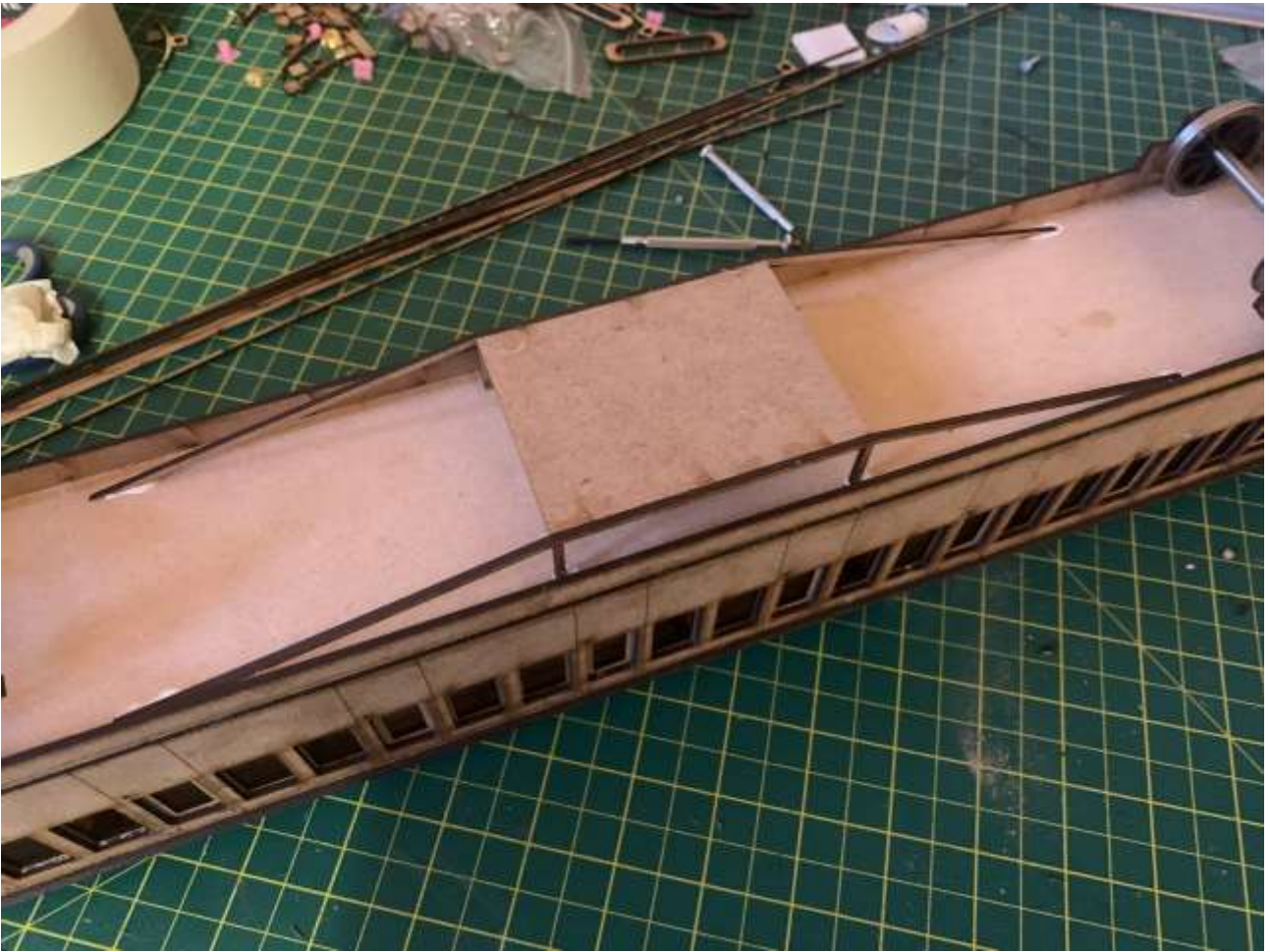
To mount the bogies, glue the bogie bolster onto the bottom of the coach ensuring that it sits over the hole in the bottom of the chassis plate.



Next, screw the bogie into place using the screw provided



To complete the underside of the chassis, glue the equipment tray onto the truss rods.



Next, glue that into place on the underside of the model in the middle of the coach.



Now, slide the couplings into the slots on the bufferbeams and retain them in place using the split pins provided.



To finish assembly of the ends, glue the buffer housings onto their locations on the bufferbeams. Naturally if you don't wish to use the included buffers, there are etched marks on the bufferbeams which can be used as drilling marks to fit buffers of your own choice.



Next, glue on the drawing pins into those housings to complete the buffers.



To finish the model, glue the door ventilators into place above the doors.

Your Model is now complete.

Isle of Wight Specific

If you are building one of the Isle of Wight versions, you can glue on the outer beading during the body construction. These are normally the same colour as the main coach body so are able to be painted together.

Birdcage Specific



The main difference on the birdcage coaches are the ends. Start by gluing on the end panel into the body. It is recommended you assemble the birdcage at the same time as the roof where possible.



Next, glue on the 2 straight side panels onto the inside of the viewing compartment. Then glue on the front window panel into place to form the main structure of the guard's compartment.



Next, glue into place the roof support for the main roof onto the front windows.



To assemble the roof on the birdcage end, start by gluing the smaller thin planks onto the birdcage end. These go either side of the guard's compartment.



To finish, glue the thicker short planks onto the roof of the birdcage end. You can then continue to roof the model as per previous instructions.

Bogie Instructions



To assemble the bogies, start by gluing the two center frame stretches into place on the cut outs on the bogie side.



Now glue into place the next bogie side.



The next step is to glue the top of the bogie with the small hole into the slot that has now been created on the top of the bogie.



Then, glue in the bottom piece into the bottom slot.



Next, its time to install the wheelsets. At this point, the bogie sides are flexible enough to gently bend to fit the wheelsets into place.



Now, glue on the axlebox outers and spring detail onto the outside of each axle.



Now glue on the foot step of the bogie onto the outside. Once dry, the bogies will now form a rigid structure for running. Also glue on the axlebox covers onto the outside of each axlebox.



If using the included mounting point, glue that together using the larger disc and 2-3 of the smaller discs depending on your use case in a top hat shape. Then screw the bogie into the top of that top hat so the large disc is at the bottom. You can then mount that onto your model in the required place.

Your bogies are 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.