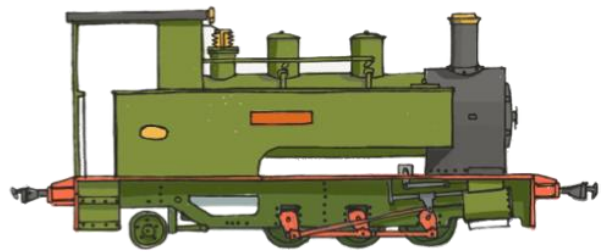


Bowaters

MODELS

specialising in distinctive 16mm models



Bowaters Models – BMGL Series Instructions

British Railways Type 3/Class 33 and British Railways

JA/JB/Class 73



Requires

- Fosworks Twin Motor Bogies
- Walshall Engineering 3 Link Couplings
- A Fine Mesh material for the side vents

Required Tools

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

Prototype Information

These Bo-Bo Diesels and Diesel-Electros were built during the modernisation plan to replace steam engines around the Southern Region alongside mass electrification. Both major classes survived in service until the 1990s with some of the class 73s remaining in service on the national network with some now reengined for use with Network Rail and GB Rail Freight. The models cover them all as built and as they originally entered service.

About the Kit

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

Chassis Fitting

This kit is designed for the Fosworks Power Bogies. These arrive ready to run only needing the bogie sides gluing on along with the steps.

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 Digital Test build for BMGL-006 which isn't representative of the kit you have brought. They are for reference purposes only.

3D Print Notes

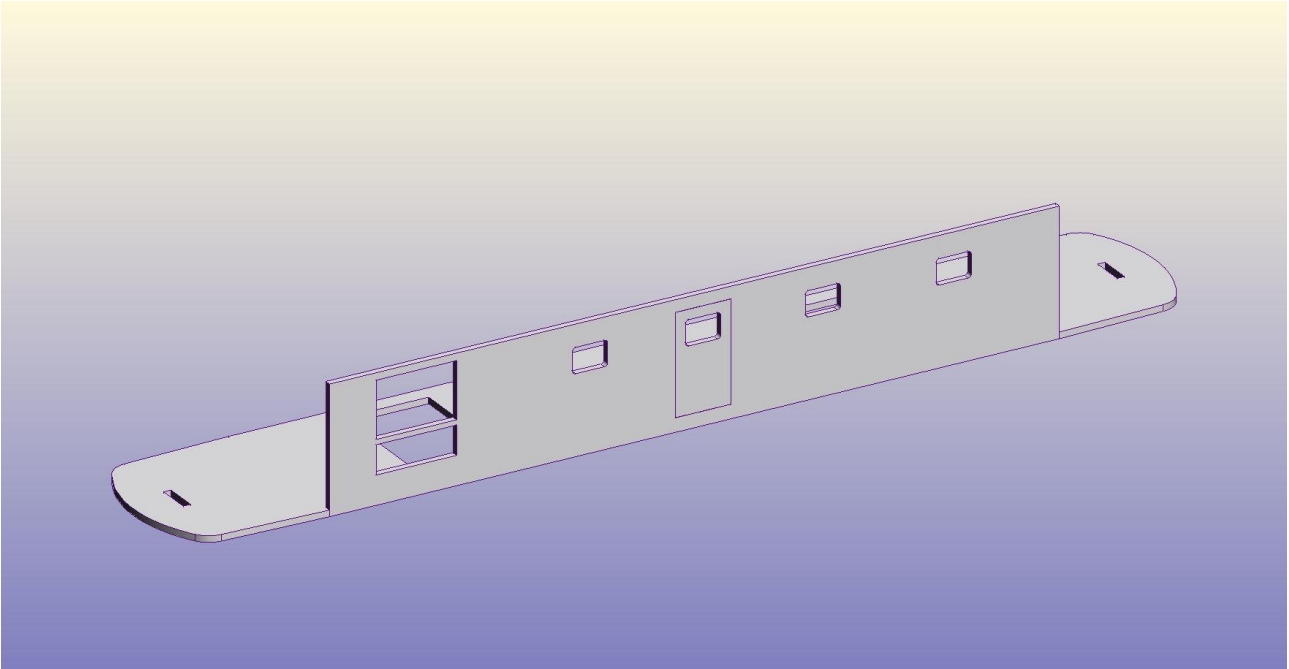
The 3D prints in your kit are formed using Fused Deposition Modeling (FDM) printing. This means the parts are formed in multiple layers. This means your parts will need some work to get a smooth finish. This is easy to achieve by using a good filler primer (such as the one Halfords in the UK sell) with a sanding between each coat to fill the gaps. It will take at least 4 passes to get a smooth results but it is a very relaxing process we've found! Easily the entire 3D printed parts can be done in a day allowing for the primer to dry and a light grade of sandpaper being used.

Painting

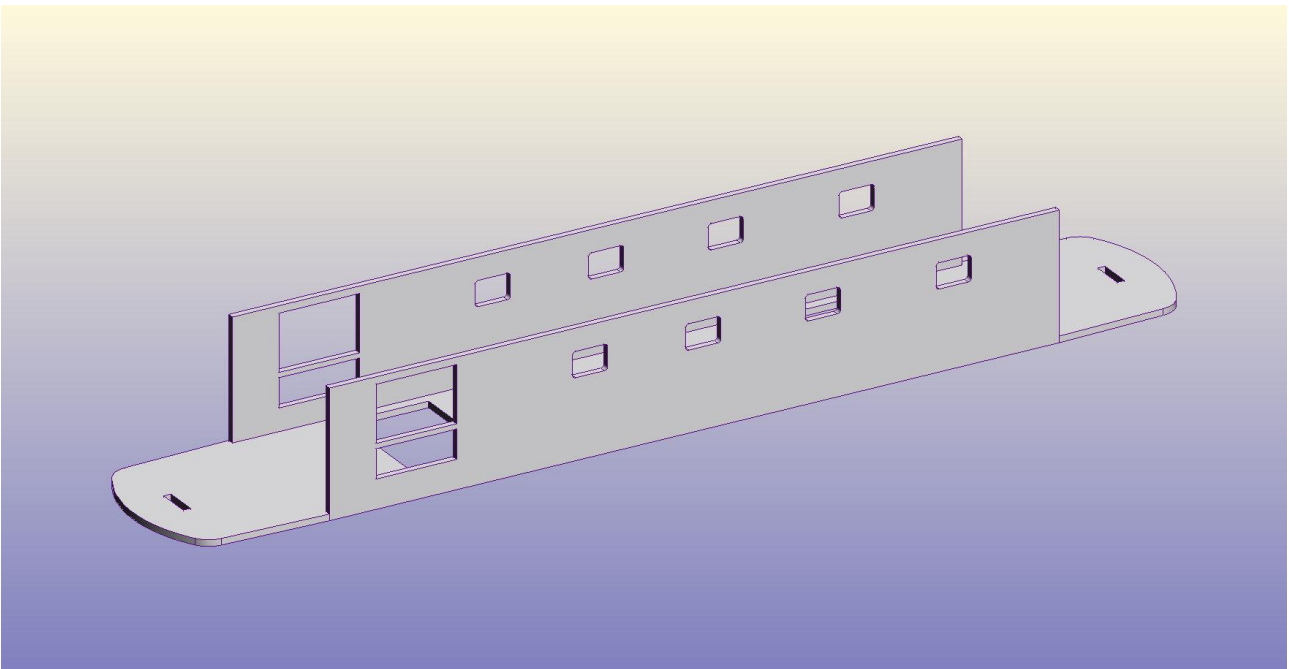
For painting, it is recommended you refer to prototype images to ensure the models are in the condition that you model (Late BR, BR Blue, Sectorisation and post privatisation).

Please Turn over

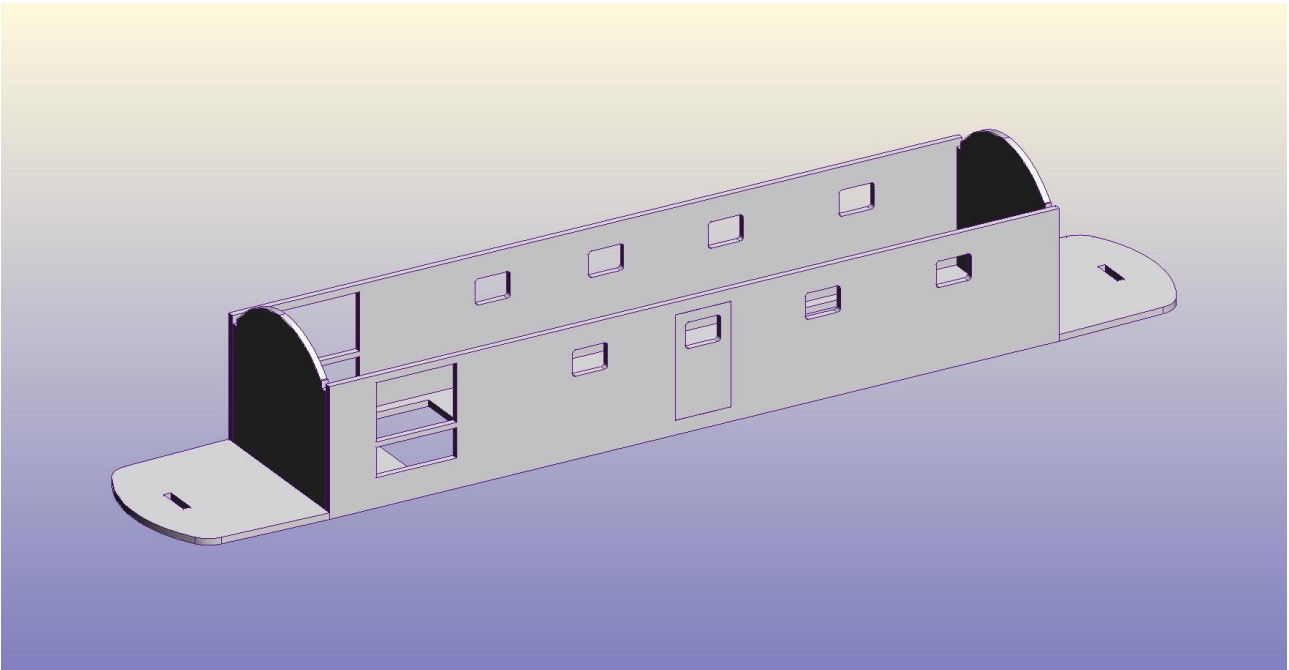
Please read though these instructions before beginning to assemble your
kit



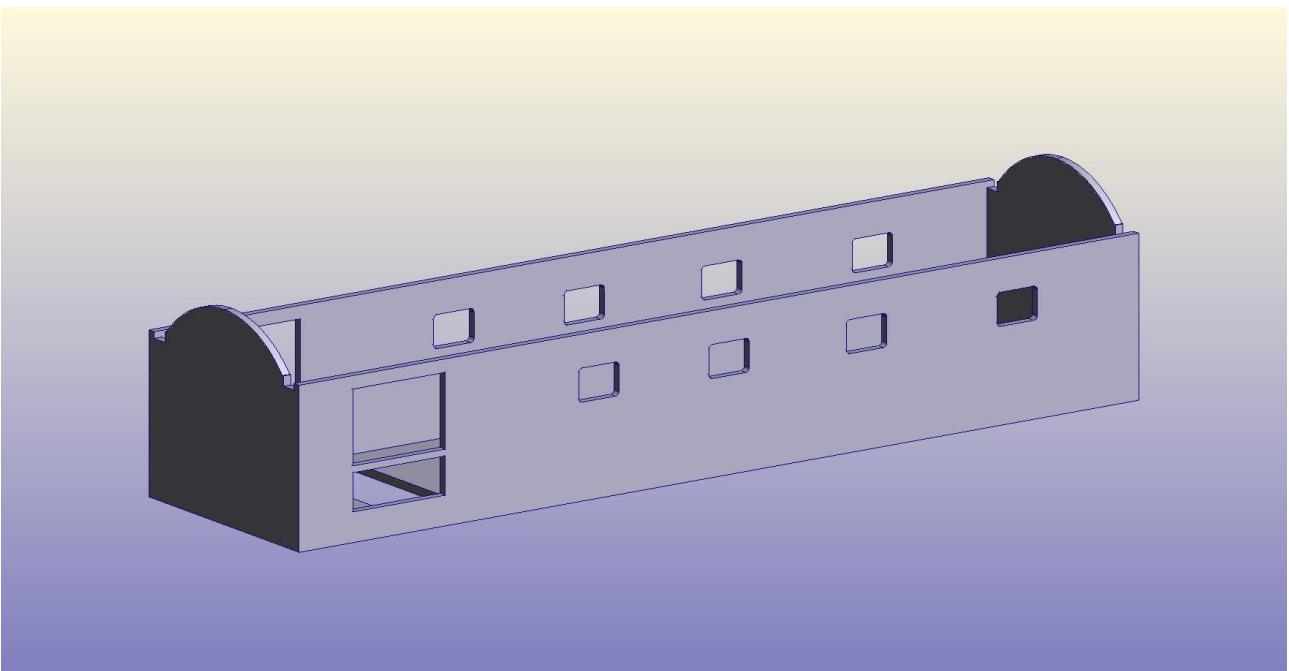
33/2 and 73/0 – Start by gluing the first bonnet side onto the top of the chassis plate with the door etch on the outside of the model. Please note, for the 33/0, there is a slightly different build instruction but they share very similar construction.



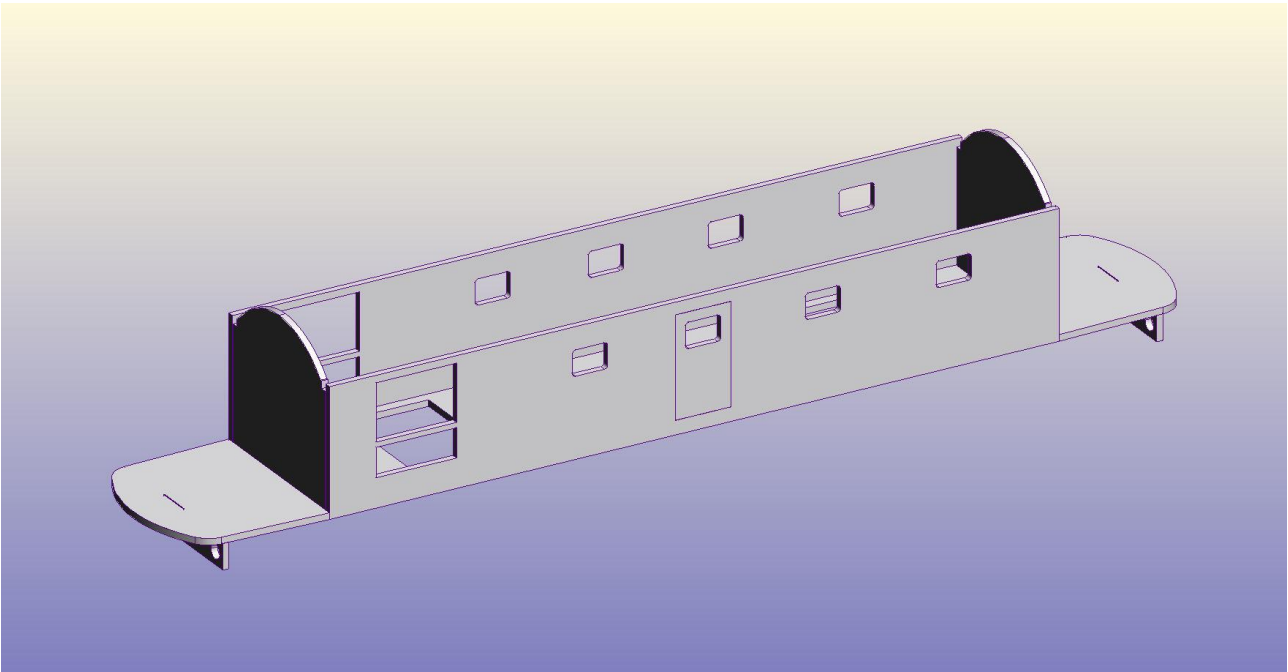
Next glue on the other side making sure it is the opposite of the existing side.



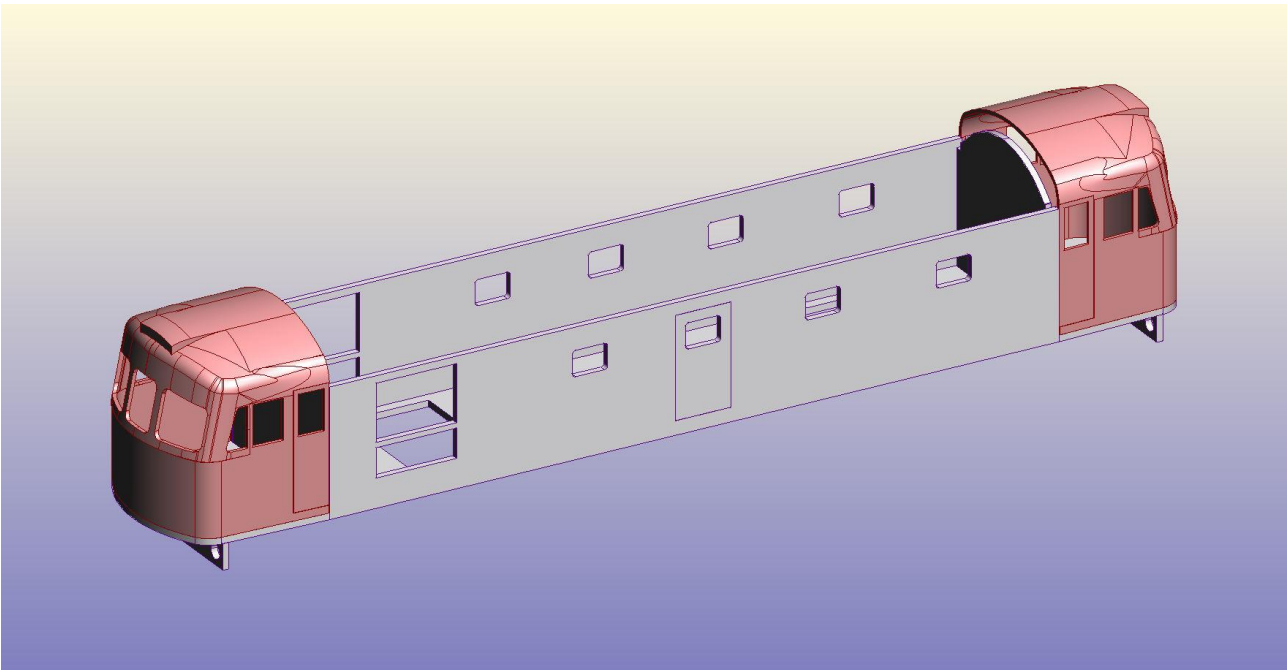
Now glue into place the bonnet internal partitions. For the 33/0, see below.



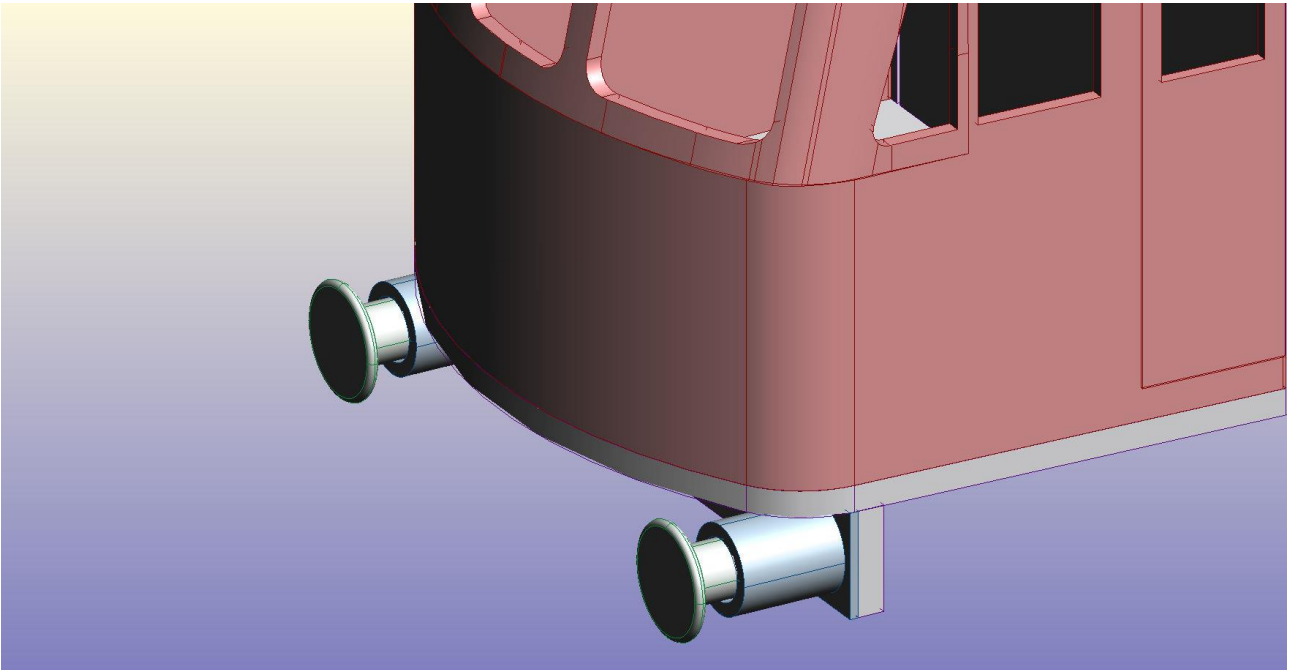
For the Class 33/0, the bonnet is all built around a smaller main plate. On this, the sides are glued on the outsides rather than the top with the internal partitions forming an open box. This is then glued onto the chassis plate making sure the holes all line up. This is because the 33/0 is wider than the other two.



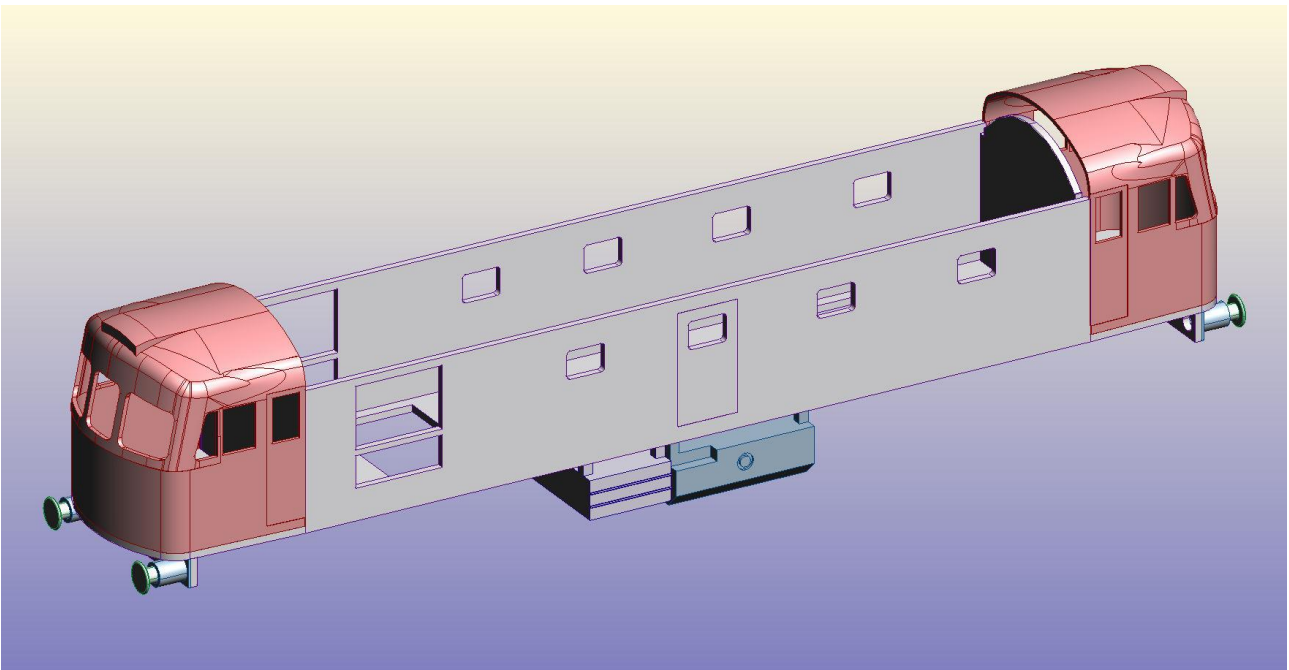
Next, glue into place the bufferbeams.



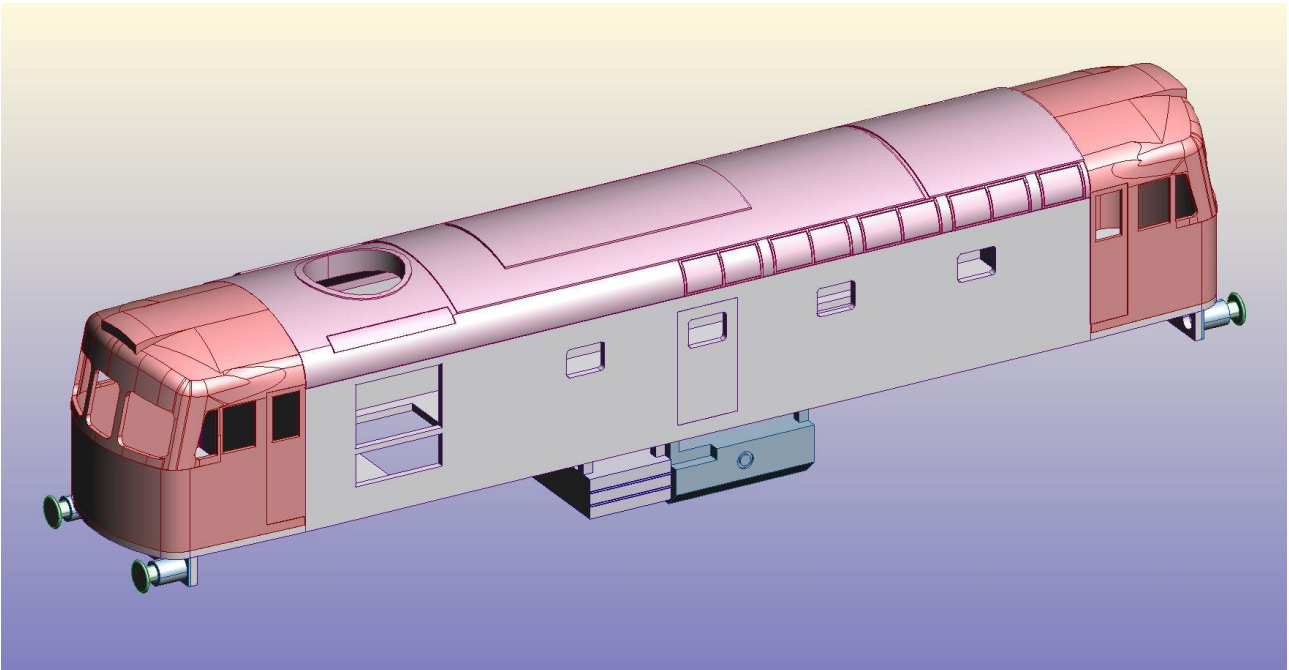
Now glue into place the filled in cab ends (see the note on page 2).



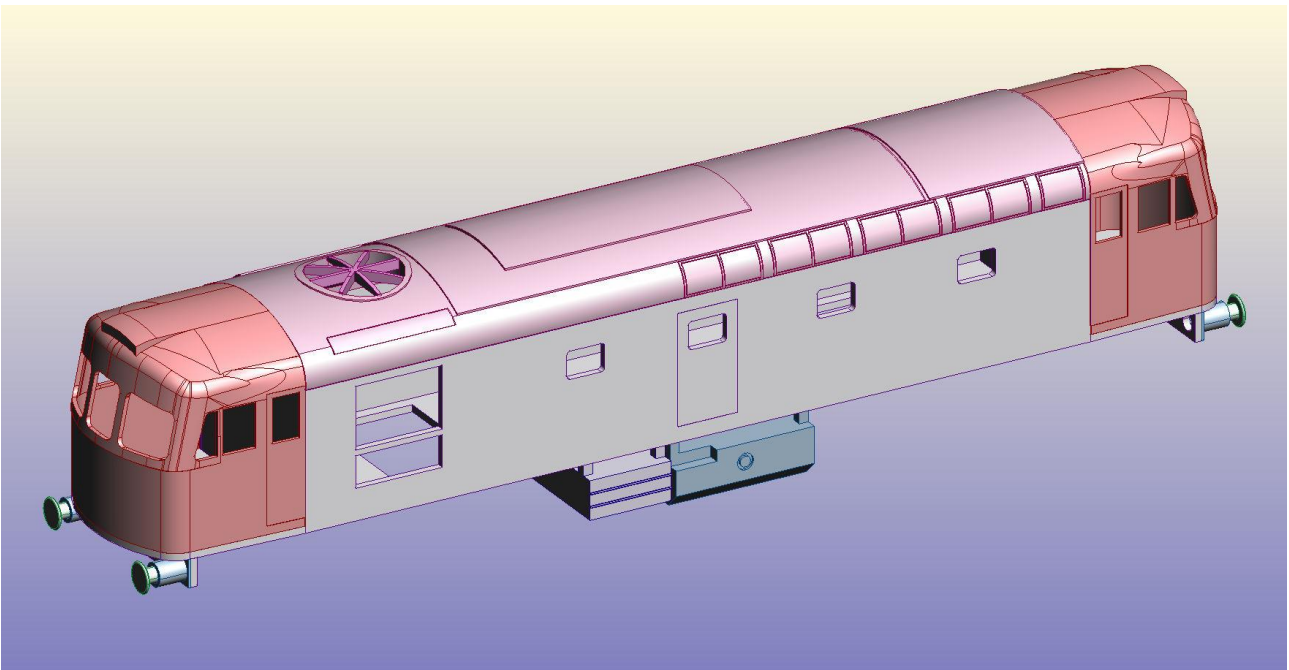
Next, glue into place the buffers and housings. If you want to insert your own buffers, you can drill out the etched hole in the bufferbeam to insert them. Warning, the Acrylic is very easy to shatter and as such if you do shatter one, let us know and we'll happily send replacements with the hole pre-laser cut for you inline with our standard replacement parts policy detailed in our terms and conditions.



Next glue on the battery box and fuel tank. They both sit in the middle of the model. If you're not sure, we'd recommend test fitting the bogies and using that as a guide and or a suitable GA drawing (there are multiple out there)



Next test fit the roof. This will just slide on and is formed of two parts to allow for battery access and accessing electronics.



The last jobs are to fit a grill to the side panels (we can supply this to you for a small fee to cover the material) and the roof fan grill. It has curved sides so its worth making sure it is located correctly. The bogies can then be screwed on using the included bolts and couplings slide into place.

Your Model(s) 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.