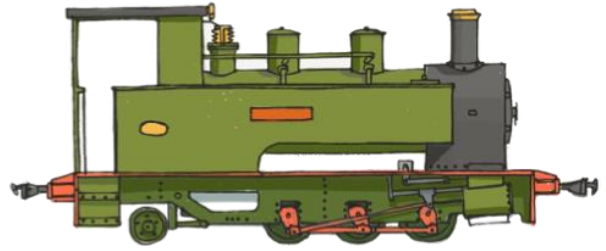


Bowaters MODELS

specialising in distinctive 16mm models



Bowaters Models – BME-010 Instructions



Requires

- Glazing Material

Required Tools

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

Prototype Information

'Conway Castle' was originally built for the Royal Navy for use on the Royal Naval Armament Depot at Ernsettle, Devon. It entered preservation in the early 1980s. The FR have rebuilt the engine with a more powerful engine and extending the wheelbase as well as a completely rebuilt body due to lessons learnt with its sister engine 'Upnor Castle'. It entered service in 1986. It was transferred to the Welsh Highland Railway in 1999 before returning to the FR in 2013 for a major rebuild. The engine is modelled in its pre 2013 rebuild condition.

About the Kit

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

Chassis Fitting

This kit is designed for a PDF Models Chassis which is included as part of your kit. This is assembled as per the instructions. Make sure the chassis works in the way you intend it before fitting to the model. Note, this kit is designed for either Manual control using switches (single speed) or using full Radio Control for which space has been left within the model.

Couplings

This kit is designed to make use of the Accucraft Chopper Couplings. These are glued onto the buffer beams using superglue. We strongly recommend using superglue to attach them. Height wise, these should be 25mm from the centre of the coupling plate to the railhead.

Instruction notes

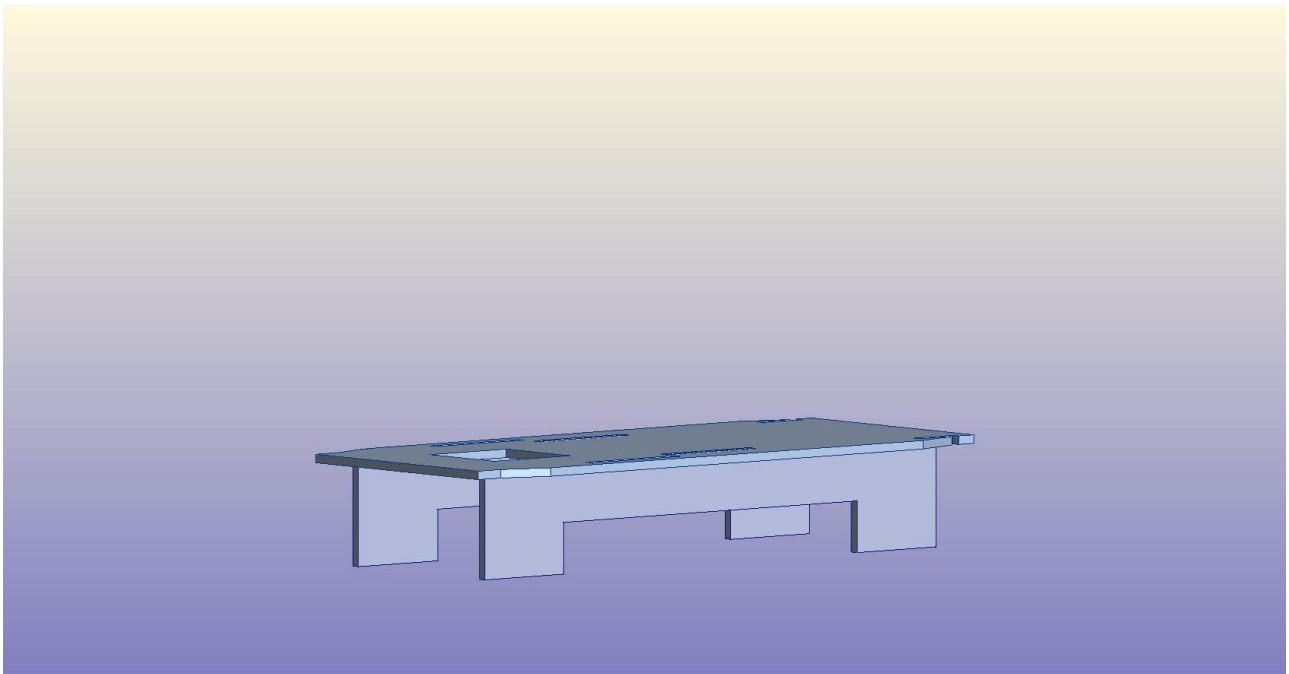
With these instructions, there are images which show various stages of the construction of the kit kits. They are of the digital test build for BME-010 which may not be representative of the kit you have brought. They are for reference purposes only.

Painting

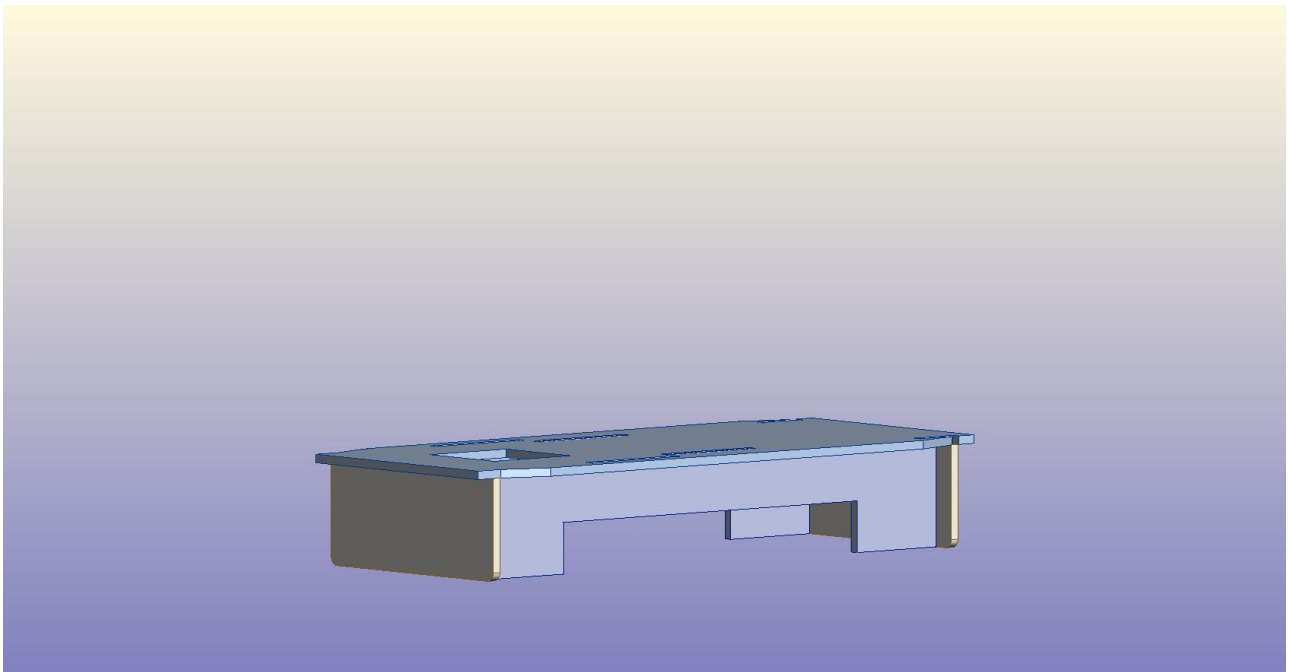
- Current paint scheme – FR 1990s Push Pull/Green and Cream

Please Turn over

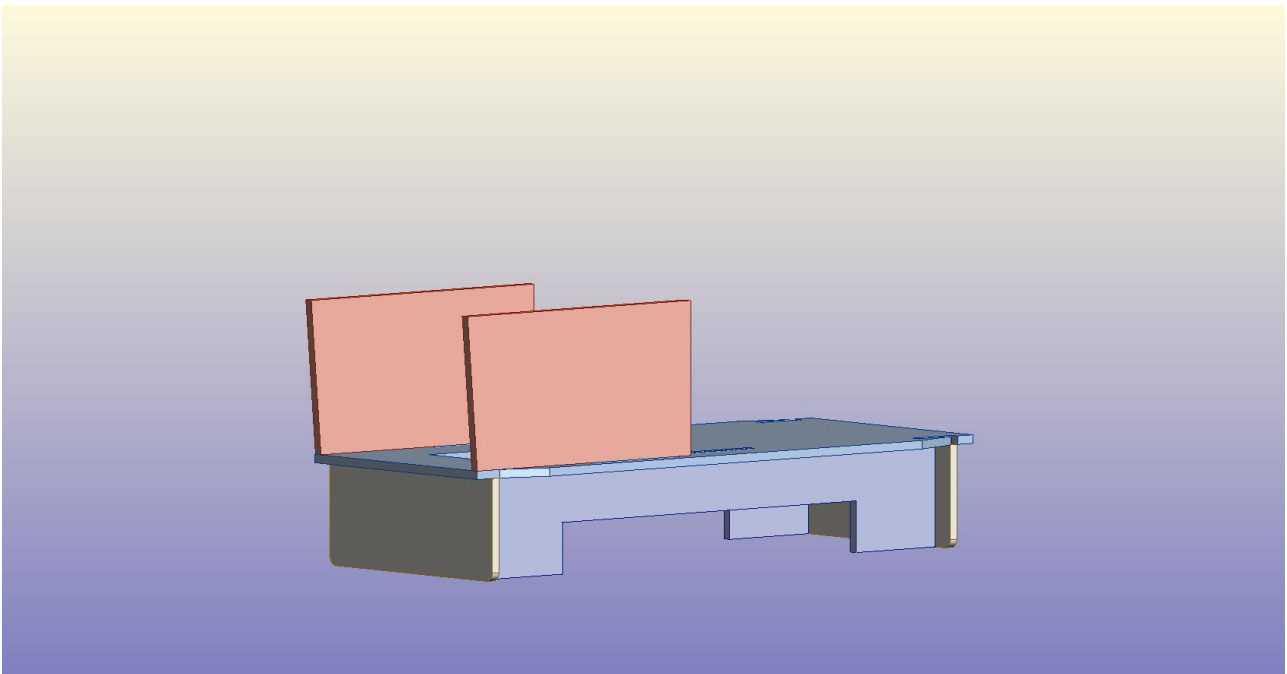
Please read though these instructions before beginning to assemble your
kit



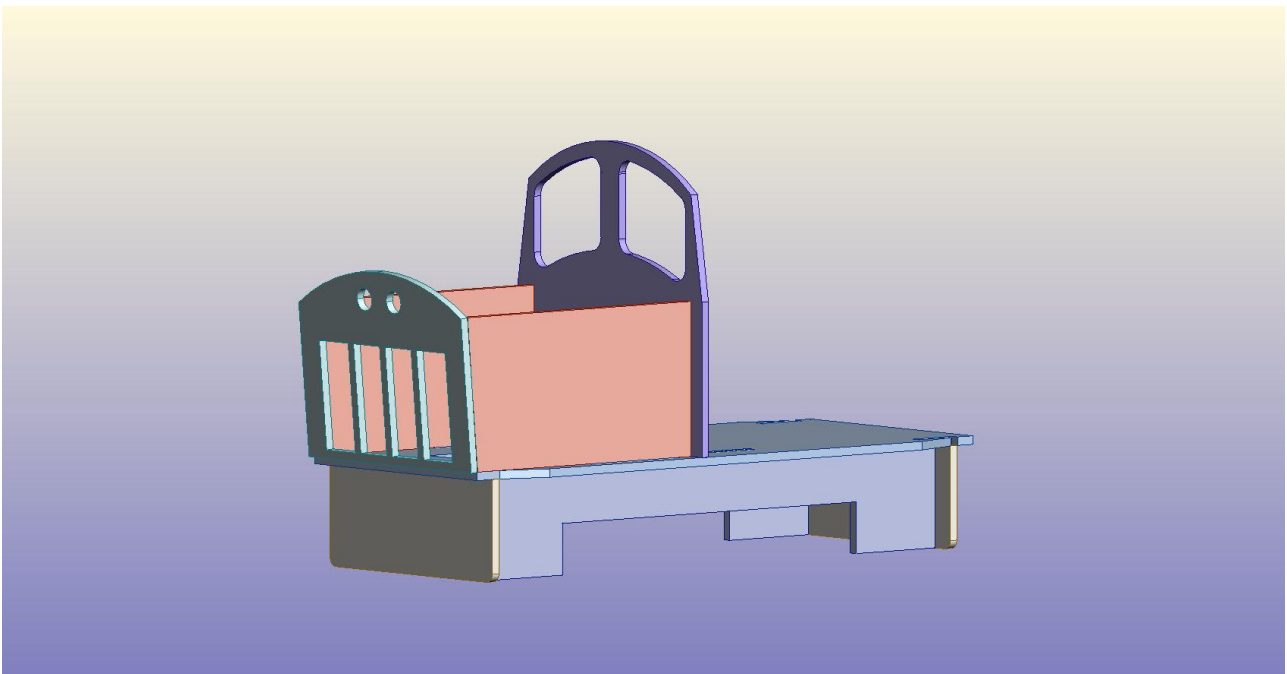
Start by assembling the chassis plate and sides together.



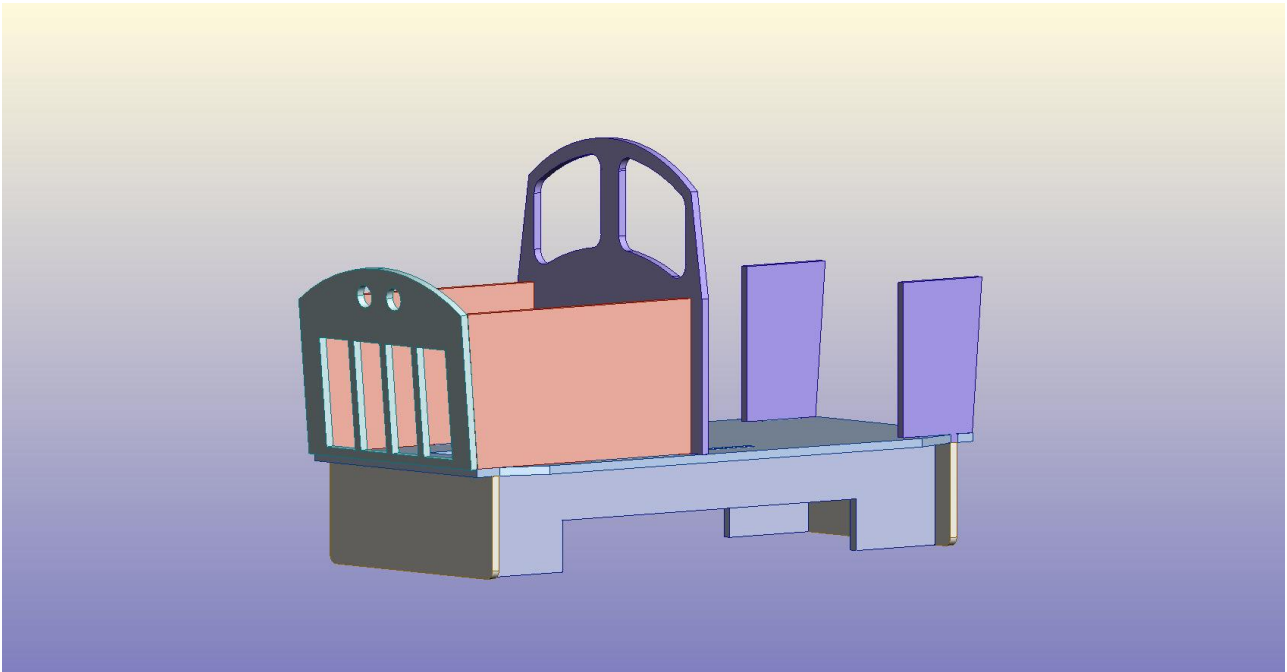
Next glue on the bufferbeams



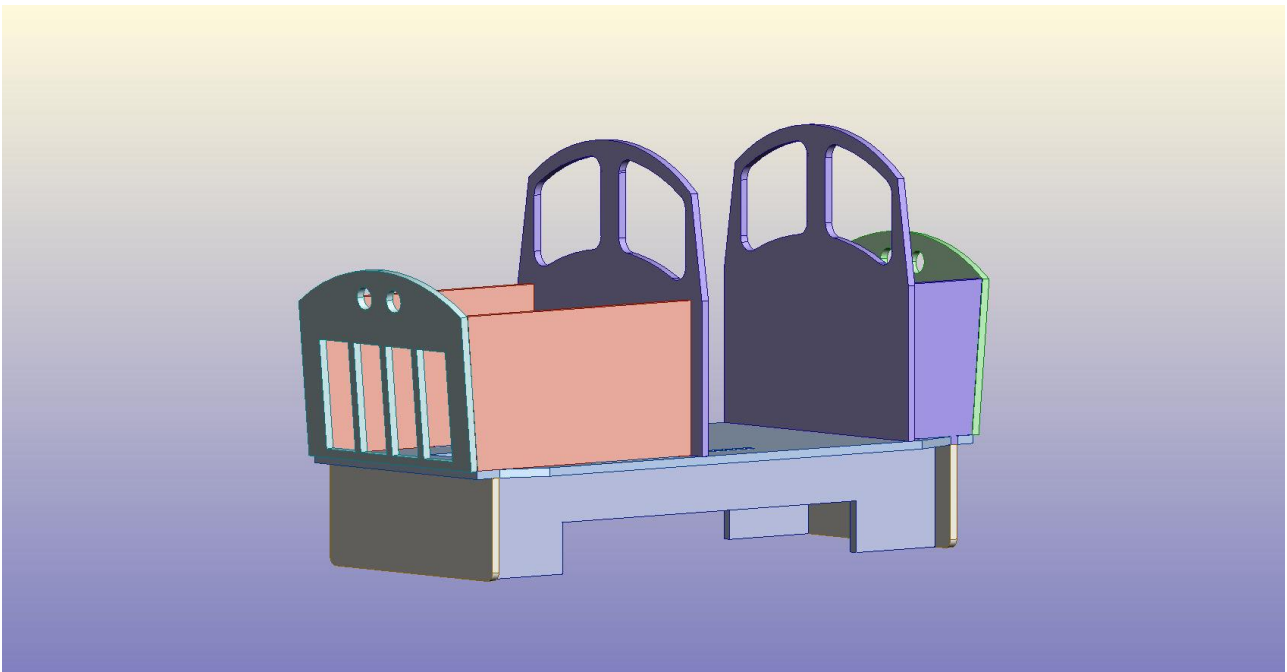
Now its time to assemble the bodywork. Start by attaching the long bonnet sides into the slots on the chassis.



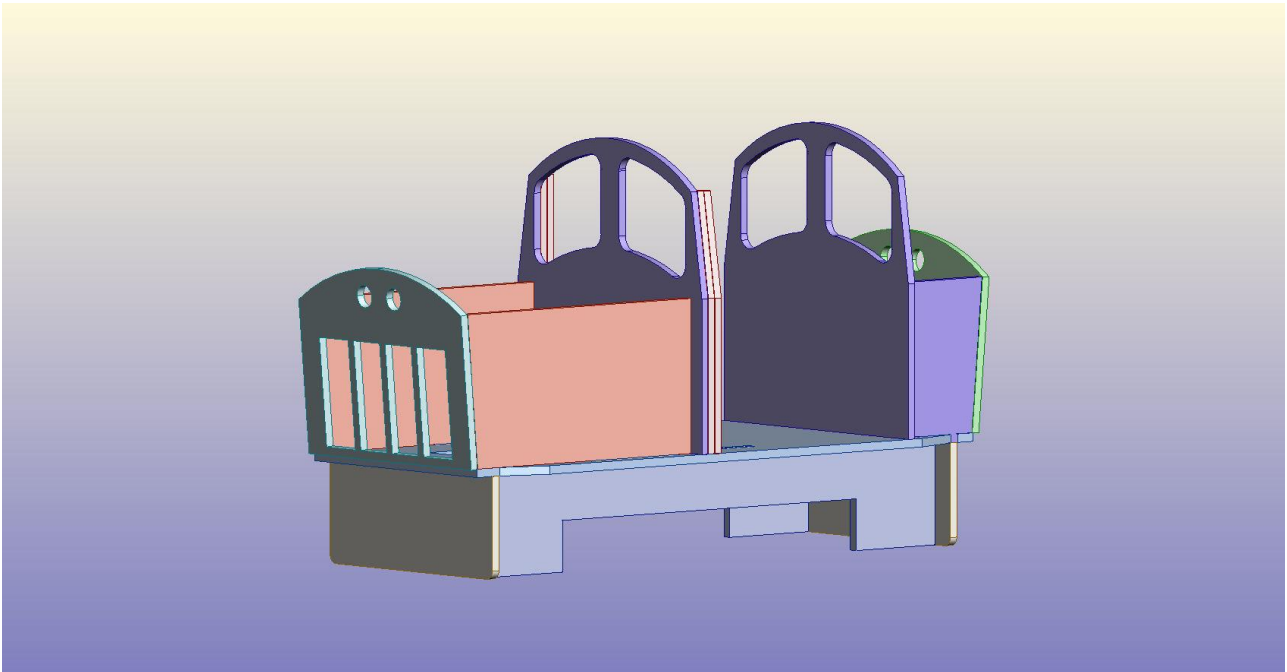
Next glue on the bonnet front and the cab front on the chassis.



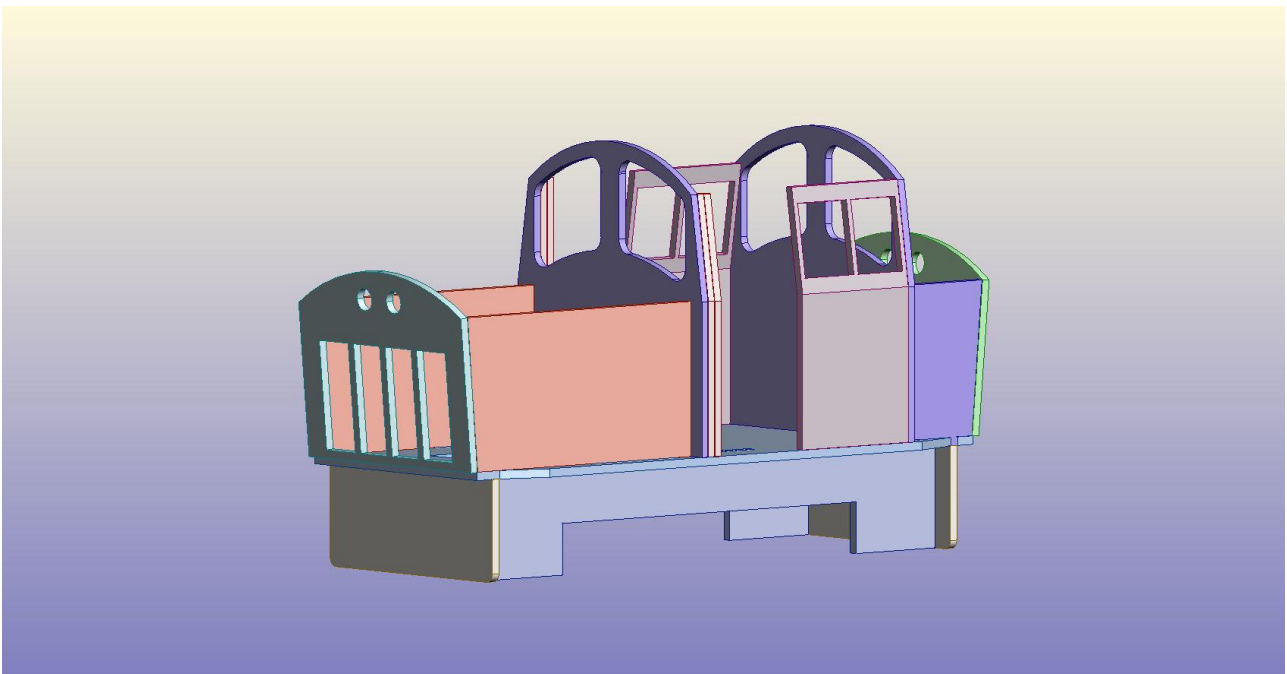
Next start on the rear bonnet. Start by gluing on the rear bonnet sides onto the slots on the chassis.



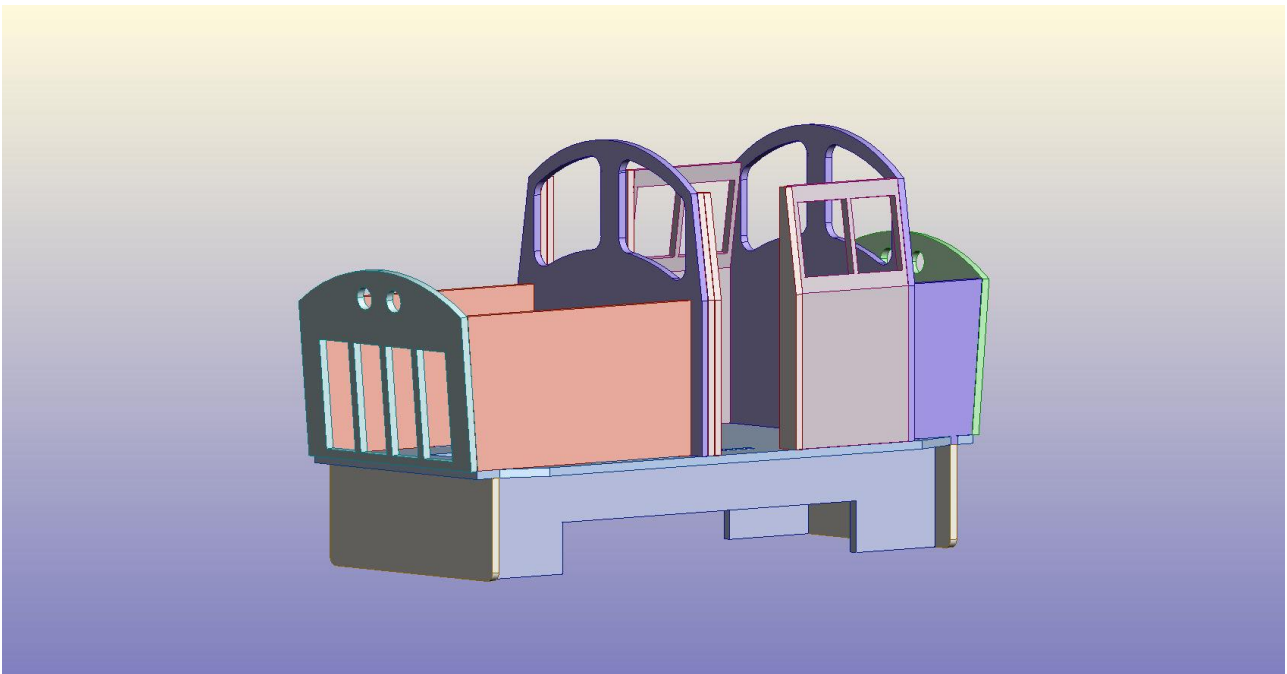
Next glue on the rear of the cab and rear bonnet's end section.



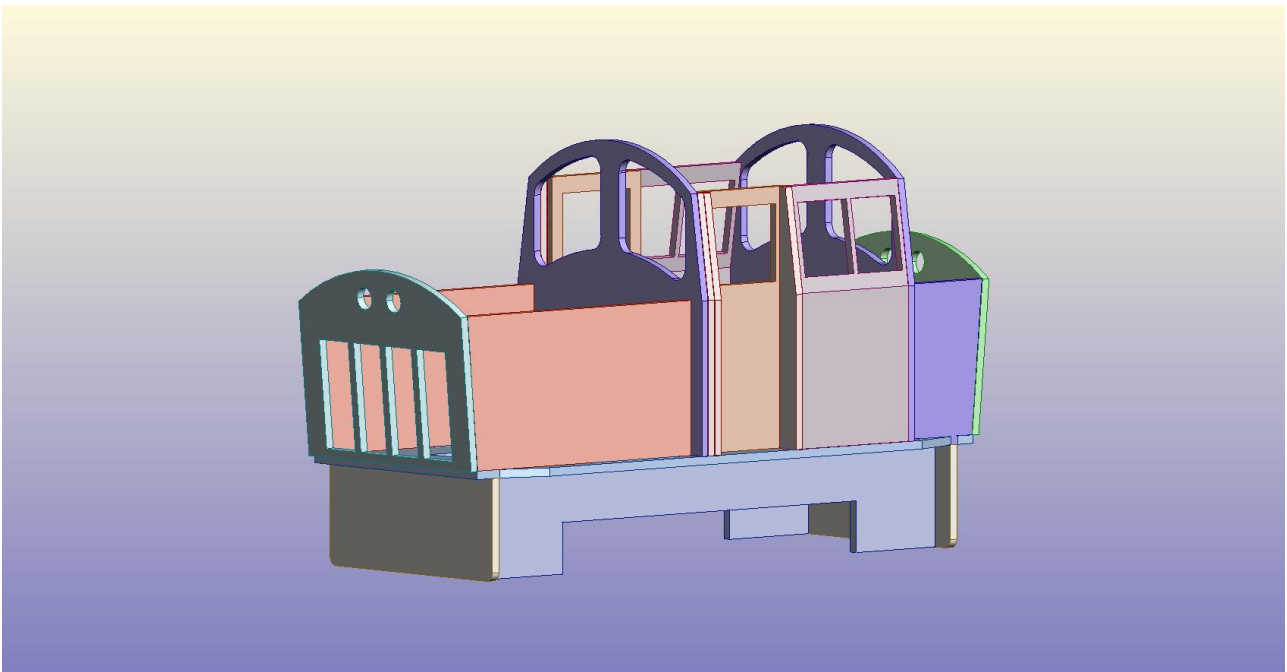
Now its time to assemble the cab. Start by gluing on the short sections onto the front of the cab on each side.



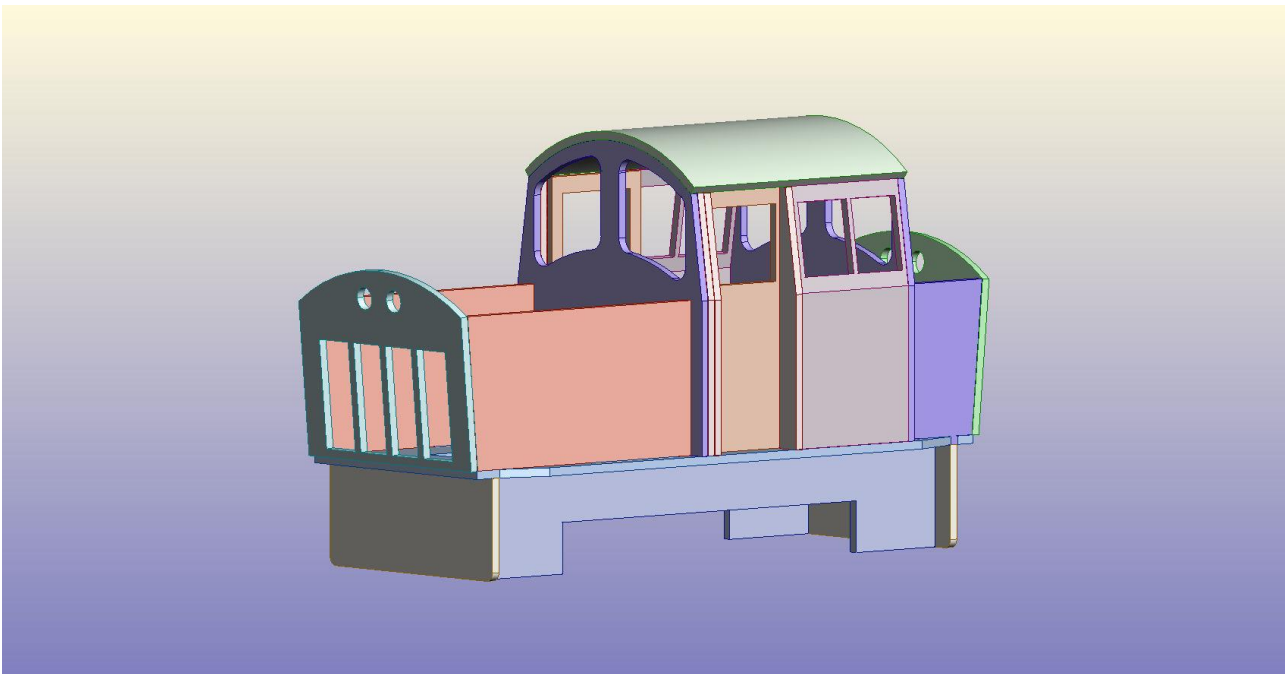
Next, glue on the larger sections on the rear of the cab. These are formed of 4 parts which are attached on a angle matching the cab outline.



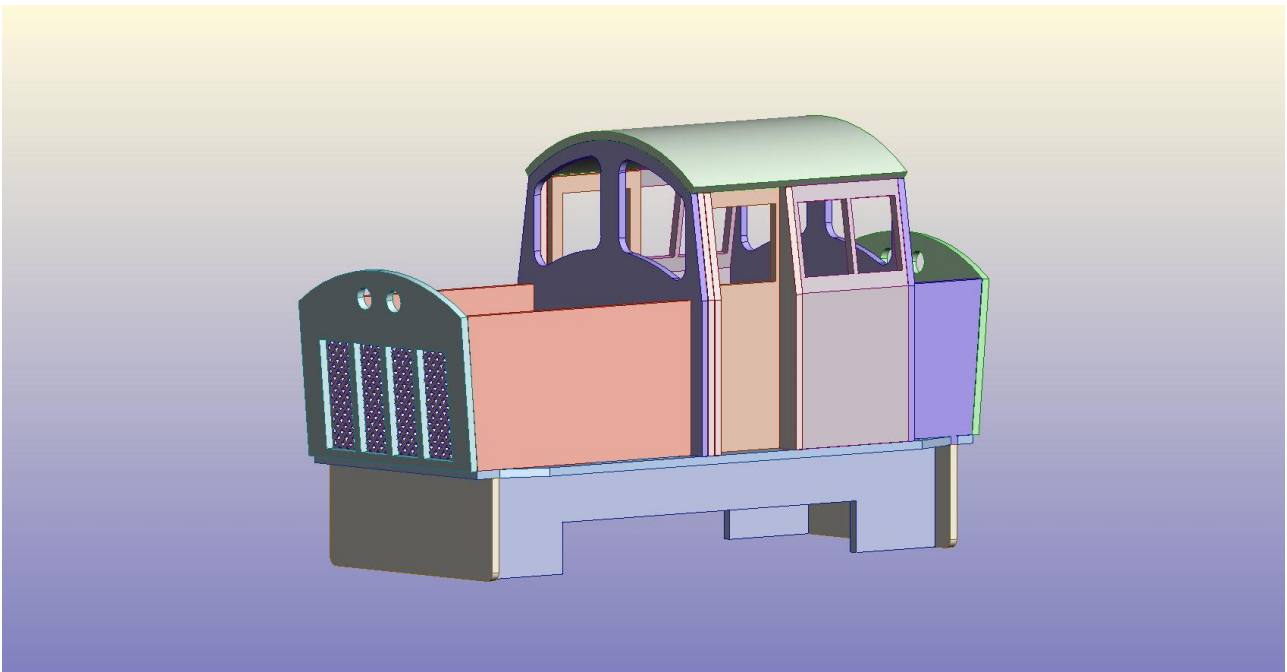
Now glue on the final cab section. This also forms the cab door inset.



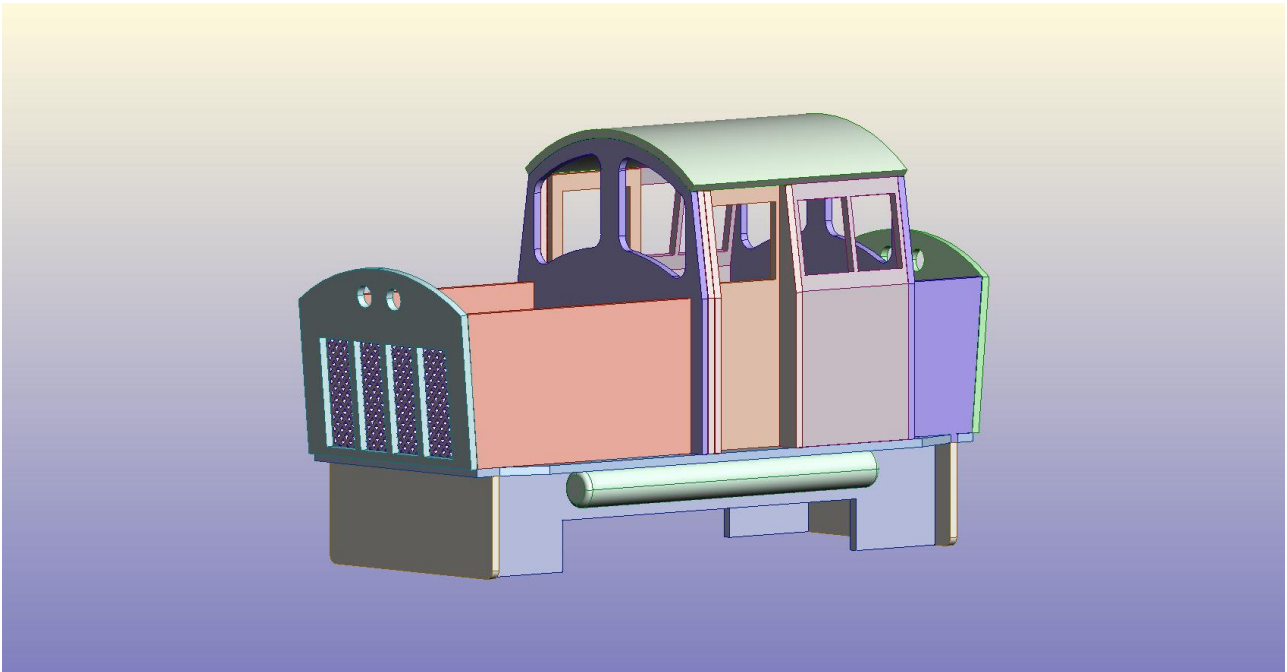
Now glue on the cab door which sits inside the cab sides.



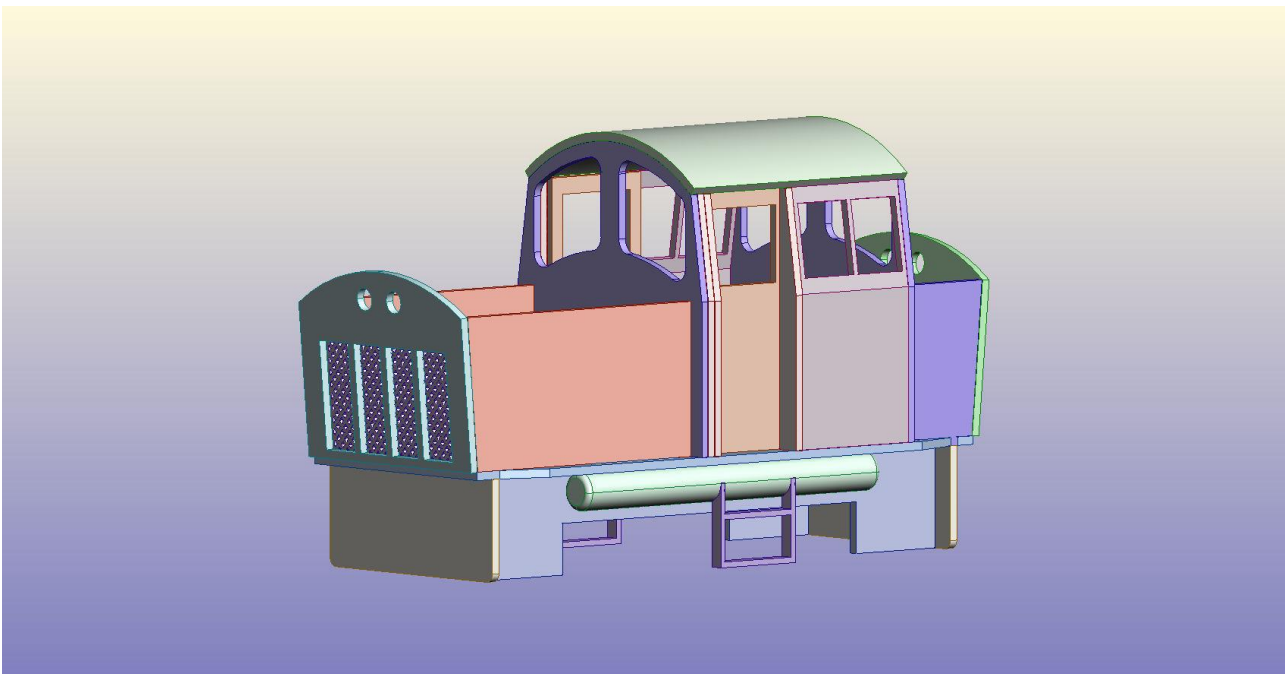
Now glue on the cab roof. This formed of plank sections which run the length of the cab.



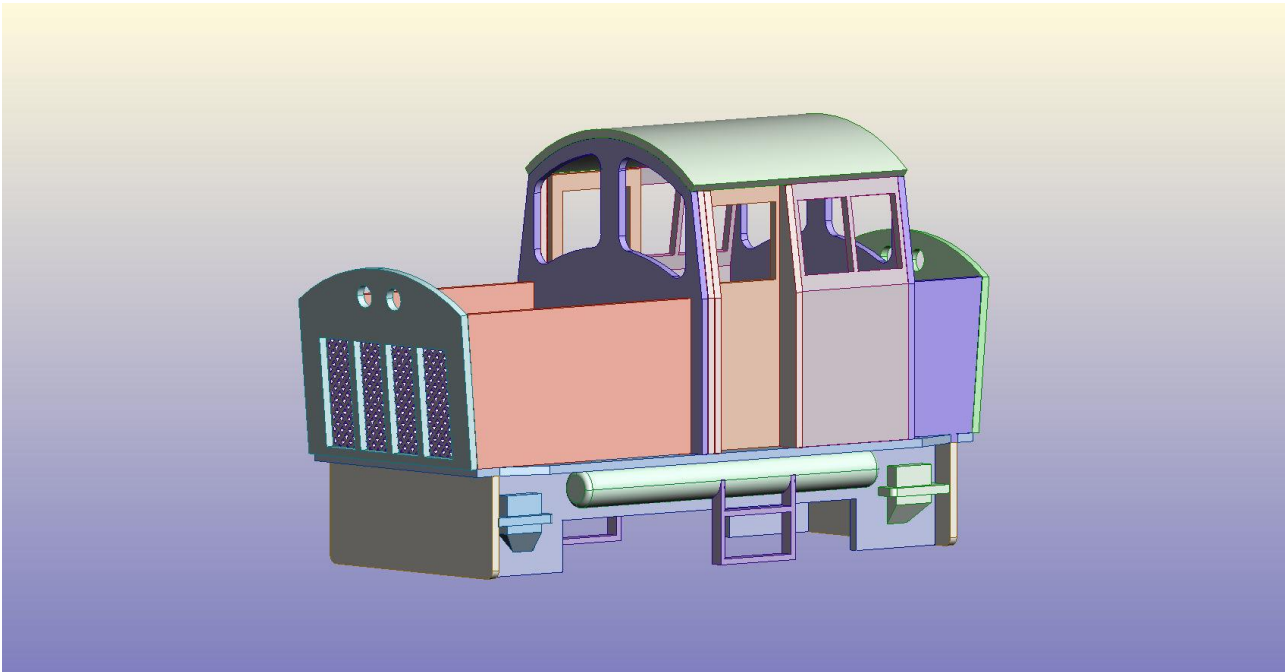
Now glue on the front grill for the front bonnet.



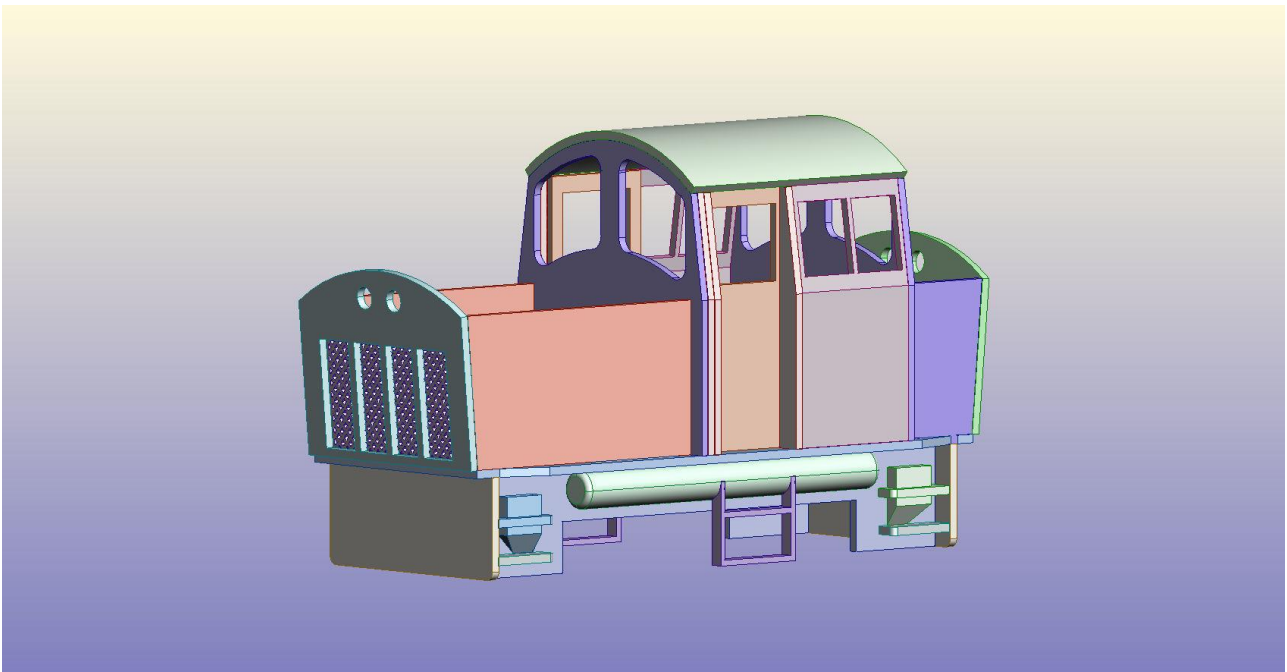
Now its time to start on the chassis sides. Start by gluing on the long vacuum tanks that run the length of the chassis sides.



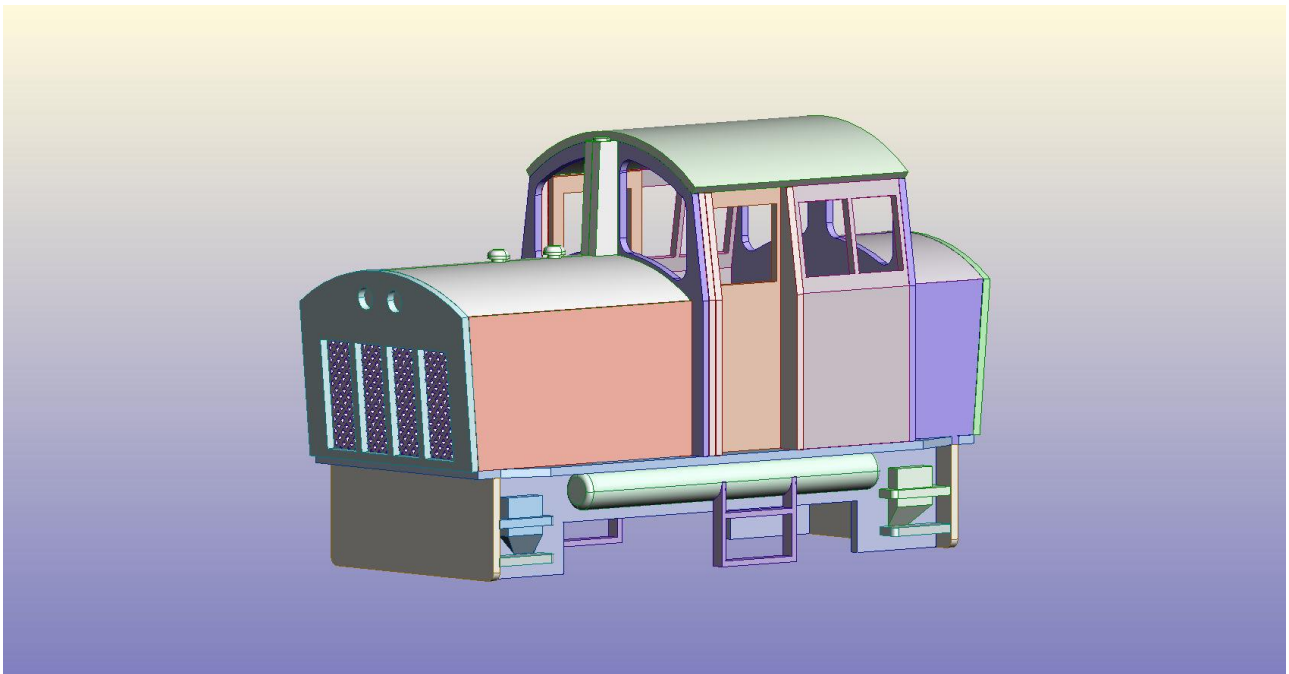
Next, glue on the cab steps which attach onto the vacuum tank and are level with the cab door.



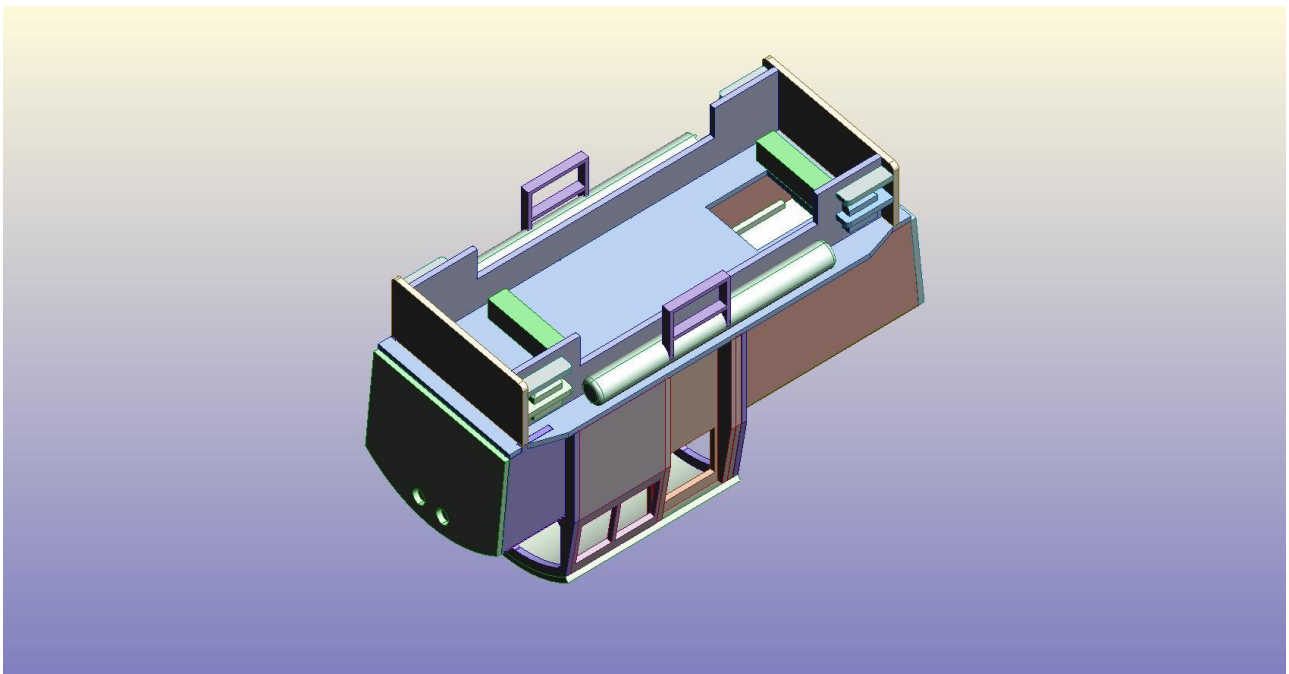
Now attach the sandboxes. There is one per corner with the chamfered sections being close to the bufferbeams. The steps on the sandboxes are level with the tops of the chassis side insets and back onto the bufferbeams.



Now glue on the second step per corner. This sits below the sandboxes in each corner.



Now you can place the bonnets in place to complete your bodywork! We recommend leaving both of these as removable to allow access for wiring and batteries.



When you go to mount the chassis on the body, place a chassis mount on each end of the chassis and use them to attach it to the body.

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.

Chassis Instructions



Start by laying out all the chassis parts to ensure you have everything.



Start by placing the bearings with the chassis sides. You may need to open these out using a 4mm drill bit.



Next assemble the driving wheel set. The cog goes into the middle of the chassis inside the gearbox housing. The axle will need cutting down if running on 32mm gauge (45mm gauge version shown).

This should be done once the chassis has been test assembled to know you have the right dimensions. It is at this time you will want to add the gears for the 4w drive system while assembling the wheelsets. The drive gear sits inside one of the wheels on each side and there is one per wheelset.

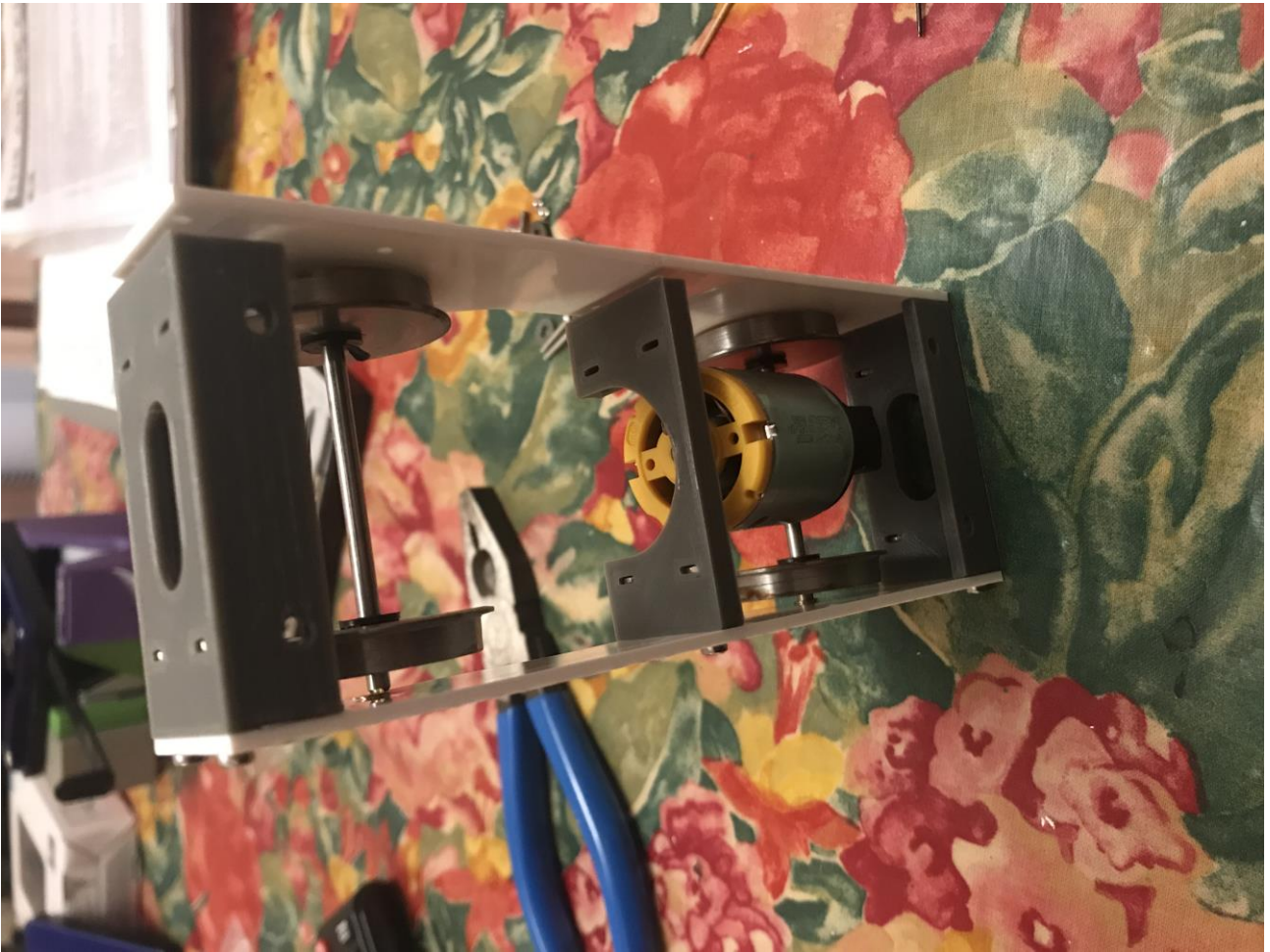


Start inserting the chassis spacers starting at one end and working your way along the chassis.

Shown is the old style of chassis with 2 wheel drive. On the newer 4w drive models, it is recommended that you turn the two end spacers so that the mounting holes are on the outsides of the chassis ends.



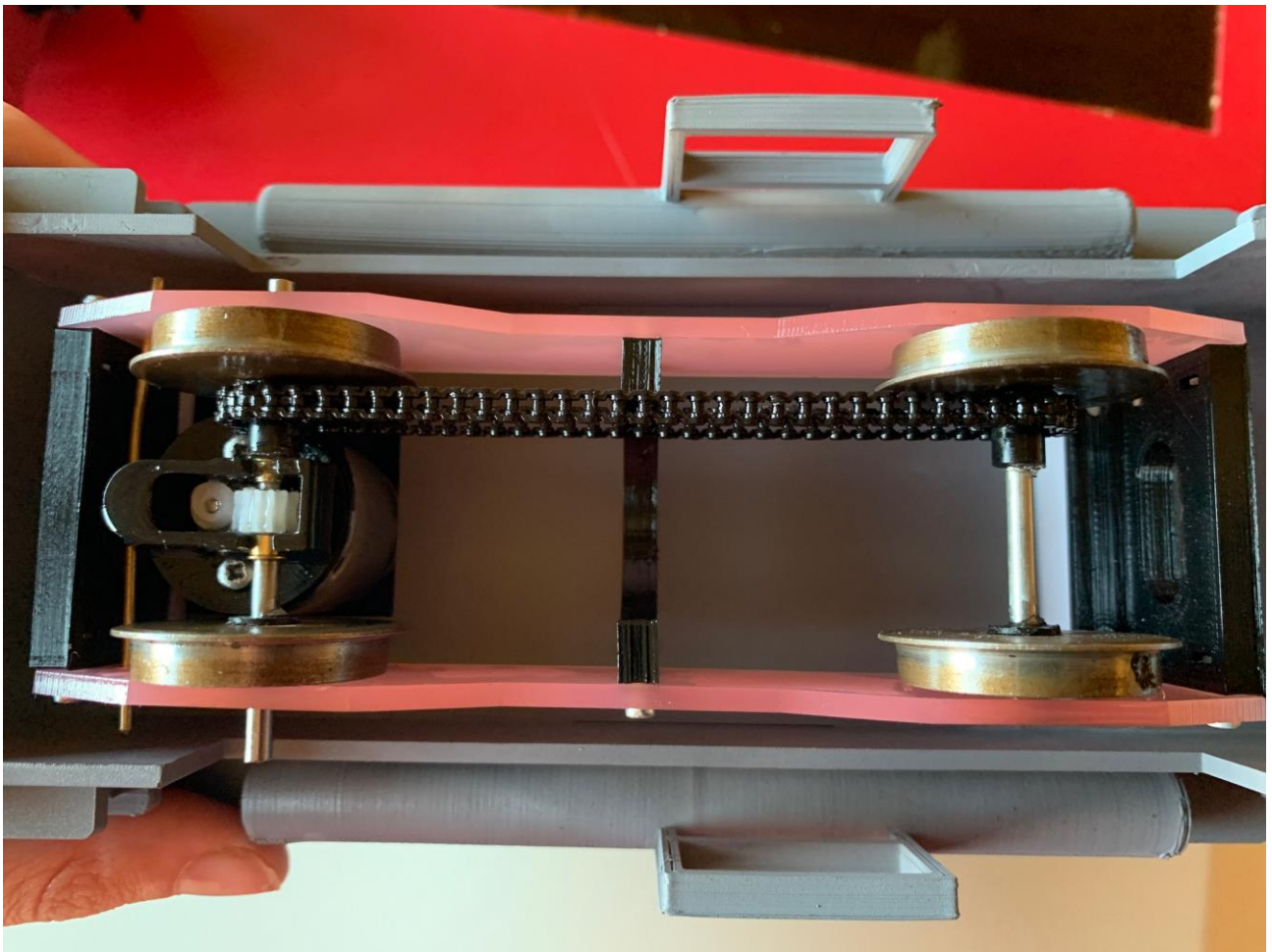
All 3 spacers shown on the chassis.



Now insert the wheelsets and the other chassis plate so you have a complete chassis.



Now insert the retaining wire so your motor is held in place and won't move. Shown above is the 2 wheel drive chassis. The 4 wheel drive chassis has the motor mounted vertically with the fixing holes on the very end of the chassis.



For the 4 wheel drive system, there is a cog on each wheel which sits on the inside of the wheels between the gears and one of the wheels. The chain runs between the two wheel sets and should be tight for maximum haulage ability