

BRAEMER MODELS

GREAT BRITISH MODEL KITS

1:32 Broughan 20t Dump
Trailer



Instruction Manual

1:32 Broughan Grain/ Silage Trailer

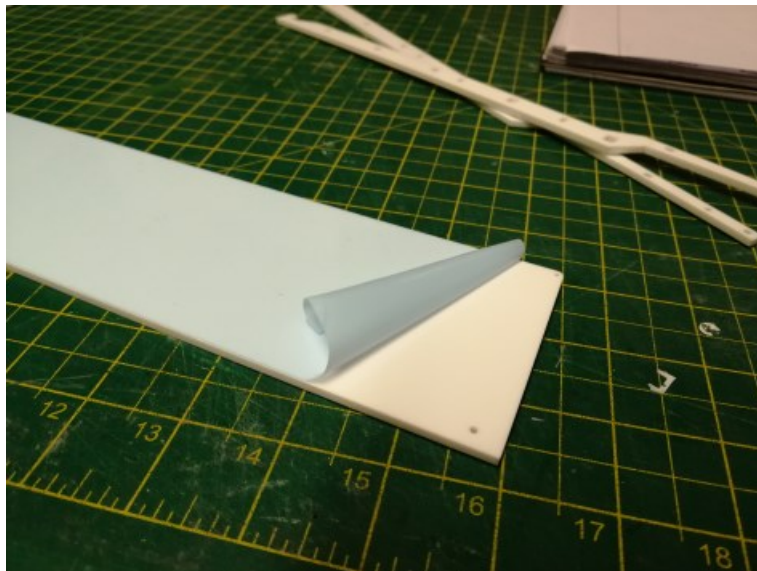
CLEAN ALL RESIN PARTS IN WARM SOAPY WATER

The silicone release agent used in the casting process will react with paint, it must be thoroughly cleaned off before painting.

This is a guide to using the kit. Care should be taken at each stage to make sure the model is going together correctly and any alterations that are not in the instructions should be carried out.

Glue: Recommended glue is a good quality super glue such as Gorilla Super Glue. I use the Blue Lid Gorilla Super Glue which is readily available from most hardware stores including B&Q and Screwfix. It provides a strong bond, the acrylic around the bond will snap before the bond breaks.

Paint: The instructions will suggest the best point to paint components. A good quality automotive primer or plastic primer followed by automotive acrylic is recommended. Brands such as Hycote or Halfords are likely to be problem free and provide a good finish to your model while being readily available.



Read all the instructions before building to avoid any unexpected surprises

Step 1: To start with I recommend cleaning the resin parts (wheels and tyres) in a strong washing up liquid solution. Remove any flash from the resin parts too, this is excess resin left over from the casting process where resin is poured into the mould.

Then remove the plastic backing from all acrylic parts and sand back the surface with a fine grit sand paper 220 grit or less. The laser cutting process causes a slight raised edge on most parts that will inhibit strong adhesion. By sanding these edges off a stronger glued bond can be made and the surface of the plastic is improved for paint adhesion. Sharp edges can give a thin paint application that shows as white edges in the final paint.

It is important to take care when sanding as Acrylic is a brittle material and can easily snap. If something does break simply line up the crack lines and glue back together, leave 24hrs before using the part again so the glue can set firmly. The same applies to any resin parts.

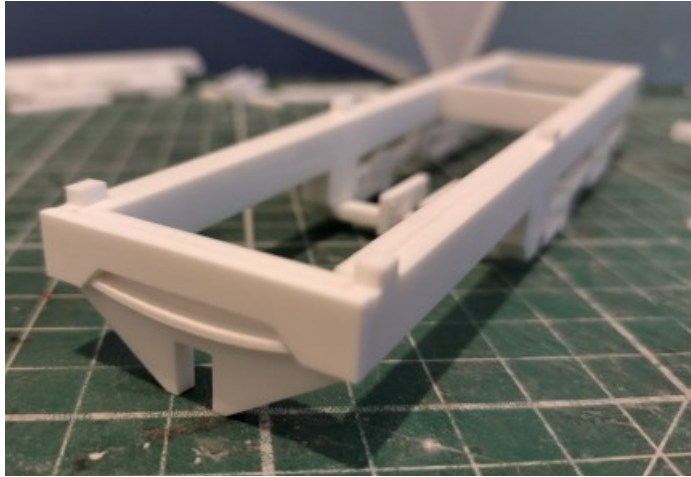


Step 2: Glue the two halves of the chassis rails together. 16 to 19 aligning the pivot hole at the rear and the dropped mount in the middle. Take care if using superglue, the bond will be almost instant so make sure they are aligned as you glue. Ensure you glue them opposite sides to make the offside and nearside chassis rail

Step 3: Build the tipping member by gluing the pivots 22 to the member 20 centrally but with a 5mm gap. This glues in the next slot on the chassis.

Step 4: Glue the cross members of the chassis to one side of the chassis rail. 18 glues into the recess at the front of the chassis. The tipping member is next in the drop down slot. Ensure the single holes are to the back and four small holes to the front, the brackets should be facing up as well. 21 fits between the suspension and 27 at the end. Ensure all members are glued perpendicular to the chassis rail.

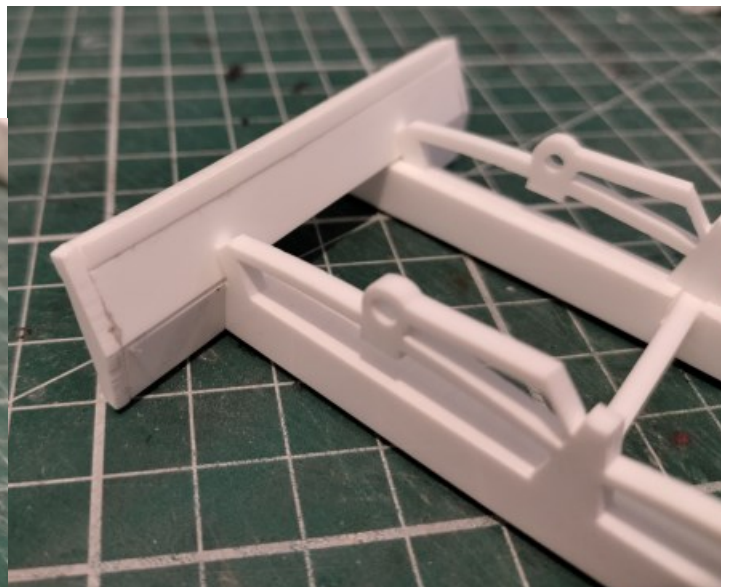
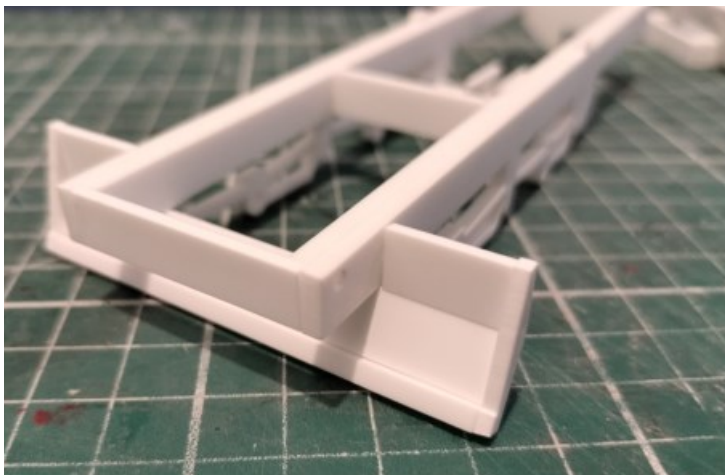
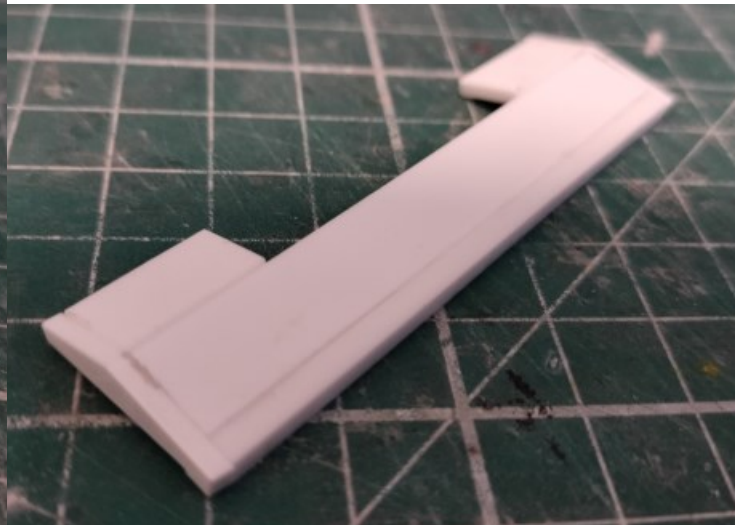
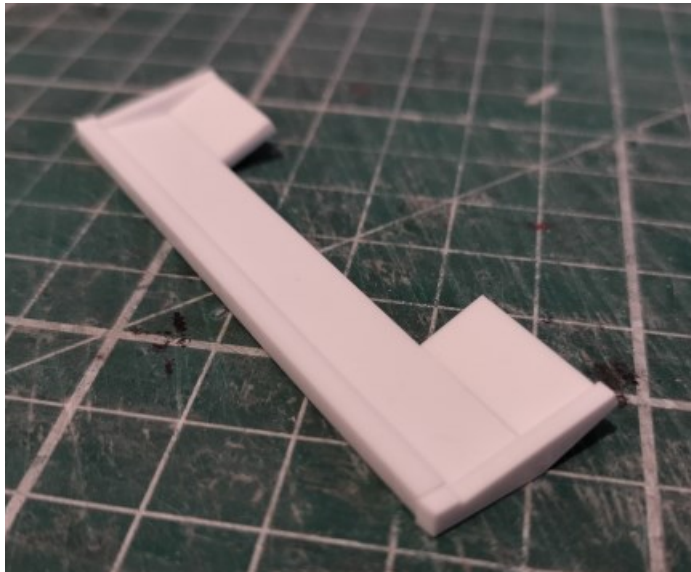
Step 5: Bring the two chassis rails together by gluing the members in the same mirrored slots of the second rail.



Step 5B: Glue the spring hanger 17 to the front of the chassis as illustrated

Step 6: Build the rear bumper/lights. Glue the bumper 38 to the main plate 13. Glue the end caps 14 to either side of the assembly as illustrated. Finish by adding the light units 15 to either side on the top edge of 13 with the engraved sides pointing to the rear

Step 7: Glue bumper assembly in place on the chassis. It should be a snug fit between the chassis and the light units and the rear of the suspension is cut to match the required angle so simply push up against this until the glue dries.

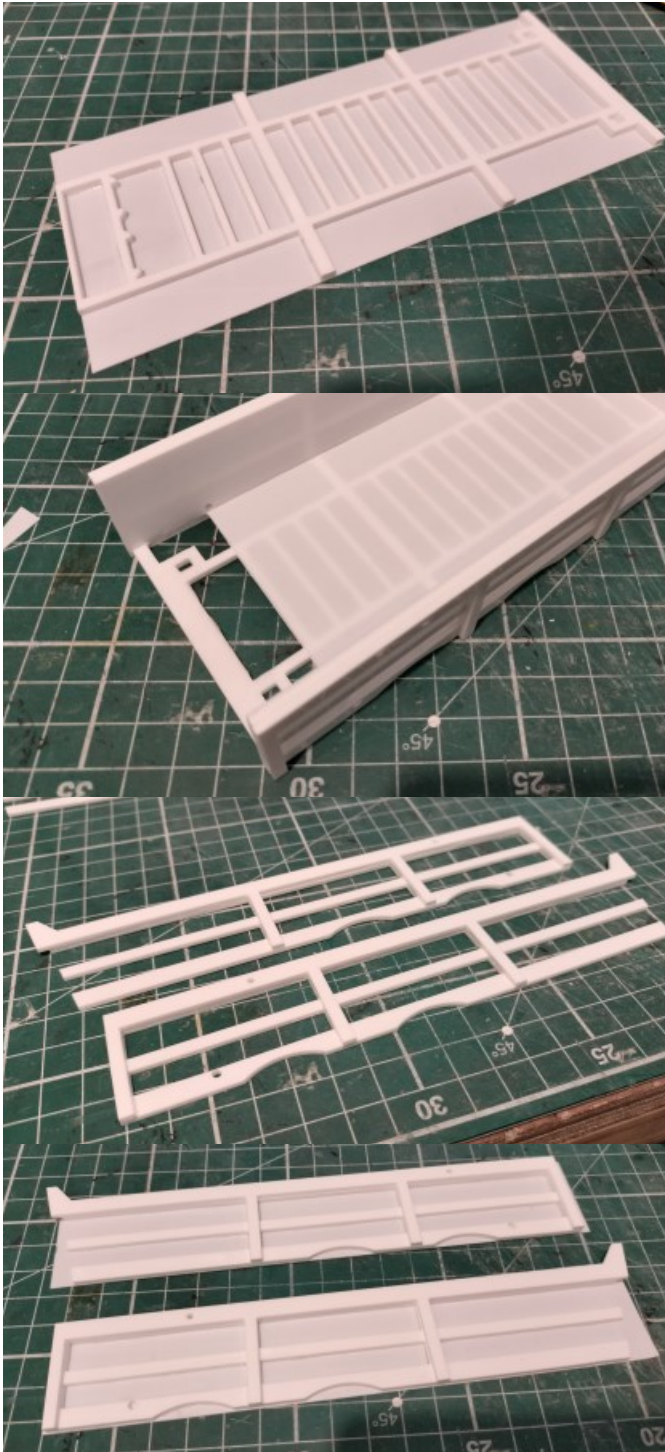




Step 8: Build the drawbar. 2x 23 glue back to back. There are then 2 tow eye options (24) to glue in the front recess depending on the tractor you wish to hitch too.

Step 9: Fit the drawbar. Loose fit the axles and wheels to the chassis. Select the tractor you wish to hook the trailer too. Place the drawbar eye on the tractor hitch, position the drawbar in the trailer as shown and glue a pin in the appropriate hole on the drawbar hanger. This will allow the trailer to sit correctly on the tractor.

The drawbar shoe 34 and hose holder 35 can also be glued in place now or left off, painted separately and added later.



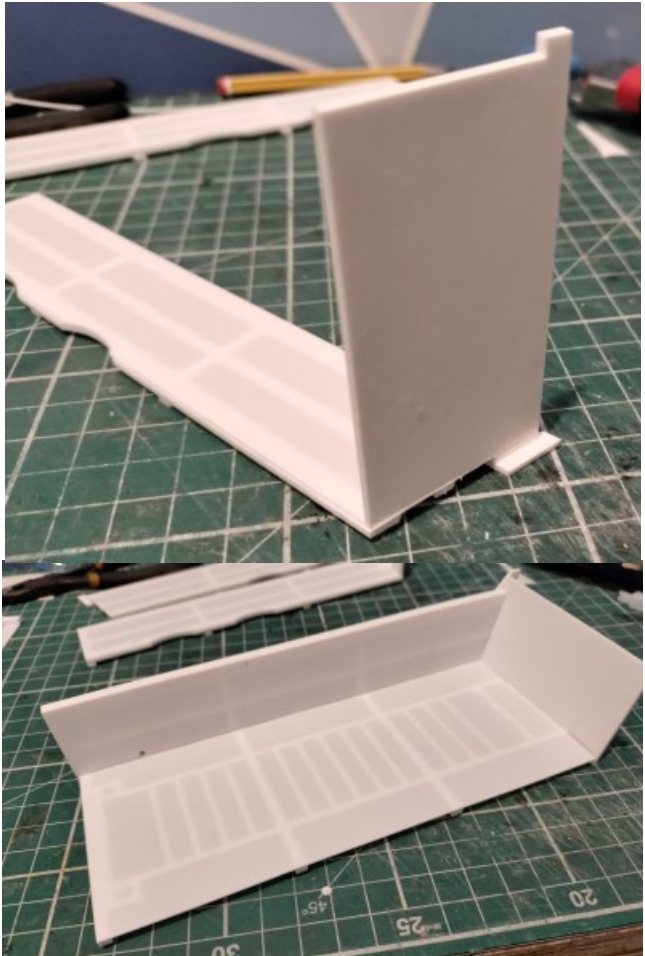
Step 10: To begin constructing the body glue the main floor profile 3 to the 0.5mm floor sheet (A). The sheet is cut oversize so will need trimming down with scissors or a craft knife to sit flush with the main profile on all four sides. If building the magic door trailer the sheet needs cutting much shorter. It should reach to the last bearer leaving the remainder clear as illustrated (Don't bin the scrap plastic, you'll need it later).

Step 11: Build the sides by gluing 1 to 2 and repeating for the other side. ENSURE you glue them opposite ways around to make the two sides. Dry fit first to check.

Step 12: Glue the thin 0.5mm strips (B) to the back of both sides and trim where necessary.

Step 13: Holes in the sheet will need making. This can be done with a small drill bit or by punching through with a craft knife. If building the magic door only the bottom holes need making, if building the up and over door only the top need making. You can fill the unused holes to give a better finish. We'd recommend Revell Plasto filler.

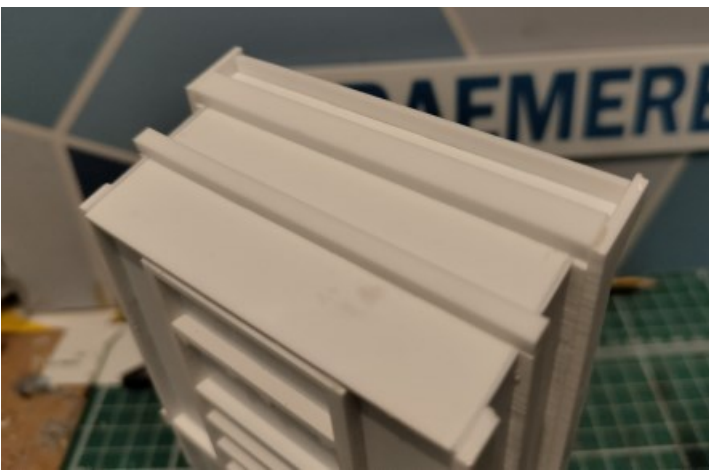
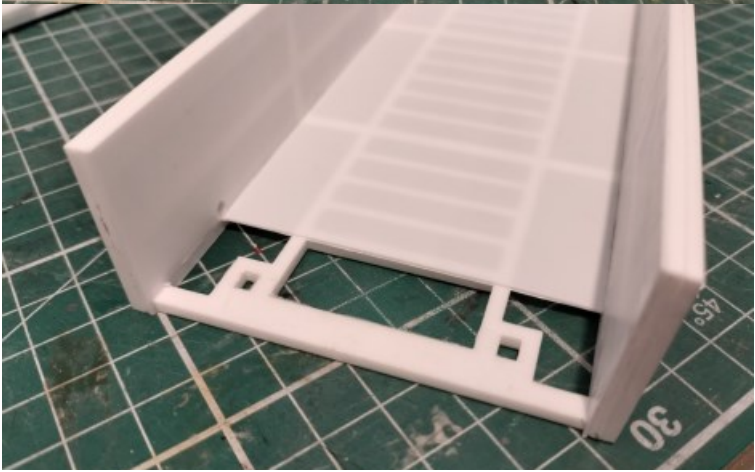


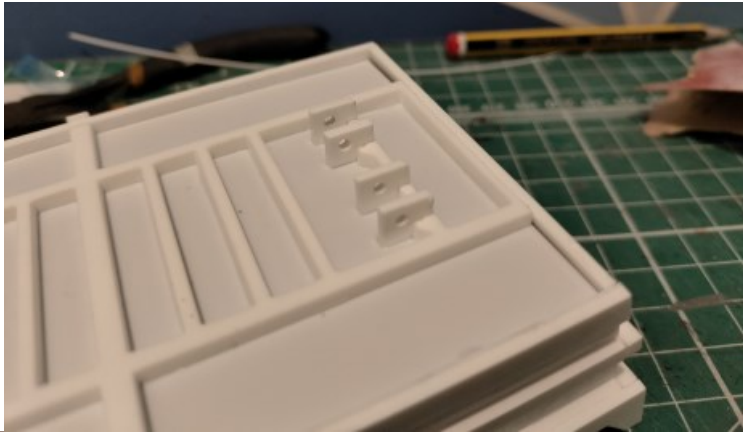


Step 14: Glue the front 5 to one of the side sheets. It glues with its edge to the flat of the side. The top hat sits on top of the side as illustrated. The bring the floor into place. This should sit flush with the bottom of the side, again it's edge gluing to the flat of the side. The second side can then be brought into place to complete the body shape. Ensure everything is square and neat before proceeding.

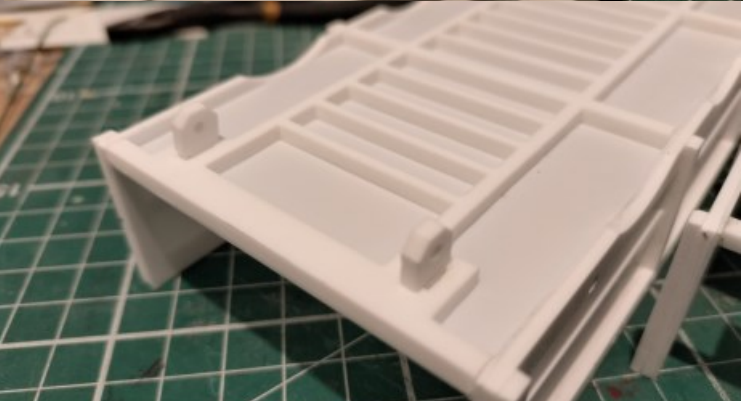


Step 15: To complete the front the following details are added. Across the very top of the rock board the thin strip 40 is glued in place at an angle. Moving down 6 is glued inline with the top profiles and moving further down 7 is glued inline with the middle profile.





Step 16: Add the pivot points to the body. Four ram pivots 40 glue to the front of the floor. They sit against the notches in the body with the holes located pointing to the rear. The main body pivots 4 glue into the two cut outs at the back as illustrated, this is the same for both tailgate options.

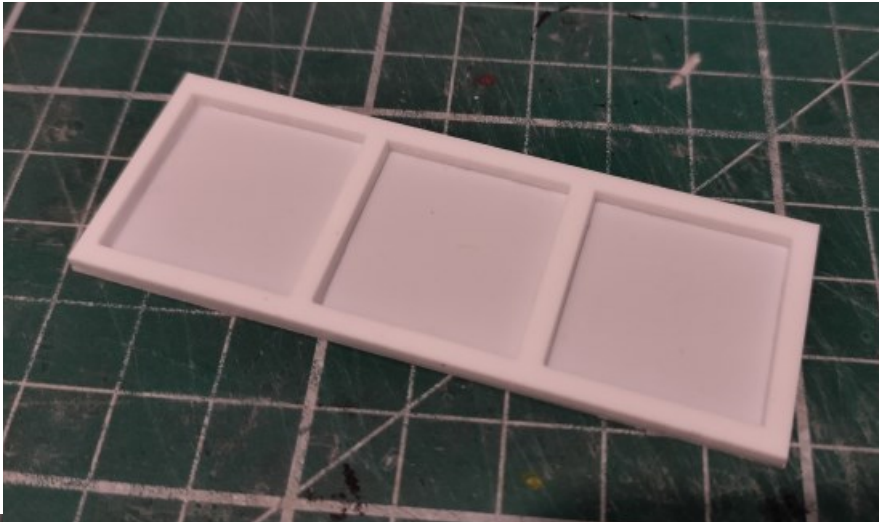


Step 17: The body is finished off with mudguards and underrun bars. The mudguards 39 are glued at an angle 3mm forward of the front wheel arch and 3mm rearward of the rear wheel arch.



The underrun 37 have two bracket 36 glued at either end 8mm in from the edge. Once assembled they are glued to the body flush with the side and inline with the front.

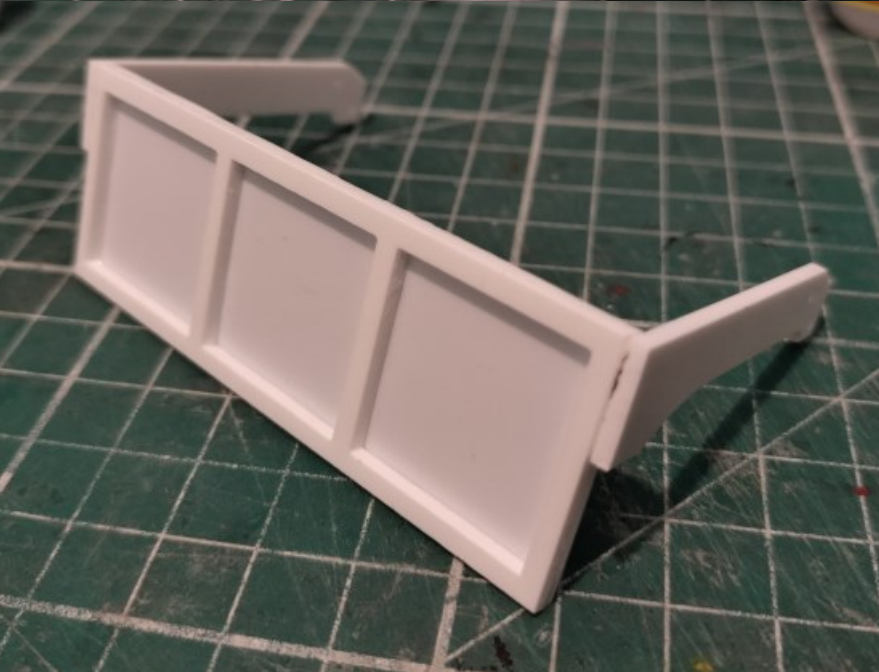




Step 18: There are two tailgate options, for the magic door skip to Step 18B.

For the up and over door start by gluing 12 to the small 0.5mm sheet and trim as appropriate.

Then glue the side arms 11 in place. They attach with the flat face gluing to the edge of the main door inline with the top edge.



Step 20: The parts are now ready for paint. I would recommend starting with a plastic primer, I used Halfords Grey Plastic Primer but a red primer may also be suitable. This helps bond to the acrylic parts while also levelling everything to the same colour. Once the primer is dry I have used an automotive paint. Broughan supply trailers in a wide variety of colours, examples below are all painted in Halfords aerosol colours. Ford Sunburst Red, Ford Electric Blue, Volvo Dark Grey 228 and Gloss Black. These are not an exact match but make for an affordable option. The closest looking RAL colours are as follows.

Green—RAL6018 Yellow Green

Blue—RAL5015 Sky Blue

Red—RAL3020 Traffic Red

Grey—RAL7005 Mouse Grey

Black—RAL9017 Traffic Black

I can't guarantee any of these colours are exact matches for those used on the real trailer.

Rims, Front Mesh, Hose bracket and Drawbar Shoe have all been painted with Hycote Aluminium Effect. Any Silver paint is suitable.



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Step 21: I would recommend applying the decals next as the individual parts are easier to hold before final assembly. To apply the decals simply cut each sticker from the larger sheet using a pair of scissors. The closer you cut to the edge of the text the better the final effect will be. Then peel of the backing paper to reveal the clear decal and stick in place on the model as desired. A small drop of water over the area you are placing the decal can help with positioning. Once positioned the water can be pushed out from underneath and dried with some tissue.

The reflective tape can be cut (with a knife or scissors) from the supplied sheets of white red and yellow in 2mm length and stuck to the model as desired using the above methods.



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Step 30: Paint and glue any remaining ancillary items such as the pipe holder, drawbar shoe ladders and mudflaps. If you have painted the mesh silage extension glue this in place. Take care when gluing painted parts as superglue will fog the surrounding paint. A clear glue like UHU or Deluxe Materials Glue 'n' Glaze is better for this job.

Finally push the 2mm steel axle into one of the rims, thread the axle through the holes in the chassis and push the other rim on to secure. Use the black straw to make spacers if necessary and a little drop of glue will help keep the rims on the axle. Check that the tyre tread is running the right way!

The model is now complete and ready for harvest, sit back and admire your creation, great work!



