

BRAEMERE MODELS

GREAT BRITISH MODEL KITS

1:32 KTwo Duo 1200 Muck Spreader



Instruction Manual

1:32 KTwo Duo 1200 Muck Spreader Model Kit

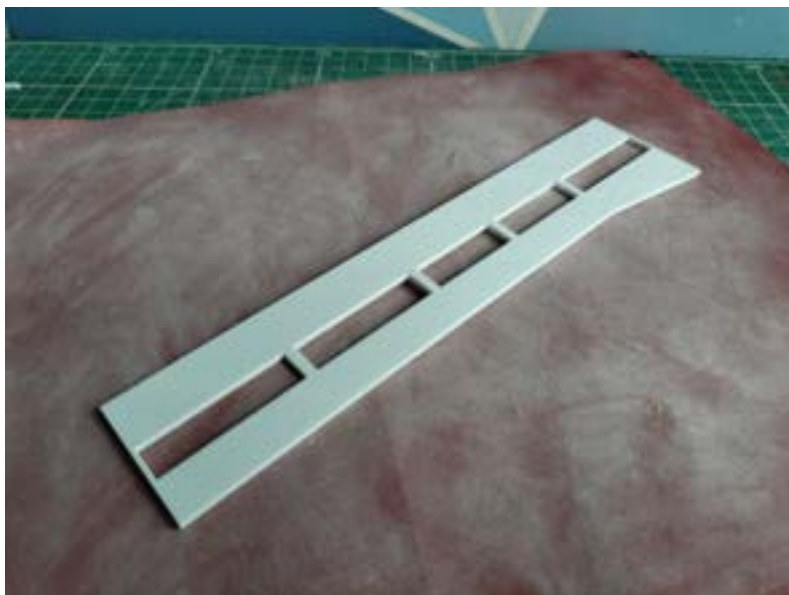
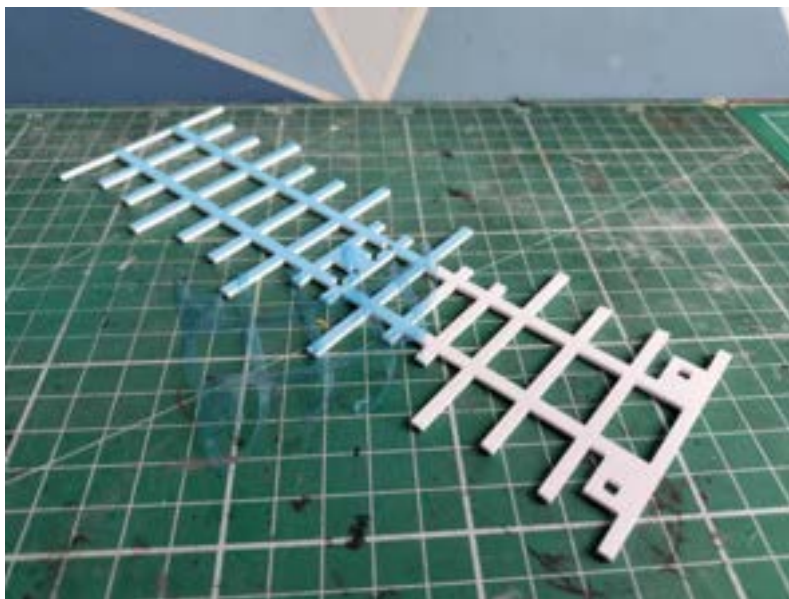
CLEAN ALL RESIN PARTS IN WARM SOAPY WATER

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.



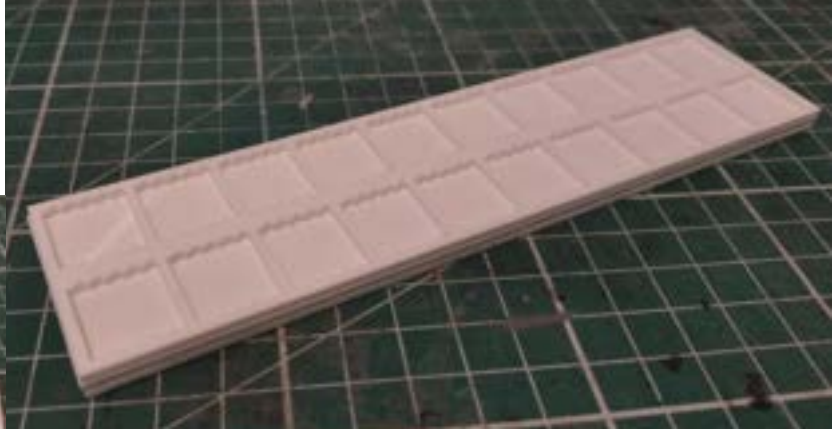
Read all the instructions before building to avoid any unexpected surprises

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.

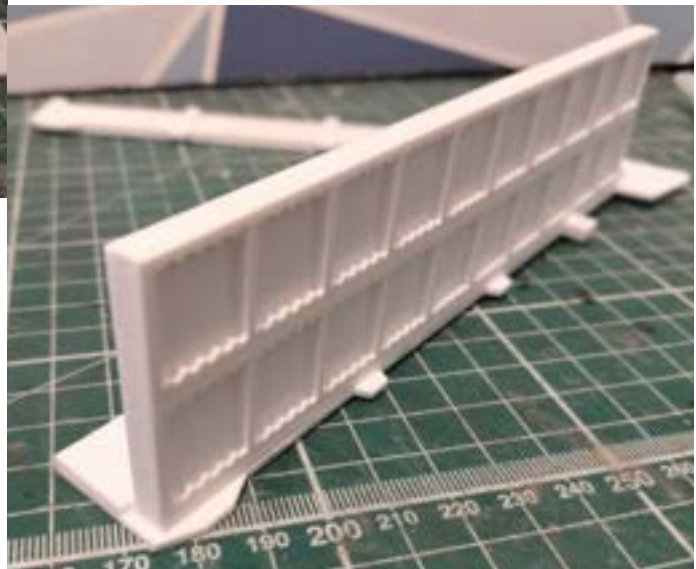
Then remove the plastic backing from all acrylic parts and use a knife to cut the small tabs holding each part to the sprue, DO NOT push the parts out, always cut them. Sand back the surface with a fine grit sand paper 220 grit or less. The laser cutting process causes a slight raised edge on most parts 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. Same applies to resin parts.

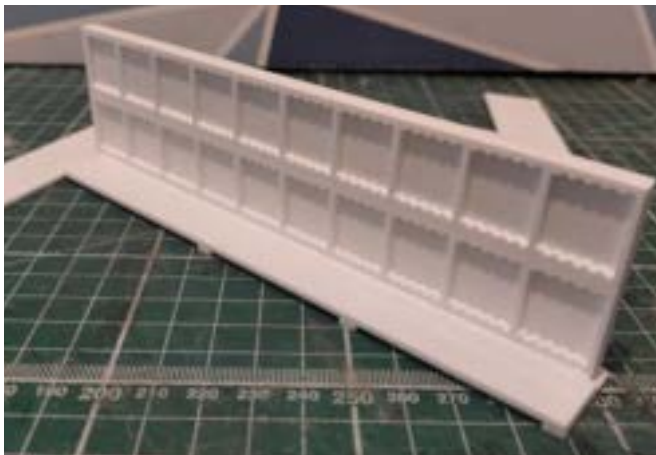
Step 2: Start the build by gluing the three floor sheets together, sandwich the one part 22 between the two part 24's.



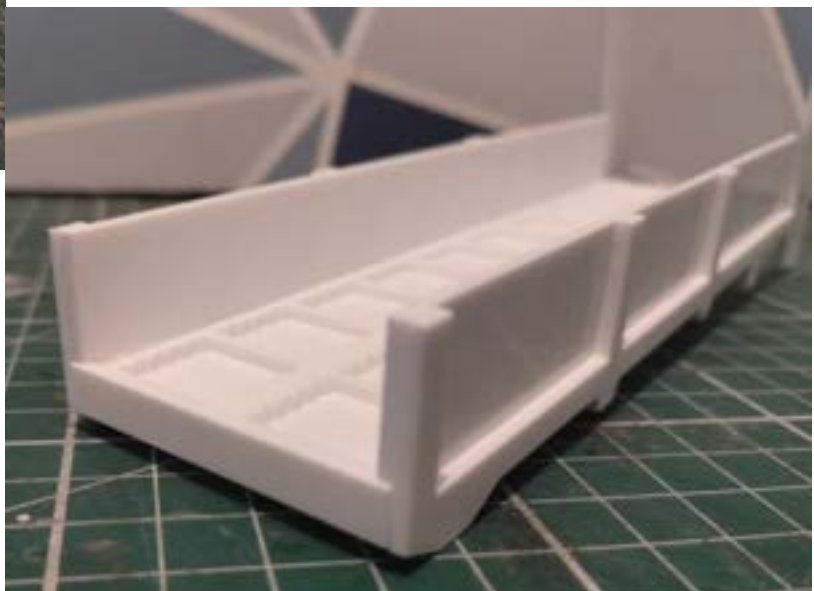
Step 3: Glue the side sheet 2 on top of the side panel 1, align the front corner and rear angle for the correct fit. Repeat for the other side making sure you don't glue both the same way round.



Step 4: Build up the body by gluing the floor to the side as illustrated, align the floor base with the bottom of the side and the front with the notch in the side.



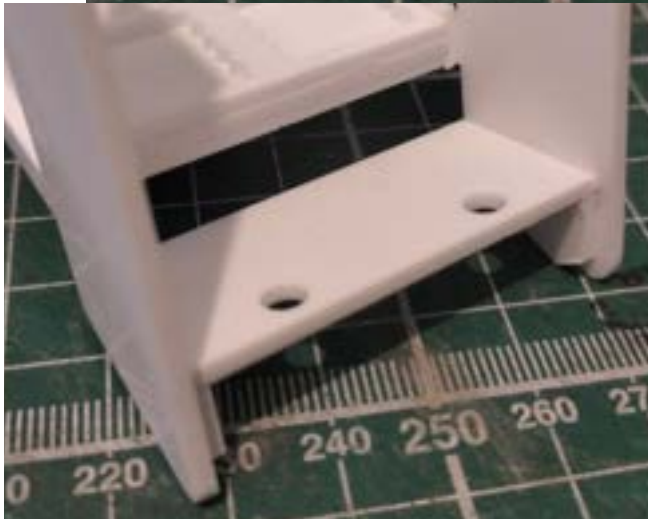
Step 5: Repeat with the opposite side and cap the front space with part 13



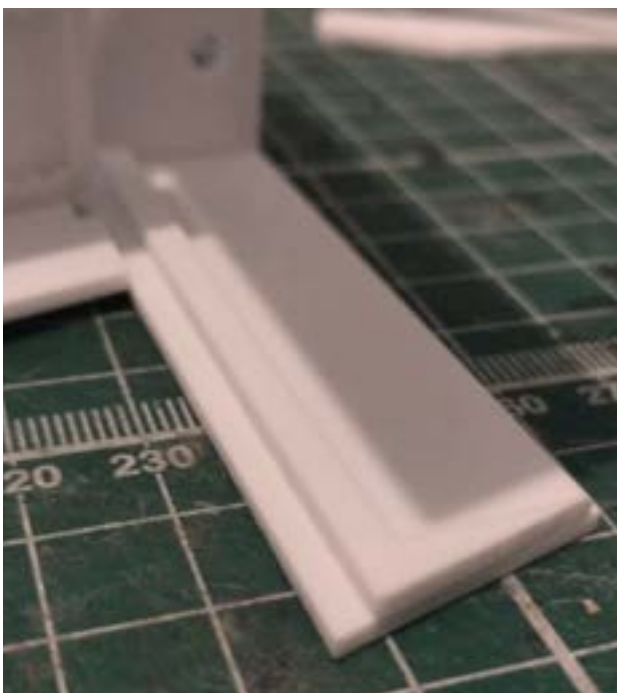
Step 6: Moving to the rear of the chassis fit the part 20 to the inside of both side panels as illustrated. The should line up with the bottom and the front edges. Repeat for both sides.



Step 7: Glue part 29 on top of the shelf created by the two 20's. Ensure the holes are aligned towards the rear and that the plate doesn't extend beyond 20.



Step 8: Fit part 28 to space created as illustrated. Align the top with part 29.



Step 9: Glue the guide part 31 to the inside face of the side as shown, ensure there is atleast 2mm gap between the part and the edge as this is the channel for the rear door to slide in. Repeat for the opposite side.

Step 10: Glue the part 27 to the underside of the guides 31. The part should sit up to the edge of the side as shown.



Step 11: Glue one of part 8 to the outer face of each side as pictured making sure the angled edge aligns with the angle at the bottom of the side.

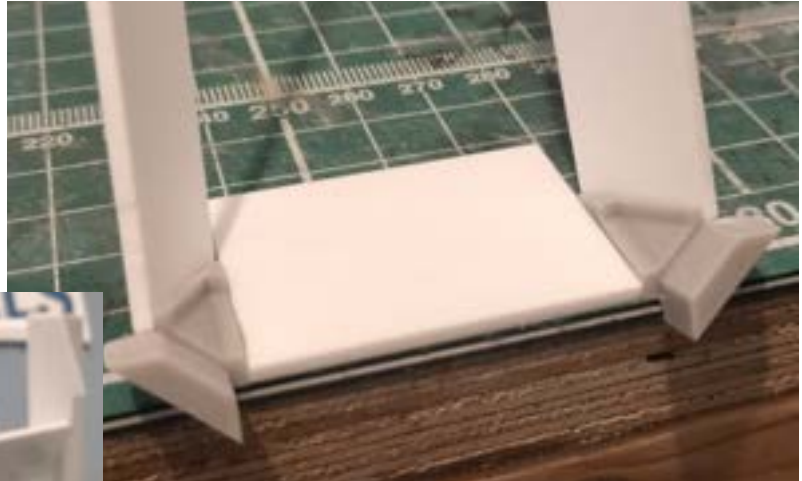


Step 12: Glue the two parts 7 to the rear section as shown, they should fit in the slot at the bottom and the outer edge of the top should align with the end of part 8.

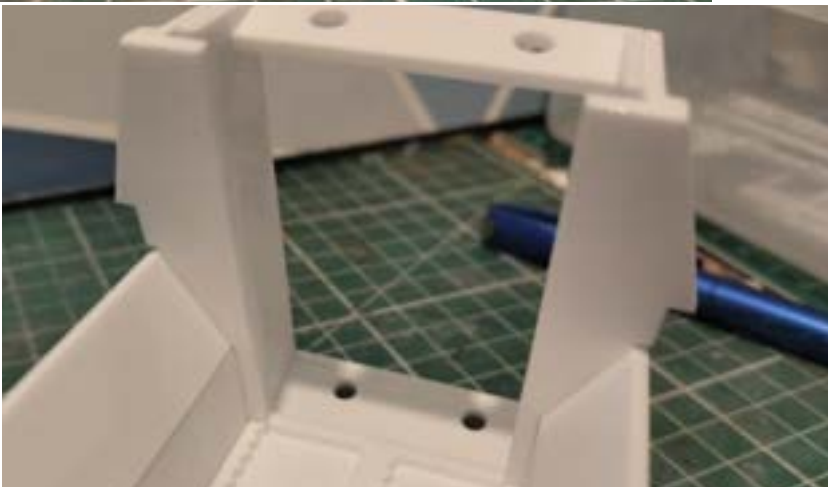
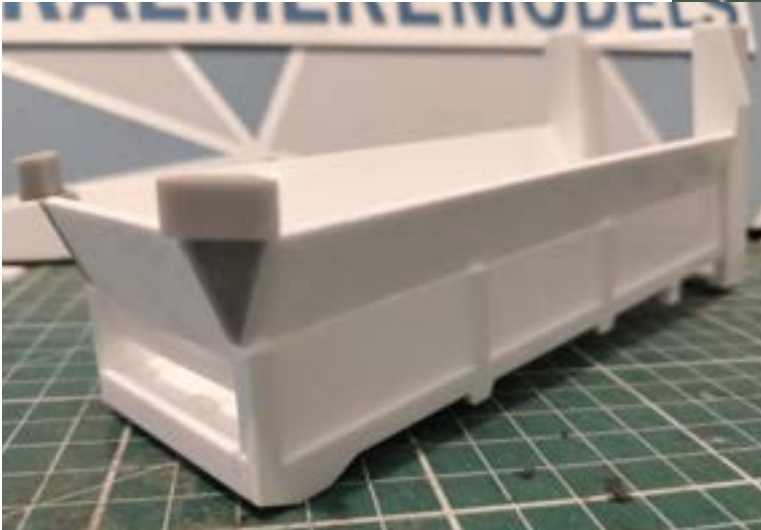
Step 13: Glue the grey plastic front corner piece to the straight end of part 5. it should align with the slot on the grey part with the wide edge at the bottom. Repeat for the opposite side ensuring you make a mirrored version.



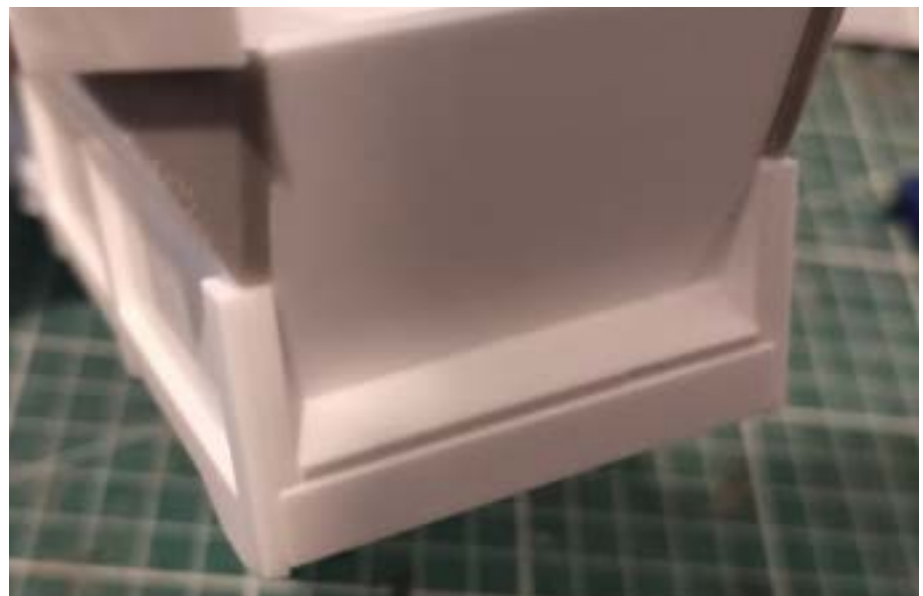
Step 14: Attach the two assemblies together using part 15. Glue to the edges of part 15 with the top long edge aligned to the stepped section of the grey plastic parts.



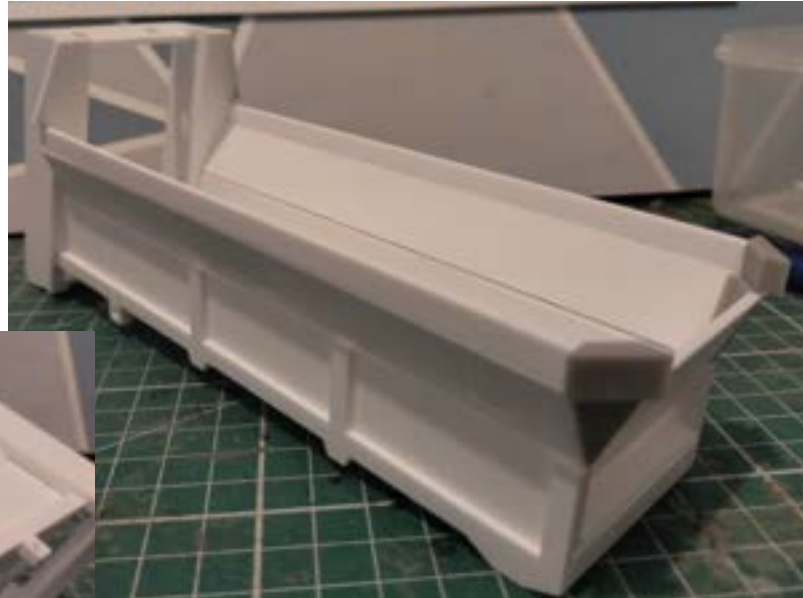
Step 15: The assembly can now be glued to the main body, part 15 should slot in the front and the sides (5) should align with the taper on the rear uprights (7)



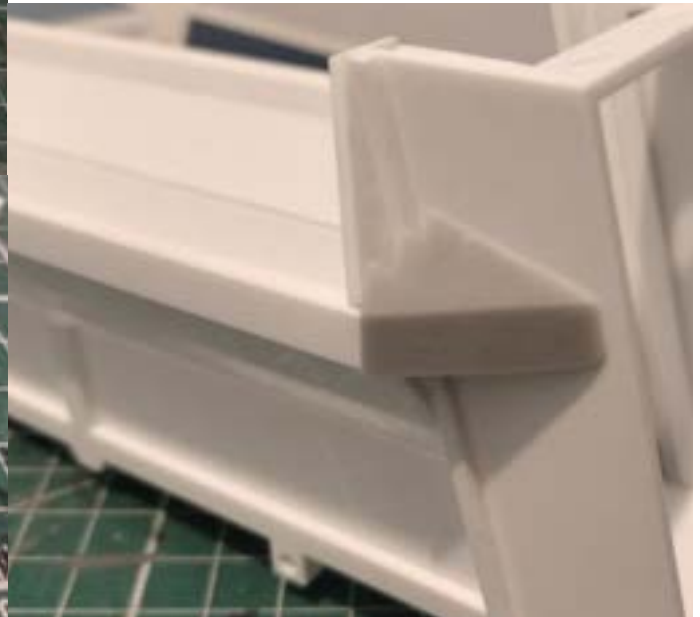
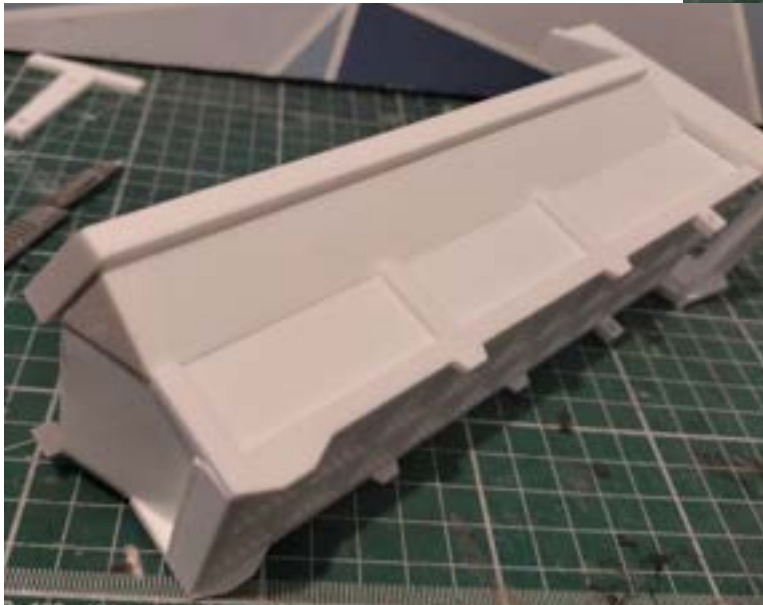
Step 16: Close the front off by gluing part 16 in the empty space at an angle so it meets with the front plate (13) and the top plate (15)



Step 17: Fit the rear part of the top rail part 6 gluing on top of the sloped sides and inline with the interior of the grey plastic corners. Glue part 18 in the same way for the front panel (not pictured). Fit the outer top rails part 12 on top of the inners, it should meet flush with the grey



Step 18: The second pair of grey plastic parts can be glued to the sides now, align with the top rail as shown. Repeat for both sides.

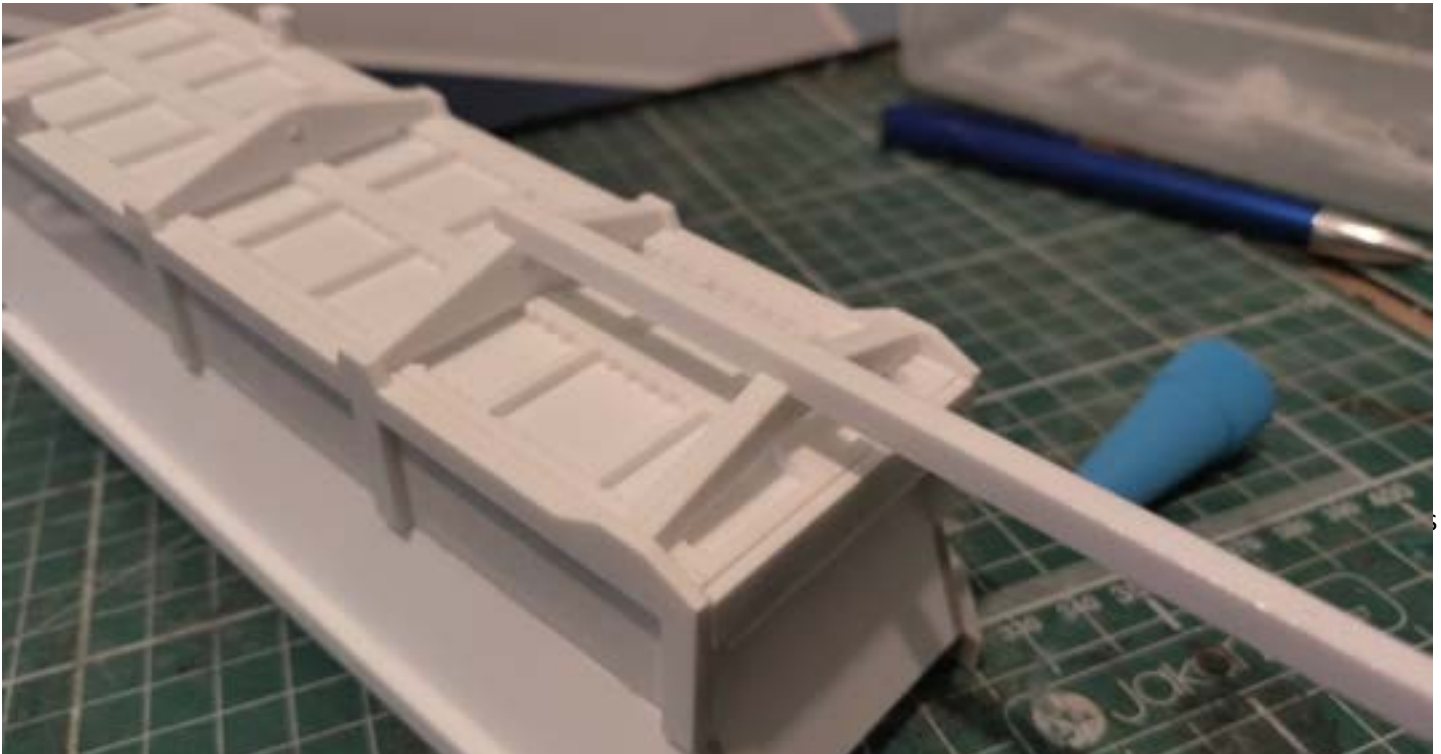


Step 19: Construct the drawbar by gluing the two part 21's back to back and adding the drawbar eye part 37 in the slot at the front.

Step 20: Glue the following pairs of parts back to back to create the cross members: 3, 4 and 23



Step 21: The cross members glue to the bottom of the floor in line with the ribs on the side, the order is no 4 at the front, no 23 in the middle and no 3 at the rear. The drawbar can then be glued in the slots on 4 and 23. The drawbar should end at the edge of 23.



Step 22: Add the pipe holder 34 and PTO guard made from 35 and 36 to the front (17). Glue the front part 17 in between the grey corners and the slot should fit onto the drawbar.

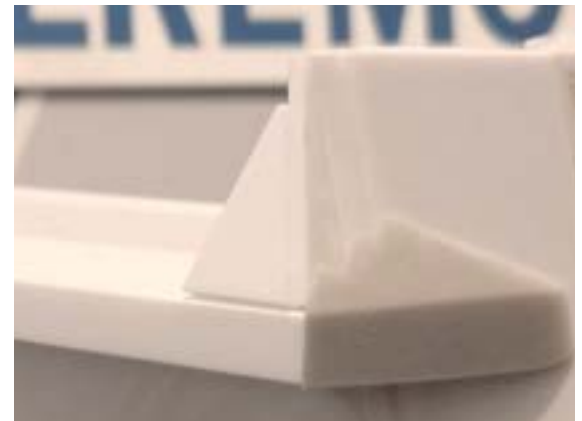
Step 23: Glue the mesh sheet to part 19 and trim to size. Glue 19 and the two corners part 20 to the front top rail using the corners to get the angle/slope correct. See photos for detail.



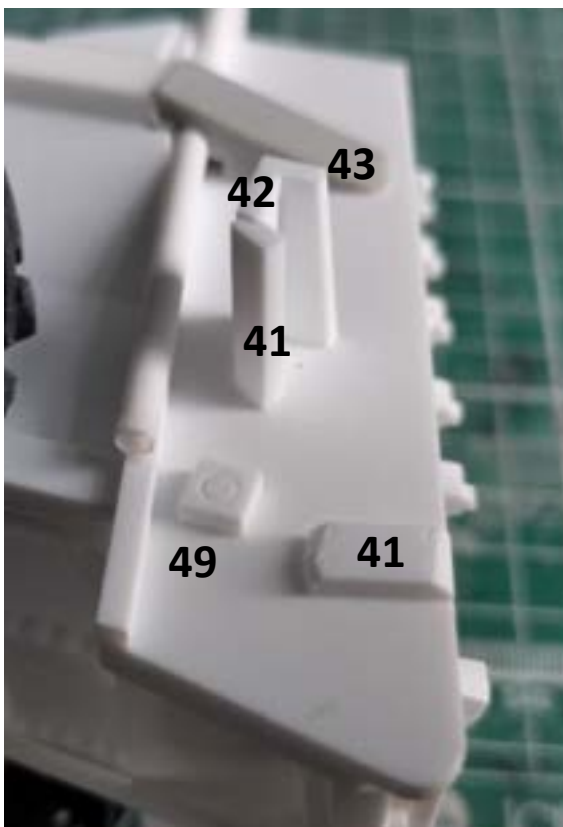
Step 24: All 4 part 11's need some prep before fitting to the spreader. All four need a chamfer sanding on both ends. The chamfers should be parallel. See photo with part 11 as cut on the top, and after sanding below. When sanded the parts can be glued inline with the ribs on both sides of the body.



Step 25: The rear support gussets part 10 can be glued to both sides at the rear as shown.



Step 26: Additional side detailing parts are added as follows. 3mm tube glued in the space behind the grey plastic parts inline with part 8 on both sides. Part 41 glued on both sides inline with the bottom of the rear opening. Gearbox glued to the offside and bearing part 49 glues opposite on the nearside. The light brackets are made up of 42, 43 and 44, mirroring the assembly for the opposite sides.



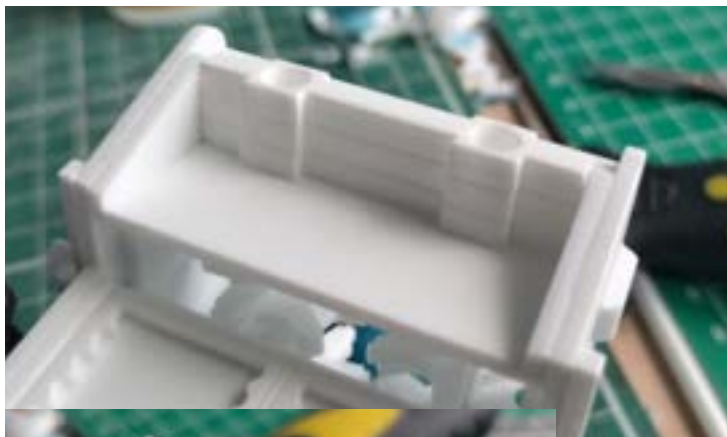
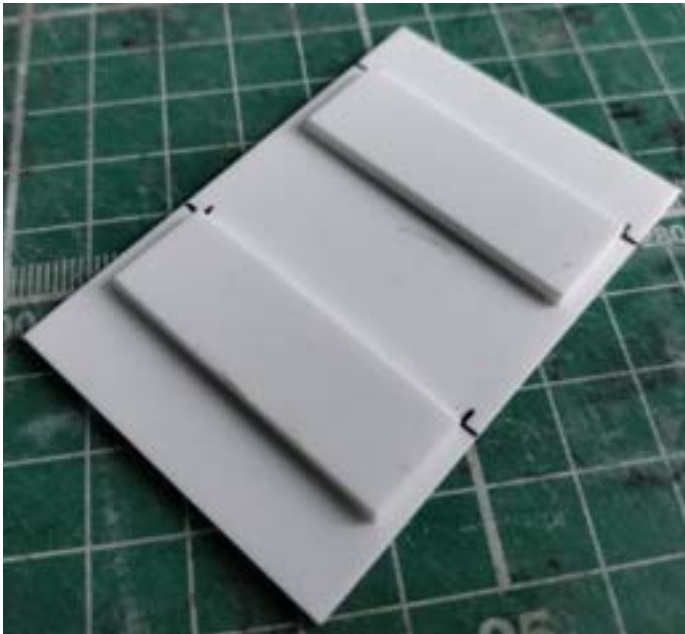
Step 27: The beaters are built up around the 5mm tube. Lightly sand the tube to start with improving glue adhesion. Glue the first part 25 approx. 1mm below the top of the tube. Glue the next one the same way around, with the notched leg glued beneath the non-notched leg. Repeat in a pattern, it should take 6 parts to do one spiral. There should be four full spirals and another 1 part to each beater, 25 in total. Repeat for the second bearer ensuring everything is done in reverse to give an opposite spiral. If the notched part was to the left on the first spiral it should be to the right on the other, and rather than stepping to the right with each part you should step to the left. (This step is extremely confusing so take your time)



Step 28: Glue 33 on top of 32 ensuring the holes align, fit the assembly to the bottom of each beater threading onto the tube.



Step 29: Construct the rear door. Glue the two part 40's to part 38. You can glue over the engraved marks but for the best detail glue to the opposite side, but inline with the engraving. Then glue part 39 central on top of the assembly. Add the two 2mm 68mm plastic rods to the holes in 39. Finally fit the two 3mm plastic tubes to the sides of the assembly, slotting through the grey plastic part as illustrated. Slot the door into place to check fitment. Some sanding to make the best fit may be required.



Step 30: Glue the three part 50's on top of each other underneath the beater holes as shown, ensuring all holes are concentric. Then glue part 52 to the front. The long 2mm rod can now be threaded from the front PTO position through all the relevant slots and holes until it rests in the hole of part 52. This is the driveshaft from the PTO to the beaters.

Step 31: All that remains is to glue the grill to the front of the body and the PTO to the top of the drawbar, use part 46 to support the PTO from the front.



Step 32: The model is now ready to paint, dry assemble the wheels, bearers, and rear door to check for any issues. Before painting ensure the resin rims have been thoroughly washed in soapy water to remove any silicone release agent. Ensure that the model is clean and free of dust and contaminants like grease before painting.



Step 33: Where possible paint parts separately.

To begin with we have used an aerosol primer (Halfords Red Plastic Primer) on all parts. This is then left to dry.

All parts in red have then been painted with two coats of Halfords Fiat Red Orange, the official KTwo colour. Is Fendt Poppy Red but the Halfords can is a great match. The grey parts were sprayed with Halfords Volvo 228 Dark Grey, again a good match for the Fendt Grey original colour.

Allow the top coats to dry thoroughly. If they dry dull consider adding a clear lacquer coat over the top, to avoid a dull finish place the cans in warm water before hand and ensure parts are left to dry in a warm dry place such as beside a radiator, taking care not to go too close in case the plastic warps.

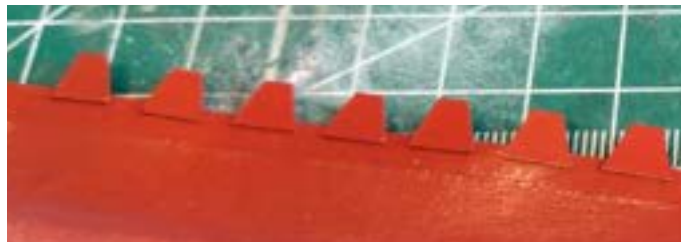
The rams have been picked brush painted in Tamiya Aluminium XF16 and the PTO in Tamiya Yellow X8.



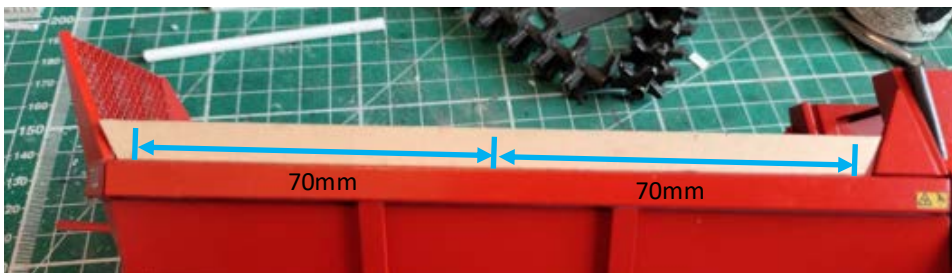
Step 35: If adding the greedy boards now is the time. Start by giving the edges of the laser cut wood a sand to remove the burnt colour. Then glue the boards to the top rail of the spreader. We have used UHU contact adhesive for this job as super glue is likely to fog the painted surface. Ensure they are correctly oriented with the sharper angle to the front.



Remove the masking tape from both sides and cut the small 0.5mm thick triangles off their sprue. Then paint them red, you may find it easier to paint whilst still on the sprue, alternatively stick them all to a piece of masking tape as pictured.



Measure out the location of the triangles as per the photo, glue the triangles in place, again we used UHU glue. Add the triangles to all four sides of the timber. This completes the greedy boards.



Step 35: Cut out the decals supplied with a pair of scissors, cut close to the outline of each piece for the best finish. When cut out carefully prise the backing paper away, a craft knife is useful for this task. Then simply stick the decal down in the correct location. See the photos below for decal locations.

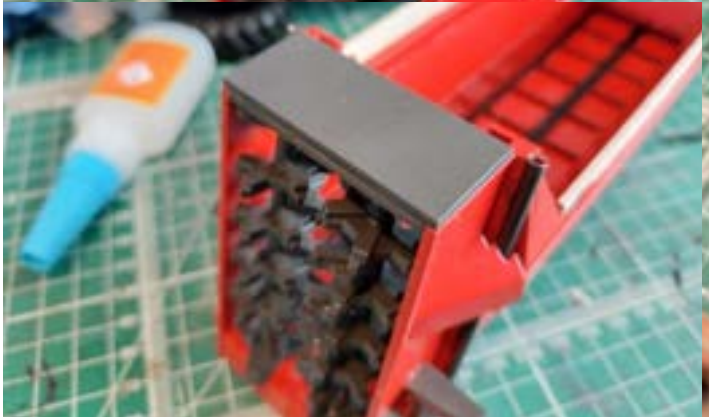


Step 36: Assemble the ladder from parts 54 and 55, then paint grey and glue to the body as pictured, use UHU glue.

Step 37: Assemble the bearers, position the bearers in the housing, inset the 4mm plastic rods down the centres to hold the bearers in place. Secure with a small amount of glue. Paint part 56 grey and then glue over the top of the beater tubes as shown. Ensure there is enough space for the rear door to slide in.



Step 38: Glue the wheels onto one end of the axle, slot through the axle holes and then glue the other wheel on, Cut a small length of the black straw to use as a spacer if required. This completes the build.



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Sit back and enjoy! This completes the build. A selection of reference photos are included below.



