

LONDON
TRANSPORT

4mm
Scale



Resin Things Included

"VIV" Bars x 12
Small Hinges x 12 (+ spares)
End Connectors x2
End Steps x2
Bufferbeam Steps x2

Things Required

Dapol or Cambrian Turbot Wagon
Superglue
Sharp craft knife or scalpel
Pliers
0.45mm drill
Paint and transfers

Metal Things Included

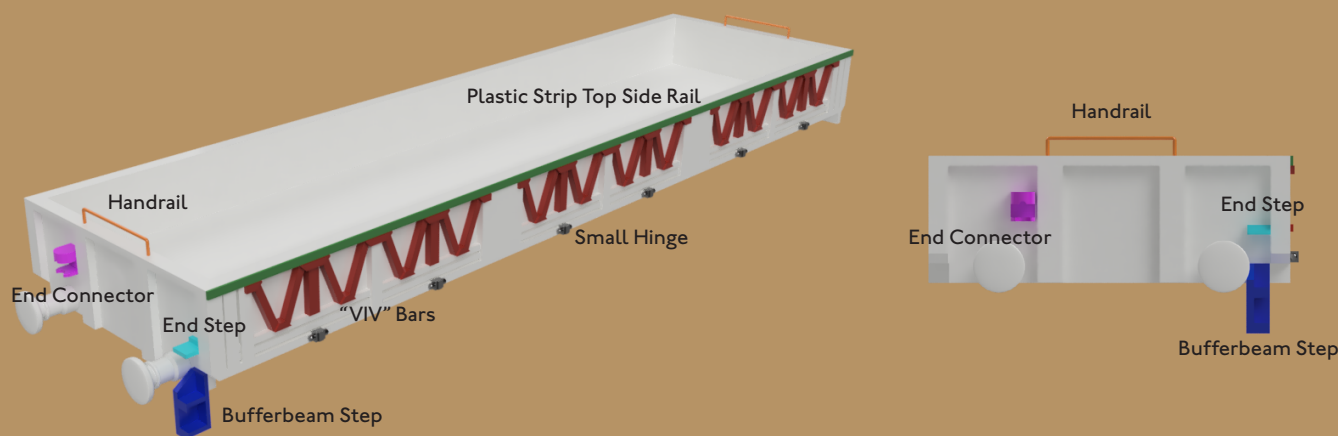
0.4mm Handrail Wire x2

Plastic Things Included

Plastic Strip for Top Side Rail x2

Thank you for purchasing this conversion / detailing kit. We really do appreciate your custom. Before we start, there are a few things you need to know about working with resin printed items:

- Resin prints can be glued with cyano adhesives such as superglue. Solvents such as MekPak, PlasticWeld and Liquid Poly **are not** suitable.
- Resin prints can not be trimmed with knives, scalpels, or trimmers. Attempting this will result in a shattered piece.
- Resin prints can be shaped and trimmed using files (we recommend diamond files) and sandpapers.
- Resin prints sometimes have "support pips" left behind during the post-printing processes. These will need to be carefully removed with a file, sandpaper, or an emery board.
- Resin prints can be painted with acrylic and enamel paints.
We strongly recommend the use of a filler primer to correct any surface blemishes or layer lines which are an inevitable unwanted side-effect of the process.
- As resin printing is a wet process, some shrinkage of components is inevitable. Whilst we engineer this in at the CAD stage, some manufacturing shrinkage is inevitable and can be corrected with fillers. We recommend Valejo Liquid Putty or Revell Plasto.



- Please familiarise yourself with the diagram above for the location of all of the components.
- "VIV" Bars should be applied first within the 12 panels on the bodysides. These have been removed from their frets so you do not break them. However, sometimes a small support "pip" can be left on the back and these will need gently removing first with a file or emery board. The tips of the horizontal plates should touch to form the illusion of one plate in the centre of each pair.
A few tiny spots of superglue on the back of the bars applied with a pin is enough to secure without seepage spoiling the wagon side.
- Once all of the "VIV" bars are in place, apply the Plastic Strip Top Side Rail, again using superglue sparingly.
If you are using the Cambrian kit as a base, this could also be applied with a plastic solvent adhesive such as MekPak or PlasticWeld.
Once set, trim any overhang with side cutters or a sharp craft knife.
- Apply hinges to the very bottom panel directly in line with the vertical part of the "VIV" bars. It is much easier to do this by leaving the vertical support on the hinge like in the photograph on the right. Once set, the support peg (marked red in the photograph) can be easily removed with a little movement or twist. We have included a few spares in case any are surrendered to the carpet monster....
- Add End Connector, End Step, and Bufferbeam Step to each end in the locations shown.
- Drill holes 0.45mm diameter for the handrails in the top rail on each end, directly above the vertical support pillars.
The hole centres should be 13mm apart. You do not need to drill far, about 2mm deep is plenty. We recommend you use a hand drill or pin vice to avoid melting the wagon.
- Bend the handrail wires with two ninety degree bends as the diagram on the right. The distance between each bend should be 13mm. Use the diagram as a drilling and bending template if it makes life easier.
- Fix the handrails in place using superglue. The handrail should protrude around 3mm above the top surface of the top rail.

