BOOT LANE WORKS
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THE VYNE

Thank you for buying this locomotive kit from Boot Lane Works, please read all the instructions carefully before assembly.

Tools & Adhesives

I recommend a few tools to help you assemble your kit –

- Modelling Knife *(I use a scalpel)*
- Tweezers, Pliers, etc…
- Normal & Needle Files, various shapes
- Wet & Dry abrasive paper *(the mixed selection from Halfords is very good)*
- Selection of small twist drills, including 1.5mm & 2mm diameter
- A 90-degree angle *(I use a set block, but a small set-square works well)*
- I personally, can't manage without my small, tapered reamer, look for them on eBay!
  TAKE CARE WITH THE REAMER - MAKE A SMALL CUT, TRY, AND CUT AGAIN

I also recommend the following adhesives –

- Super Glue
  I use Gorilla Super Glue
- Dichloromethane, A liquid solvent for the acrylic
  I use E.M.A. Model Supplies "Plastic Weld"

The kit consists of 3D printed parts in both filament and resin.
THE ACRYLIC IS DELICATE, AND WILL SNAP IF NOT TREATED WITH CARE
THIS IS A LIGHTWEIGHT MODEL AND SHOULD BE TREATED AS SUCH
Good results can be obtained from rattle spray paints; Halfords is a very good source.

Please refer to the part images at the end of the instructions for identification.

THE BODY

Build the body starting with the 2mm thick floor or base plate, there are two 2mm sides and two 2mm ends.
The ends fit inside the sides, the curve of the roof carries over the top of the sides.
Use a flat surface to ensure the sides and ends are at 90° to the floor.
The five pieces create an open toped box.

THE HOLES FOR THE DOOR HANDLES ARE TO THE RIGHT ON BOTH SIDES

I painted the body and 1mm overlays separately and used double-sided tape on the rear of the overlays to adhere them to the body.
Use the door Handle holes to ensure alignment.
Unlike the main body, the overlay ends extend across the whole width of the body, while the overlay sides are inside the ends.

There are six 2mm curved roof supports.
I used one each at either end to add extra strength to the end pieces.
With the remaining four, I glued them together in pairs and used them at equal spacing to provide support for the roof.

There are three sizes of 1mm windows.
The larger of the three sizes (x4) fit into the recesses created when the overlay is fixed to the main body. The next size down (x4) also fit into the recesses.
The smallest of the 1mm windows (x6), fit over the door aperture.

THE ROOF

There is a piece of 0.5mm styrene as roof, this can be formed over the body and roof supports.

I RECOMMEND THAT SUPERGLUE IS NOT USED – IT WILL STAIN THE WINDOWS
PVA IS VERY GOOD IF GIVEN PLENTY OF TIME TO DRY

My own personal method of forming a roof is to place the whole model upside-down, with the roof supported on two lengths of 25mm timber. I then add weight to the model (house bricks) to push the model down onto the roof and the timbers, thus forming the curved shape.
Leave overnight to dry!

THE CHASSIS

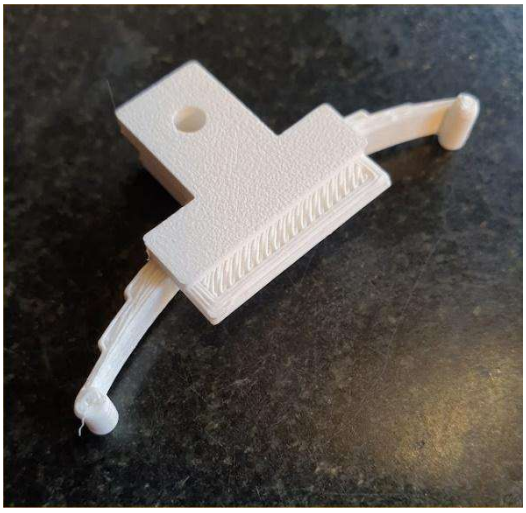
The chassis can be built separately or directly onto the body.
Start with the three frame stretchers, add two frame stretcher strengtheners to each side of the stretcher. **See image below.**
The frames are separated by the three stretchers and two end stretchers.

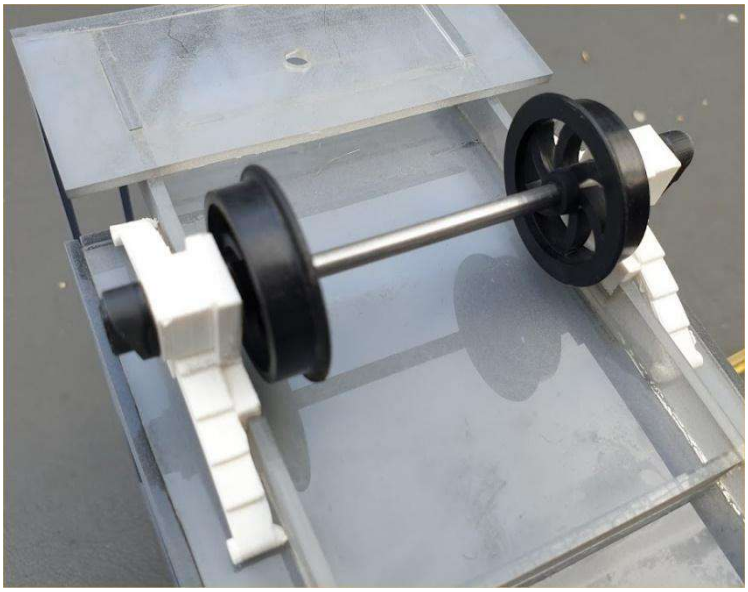
ENSURE THE FRAMES ARE THE CORRECT WAY UP – THE LUGS AT THE TOP TO LOCATE IN THE BACE PLATE

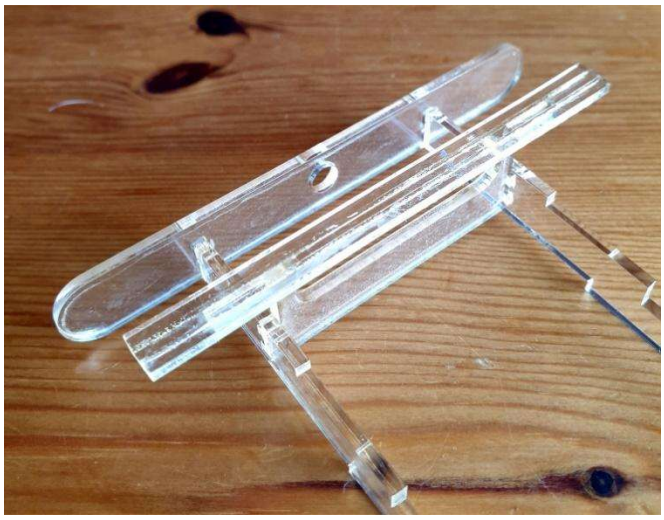
The buffer beams affix over the end stretchers.

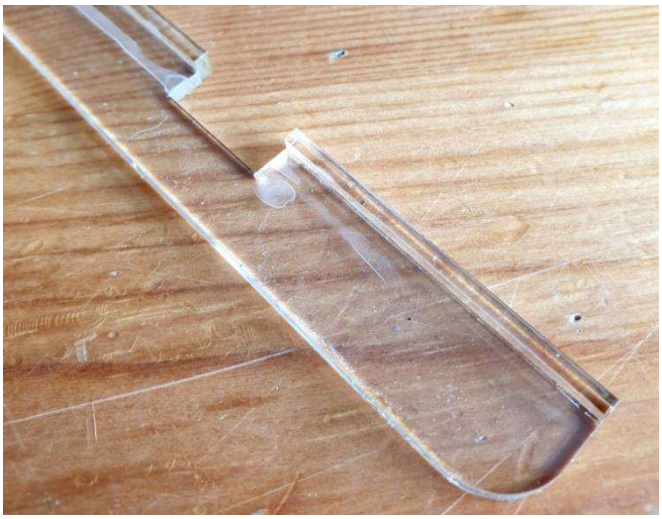
The running boards have three strengtheners each, two short and one long.
See image below.
I suggest the running boards are not fixed to the carriage until the very end of the build.

FINISHING









Clean the four springs/axle-box prints. They have some support material as part of the print process. You need to remove this support material to leave a print like the one in the image above.

Open the hole in the spring/axle-box, to accept the brass bush.

The spring/axle-box print (and bush) can be offered to the corresponding slot on the frames. A small amount of glue will hold the print in place.
Attach two springs/axle-boxes to one side and allow the glue to set.

Fit the wheels to the stainless axles, you need a 28mm “back to back” measurement for 32mm gauge, and an equal amount of axle protruding either end.

Now, repeat the process for the spring/axle-box prints, and add the wheelsets when you attach the prints.
Add a tiny amount of oil to the bearing.

There are four resin printed axle-box keeps that should be attached to the end of the spring/axle-box prints. The curved part of these keeps, is to the underside of the keep.

Door handles (x6) have been provided; the holes in the body may require the opening slightly.

Central resin print buffers have been supplied but am all too aware that customers often prefer to provide their own couplings.

If you purchased the Guards End Vyne, then the resin print Ducketts will require cleaning and should fit directly over any window opening.
Where it goes on the carriage, is entirely your choice…
I would suggest either at the very end, or as in the image at the top of these instructions.

An electronic copy of theses instructions can be found at -
www.bootlane.org.uk

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