BOOT LANE WORKS
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ROSE

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…
- 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 will work 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 RESIN PARTS ARE VERY BRITTLE AND MUST BE HANDLED WITH CARE
For best results the filament parts should be primed and "rubbed down" to remove the print lines. Good results can be obtained from good rattle spray paints; Halfords is a very good source.

CHASSIS

This model is supplied with a chassis kit that contains separate instructions.
Please refer to those instructions when building the chassis.

THE SKIRT

Place the acrylic skirt top upside down on a flat surface (glass or marble is good).
The topside of the skirt top, has two holes that will need a countersink, these countersinks should be face down on your flat surface.
Start with the skirt ends, glue them to the end of the skirt top.

The hole in the skirt ends is there should you wish to add your own buffer/coupling, the centres are 25mm from railhead, with the hole closer to the top (remember, you are building this upside-down).

Use a square to ensure the angles are 90-degrees.

Attach both ends ensuring they are flush with the top (remember, you are building this upside-down). Once the glue is set, attach the skirt sides.

When finished, the skirt top will be “inside” the skirt ends & sides.
(note - these photos are of an older design with four fix holes for the chassis, now only two holes)

The 1mm acrylic skirt detail can now be added.
Again, start with the ends, then the sides.

The kit is ideally placed to paint certain parts separately; I suggest the skirt is painted now.

The chassis should be fitted into the finished skirt, the x2 M3 nuts should be fitted into the chassis, a tiny dab of super glue will keep the nuts in place. There is a nut recess printed into the underside of the frame stretchers.
x4 M3 countersunk screws will attach the chassis through the skirt top.

THE BODY

The body is a repeat of the skirt, except that there is an opening in the centre.
Start with the ends again!

Before adding the sides, I suggest the holes for the handrail knobs are opened out slightly to fit the knobs. The Handrail knobs are a new addition to the kit and are printed in resin.
They are a little fragile, be sure to paint the resin to stop the UV curing process.

There are x6 lengths of 1mm acrylic beading strips, x2 long & x4 short.
Turn the body upside down, and (starting with the ends again) fix the long beading strips along the top (bottom, the body is upside down) edge.
Then, the four shorter strips along the top edge of the sides.

I suggest the body is painted at this stage.

INTERIOR DETAIL

There are x2 coal bunkers & x1 water tank (the water tank now has a top with space for the switch provided with the chassis kit).
These should be cleaned of printer marks, etc. Then finished to you own standards.
They each have a recess in their corners that trap the x4 2mm brass uprights.
They are captured into place by x4 M2.5 screws, these screws also capture the skirt to the body.
The screws will need to tap a thread into the bunkers & tank, and I suggest this is done prior to assembly. *Much easier with only a tank, screw & screwdriver in your hands!*

The tank is hollow and will accommodate a Loco Remote “Mini B”, there are corresponding

rectangular holes in the frame stretchers, skirt top, body floor & tank to allow this.
I leave the electronics to the modeller.

There is a resin printed water tank filler, the hole in the tank may need opening.

The boiler consists of four parts.
These should be cleaned from printer marks, etc. And finished to your own standards.
The ring fits the boiler at the bottom, the boiler extents 2mm beyond the ring and fits into the body floor but will not fit though the skirt top.
The cylinder block will fit the boiler and clear the ring. There is a locating lug & hole for the cylinder block, the hole in the boiler may need opening slightly.
The chimney fits on top. *Obviously!*

The boiler has two 2mm holes in the top half to accommodate the gauge glass (water gauge).
I've designed a regulator valve, handle & pipe that attaches to the safety valve block aside the chimney with the steam pipe feeding to the top of the valve chest between the cylinder-heads.
I attached mine to the safety valve block with a tiny dab of super glue and left the other end free, which allows the whole to lift off with the chimney.

ROOF

The roof structure is built from two parts, a printed frame and a 0.5mm styrene sheet.
Clean the frame, and open the four holes, ensuring they accept the four 2mm brass uprights.
I glued the two together with superglue, and resting the whole, upside down on two lengths of timber, added a house brick as weight to curve the styrene sheet to the frame and allowed it to dry.
The roof should lift off easily, as does the chimney, allowing access to the boiler barrel and battery space.

A PDF copy of this document can be downloaded from – www.bootlane.org.uk/instructions

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