



MUSKETEER

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 –

- Small Bench Vice
- 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*)
- 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"

ABOUT THE PRINTED FILAMENT

THE FILAMENT WILL SOFTEN IF IT GETS HOT - DO NOT LEAVE IN DIRECT SUNLIGHT

The printer extrudes a filament of plastic, layer by layer, to create an object. As it does so, it can leave tiny ridges along the object.

For best results use a file to clean the surfaces, then apply a primer or a primer/filler and rub back with a wet 'n' dry. A little effort with preparation will reward you with great a topcoat.

THE RESIN PARTS ARE BRITTLE AND MUST BE HANDLED WITH CARE

The resin is hardened by an ultraviolet light process but continues to adsorb the light after the process. Please ensure the resin is thoroughly painted to stop the hardening process continuing.

CHASSIS

There are separate instructions for the “No 6” chassis kit, intended for use with your MUSKETEER kit. Please bear in mind that this model, although intended for garden use, is still a small power unit, designed for hauling a handful of wagons or a couple of small carriages.

We DO NOT guarantee this chassis if used for “Heavy Haulage”!

MUSKETEER - A BRIEF HISTORY

The model is completely freelance and has evolved from a design by Andrew’s father.

Built in the 1970s, the original was a 4mm standard gauge model, in brass & steel and used a K’s motor with a single wheel drive & flywheel and is pictured below.

We first built a 16mm scale interpretation of the locomotive in 2019 & named PATIENCE, the design was evolved in 2020 and several more were built by special order.

In 2022 another (PRINCESS) was built for our own garden railway, the Candlebridge Tramway which won the Peter Jones Award at the National Garden Railway Show, Peterborough 2022.

Following many enquiries, the model was been redesigned at the end of 2023 and a limited run of 24 kits released in 2024.

Due to popular demand, the kit was re-released in March 2026 at the Midlands Garden Railway Show (The Fosse).



THE SKIRT

The skirt is built up from five pieces of 2mm clear acrylic, these have been designed to simply come together like a jigsaw!

Rub the surfaces of the acrylic with a wet'n'dry to give a good key for both the liquid glue and paint.

There are also two pieces of 1mm acrylic that overlay the sides of the skirt and represent the "doors" that lift up on the locomotive to allow access to the running gear.

There are holes in the 2mm side sections of the skirt. They may be left as holes, although we have supplied small resin printed "coach" handles that may be fitted into the holes. The holes may need opening out slightly for the resin handles.

A distinctive feature of the original model were the large "Dumb-Buffers", and these are represented by four resin prints.

We have also included two couplings for chain-links. These can be glued into place if required, although there are holes in the 2mm acrylic end sections that can accommodate couplings of your own choice.

THE BODY

The main body is a single white filament print.

There are two ways to smooth the body down ready for painting.

- A good primer filler (we thoroughly recommend Halfords rattle cans), which is then rubbed down with wet'n'dry. Do this wet... A couple of applications of primer, suitably rubbed back will give an excellent finish.
- A second method is to cover the print with something. Our own preference is a very thin styrene (Slaters do some great sheets of very thin styrene). One of our customers achieves some incredible results with cardboard!

Whichever method you use, we have supplied three lengths of Plastikard 1mm Beading. These can be attached around the top edge of the tanks and bunker to create a little depth to the model. Two strips will need to meet in the middle of the front tank edge and wrap around each side.

Holes are provided for the resin printed handrail knobs in the body. These accept the 1.5mm brass rod cut to 33mm lengths.

The tank top is one piece of 2mm acrylic, there is a slot that will accept the micro slide switch (included with the chassis kit). *Note, the switch will need to be mounted on the left side of the tank, there being clearance in the body print to accommodate the switch on the left side only.*

There is tank filler detail, chimney & sand dome on the tank top. The holes help alignment. Smokebox door & handles are included for the front of the locomotive.

The distinctive large circular firebox fits over the ring printed into the footplate.

There is gauge glass & regulator detail for the back of the firebox. The firehole door is already printed into the firebox. We have included a safety valve bonnet in the kit. Our suspicion is real brass ones may be available from some suppliers.

There is a printed block that will fit over the microswitch, and act as a toolbox. We have included wooden strips that may be used to line the toolbox and create a distinctive image.

The body, skirt & chassis are simply held together with X2 M3 nuts & screws.

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

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