Gmeinder 80PS BDM Dieselok

ENG-010

euroNG

Prototype Info

The Gmeinder BDM 80PS feldbahnlok were a 80hp locomotive produced in Germany for the military between the wars in both 600 and 760mm gauge. It was the most powerful of their 600mm range, weighing nearly 10 tons and was unique in providing drive through a central gearbox and jackshaft drive via the coupling rods.

Only one prototype has been preserved, and this is now believed to be in France.

Thank you for purchasing this EuroNarrowGauge kit, we hope you enjoy building and operating it. Please read through the instructions thoroughly before beginning assembly.

Tools required:
Sharp craft knife or scalpel
Tweezers
Wet and dry paper
Superglue.

Parts required:
0.4mm brass rod.
Short handrail knobs x 12.
Glazing material.

About the kit

The kit is comprised of a 3D printed plastic body shell and a fret of etched nickel silver detail parts. No folding of these parts is required and they can all be glued in place. We recommend sparing use of superglue for assembly, ideally using a bottle with a thin applicator nozzle.

Due to the nature of the 3D printing process, some support material may still be present on the body. This waxy residue has been cleaned during our checking process, but it can be a good idea to submerge the model in white spirit, agitated gently with an old tooth brush and leave to dry. The plastic used may be easily cleaned up with a sharp knife and fine wet and dry paper or emery boards to remove any roughness left from the support material used during production.

Please note this is a scale model for adult collectors and not intended for children under 14 years of age.

Assembly Notes

1 • Clean up the 3D printed body • Use a fine wet and dry paper (640 then 1200 grade if possible) in water to achieve a smooth finish to the cab front and bonnet top. Rinse the model in a white spirit to remove any traces of printing residue or grease from handling.

2 • Check the donor chassis • The kit is designed to fit a Minitrains LKM NS2f diesel engine chassis. Before removing the body from your donor locomotive it is suggested you run the model in following the manufacturer's instructions.

3 • Test fit the body • Offer up the kit body to the chassis to check for alignment and fitting. No adjustment should be necessary, but if required remove a small amount of material with a sharp craft knife or needle file from the 3D print. The chassis is a push fit within the body, but an M2 screw can be used to secure the body at the front if you wish.

4 • Detailing • The etched parts can now be carefully removed from the fret, taking care to only remove the parts you need to avoid the risk of loss or damage. Carefully remove each part from the fret using a sharp knife on a cutting mat or similar hard surface, or sharp needle nosed scissors to minimise the risk of damaging thin parts. Clean up the tags.

Parts Placement

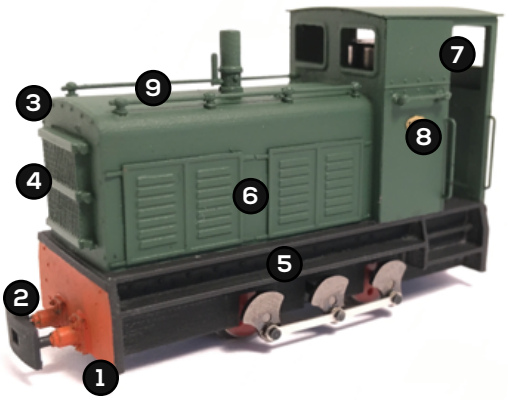
9 • Bonnet handrails formed from 8 short handrail knobs and 0.4mm brass rod.

3 • Etched bonnet front fitted with superglue.

4 • 3D printed radiator grill fits into etched surround.

2 • 3D printed buffer fitted to each end.

1 • Etched buffer beam overlay at each end.



6 • Etched bonnet doors fitted to each side.

5 • Etched inlay on each side of the chassis.

8 • Cabside handrails formed from 0.4mm brass rod, and 4 handrail knobs.

7 • Etched cab sides, rear and roof fitted, sides and rear first.

5 • Weight • To improve the performance of the model it is suggested that some strip lead is added within the bonnet. There is space to add this to both ends and still fit the donor chassis into the print. This is available from Eileen's Emporium or any plumbing supplier. It is recommended that this is secured with superglue to avoid the risk of blooming of the lead.

Painting and finishing

To ensure a quality finish we recommend applying two thin coats of primer, with a gentle sanding in between to remove any surface defects. We recommend Halfords car plastic primer, which is grey, easy to apply, widely available and provides an excellent surface for further detailing. Leave the primed model for a few days to harden.

The prototype locomotives were often finished in green with red buffer beams and black chassis and wheels, the preserved locomotive in France is a maroon colour with black chassis.

NOTE: The prototype model shown in the photos features etched cabside number and works plates not included in the kit as these were not carried by all prototypes.

Acknowledgements

We would like to thank members of the 009 Society and NGRM-Online for their feedback and support in the production of this kit.

About EuroNarrowGauge

EuroNarrowGauge was founded in 2014 with support from Narrow Planet. This kit is part of an expanding range of European prototypes and was designed by James Hilton. If you have any queries about the model or instructions please get in touch.

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