

eurONG
ENG-007
Jung Cnzt
Locomotive

Prototype Info

This model is based on the design features of a 0-6-0 well tank (classification Cn2t) built by Arne Jung, Jungenthal, Germany both before and after the second world war. A large number of these industrial tank engines were built for use across the world, with examples being extensively used in both the forestry and sugar cane industry.



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

Parts required:

0.3, 0.4 and 0.9mm brass rod.
 Plastic microstrip (various).
 Glazing material.

Tools required:

Sharp craft knife or scalpel
 Tweezers
 Needle file

Wet and dry paper

Superglue
 0.45mm drill bits
 Twist drill or mindrill

About the kit

The kit is comprised of a 3D printed plastic body shell and a fret of etched nickel silver detail parts. Limited folding of these parts is required and they can all be glued in place. We recommend sparing use of liquid 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 and tank sides. 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 Porter 0-6-0 saddle tank 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.

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

1 • Sanding gear actuator added from plastic microstrip.

2 • Sanding pipework from 0.4mm brass wire.

3 • 3D printed clack valve with 0.6 mm diameter brass wire piperwork.

4 • Steam feed and exhaust pipework from 0.9mm brass wire.

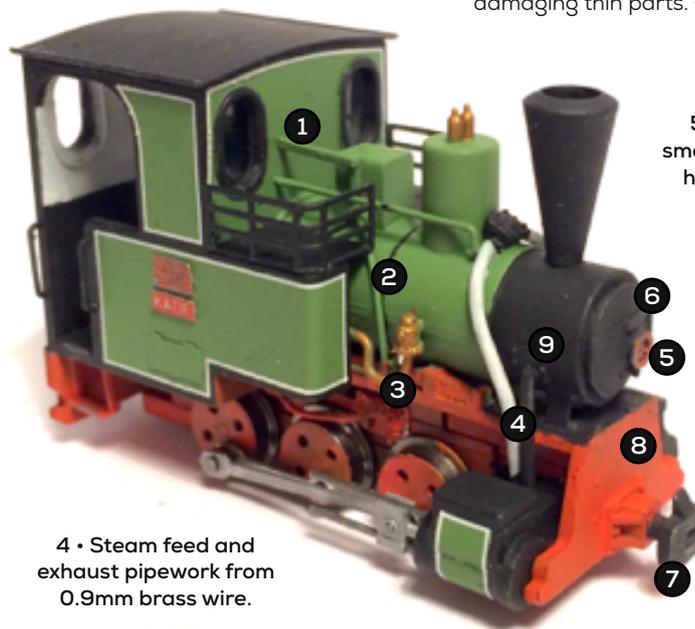
5 • Etched smoke box door handwheel.

6 • 3D printed smokebox door, with hinge added from plastic microstrip detail.

7 • 3D printed buffer.

8 • Etched front buffer beam overlay

9 • Etched smokebox panel.



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 diesels locomotives were usually finished in plain black, although they often aquired more colourful embellished liveries during their life times. Red frames were common, although all black or black with body coloured wheels are other options. Our prototype shown here is finished in the style of 'Katie' at the Bredgar and Wormshill railway in Kent, lined green, edged in black, using Fox transfers for the thin white striping.

Glazing material should be added from the underside of the body prior to finishing. A driver figure can be fitted in the cab, the 'workmen' figures available from Dapol are suitable with minor surgery.

Parts Placement

1 • Etched fuel rails, fold up from flat and fit over the water filler in the tank.

2 • 3D printed chimney with securing nut fitted from the top.

3 • Etched works and name plates.

4 • Etched tool box cover.

5 • 3D printed cylinder covers.

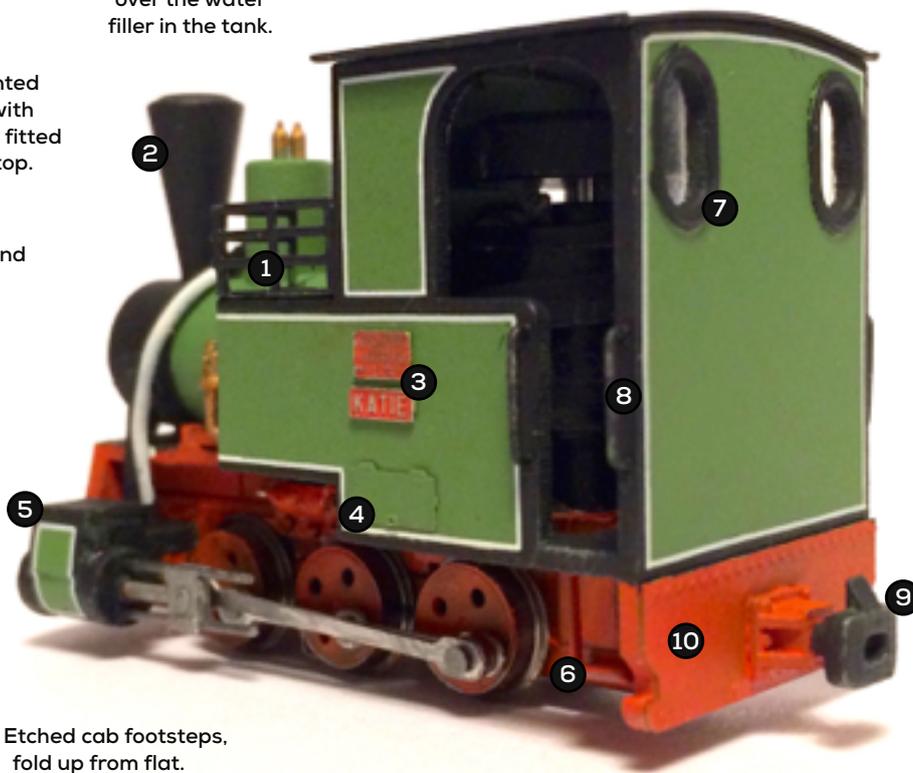
6 • Etched cab footsteps, fold up from flat.

7 • Etched window spectacle frames.

8 • Cab handrails formed from 0.4mm brass rod and fitted in pre-formed holes.

9 • 3D printed buffer.

10 • Etched overlay for rear buffer beam.



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.

Contact Details

www.narrowplanet.co.uk

james@narrowplanet.co.uk

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