

Motor Rail 65/85hp Diesel Locomotive

NPL-013



Prototype Info

This purposeful looking locomotive was unique in the Motor Rail catalogue as an 0-6-0. The 10 ton loco was shown in the 1932 catalogue, although only the prototype was built and despite being recommended to foreign customers on sugar plantations no orders were made.

It utilised a Dorman 4RBL diesel engine and featured a 4 speed gearbox driving the centre axle, with chains transmitting drive to the forward and rear axles. It's design was quite advanced compared to other Motor Rail locomotives of the period, and it suffered from problems with the transmission. The prototype was never sold and was scrapped at the works.



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

Parts required:
0.45mm and 0.9mm
brass rod.
Glazing material.

Tools required:
Sharp craft knife or scalpel.
Tweezers and small
screwdrivers.
Needle file.
Emery paper or boards.
Superglue.

About the kit

The kit is comprised of a fret of etched nickel silver detail parts and a 3D printed plastic body shell and detailing parts. Only simple 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 wax material may still be present on the body shell. The plastic used is quite brittle so handle the raw print with care, yet it is easily cleaned up and smoothed with a sharp knife and fine wet and dry paper or emery boards - and then rinsed in white spirit.

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

Chassis fixing

The kit is designed to fit a Bachmann Plymouth N gauge diesel shunter 0-6-0 chassis. The mechanism is well known for it's good running qualities. Please read assembly notes for details of how to fit the chassis.

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 sides and bonnet. It is also important to remove any residue from the smooth inside surfaces of the print, as this is designed to be a tight push fit on the chassis and if this isn't removed the print may be too tight and cause damage to the model when removed. Once you are happy, rinse the model in white spirit to remove any traces of printing residue or grease from handling.

2) Check the donor chassis

Before removing the body from your donor locomotive it is suggested you run the model in following the manufacturer's instructions. The body can be removed by using a small flat bladed jewellers screw driver to prise the body over the two visible clips in the body shell. Once removed the N gauge couplings need to be removed, and the chassis block may need gentle filing and sanding to remove any blemishes or rough surfaces that may make fitting within the new bodyshell difficult.

3) Test fit the body

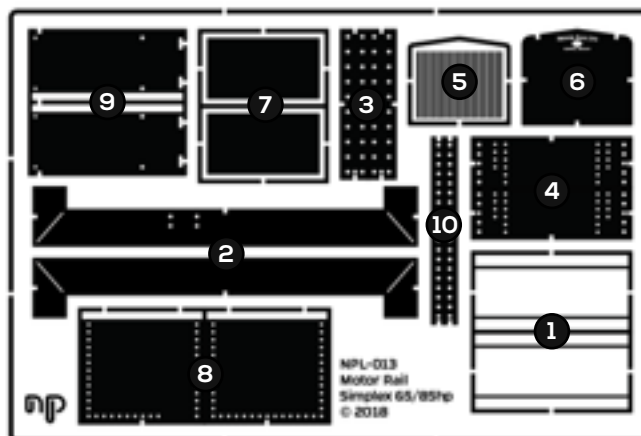
Offer up the kit body to the chassis to check for alignment and fitting. No adjustment should be necessary, but if required remove a small amount of material with a sharp craft knife around the opening, focusing especially on the areas where the motor brushes touch the inside front edge of the cab, and where the locating tabs slot in the chassis. Take your time and only remove a little at a time.

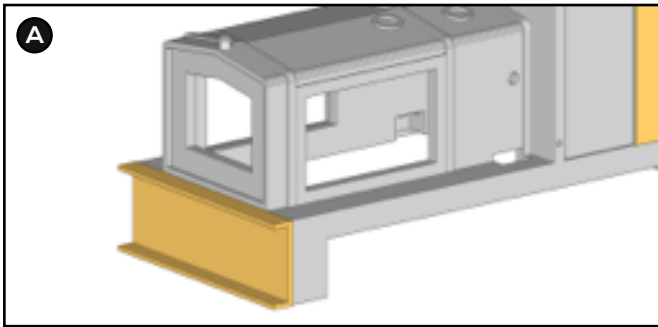
4) Priming

Remove the body from the chassis. It is suggested that a coat of primer is applied to the body at this stage. The model is printed in a material that should be safe to use with most model primers, however we recommend the use of the Halfords 'plastic' primer. Once dry and imperfections in surface finish can be addressed with more 1200 grade wet and dry paper and a further coat of primer.

Detail Parts NPL-013

Carefully remove each part from the fret using a sharp knife on a cutting mat or similar hard surface to minimise the risk of damaging thin parts. Clean up the tags with a needle file.





A

Fold up part 1, the front and rear buffer beam, noting that the hald etch is on the inside of the bend.

B

Apply part 2, noting that the four small rivets should be under the cab door on one side.

C

Part 3 then sits on top of these, with the front edge flush with the edge of the etched buffer beam.

D

Part 4 cab be glued onto the buffer beams, noting the top edge should have a full row of rivets. Part 5 must be fitted before part 6 to form the radiator. Parts 7 can be fitted to the sides. The 3D printed sand boxes, couplers and optional weights can be fitted. A small piece of 0.4mm brass wire should be added to the coupler to form a hook.

E&F

Part 8 are handed, the one with a complete row of rivets should go on the side that has the frame with 4 small rivets. Part 9 fit with the hinges on the right hand side, and part 10 sits at the edge of the roof. Cab door handrails can be formed in 0.4mm wire, and the exhaust can be formed from 0.9mm brass wire and fitted to the hole in the side of the bonnet.

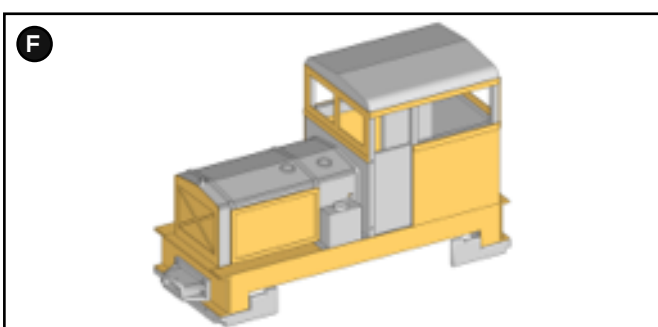
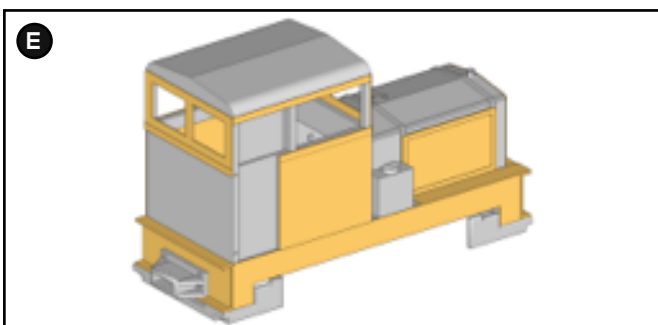
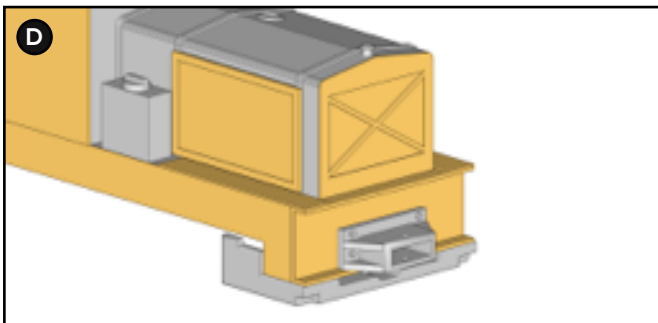
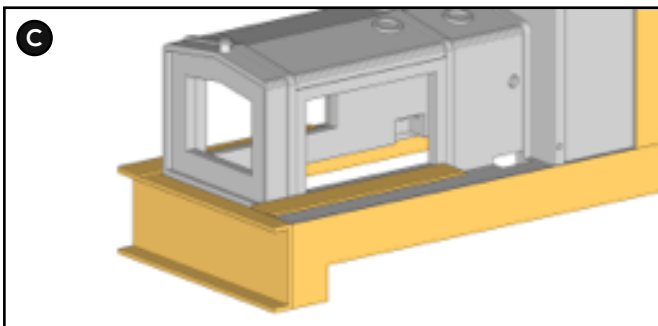
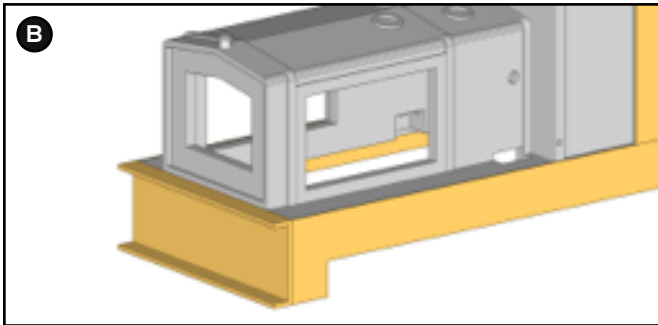
Painting and finishing

It is presumed that the prototype was finished in the usual Motor Rail green, similar to the 'Mid Bronze Green' used on period Land Rovers. Glazing material should be added from the underside of the body. A crew member can be added, a number of figures from the Dapol workmen range will fit with major surgery, to be glued to the top of the motor block. Use a varnish or laquer to seal your model, before finally push fitting the chassis.

About Narrow Planet

Narrow Planet was founded in 2010 and offers a custom etching service for unique nameplates, works plates and number plates for your model railway locos and stock. In any size or shape from 2mm:ft to 16mm:ft scales. Many manufacturers' styles are available, our full range and ordering information can be found on our website.

This kit was designed by James Hilton, If you have any queries about the model or instructions please get in touch.



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