

# Pi PIL-001C Flameproof Hibberd Planet



## Prototype Info

F. C. Hibberd & Co Ltd, founded in 1927, built a large number of industrial locomotives marketed under the 'Planet' name. Standard models including the basis of our 18ton model used a Dorman 4DL (77.5hp) with the larger 20 and 23 ton models using a Dorman 6DLIII 123hp. The engine drove through a Wilson 4 speed gearbox and then via roller chain to each axle.

**Please note, the model shown in photographs is pre-production sample fitted with a cut down Devonport cab. Kit features a standard height cab with peaked roof.**

## 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.

## Assembly Notes

### 1 • Clean up the 3D printed body

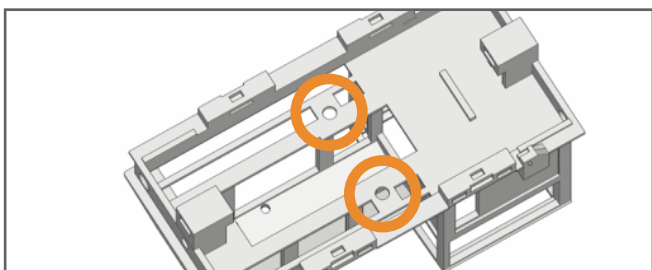
Use a fine wet and dry paper (640 then 1200 grade if possible) in water to achieve a smooth finish to the top of the bonnet. Once you are happy, rinse the model in white spirit to remove any traces of printing residue or grease from handling.

### 2 • Assemble the chassis

It is suggested you assemble and run the chassis in gently before building the body kit, to confirm it's operation. See separate instructions.

### 3 • Chassis body fixing

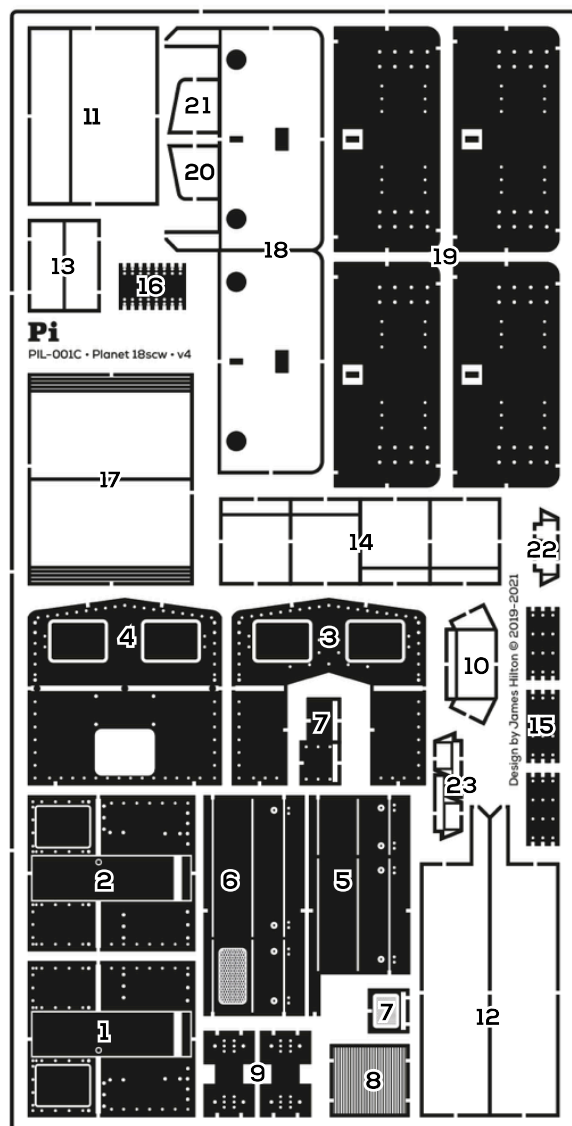
Add the pair of 2mm diameter disc magnets in the mounting holes, ensuring their polarity matches those in the chassis.



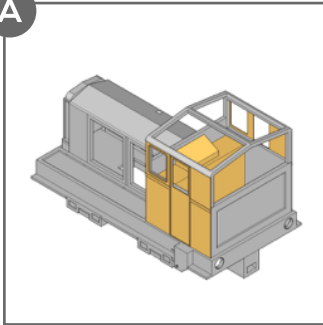
### 4 • Prepare the parts

Cut the radiator and sprue of parts from the body and clean up to remove any powdery residue using an old toothbrush, being careful not to snap any fragile parts.

Carefully remove the etched parts from the fret using a sharp blade on a hard surface. Clean up tabs with a needle file. Follow the instructions overleaf for fitting these parts, and note the illustrations are for the original version, any differences are noted in the text in **bold**.

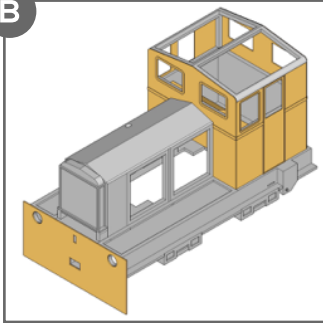


A



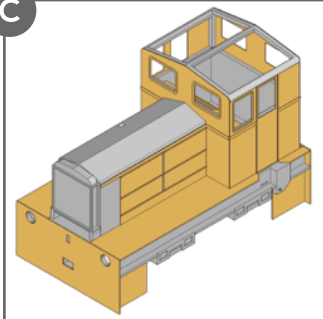
Glue the 3D printed radiator in place, fit the grill (8). Form the cab controls using parts (10) and (11), note half etched form the inside of a fold. Fit (1) and (2) noting the side window is at the front. Locate by tucking the top edge under notch and check it is flush with the front edge.

B



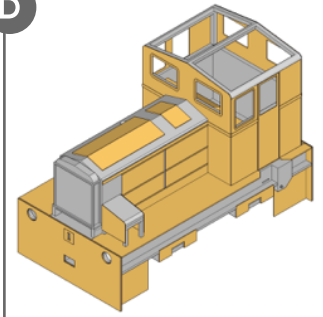
Cut the front buffer beam (18 - the one without wings) and fit. Cut out the cab front (3) and rear (4), noting these should slightly overlap the cab sides fitted previously.

C



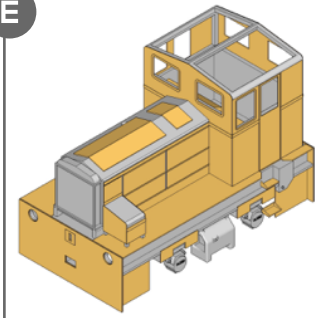
Fit the footboards (12) and rear buffer beam (C1). Cut out and fit the bonnet side panels (A5 and A6) noting they are different each side. Fold and fit the corner plates (14) the folded end fits on the inside.

D



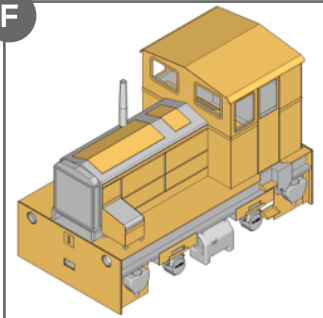
The compressor cabinet is a separate part, adding the front (20) and back (21) etched overlays before attaching to the bonnet. Select the buffer beam overlays (19) depending on your choice of coupling. Fit the bonnet hatch (13) and the axlebox etches (9).

E



Fit the grill above the compressor housing (7) the band is at the base, and the side on the housing (7) the band is at the top. Add the 3D printed axleboxes and ballast weight. Fold up the cab top steps (22) and lower cab steps (23) and glue in place.

F



Add the corner plates (15) to the chassis end plates and the axlebox overlays (15). Add 3D printed sandboxes. Fit exhaust stack and vents (not shown in illustration, refer to photos). Form the roof, the handle of a needle file can be used to roll the edges, but don't glue yet.

## Detailing

In addition to the parts in the kit it is possible to add tensioning bars between the axleboxes and the centre ballast weight, and the back of the cab step (see photos of the finishing model in the instructions). Using the handrail knobs provided form the cab side handrails and cab rear handrails from 0.4mm brass rod. Secure in place with glue. We recommend either RT Models or Gibson 24" industrial buffers, if painting wasp stripes on the buffer beams then leave these until after painting. Windscreen wipers can be added from brass rod, staples or specific detail etches. The air filters and exhaust should be added towards the end of the build, to avoid damage. Do not fit the roof until after painting.

Couplings are left to the modeller to source, a slot for a Smiths 3 link coupling is provided, along with the option of an NEM mount which will accept either a tension lock or Kadee.

## Painting and finishing

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. A wide variety of industrial finishes have been applied to the prototype over the years, with many of the flameproof variants that were built for the Royal Navy in green with black handrails and edging. Add the glazing from clear thin sheet styrene or acetate before securing the roof (B10), and finally fitting the chassis.

## About Planet Industrials

Planet Industrials was founded in 2019 and offers a range of models and components in 1:76 scale specifically suited to industrial prototypes.

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

## Contact Details

[www.planetindustrials.co.uk](http://www.planetindustrials.co.uk)  
[info@planetindustrials.co.uk](mailto:info@planetindustrials.co.uk)

Planet Industrials  
 PO Box 297  
 Bexhill-on-Sea  
 TN40 9HF

PIL-001C • first issue • November 2021

