



Pi

PIL-006 Huwood Hudswell 68hp Mine Locomotive

Prototype Info

Hugh, Wood and Co. Ltd specialised in the supply of mining equipment and in collaboration with Hudswell developed a range of 68hp, 100hp, 102hp and 204 hp flame proofed mine locomotives in the late 1940s. Available in gauges from 1'11" to 3'6" and either 0-4-0 or 0-6-0 arrangements this successful design utilised a Gardner engine coupled to a 3 speed gearbox by a hydraulic coupling. Utilised by the newly nationalised National Coal Board at mines across the country they could also be seen working surface trains, some acquiring larger cabs as a result.

About the kit

The kit is comprised of a fret of etched parts and a 3D printed core. Basic preparation has already been completed but any waxy residue remaining on the print can be removed by soaking in white spirit for a few hours. We recommend sparing use of liquid superglue for adding the roof etch and details, ideally using a bottle with a thin applicator nozzle.

The plastic used is flexible but slightly brittle. If there is any deformation in the 3D print then submerge in warm (not hot water), gently reform and then immediately submerge in cold water. The kit is designed to fit a Bachmann N gauge 'Percy'.

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

Assembly Notes

1 • Check the donor model

It is suggested you run the chassis in gently before assembly, to confirm it's operation.

2 • Prepare down the donor chassis

Remove the cross-head screws from the ends of the chassis allowing the body and running board to be removed. Resting the chassis on it's side use a fine nosed pair of pliers to unscrew the rear crankpin. Remove the connecting rod and cross head assembly and replace the crank pin. Repeat for the second side. Unclip the cylinders from the chassis. Unscrew the circuit board, and cut the supporting posts off the chassis with a pair of side cutters being careful to not damage or cut the wires to the motor or board.

3 • Assemble the body

Separate parts from the 3D core and clean up the sprue marks with a blade or fine abrasive paper. Add the front and rear frames to the body, these should push tightly in place and can be secured with superglue.

Remove the etched parts from the sprue. Clean up tabs with fret snips and a needle file. Form the slight angle in the body panels by scoring lightly on the back, connecting up the horizontal slots (see photos) and bend lightly along a straight metal ruler. Glue these in place. Using 0.4mm brass wire add the connecting pipework and levers in the cab area, if you desire. Fold the cab roof through 90 degrees, noting the half etched fold line is on the inside.

4 • Detail the body

The half etched details that fit around the bonnet radiator can now be added carefully, noting their orientation. Check their fit before securing with superglue. The etched buffer beams should be added followed by the 3D printed buffers, their bottom edge should align with the bottom of the buffer beam. A short length of 0.4mm wire will form the coupling pin allowing use of normal 009 couplings on adjacent stock. Test fit the chassis, tucking the circuit board in first. This is inserted 'backwards' so that Percy's cab floor is under the front of the Huwood. Once happy with the fit, glue the brake blocks between the wheels. These require slight adjustment to fit, trim carefully with a sharp blade and superglue in place. *The small lights shown on our prototype model are from RT Models. The cab will allow a seated driver to sit sideways, as per the prototype.*

Painting and finishing

The prototype were painted white when used underground for visibility. We have used Humbrol 28 to good effect. *Numbers shown on our prototype are from the Planet Industrials sheet PIC-002.*

About Planet Industrials

Planet Industrials was founded in 2019 and offers a range of ready to run models, kits 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.

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