

I2A40070
4mm / OO scale
ZRA "Sewing Machine"
DEMU Engine
Carrier Wagon kit

4mm
OO



Thank you for purchasing this kit.
We are a small designer / manufacturer and we really appreciate your support.

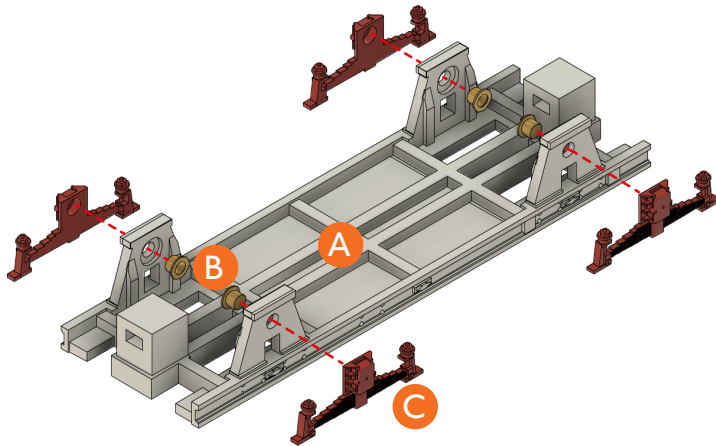
To complete this kit you will need:

Sharp knife or scalpel
Files and sandpaper
Cutters and pliers
Super glue
Filler, paints and transfers

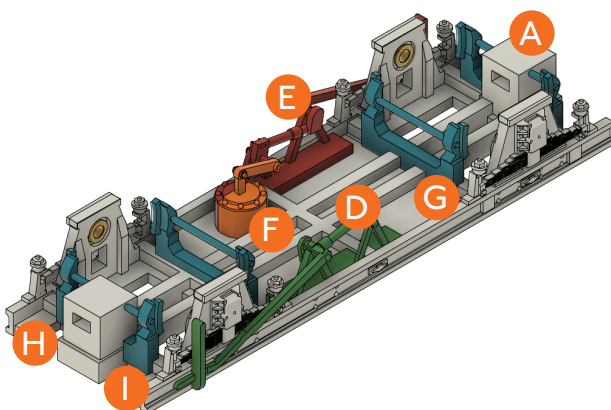
Before you start, there are a few things you need to know with regard to working with resin 3D printed items:

- 3D printed resin is very brittle. It should not be roughly handled or dropped.
- Resin prints can be glued with cyano adhesives such as super glue. Solvent adhesives such as MekPak, Plastic-weld and Liquid Poly are **not** suitable.
- Resin prints cannot be trimmed with knives, scalpels, or trimmers. Attempting this will result in a shattered piece.
- Resin prints can be shaped and trimmed using files (we recommend diamond files) and sandpapers.
- Resin prints can be painted with acrylic and enamel paints.
- We strongly recommend the use of a filler primer to correct any surface support blemishes or layer lines which are an inevitable unwanted side effect of the process.
- As resin printing is a wet process, some shrinkage of components is inevitable. Whilst we engineer this in at the CAD stage, some manufacturing shrinkage is inevitable and can be corrected with fillers. We highly recommend Vallejo Liquid Putty or Revell Plasto.

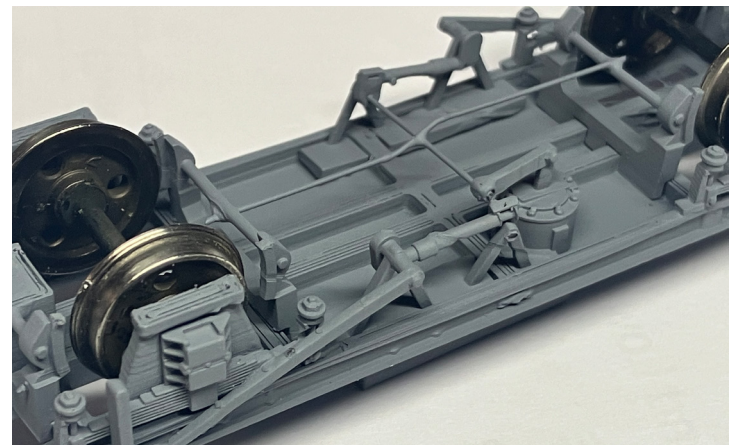
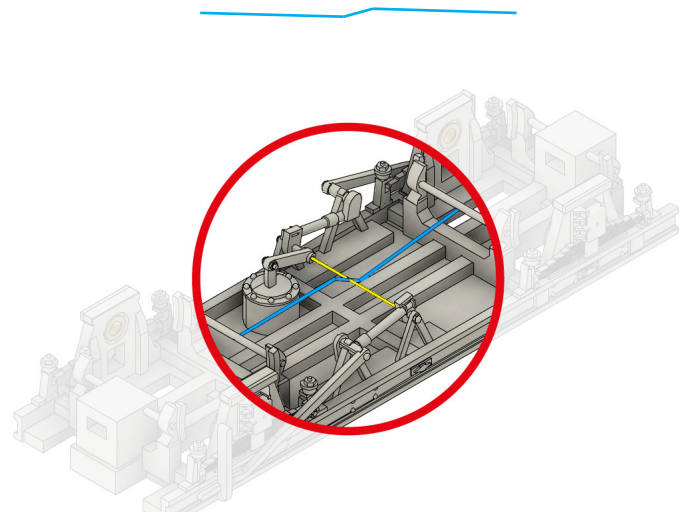
1) Glue the brass pinpoint axle bearings (B) in to the inside of the W-irons on the chassis (A). These need to be inserted as far as they can go, so the shoulder face is almost flush with the back of the W-iron. Glue Spring / Axlebox assemblies in position.



2) Glue the Handbrake Rigging (D) and (E) to the chassis (A) in the positions shown. The gap in the base plates is to accommodate the central boss on the chassis. Glue the rest of the brake cylinder (F) to the other half of the brake cylinder. Glue the brake shoe hangers (G), (H), and (I) to the chassis

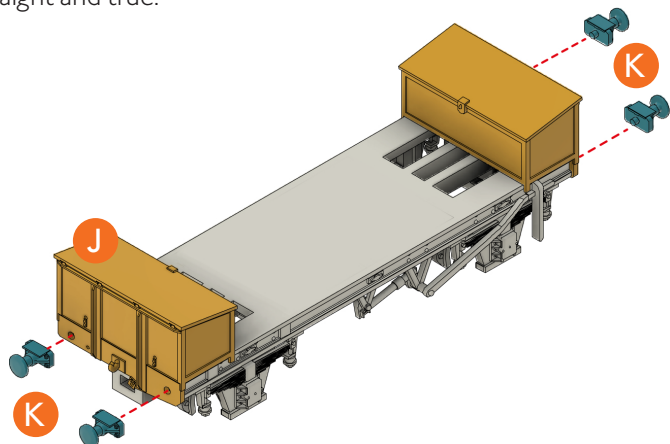


3) Cut a length of brass or nickel silver rod (included) to form a crossbar between the brake hangers, as shown in yellow below. Glue in place. Using the remaining brass or nickel silver rod, bend to shape using pliers to form the brake pull rod, as shown in blue below. Glue in place.



4) Paint the completed chassis matt black.

5) Glue the Toolboxes (J) centrally on to the chassis. The back of the bufferbeams should be flush up to the end of the chassis. Glue the buffers to the bufferbeams, making sure that the tread plates are on the top of the buffers and that the buffers are straight and true.



NOTE:

Take great care when inserting wheels in to the bearings as not to break the W-hangers. The best method is thus:

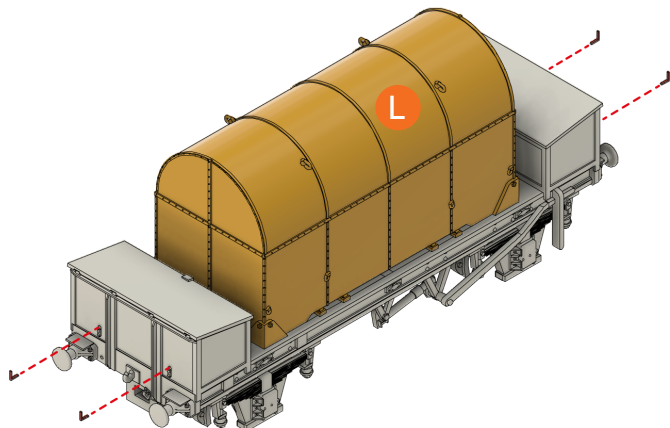
Locate one pinpoint axle into the brass bearing cup. Lower the other side towards the bearing and GENTLY and SLOWLY ease the opposing W-iron out VERY SLIGHTLY so the other end of the axle eases in to the bearing.

6) Attach the metal weights centrally on top of the chassis using the self-adhesive pads, ensuring that the Engine Hood (L) can still fit over them. Glue the Engine Hood (L) centrally within the remaining space on the chassis, covering the weights.

Using the staples provided, make four lamp iron brackets:

- Cut two staples in half.
- Trim one end of each "L" shaped piece so that it measures approximately 1.6mm in length.

Glue the lamp iron brackets in place as shown.



Painting Guide:

Chassis - Matt Black

Toolboxes - Matt Engineer's Olive Drab

Engine Hood - Pale Grey Aluminium

Corner bracket "feet" on Engine Hood - Matt Black

Lamp Iron Brackets - White

Handbrake Pin Handles - White

Lettering - White

A colour photo can be found on the "Blood and Custard" website here:
<https://www.bloodandcustard.com/BR-2H-3H-3T-Hampshire.html>