



Penrhyn Railway Quarrymen's Coach

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Assembly Instructions

32mm Gauge only

This is an advanced kit with many small and delicate parts. Before you start assembly Please read through these instructions carefully and familiarize yourself with the pictures and method of assembly.

It will be necessary to have a few tools to hand such as clamps, a sharp modelers knife, snipe nose pliers and elastic bands.

Most parts can be dry assembled prior to gluing so you can familiarize yourself as to how the parts fit together.

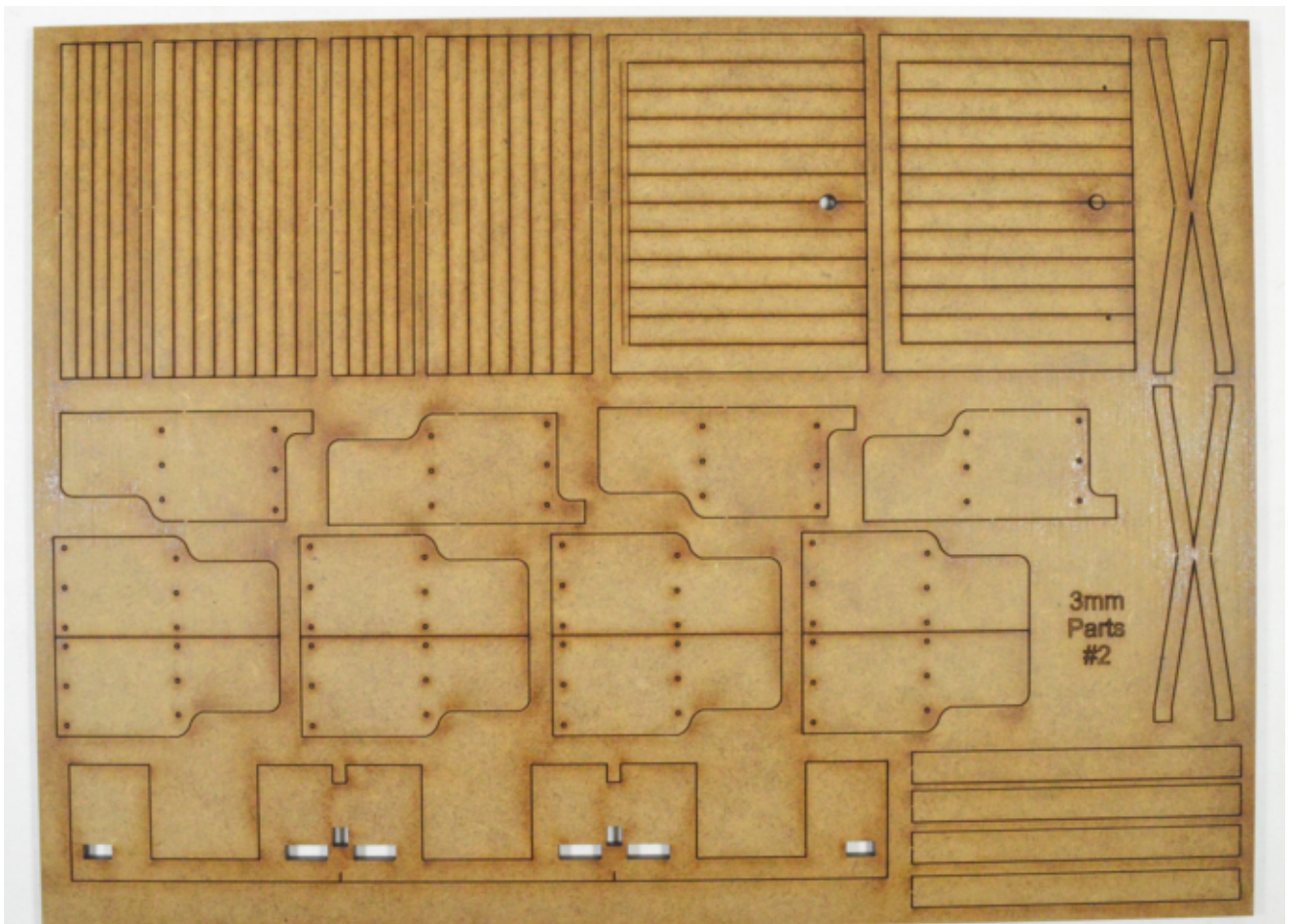
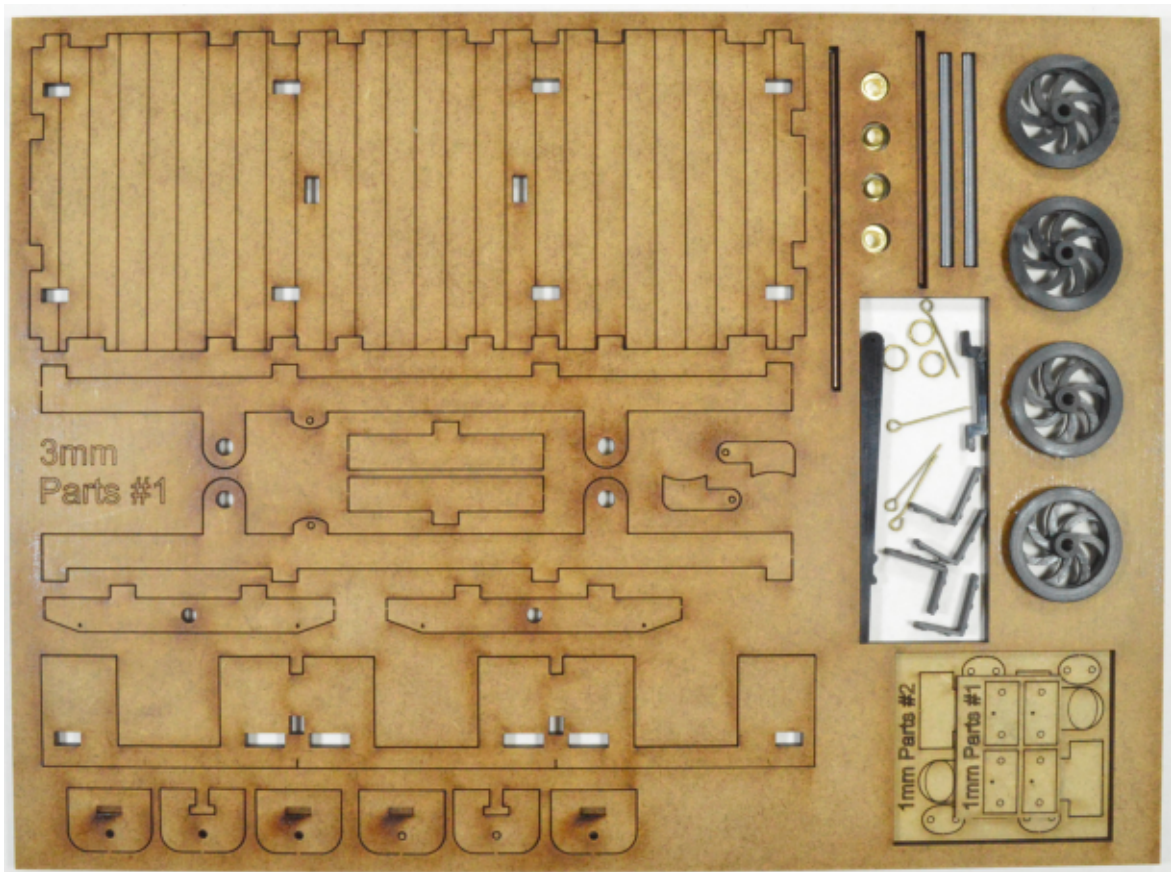
It may be easier if some parts are painted or stained prior to assembly.

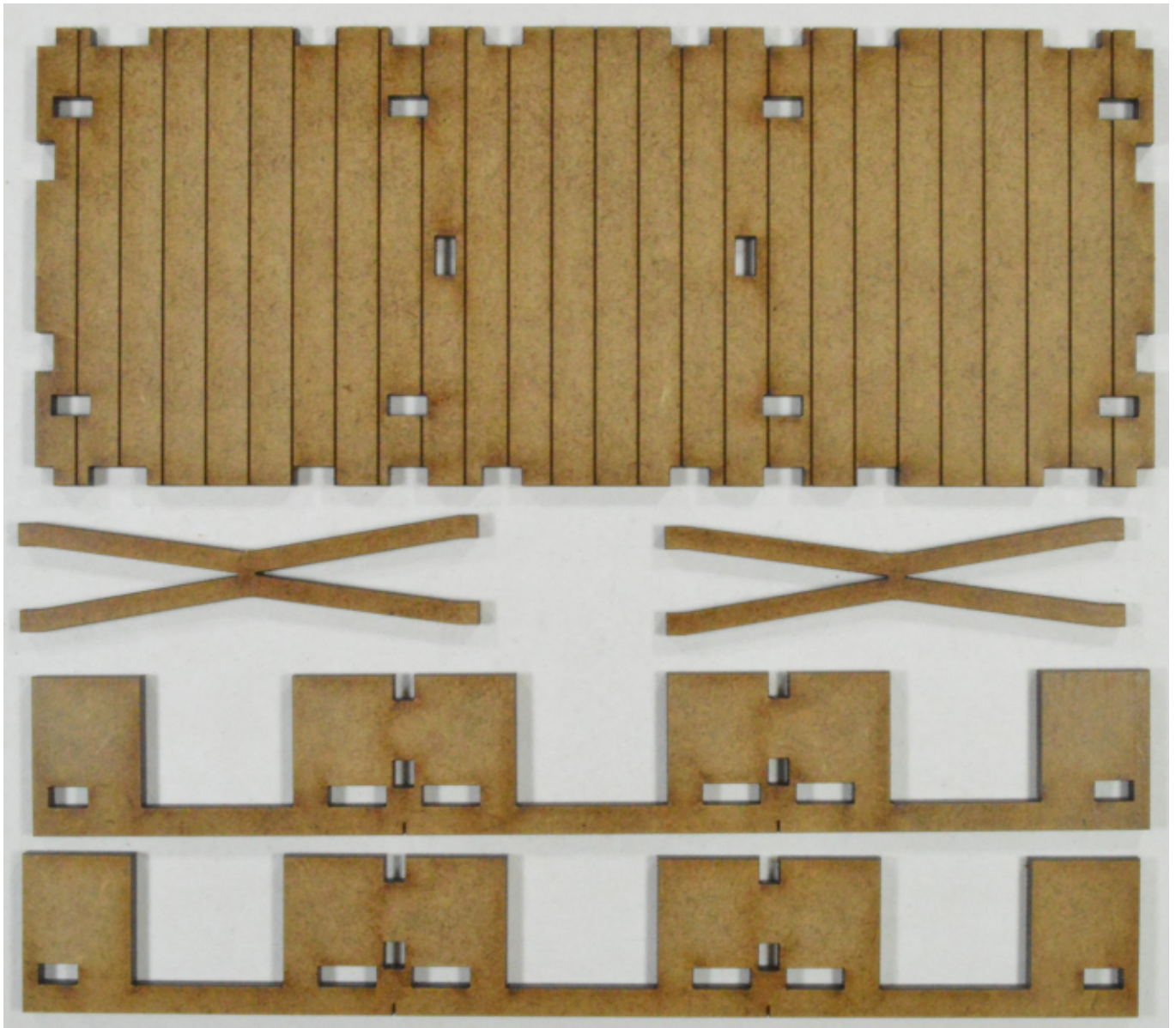
PLEASE NOTE

This kit is made from 3mm and 1mm laser cut MDF, any type of wood adhesive such as EVO-STIK resin W is suitable. SUPER-GLUE is probably best for attaching the smaller detailing pieces.

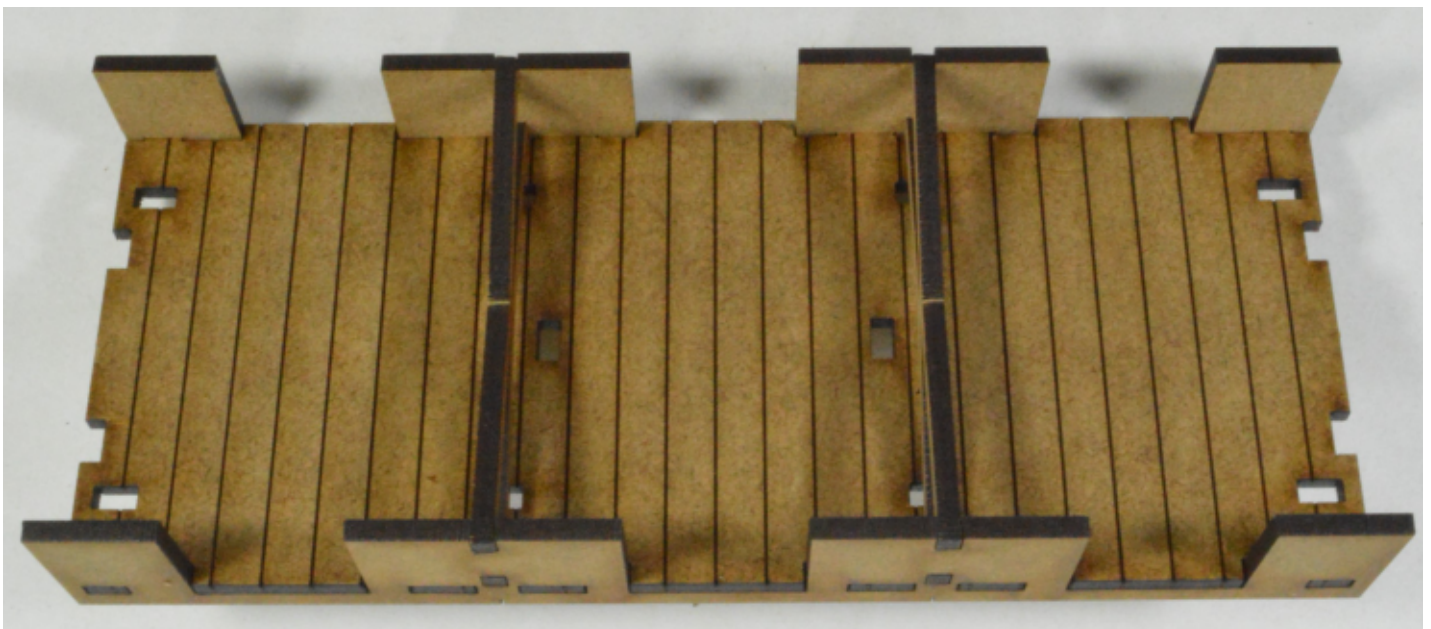
Cut the breakout tabs with a sharp modeling knife rather than snapping the parts out as this may cause damage to the wood.

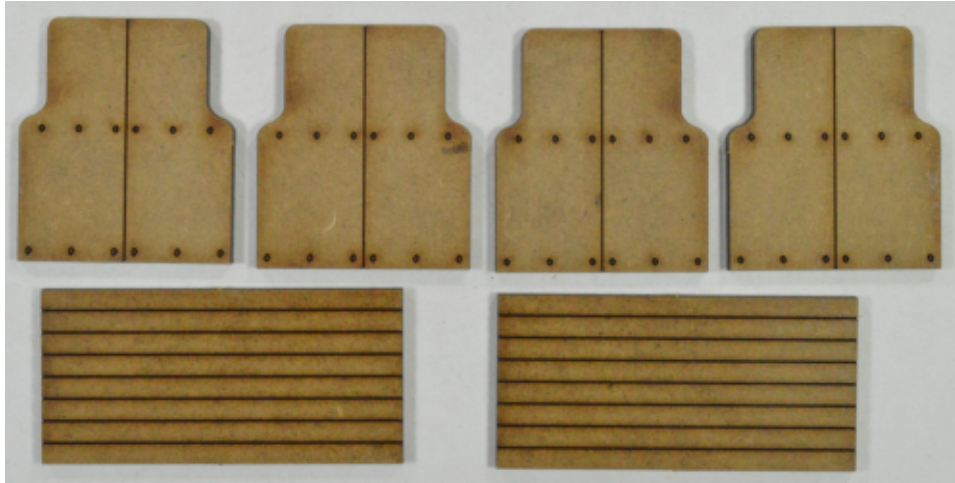
This kit is supplied with wheels, axles, bearings, coupling hooks and detailing parts.





Locate the 5 pieces that make up the floor, seat supports and X frames and assemble as shown. Put one side on first, then the X pieces and then the other side.



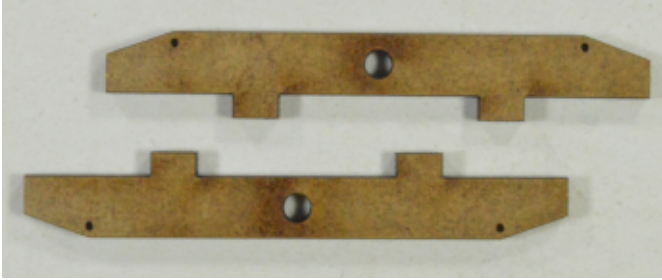


Locate the 6 pieces that make up the 4 seat ends and the 2 seat boards for the 2 middle seats, ensure that the engraved detail is facing outwards, place the floor / seat supports assembly on a flat surface and fit the end peices to the seat supports ensuring that they are aligned centrally to the X pieces and fush with the flat surface. When the glue has set fit the seat boards ensuring that the engraved detail is facing upwards and that they are aligned centrally with the seat ends as shown.



There is a very small alignment mark in the bottom of the seat supports, line up the engraved line in the seat end with this as shown.

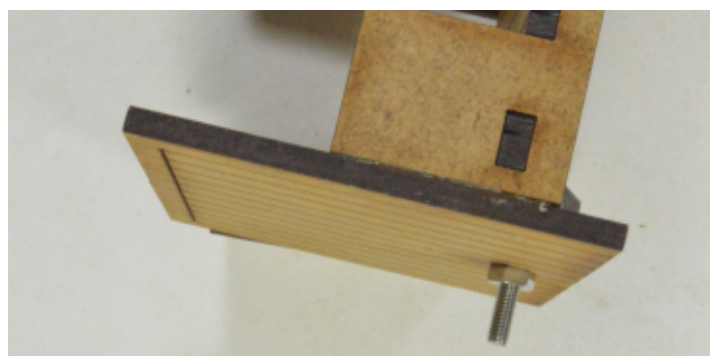


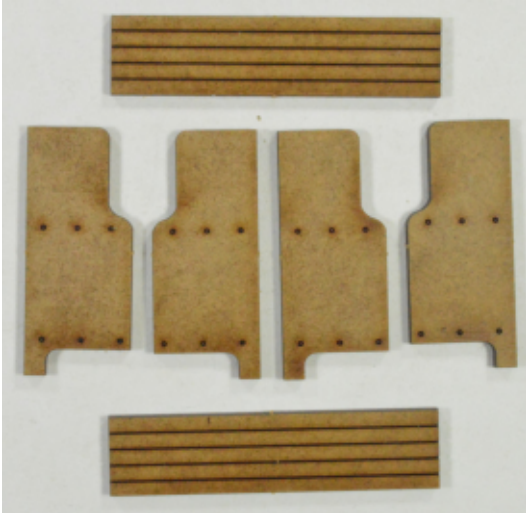


Locate the 2 underframe end pieces and fit them to the underside of the floor between the side pieces ensuring that the tabs are located and that they are perpendicular to the floor as shown.



Locate the 2 end pieces and fit them to the underframe end pieces and sides ensuring that the holes for the buffer line up, use the M3 nuts and bolts supplied with the kit to achieve this, make sure that the end pieces are lined up properly with the sides as shown.

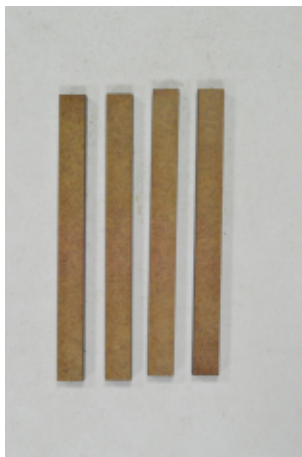




Locate the 6 pieces that make up the 2 end seats boards and 4 end seat sides. The seat end pieces are handed, 2 for the left side and 2 for the right side.

Assemble them as shown ensuring that the engreaved detail is facing outwards and that the long edge is properly aligned with the end piece.

Fit the seat bench as shown below

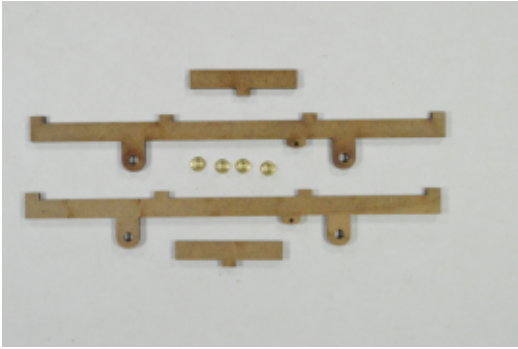


Locate the 4 pieces that make up the seat back rests and fit them as shown to the end pieces and between the side pieces of the middle seats.



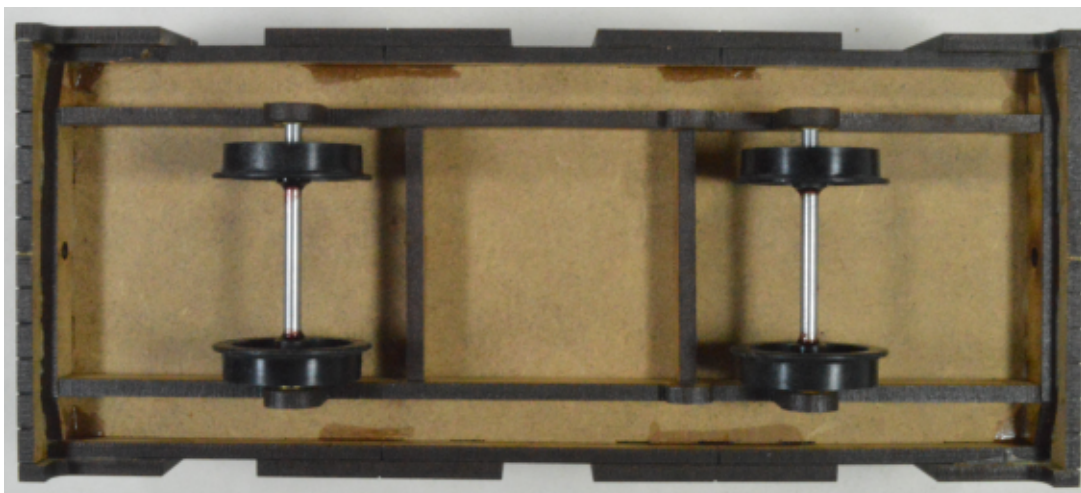
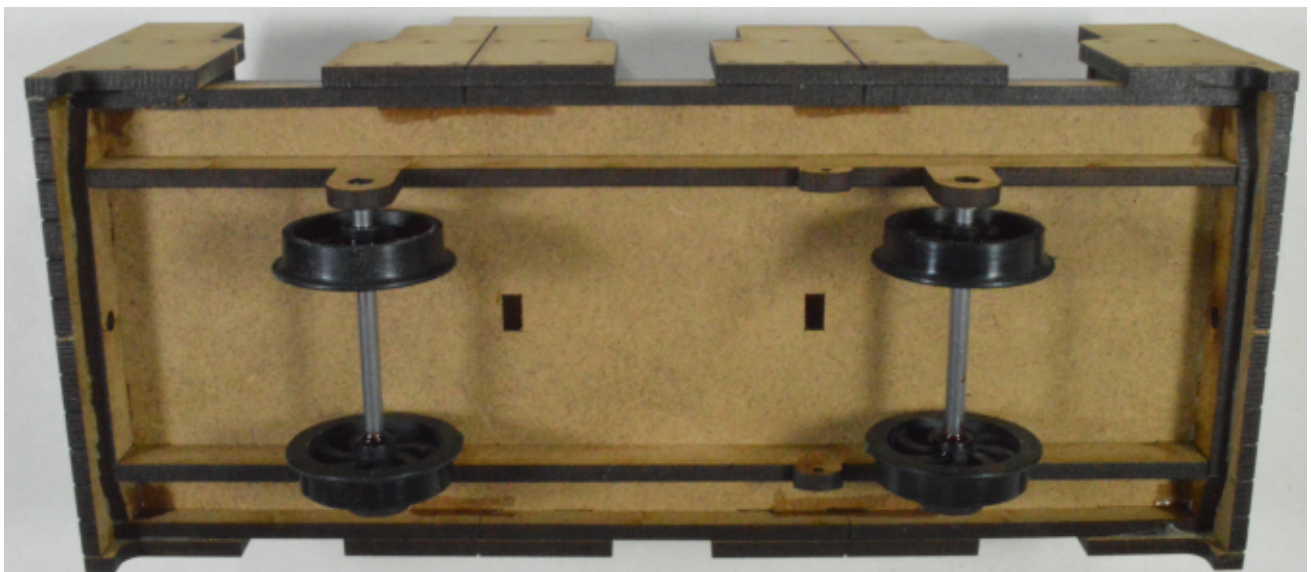
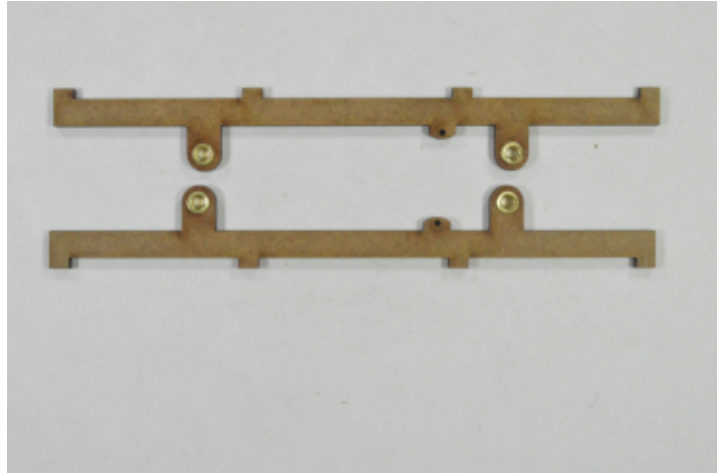
Locate the 4 wheels and 2 axes, fit the wheels onto the axes with a 28mm back to back spacing.

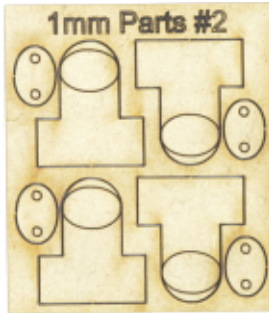




Locate the 4 pieces and 4 brass bearings that make up the underframe and press the bearings into the as shown, These pieces are handed abd they fit into the underside of the body with the upstand for the brake gear at the same end

Fit the underframe as shown ensuring that the bearing flanges are inwards and the brake fittings are at the same end. then fit the frame spacers as shown.

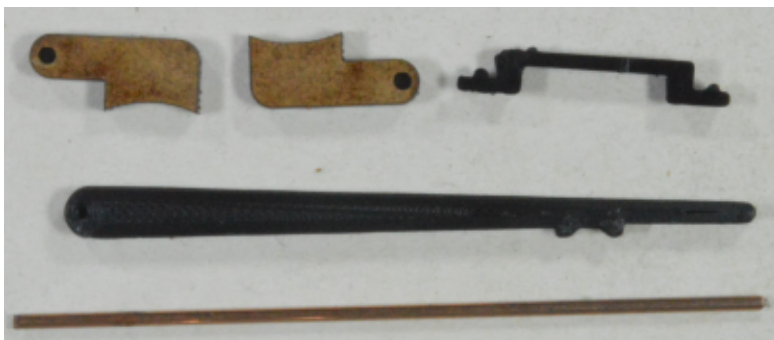




Locate the fret 1mm Parts #2 which are the axle boxes and glue the oval part onto the oval marking ensuring that the engraved detail is facing outwards as shown.

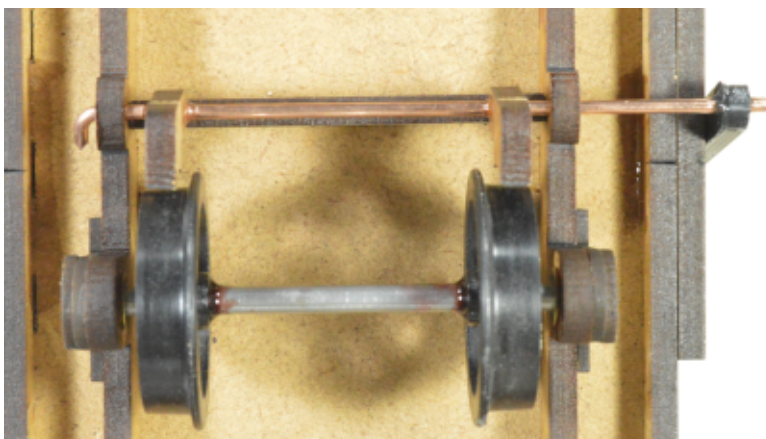


Fit the axle boxes to the wheel hubs ensuring that no glue gets into the wheel bearing.



Locate the 4 pieces that make up the break mechanism and the longer of the 2 rods supplied with the kit.

Bend about 6mm of the rod at right angles as shown.



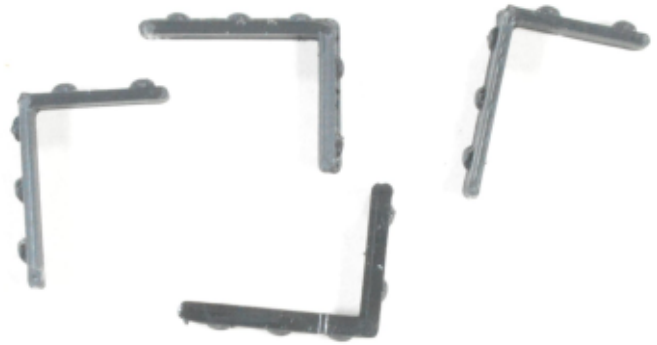
With the break mechanism at the end towards you feed the rod through the hole on the left side of the frames, then through the brake blocks, ensuring that the curved side is to the wheel, then through the hole on the right side of the frames.



Glue the brake handle bracket to the seat end piece a couple of mm from the top then fit the brake handle behind the bracket and onto the rod ensuring the lugs on the brake handle are facing to the right. Trim off any excess rod flush with the brake handle.

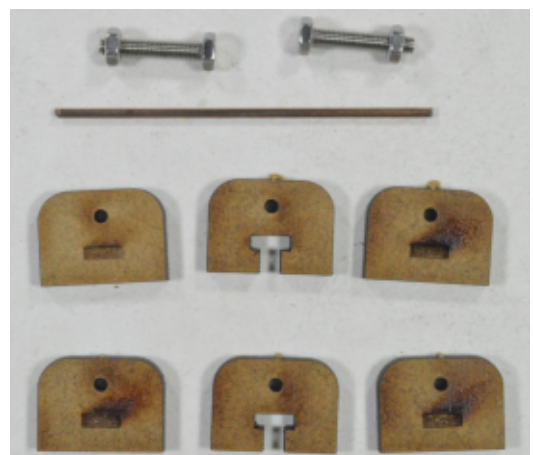
With the brake handle to the left the brake blocks should be against the wheels if so then super glue the handle and the blocks to the rod.

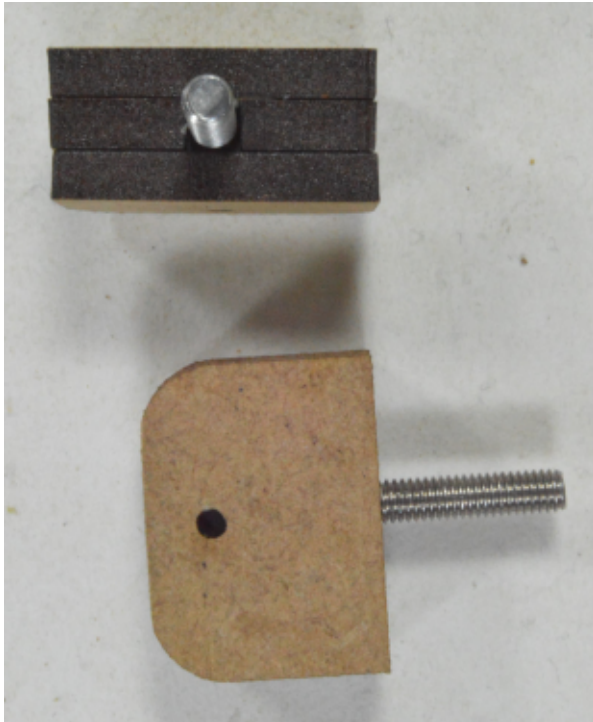
Locate the 4 3D printed parts that are the corner angles.



Fit them as shown ensuring that the part with the 3 rivets are to the sides.

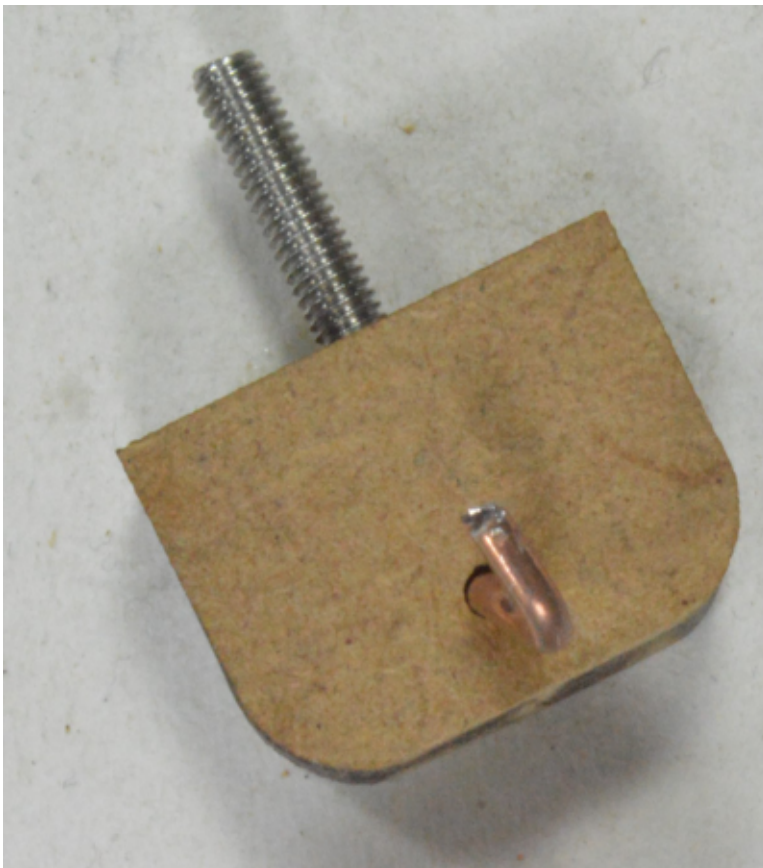
Locate the 6 pieces that make up the buffers along with the 2 nuts and 2 bolts and the short piece of wire.





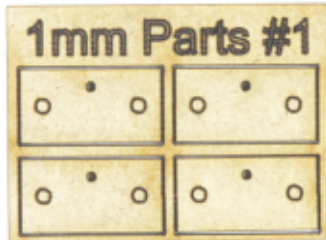
With the bolt head in the middle piece with the T slot, line up and clamp the 2 outer pieces ensure that the engraved groove is to the inside to accomodate the bolt head.

Bend the wire into 2 hooks and push it through the hole in the buffer as shown.





Locate the 4 pins and 4 rings that make up the fixings for the safety chains and assemble them as shown.



Locate the fret 1mm Parts #1 which is the back plates for the safety chains. Push the pin through the small hole in the plate ensuring that the engraved detail is facing out, trim off the pin to 3mm length and push the pin into the hole near to the bottom of the end piece and ensure that it is aligned with the bottom edge.



Finally fit the buffers into the hole at the bottom of the end piece, the buffer is attached with an M3 nut.

