



## Ffestiniog Quarry Workmen's Coach Type 2a

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### Assembly Instructions

32mm and 45mm Gauge

All wooden pieces of this kit will benefit from a light sanding with fine grade sand paper to remove any surface texture and the pips left by the breakout tabs.

It's recommended that parts are painted or stained prior to assembly as glue residue will not take stain.

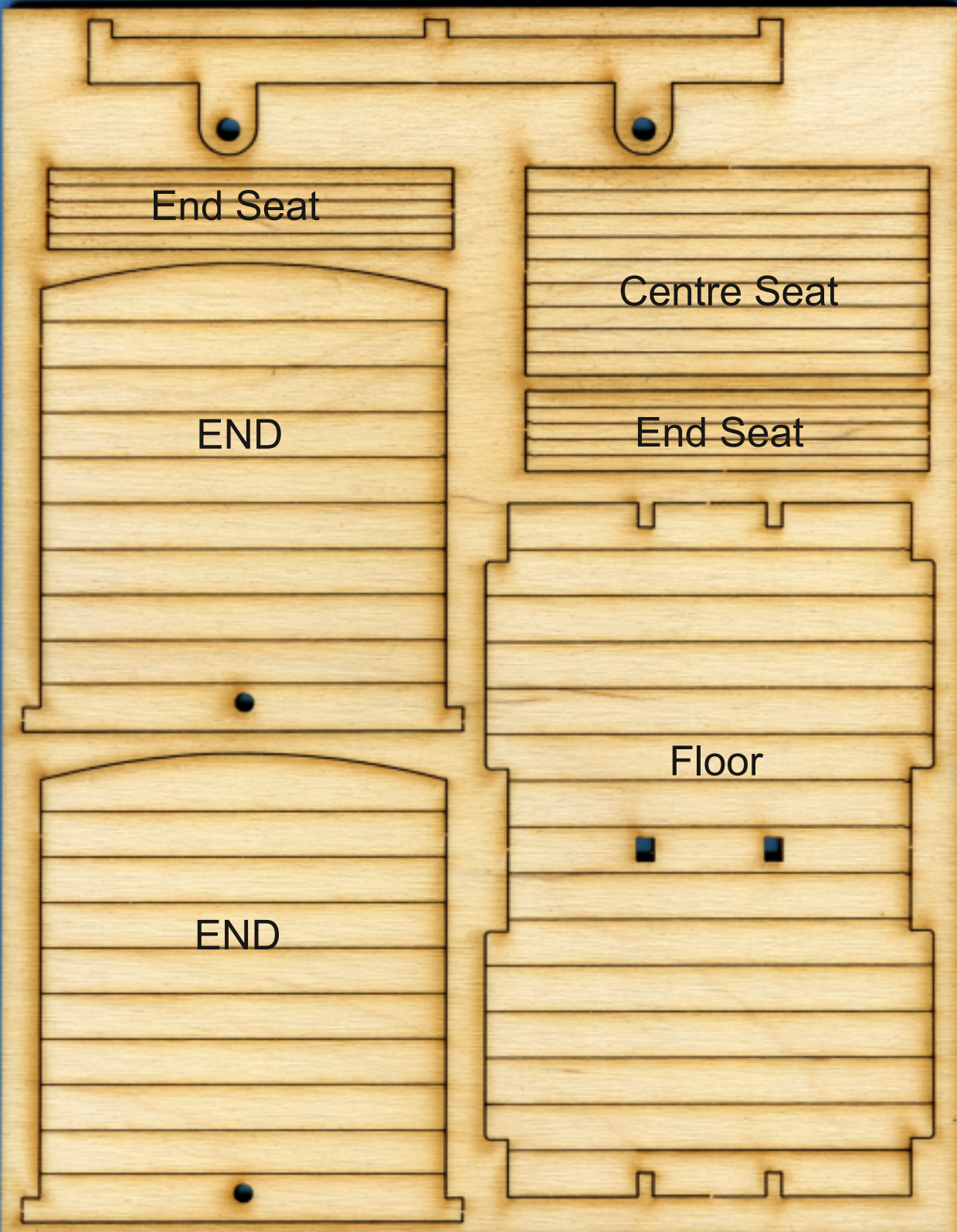
This kit is made from 3mm laser cut MDF. Any type of wood adhesive such as EVO-STIK resin W is suitable, glues of the SUPER-GLUE type are not suitable and should be avoided.

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

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.



End Seat

Centre Seat

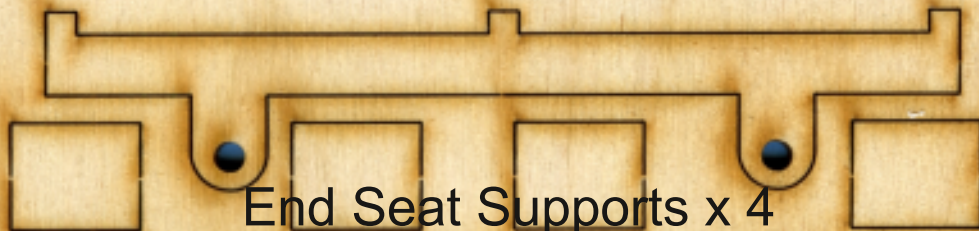
END

End Seat

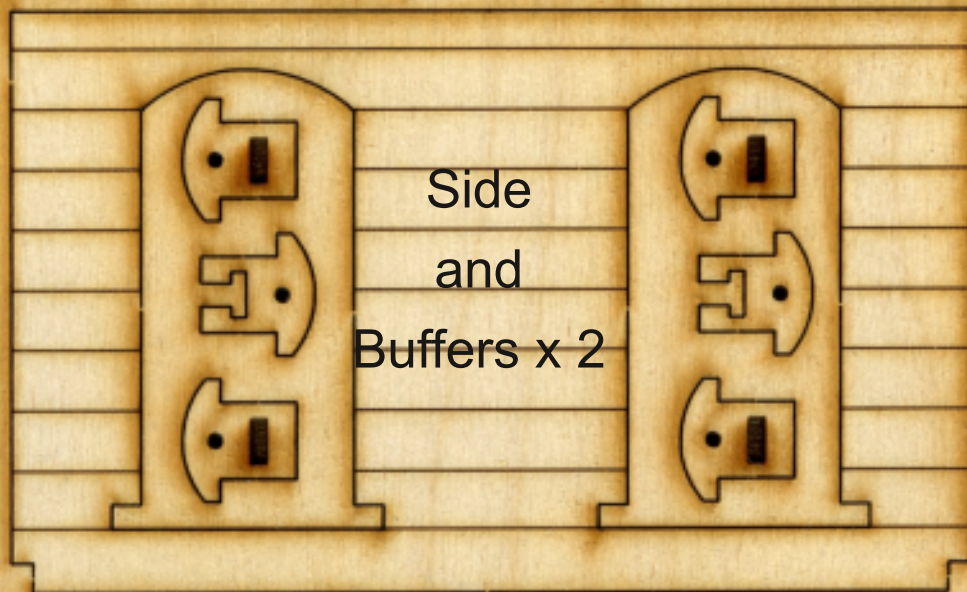
Floor

END

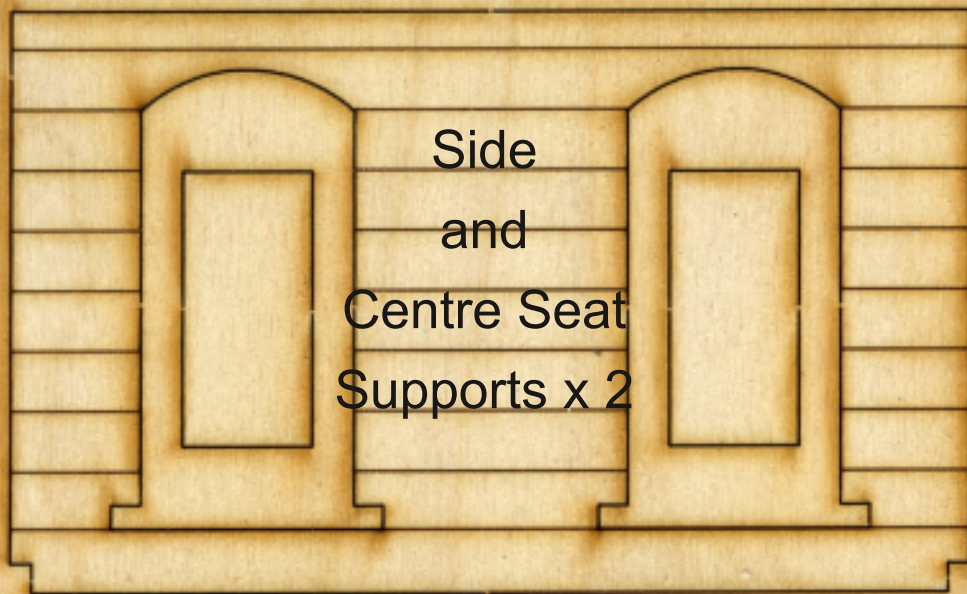




End Seat Supports x 4

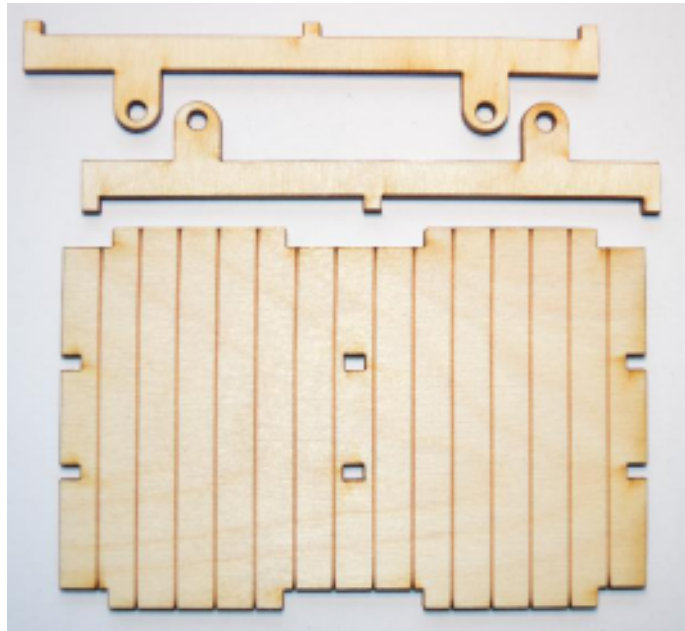


Side  
and  
Buffers x 2

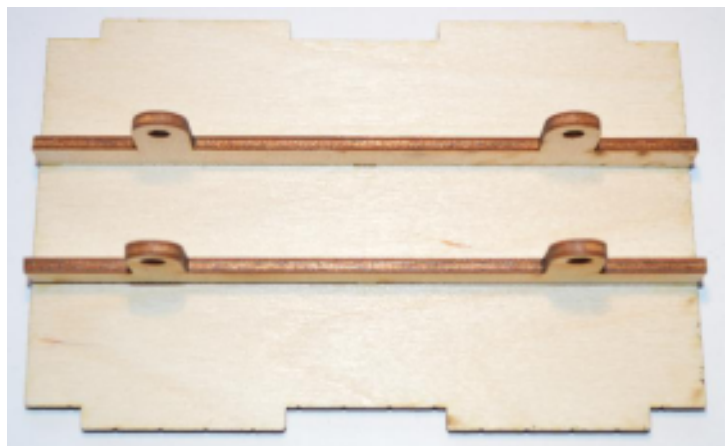


Side  
and  
Centre Seat  
Supports x 2

Locate the 3 peices which make up the floor and the 2 sole bars.



Assemble the 3 pieces as shown by locating the tabs on the 2 sole bar pieces in the the holes in the floor piece and ensuring that the etched lines on the floor piece are facing downwards.



Locate the 2 pieces which make up the sides of the coach.



Fit them to the floor piece using the projecting tabs at the door openings to locate them whilst ensuring that the etched lines are facing outwards and that the sides are pushed fully against the floor piece.



Locate the 2 end pieces.



The end pieces fit between the side pieces as shown. Ensuring that the etched lines are facing outwards, use the locating tabs at the bottom of the end pieces to ensure that the bottom of the end pieces are flush with the bottom of the side pieces.

There is no locating tap at the top of the side pieces as there is no way of disguising them. Ensure that the sides are flush with the ends before allowing the glue to set.

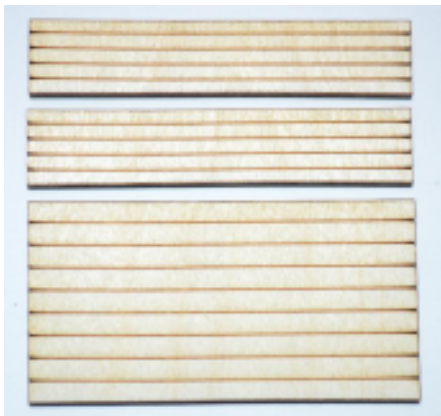


Locate the 6 pieces which make up the seat end supports.





Glue them to the inside of the side peices as shown with the 4 smaller pieces at the ends with their edges aligned to the door openings and the larger pieces in the middle again with their edges aligned with the door openings.



Locate the 3 pieces which make up the seats.

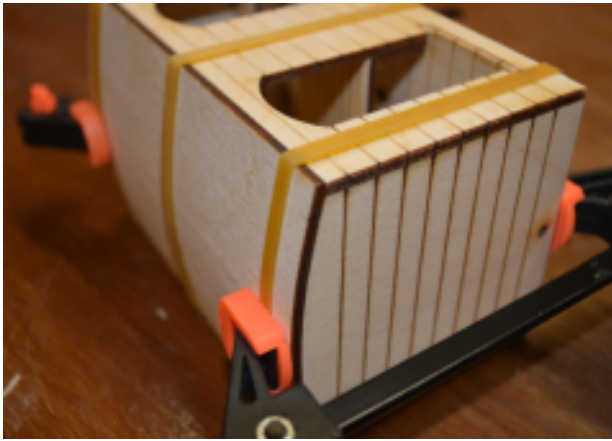


Glue them on to the tops of the seat end supports, as shown, ensuring that the etched lines are facing upwards and that the edges are aligned with the door openings.

At this stage the assembly of the bodywork, the internal parts are now complete and would be a good point to paint or stain the inside.



The roof is deeply scored on the underside to help it bend to the radius of the top of the end pieces, this however does make it rather fragile and will split if it is bent too much.



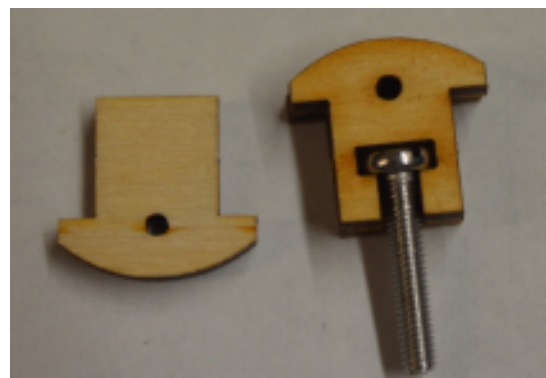
Glue around the top of the ends and sides, then position the roof with the score lines facing inwards. Align the roof so that it is square with the body and clamp it so that it takes up the profile of the end pieces and that the top of the sides are in contact with the underside of the roof. As there will be pressure from the roof to try and open up the glued joints at the side I suggest it is left for 24 hours before releasing the clamps.



At this stage the assembly of the bodywork is now complete and would be a good point to paint the outside.



Locate the parts which make up the buffer. and glue all three sections together with the screw in the middle and the grooves on the outside pieces facing inwards to locate the screw head. Ensure that the small hole in all three parts line up so that the rod for the coupling can be passed through. Finally clamp all three sections until the glue has set.



Locate the 4 brass flanged bearings and fit them into the holes in the sole bars with the flange to the outside. The axle can then be fitted and whilst holding the axle with a pair of pliers the wheels can be pushed / twisted on. Set the back to back distance between the wheels to 28mm. When assembled around 5mm of the axle will protrude from the hub of the wheel, this can be left rather than trimmed off.



Locate the 3D printed parts, the four angles will break off the backing piece easily fit them to all four corners of the wagon as shown. The 2 smaller tie rod ends will not come off the backing piece so easily and may have to be persuaded with a sharp knife or a pair of pliers. These two tie rod ends fit to the centre of the sides at the same level as the corner pieces.

Bend 2 pieces of the supplied rod to form the coupling hooks and glue them into the holes in the buffers.

Finally fit the side plaques centrally between the door openings and half way up the sides.

