

Instructions

London Transport Ballast motor

1. Cut out the main body and roof (1), and doors (5). Score along the bottom tabs, and the join between body and roof. Make a mark through the card on the black lines at both ends of the car body. Turn the piece over and score between the marks on the back of the card, this will allow you to bend the body to follow the contours of the cab end. I find it useful at this point to also score a series of lines about 1mm apart inside the roof. This will allow you to keep a much more even curve to the roof of the vehicle. Now is also the time to cut out the windows if you want to, otherwise leave the printed ones in place.

2. Glue the doors in place. The single leaf end doors should have the two tabs left exposed, and rolled inwards slightly to give the shape to the car end. Leave the model to set. If you have chosen to cut out the windows, now is the best time to glaze them, while the model is still flat. Over the years these vehicles had some or all of their windows boarded over. If you wish to do this on the model, use the yellow blanking strips glued behind the window opening. Choose the driving end with the style and destination you require (2). Cut the end out, and score the tabs on the back. Scoring on the back allows you to have a smoother curve where the sides and ends meet. Now cut out the trailing end, and roll the sides round to fit over the tabs on the trailing end of the car.

3. Starting from the centre of the roof working outwards, use your thumbs to create the curve to match the contour of the cab end. Use the cab end as a guide. You can also use any spare ends as internal formers to help the coach hold its shape. The clerestory can be cut out, and scored along the dotted lines. Fold the sides down and glue the clerestory to the top of the roof. An alternative way of forming the clerestory is to cut around the recessed sections on the main roof and bend these sections down a little below the roofline. The clerestory overlay can then be glued on top to hold the recesses in place.

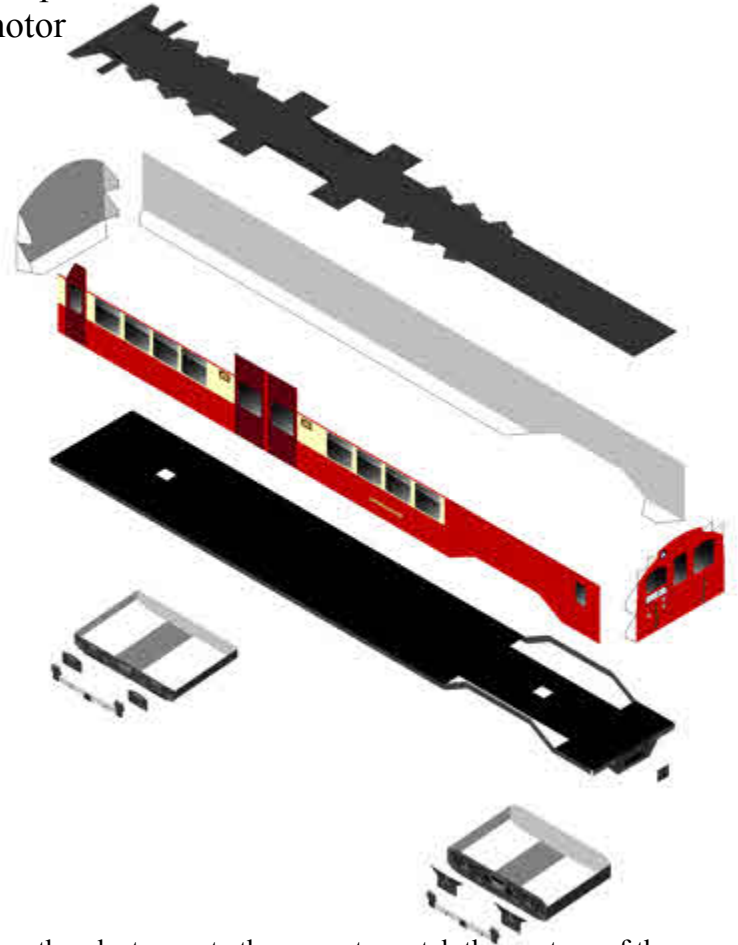
4. Once the body is complete you can turn your attention towards the underframe and bogies. The car floor and solebars are printed as one piece (3). Cut this out, take care when cutting out the driving ends, as these have isolation cocks to cut round. Use a pin to prick through the corners of the dotted rectangles printed on the floor. Now score and fold the solebars down. Glue the tabs inside, and set this aside to dry.

5. We have recently re-designed the bogies for these kits to make them easier to build. Cut out the sections with wheels printed on (4). Score along the dotted lines, and fold them to shape. Glue the tabs inside the ends to make them solid. The bogie sides (5) can be cut out next. These can either be glued straight on to the bogie, or mounted on an extra layer of card to give more relief. Follow the same method for the springs and axleboxes (6a)/shoebeams (6b).

These parts can also be used in conjunction with motor bogies such as Tenshodo, and the trailing bogies produced by Metromodels if you want to produce a running model.

6. Once the bogies are solid, you can glue them underneath the car floor using the pin pricks under the floor as a guide

7. Finally, cut out the couplers (7), these can be folded to shape and glued onto the headstocks over the blank space.



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