

00 LNER Dia 120 4w BY Pigeon Brake Van Assembly Instructions

This kit is designed to make a model of the 00 LNER Dia 120 4w Bake Van (BY Pigeon Van. A useful drawing and photograph appears in Nick Campling's Historic Coach drawings Vol 3. These vans were introduced between 1928 and 1930 a total of 58 originally numbered 6801-51 and 767-72. After 1946 they were renumbered 70194 to 70250. Later diagrams of a similar van were built on re-used underframes and have dimensional differences.

There is one preserved on the North Norfolk Railway which is turned out in magnificent teak paneling. We are very grateful to one of their volunteers, Owen Bushell who photographed the van for us.

They were believed to be originally unlined teak. When they became shabby they would have been painted NCPS Brown. In BR they would have been maroon. At least one survived until 1971 painted maroon.

We have included a coupler mounting block for Bachman 36027 Mark 2 Couplings NEM shaft (cranked) with pocket.

Helpful Tools/Supplies

Hobby knife with sharp blades Polystyrene Cement (Tube/Liquid type)
Superglue Small needle nosed pliers Tweezers Pin chuck
.45mm drill Small file

Helpful Hints

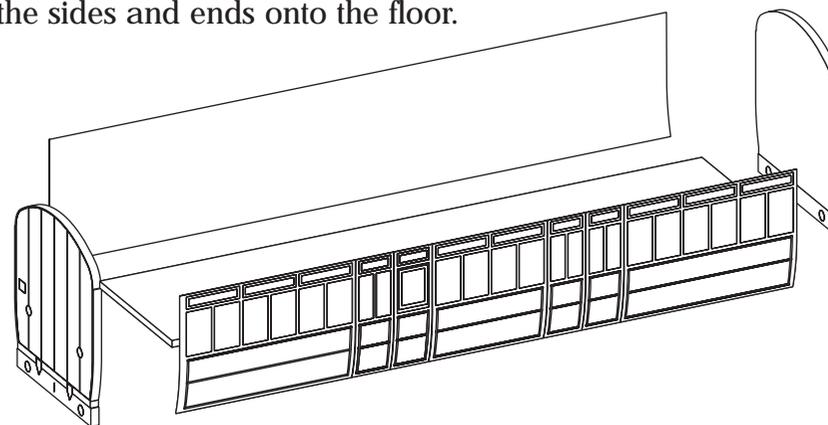
Take care removing the parts from the sprues, especially fine parts. Use good quality styrene cement. You will find both the liquid and thicker tube type useful in different locations. If you are using the liquid version take care handling the parts because the plank lines draw the cement away from the joint very quickly.

Contents of Kit

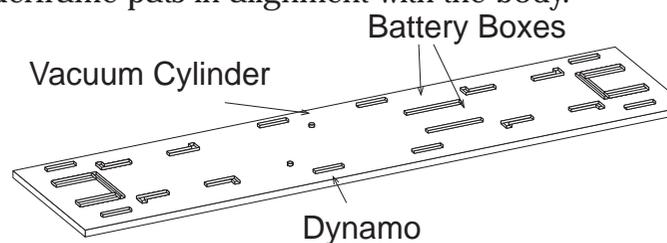
2 Sides	2 Ends (1 sprue)	Floor
2 Underframe Sprues	Roof	Torpedo Vents
Footboard Sprue	1 Guards Lookout	Etched Coupling Hooks
Coupler Mount Sprue	Short length of wire	Whitemetal Buffers
Whitemetal Vac Cylinder and Crank		

There are a number of variations in the details on these vans, especially relating to the size and position of the battery boxes. These instructions are a standard set if you want to model a specific prototype we suggest you work from a photograph.

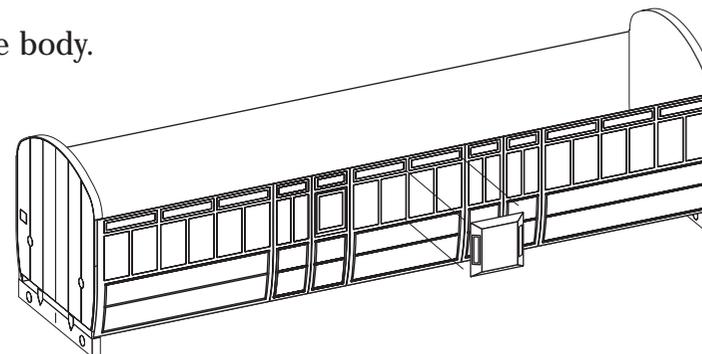
Fit the sides and ends onto the floor.



The vans are handed. There is only one guards ducket so you need to get the underframe parts in alignment with the body.

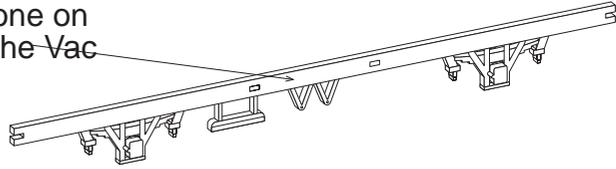


The Guards Ducket goes above the side with the dynamo. We suggest when you paint the model you flood the area of the window with black paint.
Paint the body.

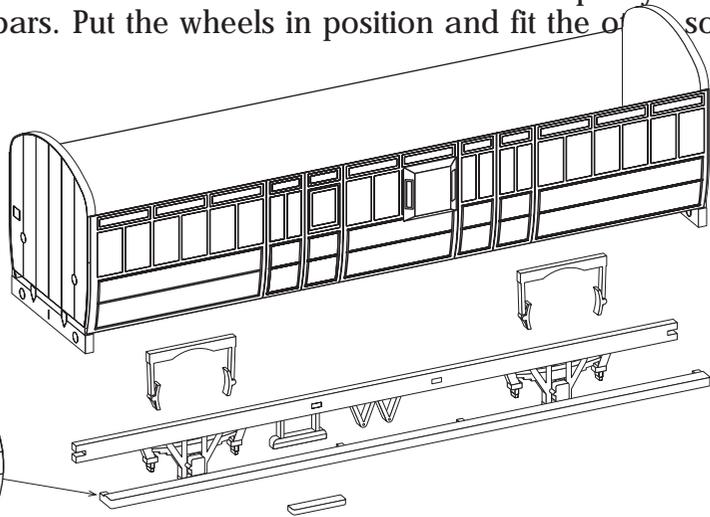


Fit Flanged brass bearings into the axle holes although we suggest superglue, we find that liquid plastic cement works as well. The kit is designed to use 14mm wheels on 26mm axles, but we also find the new generation Hornby coach wheels work as well despite having slightly different dimensions.

Cut one V hanger off each solebar so that you have a matched pair. Remove this one on the side with the Vac Cylinder



Take care fitting the solebars. The surface tension of the cement can pull the solebars out of vertical, tipping them slightly outwards and interfering with the free running of the wheels. Using the following order, give them a few moments to set between each part you attach. Fit one solebars. Put the wheels in position and fit the other solebar.



Fit the foodboard this way up

Fit the Footboards, making sure the long upper one is the right way up. Drill the roof 1mm for Torpedo vents, There are 4 set at 32mm centres on the centre line of the roof.
Torpedo Vent Centres



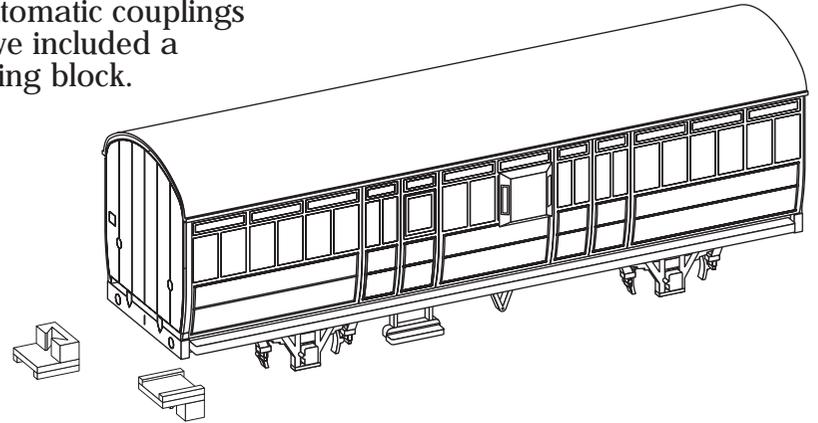
Fit the brake cylinder to the pip on the floor. Fit a piece of .45 wire between the V hangers with superglue threading it through the hole in the crank.

Fit the Dynamo onto the pip on the floor sloping towards the nearest axle. Fit the battery boxes with the guide strips on the floor to the rear.

Glaze the Windows and fit the roof.

Fit the buffers and coupling hooks with superglue.

For those wanting to use automatic couplings we have included a mounting block.



RC416 00 LNER Dia 120 4w BY Pigeon Brake Van

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Model: Mark Houlding