



## The detailed wagon and van kit

### The Prototype

This kit is based on a drawing dated 3/3/1913 and a sketch by Sir Eric Hutchinson. The former carries four order numbers, G340, G355, G379, and G423, dated 17/4/13 – 25 wagon, 14/3/14 – 25, 14/1/16 – 20 wagons and 12/1/21 – 30 wagons respectively.

Wagons of this type would be expected to put in 30 years hard service, and it is likely that the wagons would have still been in service in the 1940's. Some wagons would have reached the early 1950's.

The main use of these wagons was in the industrial heartland of Scotland, and it is possible that wagons would have been seen on the West Coast main line. They were used for the transport of steel products including tube.

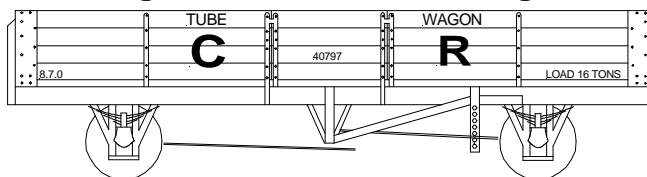
A long lived vehicle which, because of its length makes an unusual, interesting and attractive addition to your wagon fleet.

### References:

"British Goods Wagons from 1887 to the present day" by Essery, Rowland & Steel

## Caledonian Railway London Midland and Scottish Railway British Rail

### Diagram 114 Boiler Tube wagon



Period: from 1913 to c1950

For OO, EM and 18.83mm

### Requires to complete:

- split spoke wagon 12mm wheels
- paint
- couplings
- transfers

### Assembly

Please read these instructions before starting to build your model. Examine all the parts and familiarise yourself with their assembly. Remove any moulding flash and ensure all parts fit correctly. We suggest wet fine emery paper (1200 grit) may be useful to clean up flash marks.

Assembly is best carried out using low melt solder or an epoxy resin such as Araldite. Glues like UHU, Multibond or Thixofix can also be used. For small parts use Superglue. To obtain the best results a combination of several techniques will be needed.

Check all parts are free from flash and well fitting. Check the fit of the wheel bearings in the axleboxes and drill out as required.

Attach both ends to one side ensuring all is level and square. Fit the second side with wheel sets in place. Ensure wheels are supported in bearings and revolve freely. Drill out or pack the axleboxes as required. Fix the second side in place with wheel sets ensuring all is level and square. If not a gentle tweak will bring all four wheels into contact with a flat surface such as a glass sheet.

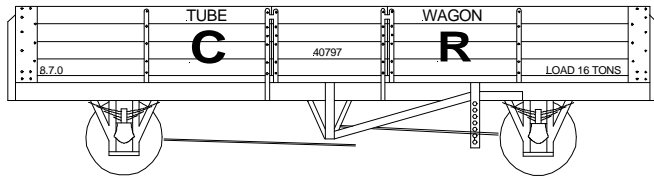
Fit the buffers so that the ribs are horizontal. Fit the brake shoe assembly to the inside of the solebar. Use the V-irons for alignment. Form the brake shoe cross shaft from the 0.7mm wire supplied to fit between the inside of the V-irons. Pass this through the brake shoe casting and secure to the V-irons. Form the truss rods by cutting two pieces of brass wire each 40mm in length. Bend them to shape as illustrated and fix at the two queen posts and behind the solebars. Fit the brake levers ensuring the plain lever is on the brake shoe side of the wagon. Cut the plastic floor to size and fix in place. Fit three link couplings.

### Finishing

Clean and degrease the model, using White spirit prior to painting. For whitemetal parts use an etching primer, such as Precision Paints PS1. The model should be then be painted using the livery of your choice. After painting clean the model using a tissue soaked in white spirit. **This is especially important if you are using dry lettering** such as that available from the Caledonian Railway Association **rather** than waterside or 'Methfix' transfers. After painting and lettering protect your model with matt varnish.

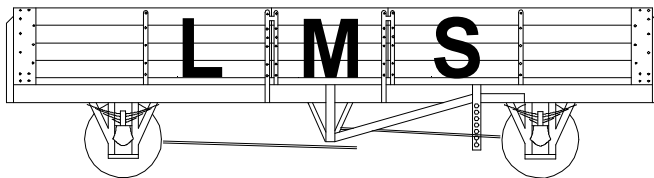
## Livery

### Caledonian Railway c1900-1923



Bodywork, solebars and buffer housing  
Red oxide, Precision Paint P436  
Underframe/brake levers, Black  
Letters and numbers White  
HMRS sheet 20, Caledonian Railway Association sheet.

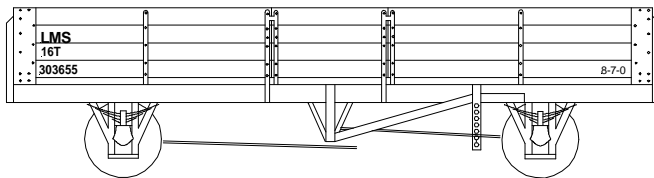
### London Midland and Scottish Railway 1923-1937



Bodywork and solebars grey Precision Paint P38  
Iron work below solebars black, Precision P975  
Lettering white HMRS sheet 6, Modelmaster 4701

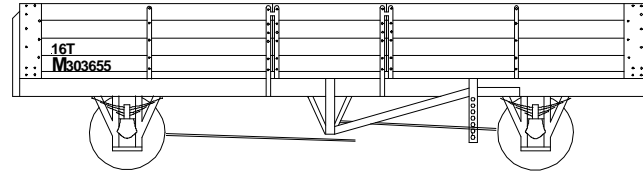
### London Midland and Scottish 1937- 1948

Body bauxite, Precision Paint P39



Iron work beneath solebars black Precision Paint P975  
Lettering white HMRS sheet 6, Modelmaster sheet 4701

### British Rail 1948-demise



Body lights grey, Precision Paint P126 or weathered timber  
Lettering white on a black background  
Light grey or bare timber with lettering on a black patch.  
Precision Paint P126

Lettering and numbers white  
HMRS sheet 25, Modelmaster sheet 4619

It will be appreciated that many wagons would not have been repainted by the LMS or BR and would remain in a weathered group or even pre-group livery or by that time weathered timber!

## Acknowledgements

51L would like to thank members of the Caledonian Railway Association for their help and assistance in preparing this model.

## Sample Numbers

33447, 3655, 40797, 73347.

The LMS renumbered the Caledonian fleet by the addition of 300000 to their original number giving numbers in the range 300001 to 352999. British Rail prefixed the LMS number with an M.

## Interested in the Caledonian Railway?

Contact the Caledonian Railway Association.  
The Membership Secretary  
Mr F Landery  
45 Sycamore Drive  
Hamilton  
ML3 7HF

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51L models are available through Wizard Model 51L at selected exhibitions and mail order.  
The current version of these assembly instructions will be available on the 51L website: [www.51l.co.uk](http://www.51l.co.uk). For further help or information please email: [peter@51l.co.uk](mailto:peter@51l.co.uk)

## Wizard Models

Wizard Models stocks a wide range of components, paints, transfers and other necessities for the 4mm modeller in OO, EM and 18.83mm. A full price list, for 50p + SAE can be obtained from: -

Wizard Models.

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