



The detailed wagon and van kit

The Prototype

A useful wagon used for the carriage of all manner of long loads such as tree trunks, girders, rail, tubes and sawn timber. The Twin Wagon consisted of two wagons permanently coupled together by a link and pin. This kit represents a version built in 1912 with heavy duty Irrasier axle boxes and self contained buffers. The Caledonian Railway built twin wagons over a number of years.

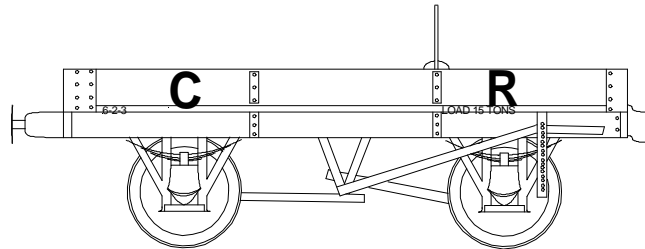
Wagons of this type had a working life of 30-40 years and it is likely that the D109 survived up to the 40's. They would have been seen in the industrial heartlands of Scotland and in Northern England.

References:

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

Caledonian Railway London Midland and Scottish Railway

Diagram 109 Twin Bolster wagon



Period: from c1912 –c1945

NOTE: this model contains parts for a pair of wagons

For OO, EM and 18.83mm

Requires to complete:

- split spoke wagon 12mm wheels
- paint, couplings and 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.

Drill out the holes (0.9mm) in the bolsters to take the stanchions, which will be formed, from the 0.9mm wire. Drill out the hole in the rubbing plate again to take 0.9mm wire, this will be used to couple the two wagons permanently together.

Check the fit of the wheel bearings in the axle boxes and drill out with a 2mm drill as necessary. Fix the ends centrally to the cast floor. It will be found that the end with the rubbing plate goes at the stanchion end of the floor. Ensure the ends are square.

Attach one side in place ensuring it too is square on the floor. With wheel sets in place fit the second side and ensure the wheel sets are square. The wheels should run freely, if necessary pack or bore bearing holes as required. When satisfied fix. Ensure the wagon is level and square using a flat surface such as a glass sheet, if not a gentle tweak will ensure that all four wheels are in contact with the surface. Fit the buffers, the rib is on the outside.

Fit the brake shoes to one side. Form the brake cross shaft by cutting the 0.7mm brass wire to fit between the V's and fix in place. Form and attach push rod safety loops from supplied round wire. The safety loop was usually U shaped and fitted over the push rod adjacent to the brake shoe. However its exact position and shape was variable and this component was easily damaged in service. Fit the brake levers ensuring the plain lever is on the same side as the brake shoes.

Form the stanchions from the 0.9mm wire supplied, they should be 8mm in length above the bolster. File the stanchion top flat. Fit the shackles to the bolster so that they fall outside the stanchions. Slightly radi-ise the rubbing block. This completes the first wagon. Repeat for the second wagon. When attaching brake gear on the second wagon ensure the brake gear is on the same side for each wagon.

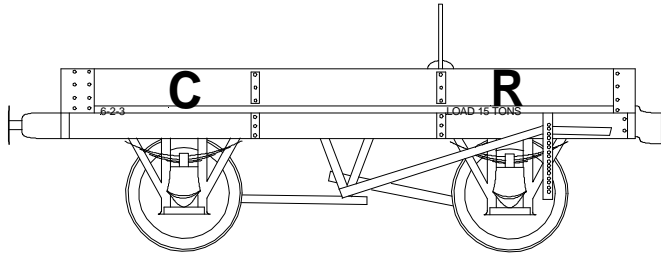
The wagons maybe coupled permanently together now, or alternatively this may be done after painting. Using the 0.9mm diameter wire cut a length 20mm long, bend one end at right angles 5mm from the end. Thread the straight end through the rubbing plate holes in both wagon. When the wagons are close coupled bend the protruding straight wire at right angles.

Finishing

Clean and degrease the model, using white spirit prior to painting. For white metal parts use an etching primer, such as Precision Paints PS1. The model should 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** available from the Caledonian Railway Association rather than waterslide or 'Methfix' type transfers.

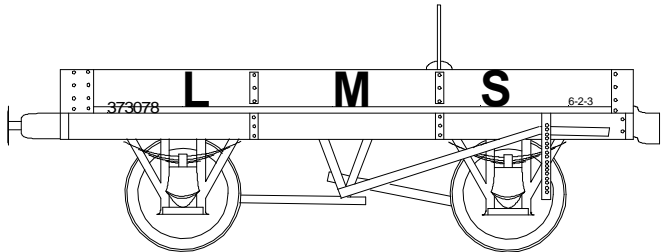
Livery

Caledonian Railway c1900-1923



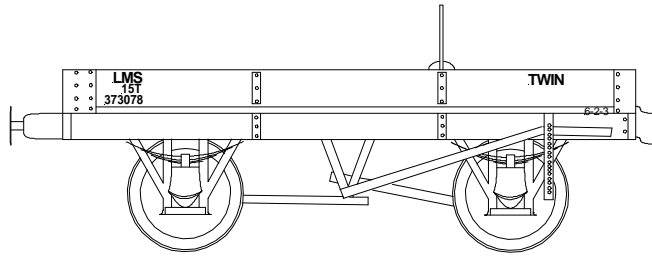
Bodywork, solebars and buffer housing
Red oxide, Precision Paint P436
Underframe/brake lever, solebar iron work black
Letters and numbers white
HMRS sheet 20, Caledonian Railway Association sheet.

London Midland and Scottish Railway 1923-1937



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

London Midland and Scottish Railway 1937- demise



Body bauxite Precision Paint P39
Iron work beneath solebars black Precision Paint P975
Lettering white HMRS sheet 6, Modelmaster sheet 4701

It will be appreciated that many wagons would not have been repainted by the LMS and would remain in a weathered 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

Information on Caledonian Wagons is limited but the following numbers are known to have 522751 and 52752, 73038 and 73078. The LMS renumbered Caledonian wagons by the addition of 300000 to their original number giving numbers in the range 300001 to 352999.

Interested in the Caledonian Railway?

Contact the Caledonian Railway Association.
www.crassoc.org.uk

The Membership Secretary
Mr F Landery
45 Sycamore Drive
Hamilton
ML3 7HF

51L

51L has a wide range of locomotive, carriage and wagon kits for the following railway companies:

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Wizard Models

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

PO Box 225, Macclesfield, Cheshire. SK10 4GB
Tel / Fax: 01625-585312
Email: Peter@51l.co.uk

www.51l.co.uk

Alternatively a copy may be down loaded from our server secure on line shop at:

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The current version of these assembly instructions will be available on the 51L website:

Version: 2.00
Issued: August 2002