



**The 4mm wagon and van kit**

## The Prototype

Pig iron wagons were essentially a short haul, heavily loaded, extremely robust carrying bed for a most uncompromising traffic. Their area of activity would have been the industrial heartlands of Scotland, moving pigs from furnace to rolling mill. When required, these wagons were also used for a variety of traffic including barrels, crates, cotton bales etc.

First built before the turn of the century, these wagons were introduced as an 8 ton wagon, which was later uprated to 10 tons. Over the years the brake gear would have been modified from the single shoe one side pattern to single shoe both sides and perhaps to the conventional either side pattern. Wagons repaired or built after 1911 were required to have a two-lever system but it is unlikely that many were altered.

A later 14T version featured heavy-duty Irrasier grease axleboxes and self-contained buffers, and this is the subject of 51L kit CRD016L.

At least 1300 diagram 16 wagons were produced of which 550 were 8/10T and 750 are thought to have been 14T wagons.

## References

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

## Caledonian Railway London Midland and Scottish Railway

### Diagram 16 8/10 ton pig iron wagon From c1890-1935



### For OO, EM, P4 and S4

**Features:** White metal body, white metal buffers with steel heads, etched brake levers

**Required to complete:** split spoke 12mm wheels, bearings, paint, coupling, 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) 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. Carry out a dummy run before starting assembly.

The axleboxes for this vehicle are 'handed'. The left hand axlebox, i.e. that adjacent to the brake shoe, includes the brake lever pivot hole at the right hand end of its spring. Ensure that this axlebox is fitted at the left hand end of the wagon if a single shoe brake is fitted. It will be appreciated that not all wagons had brakes on

both sides of the wagon and in consequence you are supplied with three normal axleguards and two with a pivot hole.

Check the fit of your chosen wheel bearings in the axle boxes and drill out with a 2mm drill as necessary. Fit the axle guards to one side, aligning the W-irons with the crown plate detail on the solebar. The holes in the axlebox casting and pins on the solebars will help in this respect. Check that the centres are 36mm. Fix both ends to one side ensuring that all is square. Attach the second side, again ensuring all is both level and square.

Fit one of the axleguards for the second side with wheel sets in place, ensuring that the axle is parallel to the side; when satisfied, attach. The axle should be supported by the pinpoint bearings. Repeat for the second axle. 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. Cut the plasticard floor to size and fix in place.

Fit the buffers with the rib to the outside. Fit the single shoe brake gear to one side. Glue a short length of the supplied brass wire (around 3mm) into the axleguard pivot hole. Form the brake lever guide according to the enclosed instruction sheet. Place the lever guide on the solebar to the left of the spring hanger and secure to the solebar. Fix the lever to the guide and pivot. Repeat for the second side if required. After painting fit three link couplings.

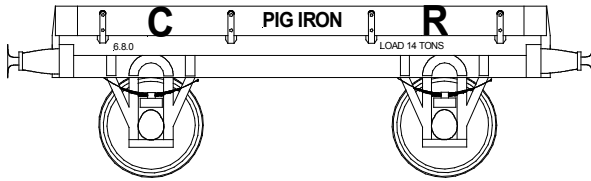
## Finishing

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 such as that available from the Caledonian Railway Association rather than waterslide or 'Methfix' transfers.

## Livery

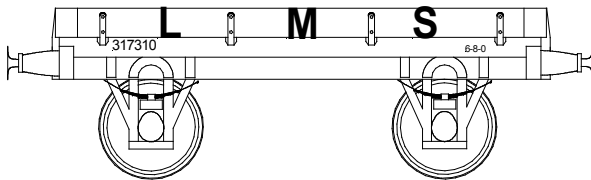
### Caledonian Railway c1890-1923



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.

### London Midland and Scottish Railway 1923-demise



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

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

## Acknowledgements

51L would like to thank Ronald Cockburn and other  
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 existed: 20065.

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.  
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

GWR and constituents: Cambrian Railway  
LMS and Constituents: Glasgow & South Western  
Railway, Highland Railway, Lancashire & Yorkshire  
Railway, Midland Railway, North Staffordshire Railway,  
Caledonian Railway  
LNER and constituents: North British Railway, North  
Eastern Railway

The most recent version of these assembly instructions  
will be available on the 51L web site: [www.51l.co.uk](http://www.51l.co.uk).

For further help or information please email:  
[andrew@modelsignals.com](mailto:andrew@modelsignals.com)

51L wagon kits and components are available  
exclusively from Wizard Models.

## Wizard Models

Wizard models stocks a wide range of components and  
other necessities for the modeller in OO, EM and  
18.83mm.

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