



The detailed wagon and van kit

The Prototype

The North Eastern Railway had a sizeable fleet of cattle wagons, unfitted, piped and fitted; all of which were grouped under Diagram K1. Cattle wagons to K1 were still produced after grouping for a period. At grouping the LNER inherited a fleet of 2,000 cattle wagons, the majority unfitted, which by 1940 had fallen to just 700. The LNER favoured the long fitted wagon. In contrast the NER favoured a medium length wagon which in the main were unfitted.

When first built the K1 had grease axleboxes, a single brake lever and two brakeshoes on one side. From 1902 Morton Duplex brakes (right and left levers) were fitted to be followed by Morton cam brakes from around 1904. From c1910 oil axle boxes would have been fitted to new or repaired wagons. This kit represents the 10 ton oil axle box version with Morton cam brake levers.

Until the early 1920's lime was used as a disinfectant and wagons often had a white appearance.

References

"British Goods Wagons from 1887 to the present day" by Essery, Rowland & Steel.
North Eastern Record Vol 2 p86

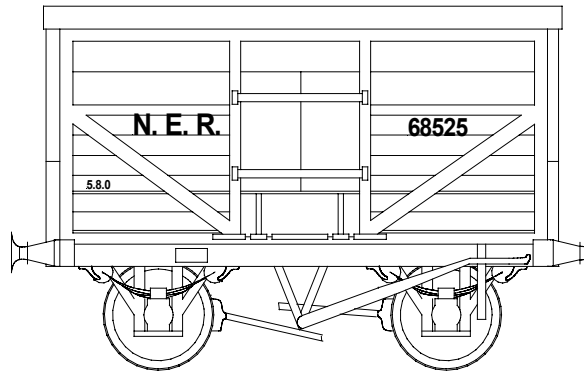
Interested in the North Eastern Railway?

Contact the North Eastern Railway Association.
The Membership Secretary
c/o 8 Prunus Avenue
Willerby
Hull
HU10 6PH

Acknowledgements

51L would like to thank the following for the help and assistance in preparing this model:-
Michael Grocock, David and Clare Williamson

North Eastern Railway London and North Eastern Railway British Rail



**Diagram K1 10 ton Cattle wagon
with 1D oil axleboxes
from 1911 to 1950's
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 the fit of the wheel bearings and bore out the axleguards/axleboxes if required with a 2mm diameter drill. Cut the thick, 0.7mm, wire to form the interior bars and attach in place. The end handrail holes in the side and in the end stanchions should be drilled with a 0.45mm drill 14.5mm from the bottom of the buffer beam, see sketch.

Attach the axleguards to the solebars using the solebar detail for guidance ensuring the centres are 38mm. Repeat for the second side using a common end for measurement. Fit the ends to one side, ensuring all is level and square. Having ensured the axles are held securely but not tightly in place by the bearings, glue the bearings in place using a Superglue.

Fit the other side with the wheels in position and again check all is square using a flat surface such as a glass sheet. If required gently tweak the wagon to bring all four wheels into contact with the glass surface. Fit the buffers to the ends with the bolts at the 12 o'clock, 6 o'clock and 9 o'clock positions. Cut the plasticard floor to size and glue in place. Attach the brake shoe/safety loop assembly to one side. Form the brake cross shaft by cutting the supplied wire to fit between the cast V's. Pass it through brake shoe assembly and attach it between the V's. Fit the brake levers in place ensuring the Morton Cam is on the opposite side of the wagon to the brake shoes. Fit the end handrails in place. End handrail holes in the side and in the end stanchions should be drilled with a 0.45mm drill, 14.5mm from the bottom of the buffer beam, see sketch. Using fine wire, eg 3 amp fuse wire, form a loop around the hand thread into the hole in the end stanchion and solder or glue on the interior surface to secure.

Paint the wagon interior white if pre-group or early post group otherwise use a timber colour. From the formed plastic roof supplied cut the plastic roof to size and attach in place.

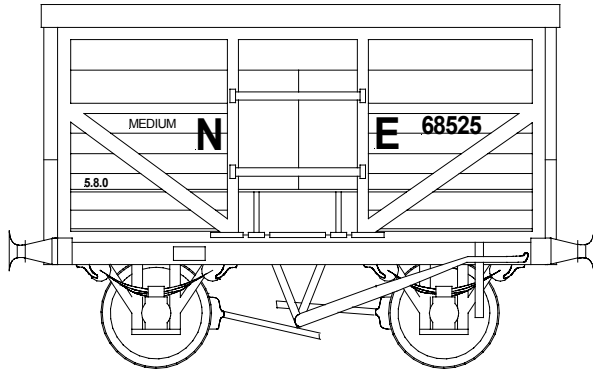
Finishing

Clean and degrease the model, using White spirit prior to painting. For white metal parts use and 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 the "Pow Sides" dry lettering** rather than waterslide or 'methfix' transfers.

Livery

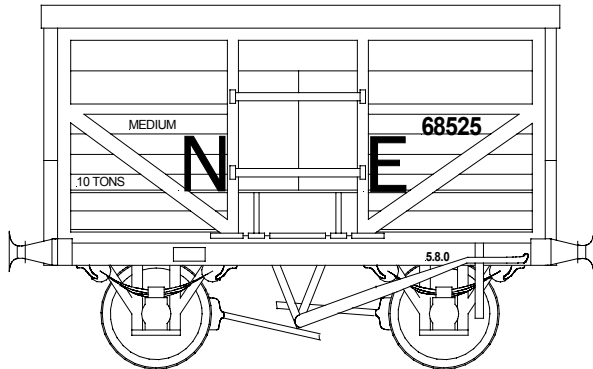
Letter your wagon to suit your period. Suitable lettering is available from HMRS, Modelmaster and Pow sides; paint from Precision Paint for the NER and LNER.

North Eastern Railway 1911-1923



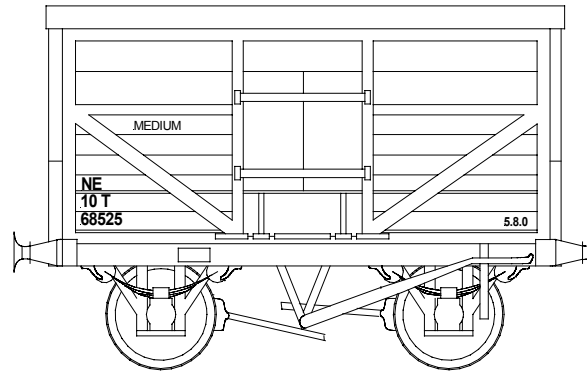
bodywork, and solebars NER grey Precision Paint P530
Underframe/brake lever black
Letters and numbers white
Pow Sides sheet E263, Fox FRH 4325

London and North Eastern Railway 1923-1937



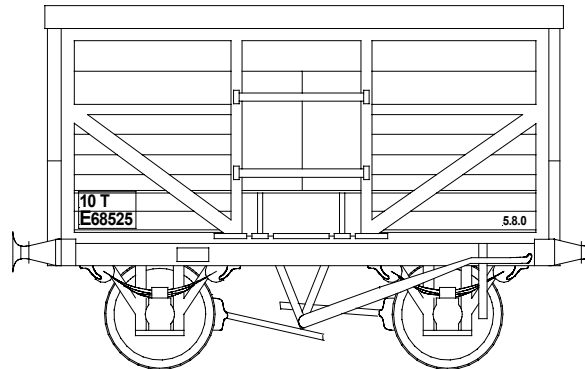
bodywork, and solebars grey Precision Paint P66
Underframe/brake lever Black
Letters and numbers White
HMRS sheet 12, Modelmaster Sheet 4702, Pow Sides E201, Fox FRH 4325

London and North Eastern Railway 1937-48



bodywork, and solebars grey, Precision Paint P66
Underframe/brake lever black
Letters and numbers white
HMRS sheet 12, Modelmaster Sheet 4702, Pow Sides E201

British Railways 1948-demise



bodywork, and solebars unpainted wood or grey Precision Paint 126
Underframe/brake lever Black
Letters and numbers White on a black patch
HMRS sheet 25, Modelmaster Sheet 4606.

Sample numbers

Running numbers include:
(Year of build in brackets)
6321, 30988, 43983 (1910), 5292, 7259, 8471, 11799,
12138, 60318 (1911), 30350, 37652 (1914), 23130
(1918), 55787 (1921), 85720 (1924).

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

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. For further help or information please email: 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.

PO Box 225, Macclesfield, Cheshire. SK10 4GB

Tel / Fax: 01625-585312

Email: sales@wizardmodels.co.uk

www.wizardmodels.co.uk

Version: 2.00

Issued: July 2001