

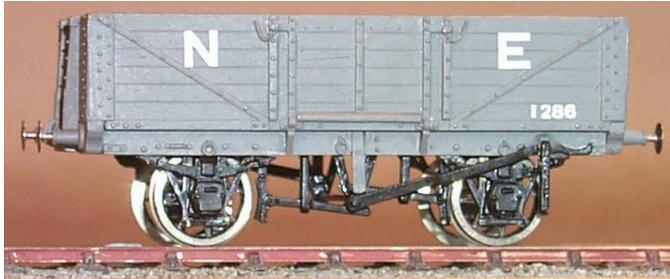


The 4mm wagon and van kit

NERDC010

North Eastern Railway
London & North Eastern Railway
British Railways

Diagram C10 12T Open Goods Wagon



Period: 1908 to late 1950s
For 00, EM, P4 and S4

Features: white metal sides, ends and details

Required to complete: split spoke 12mm wagon wheels, bearings, paint, 3-link couplings and transfers

The Prototype

The NER introduced the C10 design in 1908 to replace its ageing fleet of C2 wagons, which dated back to 1886. The C10 was an updated version of the 10T C9 introduced in 1905. In all, some 22,689 C10s were built by the end of 1922, making them by far the most numerous pre-Group wagon to be taken into the LNER in 1923. Few modifications occurred to the design over the years although from 1918 ribbed buffers (Wizard Models part NERC021) were fitted as standard. Some wagons were rated at 10 tons, rather than 12.

In 1940 some 18,710 were still in use but by Nationalisation in 1948 only 8,091 remained. It is thought probable that some of these survivors would have lasted until the late 1950s or possibly the early 1960s.

The C10 was seen the length and breadth of Great Britain.

References

North Eastern Record, Vol. 2 p85.
A Pictorial Record of LNER Wagons, P Tatlow, p18.
LNER Wagons Vol. 2, P Tatlow, pp43-45.
Freight wagons and loads in service on the Great Western Railway and British Rail Western Region, J Russell, figs 14-16.

Interested in the North Eastern Railway?

North Eastern Railway Association
www.ner.org.uk

Acknowledgements

51L thanks Michael Grocock and Claire and David Williamson for their help in the preparation of this model.

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 any 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 your chosen wheel bearings in the axleguards, drilling out if necessary. Just tack them in place for now, in case they need to be adjusted later. Fix two axleguards to one side, using the solebar detail to ensure the axle spacing is the correct 38mm (9'6"). Now assemble the body: properly join one end to the side with the axleguards, and tack the other end to the other side. Bring the two halves together and tack them to each other. Ensure all is level and square, and properly make the three remaining joints. Take one of the remaining axleguards and tack it to the body, trapping a wheelset in place. Ensure the wheels are firmly

supported and run freely (adjust the bearings if needed – use 8BA washers as packing if they are too far apart), and that the axle is horizontal and perpendicular to the side. Do the same for the last axleguard and wheelset, ensuring that the axles are parallel to each other. When satisfied, properly fix the bearings and axleguards in place. Again, check that the wagon is level and square. If not a gentle tweak will ensure that all four wheels are in contact with a flat surface such as a glass sheet.

Cut the embossed plastic floor to size and fix in place. Fit the brake shoes in place, having first removed the casting feed between the top of the moulding and the upper shaft. From the supplied 0.9mm wire, cut the brake cross shaft to fit between the two vees, with the wire passing through the hole in the brake shoe casting. Fit the brake levers in place, with the plain one being on the brake shoe side of the wagon. Fit the door bangers in place in the slots provided on the solebar. The buffers should now be fitted in place: either the supplied round three-bolt type for wagons in their original condition, or the ribbed type for wagons built or modified after 1918.

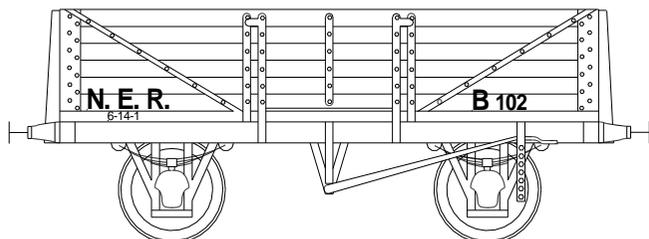
Finishing

Clean and degrease the model, using white spirit prior to painting. For whitmetal parts use an etching primer, such as Precision Paint 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 Powsides dry lettering**, rather than waterslide or 'Methfix' transfers.

Livery

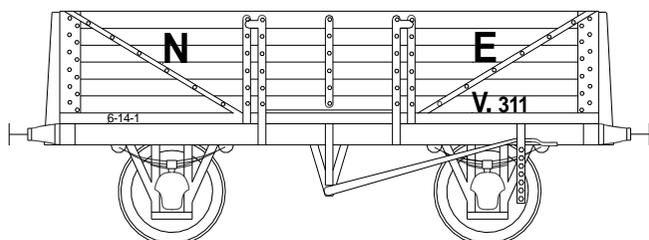
Letter your wagon to suit your period. Suitable lettering is available from HMRS, Modelmaster and Powsides; paint from Precision Paint for the NER, LNER and BR periods.

North Eastern Railway 1908-1911



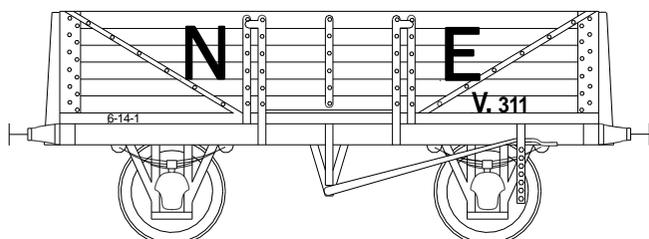
Bodywork, solebars: NER grey, Precision Paint P530
Underframe, brake levers: black
Insignia: white, Powsides sheet E262, Fox FRH 4325

North Eastern Railway 1911-1923



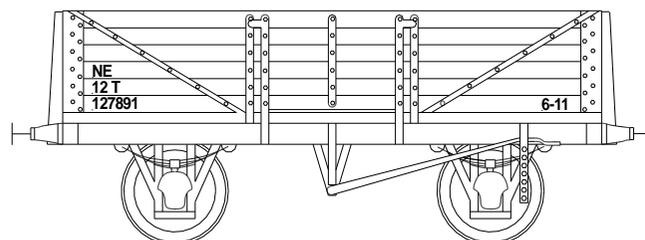
Bodywork, solebars: NER grey, Precision Paint P530
Underframe, brake levers: black
Insignia: white, Powsides sheet E262, Fox FRH 4325

London & North Eastern Railway 1923-1937



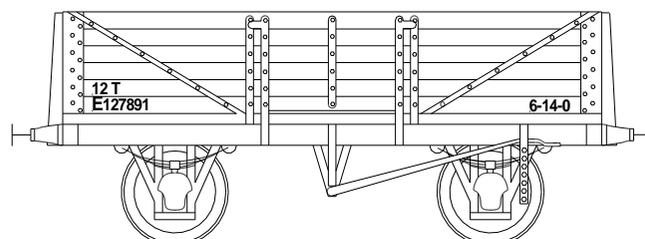
Bodywork, solebars: grey, Precision Paint P66
Underframe, brake levers: black
Insignia: white, HMRS sheet 12, Old Time Workshop sheet 4702, Powsides E201

London & North Eastern Railway 1937-48



Bodywork, solebars: grey, Precision Paint P66
Underframe, brake levers: black
Insignia: white, HMRS sheet 12, Old Time Workshop sheet 4702, Powsides E201, Fox FRH 4325

British Railways 1948-demise



Bodywork, solebars: grey or unpainted wood, Precision Paint P126
Underframe, brake levers: black
Insignia: white on black patch, HMRS sheet 25, Modelmaster sheet 4606

Sample numbers

Running numbers include: (year of build in brackets)

Plain buffers:

A254-99 (1908); A320-656 (1908/9); 108941-99, A945-1000 (1909); B1-1000 (1909/10); C1-74, C375-1000, D1-176, D185-200, D209-28, D237-48, D257-68, D277-88, D290, D295-327 (1910); F369-72, F379-436, F345-50, F365, F520, F596-603, F636-1000, G101-302, G503-1000, J1-184 (1911); J800-31, J848-71, J928-50, K451-700, K801-50, L1-25, L34-81, L98-105, L118-65, L182-221, L226-33, L241-8, L261-84, L297-304, L317-484, L496-519, L532-55, L568-91, L604-11, L624-55, L668-83, L697-712, L720-7, L748-55, M1-150 (1912); M201-400 (1912/3); M501-600, M651-750, M901-71, N305-309, N318-33, N342-69, N378-420, N454-77,

N494-505, N980-999, R1-4, R7-30, R45-97, R102-33 (1913); 79003 (1918)

Ribbed buffers:

62445 (1919); M984-1000, R166-1000, S1-665, V666-1000, W1-915 (1920); U666-1000, V1-665, S666-1000, T1-1000, U1-665 (1920/1); Y916-1000 (1921)

51L

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A later version of these assembly instructions may be available on the Wizard Models website. For further help or information please email: andrew@modelsignals.com

Wizard Models

Wizard Models stocks a wide range of components and other necessities for the modeller in 00, EM and 18.83mm.

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