



London & North Western Railway (LNWR) Three Compartment Composite Coach



Lasercut MDF and card kit

7mm scale kit, "O" gauge
Adhesive, paint not included

LNW702

LNWR Three Compartment
Composite Coach

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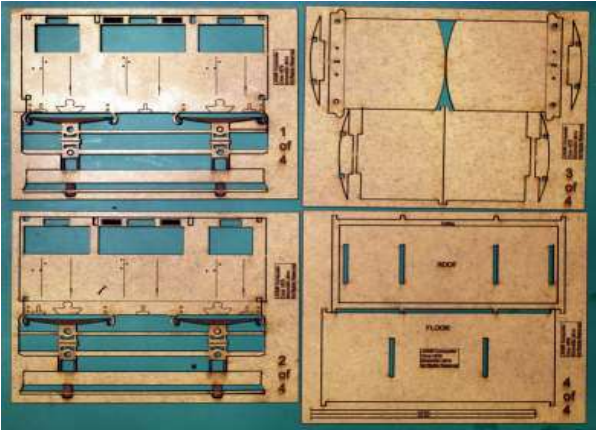
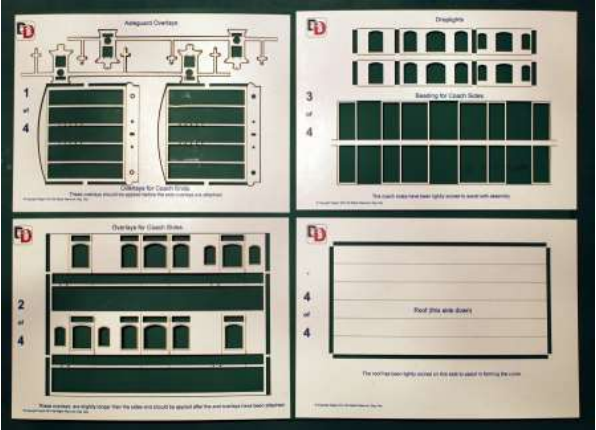
LNWR Three Compartment
Composite Coach

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Assembly Instructions

London and North Western Railway three compartment Composite Coach 7mm scale ("O" gauge).

<p>Introduction</p> <p><i>Contents of this kit</i></p> <p>MDF frets x 4</p>	<p>This kit contains:</p> <p>1. MDF parts – four frets numbered 1 to 4</p> 
<p>Cardboard frets x 4</p>	<p>2. Cardboard parts – four frets numbered 1 to 4.</p> 

<p>Sundry Parts <i>(glazing and wire)</i></p>	<p>3. Sundry parts</p> 
<p>Not included</p>	<ul style="list-style-type: none"> • Adhesive to attach the parts. PVA is recommended for the MDF parts. • Craft knife, Clamps, weights or other tools • Paint and filler • Wheels, bearings, Buffers, couplings etc.
<p>Hints on assembly</p> <p><i>Separate parts by cutting the reverse side of the fret.</i></p> <p><i>Pre-assemble and check parts at each stage.</i></p> <p>Seal Cardboard components.</p>	<p><i>Separating the components cleanly is more easily accomplished by completing the half etched portions on the reverse of the fret rather than cutting from the front.</i></p> <p><i>At each stage, once the required components have been separated from the frets, test the assembly without glue to ensure that the parts are trimmed correctly and fit properly before final assembly with adhesive.</i></p> <p><i>Allow as much time as needed for the adhesive to set.</i></p> <p><i>Fill any gaps and smooth surfaces for optimal results</i></p> <p><i>It is strongly advised that cardboard components are sealed with a fixative (obtainable from art shops) before assembly.</i></p> <p>The assembly steps are recommendations and should not be taken as definitive.</p>
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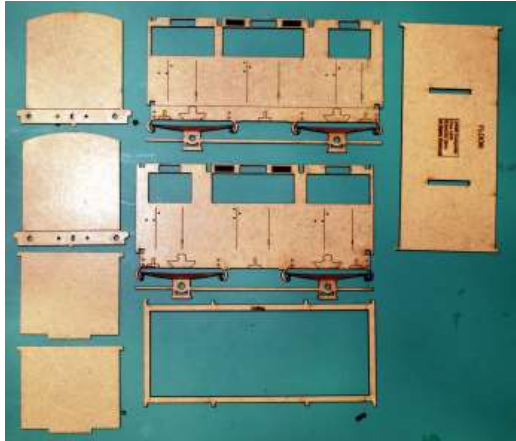
Assembly Instructions

London and North Western Railway three compartment Composite Coach 7mm scale ("O" gauge).

Body Shell

Carefully separate the MDF sides, floor, ceiling and partitions of the coach from MDF frets 1, 2 and 3 using a sharp craft knife.

Total preparation and assembly time about 30 minutes. Allow sufficient time for the adhesive to dry thoroughly.



Assemble these parts using PVA glue.



Coach ends

Total preparation and assembly time about 5 minutes.

Allow the adhesive to dry thoroughly



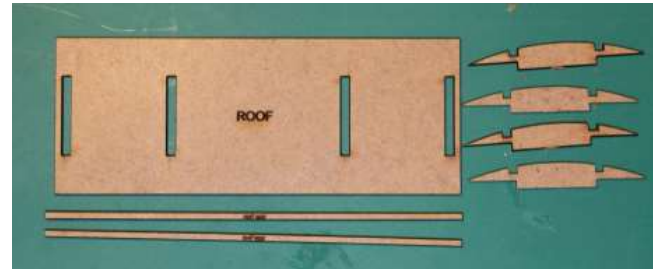
When the coach shell has set, attach the coach ends and put aside to dry thoroughly with light clamping or weighted down. Take care that the ends are properly aligned with the tops of the coach sides.

Inner Roof

Total preparation and assembly time about 5 minutes.

Allow sufficient time for the adhesive to dry thoroughly

Carefully separate the roof formers from MDF fret number 3 and the roof strut from MDF fret 4 using a sharp craft knife. Add the roof from MDF fret 4.



The assembled roof should fit snugly between the ends of the coach body.

Assemble these parts, using PVA glue. *Note that the roof struts should be centrally placed so that the roof fits snugly between the ends of the coach body and can be removed easily.*

Put aside to dry thoroughly, with light clamping or weighted down while the glue dries.



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End Panelling

Total preparation and assembly time about 5 minutes.

Allow sufficient time for the adhesive to dry thoroughly



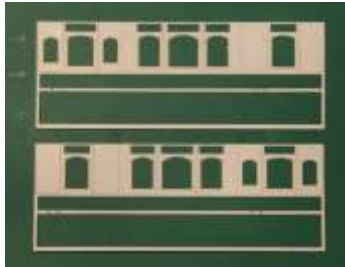
Carefully separate the end panelling detail from the first cardboard fret.

Attach the panelling to the ends of the coach.

Side Panelling

Total preparation and assembly time about 10 minutes.

Allow sufficient time for the adhesive to dry thoroughly



Carefully separate the side panelling detail from the second cardboard fret.

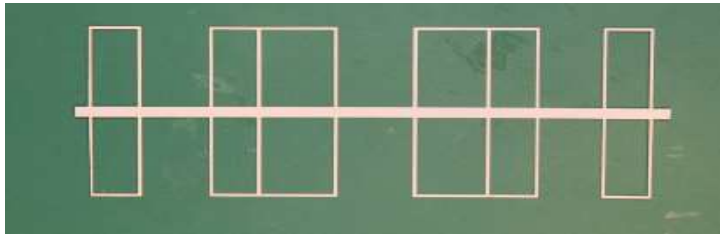
Attach the panelling to the ends of the coach.

Hint: The panelling can be aligned by using the supplied wire through the pre-drilled holes for door handles.

Beading detail

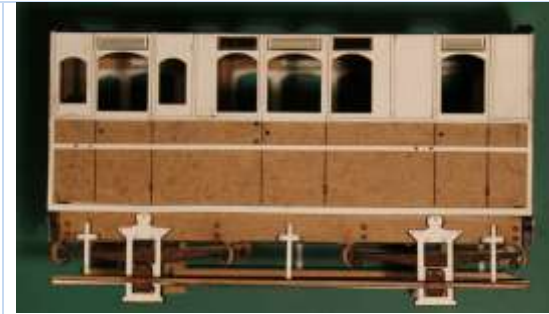
Total preparation and assembly time about 5 minutes for each side.

Allow sufficient time for the adhesive to dry thoroughly



Carefully separate beading detail from the third cardboard fret. Attach the panelling to the upper coach sides. The beading can be aligned by using the light scoring on the coach sides.

Hint: Retain the central strip and use it to position the beading. Be sure that the beading is orientated correctly. Trim when the adhesive has set.



NB: Experienced modellers may choose to use half round strip (not supplied) to give a more prototypical effect for the LNWR.

Droplights and glazing

Total preparation and assembly time about 5 minutes.

Allow sufficient time for the adhesive to dry thoroughly

Carefully separate the eight droplights from the third cardboard fret. After painting then position inside the window apertures behind the outer panelling. The supplied glazing has been pre-cut so that it snaps into six sections, to be inserted behind the droplights as appropriate.



Hint: this step can be delayed until the coach has been painted by the modeller.



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Axleguard and Axlebox overlays

Total preparation and assembly time about 5 minutes.

Allow sufficient time for the adhesive to dry thoroughly



Carefully separate the axleguard overlays from the first card fret. Attach the card axleguard detail over the axleboxes.

Now separate the axlebox overlays from the second MDF fret. Attach this detail over the axleboxes.

Hint: this step may be delayed until the bearings and wheels are installed (see below).

Inner Axleboxes

Total preparation and assembly time about 5 minutes. Allow sufficient time for the adhesive to dry thoroughly



Carefully separate the inner axleboxes from the first and second MDF fret. Attach the inner axleboxes inside the solebars with the etched area facing outwards.

Hint: bearings and wheels can be fitted at this time.

Roof

Total preparation and assembly time about 5 minutes. Allow sufficient time for the adhesive to dry thoroughly

Carefully separate the roof from the fourth cardboard fret. Gently Roll the roof into a slight arc. Attach the roof over the previously assembled MDF inner roof section.



Ventilators

The ventilators above the doors are cut on three sides so that they can be angled outwards slightly. Alternately, the additional ventilator grills supplied with this kit can be applied to give a raised effect.

Historical Notes

This kit is based on a photograph of a coach which can be found on LNWR society web site. It is stated that the coach dates to the 1850's.



Finally...

Congratulations on completing this kit. We hope you enjoyed making it as much as we did. Please take time to visit our website www.Diagram3D.com for information on all our products. Email: info@Diagram3D.com