



**London & North Western Railway  
4 compartment 2<sup>nd</sup> Carriage (1860)  
7mm scale(“O” gauge)**



**Era 1-2**

Pre-grouping

**7mm Scale  
3D printed parts**



**LNW708**

[Diagram3D.com](http://Diagram3D.com)



## Introduction

These instructions begin with a list of contents. **Please examine your kit** to ensure that you have received all the components listed.

The instructions use images of actual kits. The construction procedure is similar for most kits. If special parts or procedures apply then that will be noted for this kit.

The current version of documentation for this and any other of our products can be downloaded from our website: <https://www.Diagram3D.com>.

## Not included

- Adhesive to attach the parts. PVA is recommended for the MDF parts, contact adhesive for plastic parts.
- Craft knife, Clamps, weights or any other tools.
- Paint and filler
- Wheels, bearings, couplings etc.

## Intended Audience

*This kit is intended to reduce the time, complication and labour associated with the construction of a detailed model of a carriage body using prepared parts which can be conveniently assembled without specialist knowledge .*

***This is not a complete kit of parts.*** The choice of some details (wheels, couplings) is left to the modeller. This kit includes small parts and requires the use of sharp tools. It is not suitable for children without adult supervision.

## Hints on assembly

### Separate MDF parts by cutting the reverse side of the fret.

*Separating MDF components cleanly is more easily accomplished by completing the half etched portions on the reverse of the fret rather than cutting from the front.*

*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.*

### Pre-assemble and check parts at each stage.

*Allow as much time as needed for the adhesive to set.*

***The assembly steps below are strong recommendations but should not be taken as definitive or prescriptive.***

### Allow adhesive time to set

## Copyright Statement

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## Current Documents

**The current version of documentation for this and any other of our products can be downloaded from [www.Diagram3D.com](http://www.Diagram3D.com) in PDF format.**

## Feedback

We welcome your comments and suggestions, especially images of models "in progress" or completed.



## Contents

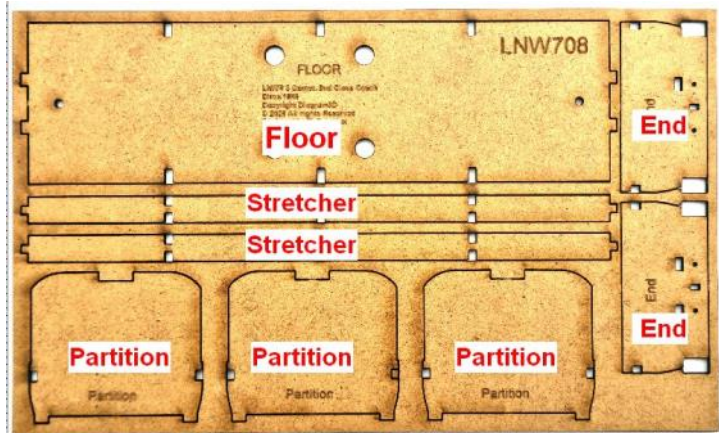
### MDF Components

Check your kit to confirm its contents using the information below

MDF parts are supplied pre-cut, partially attached to a panel which preserves their integrity and ensures that the correct parts are present. Please do not separate these parts until it is time to use them.

Refer to the illustration below to identify the components listed below.

Component	Quantity
Floor	1
Ends	2
Stretchers	2
Partitions	3



### 3D printed Components

Refer to the illustration on the next page to identify the components listed below.

Component	Quantity
Coach Sides	2
Coach Ends	2
Solebars including axleguard details	2
Solebar Mounting clips + screws	1 set
Roof	1
Roof mounting clips	2
Oil lamps	4
wheels + axles (for display usage only)	1 set
Buffers	2
Glazing	2



### Assembly

#### MDF Body

Total preparation  
and assembly time  
about 5 minutes.

Detach the MDF partitions, floor and stretchers. For this kit, both partitions are full height. Insert the partitions into the floor, glue in position and allow to set.

Now attach the stretchers, Finally attach the ends. The resulting box structure forms the central core of the coach body.

Allow sufficient  
time for the adhesive to dry thoroughly





### Assembly

#### Solebars

**Total preparation  
and assembly time  
about 10 minutes.**

Refer to the (generic) images:

Using the solebar mounting set and solebars, attach each solebar to a mounting clip. Ensure that the clip is flush with edge of the solebar.

Take each of the two floor mounting clips and attach to the corresponding holes in the floor. Note the orientation, across the floor.

Finally, using the screws provided, screw the solebars into place.



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### Assembly

#### Roof

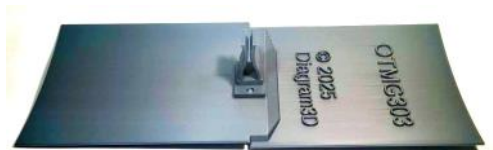
**Total preparation  
and assembly time  
about 5 minutes.**

Refer to the (generic) images:

The roof has locating points for oil lamp(s) on top.

Underneath it has locating points for the soft rubber clip(s) provided.

Attach the clip(s) & lamp(s) then the roof can be clipped into position.





## Final assembly

*Allow sufficient time for the adhesive to dry thoroughly*

The final assembly consists of attaching the sides and ends to the MDF body. Begin with the ends ensuring that they line up with the holes in the MDF ends. The sides can then be positioned on the bufferbeams. The sides overlap the ends.

The roof clips onto the partitions. Removing the roof allows the glazing to be slotted into position.

Finally, the flexible buffer heads are inserted into the bufferbeams to complete assembly.



## Display Wheels

This kit includes two axles with four 3D printed wheels which can be used for display purposes. Otherwise it is recommended that appropriate wheels are used instead.



## Historical Notes

A drawing of this vehicle is available from the LNWR Society reference DROLL0300. This information and images of similar vehicles were used to make this model. This vehicle was 24ft 3in. long

## Livery

This vehicle would most likely have been in "standard" LNWR livery of lake and white. ..

## Underframe

The underframe follows standard LNWR practice of the time. The wheelbase was 14 feet. It is depicted with metal steps under the doors.

## Finally...

Congratulations on completing this kit. We hope you enjoyed making it as much as we did.. If you enjoyed making this kit then take time to visit [www.Diagram3D.com](http://www.Diagram3D.com) to find similar items. Our website has free downloads of historical information. Downloadable assembly instructions for all of our products

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