











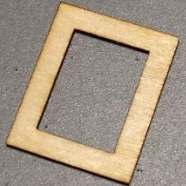






Originally built in 1872 by the Metropolitan C.&W.Co. some of the four-wheel coaches were then built at the Nine Elms works from early 1873. All vehicles from Nine Elms had rounded lower windows and trims, and it is this type that is the subject of these kits.

In this kit you will find:

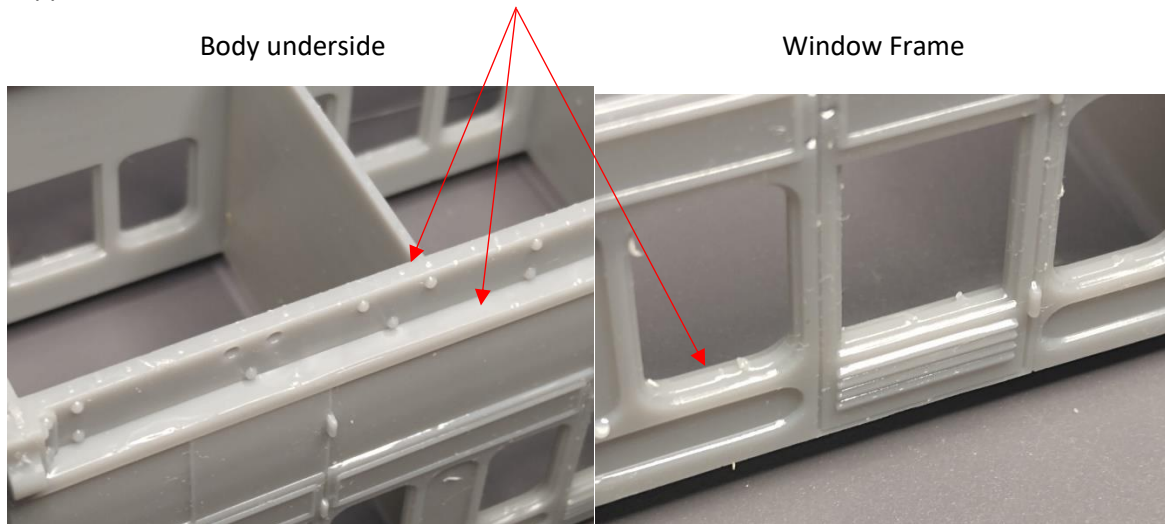
Part Name	First	Second	Third	Third Brake
Main Body 	1	1	1	1
Floor 	1	1	1	1
Vents 	4	5	3	3
Caps 	4	5	3	3
Axle Box Left 	2	2	2	2
Axle Box Right 	2	2	2	2
Footboards 	4	4	4	4
Hangars 	8	10	10	10
Buffer Main	4	4	4	4

				
Buffer Base 	4	4	4	4
Door Handle Fret (10) 	1	1	1	1
300mm Brass Rod	1	1	1	1
240mm Wire	1	1	1	1
Windows 	2	2	2	2
Door Window Frame 	8	10	10	10
Rear Handle Knobs 	4	4	4	4
Brake Wheel 	0	0	0	1
Brake Block 1 	0	0	0	1
Brake Block 2 	0	0	0	1

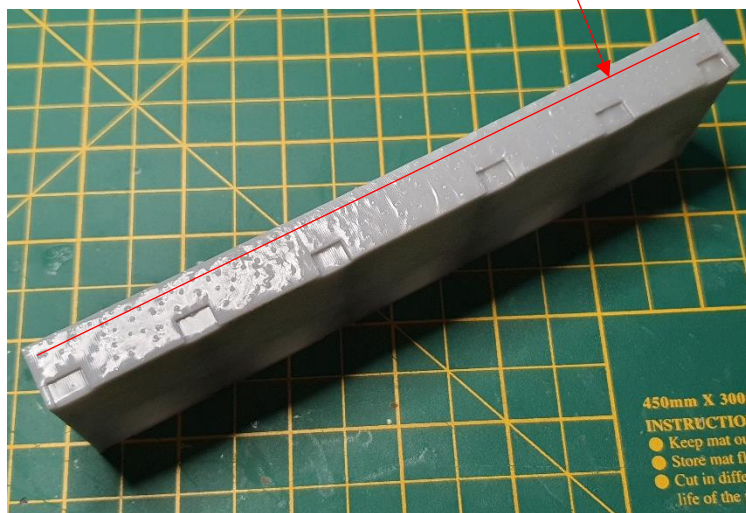
Step 1 – Prep

The first thing you need to do for this kit is to prep it before gluing anything together. This essentially involves filing down some of the support marks on the parts.

Two locations on the body are the bottom edges, and the inside of the window, as this is where the supports are formed to allow the model to be made.



Another place to check is the edge of the floor.

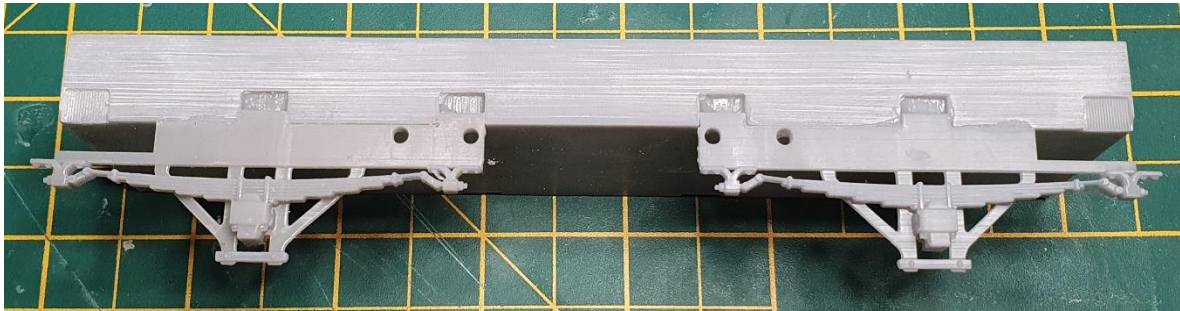


Step 2 – Floor

Once the support marks have been filed down flat it is then time to move to the floor and axle boxes. All you will need to do is file the axle box tabs down so they are a snug fit in the floor.

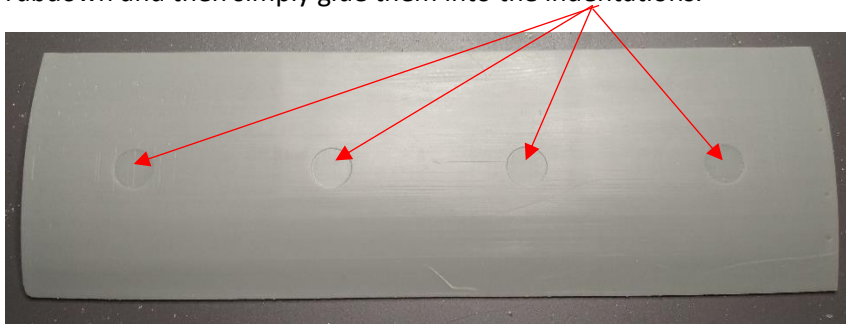
I would recommend only fitting one side for now, as then you can paint the model easier without the wheels in.

This is because to fit the other side on, you'll have to fit the wheels and bearing in the axle box holes.



Step 3 – Roof

On the roof you will find several indentations. These correspond with the number of vents and caps that will come with the coach. All you will need to do is give the underside of the vents a quick rubdown and then simply glue them into the indentations.

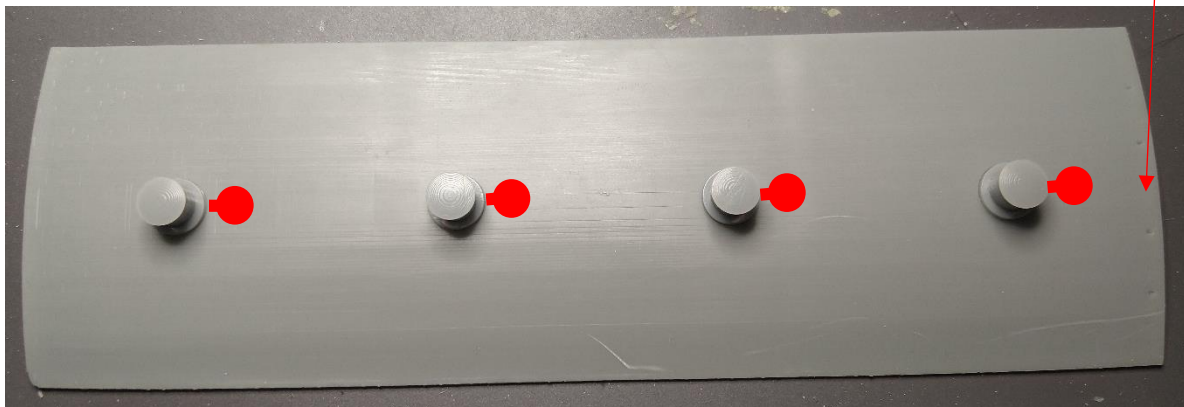


For the caps however there are a couple of ways you can do this.

The first way is to not mount them at all, which I've seen on a few examples that didn't have oil lamps fitted.

The second way is to mount them on the front side of the vents on the centreline of the roof. Where the front is the side which has the guide holes for the handrails. This is the most common way that I've seen them mounted to the roof. Make sure that if you do this, the little tab points towards the vent.

Handrail guide holes
(front)



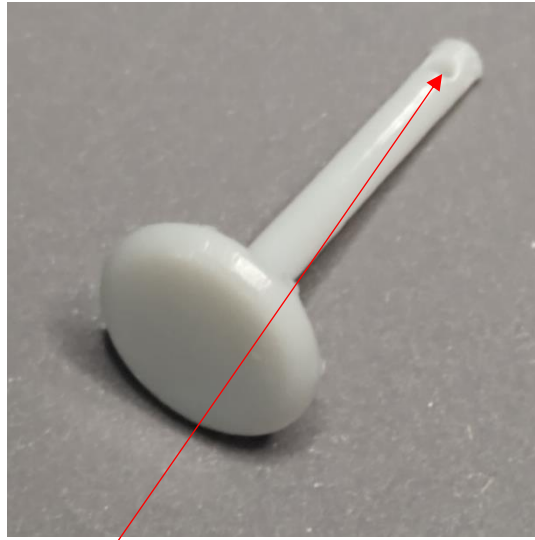
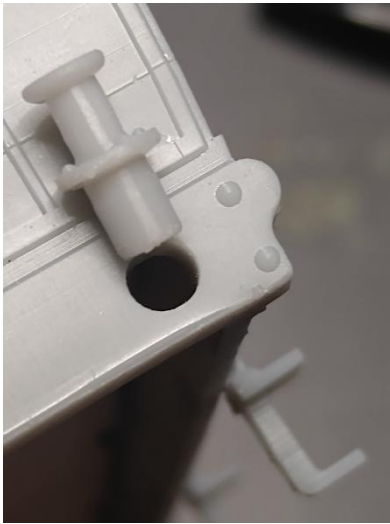
Step 4 – Hangars

For this step all you need to do is simply add some glue to the two tabs on the back of the hangars and then glue them into the corresponding holes on the frame of the coach.



Step 5 – Buffers

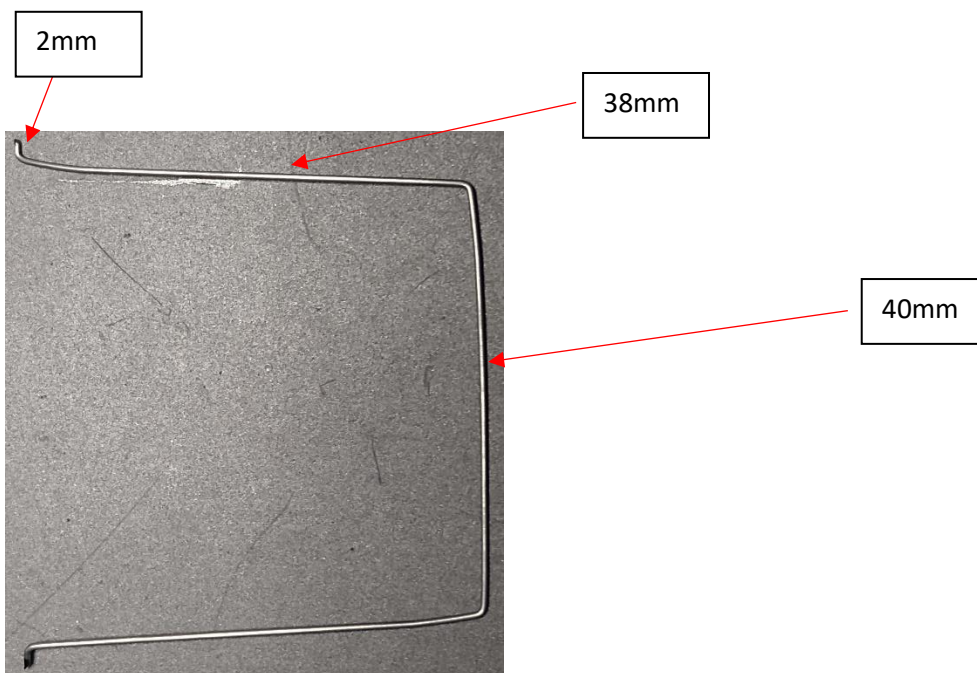
The first thing to do for this step is to glue in the buffer bases into the body.



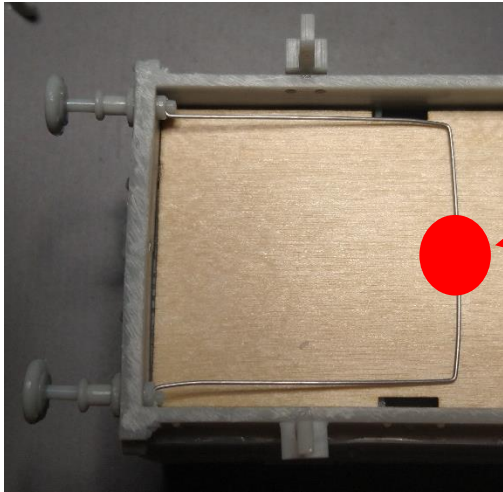
You will notice that the buffers have a small hole in the rear, this is so you can feed the spring wire through.

to sort the wire you will need to cut the 240mm wire into two halves of 120mm.

You then bend it into this shape with these dimensions.



Once this is done you can then feed the main buffer parts through the buffer bases. Keep in mind they may need to be drilled out a bit to allow the buffers to move freely. You then feed the wire into the buffers to make sure it all fits.

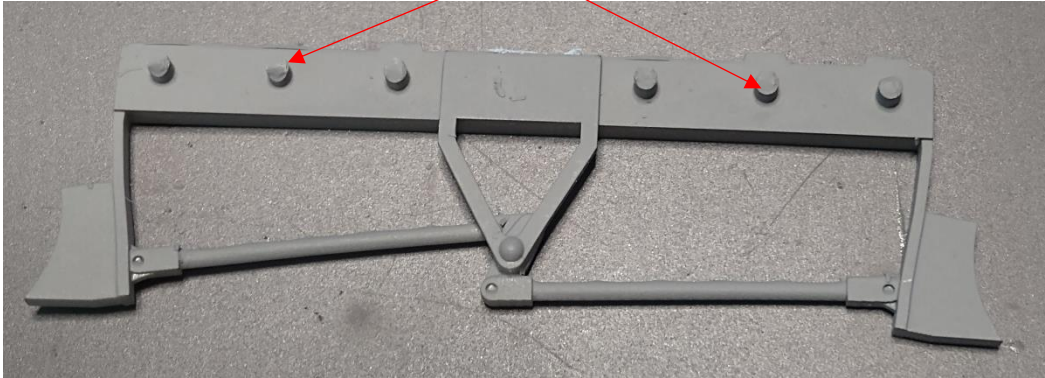


Best place for glue (see below before doing this)

Step 5.5 – Third Brake Specific

The third brake comes with brake blocks. To attach these, you need to feed the two middle tabs through the holes in the axle box so that the two axle boxes and brake blocks are one piece, then you simply slide it in the same way that you do the standard axle boxes.

Feed these two tabs through the axle boxes.



While on the subject of third brake specific parts. The third brake also has a brake wheel that simply attaches in the hole in the base.



Step 6 – Footboards

The first thing you'll need to do for the footboards is trim the wood down to the correct size for each coach. The sizes are as follows:

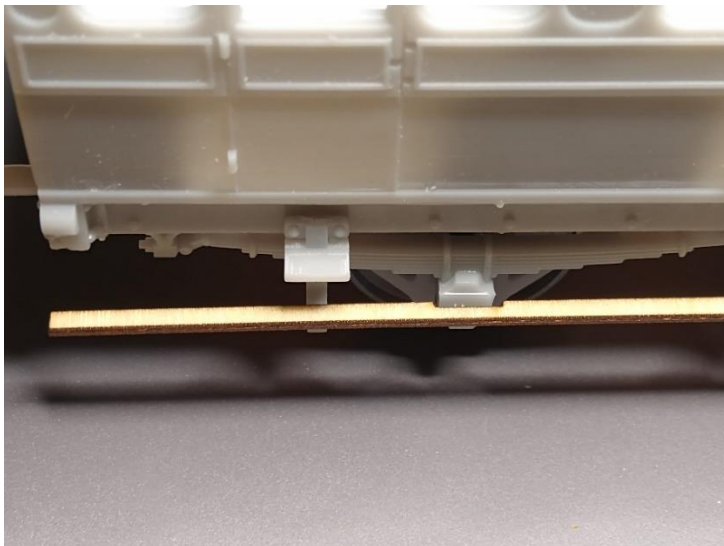
1st and 2nd – 182mm

3rd – 168mm

3rd Break – 176mm

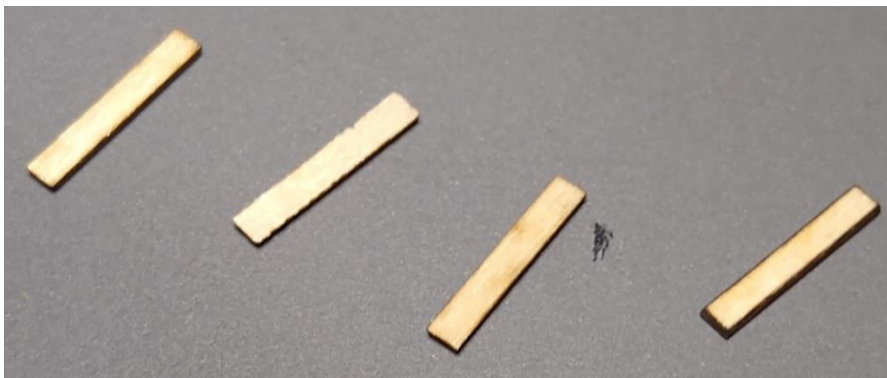
The next thing you'll need to do is turn the coach over but make sure the axle boxes with the wheels don't fall out. As they will need to be there in order to align the footboards.

Once the coach is the correct way up, you can then place the lower footboard onto the hangers. From here what you'll need to do is mark out the location of the axle boxes so that you can then file out an indent to allow the axle box to sit slightly in the footboard itself.



Once this has been glued onto the hangers, you can then get to the upper footboards. There are two options for this, hence why they have been included as one piece. Throughout these coaches life they were upgraded and changed and eventually ended up with full length footboards. So if you wish to represent this, then just simply glue the basic board straight on.

However, if you wish to represent them with individual running boards, as they would have originally had, then you can simply score the wood with a sharp knife into 14mm lengths like so.

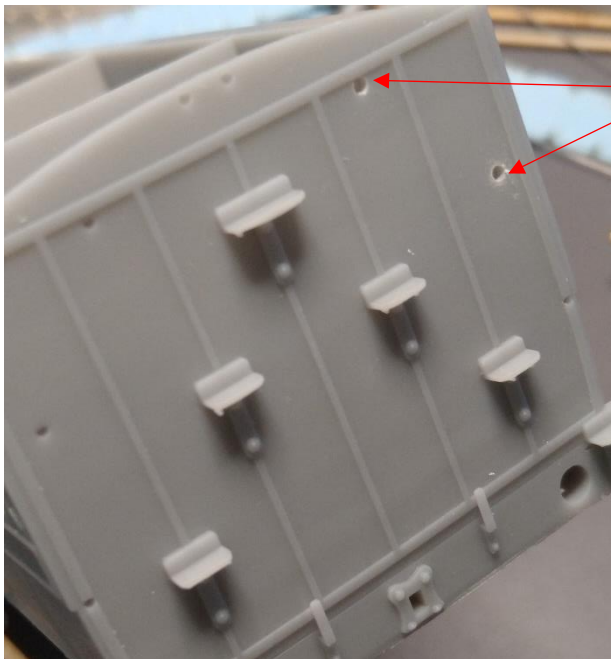


Step 7 – Separate Fittings

Included in this kit is a fret of ten door handles, all you need to do for this is simply snip them off of the fret and glue them into the single holes in the doors.



Also included is some brass rod and knobs. The brass rod is used to create the brass handrails. These handrails are situated on the doors, on the roof, and large rounded ones are found on the stepped end of the non-brake coaches. There is plenty of brass, so if you do mess up, or lose bits, then there should be plenty of spare left to cover that.



Brass knobs go here.

Step 8 – Windows

I recommend doing this step once it's all painted, otherwise you'll struggle to keep paint off of the windows.

Included for each coach will be two sets of windows. To separate them simply place a rule on the etched line and score along the etched line, then just snap it off. You may need to then clean up the edges slightly to fit it into the recessed hole.



Once the windows are in, there are then some frames that go on the doors. When gluing them on, make sure that they are centred.

