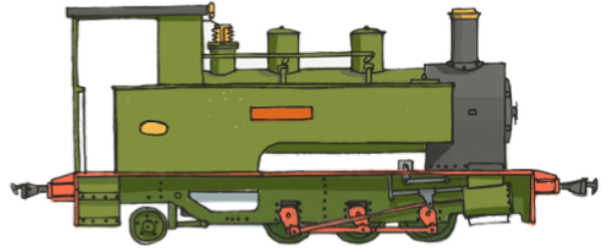


# Bowaters

## MODELS

specialising in distinctive 16mm models



### Bowaters Models – BMC Series Instructions



#### Requires:-

- Accucraft Chopper Couplings (Z1 or Z2)
- IP Engineering Large Laser Cut Bogies (Own choice of gauge)

#### Required Tools

- Fine Sandpaper/Emery paper or boards
- PVA Glue
- Superglue
- Sharp Craft Knife

## Prototype Information

The Lloyd's Paper Company needed a number of specialist wagons for carrying the huge quantities of raw materials needed to serve the paper mill in Sittingbourne, Kent. At first, they were equipped with a small number of bogie flat wagons and 8 Ton wagons (known as Pulp Wagons) which were identical except they had end pieces to hold the bulky raw materials better. In time, the fleet grew to well over 400 wagons with higher capacity 10 Ton and 14 Ton Pulp Wagons serving a massive network at the original Sittingbourne Mill, a new mill at Kemsley and a purpose built dock at Ridham. When the railway closed, a small number were loaned to the Sittingbourne and Kemsley Light Railway for Preservation. A number were sold off the line to form the stock at the Great Whipsnade Railway and to provide additional rolling Stock at the Welshpool and Llanfair Light Railway.

In 1957, 5 Butterley Wagons were converted into 5 Staff Coaches No. 641, 657, 658, 659 and 660 which were formed of 3 different designs. In Preservation, an addition 3 coaches were converted by the railway into Passenger Coaches.

## About the Kit

The kit is a wooden kit comprising of a set of Laser cut wooden parts.

## Chassis Fitting

This kit is designed for IP Engineering Large Laser Cut Bogies. These are assembled as per the instructions with no modifications required. On the top chassis piece, normally distinguishable by the laser cut detailing on the top surface, flip it over so the detailing is facing down. Then draw a straight line down the centre of the piece lengthways. This is needed so that once the chassis has been assembled, the correct position of the Bogies can be achieved. They should normally be added once the chassis has been assembled and should be placed 70mm along the line from each end of the wagon.

## Couplings

This kit is designed to take Accucraft Chopper Couplings (available separately as their part number Z1/Z2). These should be attached into the small flat recesses left on the ends of each chassis. These have been positioned so as to be at the correct height for the 16mm Association standard coupling height. They will also perfectly match the standard coupling height of the Accucraft Leader, Superior and Excelsior Locomotives.

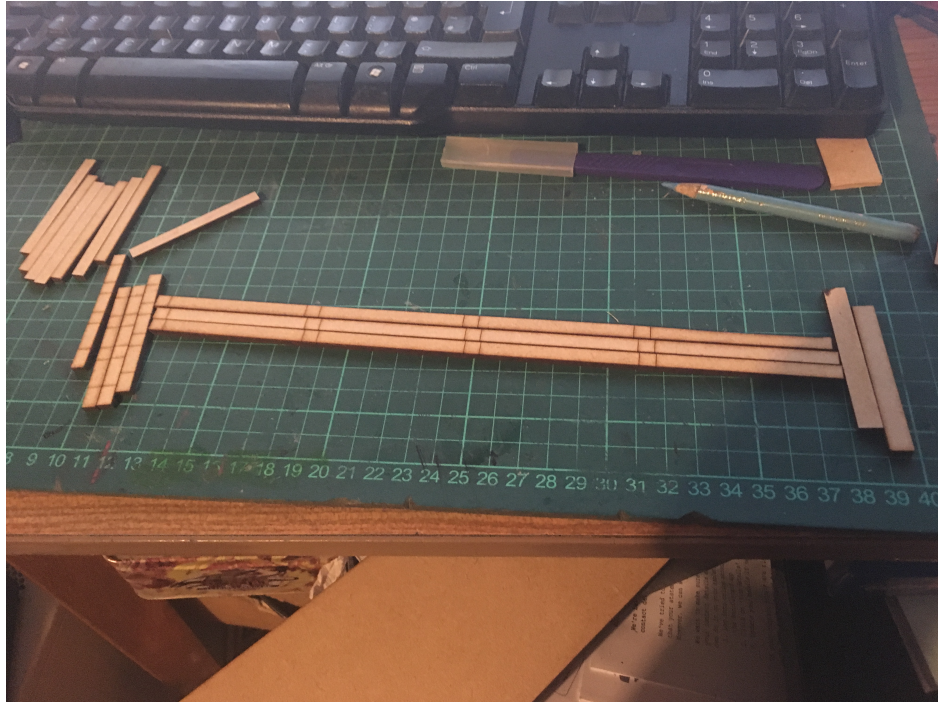
## Instruction notes

With these instructions, there are images which show various stages of the construction of the coach kit. They are of the Prototype BMC-004 kit which isn't representative of the kit you have brought. They are for reference purposes only.

## Painting

In Lloyds and later Bowaters service, all wooden bodied wagons were painted light grey with the steel sections painted black. Numbers were normally hand painted onto the wagons in white. The exceptions to this rule were the later Butterley built Pulp Wagons which were of all steel construction and as such were painted all over black. These had their numbers located on the ends hand painted in white as before but were also fitted with number plates on the chassis sides. The original coaches were painted in a mid to dark shade of green with the window frames and siles being painted white. The Frames and ends remained painted black after the Coach conversion. The interior was painted cream with the seats painted in Varished brown. It is recommended that the interior of the Coach is painted before assembly. The exterior can be painted after assembly. The Staff coaches were painted Red with black metal work.

## General Assembly Notes



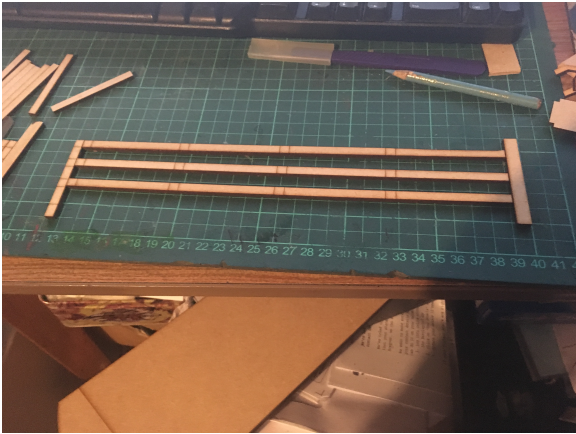
1. Check all the components are there before proceeding with the rest of the kit. There should be the following contents:-
  1. Body
    1. 6 Sides Strips
    2. 8 Upright Strips
    3. 2 Step Holdings (U shaped)
    4. 2 steps
  2. Chassis
    1. 3 Chassis pieces
    2. 3 V hangers
    3. 2 Headstocks (not shown above)

### Part 1:- Chassis

1. The chassis consists of 3 separate pieces. 2 with a hole in the middle and 1 with Laser cut detailing on one side. The two pieces with a hole in the middle should be glued together making sure everything is kept in line. Once this has dried, then the piece with the Laser cut detailing (detailing face up) should be glued on top of the pair already glued together to form a 3 layered piece.
2. Once the chassis has dried, then the bogies can be glued in place into the recess on the underside of the chassis making sure they remain in the centre of the wagon.
3. The couplings can then be glued in place at either end of the wagon leaving you with a rolling chassis.
4. The kit features 3 brake hangers (3 V pieces) which can be glued onto the underside of the chassis. The two larger ones are placed centrally lengthwise along the inside of the chassis with one on each side. The smaller one can be glued 1 third of the way down on either side to the right of the central brake hanger looking onto the side of the wagon sideon. If you wish too, there are two laser etched holes on the centre of the larger pair of brake hangers which can be drilled out and have wire inserted though to give some additional detail underneath.
5. The Chassis can then be painted Black and left to dry. The two headstocks can be painted Black as well. See Part 4 for assembly notes.



## Part 2:- Body

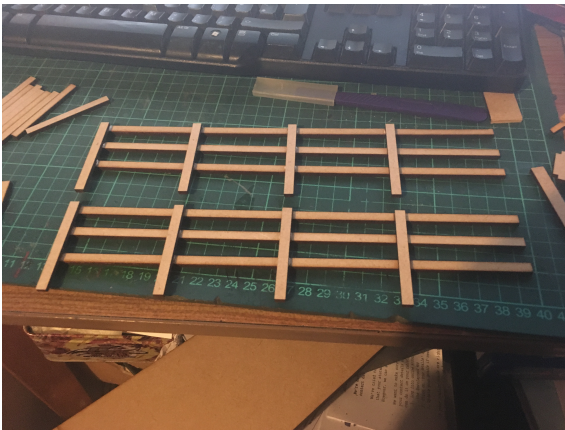


1. Starting with the sides, using the two steps, align the side strips so they are square and all aligned.

2. Then, after checking the vertical spacing, glue on the first upright leaving it to dry to hold the rest in place.



3. Once the first upright has dried, then start to add the rest one by one checking the alignment each time.



4. Once the sides are assembled, make sure all the subassemblies are dried and ready for final assembly.



## Part 3:- Final Assembly

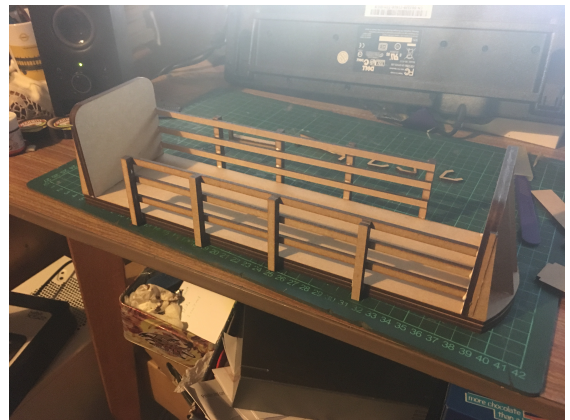


1. The headstocks can be glued on at this point making sure the rear of the headstock sits on the etched line in the top chassis plate.



2. The First side can be now fitted and glued to the chassis. The sides sit level with the bottom of the chassis and glue onto the inside of the headstock.

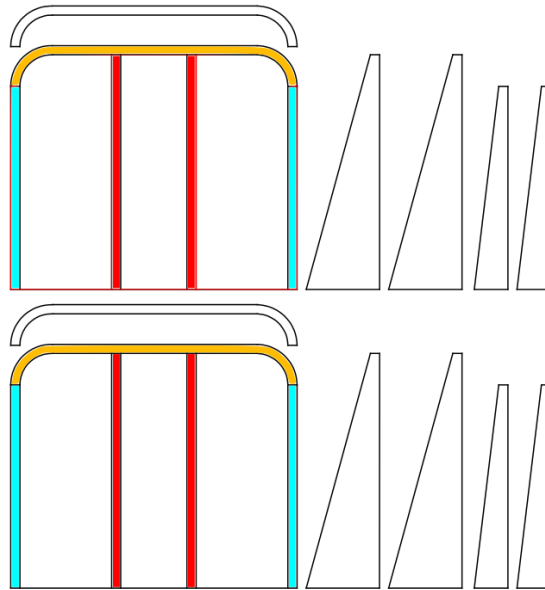
3. The second side can now be added with the same fitting.



4. The bogies can now be attached with the chassis flipped upside down. At this point the couplings can also be added.

## Part 4:- Headstock Assembly

1. The headstock assembly is made up of a number of flat pieces which are shown below. It features of 4 uprights per headstock, one base plate and one curved section over the top.



2. The two larger headstocks fit onto the centre slots in the middle (coloured red) with the two smaller ones (coloured blue). The rounded section at the top is then attached (coloured orange).