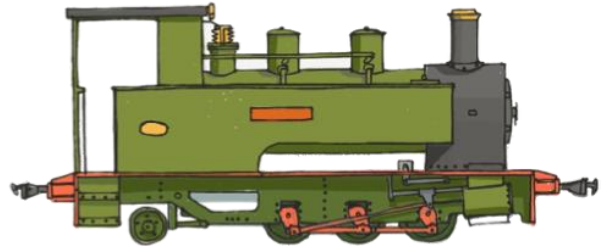


# Bowaters

## MODELS

specialising in distinctive 16mm models



## Bowaters Models – BMF/BMH Series Instructions – 2100 Glaslyn and 150 Gwynedd



### Requires

- Accucraft Chopper Couplings (Z1 or Z2)
- HGLW SAR Bogies (Own Choice of Gauge)
- 2-3 A3 pieces of Craft paper
- Glazing Material

### Required Tools

- Fine Sandpaper/Emery Paper or Boards
- Small Files
- PVA Glue
- Super Glue
- Sharp Craft Knife

## Prototype Information

For the opening of the rebuilt Welsh Highland Railway, a set of 5 new coaches were built. These consisted of 1 Semi Open (2020), 3 Saloons (2040-2042) and 1 brake coach (2090). All 5 were built by Winson Engineering. The Brake Coach was later rebuilt by the WHR into a half service car/passenger coach in 2009. The original Semi-Open was rebuilt into a sister of Service Car '2010' being renumbered '2011' in 2010-2011. Bar the rebuilt '2020', all coaches can be modelled by the Bowaters Model Range.

A few years later as traffic grew, two additional Semi Opens were built by Alan Keef in 2002 numbered 2021 and 2022. These were both rebuilt over the winters of 2012-2014 to include central glazed sections and vinyl covered seats. This marked the end of WHR being completely built by outside contractors. Both forms of these coaches can be modelled by the Bowaters Models Range

In 2006-2007, Boston Lodge built 3 longer saloons numbered 2043 to 2045. These were 1m longer than the Winson Coaches. These haven't been majorly rebuilt at the time of writing so they are considered to be in 'as built condition'. In 2013-2014, a additional coach was built to a modified design with panamic windows numbered 2046. This coach was later cloned between 2016-2017 with the latest Saloon number 2047. All 5 of these coaches can be modelled by the Bowaters Models Range.

Built between 2043 and 2046, the WHR built a pair of coaches: Service Car 2010 and Pullman 2100 'Glaslyn'. 2010 was a change of direction for the combined FR/WHR in that all the facilities needed for the train were now in one coach and as a result, there was no need for a guards compartment in the end coach. Glaslyn was built as a end of train Observation Coach featuring a unique curved end. Both coaches can be modelled by the Bowaters Models Range.

Built at the same time as the original Winson Coaches, the WHR's first Pullman Coach 'Bodysgallen' entered service in 1998 after its Winson sisters. The coach was used to test the bogies for 2010 and 2100 having been converted from SAR bogies to Romanian bogies. After a period of time, it was switched back. The coach can be modelled as part of the Bowaters Models Range.

## About the Kit

The kit is a wooden kit comprising of a set of laser cut wooden parts. If you have a BMH-010 kit, you will also have a pair of 3D printed sections for part of the roof.

## Chassis Fitting

This kit is designed for IP Engineering Large Laser Cut Bogies and or HGLW SAR 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 90mm along the line from each end of the coach. Alternatively, you can attach the bogies closer to the end of the coach to dramatically reduce the minimum radius.

## Couplings

This kit is designed to take Accucraft Chopper Couplings (available separately as Accucraft part number Z1/Z2). These should be attached into the flat sections below the main coach bodies. These have been positioned so as to be at the correct height for the 16mm Association standard coupling height. We strongly recommend setting the coupling height against your existing motive power fleet.

## Instruction notes

With these instructions, there are images which show various stages of the construction of one of our coach kits. They are of the Prototypes for BMH-001 WHR Glaslyn which aren't representative of the kit you have bought. They are for reference purposes only.

## Painting

Over the time period the coaches we have produced have operated, they have carried only 1 paint scheme.

- 2010 onwards – L&Y Plum with Pullman markings

# Please Turn over

Please read though these instructions before beginning to assemble your kit



*Start by gluing the sides together.*



*Now start on the interior. The seat backs and supports are glued in first to start a solid interior.*



*Now glue in the seat tops.*



*Next the table tops go into the interior.*



*Now glue the sides onto the chassis plates. The sides sit level with the seating in the body.*





*Now glue in the interior partitions. These are according to the floor plan on the chassis plate.*



*Now glue in the start of the vestibule end. Use the roof supports to ensure the gap is correct for the further assembly.*



*Now start on the non fixed chairs. The sides go onto the chair backs.*



*Now the chair tops go onto the chairs.*



*With the coach end now dry, you can start on the rest of the vestibule. Start with the doors.*



*Next glue on the coach end plate.*



*At this point, you can add the 3D printed section for the end of the coach. Alternatively you can do the next step then this one in either order.*

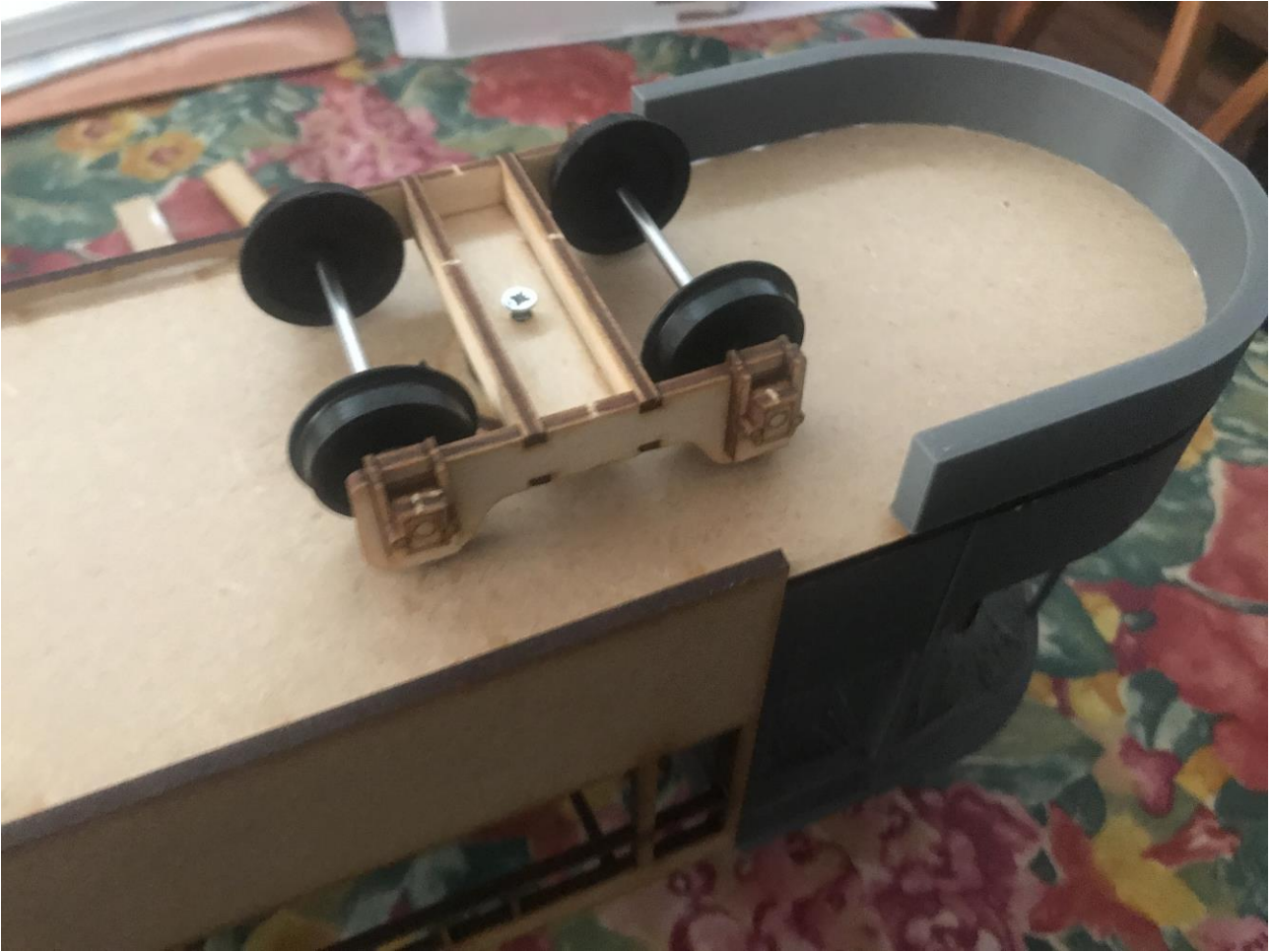


*Now glue in the internal chairs in the non fixed positions.*





*Now start on the underside. Glue the 3D printed section onto the bottom of the chassis.*



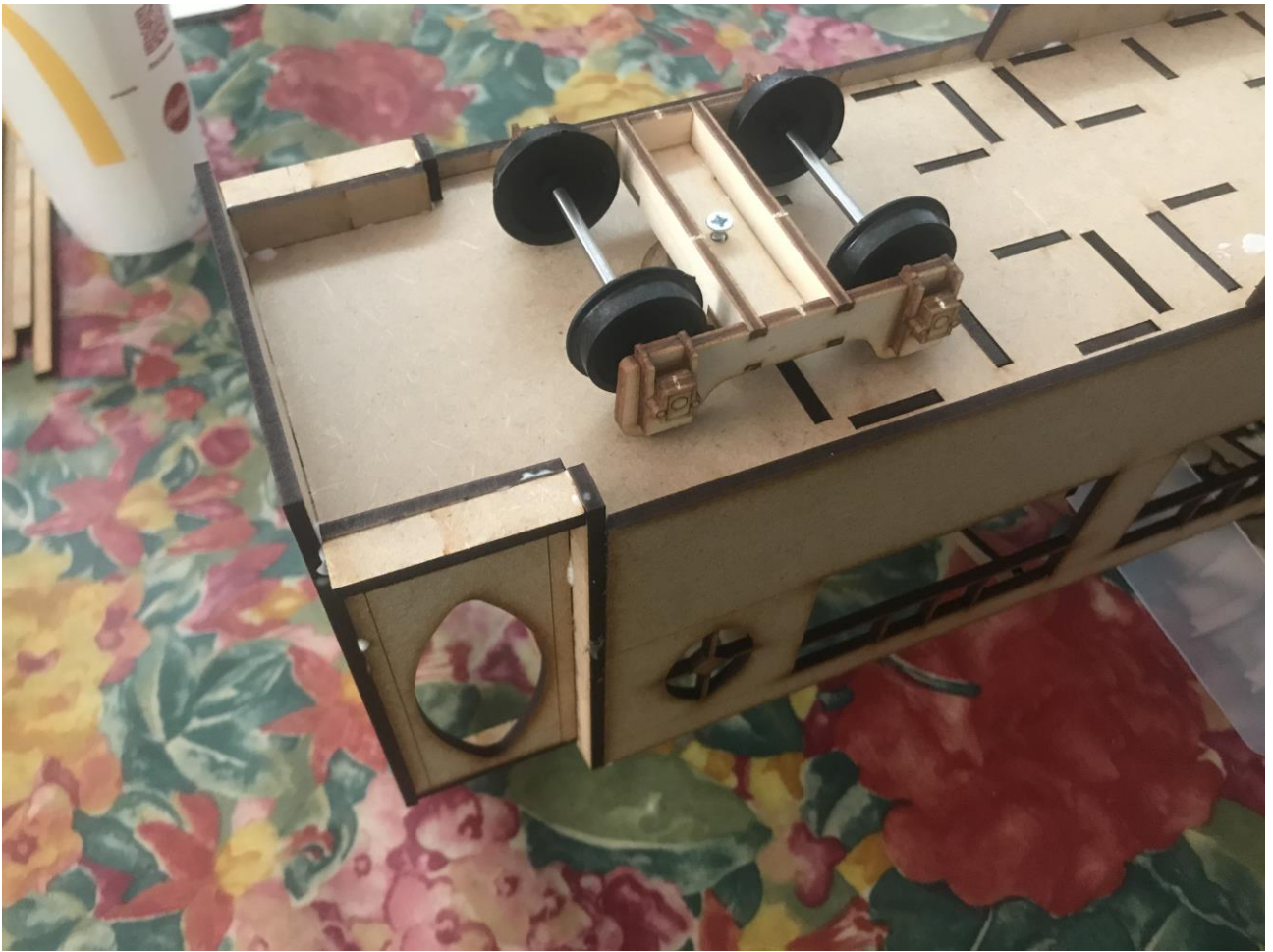
*With the end section in place, glue on the first bogie so you can line up the rest of the underside.*



*Next glue in the chassis underside panels onto the coach with the bogie sat in the middle of the gap.  
On 150, these run the length of the coach from the 3D printed section to the end of the coach.*



*With the coach upside down, you can glue in the end steps for the coach.*



*Now glue in the rear bogie.*



*That's the underside of the coach now complete.*



*Now glue in the corridor connections.*



*Roof time. On Glaslyn, there are two different lengths for the appropriate sections of the coach. On 150, the entire coach has the same length roof sections.*





*Now glue on the couplings. Start on the observation end.*



*Then glue on the rear coupling for the coach.*



*The completed coach.*





We hope you enjoy your Bowaters Models kit! If you have any questions, don't hesitate to contact us on [info@bowatersmodels.co.uk](mailto:info@bowatersmodels.co.uk)



We thank you for your custom.