

Houstoun Gate Locomotive Works Guards Van Assembly Instructions – GV2

It is suggested that you read these instructions through before commencing construction.

A minimum of tools are needed to assemble this kit. Sandpaper and sanding block plus some clamps, strong rubber bands or weights to hold parts in place while the glue dries.

This kit requires glue and paint to complete. It can be built entirely with PVA (exterior type) or aliphatic resin. My favourite is Titebond III waterproof aliphatic. Excess glue can be wiped away with a damp rag. MDF is not moisture proof and the model should therefore be painted or varnished before use. First apply a sealer/primer. MDF sealer or spray can automotive primer can do the job. The cut edges may need more than one application of primer to seal them.. For painting automotive spray paint in cans works well and gives a good finish. If brush painting use acrylic or enamel paint.

Carefully separate the parts from their sheets. Wriggling them lightly is normally enough to break the retaining tab. Sand or file the retaining tabs away on all parts before beginning assembly.

Kit Contents



Chassis construction

Glue the spreader to the centre of the chassis base, then glue the side rails in place. The slots and tabs ensure parts are properly aligned.



Glue the buffer beams onto the chassis. Either elastic bands or domestic clothes pegs can be used for clamping while the glue sets.



Glue the two halves of each buffer together

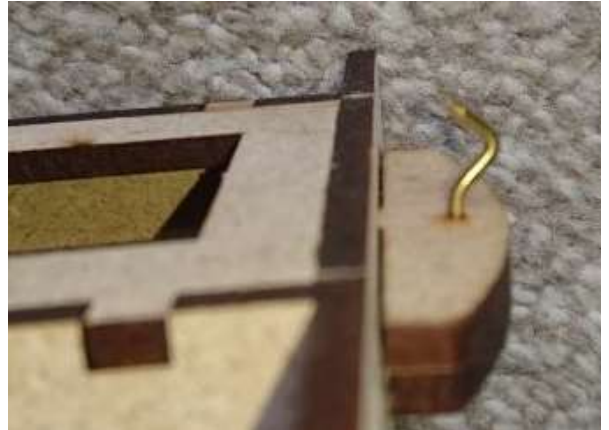


Attach the buffers to the buffer beam.

(Some folk may choose to add their own favourite propriety couplings at this point in place of the supplied ones to suit their preferred type for their own line)



Bend the brass wire to a hook shape and insert it into the hole in the buffer.



The axle boxes comprise of three layers
The back with the large hole, the spring with the smaller hole and
axlebox cover and spring hangers



Assembled axlebox



Thread the washers and bearings onto each end of the axle



Insert the wheel assembly into the chassis. Do not use any glue



Glue the axle boxes in place onto th chassis over the bearings. Make sure you don't get glue into the bearings. Align with the top of the chassis [awaiting photo]

Guards Van Body Construction

Start by glueing the bulkhead with the door into the floor with the door etch facing the shorter end of the floor.

Tip - test fit the brass door handle in the door to ensure it fits. Depending which handle has been included in the kit you may need to open the hole out a little and it is eaier to do this at this stage rather than later.



Fix the van side to the base and bulkhead



Fit the balcony end to the brake van



Glue the roof support onto the roof arch.



Glue the roof support in place, then glue the two corner strengthening triangles in place of the floor. Make sure these align with the edge, but don't hang over the edge, before attaching the rear wall of the brake van



Make sure parts are aligned and square then leave it alone while the glue sets.

Remove the protective film from both sides of the glazing and insert the glazing panes into the window frames. [picture to insert]

Tip: There is no need to sand the small pips off of the edges as they assist holding the window in the hole. There is also a slight chamfer on the glazing edges left by the laser cutter, so if the glazing is too tight to fit one way turn it over.

Tip: Titebond or PVA type glue will not fog the glazing, superglue may, so best avoided.

Attach the window frames to the outside of the van

[picture to insert]

Glue the remaining central roof arch in place.



Chamfer the top edge of the guards van sides so they match the contour of the roof supports.



Apply glue all around the top edges and place the roof sheet so it protrudes evenly on all sides. A couple of strips of wood and several rubber bands should be used to keep the roof in place while the glue dries. (You can use scraps from the chassis sheet).

[replace with picture of guards van]

Tip: It is recommended that you let the roof dry out overnight thoroughly at room temperature.



If you plan to build a number of curved roof wagons, vans or coaches you may find it worthwhile purchase one of our roof assembly jigs.



Final assembly

Glue the completed body onto the chassis. Weigh it down until the glue has fully set.

[Awaiting photo]

Congratulations! That is the guards van complete

If you would like to send pictures of your finished kit to us at **pictures@hglw.co.uk** we love to share them on our website **www.hglw.co.uk** or Facebook page **www.facebook.com/hglocoworks**

We hope you enjoy your kit, but if you have any problem with construction email our technical help line at **techhelp@hglw.co.uk**