

OZ MODS
Quality H.O Scale Epoxy Models
N.S.W.G.R PHG Guards Van Kit
Matchboard sides - LATTER STYLE
Kit does NOT include bogies

LCL KITS

PHG BOGIE GUARDS BRAKE VAN

Vehicle History

The PHG was the largest class of Goods brake van on the N.S.W. Government Railways, 247 were placed in service between 1937 and 1953. They were built by the Railway Workshops and Tullochs of Rhodes, the majority were built by Ritchie Bros. of Auburn.

The Body was of all timber construction and was 36 foot in length mounted on an all steel underframe fitted with automatic knuckle couplers and buffers and were mounted on 2AM bogies but the majority were fitted with 2SA bogies during overhaul.

Assembly Instructions

Recommended Adhesives..... Super glue and reinforce all joints with 5 minute or 24 hour Araldite.

Tools Craft knife, jewellers, screwdrivers, small files, drill Nos. 79, 7I, 68, 61, 55, 52, and 46, pinvice and a 10 BA tap.

1. Check all parts, clean any flash from body parts and straighten any warped parts by warming in an oven at 140F. Then allow to cool on a flat surface, e.g. a sheet of glass.
2. Carefully clean all epoxy parts in warm water and detergent or wipe with acetone and allow to dry, as a silicone release is used in production.
3. Remove flesh from window area by scoring around edges with a craft knife and scrape clean with a small screwdriver.
4. Drill all handrail holes using a No. 79 drill, and buffer pockets using a No 68 drill.
5. Assemble sides inside ends so that the letterboards are level, using Super Glue, and allow to harden; then reinforce with Araldite above floor level and allow to harden.
6. Check that car sits level, by sitting car on a sheet of glass and rocking diagonally. If car does not sit level, warm in an oven at 140F on a flat surface, remove when warm and allow to cool on the flat surface, recheck when cool and repeat if necessary.
7. Check floor fit, sand edges if necessary to obtain a good fit. It is recommended that floor be made removable, so that window glass can be cleaned from time to time, fit floor into position and mark top edge position on end. Form two brackets (L shaped) from 8 mm wide x 10 mm x 15 mm (refer fig 1), from brass or similar material, Araldite into position and allow to dry. When dry, refit floor into position, using Kadee No. 8 or 16 couplers, mark coupler centre and drill floor with a No. 52 drill, mark centre position on bracket and drill bracket using a No. 55 drill, tap bracket with a 10 BA tap.
8. Cut roof to length and glue into position using Super glue and allow to dry, fill all joints with Duco stop putty and sand smooth when dry. If a canvas appearance is required, paint roof with a 50/50 mixture of Aquadere and water and cover with a 2 ply Kleenex Tissue, smooth surface with a dry tissue, remove top tissue layer and recoat with Aquadere mixture and allow to dry.

9. Glue battery box, generator, brake cylinder, brake reservoir and circuit board into position (refer fig 2). Check truss rod pockets are clear by using a No. 7I drill, form truss rods from thicker wire supplied (refer fig 3). Form all handrails from phosphor bronze wire supplied and glue truss rods and handrails into position. Form step brackets from staples supplied, and glue in position under doors under running board as per diagrams 2 and 3. Glue steps on brackets when dry.
10. When roof is dry, trim excess tissue and sand if necessary to obtain desired finish. Mark vent position (refer fig 4), and drill holes for vents using a No. 61 drill and glue vents in place with Super glue.
11. Recommended bogies are a Casula Hobbies 2AA, 21.8mm wheels and bearings, modify the bogies by fitting a .010 thou strip across the bottom of the bogie sides as per diagram 5 and fit spacers supplied across bogie ends as per diagram 5.
12. Paint Schemes:
 - 1) Original:
All Black body, black chassis, silver roof.
 - 2) Modern:
Tuscan Red body, black chassis, silver roof.

Whether to suit.
Code Vehicle PHG.

13. For additional information refer to the article in the June 1983 AUSTRALIAN MODEL RAILWAY Magazine, article.

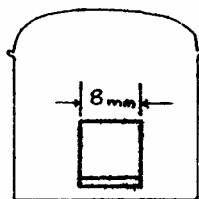


Diagram 1
BRACKETS

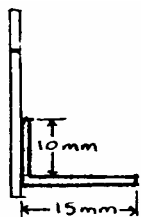


Diagram 5
BOGIE MODIFICATIONS

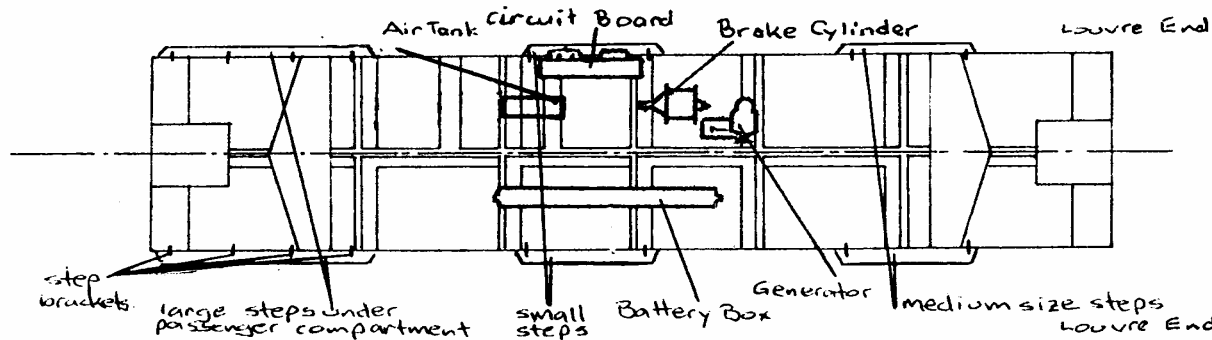
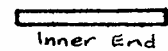


Diagram 2
FLOOR

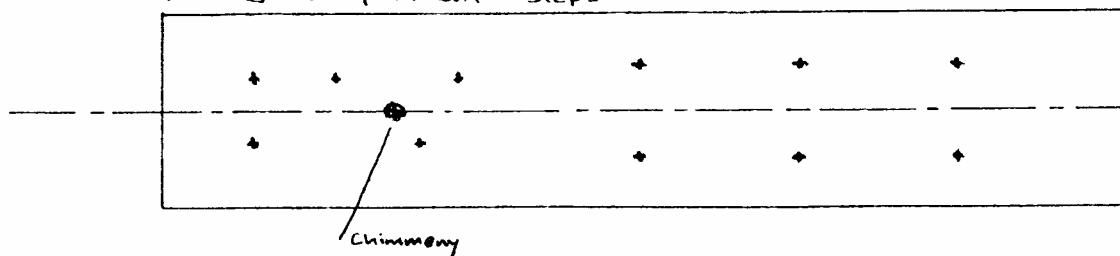


Diagram 4
Roof vents
and
Chimney
- full size -

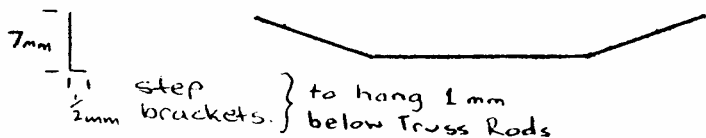


Diagram 3
- full size -
TRUSS RODS