

1049– Victorian Railways QR bogie 3 door wagon

Thank you for purchasing this kit and I hope you get many hours of enjoyment from it. Chris Pearce (Spirit Design)



QR1 photo courtesy of Mark Bau website

Basic history notes: The QR's were some of the first bogie wagons on the VR system. Construction started in 1890 and continued up until 1930. This kit is based on the 3-door version which covers the number range 1-376 and 407.

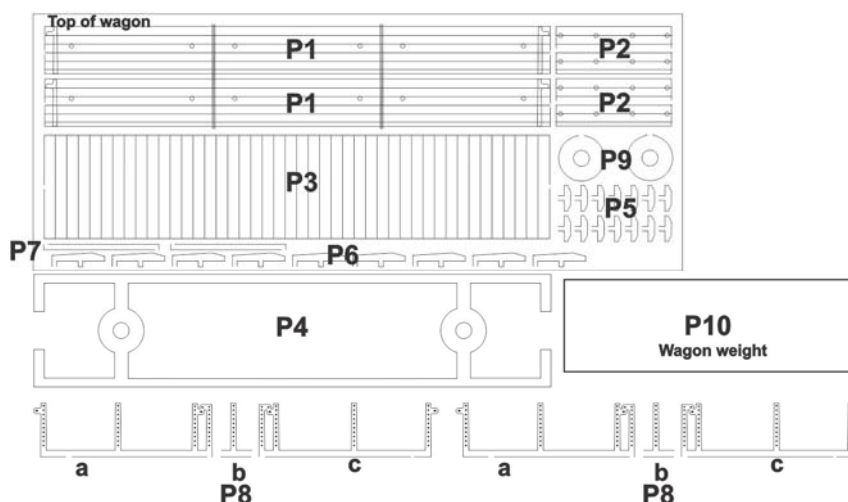
Originally, they were equipped with spindly bar frames that and eventually changed over to the more familiar later series bar frames. Others had plate frame bogies as well as the normal roller bearing that was available. Being a go-anywhere wagon they could be seen over the entire VR system until their usefulness dwindled in later years but found a new lease of life as works trains conveying sleepers and gravel. Towards the end of their life, they received the four-letter coding VOWA but not the many received the check digit. With the 1980s upon the railways and wholesale scrapping of older wagons, the class met that same fate as many other older and obsolete wagons the Victorian Railways deemed of no use.

The kit: Can be put together in a couple of hours. Only minimal tools and basic/intermediate skills are all that is required to build a very accurate model of a VR bogie 3-door wagon. Please read the instructions first to become familiar with the components and the essence of construction. There are a few steps that require close attention and they are highlighted in ***bold and italics!*** Parts referred to in the text are marked ***(P1), (P2)***, etc.

As this is a fragile kit until components are glued together please take your time and familiarise yourself with the prototype using the web pages listed at the end.

Equipment & Materials: ***New/Sharp*** Exacto knife (blade no 16 or similar), small files, pliers, etc. Selly's 'Kwik Grip' water-based, MDF PVA or yellow glue, flat paintbrush 4-8mm wide, ***Spirit Design fine line glue applicator are required for completion,*** paints, etc. Steel blocks or jigs to hold the wagon square whilst assembling the unit.

General assembly instructions: For clarity, the assembly has been shown not painted. You can paint the model after the main bars and wooden components are assembled. After you trim a wooden part from the laser etch gently file the tab flush with the wood with a very fine file or smooth sanding stick



Wagon assembly:

1. Note the orientation of the (P1) wagon side and glue this to the edge of the floor (P3). The scribed floor faces the builder
2. Glue the end wall (P2) to the above assembly making sure the scribed lines match the side of (P1)



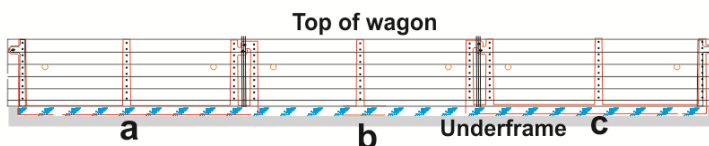
3. The other side (P1) is glued to the floor and then the other end wall (P2) can be glued in place. Make sure that the wagon is square all around and the floor is still flat on your hobby work area
4. (P4) the underframe can now be glued centrally to the underside of the wagon assembly



5. Using glue sparingly attach the 2 bogie bolster washers (P9) to the underframe
6. Glue twelve (P5) side braces into the holes provided in the sides of (P1) making sure that they are pointing vertically. **Cut free only at the section where the part is held as this little stem is what locates it in the hole**
7. Glue the eight end wall supports (P6) into the end walls. **When you cut the part free, this spigot goes into the top hole of the wagon end wall (P2)**



8. Glue the two straight bits of 0.8mm ply (P7) above the end wall braces (P6) at each end, which will then form the top lip of the wagon end. See prototype photo of QR1 or above RHS photo
9. On each side of the wagon, there is an outline of the end part of the strapping (P8). This is to help guide you in laying down the strapping. The lasered marks on the strapping face you when glued down. As this part is quite fiddly it has been made in 3 parts (a, b & c) to aid construction. Using a 3-6mm paintbrush – paint the back of (8a) and place it so the bar that holds the 3 vertical straps sits just below the side of (P1). Repeat for (8c). (8b) is glued centrally in the middle of the centre door. See the diagram below



10. Trim/remove the bar parts of parts (8a, b & c) shaded in blue and white on the diagram above once the glue dries. This will leave just the straps on the wagon. See photos to aid judgement
11. End walls; drill two 0.4mm holes into the LHS for the brass shunter steps. The top two legs of the brass etch are bent 90 degrees and glued into the holes you drilled. Repeat for the opposite end
12. Using a suitable glue, glue the brass weight (P10) supplied into the gap in the underframe
13. Fill the internal holes where (P5) is located in the wagon is to remain empty



Finishing:

1. Paint the entire wagon Steam Era wagon red or equivalent
2. Glue Micro-Trains 1015 couplers to the ends of the wagon
3. Attach bogies after testing the bogie pin in the bolster hole is a snug fit

4. Decal as per photos in the instructions or via the web pages below



QR 12 Mel Skinner

For more information and photos see: www.spiritdesign.com.au, Rob O'Regan's website <http://www.robx1.net/> or Mark Bau's <http://www.victorianrailways.net/> or Peter Vincent's <http://www.pjv101.net/indkex.htm>
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