

To try and do justice to such an iconic prototype as the Queen Mary brake van required a kit of a sophisticated level. The amount of work required is far more than would normally be expected for a wagon. Approach the construction with the same mindset as you would have for say a small locomotive. I hope you find it then gives you many hours of pleasantly challenging model making and provides a brake van of distinction.

I am happy to stand by this kit as the best work that I can achieve and its probably as good as I will ever get. I hope that you find this reflected in your modelling experience.

Because of the kits sophistication I have made a number of assumptions about you the modeller. I assume that you are relatively experienced and require the instructions to show when and where to fit parts but not how to because you have your own construction

techniques. If this is not the case all is not lost as you can contact me for extra advice.

There are a lot of embossed bolt and rivet heads and I assume you have some form of rivet press in your tool kit. I use and would recommend the one produced by Dick Ganderton, Graskop, Dewlands Road, Verwood, Dorset, BH31 6PN, Tel 01202 822701. It is available with a number of different sized punches and anvils but if you were only going to get one size

then I would recommend the 7mm scale $1\frac{1}{2}$ " diameter.

I assume that you have a set of traditional folding bars similar to mine. Particularly as a number of parts require folding after bolt heads have been embossed. By lining the face of one of the bars with two or three layers of masking tape, you can still clamp the part without crushing the bolt heads but you wont get such a tight fold, so deepen the fold line with a triangular file.



I assume that if required you will be happy to carry out additional prototype research with regards to livery and detail changes post 1970. I expect that most diesel and electric modellers will already have their chosen prototype and reference photos.

Reference book:- An Illustrated History of Southern Wagons, Volume Four, OPC, ISBN 0 86093 564 7.

I recommend visiting www.bluebell-

railway.co.uk/bluebell/ cw news/56290.html This site features the superb restoration of a van in SR Livery.



Lettering

COMMON USE



Page 3

Queen Mary Brake Van Etched Parts Identification



All parts are repeated twice to provide the kits full set of etched components. Extras are provided for a number of the smaller components.



When I make a set of dedicated moulds for producing a set of castings for a kit I try to take a bakers dozen approach and repeat some castings to cover for failures. So hopefully you will have some spare castings.

Wire and Rod

- 1 X 20" length of 0.018" fine spring wire for bogie sprung wheel suspension.
- 1 X 10" length 0.45mm hard brass wire. 4 X 10" length 0.7mm brass wire for handrails etc.
- 2 X 10" length 0.9mm brass wire for sandpipes etc.
- 1 X 6" 22swg soft tinned copper wire for air reservoir hoops & pipework.
- 1 X 6" spring steel wire for buffer springing (may be tarnished black).
- 1 X 12" length 1.2mm copper rod for air pipe.
- 2 X 12" length 1.4mm copper rod for vacuum pipe and cross shafts etc.

Before construction commences you must decide if you wish to build a vacuum brake only vehicle or a duel air and vacuum braked van. The pipes that run along the solebars are represented by different thickness copper rod supported in the closed up heads of split pins. Holes to take the split pin legs require drilling at marked positions on the rear of the solebar.

Positions marked with a V are for the vacuum pipe that was fitted to all vehicles. The bottom solebar lip is also cut back to allow the pipe to run under the vehicle.

Positions marked with a A are for the smaller diameter air pipe that was fitted to the opposite solebar on duel braked vans (remember to redrill holes after fitting the detail overlays parts 22). There was also two oil boxes for the bogie pivots on this side and their position is marked with a O.

Emboss bolt head detail and then fold solebar lips through 90°. The bolt head detail on the solebar faces is definitely required but there is bolt head detail on the lips and whether this is worth the effort is probably dependent on how easy you find folding parts without flattening embossed detail.













Page 11





Page 13



The roof is not an etching but is guillotined from sheet brass and then passed through my rolling bars. I suggest marking centre lines and component positions on the underside before fitting edging strips.

90°

I suggest leaving the edging strips still tagged into the surrounding fret and pining this to a block of soft wood. Then solder the roof to the strips locating in the etched rebates. Then remove by cutting through the tags with a sharp knife point. Spot solder one end of rainstrip first. Then curve down other end and 2mm solder to roof Stage 24 on inside of curve. 78 Centreline 68mm 2mm 34mm 8ímm Centreline . 34mm 79 Chimney 22.5mm 22.5mm **Roof Vents** Not all vans were fitted with roof vents 13mm so check photos of

Page 15

2mn

your chosen prototype



Page 16

Stage 27

(85)(86)

Vacuum Cylinder



Airbrake Piston Cylinder



Air Reservoir

When vans were modified to dual air and vacuum brakes. The inboard vee hangers were moved to the outer Solebars and longer cross shafts fitted. One vacuum cylinder was moved to sit alongside The other (against the air piped solebar). Airbrake piston cylinder and a air reservoir cylinder were fitted into the vacated space (on the vacuum piped solebar side). Cranks and linkage were fitted so that the two cross shafts would rotate together when the air brake piston operated.

(83

(87)(88)

(89)

84

(83)

(85)(86)

84

Drill out cylinder casting to accept etched piston crank



Soft wire retaining hoops and pipework

Cross Shaft Linkage



Stage 30

After the buffers are fitted the bogies can be temporarily fitted and the vehicle track tested. Check how the buffer heights correspond with your existing rolling stock. The buffer height can be increased by fitting an additional pivot washer (part 20) or extra packing made from scrap.



20

(97)

97



