

B.R 12T PLYWOOD VAN. (WW11) 8 SHOE BRAKED.



Illustrated above is the B.R. 12T Ventilated Plywood Van with,
plain axle box and OLEO buffers.

History

The final chapter of the standard 12T ventilated van is comparatively uncomplicated. The bodywork changed from planked to plywood or a combination of both. The wheelbase remained at 10ft 10in with only the later batches having eight-shoe clasp brake gear. Buffer length changed on later batches but oil axle boxes were retained throughout.

B762180 to B762279	12T VAN (Diagram 1/208)	9/1955 to 10/1955	2470	BR Darlington
B763281 to B764030	12T VAN (Diagram 1/208)	1/1955 to 5/1955	2414	BR Wolverton
B764481 to B768880	12T VAN (Diagram 1/208)	10/1956 to 3/1957	2367	BR Darlington
B768881 to B766400	12T VAN (Diagram 1/213)	4/1955 to 11/1955	2422	BR Darlington
B766401 to B767600	12T VAN (Diagram 1/208)	5/1955 to 1/1956	2706	BR Wolverton
B767601 to B769400	12T VAN (Diagram 1/208)	12/1955 to 10/1956	2707	BR Wolverton
B769401 to B769900	12T VAN (Diagram 1/208)	3/1957 to 4/1958	2735	BR Darlington
B770151 to B770650	12T VAN (Diagram 1/213)	12/1956 to 3/1957	2840	BR Wolverton
B770651 to B771450	12T VAN (Diagram 1/208)	2/1957 to 7/1957	2841	BR Wolverton
B771451 to B772200	12T VAN (Diagram 1/208)	2/1956 to 10/1956	2855	BR Wolverton
B772201 to B772950	12T VAN (Diagram 1/213)	9/1956 to 4/1957	2856	BR Ashford
B773351 to B774450	12T VAN (Diagram 1/213)	7/1957 to 2/1958	2990	BR Ashford
B774451 to B778849	12T VAN (Diagram 1/208)	3/1958 to 10/1958	2991	BR Wolverton
B778851 to B776150	12T VAN (Diagram 1/208)	5/1957 to 10/1957	3007	BR Wolverton
B776551 to B777350	12T VAN (Diagram 1/213)	3/1957 to 3/1958	3023	BR Darlington
B777351 to B778200	12T VAN (Diagram 1/213)	9/1958 to 3/1959	3086	BR Ashford
B778251 to B778750	12T VAN (Diagram 1/213)	3/1959 to 6/1959	3228	BR Ashford
B779851 to B780550	12T VAN (Diagram 1/208)	4/1958 to 10/1958	3109	BR Wolverton
B780551 to B781750	12TVAN (Diagram 1/213)	8/1958 to 1/1960	3164	BR Wolverton
B784873 to B786872	12T VAN (Diagram 1/213)	8/1961 to 7/1962	3398	BR Ashford
	12T VAN (Diagram 1/208)			Charles Roberts Ltd
	12T VAN (Diagram) 1/224			Pressed Steel Ltd

The running numbers highlighted in **bold** are covered by this kit.

Reference Books

British Railways Wagons the First half million
 By Don Rowan
 ISBN 07529 03780

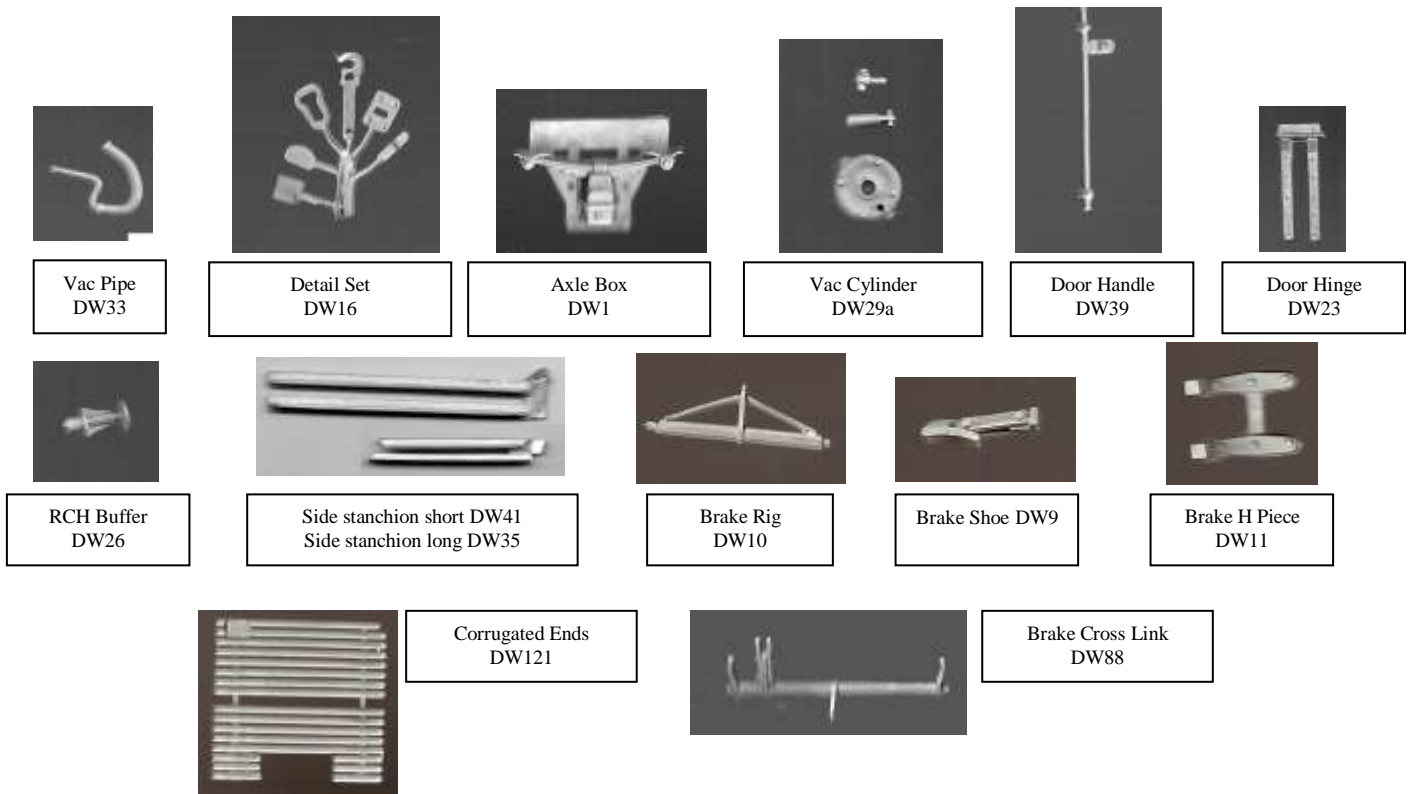
British railways Goods wagons in Colour
 By Robert Hendry
 ISBN 1 85780 03780

Wagons of the Middle British Railway Era
 By David Larkin
 ISBN 978-1-905505-06-7

Web References
<http://paulbartlett.zenfolio.com/bvranplanked>

Parts List
 Etch, Instructions and W/M castings

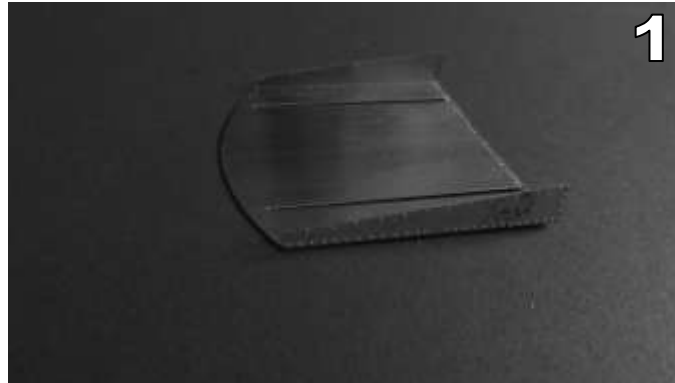
4 x Spit Axle Box Split	DW1	2 x Detail Kit	DW16
2 x Vac Pipe	DW33	1 x Vac Cylinder	DW29a
2 x Corrugated Ends	DW121	8 x Side Stantions Short	DW41
2 x Door Handle	DW39	4 x Brake Rig	DW10
4 x Brake Shoe	DW9	1 x Brake Cross Shaft	DW88
2 x Brake H Piece	DW11	4 x Side Stantions Long	DW35
4 x RCH Buffers	DW26	4 x Hinges	DW23



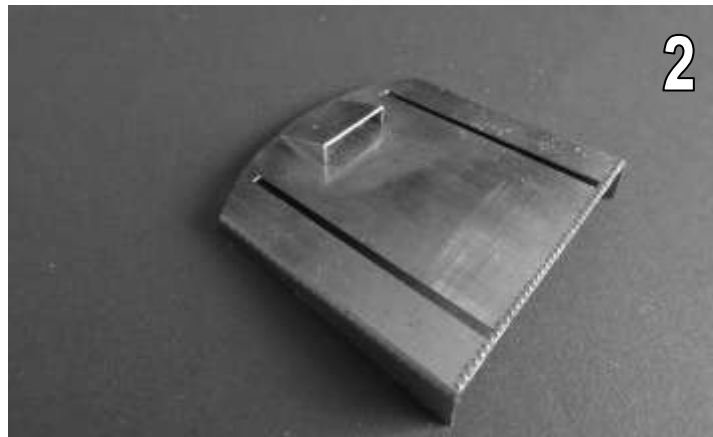
ITEMS REQUIRED TO COMPLETE, 2 x sets of 3'1" 3hole wheels sets inc. bearings, Slaters 7122 or the New Welcome turned steel insulated Wheels, C/W Ball Races, paint and transfers. These items except the paint can be found on the website www.modelrailwaywagons.co.uk

Instructions

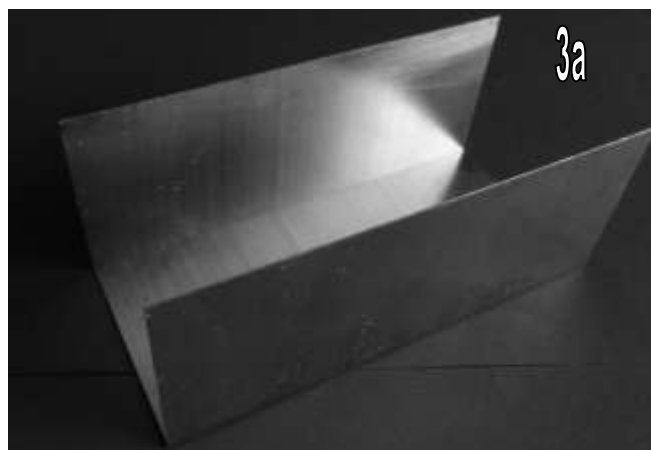
1. Take van ends (1) and fold etched corner overlay see photo (1), also push out rivet detail along the bottom edge, as per photo (1).

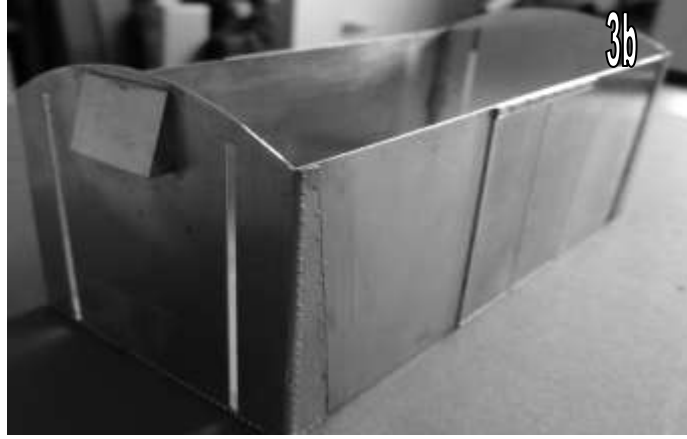


2. Fold up vents (2) and solder to top of the ends in centre 17.5 mm from inside of slots, as per photo (2).



3. Now solder sides into a □ shape and solder ends onto preformed sides (3), as per photo (3a & b).

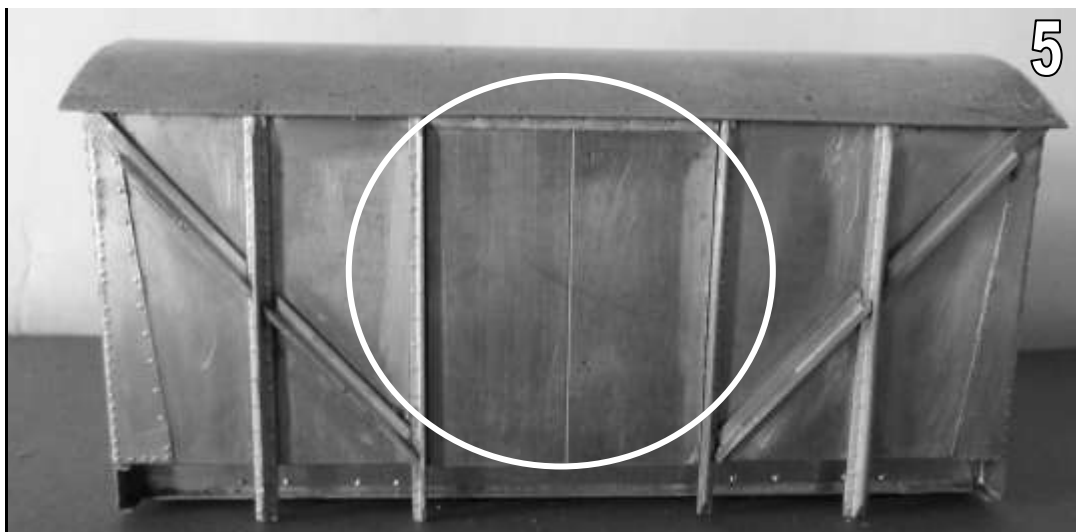





4. Take doors (4) and bend over rivet detail at top, see photo 4

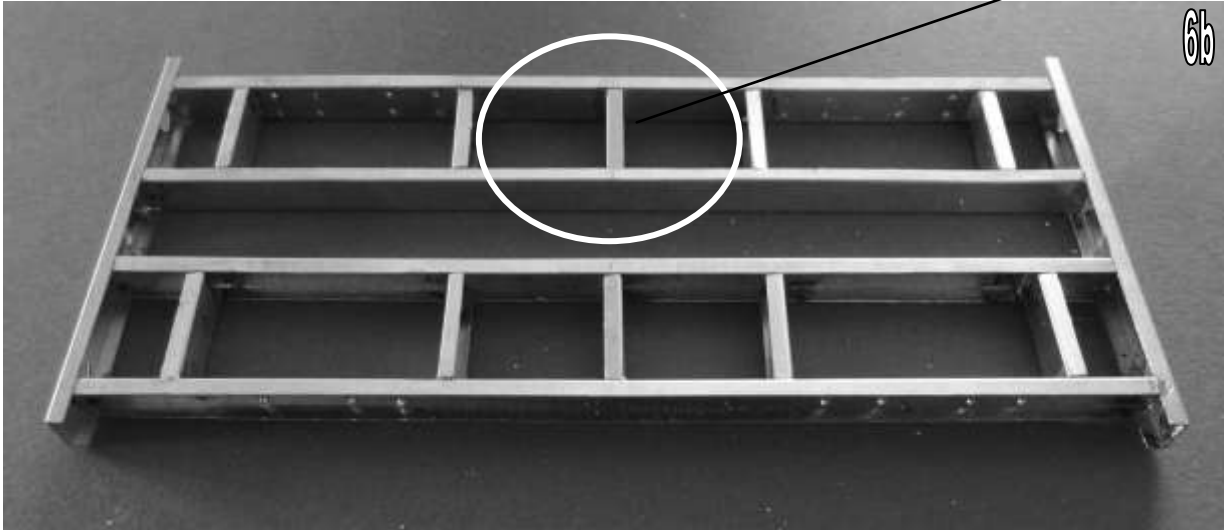


5. Solder door overlays (4) onto the van sides see circled area in photo (5). By mixing and matching doors subtle variations can be created as per the prototype i.e. Ply doors onto ply sided but on the planked van you can have planked doors or if rivet detail is removed you can re-solder to top of door on plain side and have ply doors on a planked van.



Chassis 8 Shoe Brake (see diagram 2)

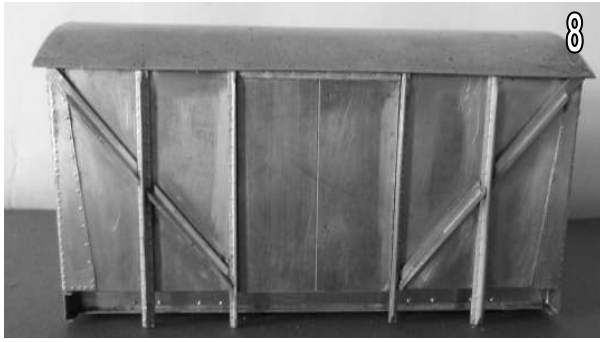
6. Take headstock (8), sole-bar (6), inner sole-bar (7), and four chassis cross bars (9) From etch and fold up into  shape.
7. Take the two headstocks (8) and sole-bar (6) and solder together. The sole-bars should be 44.5mm apart and leave out one centre cross bar to allow space for vac cylinder. See photo 6a & 6b. Make sure all is square



8. Offer up axle box castings **DW 1** and mark inside of sole-bars, then solder the four cross members (9) as photo 6b. Then solder inner sole-bars (7) to these and to headstock, making sure all is square. See diagram 2
9. Now attach chassis to underside of body, see photo 7

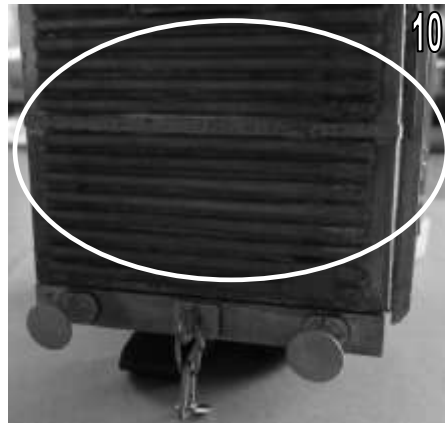


10. Now bend roof to profile and fit. See photo 8 & 9

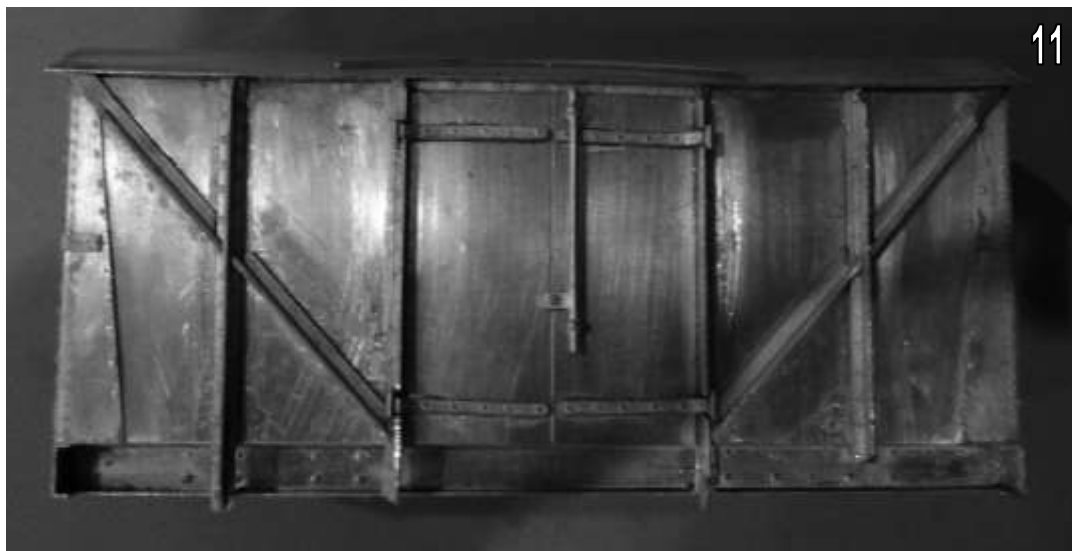


11. Take corrugated end castings **DW121**, fit into slots on ends. See photo 9

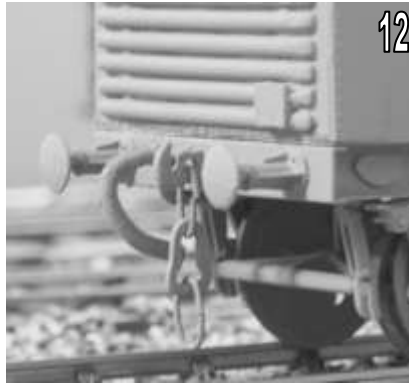
12. Remove strapping (10) from the etch, this fits in between the end casting. Wrap around sides cutting off any excess that protrudes past inside edge of the corner overlay, see photo 10 circled area.



13. Add body side strapping **DW41 & 35** (best glued on). Fit the door handles **DW39** into locating holes in door overlay (4), these may need to be drilled out then glue the door handle once in position. The vertical strapping next to the door will need one side removing and slots for door hinges **DW23** will have to be cut. (ii). The diagonal strapping **DW41** will need to be cut to size, filed top and bottom to fit, see photo 11



14. Fit buffers **DW26** and headstock detail, hook plate **DW16**, vac pipes **DW33** etc. See photo 12 & 13
15. This should complete the body



16. Fit both V hangers behind the solebars, locate the first one (13) up against the centre cross member and using the distance from the adjacent cross member transfer this measurement across to the vacuum cylinder side and fix your other V Hanger with a cross stay(14) to the inside of the solebar. Next fit the brake handle link (17) to the cross shaft and the end of the brake handle. See Photo 13a & 13b. Secure brake pin down bars (17) to the outside of the solebar 16mm from outside edge of headstock. Thread the brake handle through the pin down bar and locate the other end to the brake link.



17. Fit vacuum cylinder **DW29a** to the side where the cross member is removed, brake cross link **DW88**, brake shoes **DW9**, brake rigs **DW10** and brake H pieces **DW11**, all of which are castings, see photo 13a, 13b and 14



18. Now you have a completed model give it a good wash to remove any trace of flux and when completely dry paint to the colour of your choice

Diagram 1 (Not to scale)

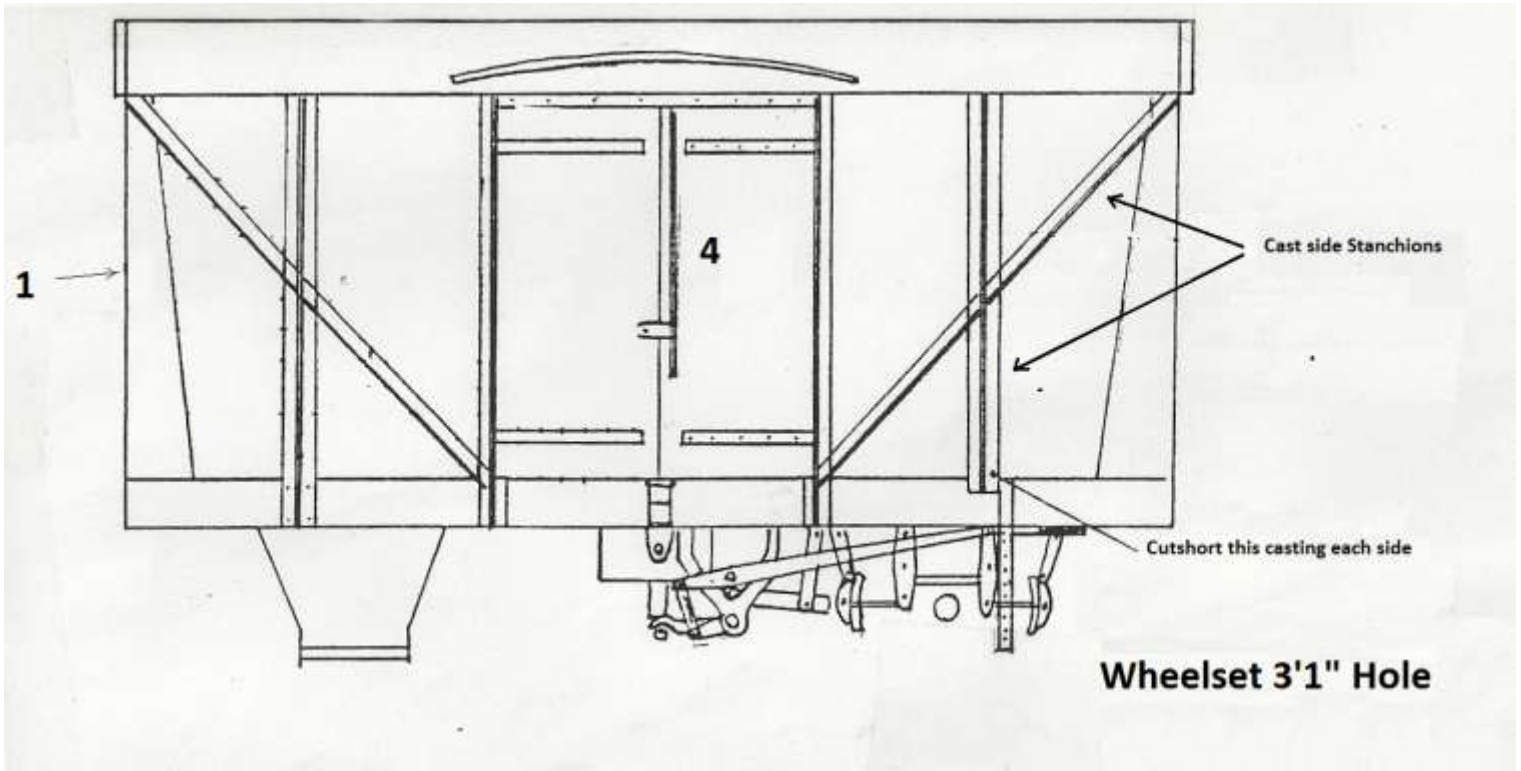
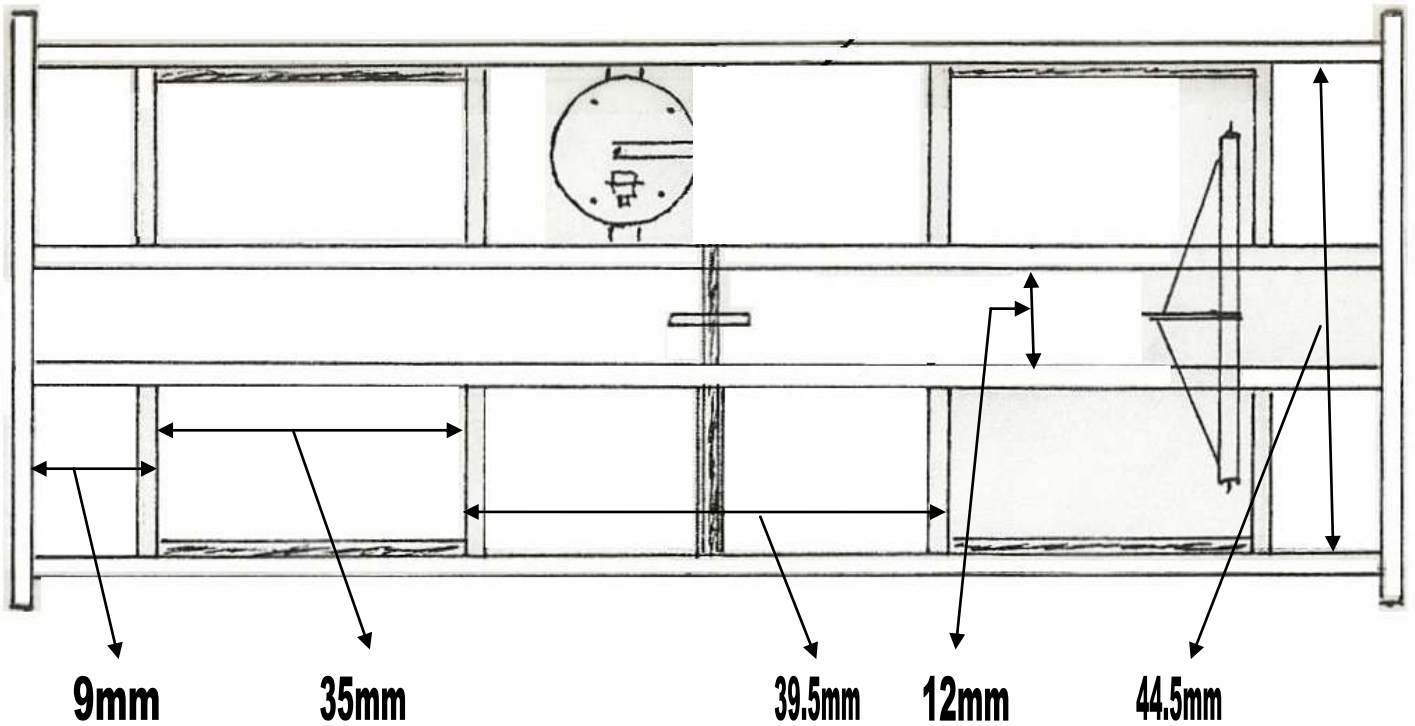
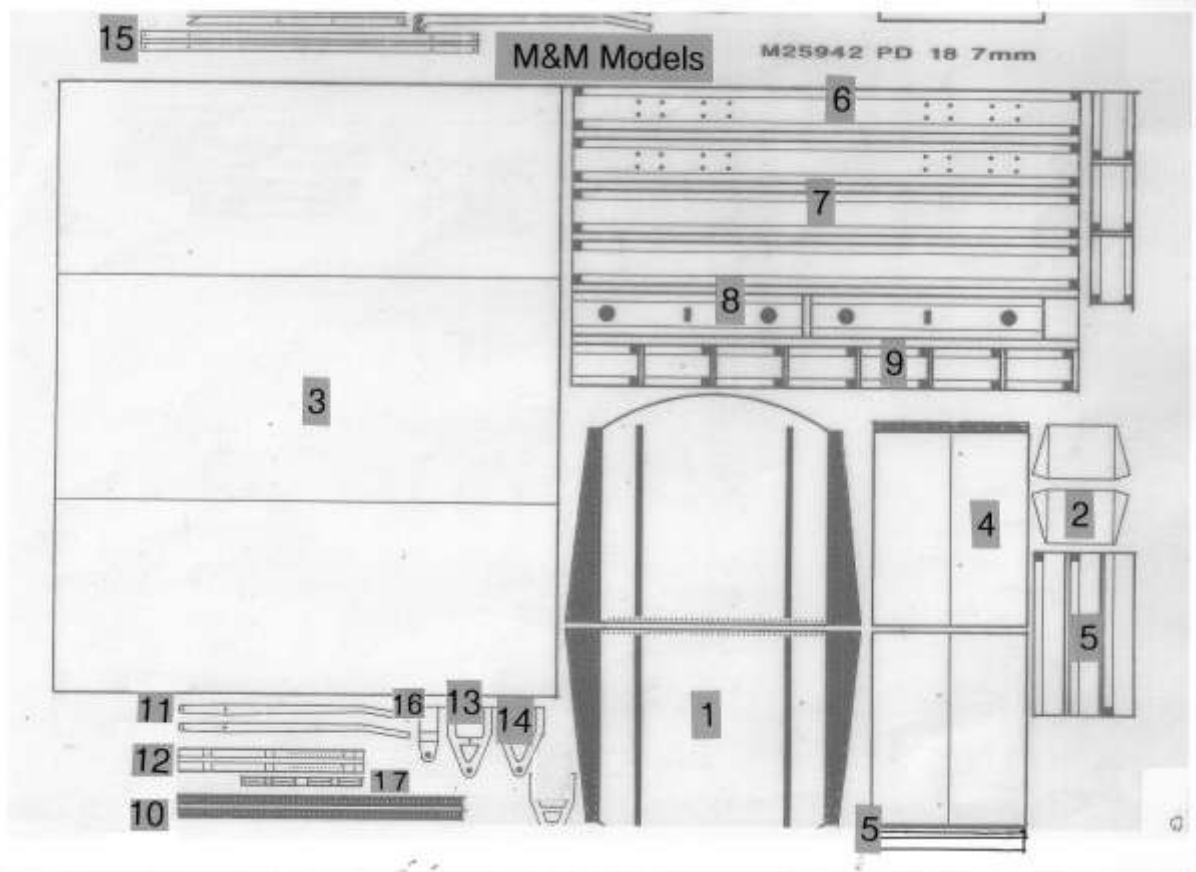


Diagram 2

Arrangement of Underframe (Not to scale)





- Etch Key
- | | | | |
|------------------|-------------------|-------------------|--------------------------|
| 1. Ends | 2. Vents | 3. Body | 4. Door Overlays |
| 5. Not Used | 6. Outer Solebars | 7. Inner Solebars | 8. Headstock |
| 9. Cross Members | 10. Strapping | 11. Brake Handles | 12. Pin Down Bars |
| 13. V Hanger | 14. V Hanger | 15. Not Used | 16. Brake Handle Bracket |
| 17. Brake Link | | | |

