

## B.R 12T PLANKED VAN. (WW12) 4SHOE BRAKED.



Illustrated above is the B.R. 12T Ventilated Van with planked doors,  
plain axle box and RCH buffers.

### History

British Railways came up with a blend of two types of van diagram 1/208 which has single vent corrugated steel ends and plank sides with cupboard doors. The roof profile was to the GWR pattern although the vans were slightly taller than the GWR built stock. All were vacuum brake with Morton four shoe vacuum brake gear and all were 10 foot wheel base.

Then the bodywork changed from planked to plywood or a combination of both, the wheel base remained at 10 foot with only the later batches having eight shoe claps brake gear.

B755180 to B756679	12T VAN (Diagram) 1/208)	2/1951 to 11/1951	2181	BR Wolverton
B756680 to B758179	12T VAN (Diagram) 1/208)	10/1951 to 8/1952	2182	BR Wolverton
B758180 to B759179	12T VAN (Diagram) 1/208)	6/195 to 1/1953	2318	BR Wolverton
B759180 to B760429	12T VAN (Diagram) 1/208)	1/1953 to 11/1953	2319	BR Wolverton
B760430 to B760679	12T VAN (Diagram) 1/208)	12/1952 to 11/1954	2503	BR Wolverton
B760680 to B760879	12T VAN (Diagram) 1/208)	12/1952 to 3/1953	2347	BR Darlington
B760880 to B761343	12T VAN (Diagram) 1/208)	3/1954 to 9/1954	2421	BR Darlington
B761380 to B762179	12T VAN (Diagram) 1/208)	11/1954 to 6/1954	2465	BR Wolverton
B762430 to B763279	12T VAN (Diagram) 1/208)	6/1954 to 12/1954	2595	BR Wolverton

**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/bryanplanked>

**Parts List**

Etch, Instructions and W/M castings

4 x Axle Box Split	DW1	4 x RCH Buffers	DW26
2 x Vac Pipe	DW33	2 x Detail Kit	DW16
2 x Corrugated Ends	DW121	2 x 10ft Brake	DW31
1 x Vac Cylinder	DW29 a	4 x Brake U's	DW75
4 x Hinges	DW23	2 x Door Handle	DW39
8 x Side Stantions Long	DW35	8 x Side Stantions Short	DW41
1 x Cross Shaft	DW30	4 x V Strapping	DW45



Detail Set  
DW16



Axle Box  
DW1



Vac Cylinder  
DW29a



Brake Shaft  
DW30



Door Handle  
DW39



RCH Buffer  
DW26



10ft Brake  
DW31



Side stanchion short DW41  
Side stanchion long DW35



Vac Pipe  
DW33



Door Hinge  
DW23



Brake U  
DW75



Corrugated Ends DW121



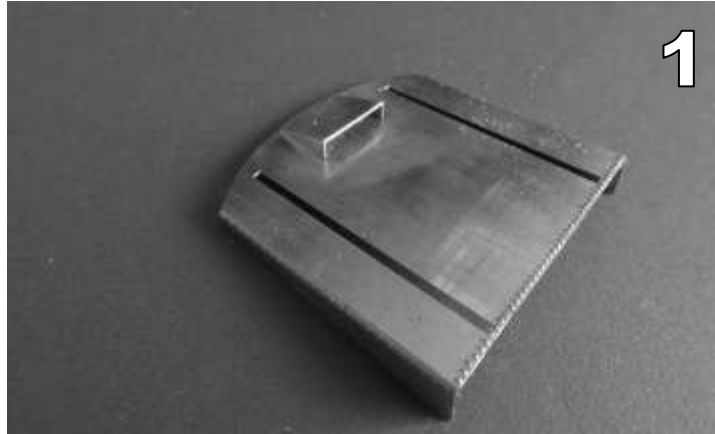
V Strapping DW45

ITEMS REQUIRED TO COMPLETE, 2 x sets of 3'1" 3 hole 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](http://www.modelrailwaywagons.co.uk)

## Instructions

Body Refer to diagram 1

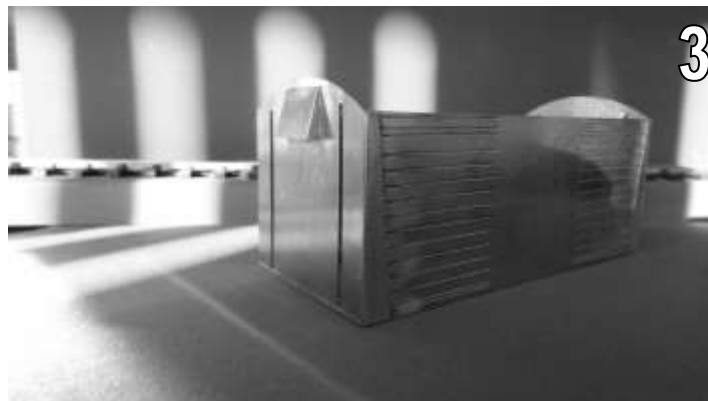
1. Take van ends (1) and push out rivet detail along the bottom edge. Then remove from etch and fold corner strapping see photo 1. Fold up vents (2) and solder to top of the ends using the centre line measuring 17.5 mm from inside edge of slots, as per photo (1).



2. Fold up body sides to a □ shape. See photo (2)



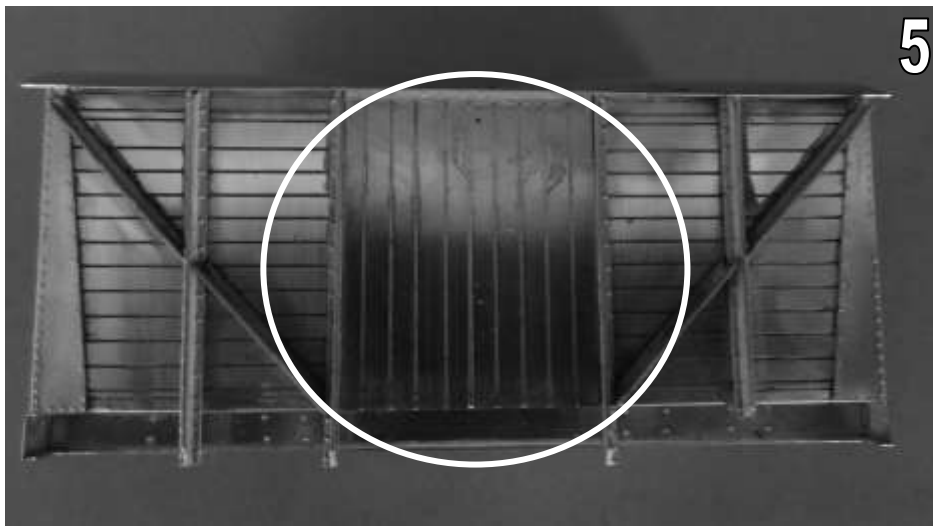
3. Now solder ends onto preformed sides (3), as per photo (3).





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

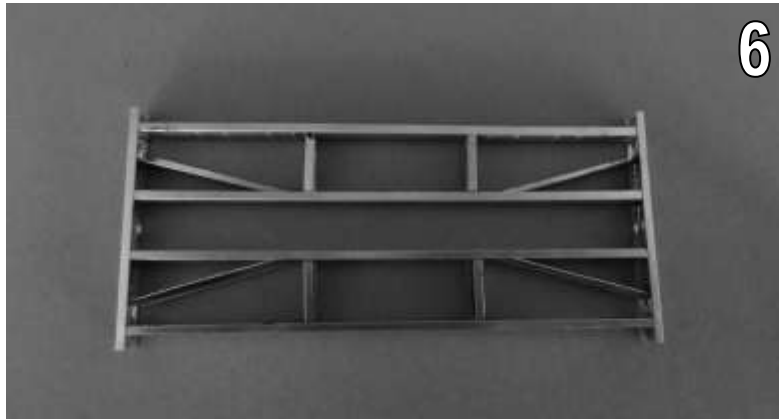



5. Solder door overlays (4) onto the van sides see circled area in photo (5). By mixing and matching doors subtle variations can be created as per the prototype ie. Ply doors onto ply sided but on the planked van you can have planked doors or if rivet detail is removed you can re-solder to top of door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



## Chassis 4 shoe brake (Refer to 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. If building the 4 shoe braked version take four diagonal chassis bars (5) and Fold into  shape. See photo 6



7. Take the two headstocks (8) and sole-bar (6) and solder together. The sole-bars should be 44.5 mm apart. See photo 6 and make sure all is square.
8. Offer up axle box castings and mark inside of sole-bars, then solder the four cross bars (9) as photo 6. Then solder inner sole-bars (7) to these and to headstocks, Making sure all is square, solder the four diagonal  shaped bars between headstock and inner solebars. (9)
9. Now attach chassis to underside of body, see photo 7

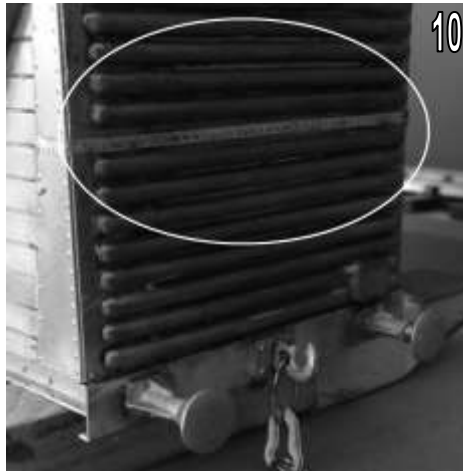


10. Now bend roof (Not shown on Etch plan) to profile and fit. See photo 8 & 9. Tack solder first and when all is square complete the soldering. *It would be best to find the use of roll bars to achieve the best results.*



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 stanchion long (**DW35**) These are best glued on. Note: You will have to shorten two of these to accommodate the brake handles. Then glue the door handles (**DW39**). The vertical stanchions long (**DW35**) next to the door will need one side removing and slots for door hinges will have to be fashioned. The diagonal short stanchions (**DW41**) will have to be filed top and bottom to fit, see photo 11

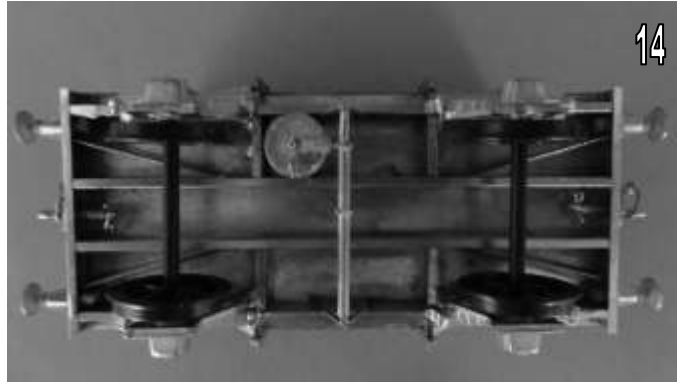
14. File the V strapping (**DW45**) to shape and fit to the door as per photo 11a. This was only recently discovered after further research revealed it on many planked vans.



15. Fit buffers (**DW26**) and headstock detail, hook plate (**DW16**) , vac pipes (**DW33**). See photo 12 & 13



15. This should complete the body, now assemble the vac cylinder (**DW29a**) and fit axle boxes (**DW1**) complete with wheel sets to sol-bars make sure all is square and true, see photo 14



- 16. Fit V hangers and brake lever parts (13 & 14) to sides of sole-bars as per diagram 1
- 17. Fit brake cross shaft (**DW30**), and 10ft brake set (**DW31**, see photo 15)

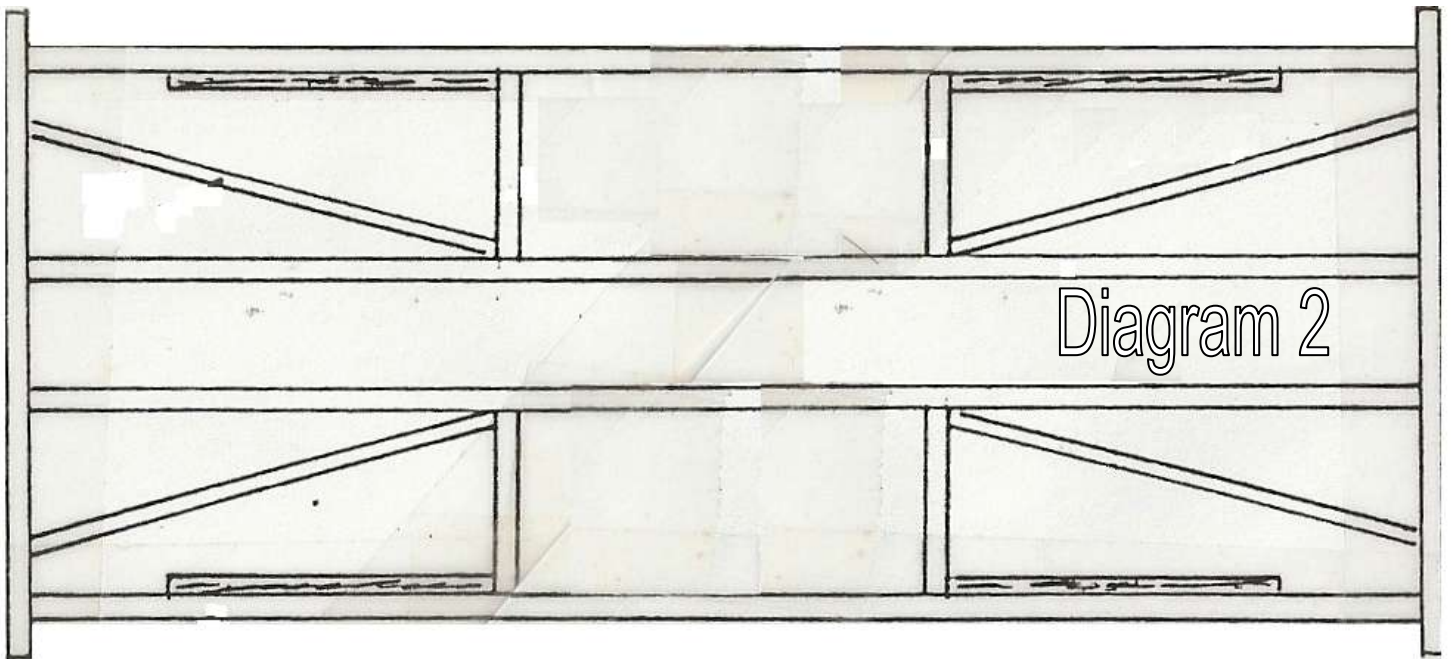
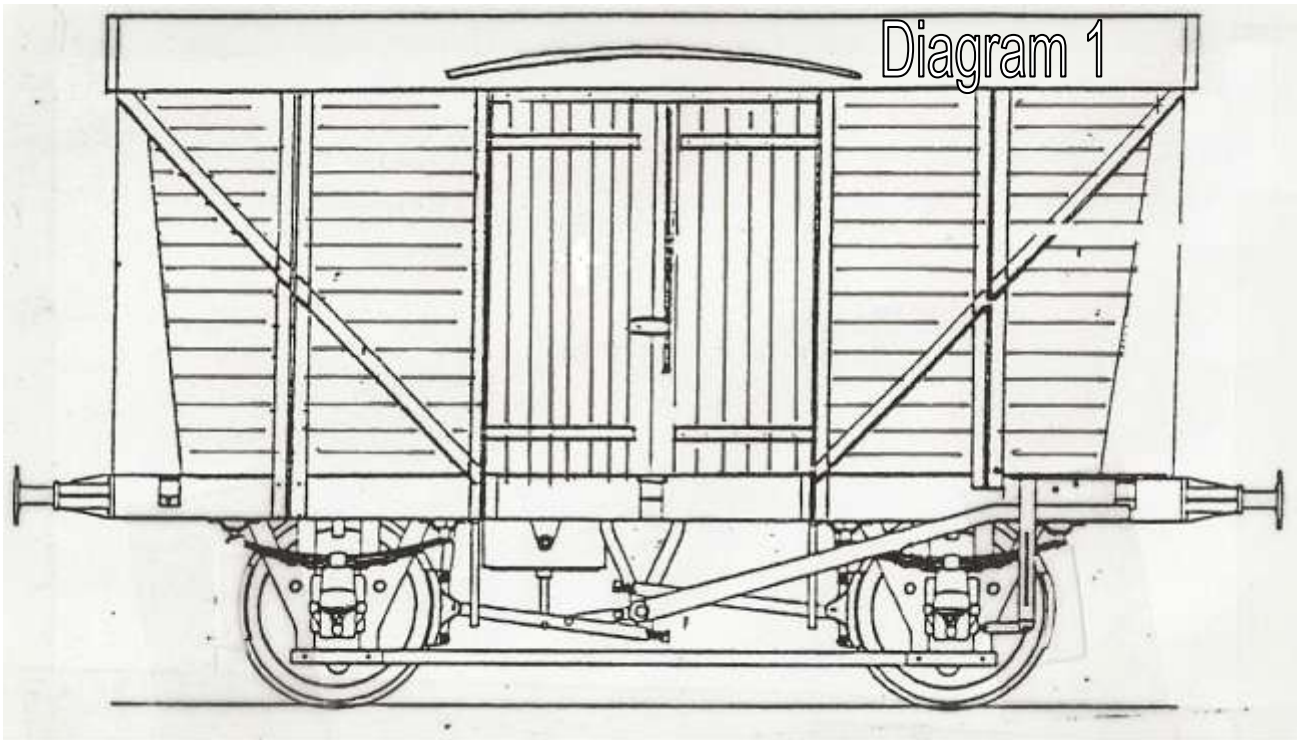


18. Finally fit axle box ties no (15). From etch

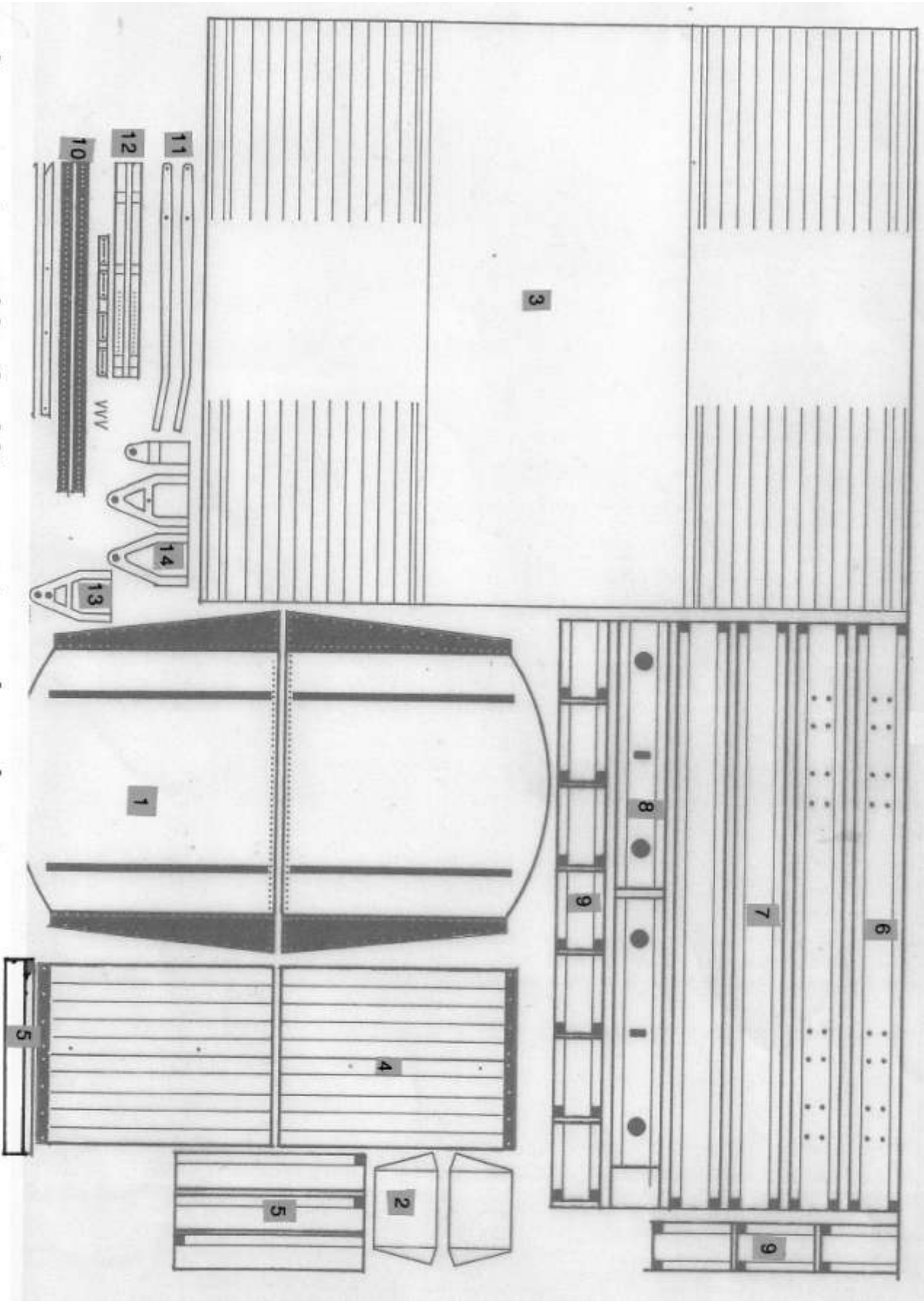


19. Now you have a completed model that only requires wheel, transfers and painting to finish.









Items not used in the kit are not numbered