

WW03e Welcome Wagons 8 Shoe Brake Pipe Wagon



History

The pipe wagons were built to four basic diagrams sharing the same basic dimensions. The first 300 pipe wagons were built at Derby works to diagram 460, and to what appears to have been an LMS drawing. Then they were followed by a further 300 wagons to diagram 461 at Faverdale works, these were virtually the same but to a LNER drawing but fitted with automatic vacuum brakes. The next four lots were back to diagram 460 and it remained that way until 1956 when Wolverton works began building a new diagram No.462 which were fitted with vacuum brakes. A further diagram was issued No.463 in 1957, which covered twenty wagons fitted with hydraulic buffers. The pipe wagon has been found to be very useful for conversion to many other uses.

. Running Nos. and lots

Dia. 1/460 13 ton pipe Wagon

Lot 2004 300 built 8740000 -740299 1949 Derby *

Lot 2305 50 built 8740600- 740649 1951 Cambrian

Lot 232950 built 8740650 -7406991952 Swindon

Lot 2458200 built 8740700- 740899 1953 Wolverton

Lot 2545200 built 8740900 -7410991954 Wolverton *four shoe brakes

Dia 1/461 13 Ton Pipe Wagon (as 460 vacuum fitted

Lot 2046100 built 8740300 – 740399 1949 Faverdale

Lot 2047200 built 8740300 – 740599 1949 Faverdale

Dia. 1/462 12 Ton Pipe Wagon lettered Pipefit, (as 461 but with short buffers and reduced capacity).

Lot 2712350 built 8741100- 741449 1955 Wolverton

Lot 284560 built 8741500 -741559 1956 Wolverton

Lot 2846 170 built 8741560- 741729 1956 Wolverton

Lot 307050 built 8484150 -4841991957 Wolverton

Lot 3335200 built 8741750- 7419491961 Wolverton *.

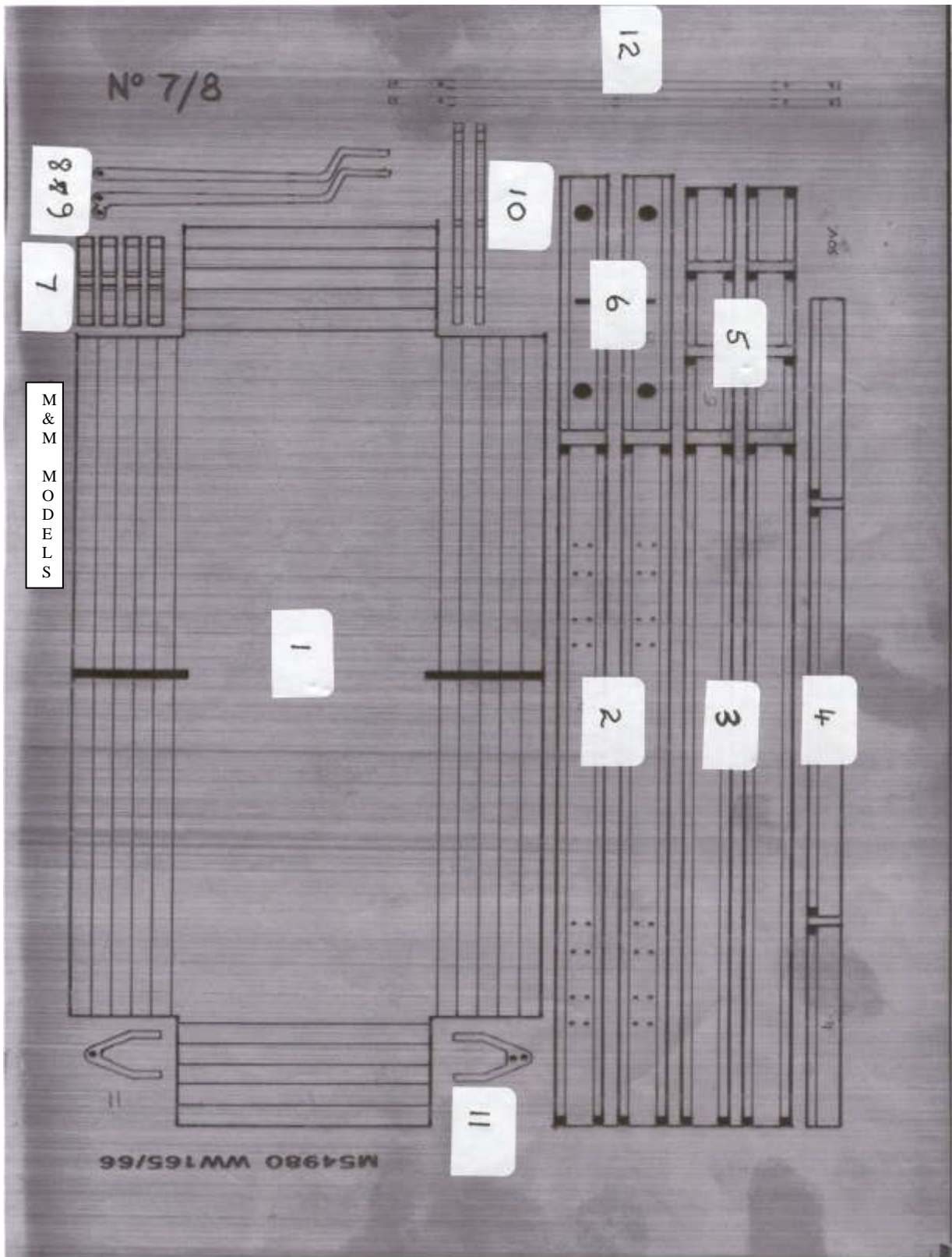
* Fitted with spindle buffers

Dia, 1/463 12 Pipe Wagon lettered Pipefit, (fitted with hydraulic buffers)

Lot 316720 built 8741730 -7417491958 Wolverton

Ref. Books:-

British Railway Wagons the First half million By Don Rowan ISBN 07529 03780	British Railways Goods Wagons in colour By Robert Hendrix ISBN 1 85780 094X
British Railway Wagons, opens and hoppers By G Gamble ISBN 1 900298 06 6	Lots of pictures on Paul Bartlett's website. http://paulbartlett.zenfolio.com/brpipe

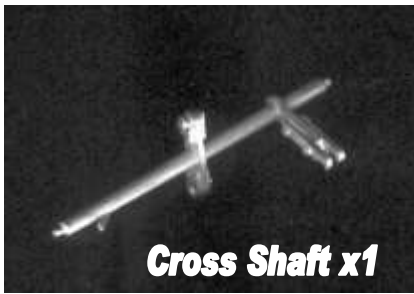


White Metal Parts list

- 4 x Axle box (light plate type) DW55
- 2 x Vac pipes DW33
- 1 x Vac cyl. DW29
- 8 x Brake shoe DW9
- 2 x Brake piece (H) DW11
- 8 x Door damper DW59
- 8 x Body end Stanchion DW57

- 4 x Oleo buffers DW25
- 2 x Detail set DW16
- 1 x X shaft DW54
- 4 x Brake Yoke DW10
- 2 x Body post DW58
- 4 x Body strap set DW56

WW03e (8 Shoe) Pipe Wagon Castings Sheet



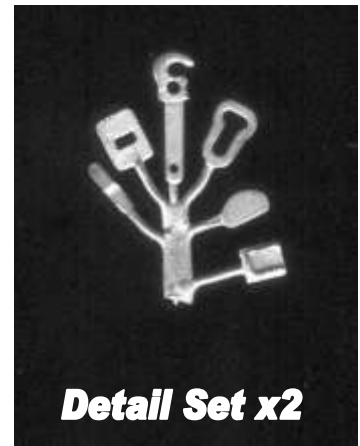
Cross Shaft x1

DW54



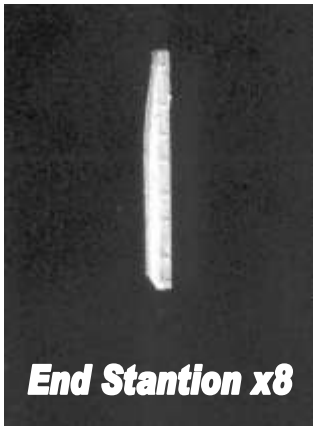
Brake Shoe x8

DW09



Detail Set x2

DW16



End Stantion x8

DW57



Brake Rig x4

DW10



Brake Link x2

DW11



Axle Box x4

DW55



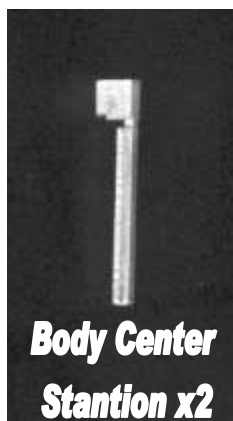
Oleo Buffer x4

DW25



Vac Cylinder x1

DW29



**Body Center
Stantion x2**

DW 58



Body Strap Set x4

DW56



Vac Pipe x2

DW33



Door Damper x8

DW 59

Items Required to Complete This Kit

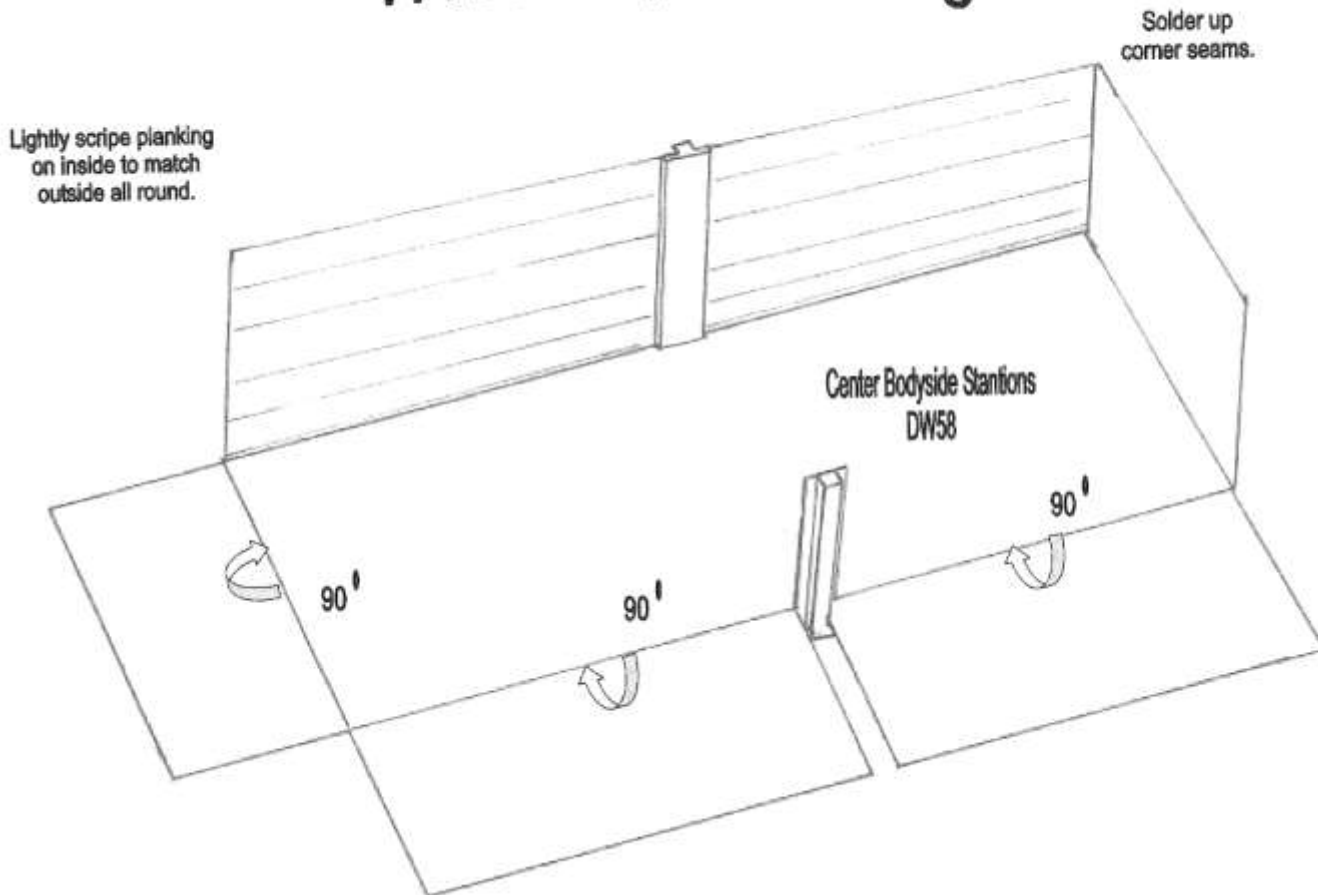
3'1" wheel sets c/w bearings, 3 hole disc Slaters (ref 7122). Alternatively try our Welcome Turned Steel Insulated Wheels c/w ball bearings. Sprung buffers and transfers can be purchased on our website www.modelrailwaywagons.co.uk

Building notes.

1. Cut the body from etch, clean off tabs, if you wish to mark out the inside planking do it at this stage by lightly scribing lines that match the outside lines on the etch. See drawing No 1
2. Check to make sure that the centre body casting fits into the slot, adjust the slot with a file if it does not.
3. Bend wagon body ends up, and then bend one of the wagon sides. Fit the body casting (DW58) then bend the other side, when done repeat with other side of wagon body.
4. Solder up corners and the casting (DW58) in the body centre.
5. Take buffer beams, sole-bars, inner sole-bars and cross members, fold them to a u shape. Also take the diagonal chassis members and fold to L shape.
6. Solder the sole-bars to the buffer beams so that they are 46mm apart. See drawing. No 2
7. Now solder the outer chassis frame to the wagon body underside, it should fit between the cast body centre posts and align with the wagon ends. Check all is square
8. Now fit the rest of the chassis members as per drawing.No 2
9. Next take the eight etched door bangers, bend to shape and add to the sole-bars see photos for position.
10. Now add buffers and buffer beam detail castings (DW16) to buffer beam. Refer to drawing No 3
11. Next take axle boxes, fit your bearings into holes and then take one axle and a pair of axle-boxes and fit to sole-bar aligning with the bolt detail on the sole-bar. Repeat with other axle making sure that all is square.
12. Add axle-box tie strips between axle-boxes. See drawing No 5
13. Fit V hanger brackets to rear of sole bars at wagon centre, then fit X shaft and vac. Cylinder. See drawing No 4
14. Now make up etched pin down brackets, fit to sole-bars (see photos for position), and fit brake levers (note that they are different).
15. BRAKES. Referring to drawing No 4 fit the two brake H pieces (DW11) under the axle down the centre line of the wagon.
16. Add the brake shoes(DW9) two per wheel (note take a piece of scrap etch and solder across from the outer to inner sole-bars to mount the outer brake shoes on).

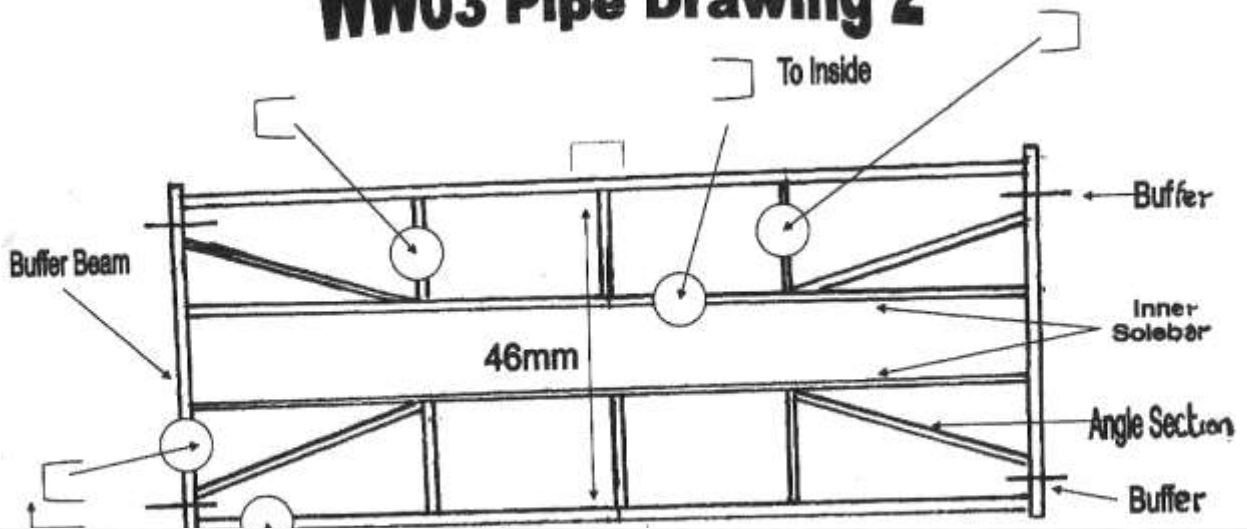
17. Then fit the four brake X link castings (DW10) which go between the brake shoes and the brake H assembly. Also add a length of wire (not supplied) from the X shaft to the brake H pieces.
18. Finally fit the body castings, There are four body strap sets (DW56) to go on each door and four T stanchions (DW57) on each end, with a lamp bracket from the detail sprue (DW16). There are also four door dampers to fit each side (DW59) two per door. See drawings No's 3 & 5. These are all best put on with super glue.

WW03 Pipe Drawing 1

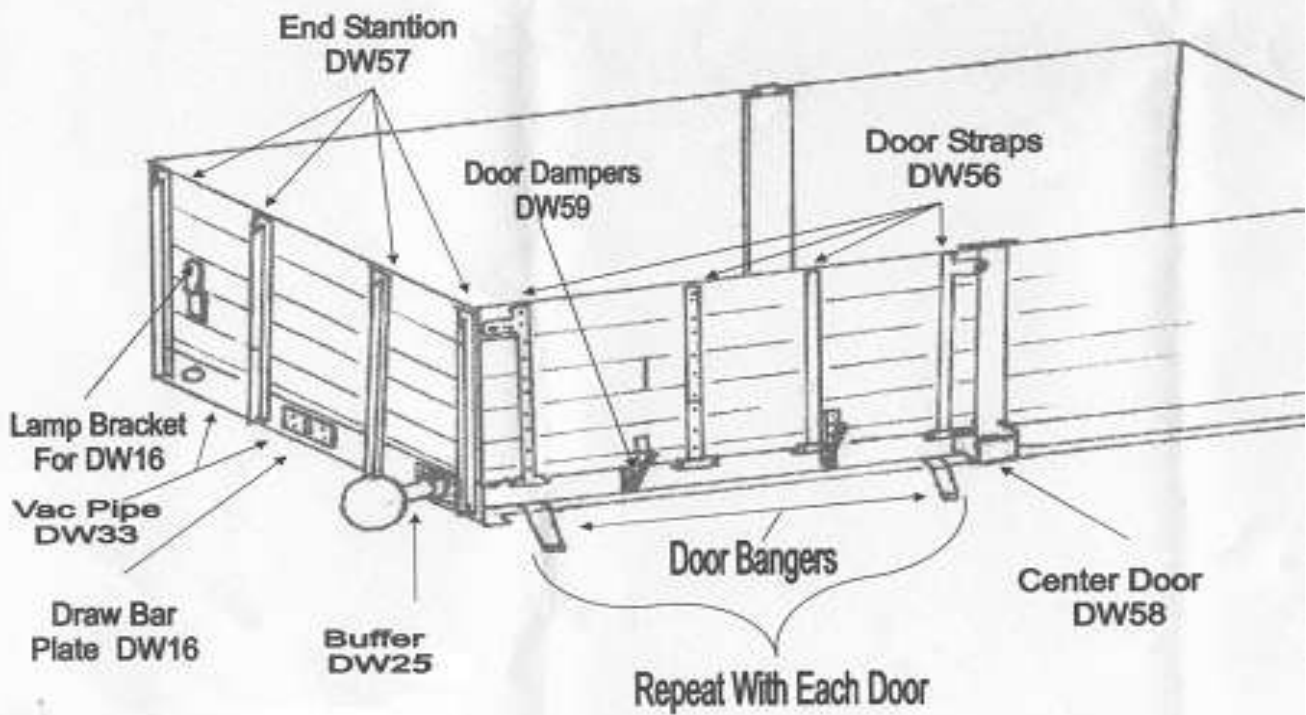


We now pack a Poppy's wood tech laser insert in this kit .

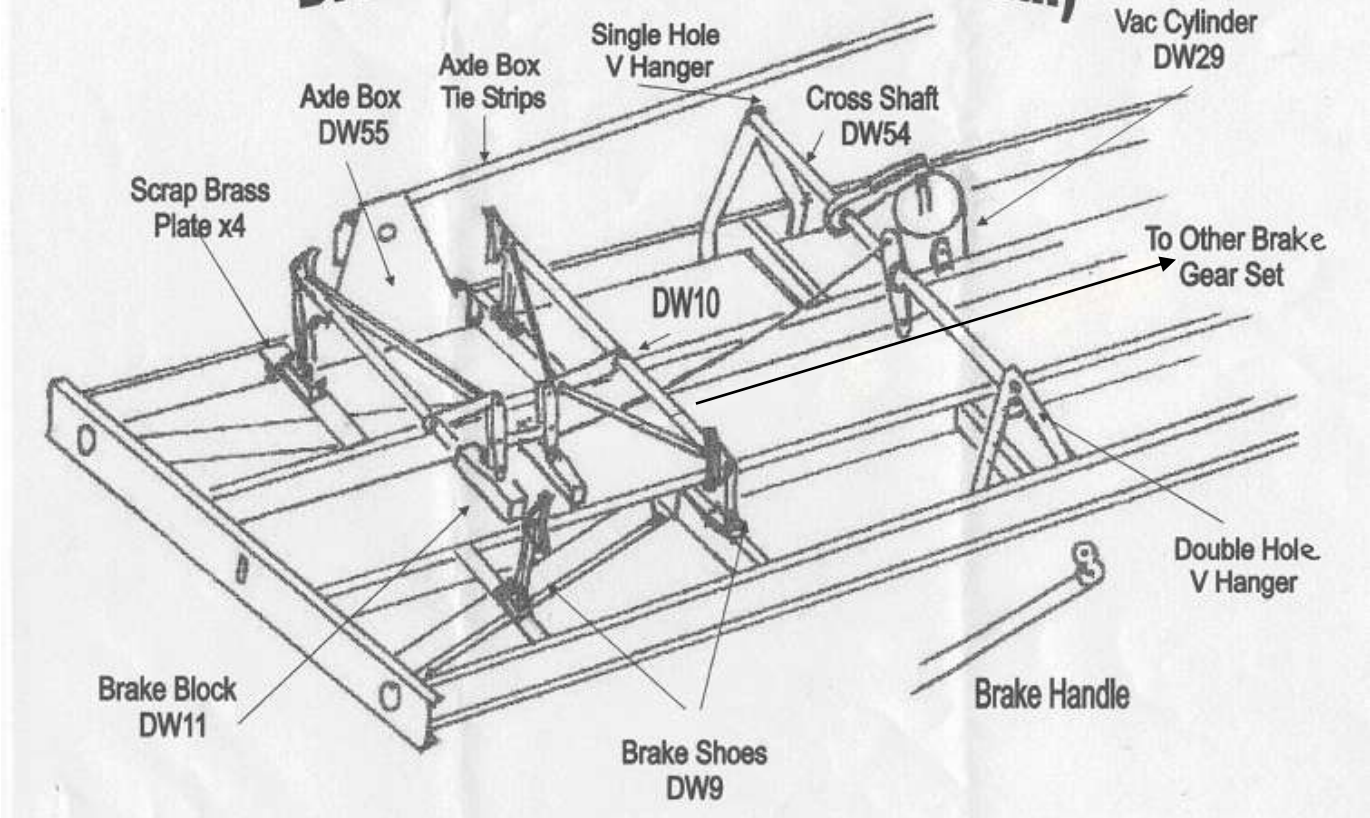
WW03 Pipe Drawing 2



WW03 Pipe Drawing 3 Casting Locations



WW03 Pipe Wagon Drawing 4 (Under Frame Detail)



WW03 Pipe Drawing 5

