The 2mm SCALE ASSOCIATION PRESFLO DIAGRAM 1/272.

PRODUCT CODE 2-568 2mm; ft scale.

ladder is to be released from the etch and how the upper ends of the

Parts included in the kit: - cast resin hopper, nickel silver etch, approx. 25 mm of 0.7mm diameter wire for mounting the vacuum cylinders, approx 25mm of 0.90mm diameter wire for the discharge pipe, approx 50mm of 0.45mm diameter wire for the vacuum pipe, top hat bearings (ref. 2-041), vacuum cylinders (ref. 2-347), instructions if requested. Good prototype photographs can be found on the web at www.gallery 6801.fotopic.net and also in the books 'Working Wagons' volumes 1, 2 and 3 by Santona publications.

Note that the kit can be built with either the short brake levers (as originally constructed) or with the longer brake levers which were used on some of the special traffic conversions.

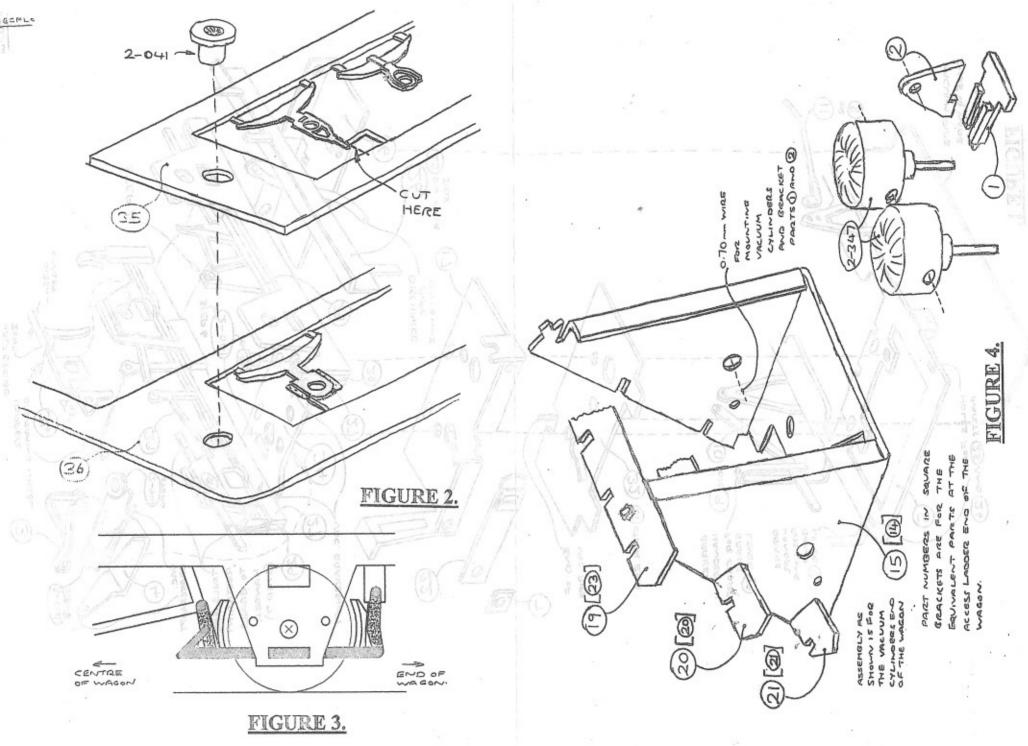
The following table indicates the recommended sequence of construction and the parts required. All small holes (e.g. for handrails, ladder rungs) will require opening up by means of pricking them

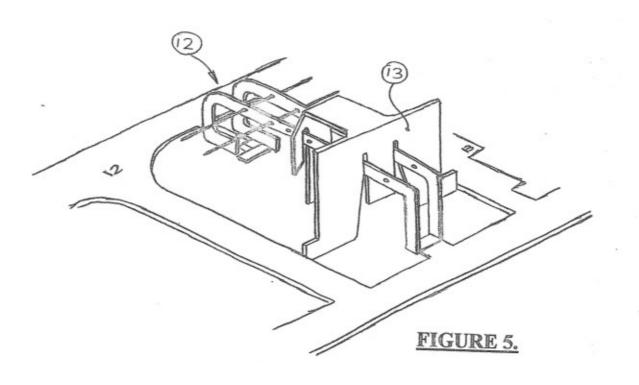
| Step | Part no's | Q'ty Req'd | should sit on its supports and the horizontal hopper end supports Description Should rest on top of the horizontal end ribs of the horizontal hopper end supports |
|------|-----------------------------------|-------------------------------------|---|
| 1 | 35 36 | 1 1 | ROLLER BEARING AXLEBOXES AND SPRINGS, FIGURE 2. Align the upper layer part 35 over the lower layer part 36 by means of top hat bearings temporarily located through the end holes. Sweat the two layers together. Cut the tabs as shown in figure 2, then fold up and attach the outermost layer. The complete axlebox and spring units can then be released from the etch. |
| 2 | 24 ³⁶¹ | 1 | CHASSIS, FIGURE 1. Fold up solebar and plate irons but leave the brake parts flat. Fit top hat bearings 2-041 for the wheels. |
| 3 | 28 | 1 | BRAKE PACKINGS, FIGURE 1. Fit parts 28 + 27 and 29 +27 |
| | 27 | 2 | behind the chassis solebars as shown. Note that the half-etched side |
| | 29 | 1 | of the small section of plate irons of parts 28 and 29 must face inwards towards the centre of the wagon. Now fold up the brake parts of the chassis part 24 and solder them into place against the |
| | 1,2 | 1 of each | inner face of barts 57. e flush with the edges of parts 14 or 15, For |
| 4 | .14,15 19,23 20 - 21 | 1 of each 1 of each 2 of each | Fold over the tip end of the middle brake shaft supports – 180 graded degree fold and note that the fold line is on the outside of the fold. See figure 1.40 2006 BLAND WEST MADE AND BRADE AND BR |
| 5 | 34 | 4 | CLASP BRAKES, FIGURE 1. Note that both left hand and right hand sets of clasp brakes are required and that a spare of each handing is included on the etch. Form the two offsets as shown using the half etched zones on the back (inside) face. The bends should be about 45 degrees and the offset distance about 0.38mm. Fit them into place (the holes fit around the flanges of the top hat bearings and the outer sections should be soldered to the brake parts of the chassis, see figure 3 for correct alignment). |
| 6 | 16 17 31 8 32 5 5 | 1 of each 2 1 1 of Jach 1 of Jach 1 | FLOOR, PACKING LAYERS AND STEP IRONS, FIGURE 1. Remove part 33 and the adjacent scrap triangle from the centre of part 5. Although figure 1 shows part 5 with the V-hangers and brake hangers folded up into place, this step is best done with part 5 flat and still attached in the fret. Fold up the step irons on parts 16 and 17. Solder two top hat bearings 2-041 into the holes at each end of the chassis part 24; these are to align all the packing layers onto the wagon floor part 5. Now assemble all four layers together (part 24 + part 16/17 + part 31/32 + part 5). |

| - | | | wagon floor part 5. Now assemble all four layers together (part 24 |
|----------|--------------------|---|---|
| 7 | 25,26 22 3,4 | 1 of each 2 | SOLEBARS AND BUFFER BEAMS, FIGURE 1. Fold as shown and attach to the floor/chassis assembly; the projections from the top of the solebars parts 25 and 26 locate through the holes in part |
| | 8,9 or | 1 of each | 5. Fit the buffer beams parts 22, using 0.65mm diameter |
| | 10,11 | 1 of each | |
| | 17 | 1 | Remove the whole assembly from the etch and cut off the unwanted |
| e | 16 | | brake hangers, fold up and attach the chosen ones and restrain them by means of the 'tails' which project from the plate irons (these tails to be bent to suit). Fold down the V-hangers, and complete the brake gear (note that it is double sided independent, that the vacuum brake shaft is held in place by the bracket part 4 which butts up against the flanges of the top hat bearings used in aligning the floor |
| | | | packing layers (see step 6), and that the middle section of the |
| | | | vacuum brake shaft (i.e. the section between the 'arms' of part 4) |
| - 2 | 34 | 4 | shorld pe cut out); FIGURE 1. Note that both left hand and right |
| 8 | 14,15 | 1 of each | HOPPER END SUPPORT FRAMES, FIGURE 4. Fold parts 14 |
| ef. | 19,23 | 1 of each | and 15 as shown; attach the horizontal supports (parts 19, 20, 21, |
| - | 20,21 | 2 of each | 23) with the half etched detail on the underside, and ensure that the |
| | 1,2 | 1 of each | edges of these parts are flush with the edges of parts 14 or 15. For the vacuum cylinder end, assemble the cylinder support bracket |
| | | | parts 1 and 2, then thread this and the two vacuum cylinders 2-347 |
| | 29 | 1 | in their correct place onto 0.7mm diameter wire which spans |
| | 27 | 2 | between the end support verticals. An Mote that the half-ciched side |
| 9 | Resin | 1 | ASSEMBLY OF CHASSIS WITH HOPPER. Bend the 0,45mm |
| | cast | | nickel silver vacuum pipe as shown; it should run along the edge of |
| 3 | hopper | | the floor immediately behind the 'legs' of the resin hopper when the |
| | | | chassis and hopper are assembled (note that the pipe can |
| | | | alternatively be formed in sections, with the 'joints' between |
| | | | sections being hidden behind the hopper 'legs'). The base of the hopper end support frames parts 14 and 15 should 'plug' into the |
| | 36 | | equivalent shaped recess in the top surface of the wagon floor and |
| 1 | 35 | | should be level with this floor. At the same time the resin hopper |
| | 110'S | Reg'd | should sit on its supports and the horizontal hopper end supports |
| step | Part | Q*ty | parts 19,20,21,23 should rest on top of the horizontal end ribs of the cast hopper. Gluing is recommended for this stage as the resin |
| | | on a very fi | hopper will not tolerate heat from a soldering iron. Ensure that the |
| | | r handrails, | hopper bottom outlet (i.e. the lowest part of the whole hopper) faces |
| | | which were indicates t | away from the vacuum cylinder end of the chassis and towards the |
| ince com | ***** **** ** | | access ladder end the special traffic conversions. |
| 10 ph | 12 | gallery 680 ublications, n be built w | ACCESS LADDER, FIGURE 5. Note that the etch contains 2 |
| n the w | 13 | gallery 084 | ladders but only one is needed. Prick out or drill the rung holes and |
| acuum (| ylinders (| ref 2-347), | fold up as shown in figure 5. Part 13 is a jig to hold the ladder |
| pe, app | rox 50mm | of 0.45mm | stringers in correct alignment whilst the rungs are being soldered in |
| | | he vacuum | place (0.25mm soft copper wire is recommended for the rungs). |
| arra mel | uded in th | e kit: - cast | After trimming all the rungs back to the stringers, remove the ladder from the etch (important: study figure 6 carefully to see how the |
| | | | ladder is to be released from the etch and how the upper ends of the |
| | | PROD | |
| | | PROD | stringers fold in order for them to be attached to the top of the |
| | | PRI PROD | |

| that two ribs on the top of the resin h The 'tongue' which projects from the to be trapped between the next pair of | e top of the ladder assembly is of resin ribs on the hopper roof gue. The notch in the end plank |
|--|--|
| to be trapped between the next pair of | of resin ribs on the hopper roof gue. The notch in the end plank |
| | gue. The notch in the end plank |
| and the seturally server even this tone | |
| | t hand stringer of the ladder |
| of the catwalk is to fit around the left | |
| Holes are provided in the chassis floo and the ladder should be vertical. | or for the bottom of the ladder |
| FINISHING DETAILS. These are a good photographs. The hopper operary spoked varieties are provided) only of wagon, and the inner end of its wire at the top of the discharge pipe. Drill a (a 'dimple' is provided for this) for the bebent from the 0.9mm wire provided backplates and may be useful with the nameboards which were fitted on the times. Part 33 folds as shown in figure on the outside of the fold), and this is bend wire handrails each side of the correct profile. The two notches in the ends of the handrails which fit into (dimples are cast into the hopper root. | ating wheel (both solid and occurs on one side of the shaft should be soldered onto hole in the base of the hopper the discharge pipe which should ed. Parts 7 are optional buffer arned buffers. Parts 18 are the e sides of the hoppers at various re 6 (note that the fold line is a template to assist you to top of the access ladder to the ne top edge of part 33 are for to the roof of the hopper |
| handrails). | |

End of instructions.





End of instructions.

