

The 2mm SCALE ASSOCIATION

PRESTWIN DIAGRAM 1/277.

PRODUCT CODE 2-569 2mm: ft scale.

Parts included in the kit: - cast resin hoppers, nickel silver etch, approx. 50 mm of 0.7mm diameter wire for the discharge pipes, top hat bearings (code 2-041), approx 50mm of 0.33mm diameter wire for the overflow pipes, vacuum cylinder (code 2-346), instructions if requested. Good prototype photographs can be found on the web at www.gallery6801.fotopic.net

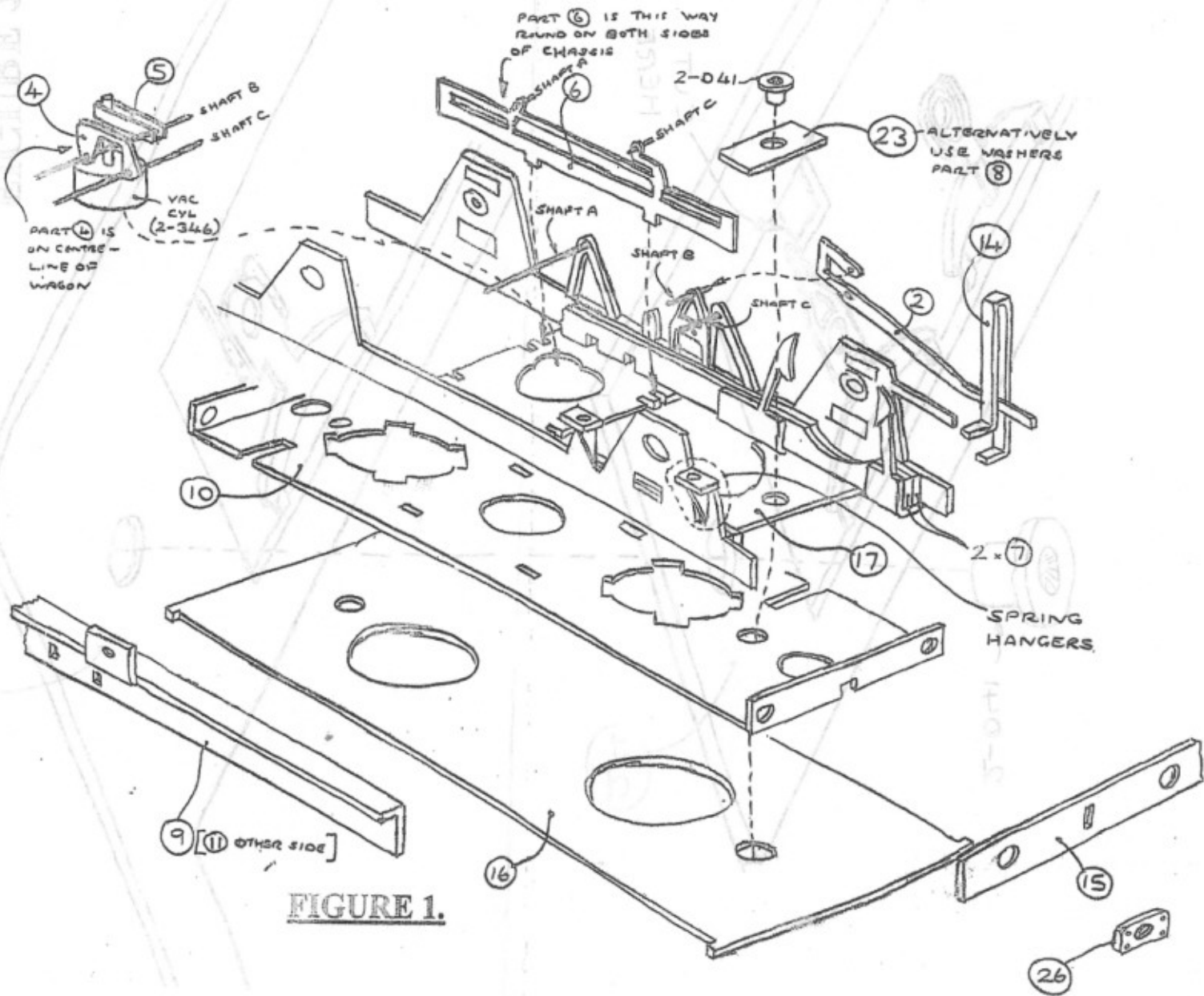
Special thanks are due to David Monk-Steel who provided the drawings that made this project possible.

The following table indicates the recommended sequence of construction and the parts required. Most small holes (e.g. for handrails) will require opening up by means of pricking them through with a pin on a very firm surface or alternatively by drilling them out.

Step	Part no's	Quantity	Description
1	24 25	1 1	ROLLER BEARING AXLEBOXES AND SPRINGS, FIGURE 2. Align the upper layer part 24 over the lower layer part 25 by means of top hat bearings 2-041 temporarily located through the end holes. Sweat the two layers together, then cut the tabs (see figure 2), fold up and attach the outermost layer. The complete axlebox and spring units can then be released from the etch. Do not fit them to the chassis yet.
2	17	1	CHASSIS, FIGURE 1. Fold up solebar/plate irons/'V' hangers but leave the brake parts flat. Form the spring hangers on each side of the plate irons as shown in figure 1 (nearest plate iron). Fit top hat bearings 2-041 for the wheels.
3	7 6	2 + 2 2	BRAKE PACKINGS, FIGURE 1. Fit two parts 7 centrally behind each of the chassis solebars as shown. Now fold up the brake parts of the chassis and solder them into place against the inner face of parts 7. Fit the brake pull rodding parts 6.
4	17 10 16 23 or 8	1 1 1 2	FLOOR AND PACKING LAYERS, FIGURE 1. Fold the buffer beams at the ends of part 10. Using two top hat bearings 2-041 to align the layers, assemble parts 17, 10 and 16. A packing washer part 23 or part 8 should be placed under the flange of the top hat bearing when doing this.
5	9,11 15	1 of each 2	SOLEBARS AND BUFFER BEAMS, FIGURE 1. Fold the solebars parts 9 and 11 as shown and attach to the floor/chassis assembly. Fit the buffer beams parts 15 (use 0.65mm diameter dressmaker's pins through the buffer holes for alignment). The axlebox and spring units from step 1 can now be fitted over the top hat wheel bearings.
6	4 and 5 2 14	1 of each 2 2	BRAKE GEAR. Complete the brake gear, taking note on the drawing that there are three cross-shafts (denoted shafts A, B and C) across the full width of the chassis. A single vacuum cylinder 2-346 is necessary for this.
7	1 3	1 1	CATWALK, FIGURE 3. Do <u>not</u> remove the inner frames (which contained the brake levers and vacuum cylinder brake fittings) from parts 1 and 3. Bend down the twelve triangular supports on part 3 (these are for locating the catwalk into the slotted bosses on the tops of the cast hoppers). Using 0.65mm diameter dressmaking pins through the holes in the corners of the inner frames for alignment, assemble parts 1 and 3, and then cut out the inner frames. Now bend up the 'door stops' (see figure 3).

8	-	-	<p>ASSEMBLE CHASSIS, CAST HOPPERS AND CATWALK. This is to be done with glue. Note that the side of the catwalk with the large recess (for the main access ladder), the side of the cast hoppers with the pressure gauges, and the side of the chassis to which the vacuum cylinder is nearest (i.e. the 'far' side of the chassis as viewed in figure 1) must all be on the same side of the wagon.</p>
9	12 13	1 1	<p>ACCESS LADDERS, FIGURE 3. Bend back the 'tails' of these (see figure 3 for definition of 'tails'). Note that the stringers of the ladders are 'twisted' between the rungs immediately above and below the tails in order to achieve this. These tails locate into holes in the solebars. The top end of the straight ladder part 13 should be bent over at 90 degrees and fits into the recess on the underside of the catwalk. The solid part at the tops of ladder part 12 fits directly into the recesses of the catwalk without any folding.</p>
10	19 20 21 22	2 2 2 2	<p>DISCHARGE VALVES, FIGURE 4. These should be assembled on the 0.7mm diameter N/silver wire supplied, and note that the foldline of parts 21 is on the outside of the fold. The manifold flanges which are cast onto the tops of the hoppers should be drilled to suit (preferably at a low angle – see prototype photographs).</p>
11	18	2	<p>FINISHING DETAILS. Fit the hopper lids parts 18. Numerous handrails, grab handles, overflow pipes and other pipework can be identified on prototype photographs which can be modelled if required. The spring hangers each side of the plate irons can be completed by means of short cuttings of wire for the hangers and small slices of PVC wire insulation to model the spring dampers. Parts 26 are optional buffer backplates and may be useful with turned buffers.</p>

End of instructions.



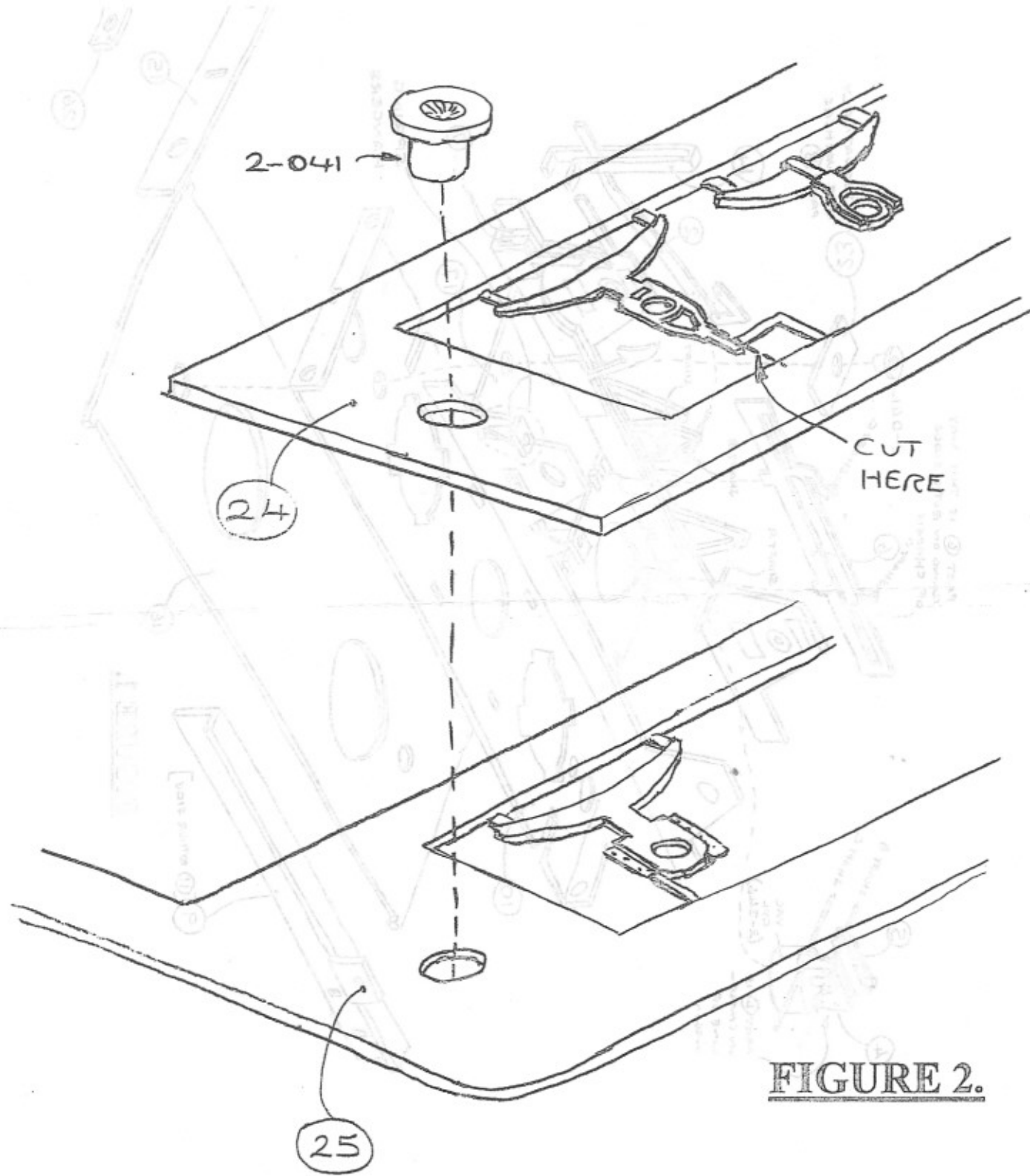


FIGURE 2.

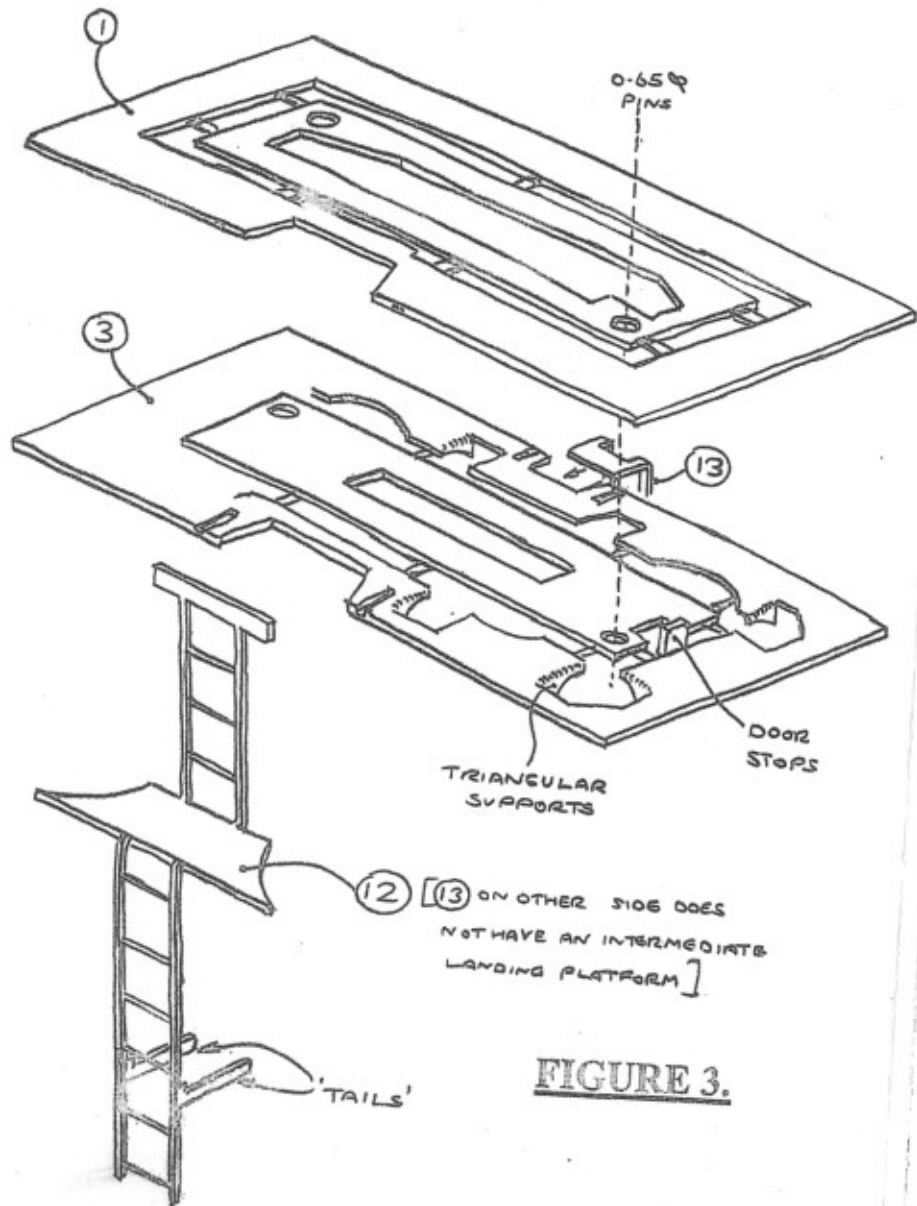


FIGURE 3.

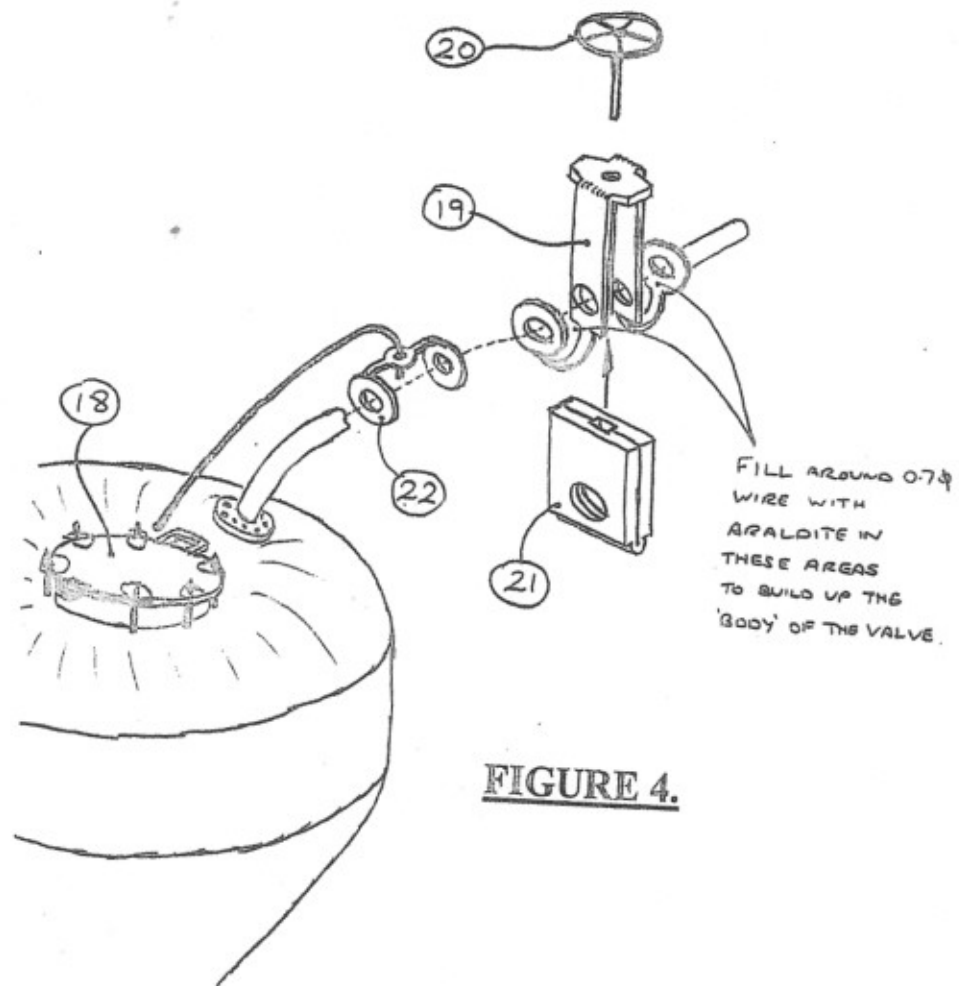


FIGURE 4.