

C KITS "BRUSH FOUR WINDOW RANGE" KIT No 18 BALCONY TOP CAR.

Background.

From the open-top tramcar (Bee Kit No17) Brush provided top covers for improvement to them and also the complete new building. Some of the balcony cars retained the drop window frames in the lower saloons and these were to be found at Airdrie and Coatbridge (later Glasgow) 1085-1087, Birmingham and the Black Country (fitted with wing windows in the balconies over the stairwell) and Erith (later London Transport).

this Kit.

The following will instruct as to the assembly of this kit to produce a model of the former Erith balcony tramcars which became London Transport Nos D, 8D, 10D and 14D. These cars served South East London until 1935 working on Route 98. Further details can be gleaned from the book "The Tramways of Woolwich & South East London" by Southeastern.

Assembly Instructions.

Read these instructions carefully. Check each part against the list, returning any defective or damaged part for free replacement. Remove any flash, clean out locating holes and modify any part to suit the prototype. If working trolley poles (not supplied) are to be used, determine method of setting and wiring circuit and make trolley hooks from wire. Read these instructions again but whilst doing so have a dry run with the parts to familiarise yourself. When satisfied, paint as many of the parts as you can, both inside and out it being careful NOT to paint any edges/surfaces where glue (UHU, clear Mastik or a modern epoxy resin) is to be applied. Ensure each part, except the upper deck saloon and balcony front side panels, gets a second coat before assembly, the upper deck panels are best left to after assembly. Affix lining, set name and numbers (only L.T. is supplied in this kit) and paint over them with clear varnish.

Now cut the glazing strip to suit the insides of the saloon sides/ends, being careful not to foul the bonding surfaces for the parts to be glued together. Finally check all parts for missed glazing or pre-assembly painting and assemble the model carefully step by step following the instructions. Allow the glue used on each operation to set before proceeding to the next operation if the parts are common to both.

This kit can be soldered together but this is only recommended for those who are VERY experienced in using a soldering iron. The method of assembly would, of course be different to that detailed above. The "purist" modeller may wish to solder handrails to the stairs and around the balcony panels in place of the imitation 'wire-mesh'.

Glue Saloon Sides (3b) to Bulkheads (4) and hold assembly by an elastic band (not too tight), placing it upside down on the underneath of upper floor (17) set. The corner window pillars should be filed to produce a scallop effect. (see sketch).

Locate Truck sides (2a) to Saloon Sides. After removing fender section (see drawing), insert Platforms (6) to fit over Truck side ledges, under Bulkheads and against Saloon Sides. Glue Controllers (7) Resistance Box (32) and Dash Fronts (5) to Platforms. Cut wire to length and bend as shown in sketch to produce Brake Handles and fit to Platforms (small holes provided).

Turn car upside down and fit mechanism by clipping it into slots of parts 6. Position so that axles line up with axleboxes and drill 1/16" hole in part 6 through chassis fixing hole. Secure with self tapping screw. Glue Life Trays (13) to truck sides and Life Guards (11) and Steps (10) to Platforms. Track Test.

Glue Saloon Sides (20b) to Bulkheads (21). Fit Balcony Fronts (22&23) together and locate in slots in Bulkheads. Place Catwalk (30) on Roof (25) which is glued to Saloon Sides so that the end canopies line up with Balcony Fronts. Glue Upper Cantrails (24a) to underside of Roof canopy ends and locate Indicator Boxes (29). Glue Trolley Pole (31) into hole in Catwalk.

i. Remove sections A and B from Upper Floor (17) for stairwell (see drawing) and fit to lower deck saloon sides. Glue Stairs (19) to Upper Floor and Platforms. Cut wire to length and bend as shown in sketch to form handrails to be located in the holes in the Platforms and Steps. Cut seat strip to provide 12 seats each 9mm long and 2 seats each 17mm long (with backs removed and shaped to fit longitudinally on balconies). The Stairwell Partitions should be cut from card or plasticard (not supplied) and fitted on upper floor together with seats in the positions shown but before the glue has set check that the top cover assembly fits over the seats and partitions. The Driver (38) and Conductor (39) can be placed on the car as you wish. Position the top cover assembly on the Upper Floor (glue into position if required otherwise seats and partitions should hold it in place so that passengers could later be added or removed).

Check that no unpainted surfaces exists, if so, paint as appropriate. The car is now ready for service and we hope you have enjoyed constructing this model. Models of cars to partner this car can be made from Bec Kits Nos, 2,6,12 and 17.

Ivory.

For simplicity in colour matching paints the Humbrol reference numbers are shown.

London Transport (1933-1935).

- Red 19 Lower deck waist and rocker panels. Outside of dash. Stair sides. Upper deck waist panels. Outside of bulkheads(not doors) Indicator boxes.
 - Grey R105 Inside of dash. Trucksides. Roof. Catwalk. Life trays and guards. Platforms, sides and steps.
 - Cream 2 Window frames and pillars. Cantrails. Stair backs.
 - Black 21 Recess areas of trucksides and underside. 'Wire-mesh'. Extension to Part 3 . Resistance box. Collision fenders. Controllers. Handrails. Trolley pole. Sides and back of side number boxes.
 - Brown 9 Doors. Seats. Saloon and balcony interiors.
 - White 22 Lamp lenses. Ceilings. Indicator panels.
- Gold car numbers - Dashes.
 Yellow lining - Outside of dash.

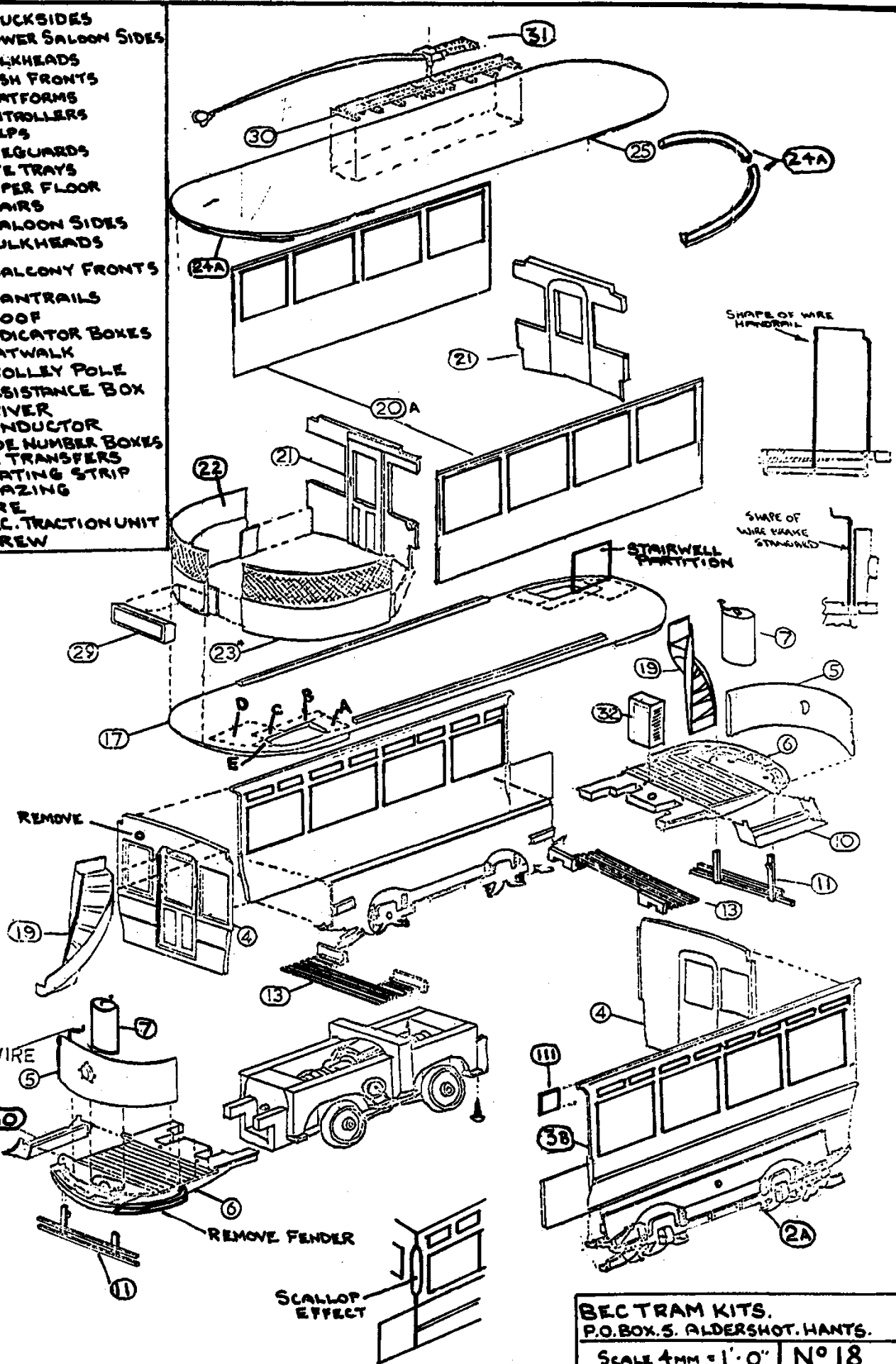
Acknowledgements.

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Seating Plan.



- 1 A TRUCKSIDES
- 2 B LOWER SALOON SIDES
- 4 BULKHEADS
- 5 DASH FRONTS
- 6 PLATFORMS
- 7 CONTROLLERS
- 10 STEPS
- 11 LIFE GUARDS
- 12 LIFE TRAYS
- 17 UPPER FLOOR
- 19 STAIRS
- 20 A SALOON SIDES
- 21 BULKHEADS
- 22 } BALCONY FRONTS
- 23 } BALCONY FRONTS
- 24 A CONTRAILS
- 25 ROOF
- 29 INDICATOR BOXES
- 30 CATWALK
- 31 TROLLEY POLE
- 32 RESISTANCE BOX
- 33 DRIVER
- 34 CONDUCTOR
- 35 SIDE NUMBER BOXES
- 36 L.T. TRANSFERS
- 37 LATING STRIP
- 38 GLAZING
- 39 WIRE
- 40 2V D.C. TRACTION UNIT
- 41 SCREW



BEC TRAM KITS.
P.O. BOX. 5. ALDERSHOT. HANTS.
SCALE 4MM = 1'.0" N° 18