



Chowbent 4mm

**Midland Railway
London Midland and Scottish Railway
4 ton meat van**

supplied, whichever version you build there will be some parts you do not require, each alternative is given in the instructions, most parts are numbered on the fret.

- 1) Floor. Bend side steps double and squeeze flat. Bend at right angles to the solebars. Bend down the solebars, fixed W-irons and pivoted axle guard brackets. Bend down the two off centre V hangers (Versions A & B) or the central one (Version C). Do not bend the buffer beams yet, fit brass bearing cups in the axle holes, ensure the bearing surfaces are clear of any glue or solder. Leave part 2 (pivoted axle guards) until after parts 1- 26.

Select the required two of the three below and fix to the solebars.

- 3) Solebar detail. Version A, V-hanger side.
- 4) Solebar detail. Versions B & C, V-hanger side.
- 5) Solebar detail. Other side all versions.

Select the required pair and fit to buffer beam.

- 6) Buffer beam detail. Version A.
- 7) Buffer beam detail. Versions B & C.
- 8) Buffer bases Version A only. Fix to buffer beam.

Fix the buffer bodies in place. See instructions enclosed in pack.

- 9) Angle plates. Bend length ways at right angles and fit between the solebars and headstocks with the two close-spaced rivets at the bottom of the solebar.

Note parts 10-21 are fitted at a later stage on page 3

- 22) Horse hooks. Versions B & C, fit through the holes at the left end of the solebar.
- 23) Hooks for fish truck" couplings, Versions B & through piped C fit through the headstocks to the right of the coupling slot.

NOTE-PARTS 24-31 INCLUSIVE ARE FOR VERSIONS A & B ONLY.

- 24) Brake block detail, left hand, fit onto brake hangers parts 26 and 27 while still on the fret.
- 25) Brake block detail, right hand, to fix locate with a pin through hole.
- 26) Brake hangers, fixed axle guard end. Bend and fit to the floor inside W-irons.
- 2) Pivoted axle guards. Bend W-irons. For Versions A & B bend brake linkage hanger also. Pivot to the floor, with wire in 4mm scale and by 8BA nuts and bolts in 7mm scale.
- 27) Brake hangers pivoted end. Bend and fit inside pivoted W-irons.
- 28) Brake linkage hanger, fixed end(not numbered-located alongside ends). Bend at rectangular end tab. Fit downwards through the floor at the outer end of the narrow strip between W-irons.
- 29) Brake block connecting bars, outer. Bend end of centre prong to form hook fitted to lower hole in linkage hangers and fit end prongs through holes in brake blocks.

Thread wire between V-hangers Versions A & B and thread the following parts on it.

- 30) Brake pull rods. Bend over end prongs and fit to upper holes on the linkage hangers.
- 31) Brake cylinder lever. Bend over small end square.
Fit brake cylinder Versions A & B into marked circle under floor, fit the square end of the lever centrally on lower face of the brake cylinder.
- 32) Hand brake lever Version B ONLY fit to the wire protruding beyond the V-hanger so that the lever points to the right hand end of the vehicle.
- 33) Outer V-hanger Version C ONLY, fit to outside of the solebar on the same side as the one bent down from the floor and in line with it, passing through the upper step. Thread a piece of wire between the V-hangers, leave approx 2mm protruding from the outer one.
- 34) Brake push-rods Version C ONLY, bend tabs at locating points and fix under the floor, the push-rod to the left is furthest from the floor. The centre hole fits on the back end of the wire which is fixed to the V-hangers. Add the brake block detail (one each of parts 24 & 25).

- 35 & 36. Safety loop for push-rod Version C ONLY. 35 is longer and for the lower push rod, bend tabs near locations and fit to slots in the floor.
- 37) Hand brake lever Version C ONLY. fit to outer end of the wire at the V-hangers leading to the right hand end of the vehicle. 38. Hand brake lever stirrup, VERSIONS B & C. bend to shape, pass around end of brake lever and fix to the solebar through the locating hole.
- 39) Lower steps, Version A ONLY, bend along etched line and fit parts 40 and 41.
- 41) Step bracket detail, these fit to the upright brackets with the rivets on top. Fit completed steps to solebars, the middle brackets passing through slots in the upper steps.
- 42) Lower steps Versions B & C, bend at fold lines and add parts 43 and 41.
- 43) Second layer, with step bracket detail fit completed steps to the solebar.

If building Version A it is best to paint the underframe at this stage. Versions B & C can be painted later.

Now assemble the sides and ends.

- 10) Inner sides, curve the bottom part of the side between finger and thumb to form the tumblehome, bend the bottom flap to a right angle and the side flaps to a right angle but the top flap to match the curvature of the roof. Fold the door hinges to form right angles.
- 11) Outer sides, form tumblehome to match the inner side, locate over the door hinges and fix in place.
- 12) Inner ends.
- 13) Outer ends, use the holes for grab handles to ensure correct alignment of ends.
- 14) Grab rails, fit in pre-etched holes in ends.
- 16) Door handles, T. VERSION B AND LATER C. EARLY ONES USE PART 15. fit in pre-etched holes.
- 17) Handle for right hand doors VERSION B AND C LATER ONES ONLY. Bend just past the blob and fit in the pre-etched holes in the door.
- 18) Door hinge plates, fit these across door joints at upper waist moulding.
- 19) Corner lamp irons, bend as shown in drawing and fit as shown in photograph.
- 20) End lamp irons, bend and fit as shown.
- 21) Side blocks, purpose unknown! VERSIONS B & C. Fit as shown in photograph.

If building VERSION A it is best to paint the body now. 15 Door handles, ring pattern, VERSION A, fit in pre-etched holes in doors secure from rear with glue.

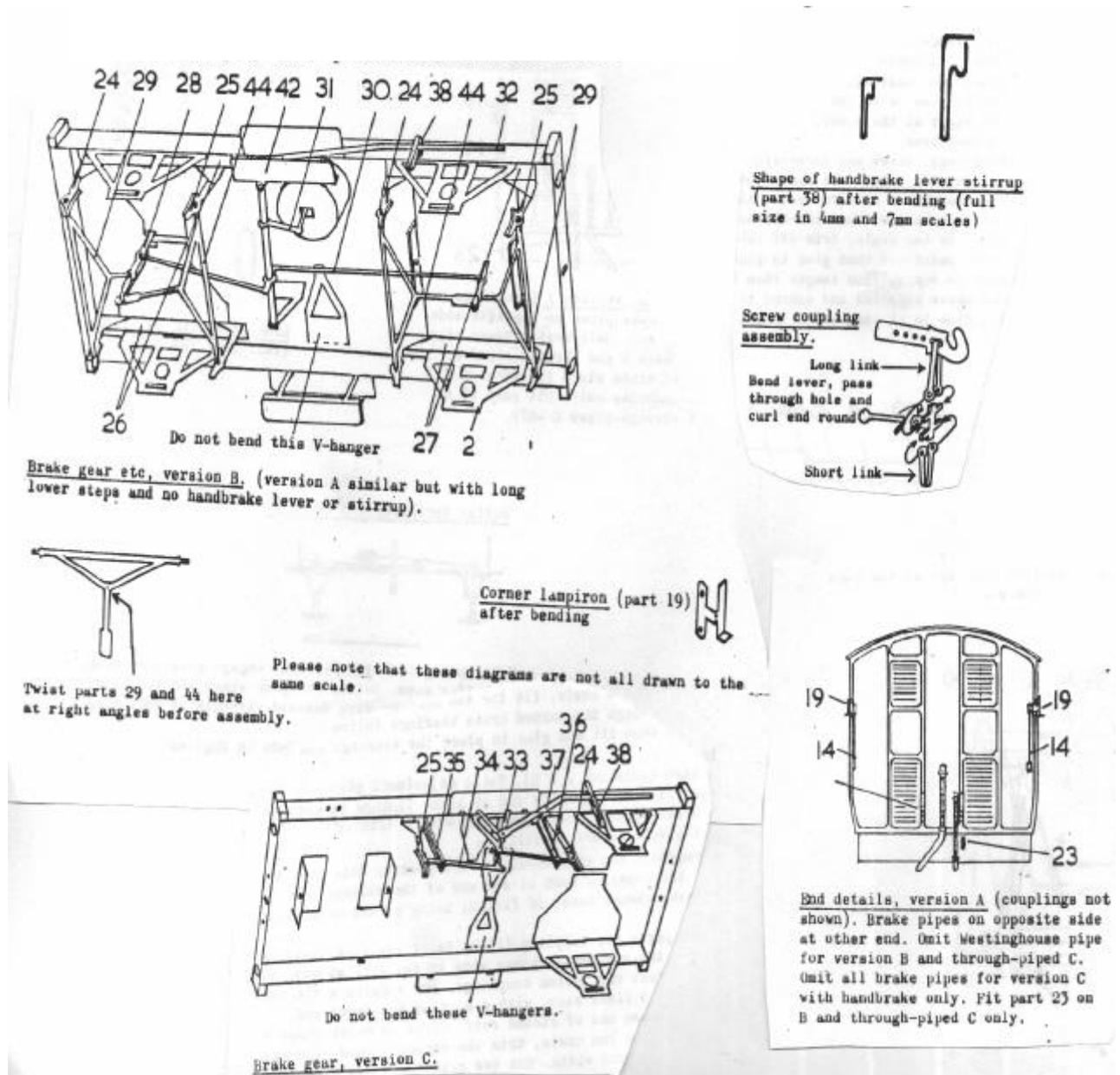
Dry run a test fit of the body to the underframe, there are tabs on the body and slots in the underframe, if all is well, fix in place.

Fit the cast spring/axle box and brake hoses. In 4mm scale, glue the springs/axleboxes to the W-irons. At the fixed axle guard end they should also be glued behind the solebars. At the pivoted end, make sure the W-irons can move freely, if necessary ease the solebars away from the castings. Fit the wheels in place, painted first if required. In 7mm scale, fit the two spring/axle box castings to one side only. Insert wheel bearings and wheels (painted if required) then fit and glue castings to the other side.

- 44) Brake block connecting bars, VERSIONS A & B, twist adjustment plate at the end of the central prong at right angles. Fit this to the lower end of the brake linkage hangers and fit end prongs through the holes in the brake blocks.

When fitting the brake hose castings refer to photographs to get them correct for your version, note that the Westinghouse hose is to the right of the coupling hook if fitted.

Couplings, screw or three link depending on version chosen. Note that Version C had 5 link couplings when built. If fitting side chains 5 links each are needed.



Roof. A pre-formed roof is provided, this should be glued in place. Or if preferred the roof can be soldered in place before you test fit the body to underframe, then you will glue together when satisfied.

Pressfix transfers are provided with the model.

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