

Decent Models

Instructions for Fox Pattern 8'0" bogie in 7mm scale

- 1) Study the fret before cutting any tags. Cut out piece 'A', comprising one side, one end, and one cross-plate.
- 2) Impress the 'rivet' detail from behind, then bend as follows:-
 - i) Bend over the cross-plate, the tag on top of the bogie side, and the fold-over pieces along the top of the sides, these can all be bent at the same time, in bending bars. Bend in the piece at the bottom of the end, i.e. the bit with the two wee slots.
 - ii) Now form the inner fold only, at the outer end of the bogie end. Now bend the end at 90° to the bogie side.
 - iii) Bend upwards the two rectangular tags at the outer end of the cross-plate.
 - iv) Now bend in the fold at the bottom of the end opposite the end stretcher.

YOU NOW HAVE HALF A BOGIE!

- 3) Repeat all the above for part 'B', but note that the cross-plate has two extra pieces which bend down, along each edge. N.B. Bend the 2 tags on 'B', at the outer end of the cross-plate, downwards.
- 4) Slot 'A' & 'B' together so that the tags at the outer ends of the cross-plates pass through the slots between the cross-plates and the bogie sides, and are then wrapped round the cross-plates. Filing the tags to a taper, in both section and profile, makes them go through the slots easier. The tags at the outer end of the bogie sides wrap round the tags at the ends of the end stretchers, and the ends of the latter tags are then folded inside them. The design allows slight flexing at these opposite corners.
- 5) Detach part 'C'. Gently bend the centre plate to the same curvature as the ends, then bend the sides and ends down, and the bottom of the sides out, and solder the joints. This forms the bolster - when both bolsters are made, solder under the coach floor, using a 4BA bolt to centre them precisely. Solder the bolsters at 90° to each other, so that one bogie will rock side to side, and the other end to end. Now fit wheel bearings.
- 6) Detach part 'F', bend the brake shoes downwards and fit through the slots in the end stretcher. The brake hangers are very fine, and benefit from being reinforced with a little solder after bending.
- 7) Detach part 'G', bend as for 'F' and fit the shoes through the slots in the central cross-plate. Solder 'F' and 'G' in place, ensuring that the shoes do not rub on the wheels. Repeat 6) and 7) for the other axle. On the bogie which is to rock from side to side, the centre parts of 'G' need to be filed down to the level of the cross-plate, so that the bolster will rest on the cross-plate.
- 8) Detach parts 'H'. Place their ends into the slots in the brake shoes and lightly solder in place, so that the tails of the outer rods pass under the axle, and the inner ones over - this will permit you to change wheels.
- 9) The footboards are in two parts. Remove the top layer, part 'E', from the fret, and fix it to

part 'D' with the raised ridge on top and to the rear. Note that it should be attached to the back of 'D', i.e. the side with the two etched fold lines on the support brackets. It is easiest to do this before detaching 'D' from the fret.

Note that both long and short footboards are provided, parts 'D1' & 'E1' being for the latter.

10) Detach the footboard from the fret, and clean off the tags, taking great care not to distort the supports. Impress the bolt heads on the supports, from behind, bend up the supports at approx. 45° to the step and then bend the top section to the vertical. Attach the footboard to the side with the tops of the supports at the top of the side, and the cut-outs in line with the axle bearings. If using solder, attach one support only first, and check that it is correctly positioned before fixing the others. Repeat 9) and 10) for the other step.

11) Fit the axlebox/spring castings over the ends of the axle bearings. Carefully remove the wheels, mask the bearing surfaces, and spray the bogie with Holts acrylic black car enamel.

12) To fit the bogies to the underframe, fit a 16mm. long 4BA bolt through the holes in the floor and bolster and fix in place. Ream out the hole in the bogie cross-plate until it fits freely, but not too loosely, on the bolt. Solder a 4BA nut to a small square of scrap brass from the fret, and run it tight onto the bolt. This will hold the bogie in place, but still allow it to rock, and also enable you to easily remove the bogie if necessary.

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