

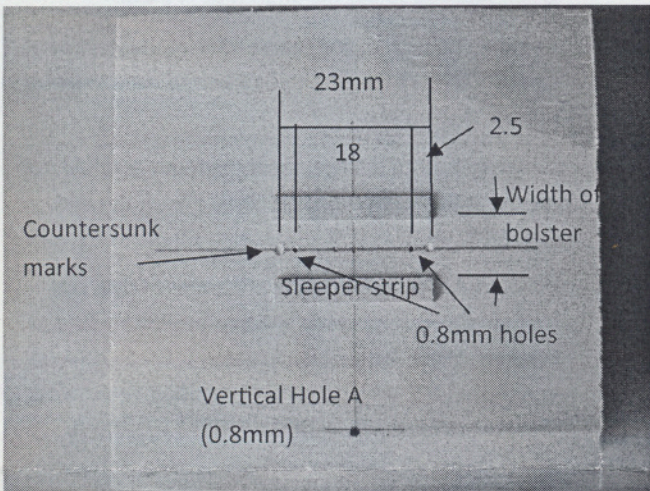
Palatine Models

9 foot twin torsion bar bogie kit

The 9 foot twin torsion bar bogie kit has been designed to give a smooth and resilient ride for coaches weighing from 200—300 grams. Specifically designed for LMS 9ft rivetted and welded bogies it may be suitable for other prototypes.

Etched in .015" nickel silver the bogie utilises a top bolster attached to side frames with 0.8mm (1/32") rivets. Intended as a strong base for cosmetic sides in plastic or whitmetal it incorporates footboard brackets and tiebars either flat or twisted through 90 degrees.

A simple jig will aid assembly and this is simply made from a 3 inch square piece of 6mm plywood.

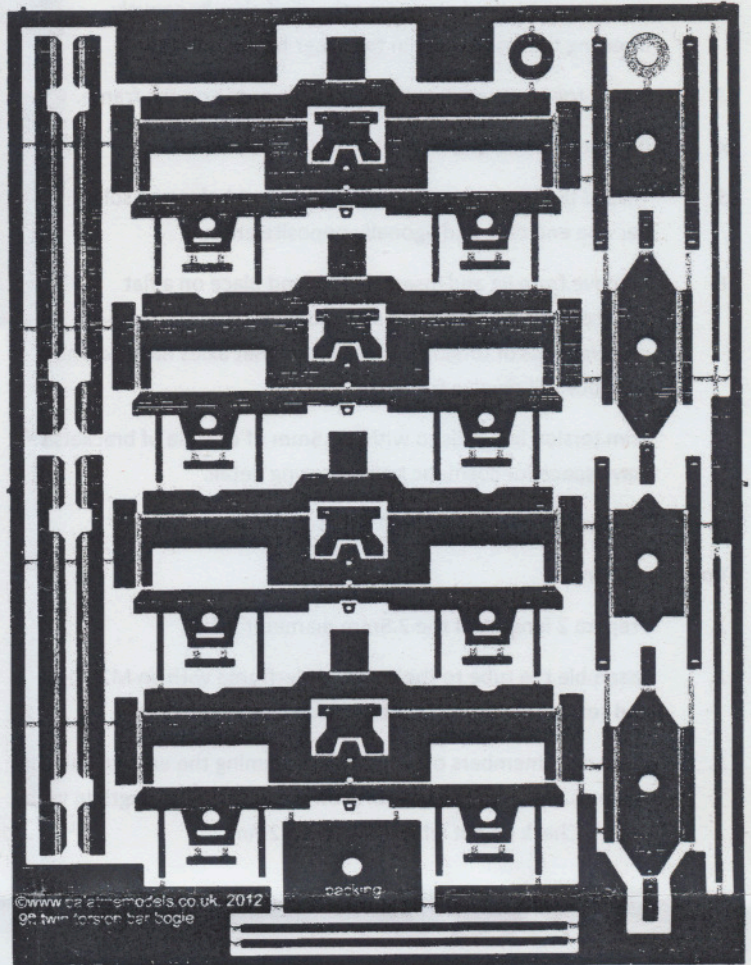
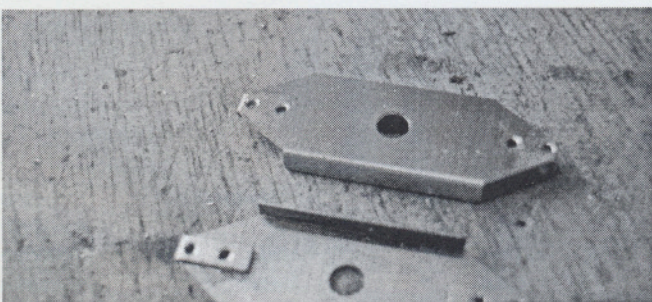


The wooden strips are P4 sleeper strip glued down to locate the bolster during assembly. Vertical holes are drilled at 18mm centres to keep the rivets vertical during soldering. Dimples the width of the rivet head are made at 23mm centres to support rivets during assembly.

The design assumes wheels with the standard 26mm over pin-point axles. 0.15mm packing washers are supplied to be placed behind the bearing flanges when axle lengths are shorter than 26mm.

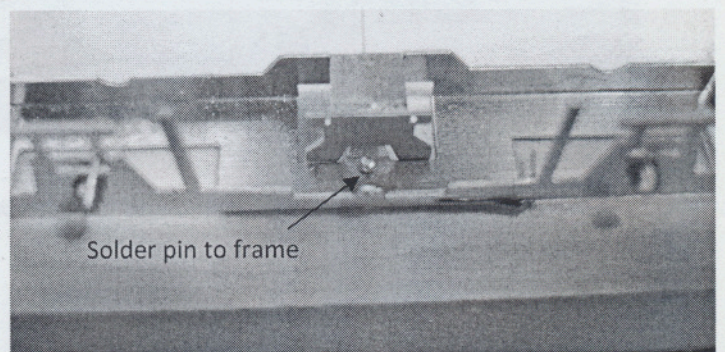
Bolster

1. Remove the bolsters from the fret and fold the 'ears' back on themselves making a 180 bend. Solder them ensuring they are flat. Fold the sides to 90 degrees.
2. Clear the etched holes with a 0.85mm drill and lightly countersink the top and bottom.
3. Press out the dimples in the axle box keeps to form bolt heads. Clear torsion bar holes with a 0.55mm drill.



Sides

1. Solder bearing cups on the inside of the frame using shims if required. Fold up the sides and solder the stay to the torsion bar drop bracket.
2. Solder rivet to the underside of frame in the inner hole using jig (hole A) to ensure rivet is vertical.
3. Fold over the tag on the frame and ensure that a rivet will fit vertically through the holes.



Assembly (utilising jig)

1. Insert 2 rivets in the end holes through the top of the bolster, invert and place on the jig ensuring the heads locate in