

2580 NEM 362 Coupling Tongue - Instructions

Please read the instructions and familiarise yourself with the parts and options before bending, gluing or soldering them. All folds are 90° with the half etched fold line on the inside of the fold.

The coupling tongue was conceived to complement the MJT Rigid 'H' Frame Bogie (MJT 2544 – 2577) as reflected by these instructions. Modellers may well, however, find other applications and use the tongue in different ways. The coupling tongue consists of a 30mm long x 5mm wide x 1.5mm deep channel with a fabricated NEM 362 coupling box at one end.

Remove the components from the etch with a sharp craft knife and clean all the remaining tabs and sharp edges with a small file. The box is soldered or glued onto the end of the tongue as shown in Figure 1, taking care to keep the inside of the box clean.

The coupling tongue attaches to the rigid bogie as shown in Figure 2. The inner end of the tongue fits through the rectangular hole in the central transom while the outer end locates in the cut out in the end piece. Even if it is not intended to retain the end piece it is worth attaching it temporarily to help with alignment. Where appropriate, the inner end of the tongue should be cut short to avoid fouling the rocker and / or the king pin.

When happy with the length and position of the tongue it should be soldered at 'p' and possibly 'q'. Soldering is recommended; the coupling might be pulling the whole weight of a train.

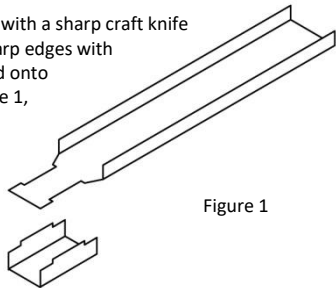


Figure 1

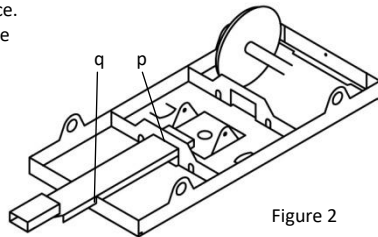
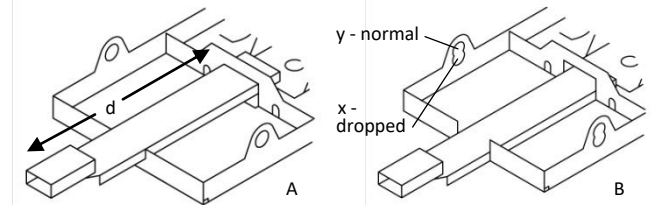
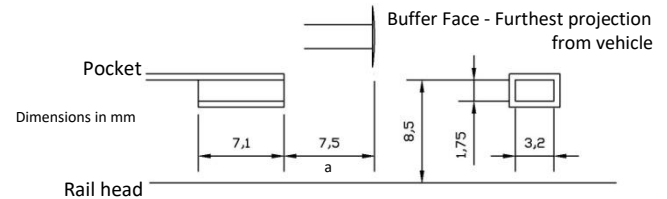


Figure 2

Alignment

The NEM 362 standard specifies the exact position of the coupling box (see – <http://www.doubleogauge.com/standards/couplings.htm>).



When 'a' is 7.5mm, 'd' (the distance between the front of the pocket and the transom) is $L - w/2 + 1.4$ mm where the distance between the buffer and the king pin is L and the bogie wheelbase is w . The tongue itself must be at least 1mm longer than this to pass *through* the transom. Note: 'a' = 7.5mm is intended for close coupling and might need to be reduced to give adequate clearance between vehicles; making the tongue a little longer again. Some RTR manufacturers have adopted their own standards. If the tongue is attached as shown in 'A' the coupling box should be at the correct height for a bogie if using 14mm wheels. Some cosmetic sides require the bogie to be run in a dropped position with the pin point bearings at 'x' rather than 'y'. In this situation (or if using 12mm diameter wheels at 'y') the tongue should be attached as shown in 'B' to maintain the correct height. Of course, if using a 14mm diameter wheel at 'y' (normal position) the tongue is attached as in 'A'. Other heights might be accommodated by attaching the tongue at an angle and bending the box to keep it horizontal.