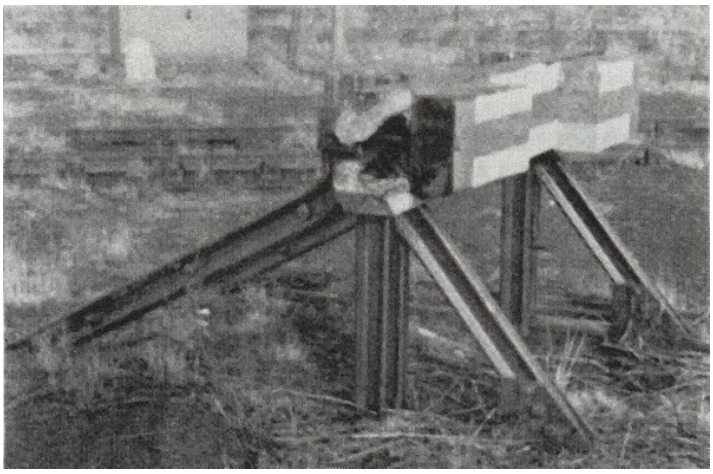
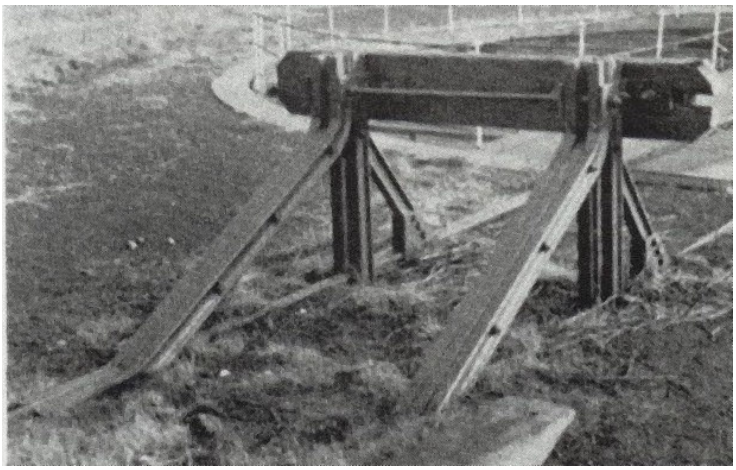
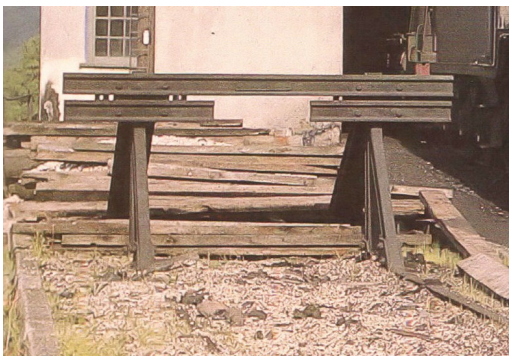
The 2mm Scale Association
1-0741 SR rail-built buffer stop and 1-0742 rail buffer beams





Assembly Instructions

1. Remove the wooden buffer beam components 4a (in 5 places on etch). Do not at this stage separate the two mirror image halves of the etch, or cut out any of the other parts.
2. Fold the etch in half along its centre line, fold 1. As this is a 180-degree fold the tabs are on the inside of the fold. Solder parts 1, 2, and 3 parts together back to back. You may wish to tin the rear of the parts before folding.
3. Cut out the etch from its surround. Make the remaining two folds 2 and 3 as shown in the diagram, top section behind centre, lower in front, and solder the three sections of each side of the stop together back to back. Be particularly careful that the four 5-sided bracket plates are securely soldered. Again you may wish to tin first.
4. Fold back the long thin bracket plates on the outer supports (part 1) through 180 degrees and solder in place on the support. Then fold the protruding part of the plate back through 90 degrees so it will attach to the buffer beam when that is fitted. File off the remaining tags.
5. The two supports can now be cut from the etch. There are a number of tags to be removed, you may find it easier to cut away parts of the surround using snips. After you can put each side in a vice and add more solder along the top of the supports then file smooth, this strengthens the joint and hides the lines between the layers of etch.
6. Assemble the buffer stop sides onto the track.
7. Finally solder the bufferbeam in place, ensuring everything is square. Choose whether you will use the wooden bufferbeam included with 1-0741 or the rail buffer beams 1-0742. The earliest stops had wooden beams, later two solid rails, and from some time in the 1930s the design with a gap in the lower rail was used. For a wooden beam the eight layers of part 4 are laminated; you may prefer to use a plasticard replacement using part 4 as a template. A piece of metal or plastic rod can be used to represent the tiebar behind the wooden bufferbeam. For a rail beam the two layers of 1-0742 are soldered together, solder all beams together before removing any from etch.
8. Unless you used a plasticard buffer beam you have electrically connected the two rails together, so the buffer stop needs to be on a short isolated section of track at the end of a siding. Stagger the gaps by 1-2 mm to avoid a wagon shorting across both at the same time.



Buffer stop with gap in lower rail. Okehampton, 1960.