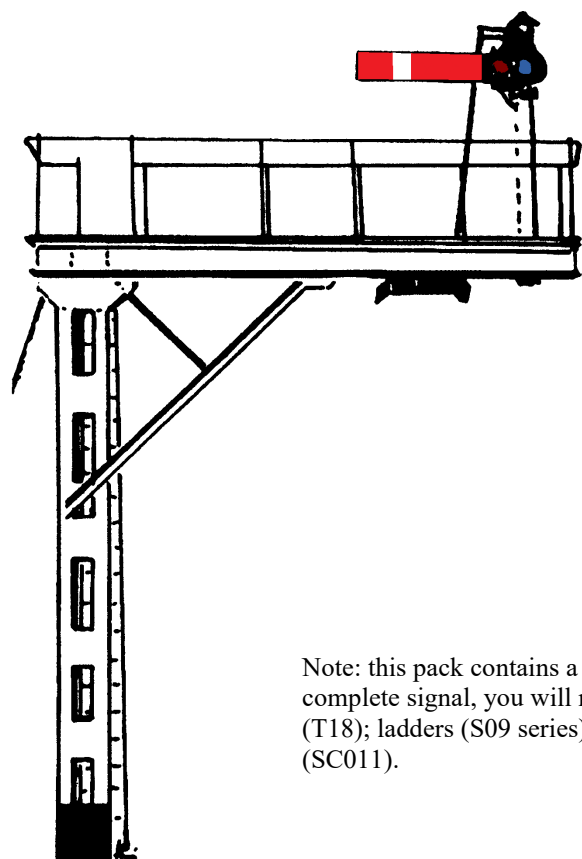
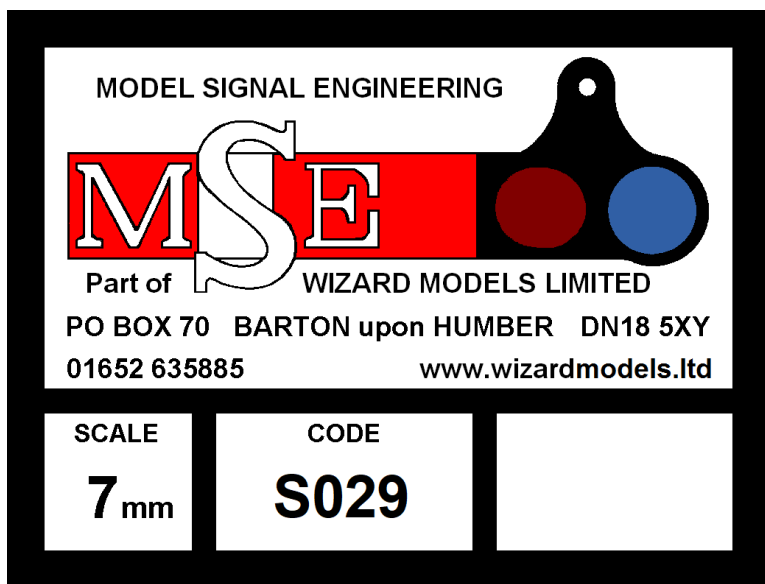




L M S WELDED STEM BRACKET SIGNAL POST Adaptable to the cantilever or equal tee type, for 1 to 4 dolls

Note: this pack contains a base post and bracket only. For a complete signal, you will need: arms (S012 series); dolls (T18); ladders (S09 series); post caps (SC019); and lamps (SC011).

ASSEMBLY INSTRUCTIONS

Tools required

The test kit was built using a 50W soldering iron, 188° solder and liquid flux, together with a range of files, pliers etc., and a pair of tinsnips and small scissors for cutting parts from the fret. Bending bars are not necessary, although they will make folding some parts easier. Unless stated otherwise, all half-etched fold lines go on the inside of the component.

Before starting work, find a selection of photographs of the prototype. This was a relatively common signal type in later LMS and BR days, so you should not have too much difficulty. However, do not confuse it with the superficially similar LNER/BR(E&NE) type, which has a slightly tapered post and wider spaces between the girder bracing plates.

The Post

Fold up (1) and (2) and solder them together as shown in the diagram overleaf. Using a triangular file, file flats on the top and bottom of each bracing plate to provide relief similar to that on the side soldered to the other post half. File carefully, as it is very easy to cut right through the etch. Remember that the top of the post is the end with the longer tag.

The Platform

Fold up and solder the two parts (10) to the front and rear faces of the post top.

Fold up the doll holders (6) and solder them into a cube. You will need to use one as a template to make extra pieces from scrap fret if modelling a 3 or 4-doll signal.

Fold up the platform girders (4). Place the doll holders as required inside the U-shape thus formed, and solder the girders to the post top, with the half-etched holes to the bottom. The position of the girders relative to the post top will depend on the conformation modelled – for a simple L-bracket as shown opposite, the girder ends should be flush with the previously soldered parts 10 (some trimming of one girder may be needed here). Use a square to ensure you get a right angle in all three dimensions!

If modelling a 4-doll signal, fold the tabs between the girder ends outwards as shown on the diagram; otherwise fold them inside the girders and solder.

For a 4-doll signal, fold (5), place a doll holder inside as required, and solder the open end to the end of (4), with the half-etched girder holes to the bottom. Some trimming of the ends of (5) may be needed to get a good fit.

Using the platform (7), align the doll holders as required, then solder them to the top face of the girders.

If needed, cut the platform to size at the marked line A-A, then solder it to the doll holder tops. Ignoring the handrail hole tags, the front face of the platform should be flush with the outer edge of the girder at the front of the signal; the overhang is to the rear. Depending on the position of the doll holders, you may first need to solder pieces of scrap fret across the girder tops to keep the platform level.

The Platform Bracing

If modelling an equal-tee bracket, you will need to make extra bracing parts from L-shaped brass girder and scrap fret.

Bend up the two parts 11 as shown in the diagram and solder them to the post and the underside of the girders. The angle varies between prototypes. File the end soldered to the post flush with the post side.

Bend up the U-shaped piece (not numbered – to the left of (9) on the fret), then break off the trapezoidal piece from one end, and cut out the centre of the “U” from the other, thus giving two separate L-shaped girders. Solder to (10) and (11) as shown in the diagram – the girder flats face outwards and upwards. Any excess length at the (11) end should be removed. Solder the trapezoidal piece across the tops of these girders, butting it up to the top faces of (11), and file flush with all girder edges. However, note that few prototype signals appear to have had this part fitted.

Solder the two parts (12) to the top faces of (11); use photographs to establish the position. File flush with the girder outer edges.

The Smoke Deflector

Bend up parts (8) and (9), then solder them together as shown in the diagram. Position to match your track, remembering that the inside face of the post must be at least 8'6" (59.5mm) from the nearest rail, and solder the top face of (8) to the underside of the platform, so that the deflector's long overhang is under the platform.

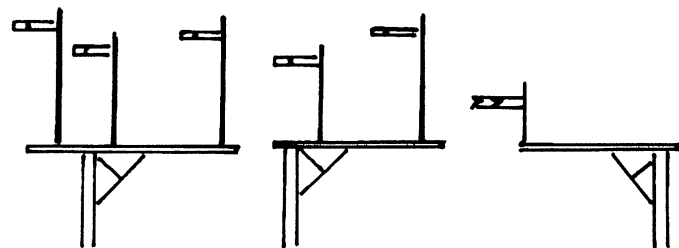
Finishing Off

If necessary, cut the post to length, leaving a minimum of 13'6" (94.5mm) between the underside of the smoke deflector and the rail head – remember to allow for the distance between the rail head and the baseboard surface. Fill all gaps at the post corners; for wide gaps you may need to tin with 188° solder first, then fill with 70° solder, which spans gaps better. Open up the half-etched holes on the front girder - these are the mounting holes for the rocking shafts used to transfer the signal wire motion from the post to the dolls. The holes on the rear girder should be filled with solder. Finally, solder the post to the baseplate (part 3).

The basic post is now complete, and ready for the addition of laddering, handrails (0.45mm diameter), dolls etc.

Painting

The completed signal should be sprayed with matt white primer. Laddering and handrails and the bottom 4' of the post should be painted matt black.



Example formations that may be built from this kit

