


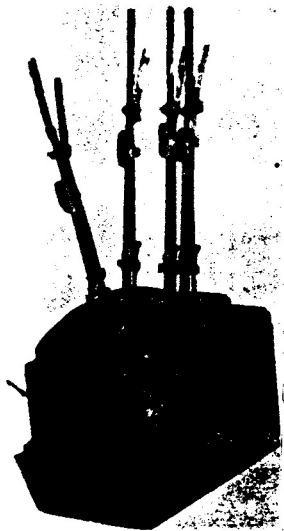
MODEL SIGNAL ENGINEERING



Part of WIZARD MODELS LIMITED
 PO BOX 70 BARTON upon HUMBER DN18 5XY
 01652 635885 www.wizardmodels.ltd

SCALE	CODE	
4 mm	LS009	

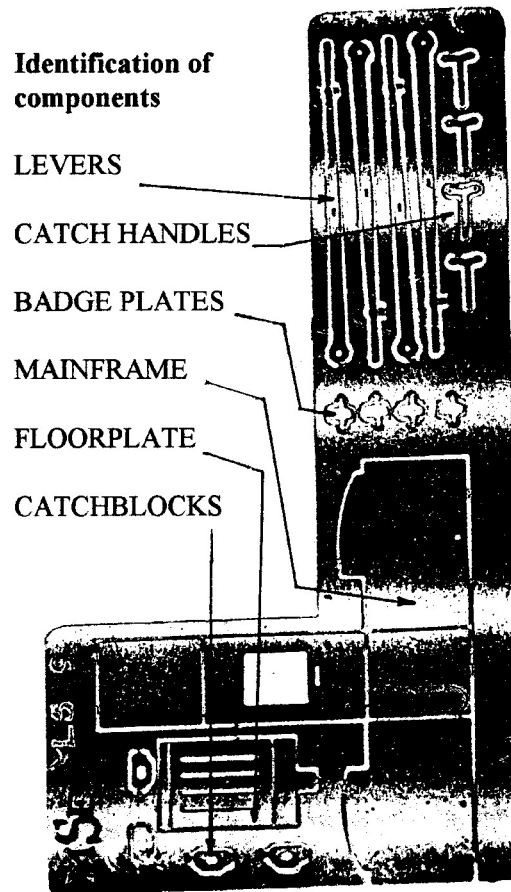
FOUR-LEVER GROUND FRAME (cosmetic)



For goods yards,
release crossovers,
remote points & crossings

Etched brass kit for soldered construction. Fully detailed levers, catch handles, catch blocks and number plates. Based upon Sykes and Saxby & Farmer pattern Knee frames.

May be used on its own, in conjunction with a ground frame cabin, or recessed into a timber platform at a station or in the open. Also found in small signal cabins on light railways where limited facilities existed.

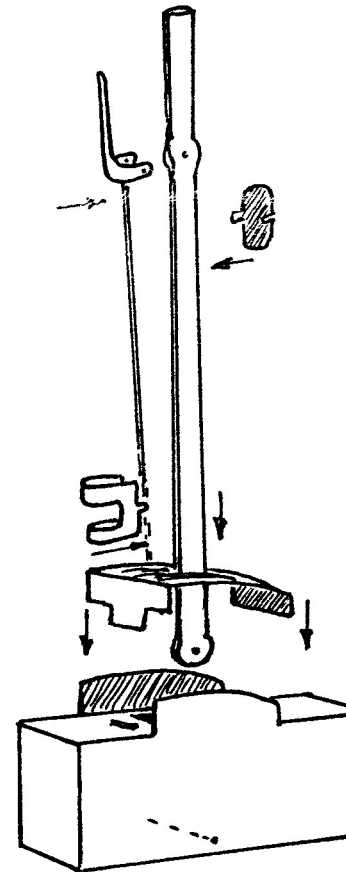


ASSEMBLY SEQUENCE

Burnish both sides of the fret before removing any components.

Mainframe

Remove the mainframe from the fret and fold so all the half-etched lines are inside the resultant box and all is square. The horizontal plate should be flat. Solder all joints. Should you wish to model any levers in the reversed position, remove around 1mm from the front edge of the square hole in the mainframe.



Curve the slotted floorplate to match the profile of the outer radius of the box just made by rolling on a pile of old newspapers. Fold down the front and back edges and place the component inside the box frame, with the tab in the slot. Solder all joints

Levers

Tin both sides of all components before removing from the fret. Fold up the catchblock - start with a 90° bend using pliers, then complete the fold over a piece of scrap etch. Solder to the lever with the top in line with the etched slot, trapping a piece of 0.33mm brass wire in the joint (the exact height may be established by temporarily fitting a lever in the frame). Cut the wire to length - level with the slight bulge in the lever. Fold up the catch handle, and solder to the lever level with the bulge, trapping the wire in the joint. Solder on the badge plate, using a pair of pliers to hold the lever and act as a heatsink, otherwise the previous joints may well unsolder.

Final assembly

Fit the levers into the frame slots and anchor in place with the 26swg nickel silver wire through the side holes. Solder the wire to the frame, and then the levers to the wire, ensuring they are perpendicular to the frame. (Unless some levers are to be painted other than black, in which case it will be easier to paint them first.)

Mask the lever tops then spray everything with primer. If the frame is operating points only, spray everything black, then add a touch of white to the badge plates. Levers working point locks should be painted blue, and those for ground signals red.