

MILL LANE SIDINGS

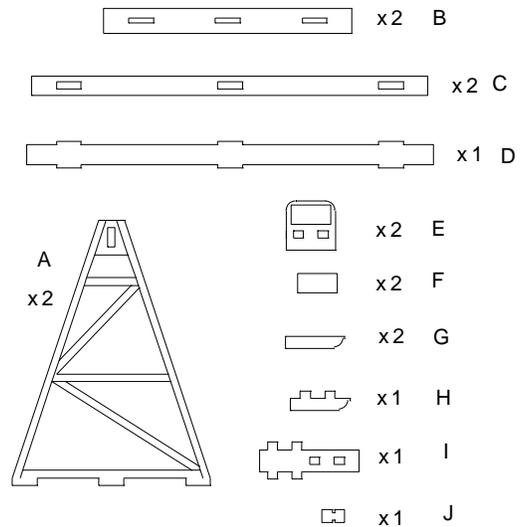
MLS037 Gantry Crane

General Notes On Construction

Only a few basic tools are required – a sharp craft knife, wet 'n' dry sandpaper, fine paint brush (OO), files and tweezers.

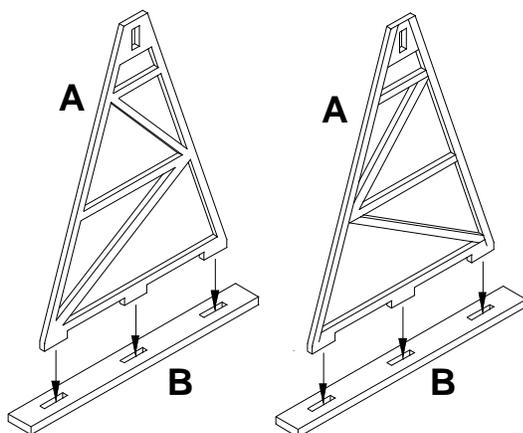
The main parts of this kit are made from Rowmark – this is a slightly harder plastic than most kits which enables it to go through a laser cutting process without melting. Normal liquid polystyrene does not always weld the parts, however, a stronger glue such as Plastic Weld (intended for ABS, Perspex, etc.,) will. The resulting joints may still, however, be a little brittle, so it is recommended that once dry, joints are reinforced with a thin brush of another adhesive such as PVA or superglue.

You may find it easier to paint the main sub-assemblies (A-frames, I-beam, crane) before final assembly, especially if the crane is to be made to move.

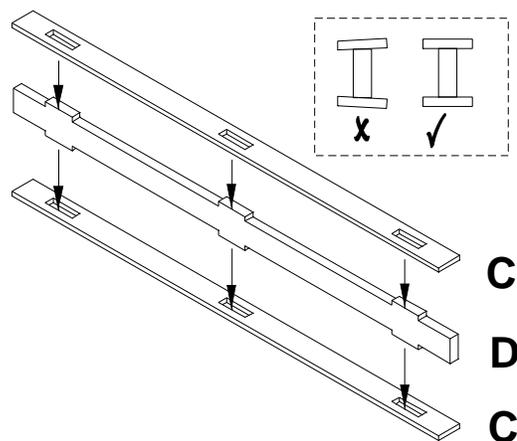


Construction

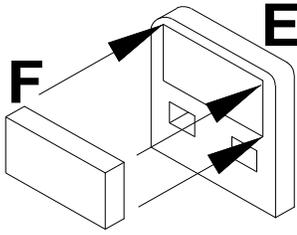
1. Glue the A-frames (A) into the bases (B). The tabs on part A may be a tight fit into the slots on part B – do not force! If required, run a file over the faces of the tabs to remove any burrs. Make sure that the A-frames stand at 90 degrees to the base. Note that the outside face of the A-frames has etched detail on it.



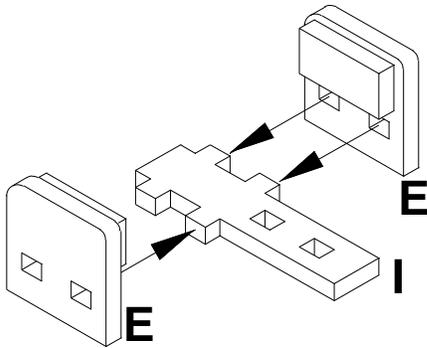
2. Glue part C (2 of) to the top and bottom of part D to form the I-beam. Make sure that all three parts are at 90 degrees to each other. If they do not form a perfect 'I' then the crane will not move along the I-beam. The span can be shortened if needed by carefully removing equal amounts from all 3 parts.



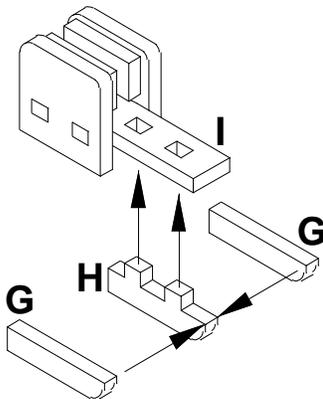
3. Glue part F to part E. Note that part F aligns to the etched line of the same size on part E. Repeat for the second parts E and F.



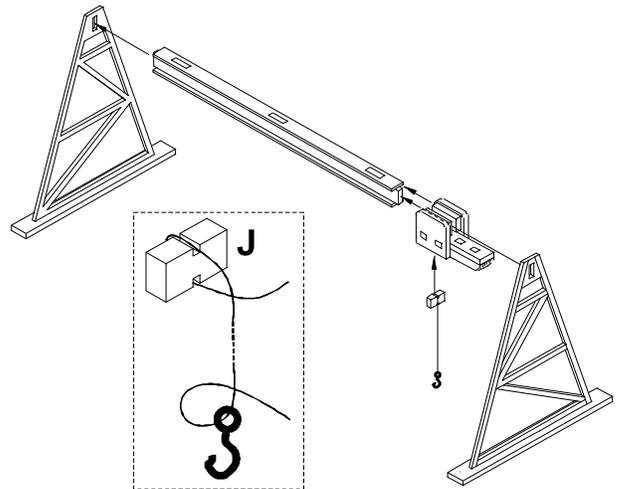
4. Glue both of part E to Part I with part F facing inwards. Make sure that both of E are at 90 degrees to part I otherwise the crane will not move along the I-beam. It is helpful to carefully insert the crane on to the I-beam before the glue sets to make sure that it moves along the I-beam. If it is very stiff, grip the crane at the bottom and gently splay the sides outwards. Be aware that even a thin coat of paint may prevent the crane moving, so it is better to have a loose fit of the crane to the I-beam.



5. Glue part H to I and then glue part G (2 of) either side of part I.



6. After painting, slide the crane onto the I-beam. Glue the ends of the I-beam into the A-frames (remembering that the etched sides of the A-frames face outwards. The hook has been sprayed with primer, but remove any of the fret that may still be attached to the top of the 'O' at the top of the hook. Tie a knot in the cotton thread through the 'O' on the hook and tie another knot around the notches in part J so that the hook hangs to the desired length. Glue part J under the crane (to part I and between parts E).



7. Fix the completed crane to your layout making sure that the A-frames are at 90 degrees.

