Isle of Wight (ex-SECR) steam stock
Kit construction notes

In your Eastleigh Model Rail kit you will find:

- Two bogie centres (8BC)
- Two SECR 8ft bogie frames left side (EBL)
- Two SECR 8ft bogie frames right side (EBR)
- One SECR 54ft underframe (USE)
- Two underframe trusses
- One interior (E4I, ECI or ESI)
- One step end (ESE)
- One switchbox end (EXE) or brake end (EBE)
- One left-hand bodyside (E4L, ECL or ESL)
- One right hand bodyside (E4R, ECR or ESR)
- One SECR-type roof (RSE)

You will also need.....

- Your choice of OO, EM or P4 14mm diameter disc wheels
- Brass 'top hat' bearings
- Couplings - the kit is designed to use the Symoba close-coupling system (available from DCC Supplies (dccsupplies.com). You will need one pair of Symoba 111 sliders and one pair of Symoba 110 short NEM pockets, together with your choice of NEM couplers.
- 8BA/M2 nuts, washers and bolts
- Adhesives and plastic filler (I use Deluxe Models Glue 'n Glaze to fix glazing panels in place as it avoids the risk that cyanoacrylate glues may 'fog' some clear plastics).
- Glazing (See "Glazing dimensions for Eastleigh kits" PDF downloadable from the Resources section of the Eastleigh Model Rail website.
- Paints and transfers

3D printed parts can bow slightly but they are usually quite easy to straighten, for example by taping the affected part to a flat surface and leaving overnight in a warm place. Avoid intense heat.

If you lose or damage any parts during construction, let us know and we will replace them for you at cost.

Body

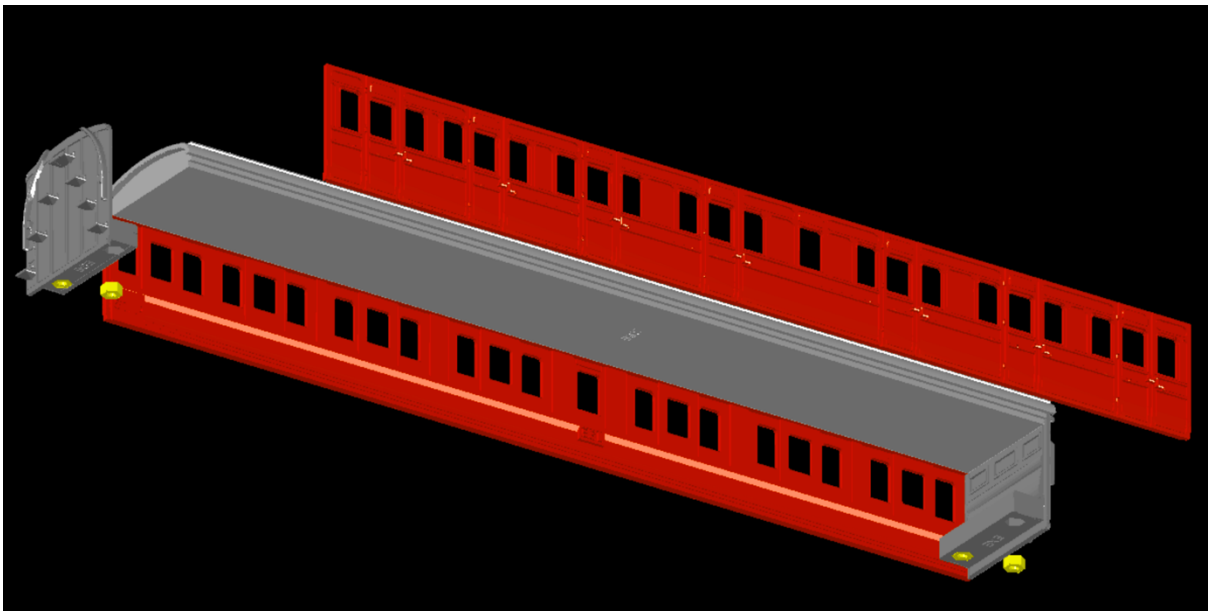
You may find it easier to paint and glaze the bodysides before assembly.

Glue 8BA (or M2 metric) nuts into the hexagonal recesses in the body ends.

Test fit the step end (ESE) and the switchbox or brake end (EXE/EBE) to the roof, noting that the roof overlaps the ends. When satisfied, glue the components together and check that the assembly is square by standing it on a flat surface.

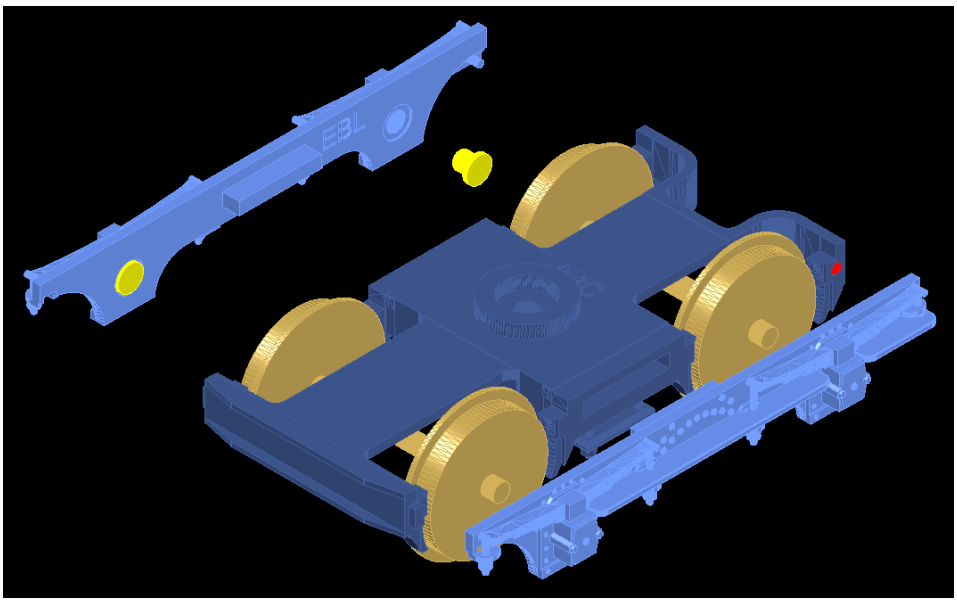
Test fit the body sides to the roof/end assembly, noting that the sides overlap the ends. Note also that the body sides are marked 'step' at the ends to be fixed to the step end (ESE).

When satisfied with the fit, run a bead of glue along the groove in the roof and down the contacting surfaces of the ends and glue each side into place in turn.



Bogies

Eastleigh bogies are dimensioned to accommodate 'OO', 'EM' or 'P4' gauge 14mm disc wheelsets with standard 26mm 'pinpoint' axles and the sideframes have holes to fit shouldered 'top hat' brass wheel-bearings. The motor and trailer pickup bogie centre modules incorporate NEM pockets for your choice of inter-unit coupler. Trailer bogies have a recess at the outer end to accommodate a range of close coupling systems.



Paint the inner faces of the sideframes and the centre section and glue a brass 'top hat' wheel bearing into each of the holes on the inner faces of the bogie sideframes before assembly.

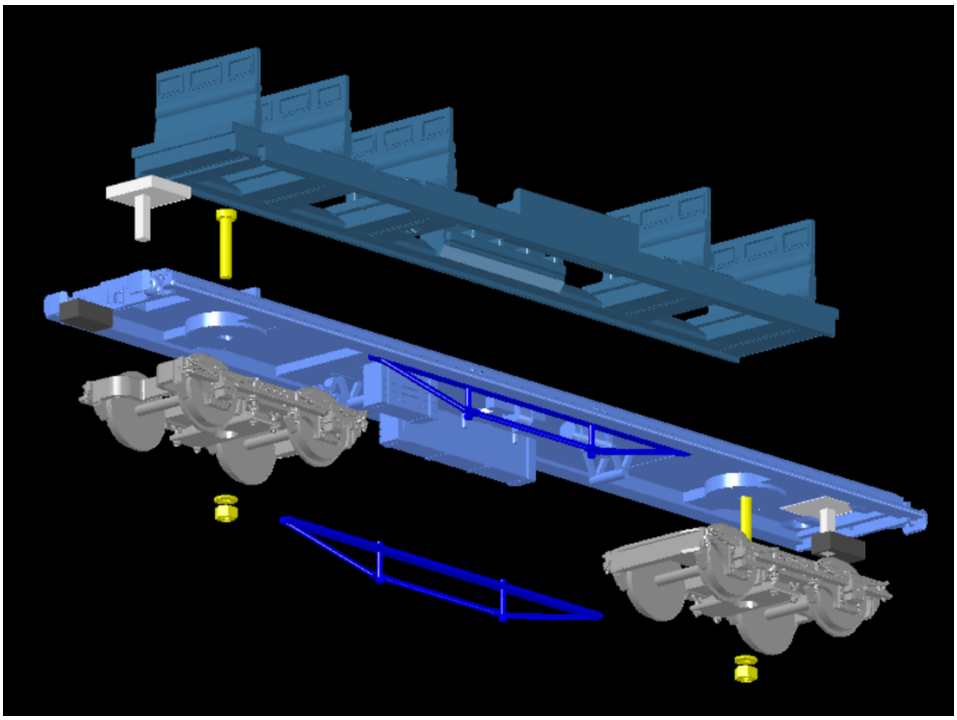
Bogie assembly is straightforward but note that the sideframes are 'handed' to ensure that step-boards are correctly positioned. Tabs and recesses on the centre and sideframes ensure accurate location.

Assemble the bogie with the wheelsets in place. Check that all four wheels of your assembled bogie sit squarely on a flat surface such as a sheet of glass.

Underframe and interior

Drop ½ inch 8BA (12mm M2) bolts through the holes in the bogie pivots at both ends of the underframe. Check that the each pivot bolt is absolutely vertical and secure it in place with glue. Run a washer and nut on to the lower end of the bolt to hold it temporarily in place whilst the glue sets.

Fit a Symboa 111 close coupling slider into the openings at both ends of the underframe. Glue into place so that the coupler is flush with the underframe floor.



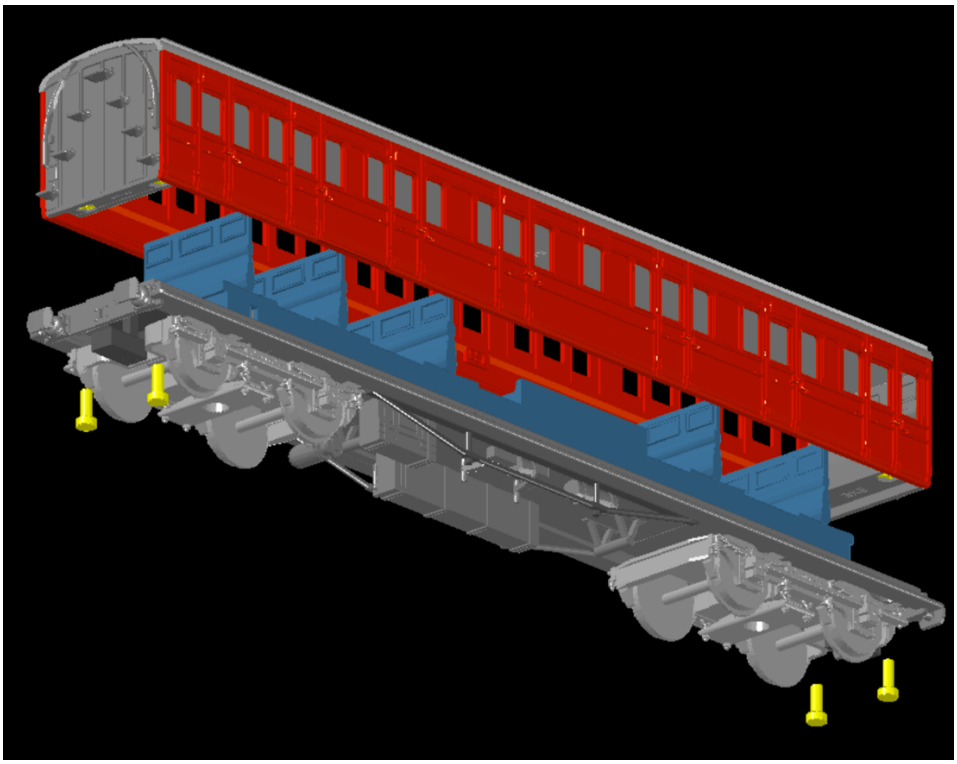
Mount the underframe on its bogies and secure in place with washers and nuts, checking that the bogies can pivot freely.

Glue the interior module to the underframe using the ridges and grooves on the upper surface of the underframe to ensure precise location.

Fit the underframe trusses into the locating holes in the underframe.

Final assembly

Join the body to its underframe and secure with ¼ inch 8BA (6mm M2) bolts.



Insert a coupler into each Symoba pocket and glue the pockets to the Symoba slider unit at the desired height, making sure that the coupling assembly can swing freely beneath the underframes.