

Assembly Notes:

Cutting & Filing Rail:

Stock, switch, and check rails can be cut to length with a pair of Xuron cutters, using the turnout base as a guide. All rail ends must be cleaned up & filed to aid threading the rail into the baseplates. This is a **VERY important step**, as any burr on the rail ends will damage the plastic baseplates. Filing a slight taper on the foot of the rail will make threading into the baseplates much easier.

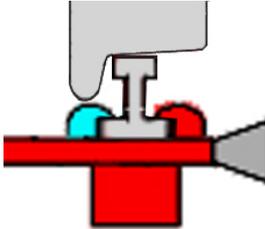
Cutting Baseplates off the Sprue:

A new, sharp modelling knife is essential to cleanly cut out the baseplates from the sprue. An Exacto knife with #11 blade is ideal. Baseplates can be cut off of the sprue using a sawing action with the blade. Any burrs can be trimmed off once the baseplates are installed onto the base.

Installing Baseplates onto the base:

There are 2 methods of installing the baseplates.

- The advised method is to install all of the baseplates onto the turnout base first, and then slide the rails through (note that the rails must be inserted in a specific order, usually cast frog, switch blades then stock rails). A great tip here is to place each baseplate on the end of a scrap piece of rail, this makes it very easy to insert the baseplate into the hole on the base. Insert the short piece of scrap rail into the baseplate before cutting it off the sprue.
- The 2nd method is to slide each baseplate into each piece of rail first, and then insert the rail and baseplates onto the base holes.



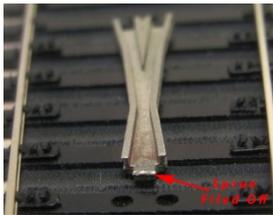
Note that the normal baseplates are inserted into the base in a particular orientation, which is represented in light blue on the assembly diagram, to aid in orientation. Light blue is where the wheel flange rides.

Soldering Electrical wires to the rails:

An electrical wire must be soldered to the bottom of the Stock Rails and Switch Blades. If using the first method of installing baseplates onto the base and sliding in the rails, the wire must be soldered onto one end to allow the rail to slide through the baseplates. The '*Suggested Wiring Diagram*' shows the suggested solder locations. It is down to the builders preference as to the type of wire used, small decoder wire or enamelled wire on the reel are good choices.

Installing the Cast Frog/K Crossing:

An electrical wire must be soldered to the bottom of the frog and SLO ZAP Super Glue used to fix it onto the base. It is important to solder the electrical wire so that it sits between the base timbers.



Note that the cast frog/K Crossing arrives with part of the sprue still attached (see photo), this will need to be filled down with a file or dremel cutting disk.

Filing the 'foot' off of both stock rails:

The foot (bottom) of each stock rail needs filing down to allow clearance for the switch blades, allowing them to make proper contact with the head (top) of the rail. Only one side of the rail needs filing, the side that makes contact with the switch blade. This is accomplished using the appropriate filing jig (AV, CV, EV etc – sold separately). Please see the instructions that came with the jig to file the foot off the stock rails.

Threading Rail into Baseplates:

It is much easier to thread the rail through the plastic baseplates if a taper is filed in the foot of the end of the rail. Make sure there is no burr on the rail otherwise it can damage the baseplates.

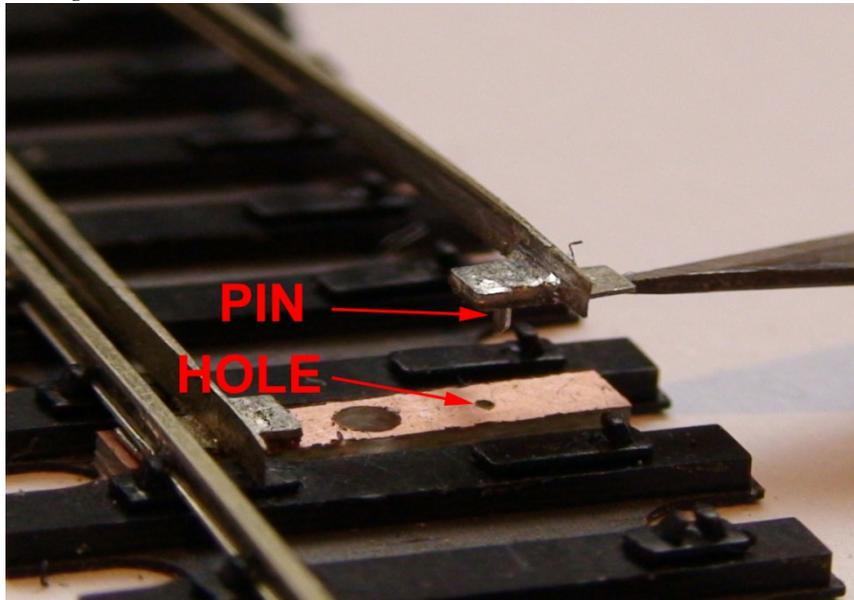
Filing Check Rail ends:

The check rails require a small gap to be introduced at each end of the rail, giving a 1.3 - 1.4mm gap between the stock rail and the very end of the checkrail. This is accomplished using the switch blade filing jig for flat bottom rail (sold separately) to file a taper on the ends of the check rails. See the instructions that come with the jig.

Filing and Soldering Switch Blades:

Please follow the instructions that came with the Switch Blade Filing and Assembly Jig, sold separately www.britishfinescale.com.

Installing Switch Blades & Tie Bar:



The tie bar should be placed into position between the timbers on the base where there is a slit for the switch machine wire.

Each Switch blade can be offered up to the base and cut to length so that there is a gap between the switch blade rail and the cast frog (about the thickness of 2 sheets of paper). Once cut to size, each switch blade can be slid into the baseplates and into place. The pin under the soldered switch blade chair plate is inserted into the small 0.4mm hole in the tie bar.

Fixing the Baseplates with Butanone Solvent:

Once you are happy with the assembly, the baseplates can be permanently fixed to the base using Butanone Solvent (available from www.britishfinescale.com). The solvent can be applied using a small brush or 'Pin Flow' applicator. Don't be too sparing with the solvent, plenty needs to be applied to give a good joint.