

Society Turnout Operating Units SD164 (12mm) and SD166 (14.2mm)

The description demonstrates how the Turnout Operating Unit (TOU) should be installed and operated.

1. Siting the Turnout Assembly

Assemble the turnout according to the usual process or following the kit instructions as appropriate. Offer up the completed turnout to the baseboard and carefully mark the position it will occupy when the trackwork is completed.

2. Siting of the TOU

In the event of a complete turnout being temporary located on the baseboard, the drilling jig is located over the rails as shown in Fig1 below:



Figure 1

It is also possible to work off a template secured to the baseboard in the required position and the drilling jig located over the top of it as shown in Fig 2:



Figure 2

Note that, when using both methods, the two TOU operating holes shall be sited over the centreline of the stretcher bar (the horizontal black line shown in both figs)

Drill two 2mm holes through the baseboard as shown in the above figs.

3. Drilling the holes for the TOU

If the turnout is being used to locate the drilling jig, remove it now to a safe place.



Figure 3

Attach the drilling jig to the baseboard using two M2 screws passing through the previously drilled holes and drill two 1/8" pilot holes through the baseboard.

4. Opening up the baseboard holes

Remove the Jig and open up the 1/8" holes to 5/16" diameter through the baseboard.

5. Assemble the TOU

Clean the Slider of any remnants of the sprue and assemble the mount and the slider as shown in Fig 4

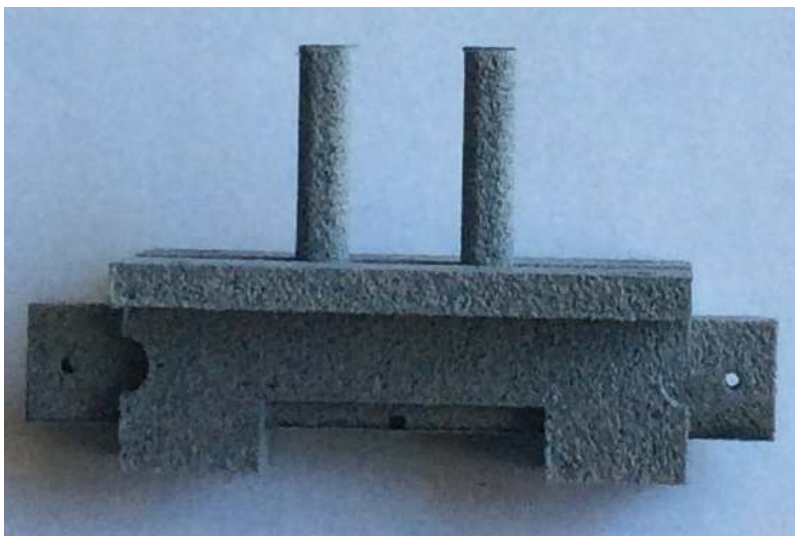


Figure 4

6. Mounting the TOU

Push the Mount over the two M2 screws protruding through the baseboard in a way that allows the slider to pass through the two 5/16" holes and cut the tops of the slider level with the top of the baseboard as shown in Fig 5:

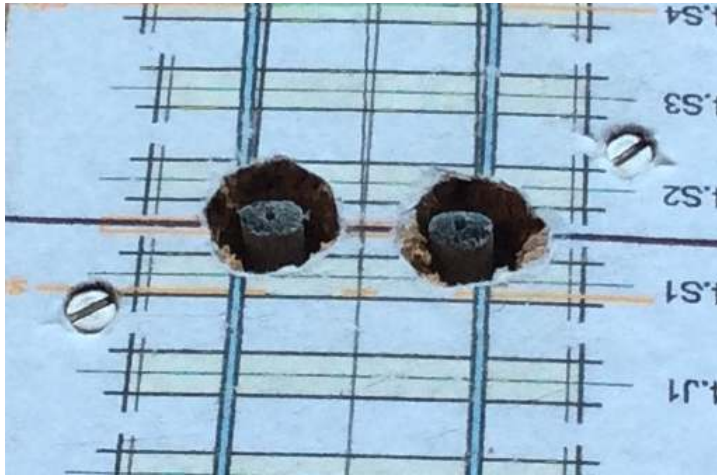


Figure 5

Glue a piece of paper over the holes drilled in the baseboard and fix the finished turnout into position on the baseboard as shown in Fig 6 using the location markings made in Section 1. At this point, ballasting can be carried out but it may be advisable to remove the TOU whilst doing this.



Figure 6

7. Fixing the Operating Wires

With a 1mm diameter drill, clear the two holes in the operating pillars. Take two lengths of 0.60mm diameter Brass or Nickel Silver wire each about 50mm long and push them up through the TOU so that they pierce the paper glued over the holes and bend approx. 3mm at one end of each at right angles as shown in Fig 7. With a sharp knife slit the paper so that the TOU can operate freely.

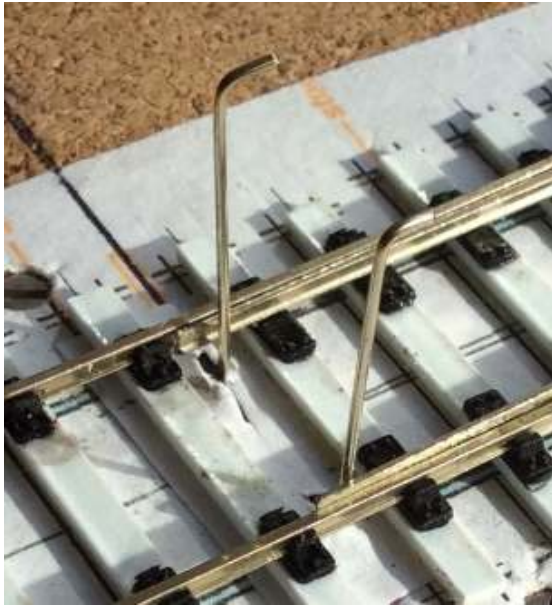


Figure 7

Slide the wires through the holes in the TOU such that the bent ends locate in the web of the switch rails as shown in Fig 8

Push the slider so that one of the wires pushes the switch rail against the adjacent stock rail and carefully solder the wire to the switch rail. Pull the slider so that the opposite wire pushes the other switch rail up against the adjacent stock rail and repeat the soldering operation.

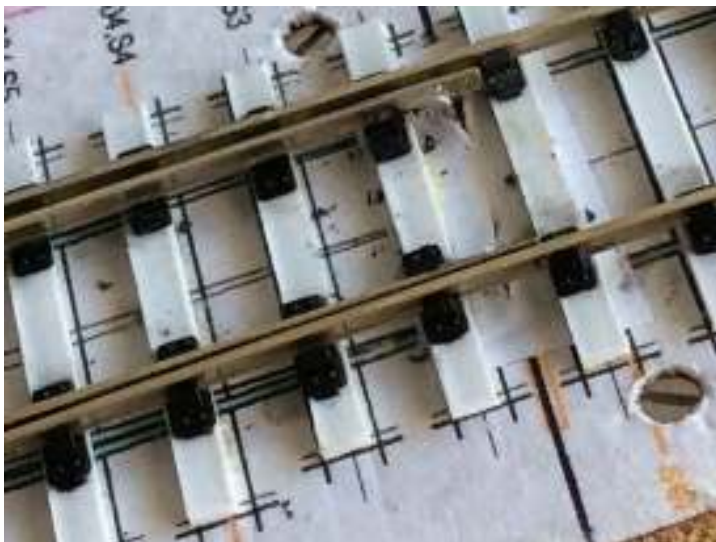


Figure 8

Ensure that the TOU operates as required and stock will pass through the turnout.

From the underside of the baseboard, bend the ends of the operating wires at right angles so that the tops of the switch blades are level with the stock rails as shown in Fig 9



Figure 9

Ensure that the TOU operates satisfactorily and connect it to your preferred operating mechanism.

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