



## **Repairing tubular lamps for Trix 20/56, 20/60, 760, 20/52 SL, TTR remote control semaphore signals**

The special brass tubular lamps are no longer made but suitable wire-ended glass lamps, e.g. 12V "Grain of Wheat" types are available from model railway suppliers.

Remove the old lamp as follows:

1. One wire comes out through a hole in the side of the tube. Cut this wire free with a craft knife or de-solder it using solder wick or a solder pump.
2. Place the lamp on the work surface with the soldered base terminal uppermost. Melt the solder with a miniature soldering iron and clear the solder with solder wick or a solder pump. If these are not available, use a needle or wire about 1mm thick to push the lamp wire through the base terminal (and hence the lamp) out through the open end of the tube.

N.B. It may help to get an assistant to hold the tube with a small pair of pliers during this operation.

3. Push in the new lamp, threading one wire out through the hole in the side of the tube and the other out through the insulated terminal hole in the base. If the latter proves difficult, try entering a small syringe through the base and using the hole in the syringe tube to guide the lamp wire out as the syringe is withdrawn. Solder the two wires leaving a nice rounded blob of solder to form the base contact. Cut off the surplus wire and the job is done!