

# A GUIDE TO RESISTANCE SOLDERING - Supporting notes

1. The Scalefour Society: <https://www.scalefour.org>

Missenden Railway Modellers' Weekends:

<http://www.missendenrailwaymodellers.org.uk>

2. There are a number of Resistance Soldering Units on the market, the most common (designed specifically for modelling) is made by London Road Models.

<https://traders.scalefour.org/LondonRoadModels/various/soldering-materials-and-tools/>

3. To make your own leads, you need cable and plugs rated to at least 35 amps. Codes supplied to me by LRM for materials from:

RS Components: <https://uk.rs-online.com/web/>

Red PVC wire 748 1976

Black PVC wire 748 1970

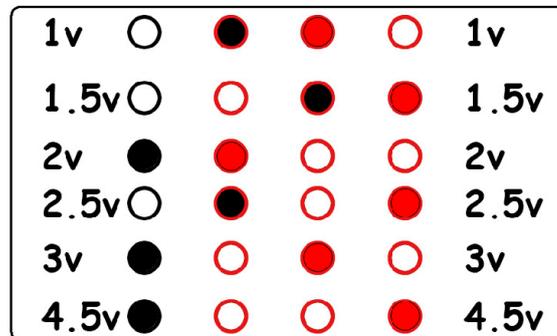
Red silicon 748-1995

Black silicon 748-1998

Black plug 641-8019

Red plug 641-8075

4. The label which shows the plugs settings for the different voltages.



*For use with London Road Models Resistance Soldering Unit*

5. Magnets: Two UK websites which have a wide range of magnets:

◆ First4magnets: <https://www.first4magnets.com>

◆ Bunting / EmagnetsUK: [https://e-magnetsuk.com/neodymium\\_magnets/](https://e-magnetsuk.com/neodymium_magnets/)

Do check the pull. Neodymium magnets are strong. Mine have a pull of 2.7Kg which is a bag and a half of sugar.

6. Tools:

◆ Carbon rod: check the diameter. London Road units use 5mm. Available from:  
London Road Models <https://traders.scalefour.org/LondonRoadModels/>  
Eileen's Emporium <https://www.eileensemporium.com>

- ◆ Heatproof or ceramic tipped tweezers: Ebay: <https://www.ebay.co.uk> Search for ceramic tipped or heatproof tweezers
- ◆ Micro mesh flexible foam sticks:  
Eileen's Emporium: <https://www.eileensemporium.com>  
Modelling Tools UK: <https://www.modellingtools.co.uk>
- ◆ Parallel jaw (or action) pliers: Tools'n'Tools: <https://www.toolsntoolsuk.co.uk>
- ◆ Hackle pliers by Veniard. From angling shops. With (recommended) and without finger pads. £2.50 to £3.

7. 100 degree solder: Phoenix Precision There are two packet sizes available.  
<https://www.phoenix-paints.co.uk/products/carrs/soldering/solderpackets>

8. Model kits and parts mentioned:

- ◆ Morgan underframes and GWR iron mink - Scalefour stores. Although the Stores are for Society members, non-members can email [stores@scalefour.org](mailto:stores@scalefour.org) and enquire about the Morgan range of underframes and the iron mink.
- ◆ GWR steam railmotor is not yet available - still in development.
- ◆ PC Models and David Geen kits are currently not available except as second-hand items.
- ◆ Southwark Bridge Models: from Roxey Mouldings. Put 'Southwark' in the search box.  
<https://www.roxeymouldings.co.uk>
- ◆ Bill Bedford sprung W irons: Eileen's Emporium:  
<https://www.eileensemporium.com>
- ◆ Exactoscale fishplates: not currently available. Other Exactoscale components are available through these Societies.  
Scalefour: <https://www.scalefour.org>  
EMGS: <https://www.emgs.org>  
ScaleSeven: <https://www.scaleseven.org.uk>  
GOG: <https://www.gaugeoguild.com>

9. The original printed articles on Resistance Soldering are in Scalefour News Nos. 206 and 207, February and May 2018.