



90 Series Battery Replacement

The rechargeable battery of the 90 Series is built-in, so the instrument must be disassembled to replace it. This is normally done in the factory but can be done by qualified technicians according to the following procedure.

Please read the entire procedure first, before starting to replace the 90 Series battery.

1. Remove the 4 screws from the rear of the 90, which hold the rear panel in place.
2. Carefully open the rear cover of the 90.
3. Locate the black and red battery wires coming from the PCB, and note the polarity of the battery header connector. Remove the battery header connector.

Older versions of the 90 Series did not have locking battery headers, so the headers were glued into place with silicone sealant. If this is present in your meter, then it must be cut away before removing the battery header.

4. Remove the 2 nuts that hold the battery holder in place. Make a note of which way the battery is mounted, in particular which side the wire comes out. The battery holder and battery can now be removed.
5. Fit a new battery, making sure that its in the same position as was noted in step 4 above.
6. Replace the plastic battery holder and re-fit the 2 nuts tightly. The star washers **MUST** be used, as they prevent the nuts from unscrewing over time.
7. Fit the battery header connector onto the pins on the PCB, with the same polarity as noted in step 3 above.

If the header does not fit and you have an older version of the 90 Series, then the two guides are approximately 1 mm high, 1 mm and 8mm long and can be trimmed off using a sharp blade.

Also for older versions of the 90 Series, if you had to cut away silicone sealant in step 3 above, re-glue the battery header into place with new silicone sealant. Neutral cure sealant is recommended, as it has no vapours that can be harmful to the PCB components. If acetic cure sealant is used, leave the 90 enclosure open for at least 24 hours while the sealant sets. Avoid moving the unit for 24 hours to allow the silicone sealant to set.

8. Close the 90 enclosure lid and re-fit the 4 screws tightly.