



Technical Bulletin

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Subject: Field Replacement of Memory Battery

IMPORTANT - Please read this

The battery which is fitted inside the MC Series1, MC2, MC204 and MC214 Motion Co-ordinators is NOT a field replaceable unit by design and should have a life expectancy well in excess of 5 to 6 years under normal conditions. We do appreciate; however, that from time to time the situation at the customer's application will mean that return of the unit to the manufacturer for battery replacement will not be acceptable.

The following information is provided therefore to allow the customer to change the battery himself. However, Trio Motion Technology cannot accept responsibility for any such work undertaken by the customer or a third party on the customer's behalf. If the Motion Coordinator is still under manufacturer's warranty it must be returned to Trio Motion Technology in order to keep the warranty valid.

BATTERY TYPE

The memory backup battery is a VARTA Mempac® part number 3/V150H

In the UK these are available in the UK from:

- FARNELL; catalogue number 279-353
- RS components; catalogue number 422-393

REPLACEMENT PROCEEDURE

Read these instructions IN FULL before starting work.

Before removing the old battery, make sure that you have up to date backup copies of all Trio BASIC programs and any data in the form of VR() variables or TABLE entries.

Before working on the Trio Motion Coordinator, set up a static-controlled work area in which to dismantle the Motion Coordinator. Remove the covers from the unit and change the battery as follows:

1. Unscrew the 2 socket head screws and remove the front plastic moulding.
2. Remove the top metal access cover by unscrewing the 2 screws.
3. Unscrew the 6 screws along the top and bottom sides and the 2 countersunk screws at the rear which hold the main cover.
4. Remove the cover to expose the main printed circuit board and daughter boards.
5. If daughter boards are fitted, these will have to be removed also. Unscrew the small countersunk screw which holds the front panel of each daughter board and carefully unplug the board from its socket.
6. Remove the main board from the metal chassis by unscrewing the 4 screws located at the corners of the board and the 2 screws which are approximately central on the front and back edges.
7. De-solder and remove the old battery being especially careful not to damage the plated-through holes in the printed circuit board.
8. Clean excess solder out of the holes, mount the new battery and solder the 3 pins to the PCB.
9. Check the PCB for solder splashes and carefully clean away any flux deposits from around the solder joints.

Re-assemble in reverse order to the instructions above ensuring that all screws are adequately tightened and any washers, bushes etc. disturbed during dismantling are put back in place. Do not lay the PCB down on any metal or other conductive surface because of the risk of short circuiting the battery.

Disposal of worn-out Battery



Please dispose of the old battery in accordance with local laws. The battery contains either Cadmium and Nickel or Nickel plus other metals. It is bad for the environment to bury these batteries in the ground and they must be disposed of responsibly.