

Trio Motion Technology Ltd.
Shannon Way, Tewkesbury,
Gloucestershire. GL20 8ND
United Kingdom
Tel: +44 (0)1684 292 333
Fax: +44 (0)1684 297 929

1000 Gamma Drive
Suite 206
Pittsburgh, PA 15238
United States of America
Tel: +1 412 968 9744
Fax: +1 412 968 9746

B1602 Tomson Centre
188 Zhang Yang Rd.,
Pudong New Area, Shanghai,
Postal code: 200122
CHINA
Tel/Fax: +86 21 587 97659



Doc No.: AN-257

Version: 1.0

Date: 18 June 2010

Subject: MC224 Battery Replacement

APPLICATION NOTE

1. IMPORTANT - Please read this

The battery which is fitted inside the MC224 Motion Co-ordinator is a field replaceable unit by design and should have a life expectancy well in excess of 5 years under normal conditions. Replacement does require the complete removal of the MC224 top and end covers. It should be done by suitably qualified technicians only.

The following information is provided the customer to change the battery themselves. 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.

Note that during the process of removing the battery, all data held in battery-backed memory will be lost. Make backup copies of all data before proceeding.

2. When to replace

If the BATT led (red) on the front of the MC224 is illuminated, it means the battery is nearly discharged. As soon as this LED appears, it is advised to back up all data from the MC224 and replace the battery.

3. Battery Type

The battery is a non-rechargeable coin cell. VARTA type CR2450.

This battery can be obtained from many suppliers world-wide.

4. Replacement Procedure

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. Identify the battery in its holder, located at the top rear of the PCB, near to the back panel.
6. Remove the old battery by carefully lifting the + contact spring a little bit and sliding the battery out sideways. Be careful not to over-stretch the spring clip.
7. Place the new battery into the holder with + terminal uppermost, making sure that the + spring clip makes positive contact with the battery.

Re-assemble the MC224 case 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.

5. Disposal of worn-out Battery



Please dispose of the old battery in accordance with local laws. The battery contains Lithium and other metals which mean it is bad for the environment to bury these batteries in the ground. They **must** be disposed of responsibly.