



Technical Bulletin

Trio Motion Technology Ltd.
Shannon Way,
Tewkesbury
Glos. GL20 8ND U.K.

Tel: 01684 292333
Fax: 01684 297929
Email: apps@triomotion.com
Web: www.triomotion.com

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Subject: Use of verify on 2 axis Motion Coordinator MC202.

The VERIFY instruction in Trio BASIC has a slightly different function on the MC202 and Euro205 platforms to the function described in the standard Technical Reference Manual. The manual assumes that the step/direction signals are switched internally by the VERIFY command as they are where a daughter board is used.

The MC202 is able to count step/direction but because internal switching does not occur, the signals must be wired externally.

A description of the VERIFY command as it applies to the MC202 follows, along with a simple circuit to feed the signals back to the encoder inputs. 12V or 24V signals should **never** be connected to the encoder inputs. In this case a suitable voltage level change circuit must be used between the step/direction signals and the MC202 inputs.

VERIFY

Type: Axis Parameter

Description: The verify axis parameter is used to select different modes of operation on a stepper encoder axis.

VERIFY=OFF

Encoder count circuit is configured so that STEP and DIRECTION may be hard wired to the A and B encoder inputs so that these are counted as if they were encoder signals. This is particularly useful for registration as the registration circuit can therefore function on a stepper axis.

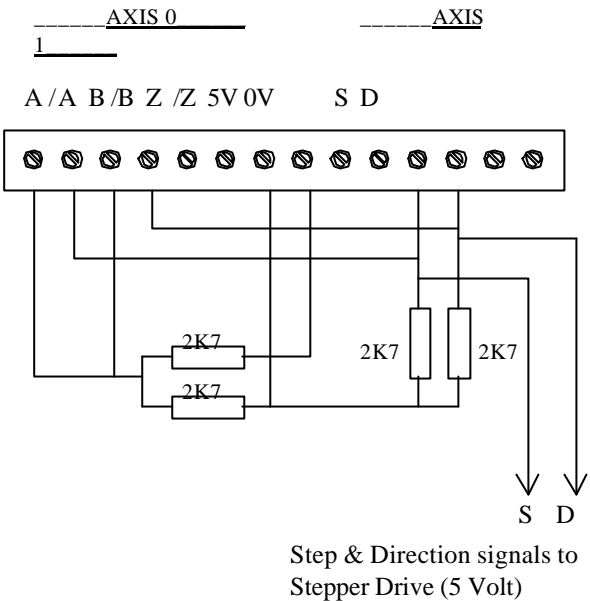
VERIFY=ON

Encoder circuit is connected to external A,B, Z signals

Example: VERIFY AXIS(0)=ON

Shown below is a simple circuit which may be used to connect the step and direction signals for Axis 0 back into the encoder input so that they may be counted and/or used for registration with VERIFY=OFF.

Note: The inputs to AXIS 0 encoder must NEVER exceed 5 Volts.



Step & Direction signals to Stepper Drive (5 Volt)