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Technical Bulletin

Background

In May 2007 an issue came to light which affects the stepper output on axis 1 during change of direction. This document describes which EURO205X *Motion Coordinators* are affected and the recommended solution.

Products Affected

All EURO205X Version C PCB with **Version 9709 FPGA**. This includes Serial numbers **P151-001905** to **P151-002199**.

If the application uses the stepper outputs in both direction on axis 0 to 3 then this bulletin should be acted upon.

Symptoms of stepper fault

Missing stepper pulse between 2 consecutive move of opposite direction on axis 1 above a speed of 1000 pulses per seconds. The problem will only be seen during change of direction.

Remedial Action

If the application allows it, It is possible that the error can be masked by applying a small delay between 2 consecutive moves of opposite direction. However it may be preferred that the EURO205X is returned to Trio for the FPGA to be reprogrammed. It is not possible for this modification to be made in the field unless done by a Trio authorised person provided with a FPGA programming platform.

If the EURO205X is returned to Trio for this work to be done, there will be no charge for components or labour up to 5 years after the original shipment date of the controller from Trio. Beyond 5 years the work will be treated as a normal repair and the standard repair charge applied. Other than this “extended warranty”, Trio’s normal repair terms and conditions will apply to any EURO205X returned for this work to be done.