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**Subject:** MC206 DAC Reset

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## Technical Bulletin

### 1. Background:

The Motion Coordinator Technical Reference Manual requires that the watchdog relay is connected to the system drive enable circuit.

However in some MC206 based systems, where the user has chosen not to connect the watchdog relay, it has been found that sometimes the motors do not stop when WDOG=OFF is entered. The reason for this is that on some MC206s the analogue outputs do not return to 0V when the watchdog output is disabled.

### 2. Applicability:

Any MC206 Motion Coordinator in a servo-encoder system (1 to 4 axes) may show the above symptoms.

- \* Digital systems such as SERCOS, CanOpen and SLM are not affected.
- \* Stepper systems are not affected.

### 3. Resolution:

The non-zeroing of the Analogue output is caused by a reset signal to the DAC being out of tolerance in some MC206s. This can be fixed by a system software modification that writes zero to the DAC when WDOG goes to OFF.

Loading system software version 1.6339 or later will fix this problem.

MC206 Motion Coordinators manufactured after the first quarter of 2005 will have a modified DAC reset circuit that works correctly with all versions of system software.

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| <p>It is strongly recommended that the watchdog relay is always wired into the motion system's drive enable circuit so as to disable the drives and motors when an error occurs.</p> |
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