Purpose:
To advise customers of a solution to problems that can cause a thread to “hang” on a motion statement, “Internal Errors” and “Illegal While DSP Busy Errors” (ERR = 1912 and 1610) when using CAM STOP statements.

Description:
When a CAM axis STOP statement is executed, information is placed on the DSP Motion Queue. In the affected versions of MotionBASIC®, this information is not properly removed when the statement is complete. This can result in the queue becoming full causing the thread to hang on the next motion statement.

If the CAM axis STOP statement refers to multiple axes, there are conditions where this could also result in an “Internal Error” (ERR = 1912).

Attempting to execute a POS.ACT@ = value statement while a CAM axis STOP statement remains on the DSP Motion Queue, will result in an “Illegal While DSP Busy Error” (ERR = 1610).

Products Affected:
MotionBASIC® Versions 4.0.0 through 4.1.2.

Solution:
After executing a CAM axis STOP statement, execute a HALT axis statement before executing any other axis related statements. Please note that the axis must be enabled in MODE@ = 5 or 4 when the HALT axis is executed for this solution to work.

Or, upgrade to MotionBASIC® version 4.1.3. which will resolve these problems.