



# Application Note

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**Subject:** Use of the LOCK() and UNLOCK() commands

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**Requirements:** System software V1.31+ , MC2 / MC204

The LOCK(security code) command can be to stop MC2/MC204 programs being seen or copied by machine users. When the controller is locked the following commands are not available:

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To make the programs available again the UNLOCK(security code) command is required.

When the controller is locked Motion Perfect cannot be used except in its "disconnected" terminal mode.

Although the LOCK command can be issued at the Motion Perfect Terminal window, this should **not** be done as it prevents correct operation of Motion Perfect.

To avoid Problems the following Procedure should be used:

### To LOCK your Application Software:

- (a) Use Motion Perfect to debug and develop the software in the normal way. When complete the programs should be "Fixed" which stores them into flash Eprom.
- (b) When fully developed select [Controller] [Disconnect] from the toolbar. Alternatively Open Motion Perfect with the Shift Key Pressed. Motion Perfect will start Disconnected..
- (c) Select [Tools] [Terminal] to open a terminal window. Press ENTER in the window to see the Command Line prompt '>>'.  
>>
- (d) You may now use any of the command line operations. To LOCK your application software type the command LOCK(code). The number "code" can be any number but keep it simple *and record it so that you can remember it later...*

### When your software is LOCKED:

Motion Perfect will not connect and will report 'No controllers found'. You will not be able to use any of the Motion Perfect features but you may still use the [Tools] [Terminal] feature to access the Command Line.

### To UNLOCK your Application Software:

- (a) Start Motion Perfect. If LOCKED Motion Perfect will report an error and start Disconnected.
- (b) Select [Tools] [Terminal] and open a Communications window.
- (c) Press ENTER in the window to obtain the Command Line Prompt '>>'  
>>
- (d) Type in UNLOCK(code) , substitute YOUR security code for "code"
- (e) Start Motion Perfect by selecting [Controller] [Connect].

**NOTE: YOU MUST RECORD YOUR PASSWORD AND TAKE CARE WHEN TYPING IT IN. THERE IS NO EASY WAY TO DEFEAT IT.**