

The Application Note is pertinent to the Commander SK

## Commander SK Security



For some new User's of the Commander SK Drive, the parameter security system is sometimes found to be a rather mysterious subject. This article will attempt to unveil those mysteries.

### Security Basics

The Commander SK has three levels of security used to access parameters. The drive comes "*Out of the Box*" with **L1** or Level 1 security set. This means parameters 1 – 10 ( #0.01 – 0.10) can be viewed and edited. Parameters 1 – 10 are typically considered the most basic drive configuration registers. They contain mostly motor information and start/stop logic selections.

**L2** or Level 2 access allows the user to view and modify parameters 1 – 60. More advanced features like Brake Control and Fieldbus configuration takes place in these registers.

**L3** or Level 3 access is used to gain the right to use parameters 1 – 95. This group has parameters 61-80 that can be used to gain access to any register in the drive. With level 3 access you can also see Pr 81 – Pr 95, which are used for diagnostic functions.

The last level is **Loc**. This means a custom user security code has been entered. The user chosen code will need to be entered prior to editing any registers in the drive.

### User Security Code Assignment

The security code is set in the following manner:

1. Set parameter 10 to "**L2**"
2. Set parameter 25 to any number from 1 to 999
3. Set parameter 10 to "**LOC**"
4. Upon pressing the **(M)** MODE key Parameter 10 will be set back to "**L1**" and Parameter 25 is set to 0 to hide the security code.

## Changing a Parameter Value

Select the parameter to be changed and press the mode **(M)** MODE button. The display will read “**Code**” and flash.

Use the up arrow to enter the code and press the mode **(M)** MODE button. “**Co**” will be displayed on the left.

The current (and any other) parameter value may now be changed.

Press the mode **(M)** MODE button twice and the display will revert back to the default display.

To reinstate the security code, go to parameter 10, select “**LoC**” and press the stop/reset button.

## Forgotten Security Codes “The Back Door”

If the security code has been forgotten, the following procedure may be used to get in thru the “*back door*”.

This will not work from the remote keypad. You must use the drive keypad.

1. Remove Power from the drive ( wait until display goes dark )
2. Hold in the **up** and **down** arrows while re-powering the drive.
3. Go to parameter 25 (you may have to set parameter 10 to “**L2**”)
4. The security code will be displayed.
5. Follow “Changing a Parameter Value” above.



To watch a video illustrating this procedure click here → [CTVI121](#)

## Resetting Back to No Security

1. Set Pr 10 to L2
2. Go to Pr 25
3. Press the mode **(M)** MODE button
4. The display will read “**Code**” and flash.
5. Use the up arrow to enter the code and press the mode (M) button.
6. Set Pr 25 to 0
7. Press the **(M)** MODE key

**Note:** CTSoft may be used to modify parameters if the security code is not known, but the software cannot view the actual code. A free download of CTSoft can be obtained at:



[CTSoft](#)

## Logic/Smart Stick Back Door



Logic Stick



Smart Stick

The SK drive can use a Logic Stick or a Smart Stick to copy programs from one drive to another. If #00.28 is set to boot the logic/smart stick becomes **read only**. The read only status becomes permanent unless the following procedure is followed.

1. Set Pr 00.00 = 9666
2. Press reset key (Red Stop button)
3. Pr. 00.28 should go back to "no"
4. The Logic/Smart Stick is now read/write again

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