

Servostar (UCB) firmware upgrade

11 June 2001 (OKD)

Introduction

Servostar firmware can be upgraded through serial communication using a windows program. This note describes the steps for doing that on the products:

Servostar –S , CD , PICO , TRMM

The procedure in short:

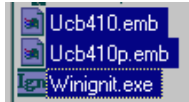
1. Obtain the [firmware files](#) and winignit application.
2. Check present version by the VER command.
3. [Backup drive](#) configuration with MotionLink
4. Set COMMODE=0 and [Clear E²prom](#) by the command CLREEPROM.
5. [Run winignit.exe](#) and select communications and firmware version.
6. After completion cycle power.
7. Restore configuration using MotionLink Backup.
1. [Forced EMBER](#) dipswitch setting 1–10 [11110–11101]

[FAQ](#)

[Contact](#) A more elaborate description of the process attached below

Firmware files

The firmware .emb file and the winignit.exe program :



The ember files are Servostar firmware version. The suffix "p" indicates that the version is intended for Servostar–PD (PICO). On Servotronix network the version files are located at:

<I:\eng\TDCB\version\release\formal\>

Drive backup

At the MotionLink Terminal screen  you may check the present version by typing the VER command.

Using MotionLink backup screen  Backup the drive configuration to a disk file.

Clear E² prom

Enter the Terminal screen



If the drive is a SERCOS one, enter COMMODE=0.

Enter the command CLREEPROM.

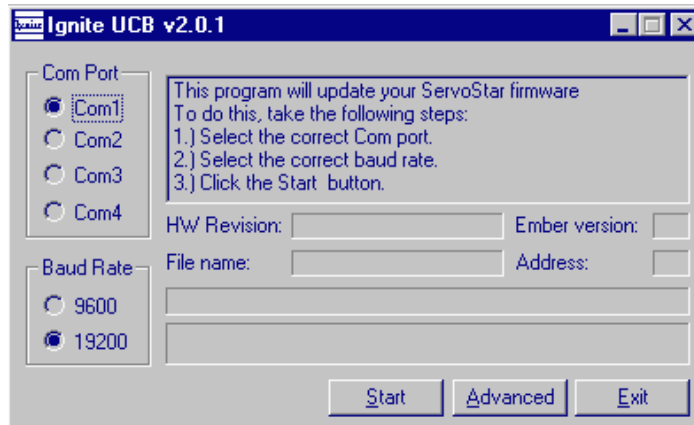
Drive Connection

Make sure the drive is powered and connected to serial port (connection can be verified by establishing a MotionLink connection).

At this time if another program or MotionLink is occupying the serial port close the application or set MotionLink to off-line mode.

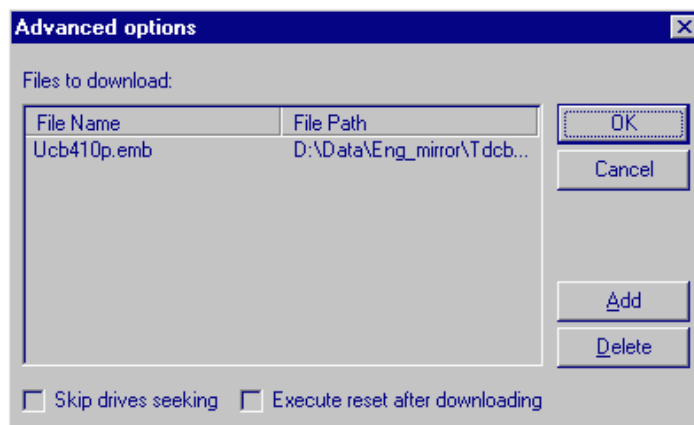
Ignite application

Run the winignit.exe program



Select the Com port and Baud rate according to the connection. (dipswitch 6 at the Servostar determines the baud rate).

Enter the advanced screen and verify that the desired firmware name appears in the window



The figure above describes embering version 4.1.0 on to a PICO unit.

If the file appearing is not the one you would like to update, then select and delete it and add the desired file.

Click **OK** and return to the main screen and hit **Start**.

A process of establishing communication is followed by the ember process (approx. 7 min. at baud rate 19200).

The LED display of the Servostar should display a steady



During this time.

After the download process completes, cycle power and restore the Configuration file using MotionLink Backup screen. If the drive is a SERCOS drive, a COMMODE=0 is required in order to download the backup file.

At the MotionLink Terminal enter VER to verify that the version has been updated.

Forced Ember

In cases of E²prom failure, forced Ember may be required in order to establish communication with the drive. The dipswitch settings for doing that is :

1-10 11110-11101

Power needs to be cycled for dipswitch changes to take effect.

FAQ: Q: Do I have to Clear the E²prom before ember?

A: No but if the firmware version differ with regards to the E² variables, than a clear E² will be necessary following the Ember process.

Q: Do I have to use MotionLink for the backup process?

A: Any serial terminal or hyper terminal can be used for that process.

Q: Do I have to go through the backup process?

A: Only if the drive has been configured for an application and you would like to keep the configuration.

Q: During the backup restoring process, there were errors do I need to go back to the previous version?

A: The Servostar versions are designed for backward compatibilty, the errors during backup indicate a temporary condition due to the fact that not all the variables have been defined at once. The drive should be ok once **SAVE**'d and **CONFIG**'d.

For more information please contact:

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