

# Motion4Sim AASD15A Servo- Controller

## Firmware Update Guide

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Follow these steps to update the firmware

1. Download bootloader application

<https://github.com/motion4sim/AASD15A-Servo-Controller-for-Motion-Simrigs/tree/master/bootloader>

2. Download latest firmware binary

<https://github.com/motion4sim/AASD15A-Servo-Controller-for-Motion-Simrigs/tree/master/firmware>

**Attention :** you can save the controller config with new remote app, please check out github for newest version

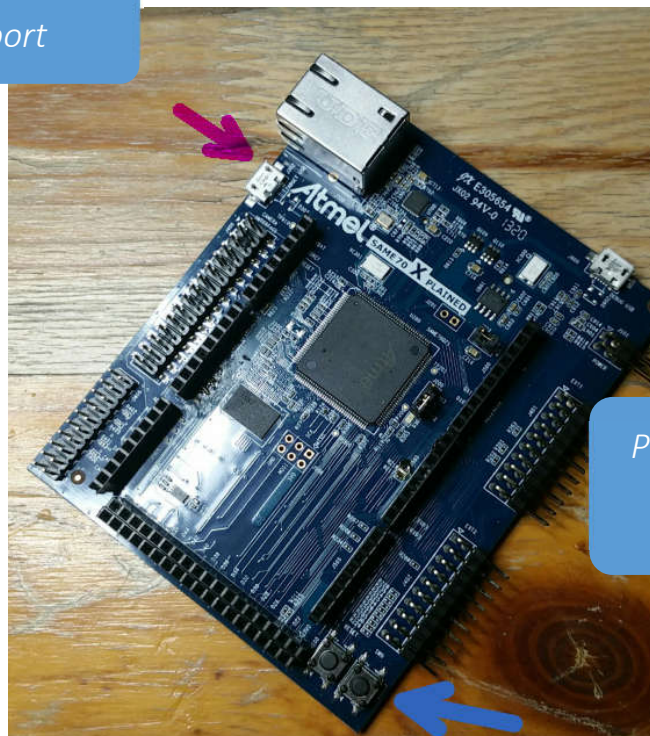
3. configure the controller for flashing the firmware

remove the shield from the e70 board

put the usb cable into the e70 USB port near the ethernet port

you can try to press them without removing the shield from the e70 normally this should work without any problems. be carefully with pins on the pcb

*Use native  
USB port*



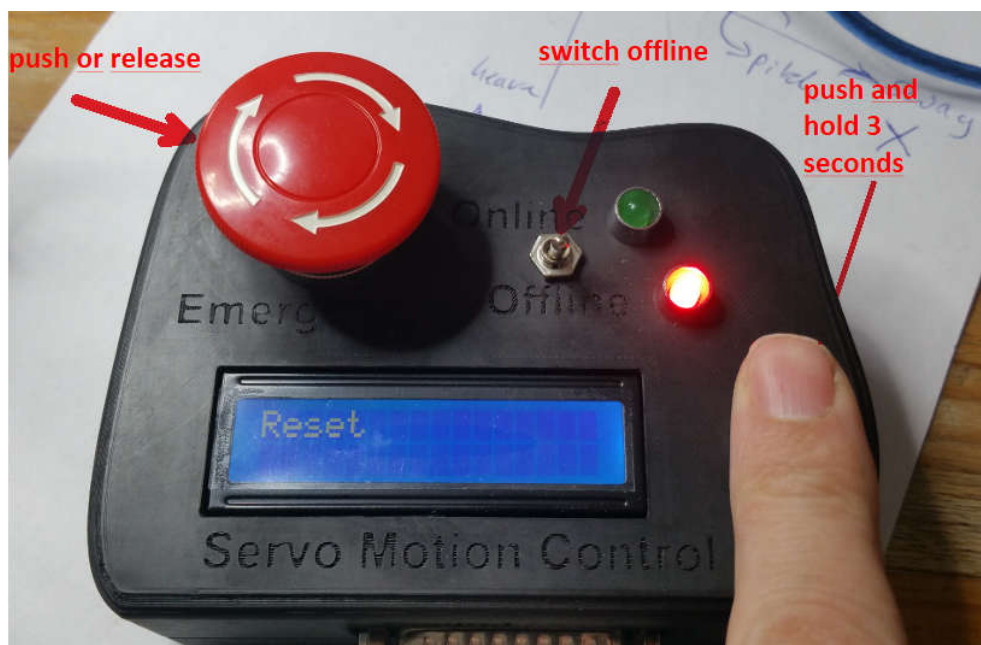
*Press both  
buttons*

4. Start the controller in downloader mode by pressing button 1 and 2 together  
( new usb device recognized)

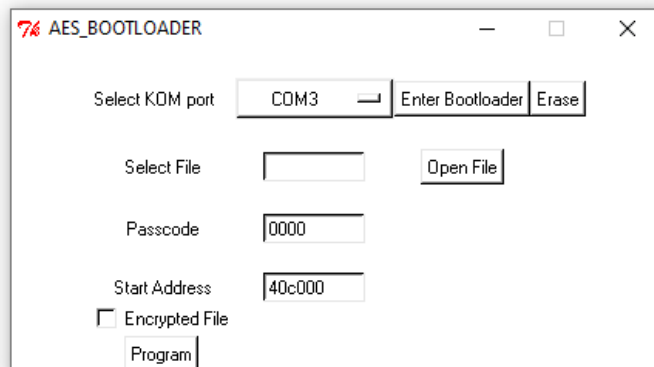
**NEW**

**with the new bootloader provided with controller after 14-03-21 there is a second easier way to start the bootloader. follow these instructions:**

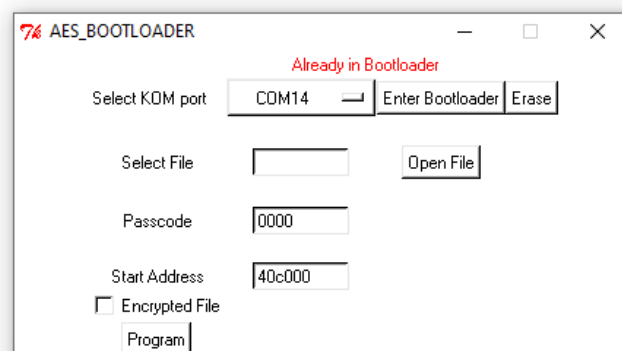
- a. switch offline an press emergency button  
(pay attention some emergency buttons are „normally closed“ they have to be released“
- b. then entert he menu oft he controller, go to „reset“ , press the encoder button an hold for 3 seconds
- c. the display should hold „reset“ and the controller restarts into bootloader mode ( new usb device recognized) the red led will go off.
- d. alternatively you can simply power the board



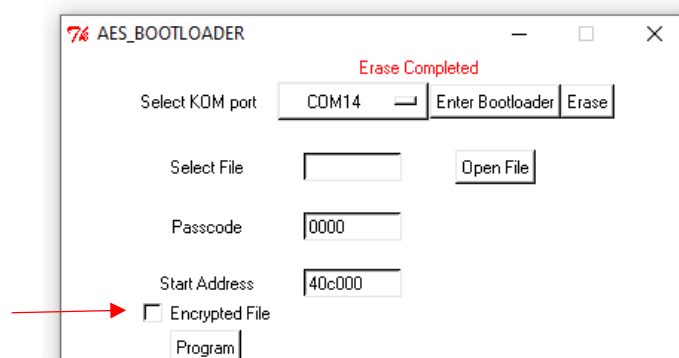
5. Start bootloader\_aes application previously downloaded



6. Choose com port of the controller already started in bootloader mode
7. Hit „Enter Bootloader“



8. Press „Erase“ and wait until erase completed



9. Select File „Open File“ and **check** „Encrypted File“
10. then press „Program“ to flash the firmware

After successful flashing, the controller restarts itself. Now you should do a factory reset of the eeprom data. Follow the next instructions for factory data restore:

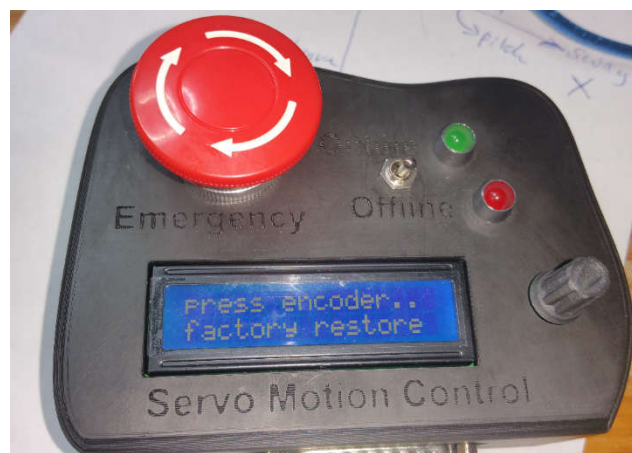
1. restart the controller
2. wait until display shows „press encoder to calibrate...”



3. now rotate encoder to the left until the display shows „press encoder.. factory restore“ and hit the encoder button, wait until eeprom is reprogrammed

**New**

there are 2 factory presets stored now if you turn left 1. For linear actuators and 1 for rotating actuators



4. now you can turn the encoder to the right to calibrate.  
if you have a saved config file, now you can load them back with the remote app. But be carefully check all values trough the controller menu.