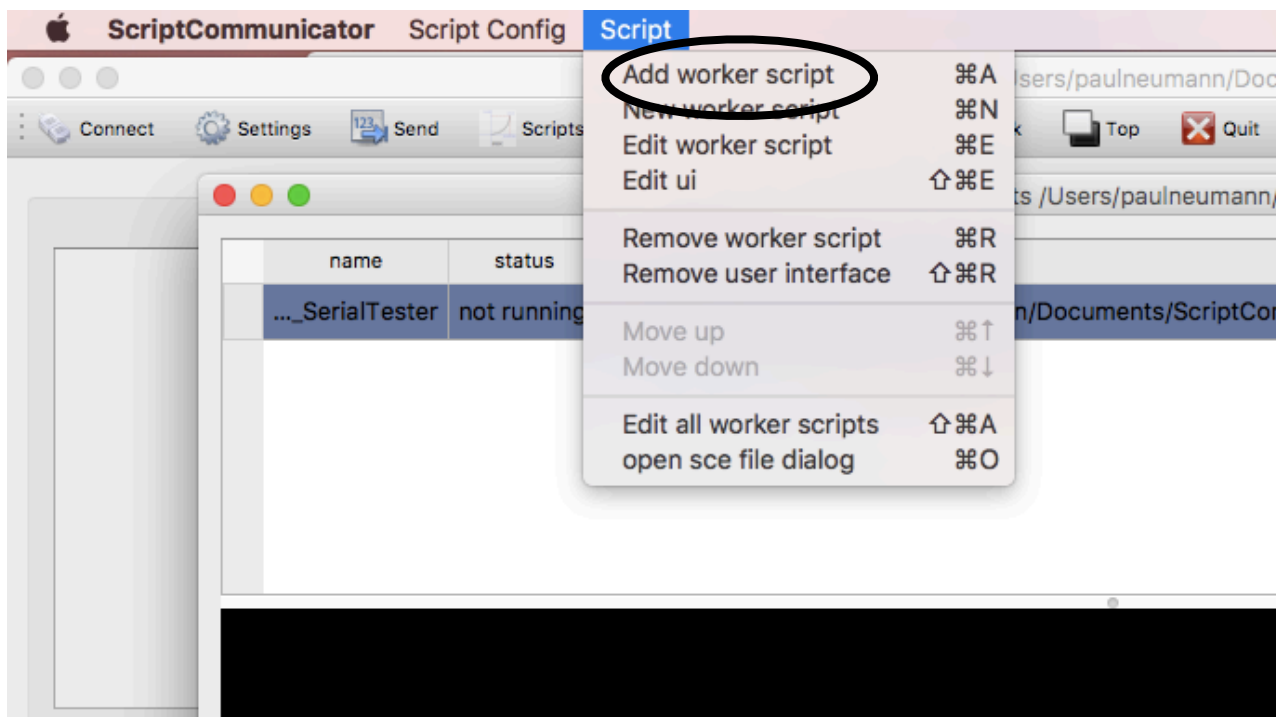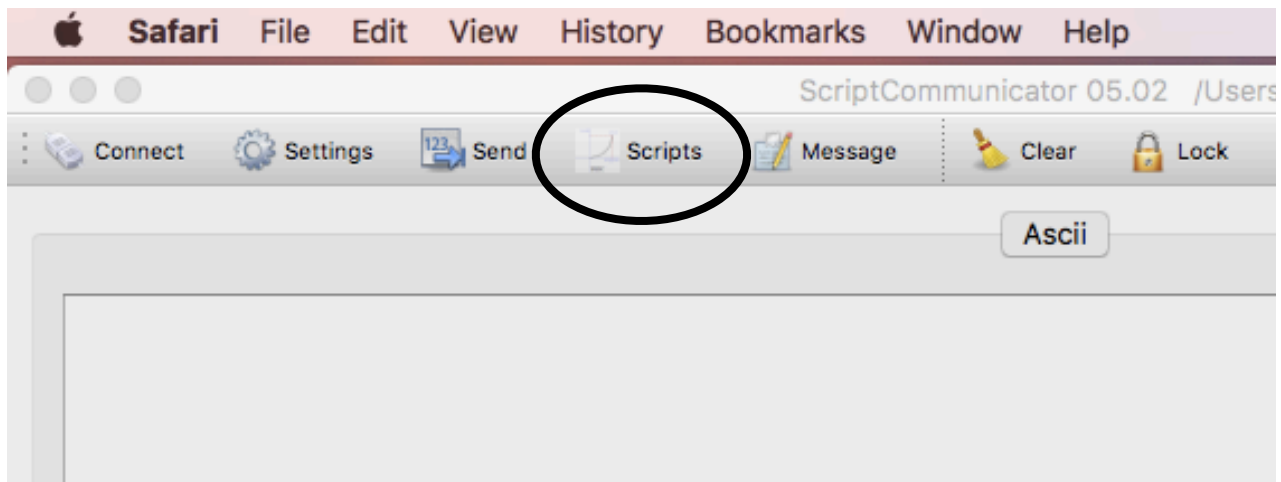# Using Script Communicator for Motion on 91-0X-9904 Controllers

A script and UI is provided for cross platform terminal communications using Script Communicator and sample scripts. Script Communicator can be downloaded at:

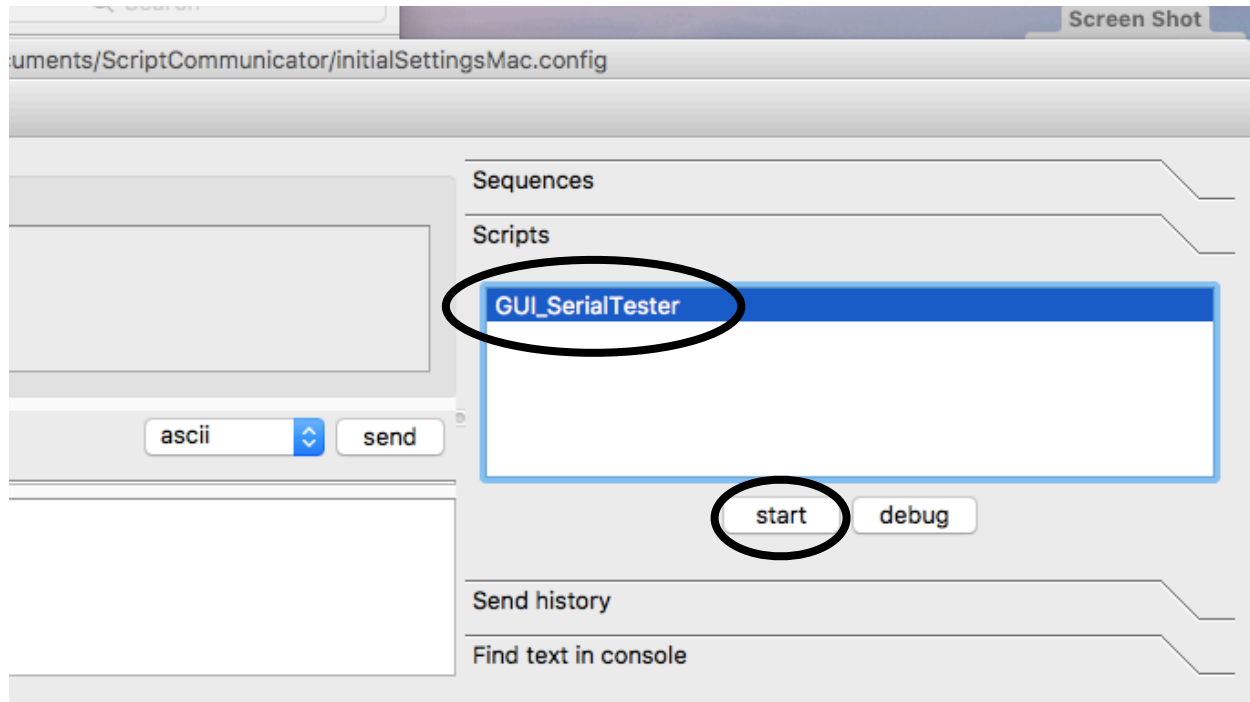https://sourceforge.net/projects/scriptcommunicator/

Install this program on Windows/Mac/Linux and open the terminal by running executable. On Mac, you will need to control + click the program and select Open.

Once running, you will need to install the provided scripts. To do this, select the Scripts to open the Scripts plane, then click on Scripts. Then, select Add Worker Script.
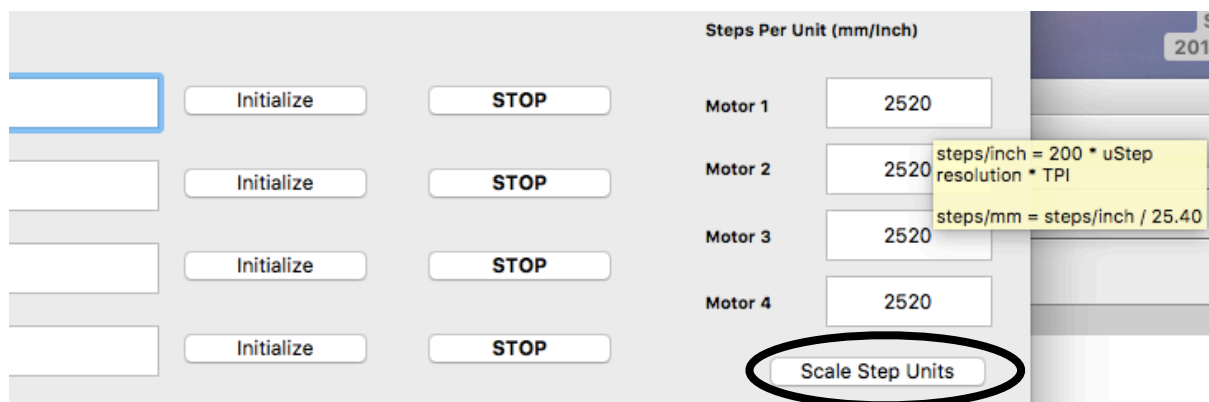
Ensure the worker script and accompanying UI script are in the same directory and share the same name. If this is correct, the UI script will automatically load. The script and UI will now be available to run.

Click on the Settings Icon and select the serial port and select 38400,8,N,1 as the settings. Close the Settings dialog and select Connect. Once connected, you can run the script by clicking start in the scripts dialog or by clicking on the Scripts tab on the right hand tabs and double clicking on the script name or clicking on Start.

The script will run and display the the positions as well as provide an interface for commanding motor positions based on units configured on the right hand side of the UI. The tool tip will display how to calculate the steps per unit. By default they are set to 2520, which corresponds to mm units on a 5 TPI lead screw. Once configured, press the Scale Step Units to update.

To command a position, first initialize the axis, then enter the units as a floating point number or integer. Please note the steps will be rounded in the nearest step. This rounded integer will be displayed in the console window for reference. The user can then click on Begin Polling to display the position on the associated text box.

Pressing the Stop button will stop the individual axis. Pressing the Stop All button will halt all axis. Please note it is best to stop polling before stopping or commanding new positions.