

ST Robotics - help sheet 1e

Loading/Reloading controller software

Instructions for Mk5 controllers and ROBOFORTH v15

How to load an updated version of ROBOFORTH

OR to reload your RAM from backup file: (only do this if you are SURE the contents of RAM are corrupted as this is unlikely).

Load the new or backup ROBOFORTH

Using RobWin

1. Select COLD START using front panel switch and press reset.

The message COLD START should appear on the screen.

If you press enter key you should see OK.

2 Click on File then Load Binary. Change the values in the box to show:

bank 0

Start: 4000

Length: 6000

3. Enter file name that you were given for the new version.

Version numbers will be

(for 5-axis)

R12VA16x.RAM or R17VA16x.RAM

(for 6-axis)

R12VA616x.RAM or R17VA616x.RAM

4. Enter ROBOFORTH

Check it first. (e.g. type START)

5. If OK enter PSAVE

6. enter USAVE

If you have a NEXUS teachpad now load it's software:

7. Click, file, open file and choose

(for 5-axis) NEXUS5 or NEXUS5x latest version (no extension)

(for 6-axis) NEXUS6x latest version (no extension)

8. Click file, download current. You will see 2 or 3 rows of chevrons e.g.

>>>>>>>>>>

9. Test first. If OK enter PSAVE.

Load a new NEXUS update

This assumes you have RoboForth and the Nexus already installed and you wish to update.

1. Enter ROBOFORTH

FORGET AX

2. Click, file, open file and choose the file sent to you e.g. NEXUS5x (no extension)

3. Click file, download current. You will see 2 or 3 rows of chevrons e.g.

>>>>>>>>>>

4. Test first. If OK enter PSAVE.

ONLY if you think the robot parameters are corrupted reload as follows:

1. Click file, load binary. Change the values in the box to show:

bank 0

Start: A200

Length: 200

Pick file name that matches the serial number of your robot e.g. R12Bnnn.SIG.RAM or R17Dnnn.SIG.RAM

2. Briefly check correct installation by typing START and CALIBRATE and HOME

3. Enter USAVE to save to flash ROM.

If you change the robot parameters and wish to save to disk:

1. Click file, save binary. Change the values in the box to show:

bank 0

Start: A200

Length: 200

Pick file name that matches the serial number of your robot e.g. R12Bnnn.SIG.RAM or R17Dnnn.SIG.RAM (but back up the original first)