WHY AREN'T MY MOTORS MOVING?

MACH3 TROUBLESHOOTING GUIDE (Flow Chart)

Verify your operating system meets the system requirements.

Verify your motion controller has a Mach3 compatible plugin installed.

Verify that the plugin is installed.

Verify your motion controller is selected as the active motion controller.

Verify that you have communication from Mach3 to the motion controllers.

If no input signals or step button, and/or limit switches to see if software needs diagnostic tool is where you can verify this.

Test input signals, step button, and/or limit switches to see if software needs diagnostic tool is where you can verify this.

If no errors are found, continue to the next step.

If no input signals are seen, verify that you are using the correct profile. Otherwise, follow the arrow to the right of Motion.

Verify your input/output signals are configured in Config > Ports and Pins > Input Signals/Output Signals > Motion.

Verify that everything is connected properly (Wiring).

Verify you have "Jogging" enabled (check the Jog On/Off button).

Verify you are using the correct port assignment for your motion (Config > Ports and Pins > Motor Outputs).

If a machining tool is selected press Tab on the keyboard, as well as Jog button.

Does either method work?

Click the function you want to set up and press the key you would like to be assigned to it.

Set up your buttons (Config > System Variables).

On-screen buttons work, but keyboard does not.

Does either method work?

No, both on-screen buttons and keyboard work as normal.

On-screen buttons work, but keyboard does not.

Test the changes (make sure you are following the Right Hand Rule).

What is the Right Hand Rule?

Restart Mach3 in between changes.

Restart Mach3 (as administrator).

It works correctly.

Congratulations! You are done troubleshooting. You can now use Mach3 as normal.

It doesn't work at all.

It works, but they move in the wrong directions.

Change the 3-Axis/AxisLow for each motor, one at a time.

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