

SeeMeCNC Guides

Carbon Fiber Arm Installation for DUET Printers

This guide will show you how to install the carbon fiber arms and modify your DUET3D printer config.g file and re-run the first probe.

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Step 1 — Remove Springs



- Remove the white plastic springs. Stretching one side at a time to release the ball on the spring. Set aside.

Step 2 — Remove Arms



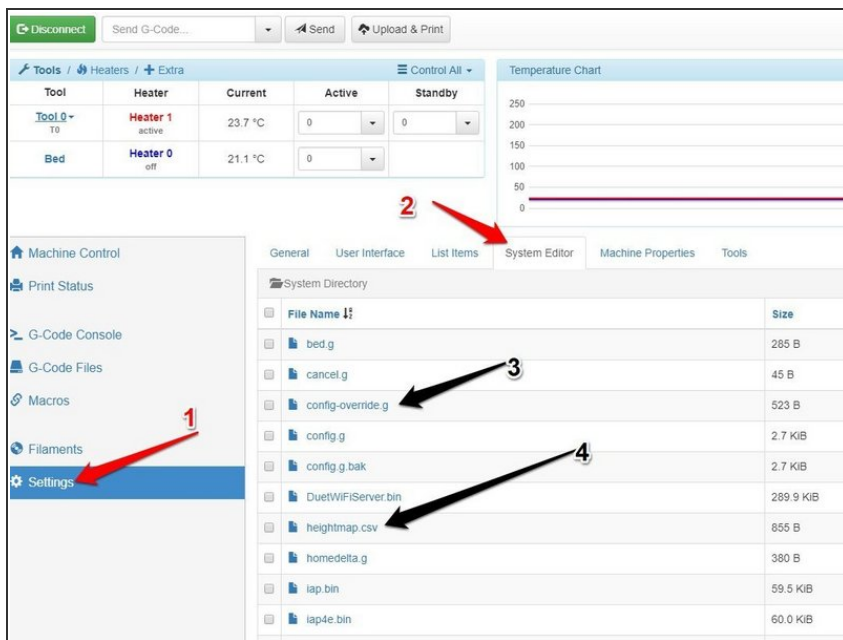
- Pull each ball joint, unsnapping the arm from the ball studs.
- Save arms just in case you need to return to a stock configuration.

Step 3 — Install Carbon Fiber Arms



- Snap all six new carbon fiber arms.
- Install the six white plastic ball springs.

Step 4 — Duet - Delete Old Files



- Connect to the printer and navigate to Settings>System Editor
- Delete the following files:
 - config-override.g
 - heightmap.csv

Step 5 — Update the config.g

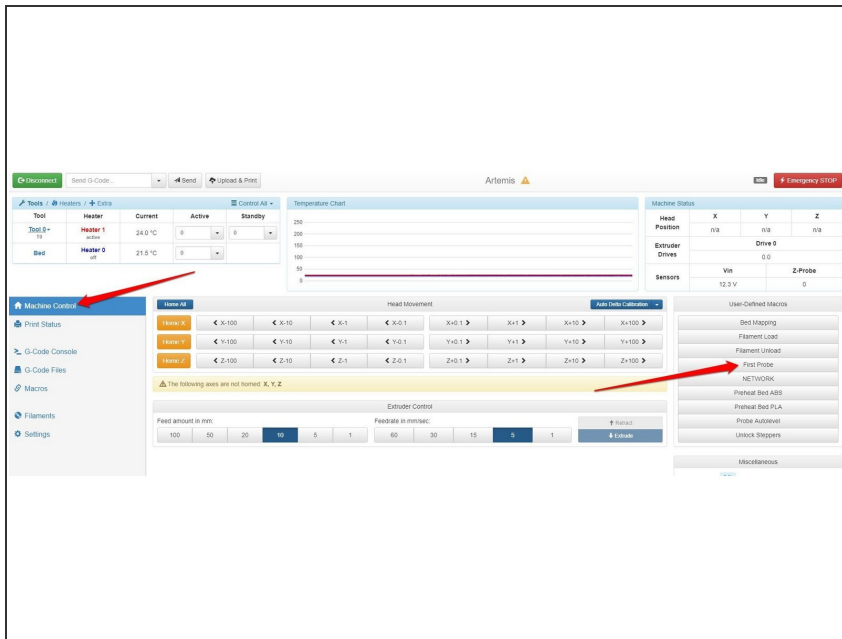
The screenshot shows the Duet Web Control interface. On the left, the 'Settings' icon is highlighted with a red arrow. In the center, the 'System Editor' tab is active, showing a list of files in the 'System Directory'. The file 'config.g' is highlighted with a red arrow. On the right, the content of 'config.g' is displayed. The line 'M665 R150 L340.5 B155 M530 X0 Y0 Z0' is highlighted with a red arrow, indicating the location where the L value should be updated.

- Settings>System Editor
- Edit config.g - locate line M665, usually about 10 or 12 lines down.
 - Artemis 300 set L to 340.5 (L340.5)
 - RostockMAX v3.2 AND v4 machines set L to 340.5 and H to 350.

⚠ If you do not change the H value, the machine will crash into the glass before being able to probe. The carbon fiber arms are longer than stock arms, shortening the max Z length.

- ⓘ The arm length value is a starting point. Although the arms are made in a precision jig, there may be variances and this value may need to be slightly adjusted if you are looking to print parts with specific size values. Adjusting and re-calibrating may be needed to tweak the final print size output.

Step 6 — Duet First Probe



- Save and reset, reboot, or power cycle the printer
- Prepare for probing by clearing the nozzle and print bed as usual
- Click the macro 'First Probe'
- Wait for completion.

Step 7 — Complete & Calibrated



⚠ Remember DO NOT use the button labeled "Auto Delta Calibration" Instead we use the macros we wrote.

⚠ Remember NEVER use software auto leveling in any slicing software. Auto leveling and calibration is performed by the firmware on ALL SeeMeCNC 3D printers.

- Remember when cleaning glass or changing a nozzle to use "Probe Autolevel" calibration macro.
- The "Probe Autolevel" macro calibrate your printer using SeeMeCNC developed g-code.