

Firmware upgrade to 3.6.0 RC1

Changes in firmware can be found

<https://github.com/Duet3D/RepRapFirmware/releases/tag/3.6.0-rc.1>

Release notes:

<https://github.com/Duet3D/RepRapFirmware/wiki/Changelog-RRF-3.x-Beta#reprapfirmware-changes-from-360-beta4-to-360-rc1>

Printer changes:

Fixed accuracy bug causing probe measurement points to offset by ~18mm from the correct location

Fixes to bed gantry levelling measurement point locations

New PanelDue Firmware for 3.6.x Compatibility and increased stability to DWC

New Homing Sequences

New machine build volume exclusion zone

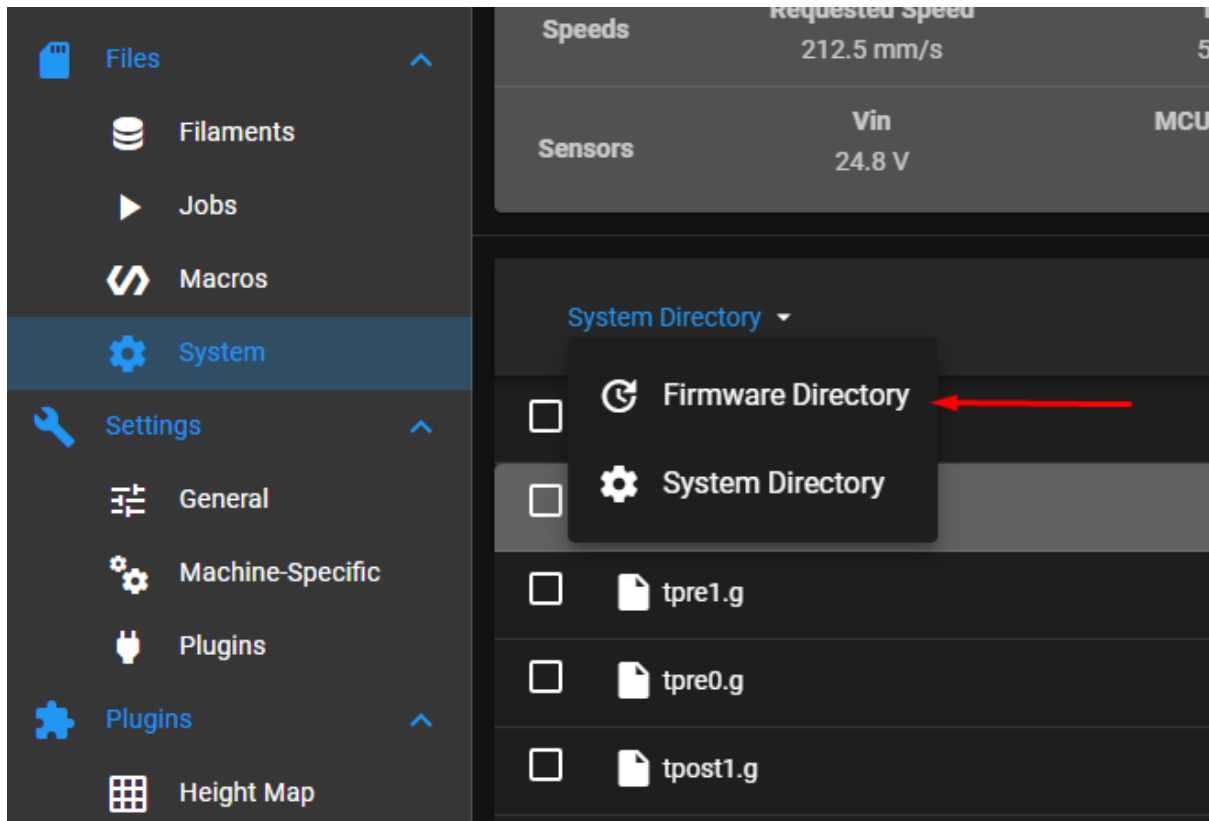
Notes:

Release candidates can have unexpected new behaviours. Bugs and Errors are uncommon but not unforeseeable. To help with the development of the firmware, please take a full copy of the error code. And if the WebUI is accessible, Send M122 in the console and copy the output.

Step 1: Updating the Panel Due screen firmware

Download the Panel Due screen firmware from: <https://github.com/Construct3D-AM/Construct-1/blob/master/Firmware/Panel%20Due/PanelDueFirmware.bin>

On the WebUI, locate the Firmware system Directory: /files/System/Firmware Directory

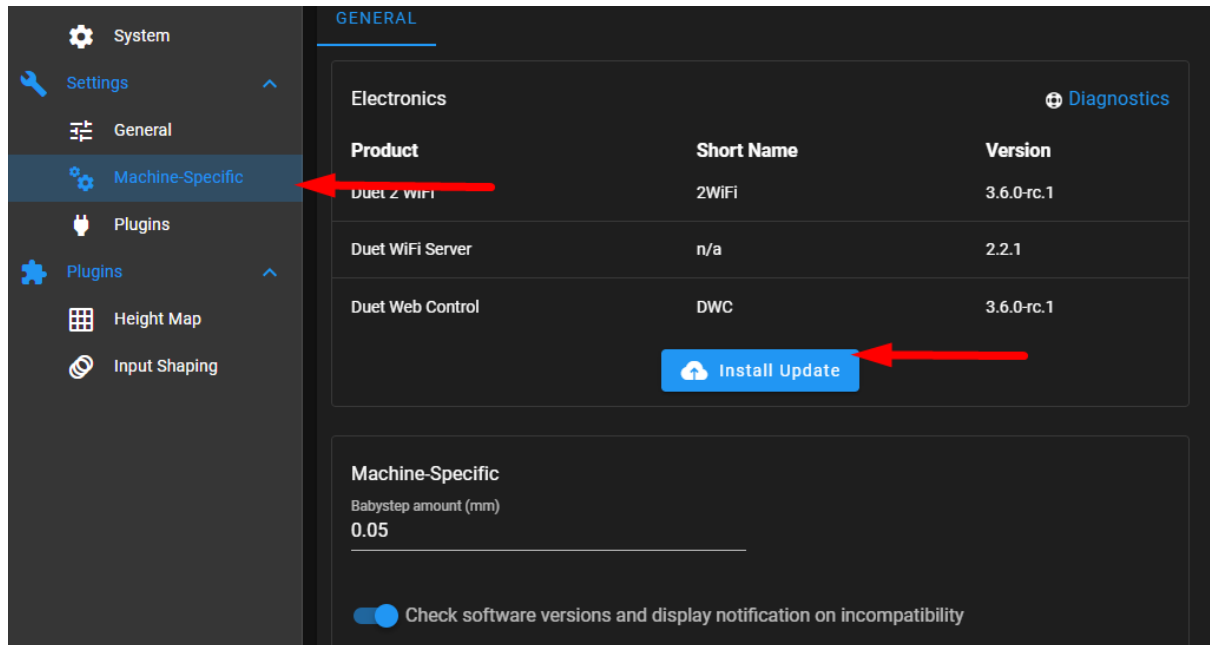


Upload the Panel Due firmware to the Firmware Directory and wait for the upload and install to complete.

Step 2: Updating the printer firmware

The firmware can be found here: <https://github.com/Construct3D-AM/Construct-1/blob/master/Firmware/Firmware%20Files/3.6.beta/Beta4%20RC1/Duet2and3Firmware-3.6.0-rc.1.zip>

In the Settings/Machine tab (machine specific) , you can update the entire machines firmware by simply installing the .Zip file from the GitHub Link



The printer will ask if you want to install the updates (including the wifi module if applicable), Press yes, and wait for the update to install. This can take a small while, so make sure not to turn the printer off during this process.

Step 3: System Config Changes

In Config.g please update the following:

Z probe X and Y values:

- G31 P800 **X12 Y-26**

Z-Probe Mesh Quality P value

- (C1 only) M557 **P7**
- (XL only) M557 **P9**

Axis Limits X and Y values:

- (C1 only) M208 **X227 Y260**
- (XL only) M208 **X328 Y370**

Input Shaping P and F values:

- M593 **P"EI2" F45**

(If the F value is above 35, then you can skip this stage)

Pressure Advance S value:

- M572 D0 **S0.012**

Step 4: Homing sequence changes

You can find the file directory here: <https://github.com/Construct3D-AM/Construct-1/tree/master/Firmware/Config%20Files>

Replace the following files:

- Bed.g
- Homeall.g
- HomeX.g
- Homey.g