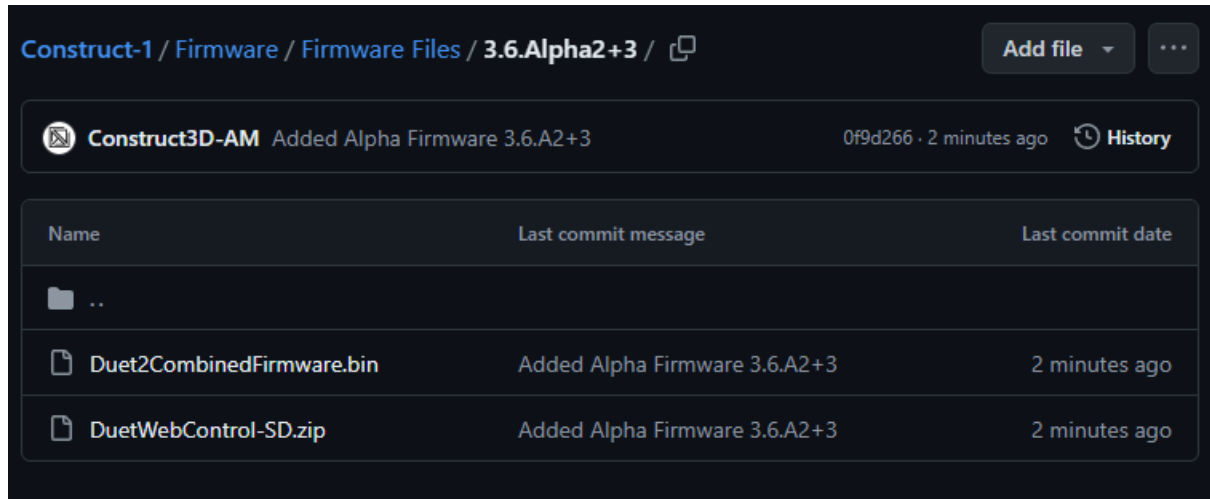


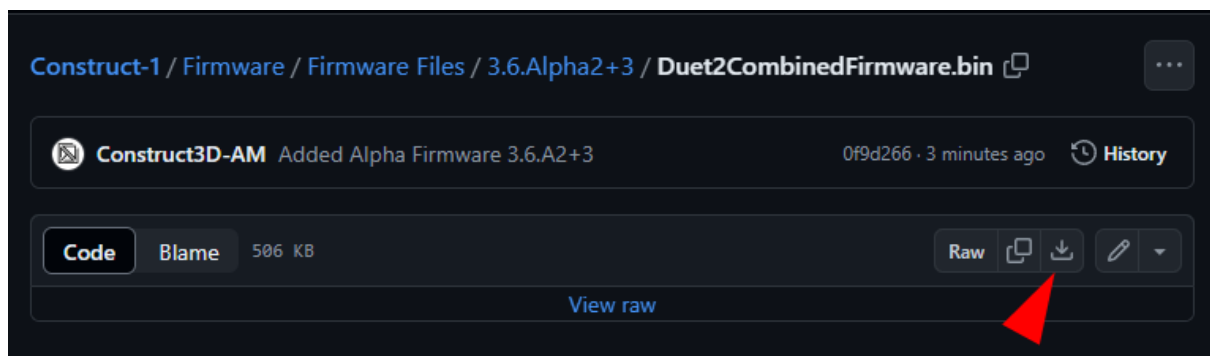
Instillation instructions updating printer firmware from 3.5.x to 3.6.Alpha2+3

Step 1: download printer firmware and WebUi updates

<https://github.com/Construct3D-AM/Construct-1/tree/master/Firmware/Firmware%20Files/3.6.Alpha2%2B3>

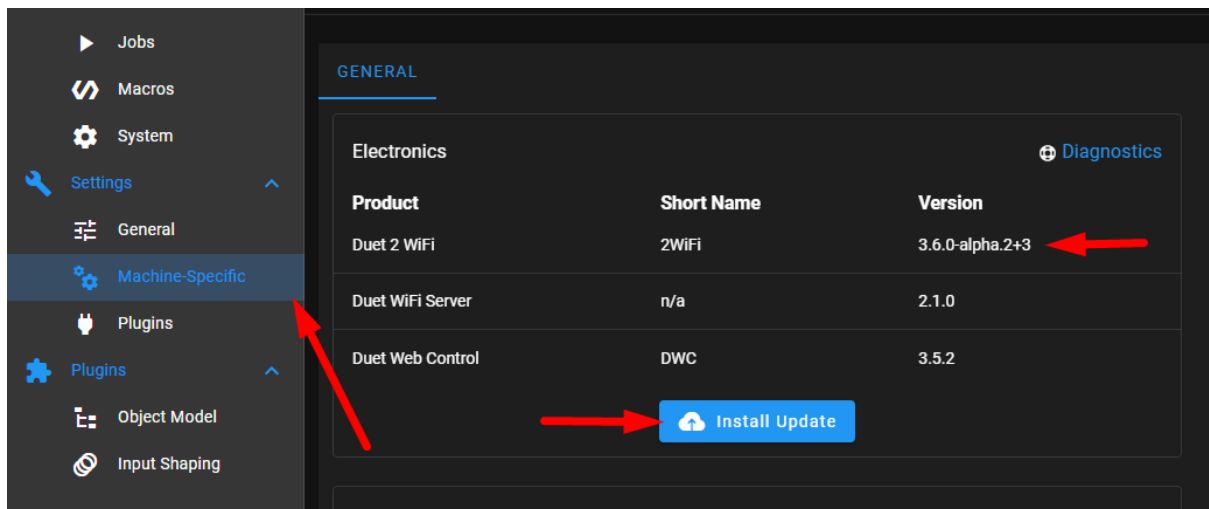


To download each file, click the file itself. Then in the top right “download raw file”

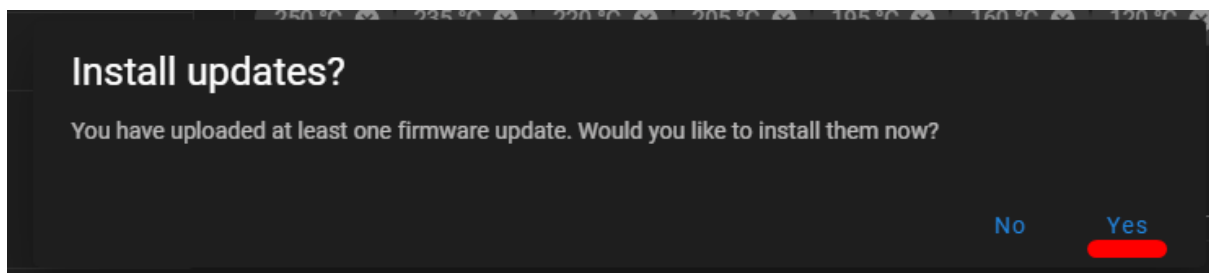


Step 2: Upload Duet2CombinedFirmware.bin

Upload the file by clicking the “install update” button in the “machine-specific” tab



Wait for the upload to finish, and when prompted finish the installation



When complete, the WebUI will need to be refreshed and you should now be able to see the version identifier has changed from 3.5.2 to 3.6.0-alpha2+3

Step 3 (optional): Upload DuetWebControl-SD.zip

The printer will work fine with the regular 3.5.2 web control, however every time you load the page you will be warned about an incompatibility. Uploading the new WebUI files will remove this warning.

Repeat the process in Step 2, but this time select the DuetWebControl-SD.zip

Once the .zip has been uploaded it will begin a installation process

Wait for this to complete.

Once this process is complete, refresh the WebUI

Step 4: Update Pressure Advance values

In the WebUI, go to “System -> Congif.g” and open the config.g file

Reduce the pressure advance number to roughly 0.015. It should look like the following:

➤ M572 D0 S0.015 ; pressure advance

Whilst a Pressure Advance value of S0.015 will yield good results, you could alternatively use Orcaslicer’s calibration tools to find the exact value for your materials.

Remember to save the file

Step 5: Checking and updating Input Shaper Values

In the Config.g, find your input shaper line of code. It will start with **M593**

Update the code to ensure that the **P"xxx"** Value reads **"E12"**

If the **F** value in the code is **below 35**, Change the **F** value to **50**

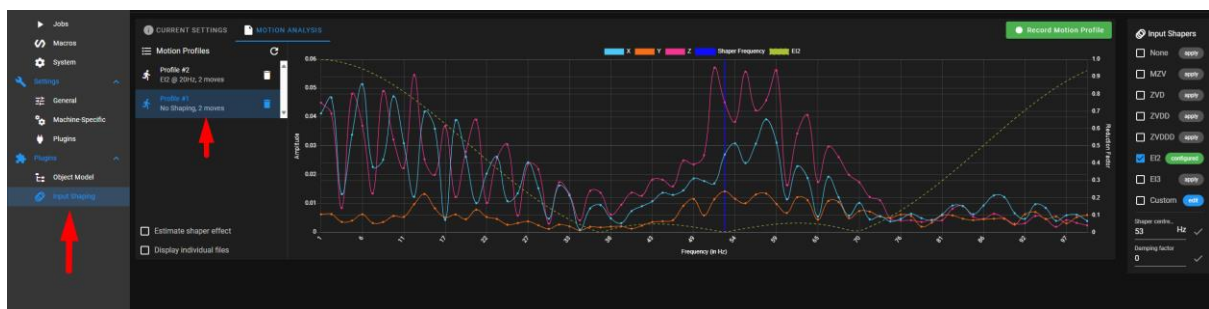
The L value is now ignored, and can be optionally deleted

It should look like the following

➤ **M593 P"E12" F50 S0.0; input shaping**

Alternatively

You can determine the exact F Value by going to the "plugins->inputshaping" tab in the WebUI.



Under the "Motion analysis" there should be two motion profiles, Select the profile that says "no shaping"

Look for the tallest spike above 30Hz. In this case we have 3 spikes (one at 50hz, 55hz and 60hz)

Your new F Value does not have to be exactly the same frequency as a spike, but it should be close.

In this case I would choose a frequency of 53Hz

Go back to Config.g

Update the input shaping **F** Value to match your printers specific requirements. In this case:

➤ **M593 P"E12" F53 S0.0; input shaping**

Remember to save the file