

FIRMWARE UPDATE

REVISION	DATE	DESCRIPTION	AUTHOR
A01	04/25/16	Initial Release	VC
A02	11/01/16	Updated version for X400 & instructions for Arduino	AH

> INTRODUCTION

This document is intended to walk the reader through the necessary steps to update the firmware on their German Rep Rap Machine. The latest version of the firmware, from the release of this document, for each machine are as follows:

Machine	Firmware Version
Protos V3	2.2
X400 CE/Pro/V3	2.2.1
X350 Pro	3.1
X1000	3.1

> SETUP

In order to change the firmware, you will need a laptop (or a nearby desktop) with the Arduino software installed, the USB cable provided, and your machine.

1. If you have not done so already, you may download the Arduino software [here](#) (v1.0.6 is required, newer versions may not work).
2. Find the appropriate firmware for your machine [here](#). Download the zip folder and drag it onto your desktop.
3. Open the folder and double click on the "Repetier.ino" (Arduino Source Code) file. Not to be confused with "Repetier.h".
4. Go to Tools > Serial Port and make note of the COM ports that are displayed.
5. Plug the USB cable into a USB 3.0 Port on your computer and into the back of the printer. Turn the printer on.
6. Go to Tools > Serial Port and select the new COM port listed. It should be the only COM Port that was not there the first time you checked.
7. Go to Tools > Board and make sure that the "Arduino Mega 2560 or Mega ADK" is selected.
8. Click the check mark to Verify the firmware. Then click the arrow to Upload the new firmware.
9. Once done uploading, unplug the USB from the printer.
10. Power cycle the printer and watch the LCD to ensure the newly uploaded firmware number flashes in the startup menu.