CH341 programmer "black" voltage modification

Reasons of voltage modification:

The "black" edition of this programmer is equipped with a 3.3 volts voltage regulator which allows to lower the 5 volts coming from the USB socket.
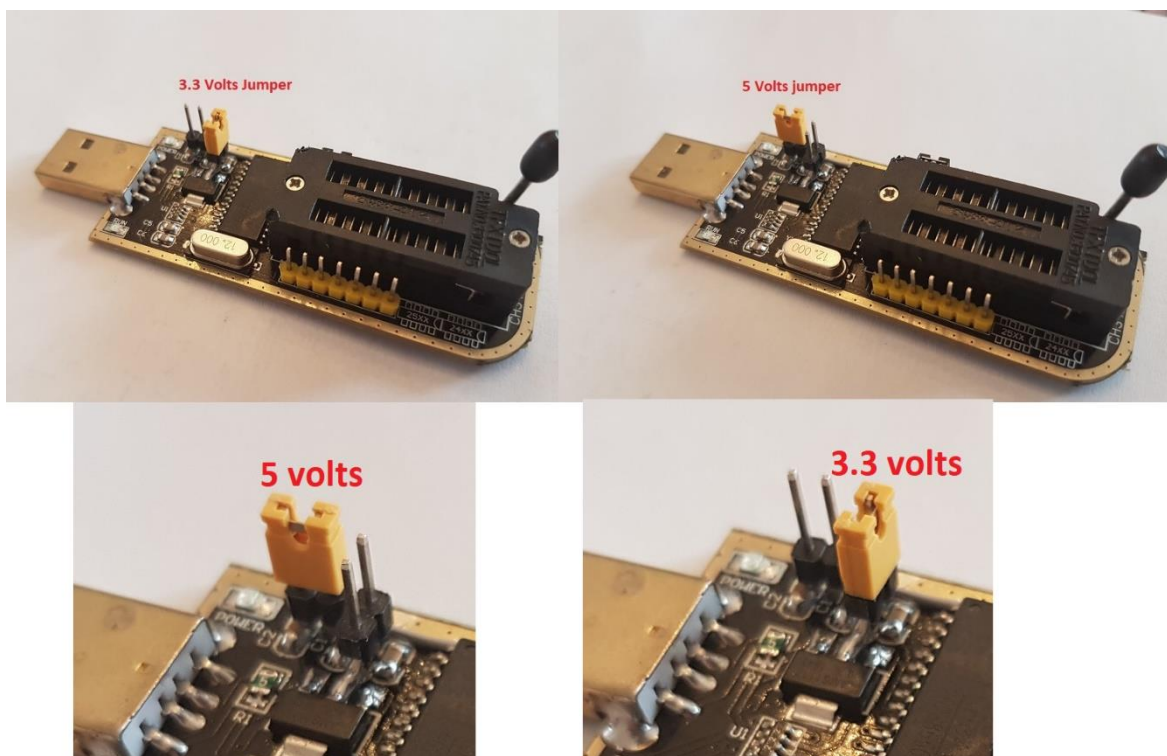
The VCC voltage of ZIF socket is 3.3 volts, however CH341A and pins voltage is 5 volts, most of the time there is no consequences.

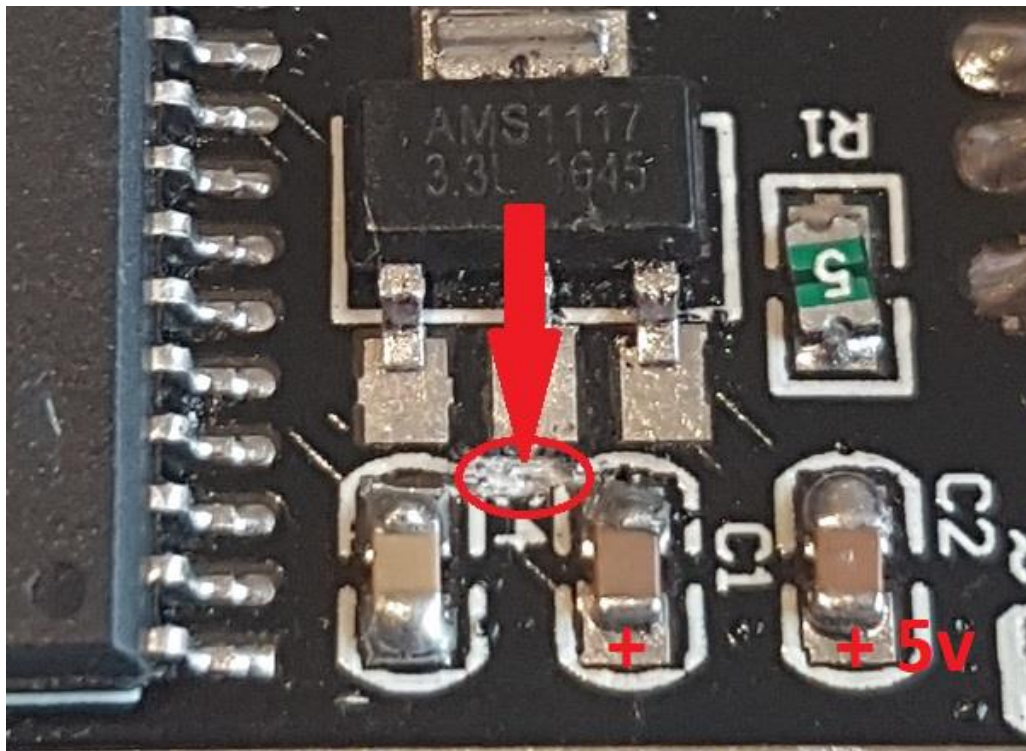But it can cause malfunctions with few components which are not voltage tolerant. (XTX Spi flash for example).

There are also components which do not operate at 3.3 Volts and which must be supplied with 5 Volts.

This document will guide you to modify our programmer so that it will have dual selectable voltage, 3.3 and 5 volts.
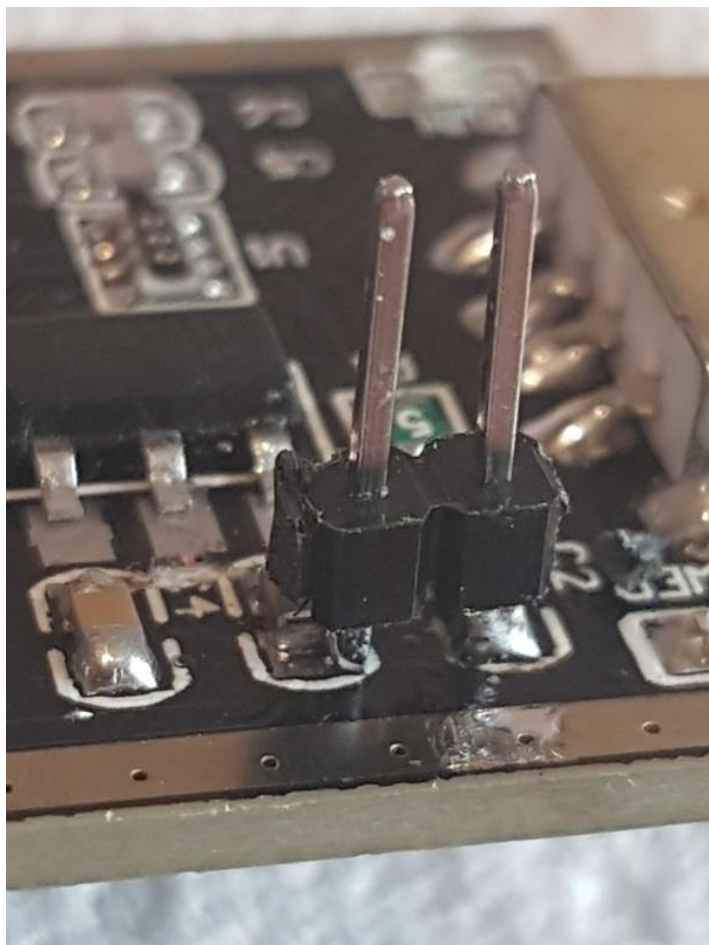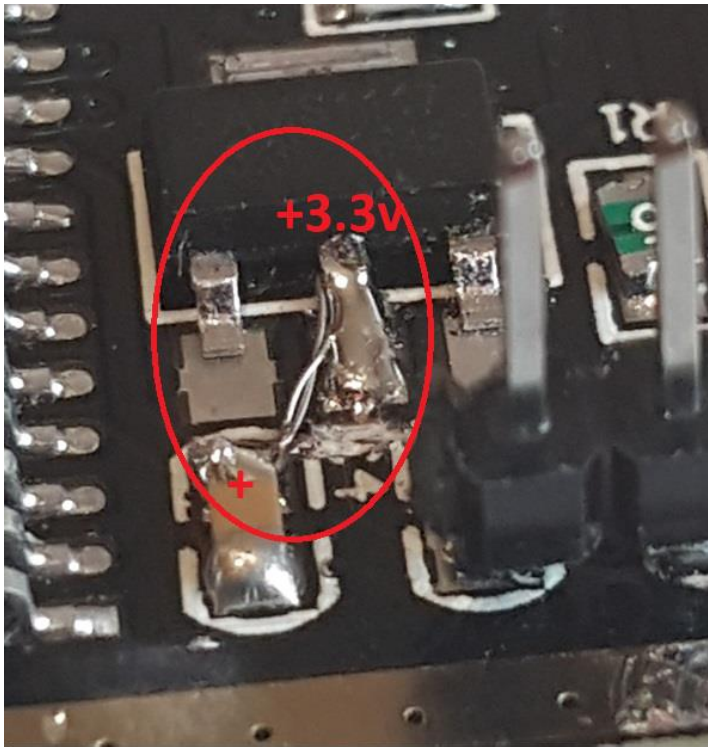
Once finished:

Cut the copper link that connects the 3.3 volts output to the + of capacitor C1.
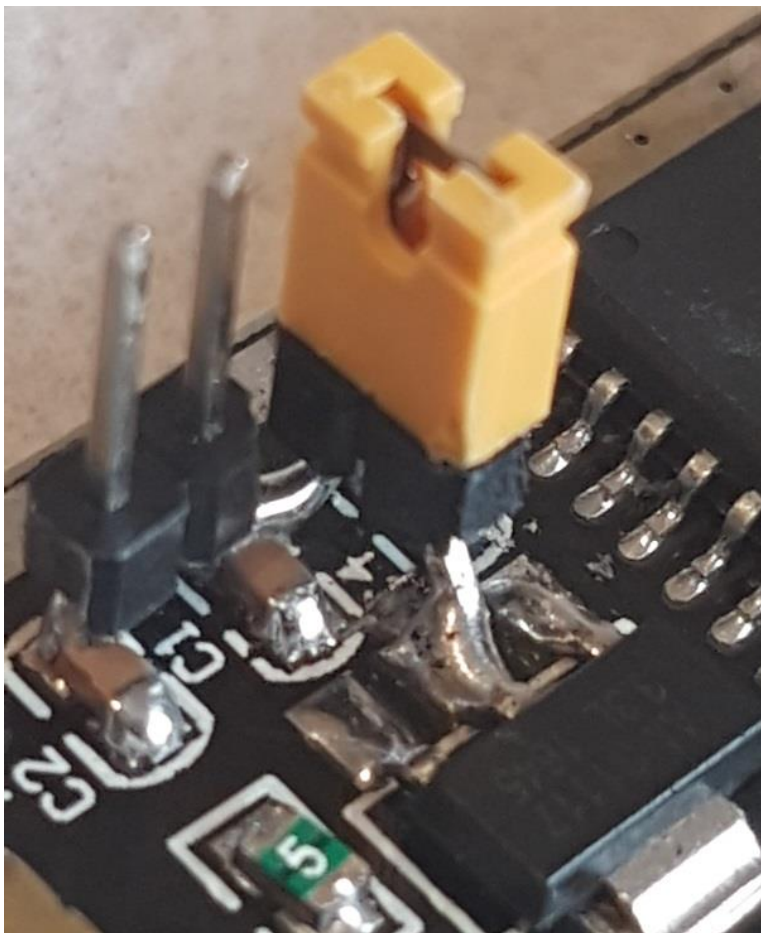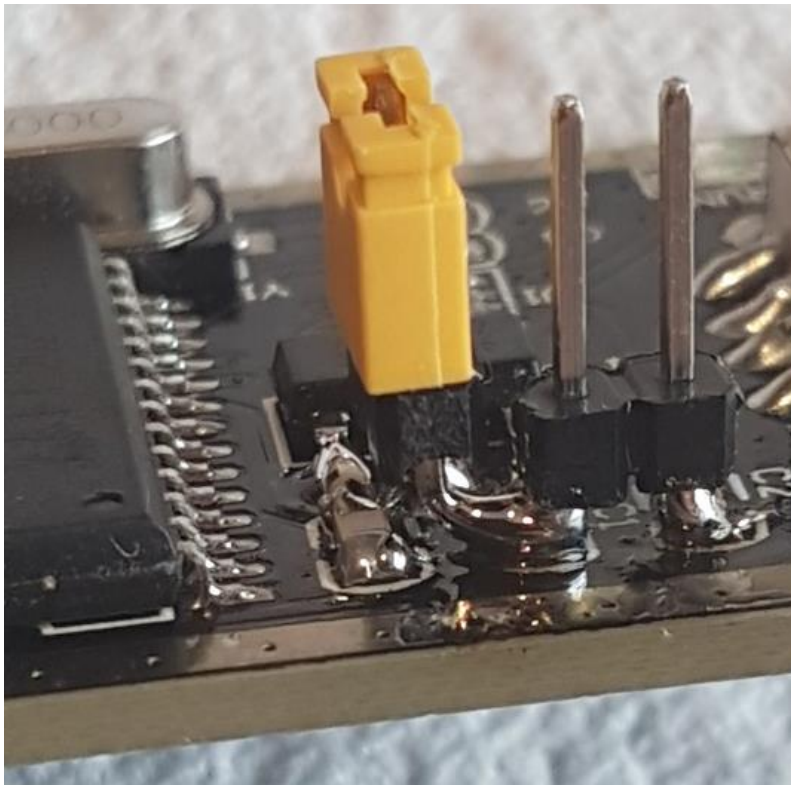

Solder a jumper (C2 side)

Connect 3.3 volts output of voltage regulator to + of C4
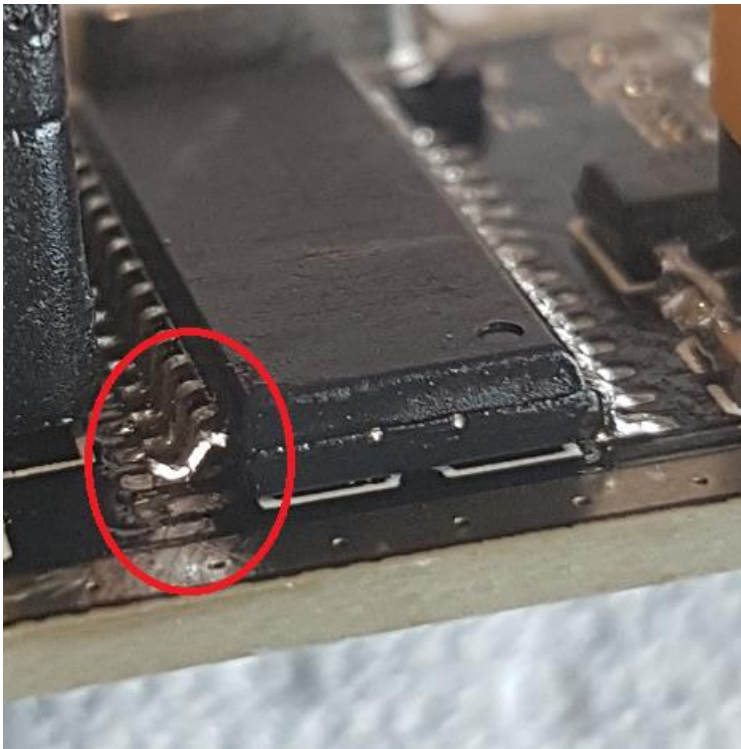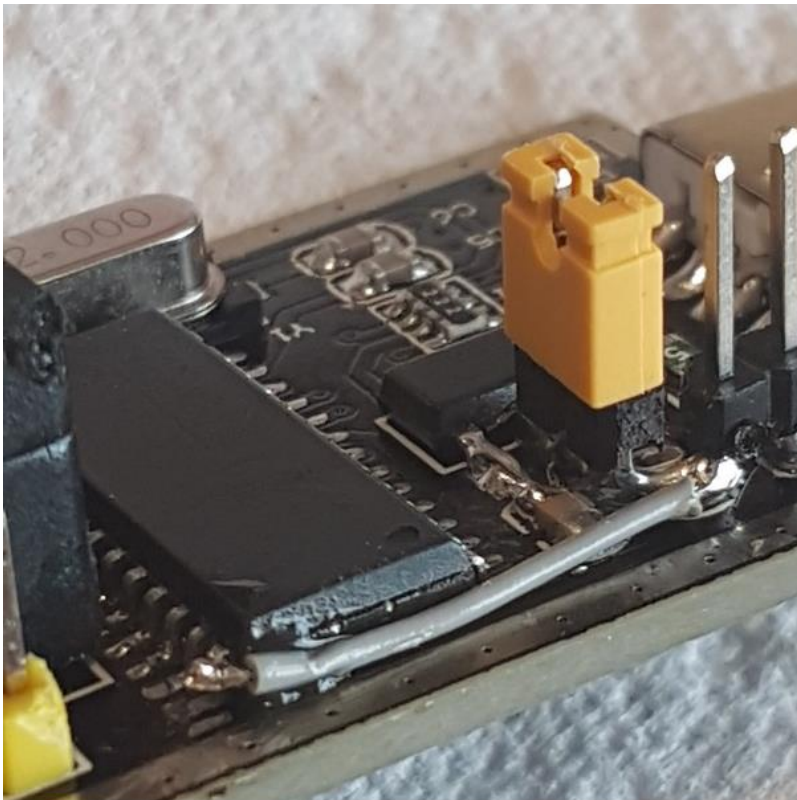

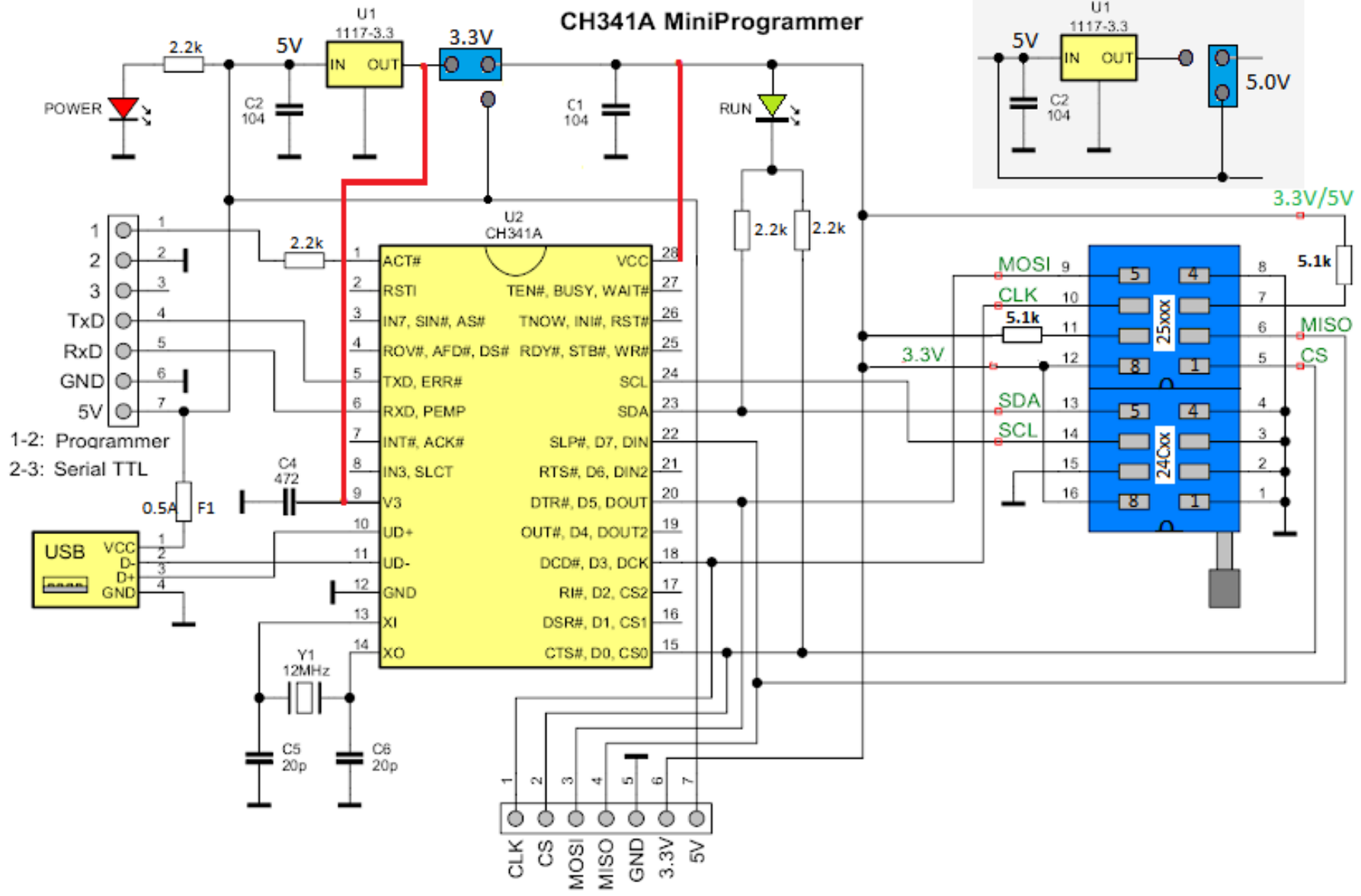Bend a jumper pins as shown:

Put it in place once correctly bent.

Carefully lift pin 28 from CH341A.

Solder a wire between the raised pin and the common point of the two jumpers.

END.

CH341A MiniProgrammer

Tools: