"black" CH341 programmer 3.3volts modification (simple)

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.
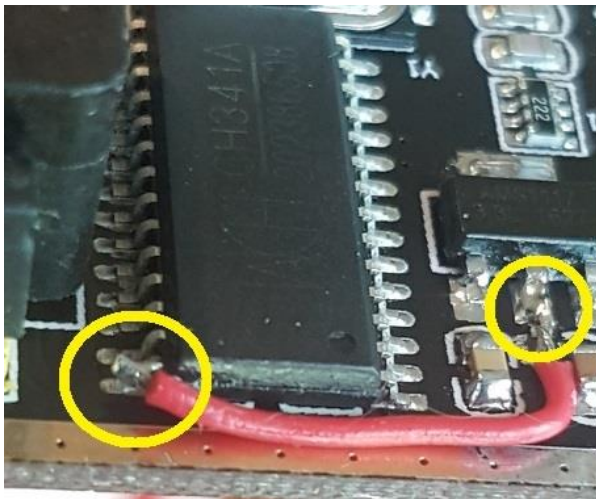
The VCC voltage of ZIF socket is 3.3 volts, however CH341A and pins voltage is 5 volts, most of the time there is no consequences.

But it can cause malfunctions with few components which are not voltage tolerant. (cFeon, XTX, XMC Spi flash for example).
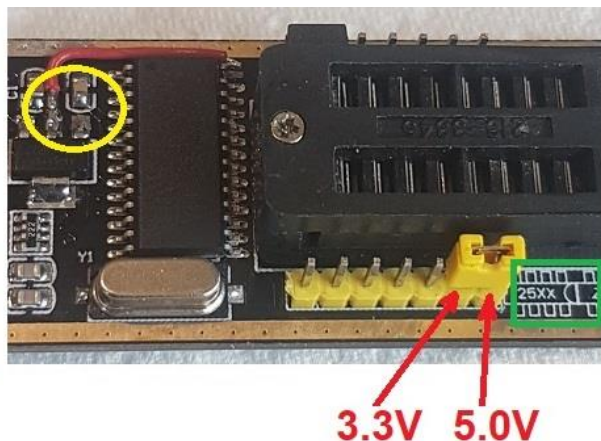
There are also components which do not operate at 3.3 Volts and which must be supplied with 5 Volts.

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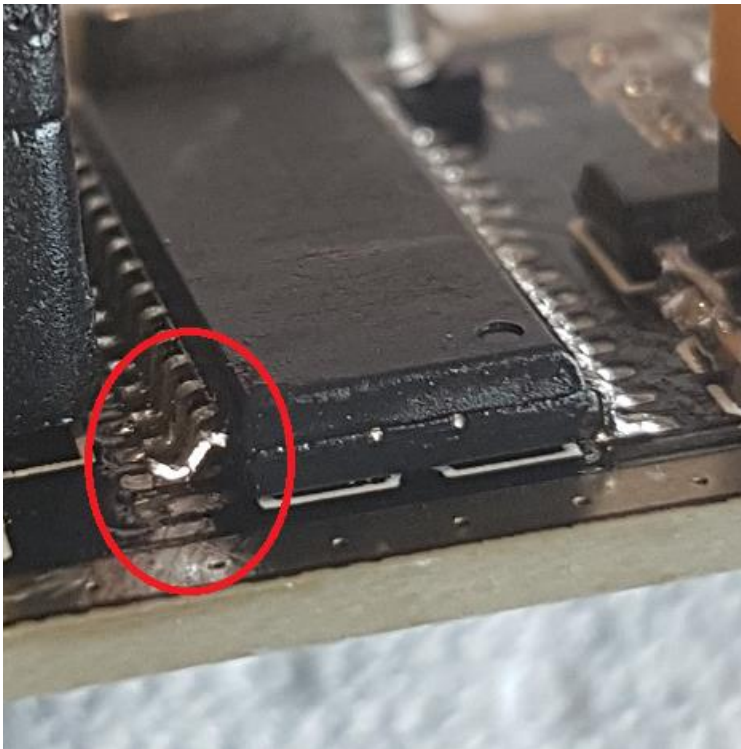
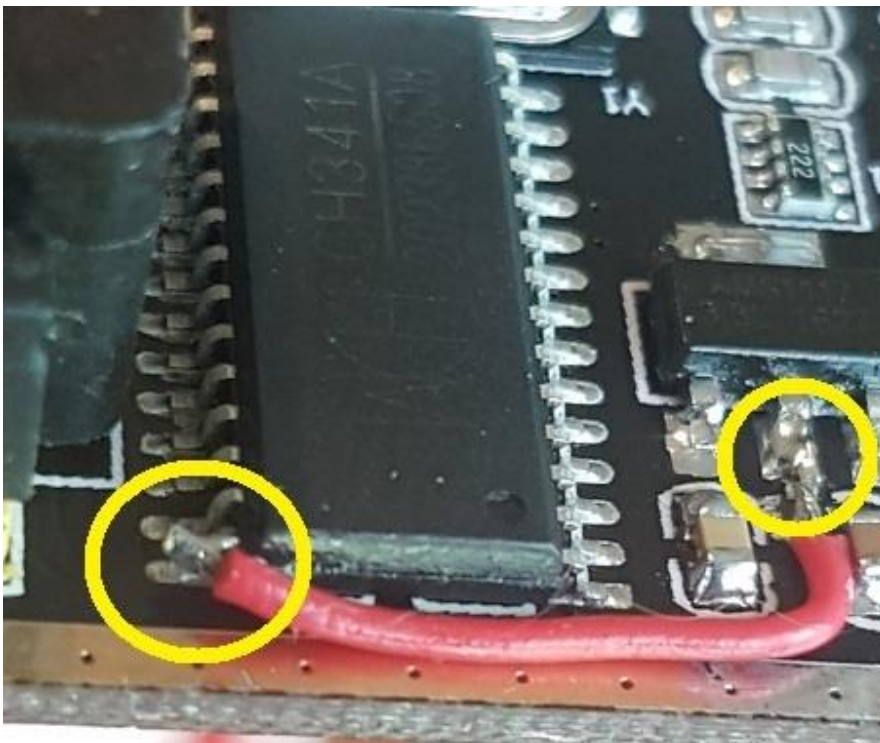Once finished:

3.3V modification

For 5.0v, just put a jumper as shown.

3.3V modification : Carefully lift pin 28 from CH341A.

Solder a wire between the raised pin and the central pin of 3.3V regulator.

!!! DO NOT CONNECT 3.3V TO PIN 9 OF CH341 otherwise the CH341 will burn in 5.0v selection. !!!

END.