



Change the voltage converter

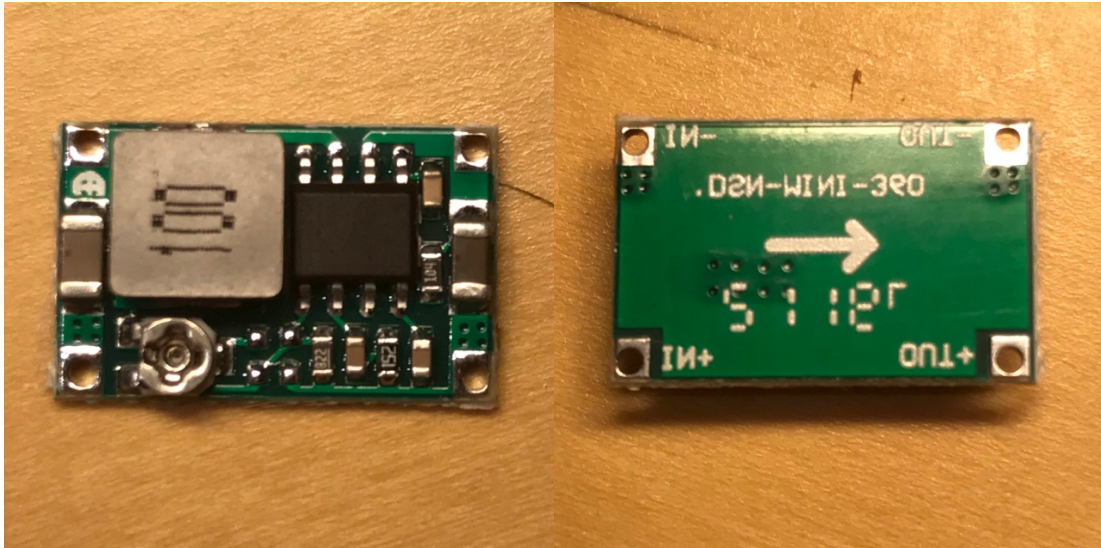
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I. General

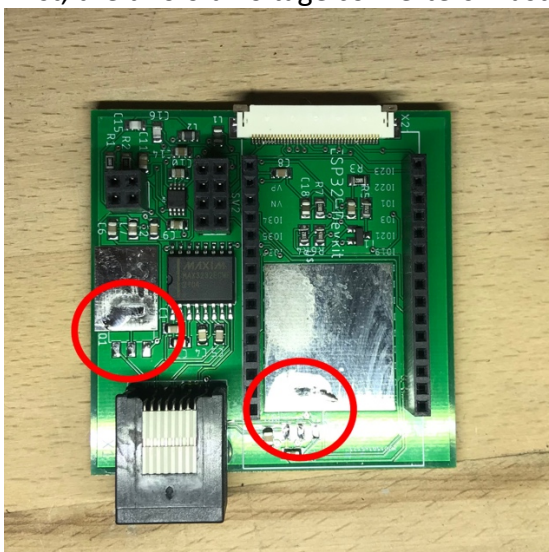
The FreeVario is operated with 12V. One voltage converter has to reduce this 12V to 3.3V and another to 5V. With the voltage converters used, there are apparently batches that get too hot and the result is that the FreeVario crashes in flight or only the sound can be heard. Problems arise especially on hot days with cockpits that are quite tight. To remedy this, the voltage converters can be exchanged for these:



The voltage converters can be obtained from the FreeVario shop or from Ebay (<https://www.ebay.de/itm/184069513638>).

II. Conversion instructions

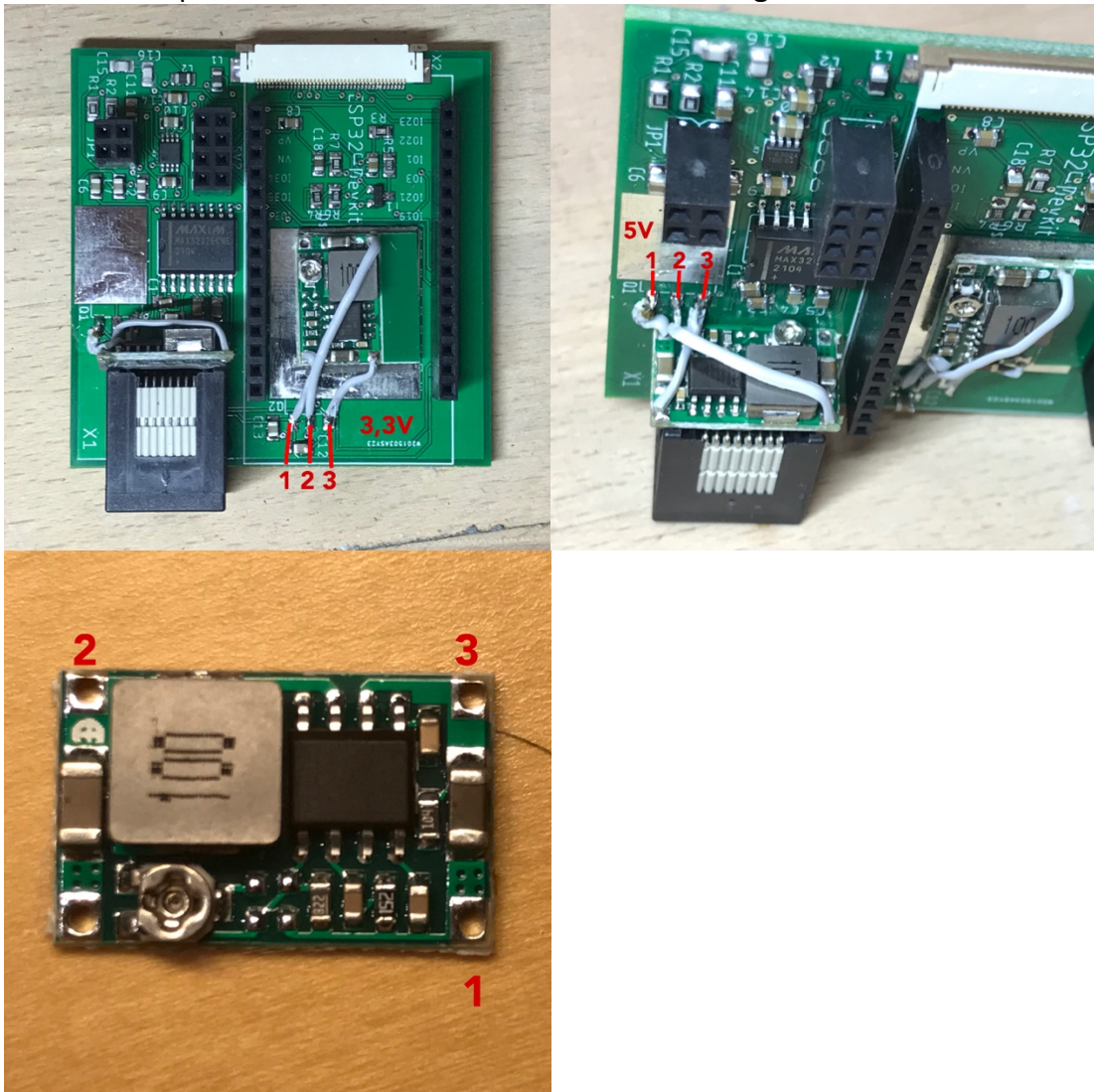
1. First, the two old voltage converters must be unsoldered with a hot air soldering iron.



2. Now solder cables to connections 1 and 3 of the voltage converter and connect the voltage converter to one of the aircraft batteries. With a small screwdriver and a

multimeter, the potentiometer can be used to set the output voltage. One of the two voltage converters is set to 3.3V and one to 5V. That takes a little skill and patience. Small angles of rotation change the voltage by a few tenths of a volt. **Do not confuse the voltage converters!**

A cable can now also be soldered to connection 2 of the voltage converter that has been set. Use a silk cutter to cut off the protruding solder points on the underside as best you can. Stick a thick, double-sided adhesive tape filled with a foam to the underside of the voltage converter. Now stick the voltage converter to the board as shown in the photos. **Do not confuse the 3.3V or 5V voltage converter!**



3. Finally shorten the cables to fit and carefully solder them to the appropriate contacts. That means 1 on 1, 2 on 2 and 3 on 3.