

Instructions on soldering 270 Ohm SMD resistor to RC EYE One Xtreme Flight Control PCBA (FC)

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RC Logger Service Desk, Xtreme_SMD_ml_270614

Effect of this hardware modification

Allows MCU to drop its voltage faster after battery has been removed or not connected correctly (removed and reconnected too fast). This modification has been added to address the known issue where one side of motors may not start consistently or fail to start randomly.



Before you proceed, please read the complete instructions below!

CAUTION



Only perform this task if you have the ability to solder SMD components onto a PCBA. If you are not confident to perform this modification or do not possess this skill, we strongly recommend you to contact us via our [online support desk](http://support.rclogger.com) (<http://support.rclogger.com>) to process this for you under our Firmware V31 upgrade program.



Please protect yourself and your workplace against ESD before working on sensitive electronic components including circuit boards!

General information concerning ESD and protection against electronic discharge can be found [online here](#)!

Product Warranty

Please take note that your product warranty may be void if you perform any electronic or electro-mechanic repair works on any RC Logger product by yourself or any non authorized RC Logger service partner. You accept these terms and are responsible for any such loss of product warranty as soon as you modify or repair any RC Logger product on our own account. For any further questions kindly refer to the products operating instructions and to RC Logger's [warranty policy](#).

Material required

- 1 x 0805 270 Ohm SMD resistor
- RC EYE One Xtreme flight control PCBA (removed from Xtreme by following [this online tutorial](http://www.youtube.com/watch?v=aopgLTZ4fe4) (<http://www.youtube.com/watch?v=aopgLTZ4fe4>))
- Proper soldering tools
- ESD Tweezers or similar
- Digital Multi-Meter (DMM; optional)

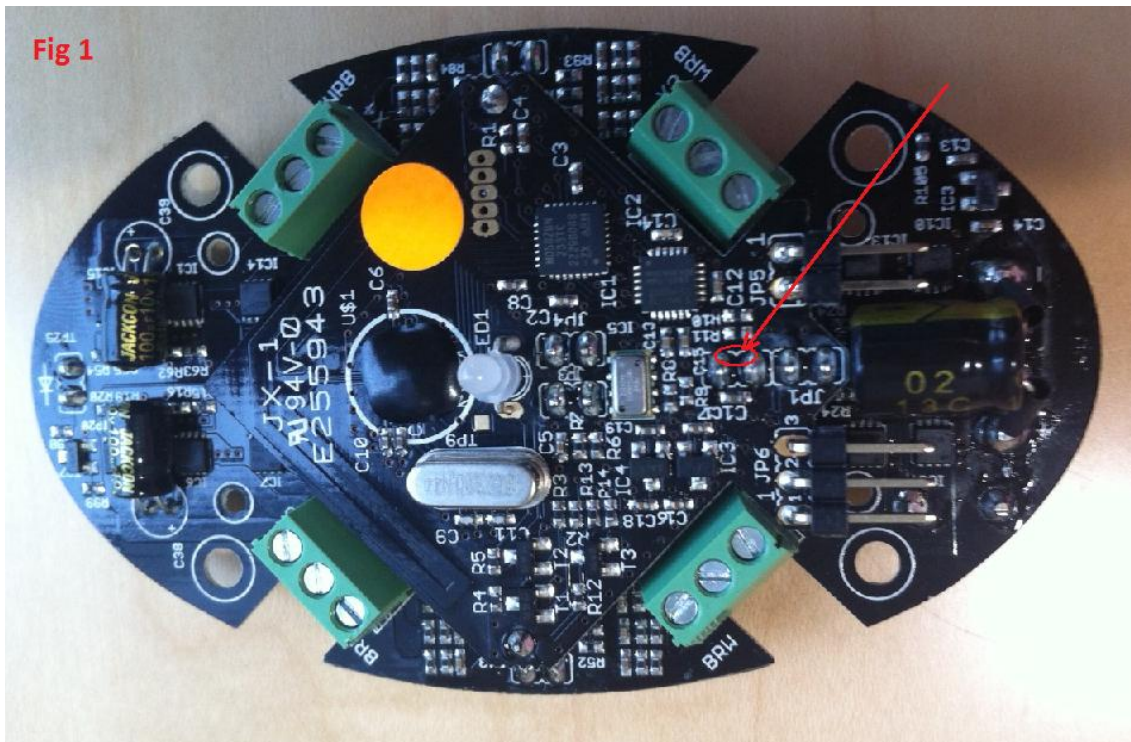
Note: Although a DMM may not be compulsory required, it is still recommended to verify the repair work after the resistor has been installed and prior to installing the FC back into the frame and connecting the flight battery!

Procedure

1. Gently solder the SMD resistor (0805 270 Ohm) between the solder joints in the specified location in Fig 1.

Warning: Make sure to identify the correct location where the SMD resistor must be placed. Any other location may damage your FC permanently!

Warning: Do not overheat the SMD resistor or PCBA as this may damage the component or FC permanently!



2. After carefully soldering the resistor, use a Digital Multi-Meter (set DMM to resistance measurement) to check if the resistor is correctly soldered.

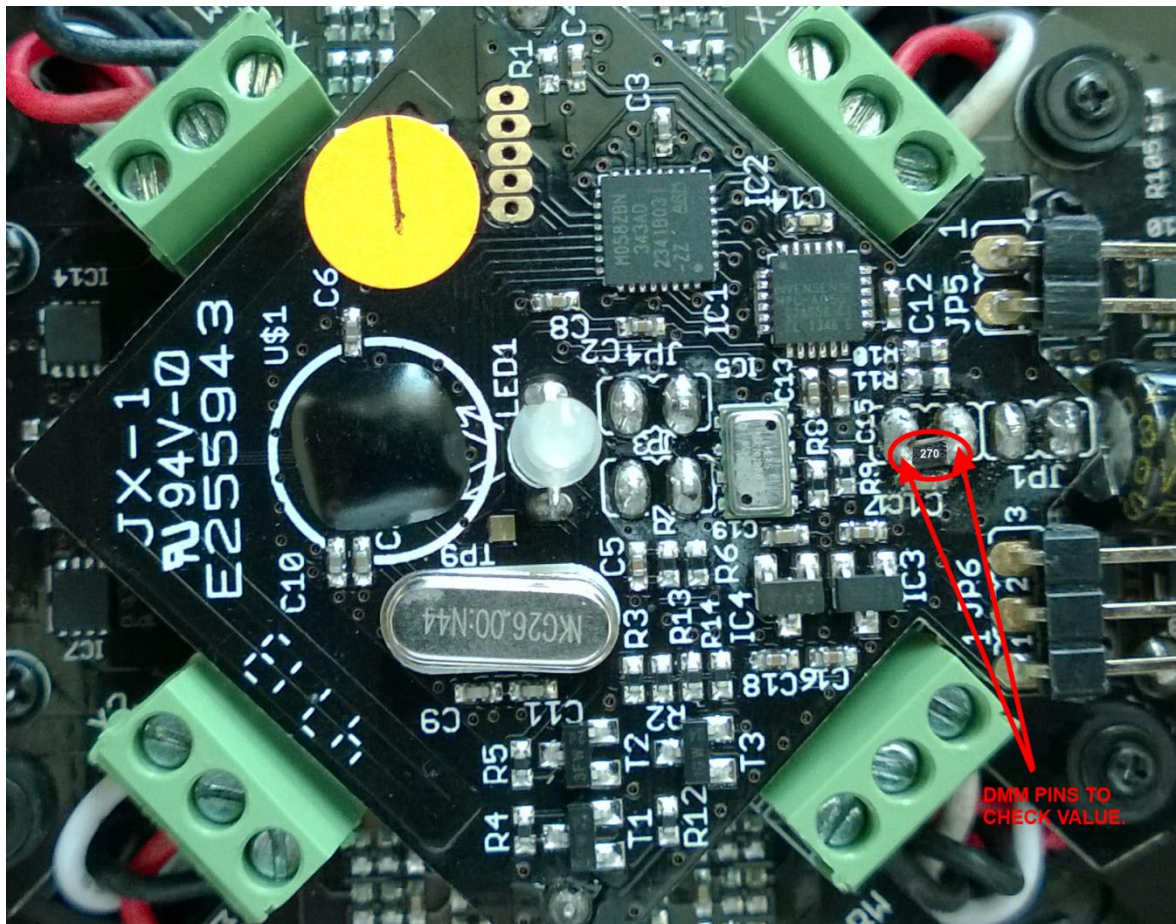
The Digital Multi-Meter should display 270 Ohm (+ /- 1%). If the resistor is incorrectly soldered, the multi-meter will show either a too high or too low resistance reading. Please refer to your measurement device operating instructions for further guidelines as to how to perform correct resistor measurement.



Note: Make sure you contact the test points correctly, since there might be an isolation layer of flux covering the solder.

Note: Do not overheat the SMD resistor as this may damage the SMD component!

Illustration of completed task



For further inquiries or questions concerning this document, please consider visiting RC Logger's support ticket system at <http://support.rclogger.com> and opening a new ticket.

Thank you for choosing RC Logger products !