

Service Bulletin No 7/2022

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Date: 8.11.2022
Product: Daqu 3.0
Subject: Daqu showing wrong RPM value.

Revision History

The following table shows the revision history of this document.

Rev.	Date	Description
A	8.11.2022	Initial release.

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1 Effectivity

Daqu 3.0 serial numbers affected: 18880, 18881, 18882, 18883, 18884, 18885, 18886, 18887, 18888, 18889, 18890, 18891, 18894, 18896, 18897, 18899, 18901, 18903, 18909, 18910, 18912, 18917, 18918, 18931, 18936, 18937, 18945, 18947, 18950, 18951, 18952, 18955, 18961, 18962, 18964, 18965.

2 Purpose & Background

Daqu 3.0 (affected serial numbers in 1. section) has a hardware issue which results in showing wrong RPM value. There is a problem with the diode orientation and resistor position.

We offer two solutions:

- immediate replacement with a new unit, see section 4.1,
- service procedure (described in this document), see section 4.2.

3 Compliance

All Daqu 3.0 units which use Z channel for RPM with serial numbers listed in section 1 must be either replaced with a new one or repaired according to instructions bellow.

4 Solutions

4.1 Replacement of Daqu unit

For replacement contact:

- alenka@kanardia.eu,
- gtamse@kanardia.eu.

Please provide us with information listed bellow:

- Which S/N are you sending back,
- exact address where replacement Daqu shall be delivered,
- once new Daqu is delivered, we will organize DHL pickup for the faulty one, for this we also need contact person and phone number,

- pickup adress must be the same as delivery address,
- for return please use the same box as the delivered one.

4.2 Repair- service procedure

If you decide to do your own repair, please report the serial number of Daqu to gregor@kanardia.eu.

If the repair will not be successful, this does not void warranty. Warranty is still valid and you can request a new unit, see section 4.1.

Equipment and skills

For service procedure described in section 5, you need basic soldering skills.

Equipment needed for this service procedure is listed bellow:

- Allen key/wrench 2mm,
- soldering iron with sharp tip (1,2mm or thinner),
- hot air station (optional),
- soldering wire.

5 Instructions

1. Remove 6 screws on the side of a Daqu unit and lift the top housing. See Figure 1.



Figure 1: Position of screws, other three are on the opposite side.

- Working location is shown in Figure 2 (yellow square), components we will be working on are shown in Figure 3 (red squares).

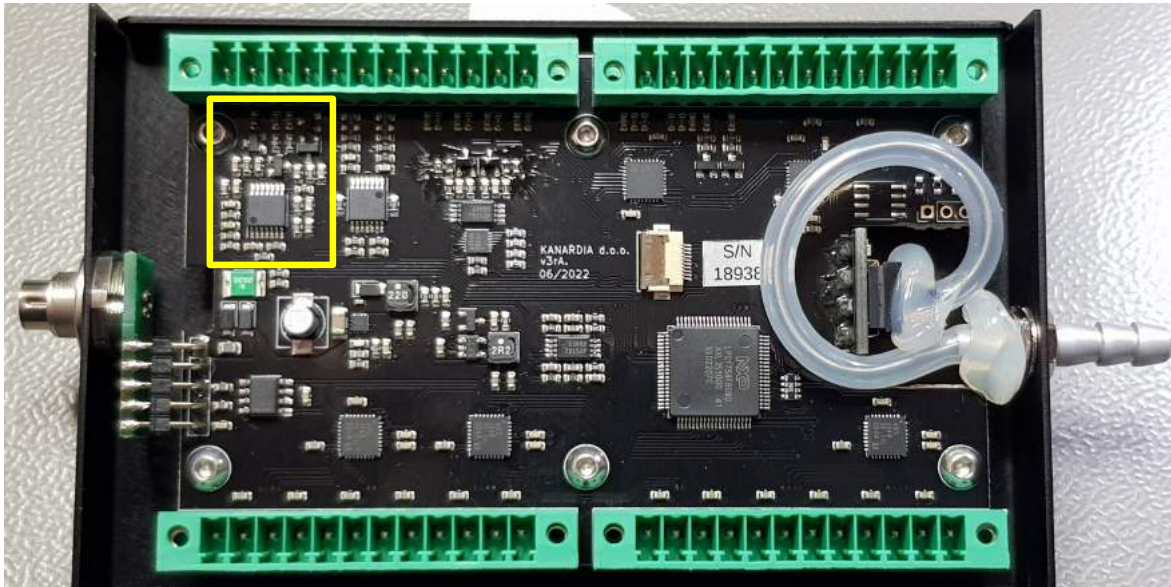


Figure 2: Yellow square shows location we will be working on.

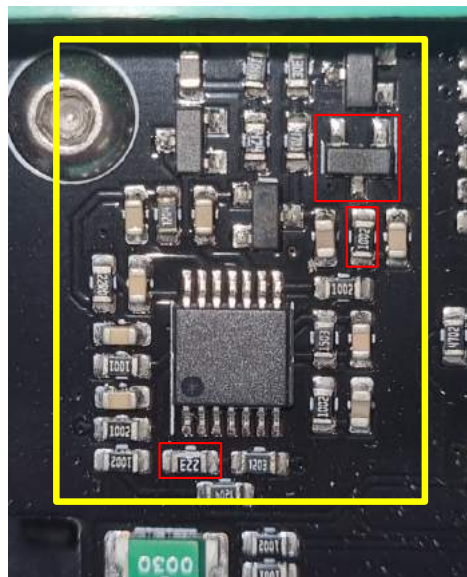
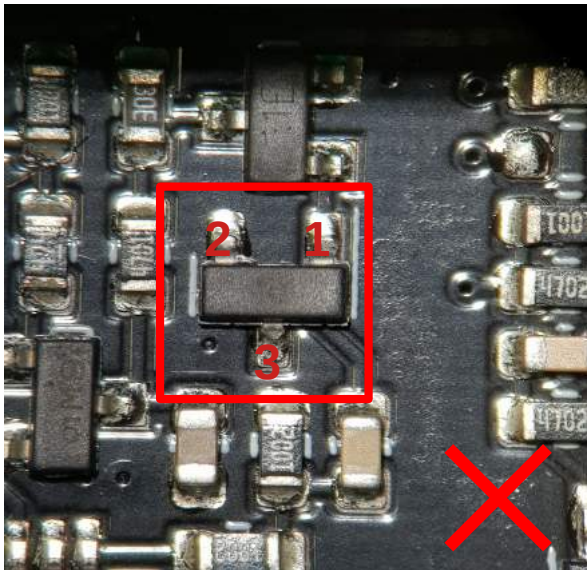
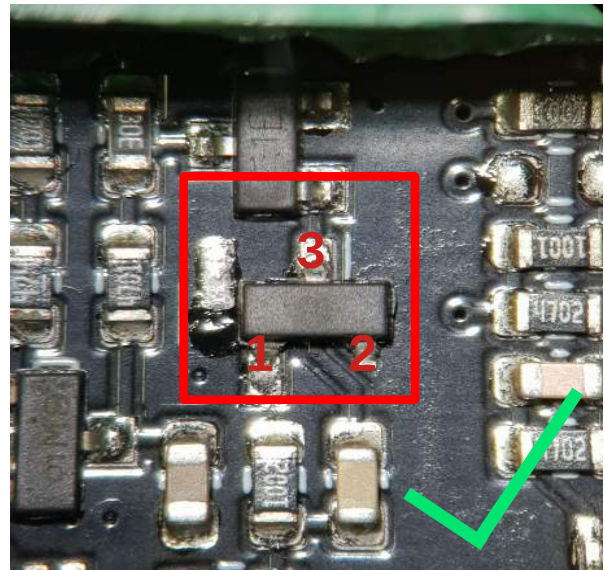


Figure 3: Red squares shows components we will be working on.

- Rotate diode for 180° as shown in Figure 4. Pin 2 is irrelevant and its not soldered.



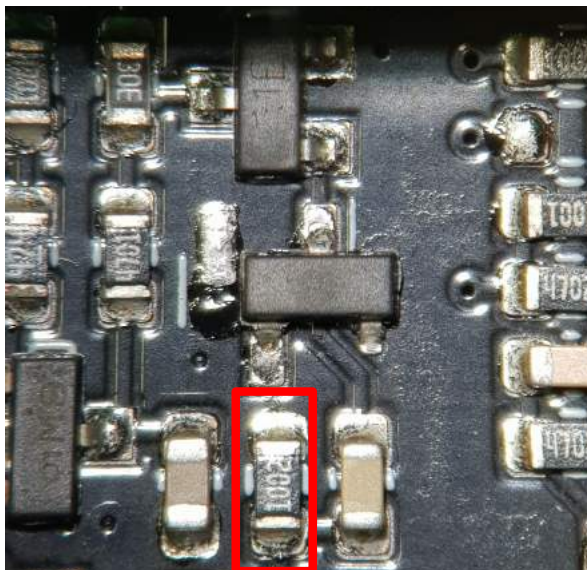
(a) Wrong position of the diode.



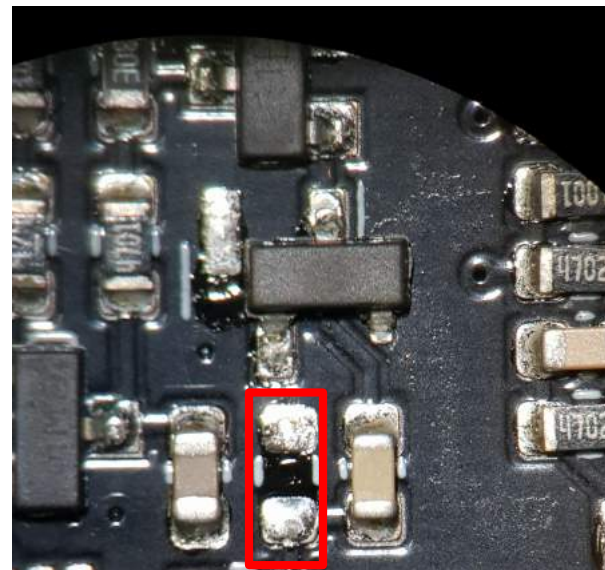
(b) Diode rotated for 180°.

Figure 4: Before and after photo of a diode.

4. Remove the resistor (10k) as shown in Figure 5 and save it for the next step.



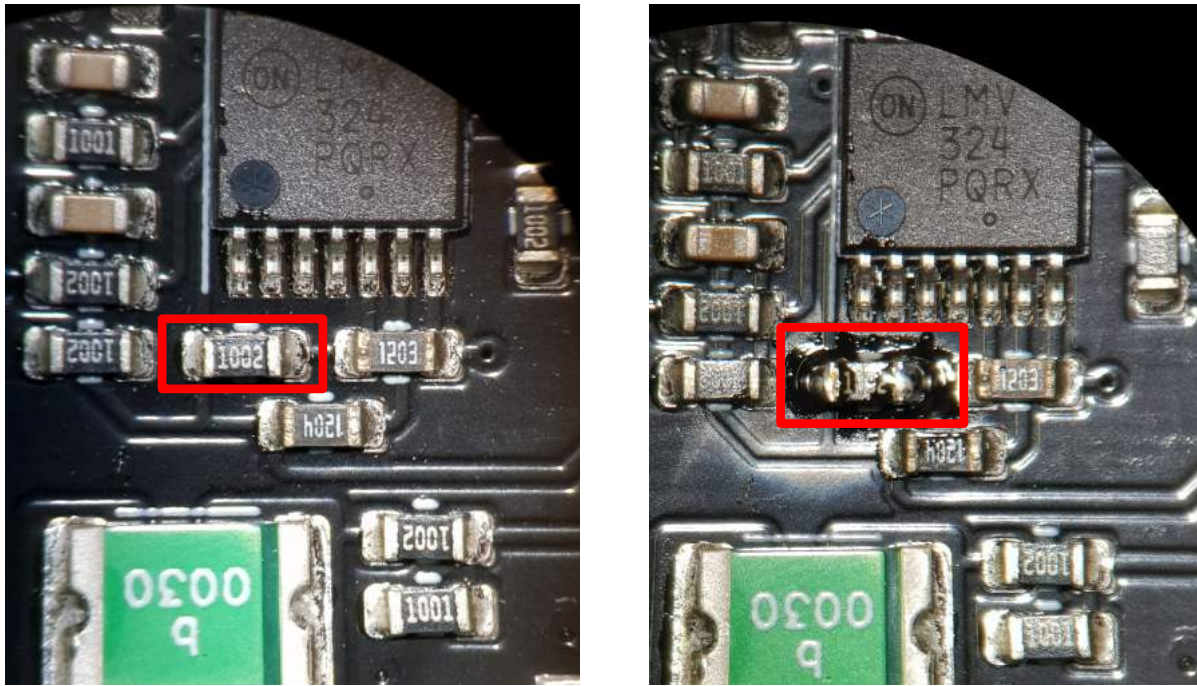
(a) Remove resistor in the red square.



(b) Resistor removed.

Figure 5: Before and after photo of removed resistor.

5. Solder/stake the previously removed resistor on top the resistor located in the red square as shown in Figure 5. Side view is shown in Figure 7.



(a) Position where to solder resistor.

(b) Resistor soldered on top.

Figure 6: Before and after photo of a resistors staked and soldered.

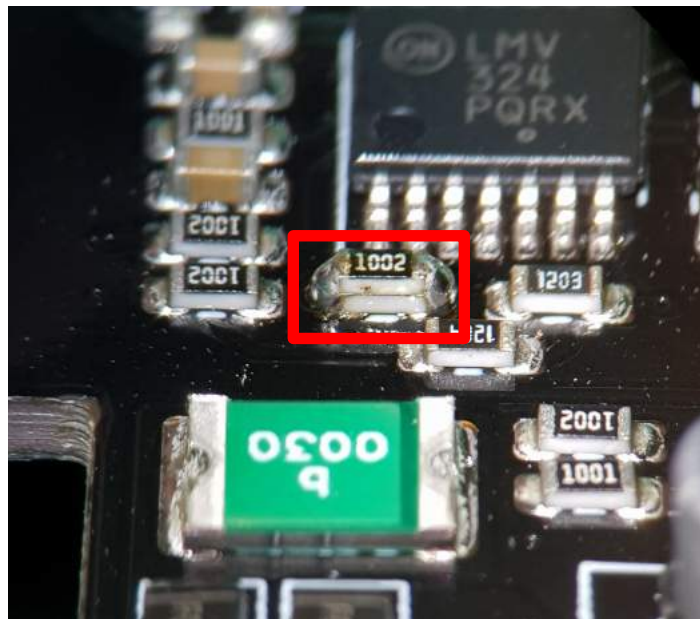
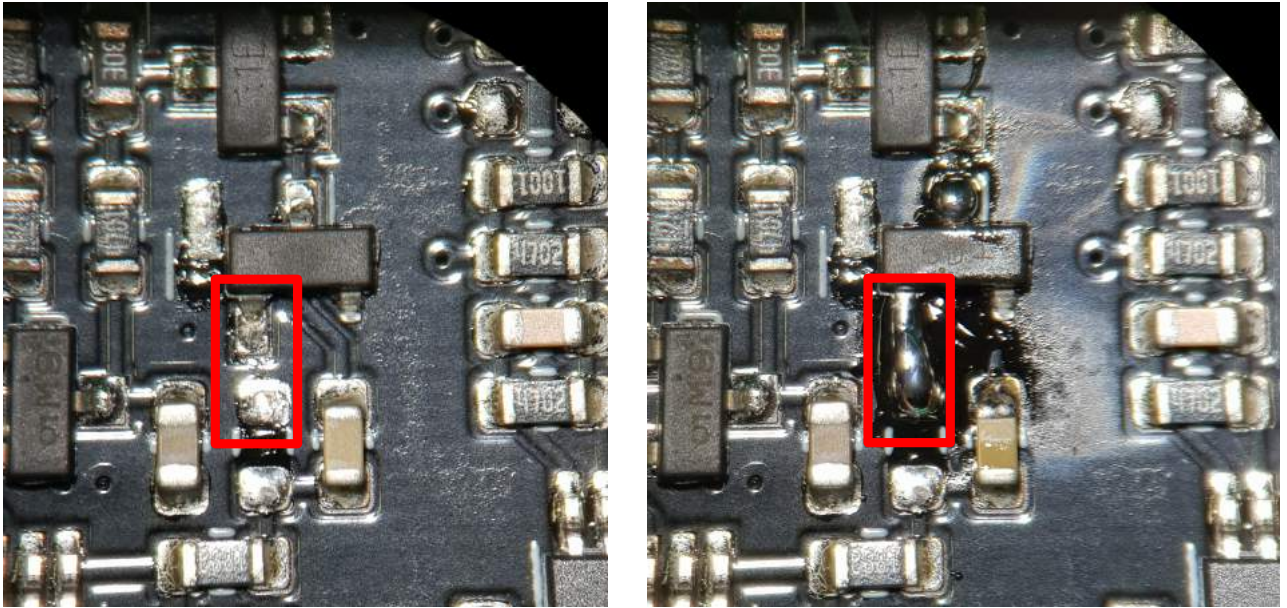


Figure 7: Side view of a staked and soldered resistors.

6. Connect and solder two pads as shown in Figure 8.



(a) Pads not connected.

(b) Pads connected.

Figure 8: Connect two pads inside a red square with soldering.

6 Additional Instructions

Weight and Balance: Not affected.

Manual: Not affected

Repetitive Inspections: Not required

Continuing Maintenance: Not required.