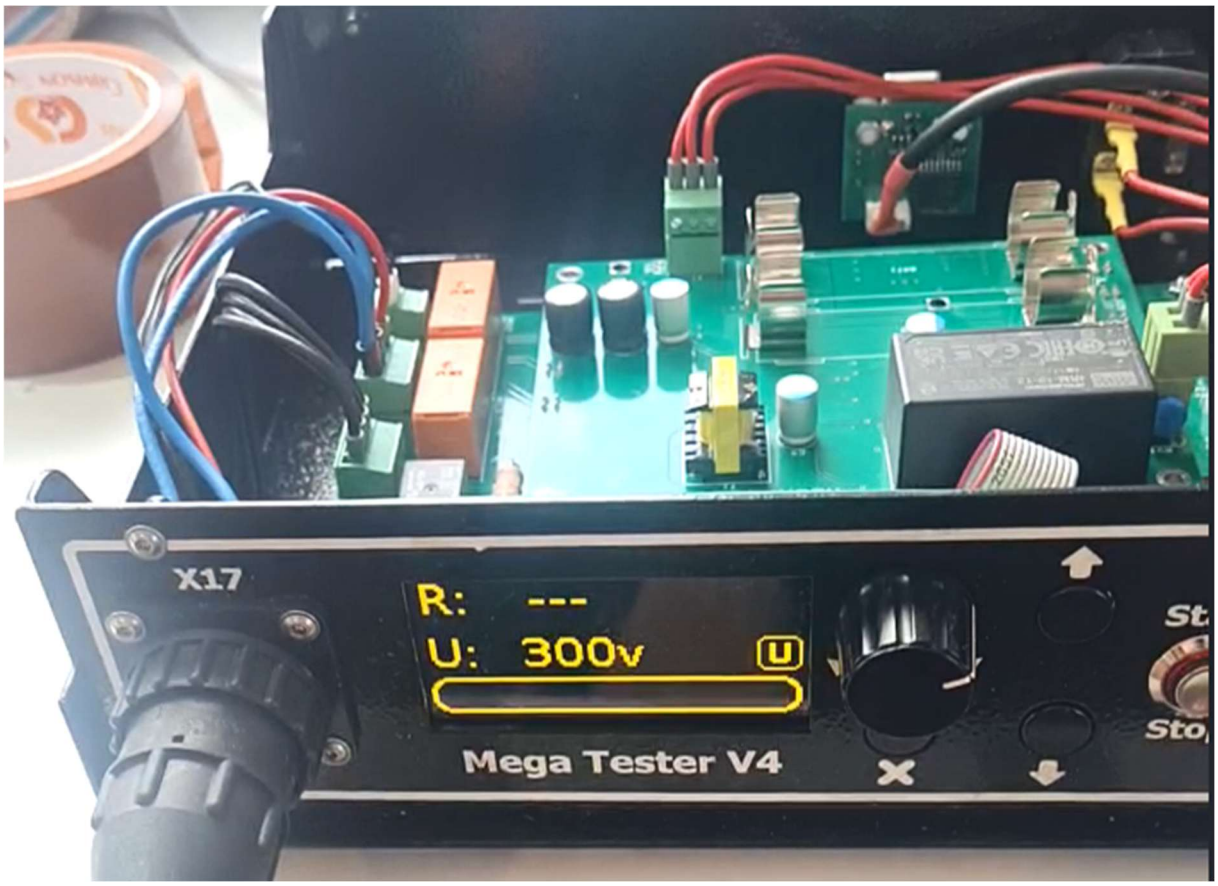
Opensystem West GmbH
info@opensystem-west.net / www.os-west.com
+49 152 33 6 99 528

Insulation Resistance Test. Value displayed but "U" is blinking

The device does not display any or not correct resistance value. The screen remains at “R: ---” or some value, and the “U” warning symbol appears.

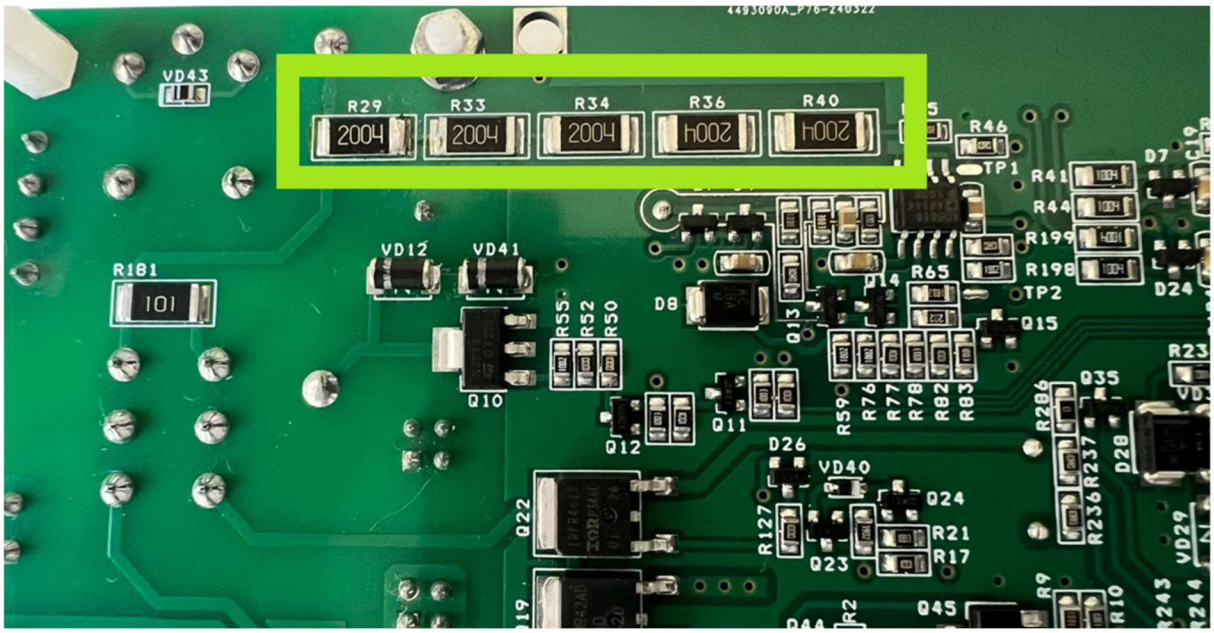
The insulation test cannot be completed correctly.



Opensystem West GmbH
info@opensystem-west.net / www.os-west.com
+49 152 33 6 99 528

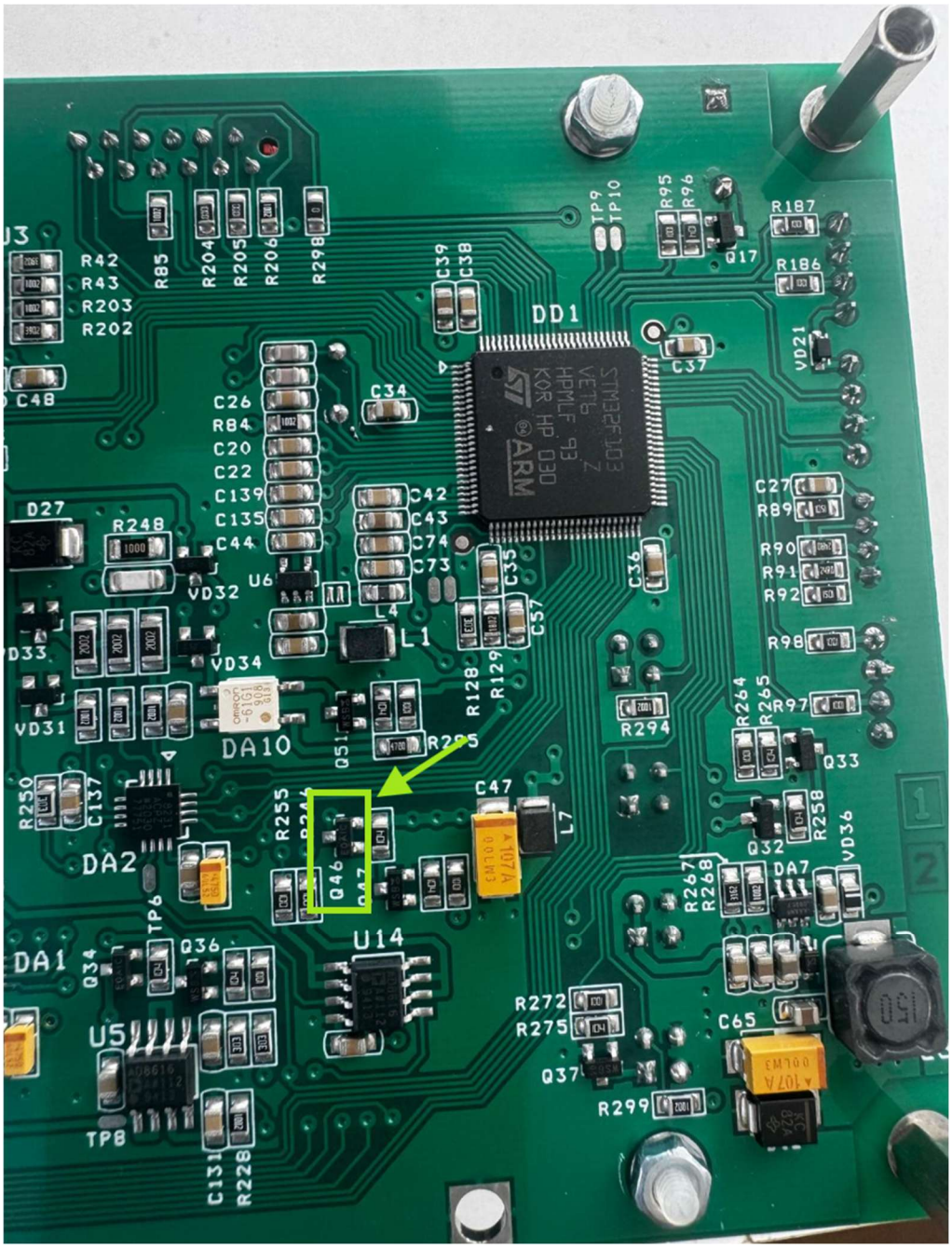
Possible solution:

1. Check the Cable
    a. Disconnect the crocodile clip from the injector and repeat the insulation resistance test.
    b. Inspect the test cable visually for damage, corrosion, or loose contacts, If available, try using a different cable to repeat the test.
2. Check the Resistors R29, R33, R34, R36, R40. Expected value approx. 2MΩ per resistor.
    a. Carefully open the top cover of the Mega Tester V4.
    b. Remove both electronic boards from the housing. Focus on Bottom side of the larger board.
    c. If one or more resistors **deviate significantly** from this value, (typically **too high**), the faulty resistor(s) must be replaced.



Opensystem West GmbH
info@opensystem-west.net / www.os-west.com
+49 152 33 6 99 528

3. Check the solder joint at Q46. If necessary, re-solder the connection carefully. Afterwards, repeat the insulation test and check whether the resistance value is displayed correctly.



Opensystem West GmbH
info@opensystem-west.net / www.os-west.com
+49 152 33 6 99 528

4. **Safety Precaution:** Before soldering, completely disconnect the device from the power supply and all external connections. Make sure that all capacitors are fully discharged before touching or working on the circuit board.
   Check all solder joints of the resistors and transistors in the area around U2. If necessary, reflow or touch up the solder joints with a soldering iron to ensure proper electrical connections. After completing the soldering work, reassemble the device and repeat the test several times by pressing the Start/Stop button approximately 5 times in succession.

