



Bitmain APW12 upgrade

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*For using PSU in overclocked miners*

***Method 1. Add two resistors in FAN IC circuit and wire jumper***

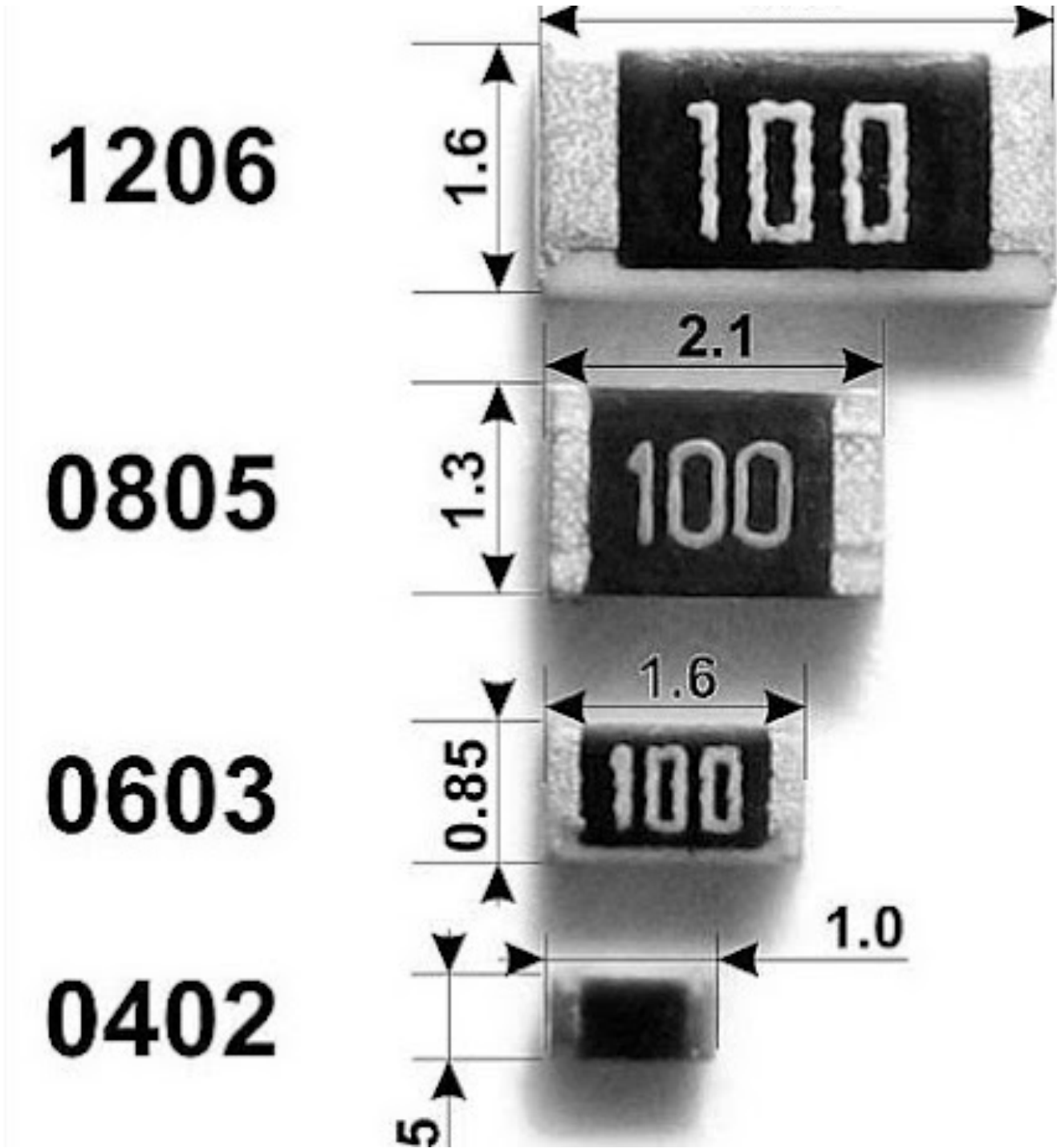


*Bitmain APW12 upgrade*



## Step 1

Prepare PSU and parts for upgrade. And soldering tool. Hot air station.



## Step 2

For upgrade, you need to use two resistors 1206 size. Nominals of 56 Ohm 5% and 4.3 Ohm 1% and wire jumper

<https://www.amazon.com/100pcs-1206-Resistor-chip-0-25W/dp/B07YQ8FXG4>

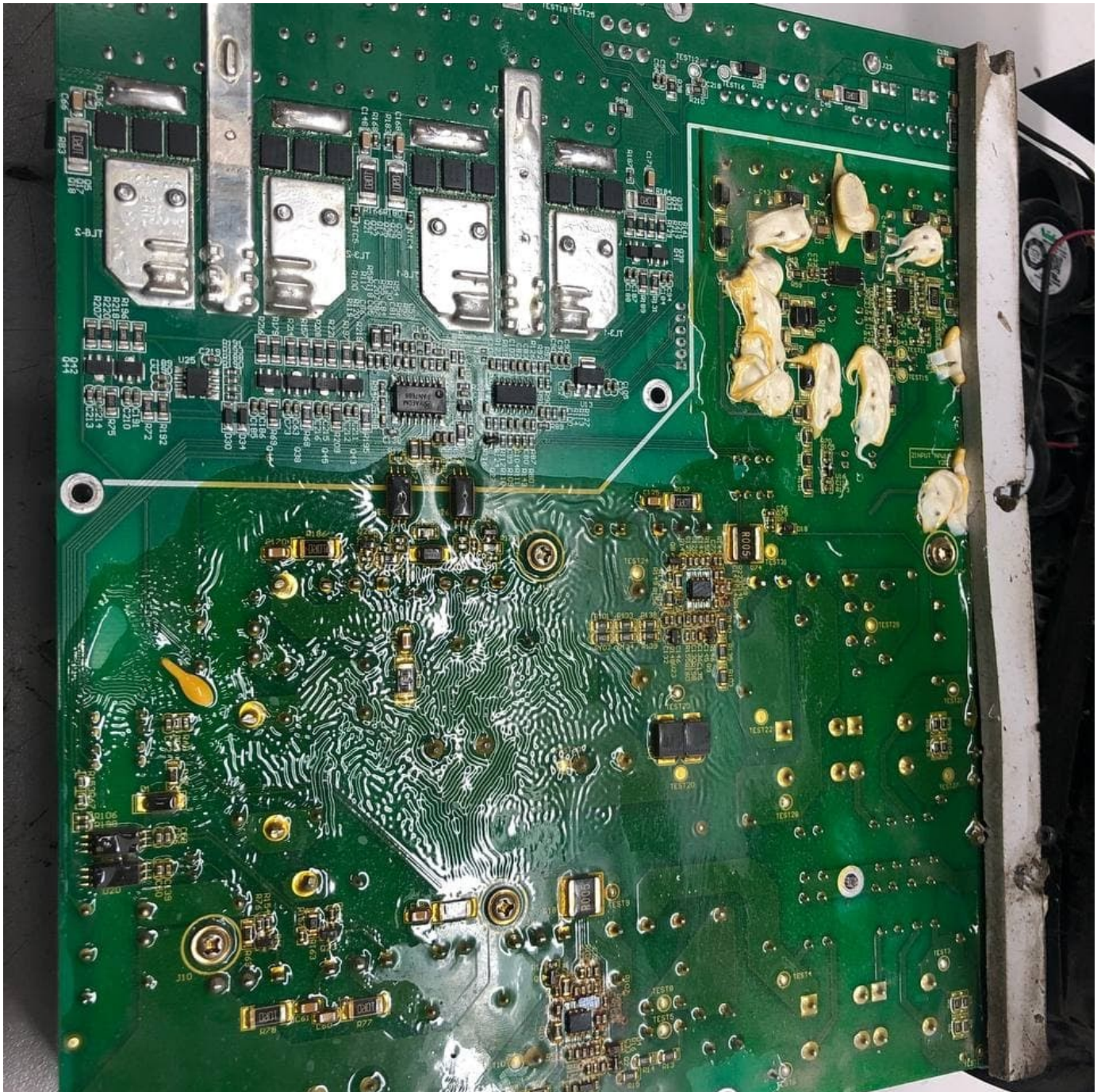




### Step 3

Disassembly PSU. Remove the top cover, carefully unscrew the board from the bottom of the case. Caution High voltage capacitors can be electrocuted if not discharged.

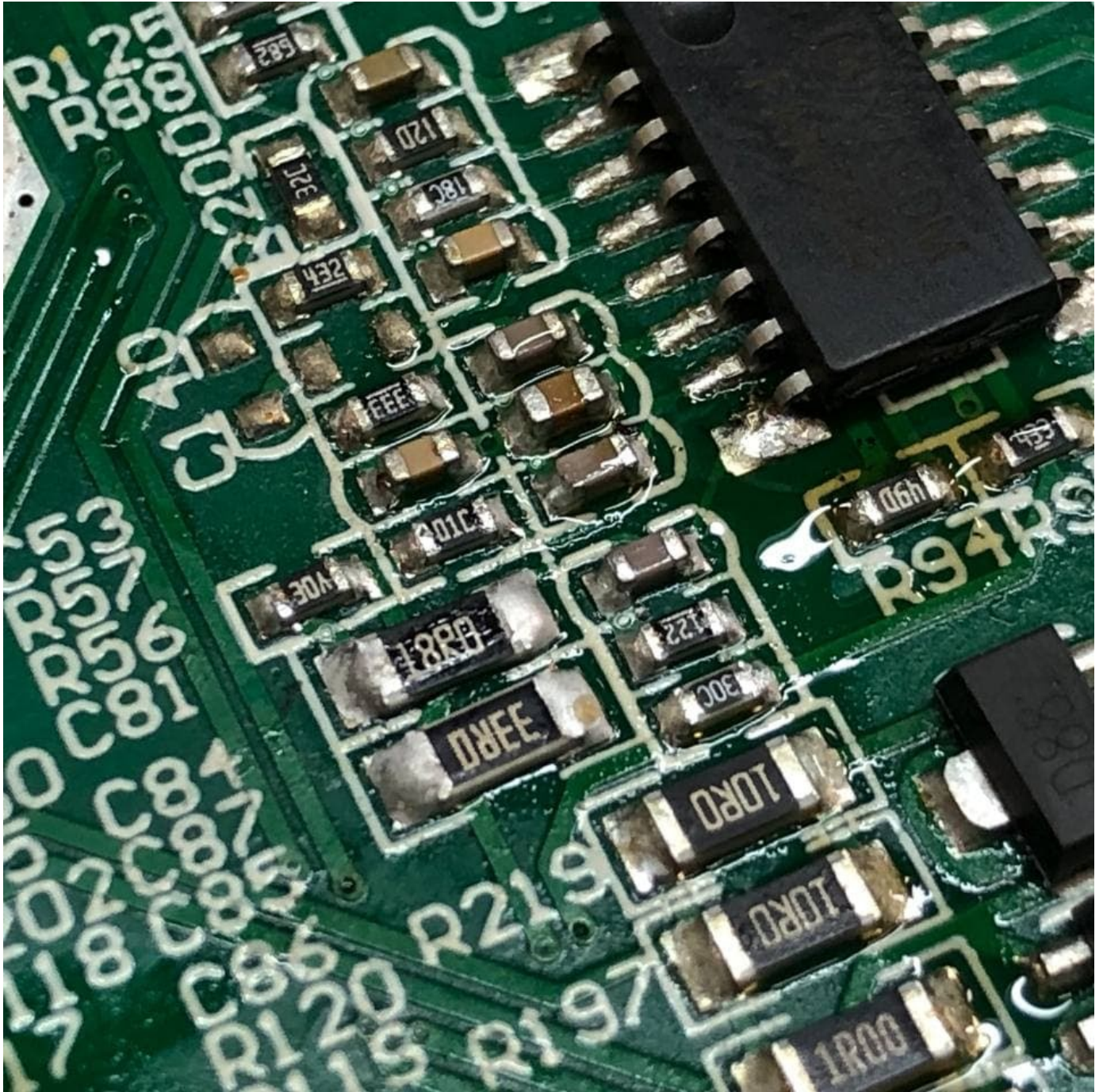




## Step 4

Carefully turn the board over and find the area where you need to add resistors

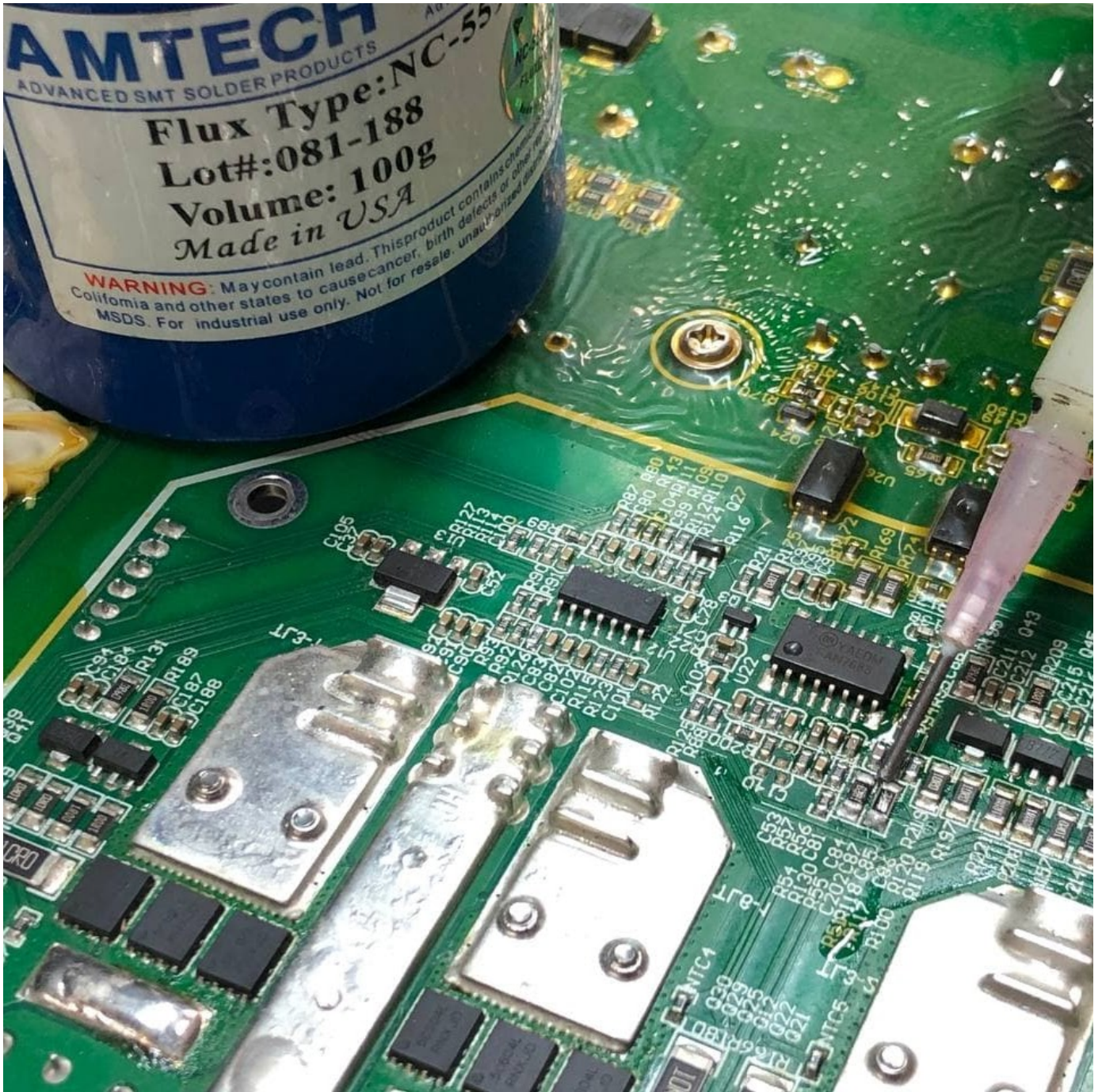




## Step 5

Locate near FAN IC two 1206 size resistors, on top of which you need to solder additional





## Step 6

Add flux.

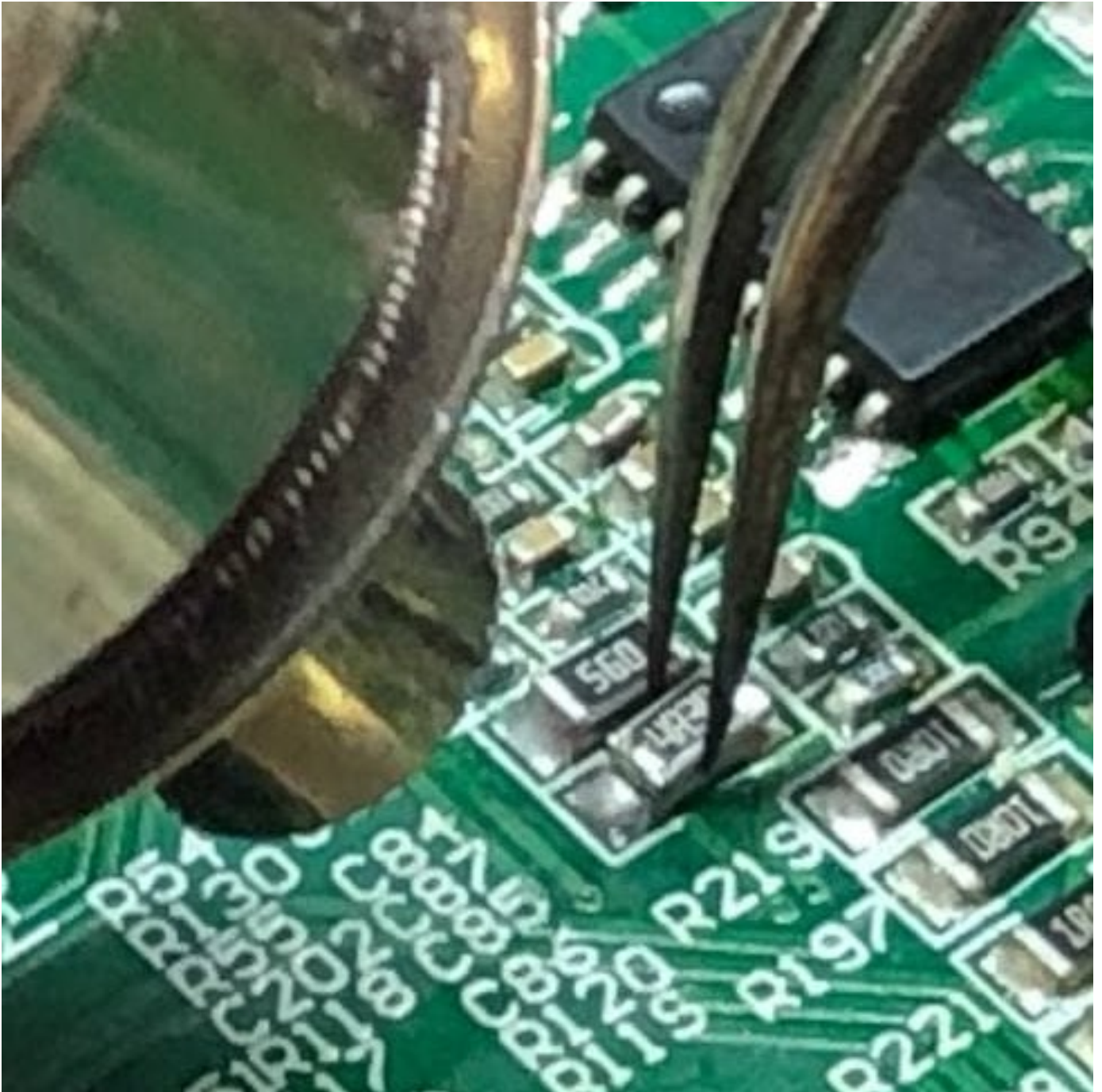




## Step 7

Use hot air station for add first resistor 56 Ohm.

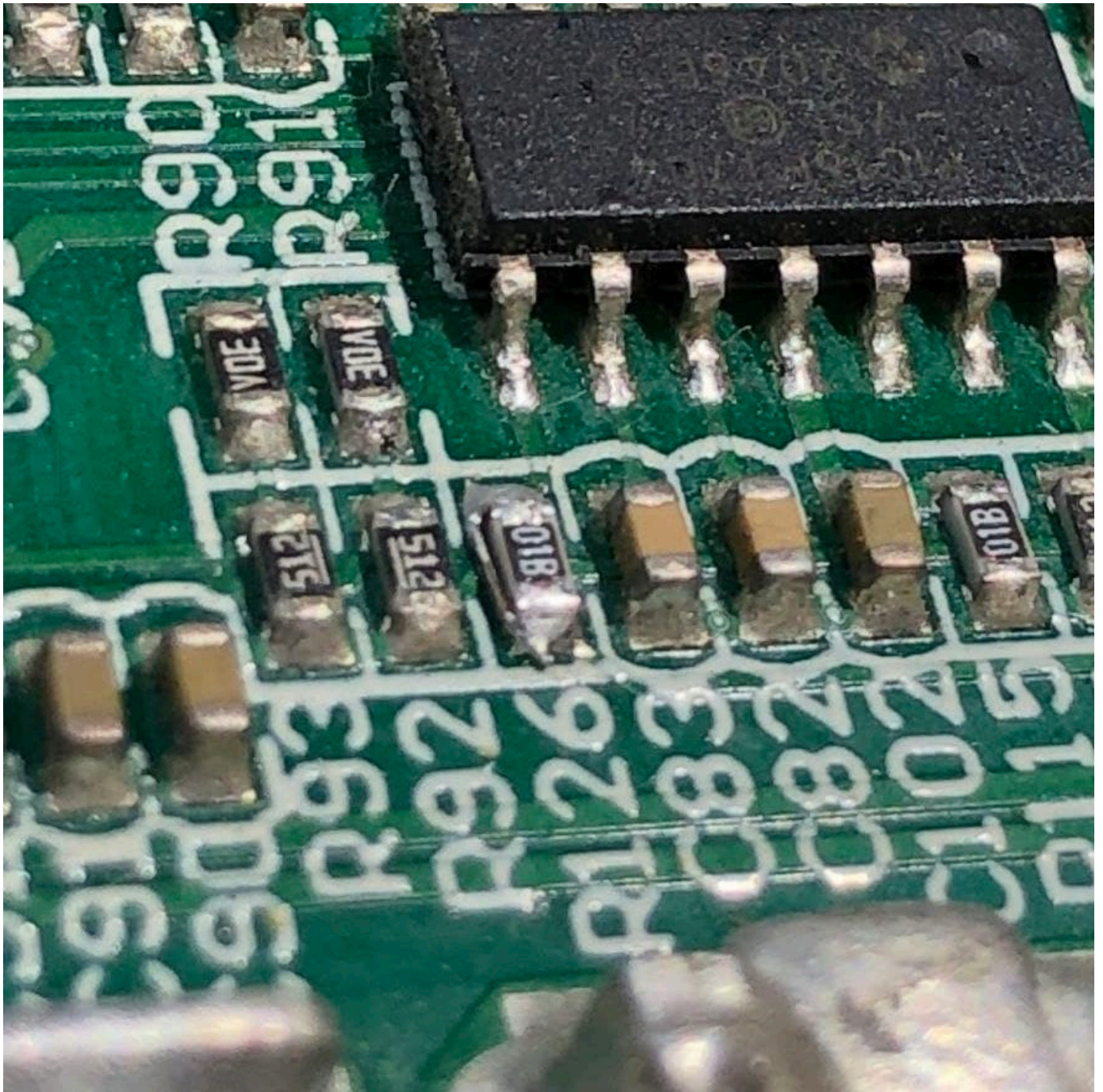




### Step 8

Add second resistor 4.3 Ohm.

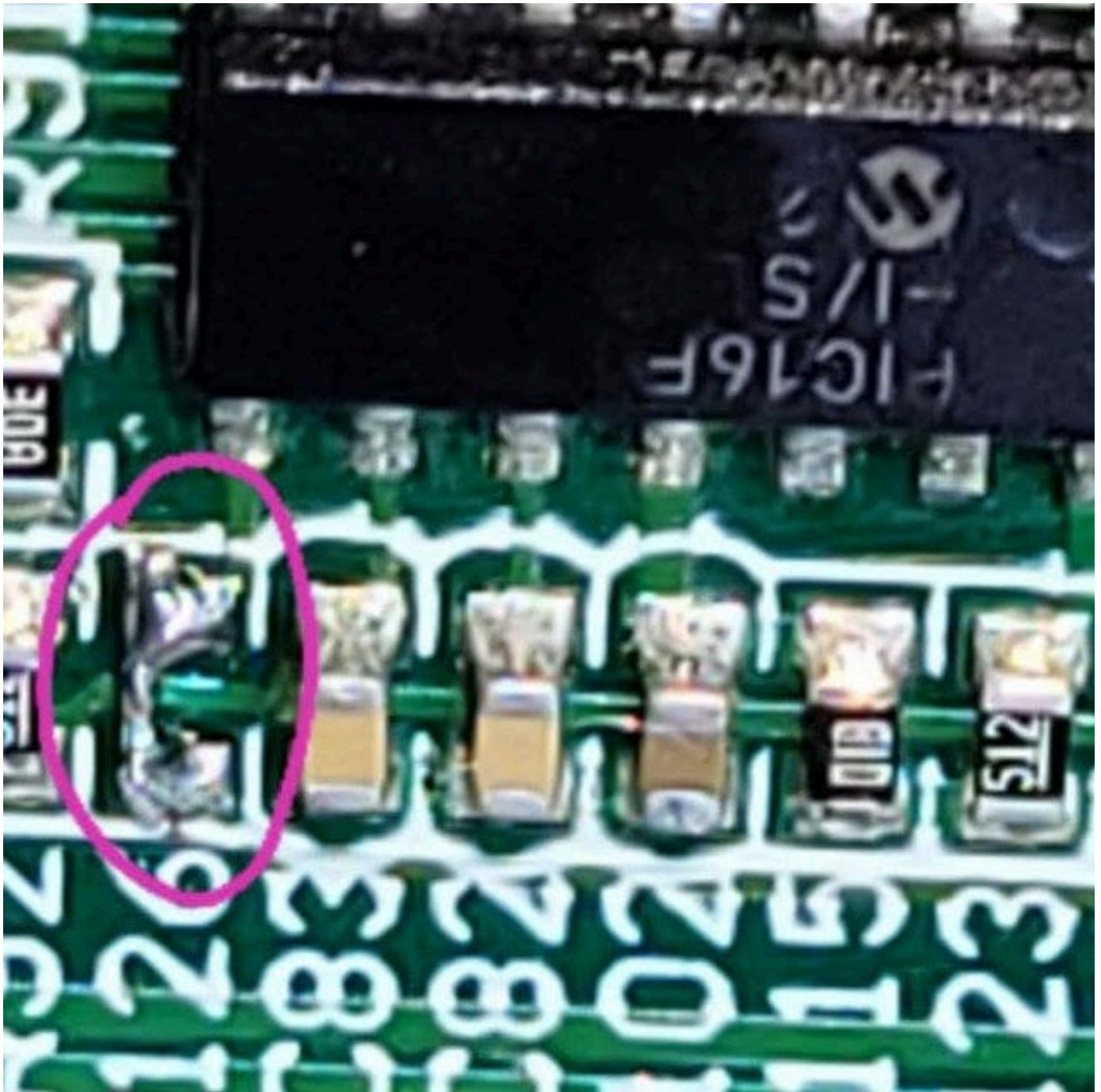




## Step 9

Locate near PIC IC 0805 size resistors R126. Resistor 1 kOhm. Can be marked as 01B or 01H or 102.





### Step 10

Replace resistor or just add wire jumper as on pictures Step 9 or Step 10.

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# Finish

*Now you must assemble PSU in back order.*