LOGGER INSTALLATION INSTRUCTIONS ON DJI MAVIC 2 PRO





Stage 1 Preparing to install the logger

Tools:

- Hex screwdriver 2 mm
- Cross screwdriver 2mm
- Set of flat blades for opening small electronics

Working process:

1. Remove the battery.
2. Remove the gimbal protection
3. Remove the front housing cover:

After unscrewing the 2 screws from the bottom of the cover, gently snap off the cover using a flat spatula to open the case



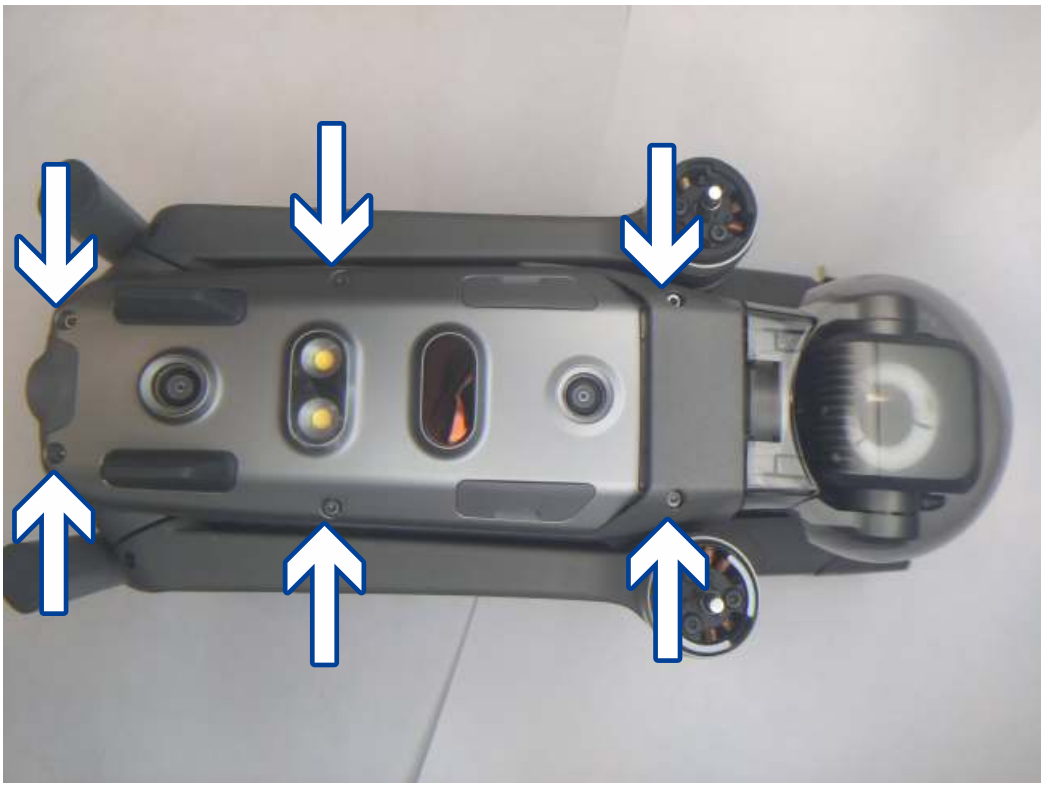
4. Remove the bottom cover of the quadcopter:

After unscrewing the 2 screws, slide the cover towards the camera, then, bending the edge of the cover, carefully remove it.

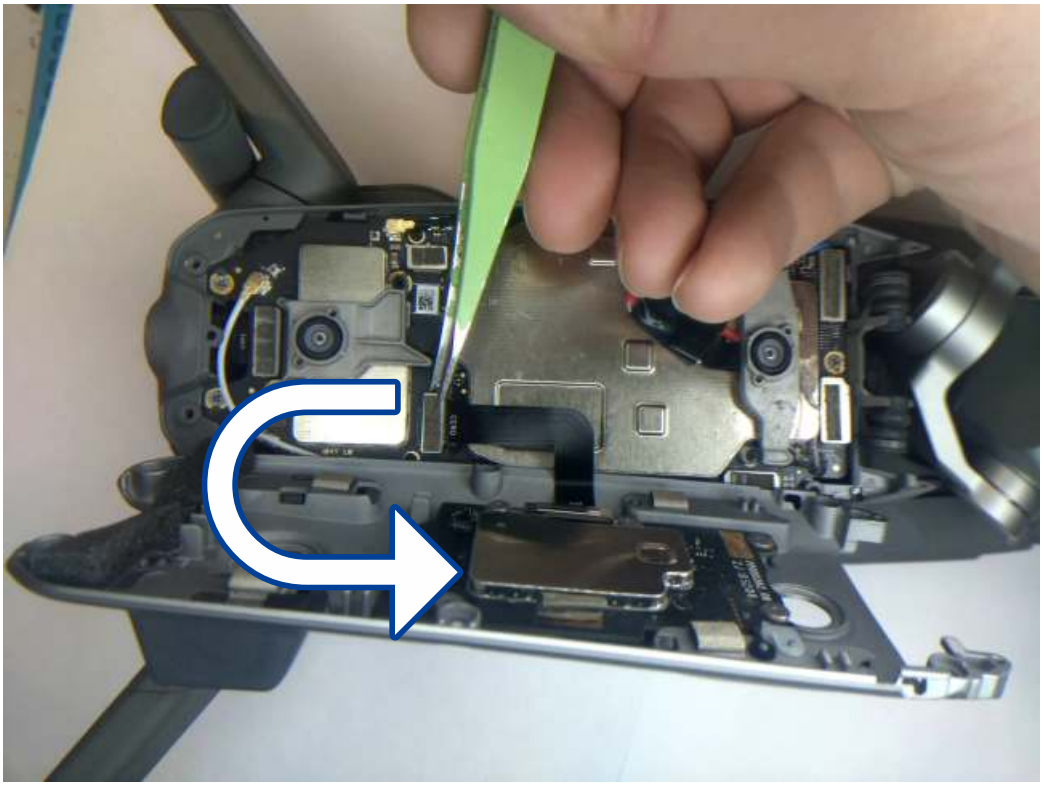


5. Remove the lower radiator cap: Unscrew the 6 screws.





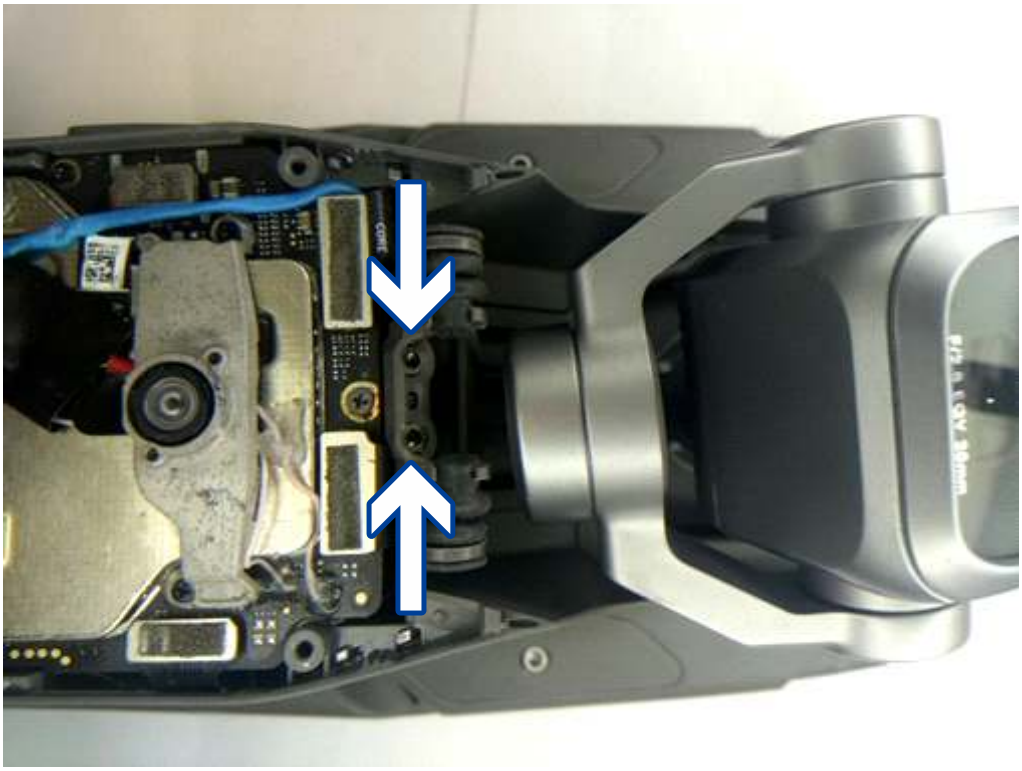
Remove the cover cable from the main board of the quadcopter



6. Remove the camera with gimbal:

After unscrewing the 2 screws, slide the cover towards the camera, then, bending the edge of the cover, carefully remove it.

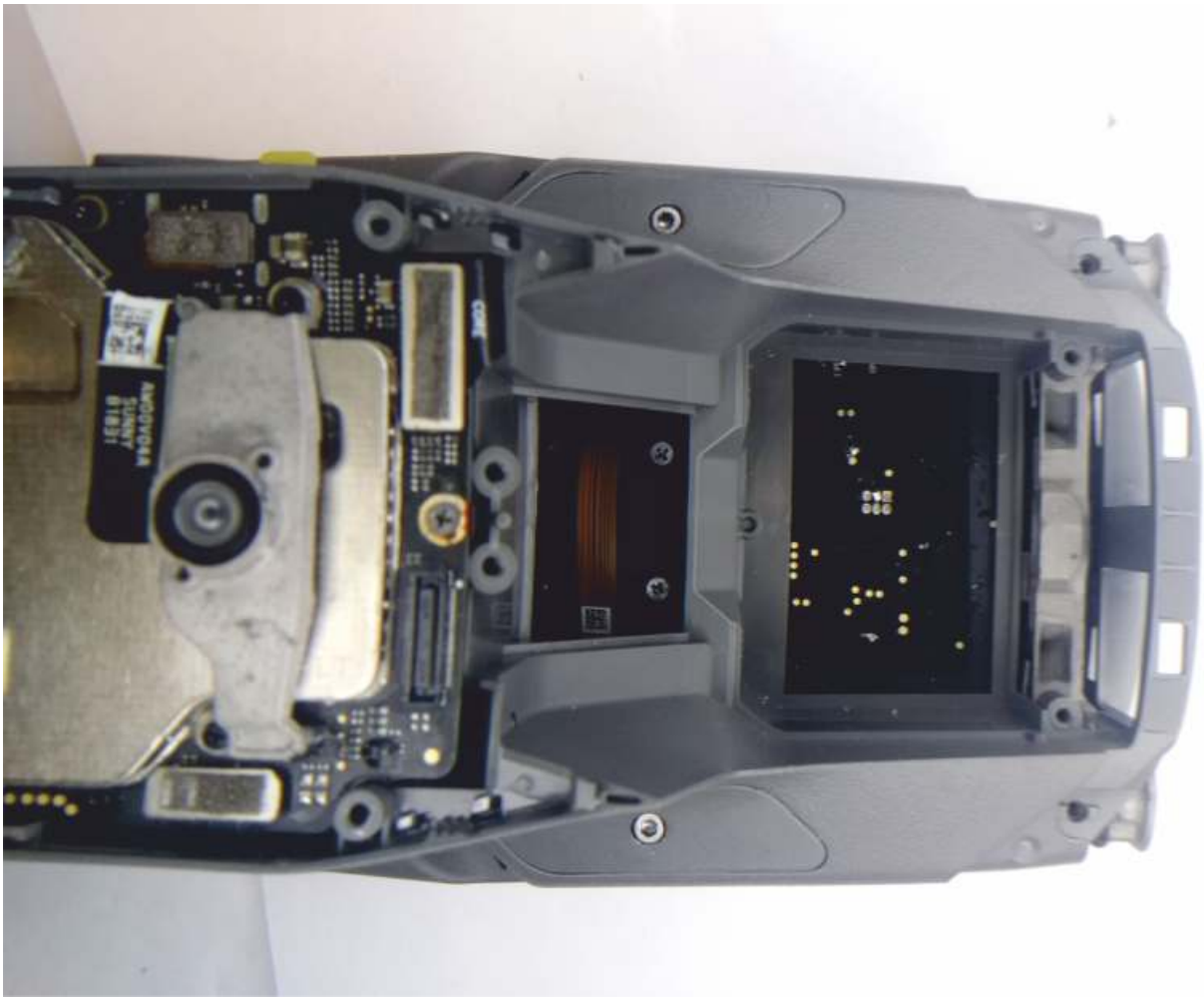
Unscrew the 4 suspension screws



Remove the gimbal cable with the base of the quadcopter board



Remove the gimbal with the camera



Stage 2 Soldering signal wires and power wires for the logger.

Tools:

- Soldering iron or soldering station
- Thermofan
- Technical microscope
- Technical scalpel
- Hot glue
- Tweezers
- Wire insulation stripper
- Side cutters

Materials:

- MGTF cable 0.07 mm² 2 pcs. Length min. 30 cm. (Signal)
- MGTF cable 0.12 mm² 2 pcs. Length min. 20 cm. (Power)
- Heat-shrink tube Ø 1 mm.
- Solder POS-61
- Flux: rosin or special gel. No-clean flux
- Isopropyl alcohol for cleaning
- Cotton buds

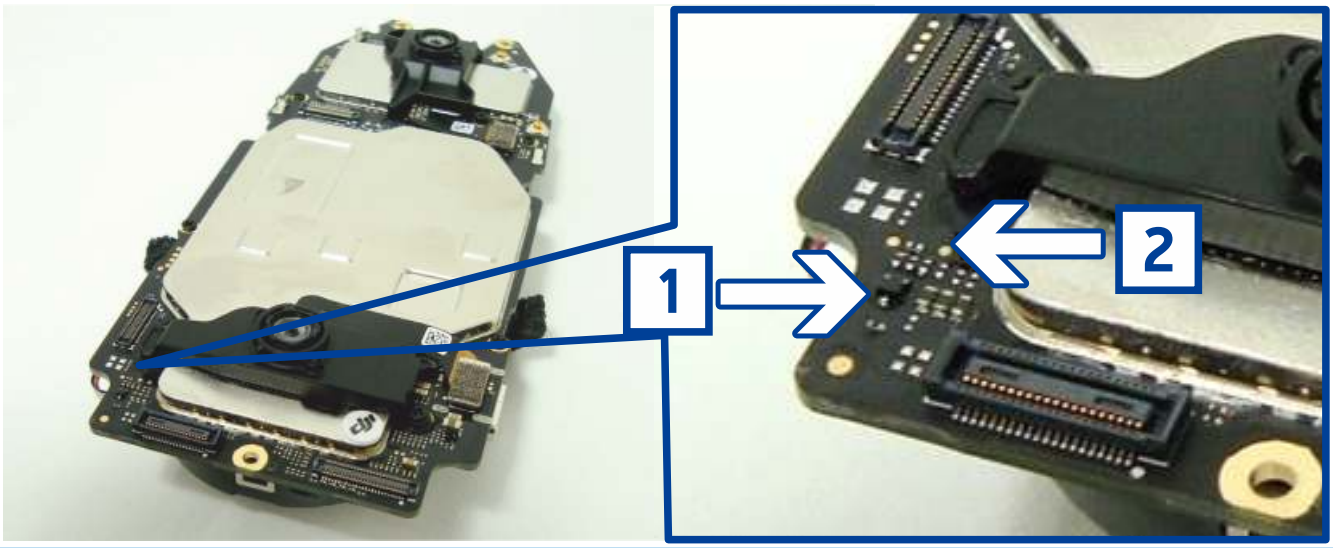
Working process:

1. Preparation of wires:

- Remove the insulation from the wires by 1-3 mm at both ends
- Tinning bare wire ends
- Cut the bare part to 1 mm from one end of the wires

These ends are needed for soldering to the contacts of the quadcopter

2. Solder 2 signal wires to two pins of the mainquadcopter boards

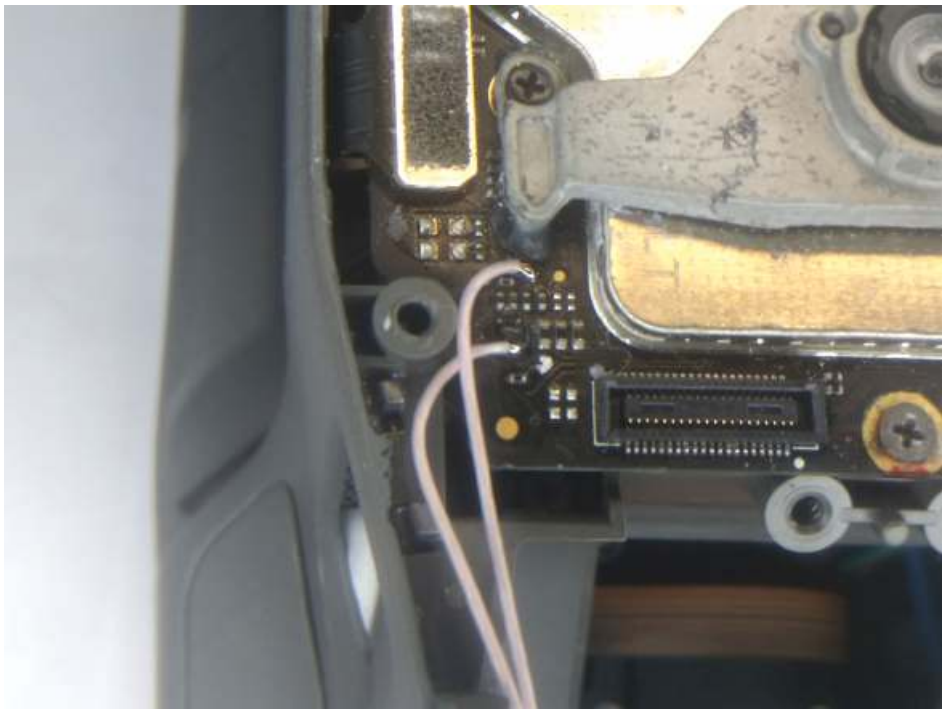


- Remove varnish from pin 1 (middle leg of the transistor)

To do this, you can use a scalpel and cotton swabs moistened with alcohol.

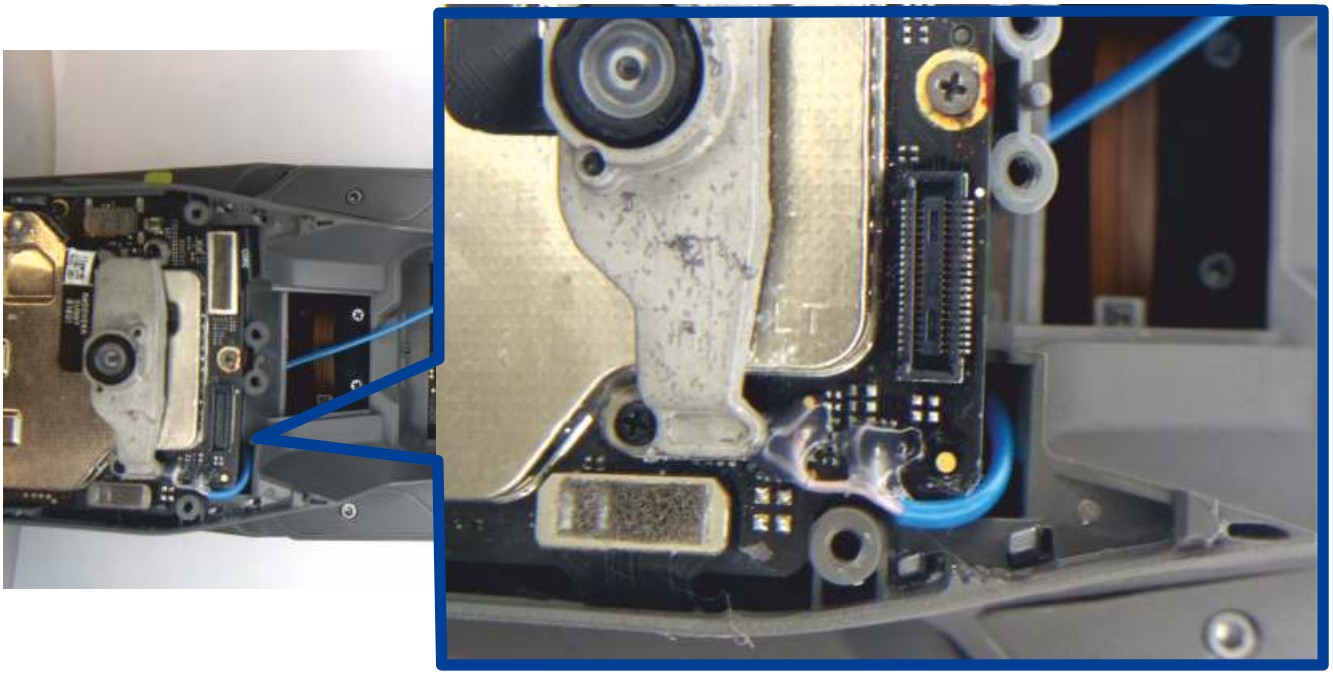
- Tinning pins 1 and 2
- Solder 2 wires MGTF 0.07 mm² to the board contacts
- Clean soldering points from flux with cotton swabs soaked in alcohol or nefras

For more efficient work with soldering to these contacts of the board, it is recommended to use a microscope



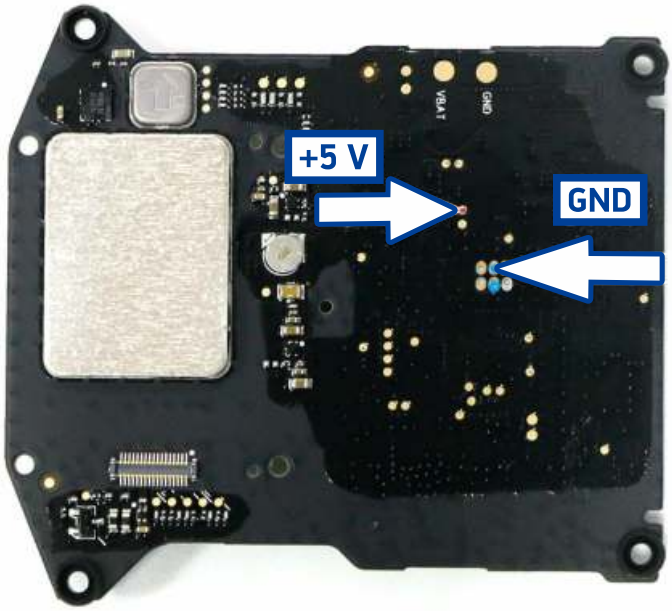
3. Lead signal wires outside:

- Place the wires in a heat shrink tube heated to 150º With a fan, shrink the tube gently fill the soldering points of the wires with hot glue and bring them out as shown in the picture.



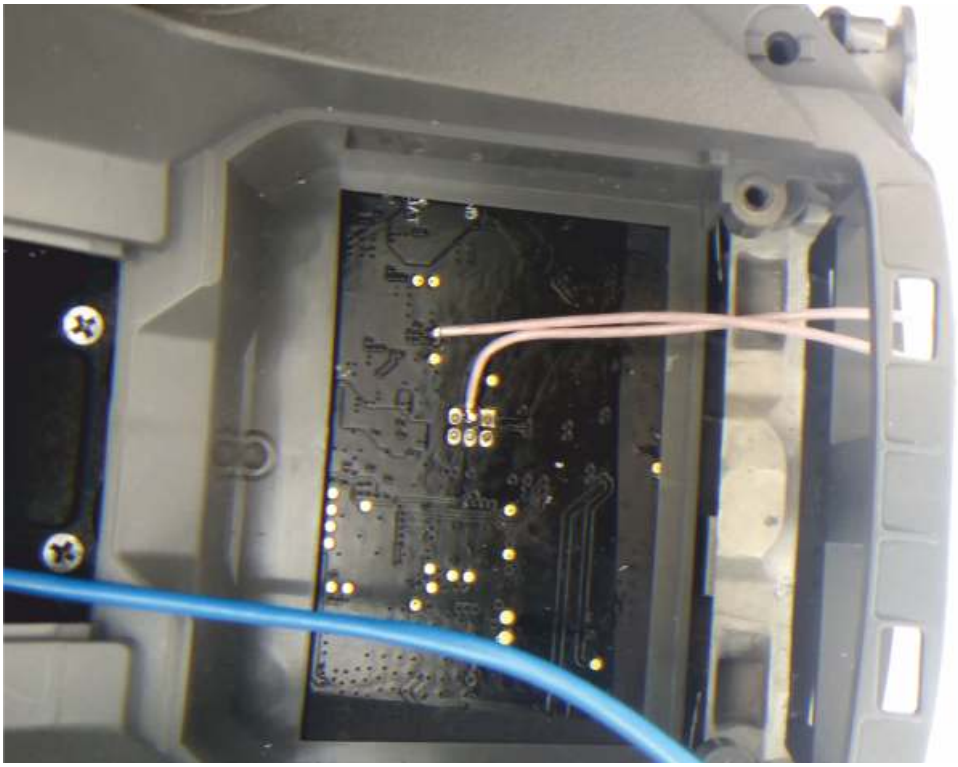
4. Solder 2 power wires to two pins of the quadcopter GPS board:

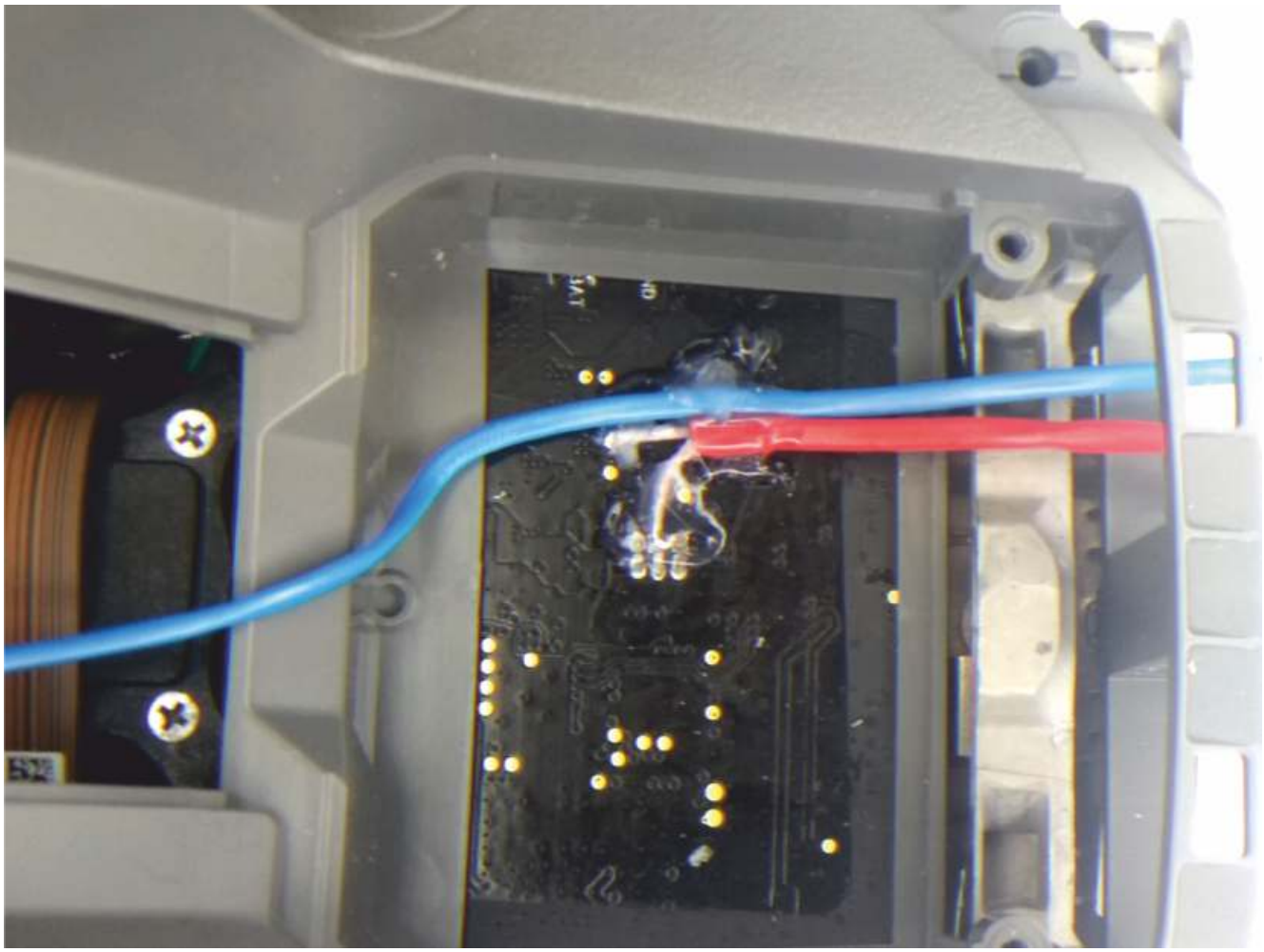
- Tin the contacts "+ 5V" and "GND" on the GPS board of the quadcopter, indicated in the picture above
- Solder 2 MGTF wires 0.12 mm² to the board contacts, as shown in the picture below
- Clean the soldering points from the flux with cotton swabs soaked in alcohol or nefras



5. Lead the power wires outside:

- Place the wires in a heat shrink tubing
- Heated up to 150º With a hairdryer, shrink the thermo-tube
- Carefully fill the soldering points of the wires with hot glue and output them as shown in the picture:





6. Assemble the quadcopter

Stage 3 Installing the logger on the quadcopter

Tools:

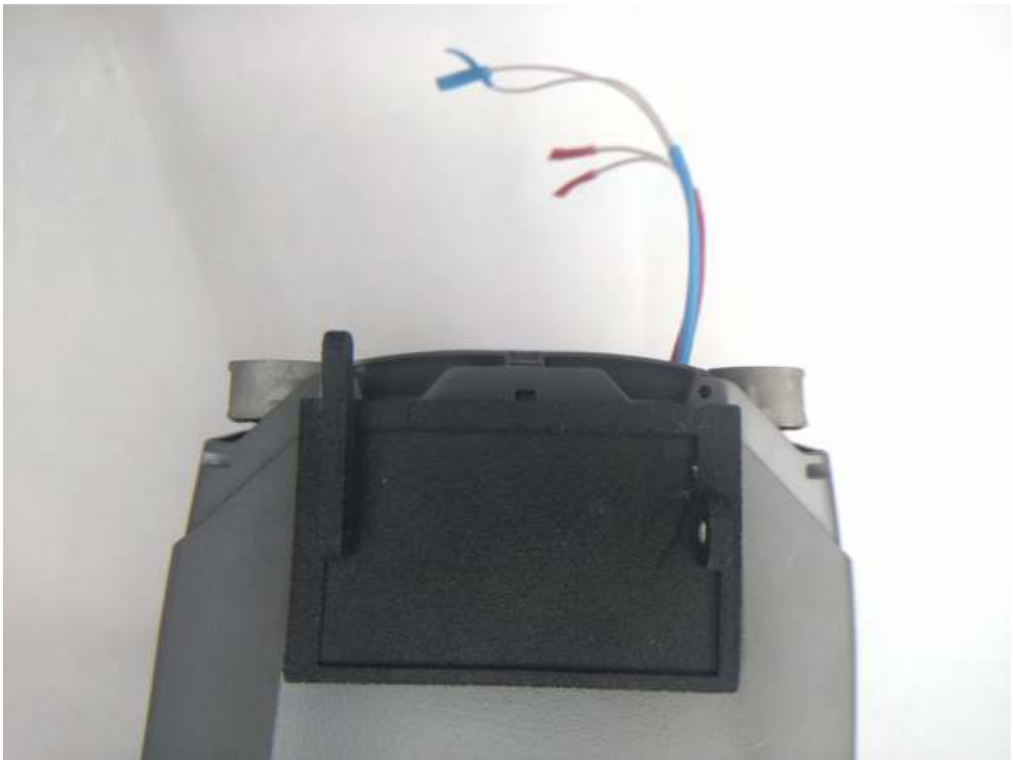
- Soldering iron or soldering station
- Thermofan
- Hex screwdriver 2 mm.
- Side cutters

Materials:

- Solder POS-61
- Flux: rosin or special gel. No-clean flux
- Double-sided tape
- Isopropyl alcohol
- Cotton swabs or swabs
- Heat-shrinkable tube Ø 1 mm.

Working process:

1. Fix the base of the logger to the top cover of the quadcopter:
   - Remove the base from the logger
   - Degrease the surfaces of the cover and base of the logger
   - Glue the double-sided tape to the base and attach it to the top cover of the quadcopter, matching the front edge of the base with the quadcopter body along the line, as shown in the picture:



2. Solder the logger wires to the output wires of the quadcopter:
   - Shorten the wires taken out of the quadcopter to a length of min. 10 cm
   - Solder the logger wires to the output wires in accordance with their purpose: + 5V, GND, Signal 1, Signal 2
   - Close the soldering points of the wires with a thermo-tube

3. Install the logger on the base:
   - Fix the logger to the base with the screws supplied
   - Fix the logger with the screws of the front cover of the quadcopter



4. Install the battery
5. Install the suspension protection.

