

PearTune MSO Avinox DJI M 1 + M2/M2S

Installation instructions

STEP 1: Preparation for installation (5 minutes)

Turn the bike over onto its handlebars for better access to the motor and sensor.
Prepare basic tools: Phillips screwdriver, Allen keys, pliers, and a clean cloth.

STEP 2: Removing the covers and releasing the motor (8 minutes)

Remove the plastic motor cover (Photo 1) and loosen both motor mounting screws (Photo 2) so that the motor can be handled gently and tilt the motor out of the frame so that you have access to the wiring.

Photo 1 (engine cover)

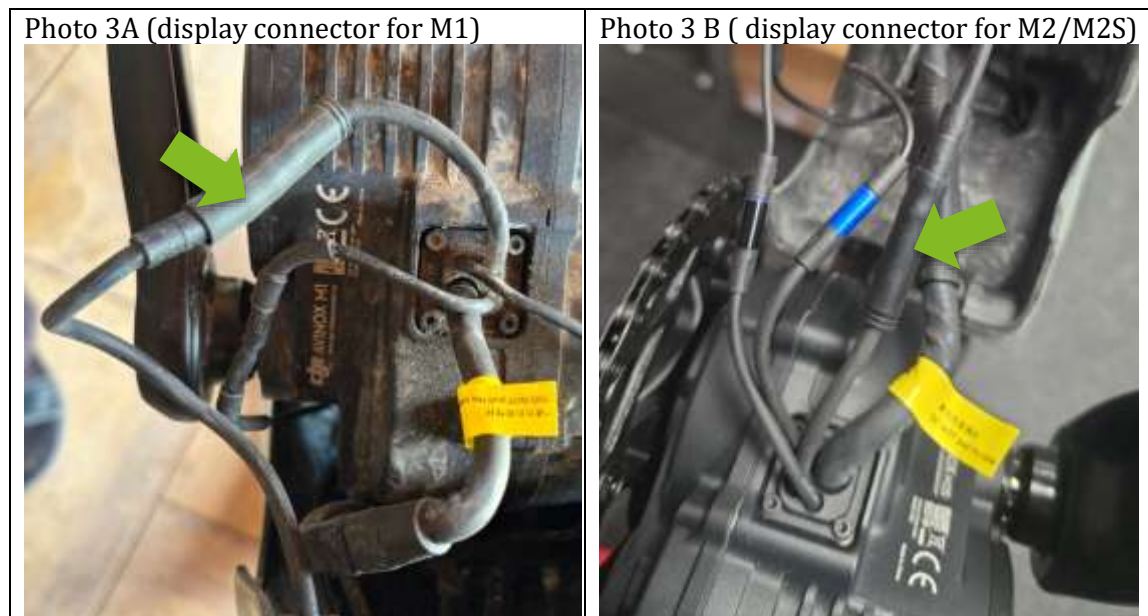


Photo 2 (mounting screws)



STEP 3: Disconnecting the display and connecting the chip (3 minutes)

Disconnect the black 7-pin communication connector (see Photo 3A and 3B) from the display and connect the PearTune MSO chip between the motor and the display to its line. Make sure the connectors are oriented correctly and connected firmly.



STEP 4: Disconnecting the speed sensor and connecting the chip (3 minutes)

In the case of the M1 motor, disconnect the black 2-pin connector of the speed sensor (see green arrow in Photos 4A and 4B) and connect the PearTune MSO chip to its line between the motor and this sensor. Be careful, there are 2 identical pairs of connectors in the motor. Connect the chip to the connector marked with a green arrow in the photo and leave the other one marked with a red cross connected as originally.

Photo 4A (speed sensor connector in M1)

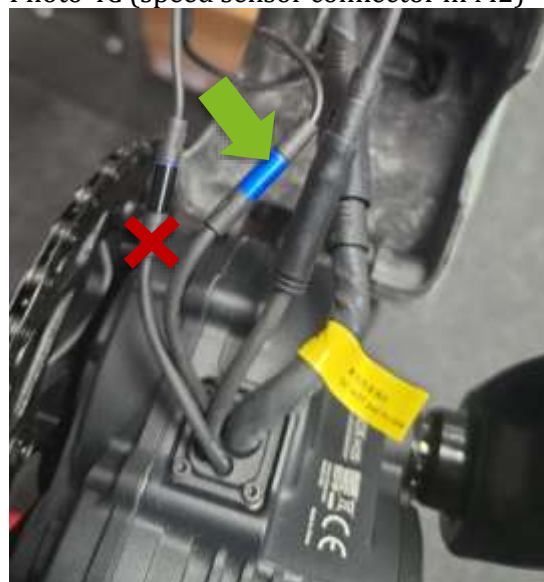


Photo 4B (speed sensor connector in M1)



In the case of the M2 or M2S engine, disconnect the blue/purple 4-pin connector (see Photo 4C) leading from the rear structure to the speed sensor and connect the PearTune MSO chip between the engine and this sensor to its wiring.

Photo 4C (speed sensor connector in M2)



Make sure the connectors are oriented correctly and connected securely.

STEP 5: Reconnecting the power supply and mounting the motor (7 minutes)

Place the chip and all the wiring in the free space in the frame above the motor and place the motor back in its original position and tighten it with the two main screws to the bike frame and put the plastic covers back on and tighten everything properly and check again. Make sure the motor is seated correctly and the cables are routed.

Photo 5A (connected chip in M1 motor)



Photo 5B (connected chip in M2 motor)



STEP 6: First test ride (5 minutes)

Turn on the e-bike and do a short test ride until the speed appears on the display. This will verify the functionality of the sensor and chip.

STEP 7: System calibration and first chip activation/deactivation (1 minute)

After stopping, wait 5-10 seconds and perform the first chip activation/deactivation. Perform the activation/deactivation as follows:

- **the - + - + button combination** (i.e. 4 presses) , start from the TURBO assistance mode with the MINUS button .

When the chip is first activated/deactivated, **the system automatically calibrates itself** (approx. 3-5 seconds), which is indicated by the display of **23.0 km/h** instead of the current speed. Once the speed stabilizes at 23 km/h (+/- 0.1 km/h), the calibration is successfully completed, and then **19.0 km/h** (when the chip is turned on) or **12.0 km/h** (when the chip is turned off) is briefly displayed instead of the current speed.

Calibration is performed automatically without user intervention.

Activation of the chip is then always indicated by the display of 19 km/h instead of the current speed for 2-3 seconds.

Deactivation of the chip is indicated by the display of 12 km/h instead of the current speed for 2-3 seconds.

STEP 8: Complete the installation (1 minute)

Re-check that all screws are tightened.

The installation is now complete – enjoy the freedom of riding!

⚠ WARNING:

Please note that operating bicycles with the PearTune MSO device installed outside of your own property or land designated for this purpose may not be in accordance with the applicable legislation of the country.