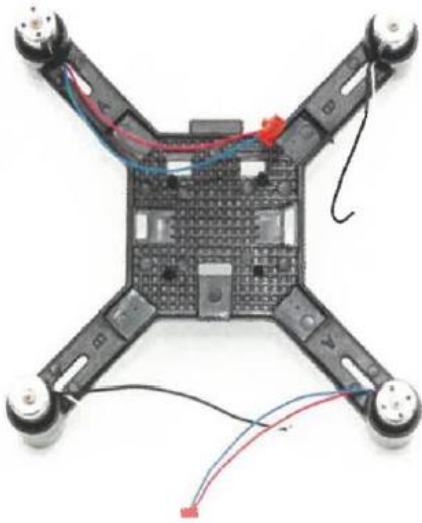# AK-MDRONE: DIY Mini Drone Kit with Remote Control
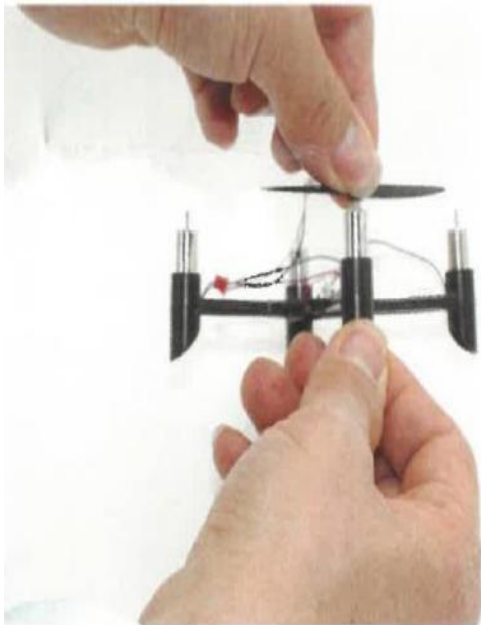
1. Motor Installation

Using the reference diagram, install all four motors onto the drone frame.

Important:

- Carefully match each motor by wire color:

o **Red & Blue wires**

o **Black & White wires**

- Motors must be mounted to the **bottom side** of the frame.

2. Propeller Installation

There are two types of propellers: A and B. Each propeller is marked with a logo to indicate its type.

- Match the correct propeller to the motor:

o Motors with red & blue wires: use A-type propellers.

o Motors with black & white wires: use B-type propellers.

- Attach each propeller to the corresponding motor shaft. Make sure to refer to the figure to ensure correct placement.

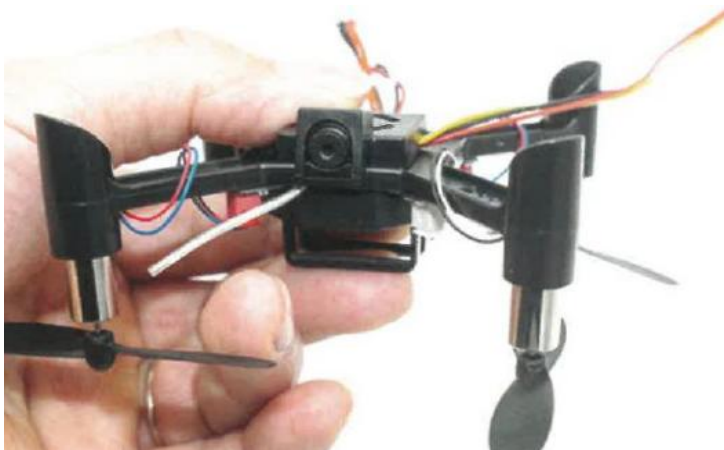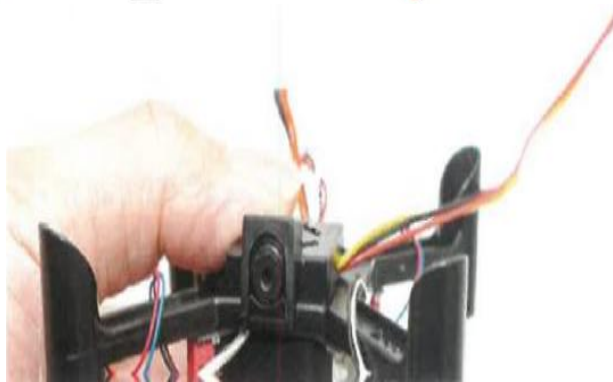- The side of the frame with the bump is the front of the drone.

3. Flight Control Motherboard Installation

- Plug the motor connectors into the flight control board:
  o **Red & Blue wire motors** → red slots.
  o **Black & White wire motors** → white slots.
- Wrap the extra wire neatly around each arm to avoid contact with the propellers.
- The socket of the black and white wire motor is plugged into the white interface of the flight control motherboard.
- The excess wire of the motor is wound around the frame arm. Prevent the propeller from scraping on the motor.

4. Camera Installation (Aerial Version Only)

- Place the camera inside the provided box.

- Connect the three camera wires to the designated ports on the motherboard.

  o The gray wire is the antenna.

- Secure the camera box to the frame using the buckle. Tuck any extra wire neatly outside the box.

5. Battery Installation

- Install the battery holder on the frame using the built-in mounting clips.

- Insert the battery into the compartment.

- Adjust the depth of the battery to balance the drone's center of gravity.

6. Powering On

- Connect the battery's power plug to the corresponding socket on the motherboard.

o Red wire to red, black wire to black.

⚠ WARNING: Reversing the power wires will damage the motherboard permanently.

Note: This manual is simply a guide to get you started.