

**AeroStream Drones - Standard Operating Procedure Document ID: SOP-01 | Rev: 2.4 |**  
**Date: 2024-11-15 Subject:** Rotor Arm Installation for Falcon X1

**1. Scope** This procedure covers the installation of the Carbon Fiber Rotor Arms (Part #RA-400) onto the Main Chassis (Part #MC-100).

**2. Required Tools**

- Torque Driver set to 2.5 Nm
- Loctite 243 (Blue)
- Hex Key 3mm

**3. Installation Steps** **WARNING:** Ensure the battery is disconnected before beginning assembly.

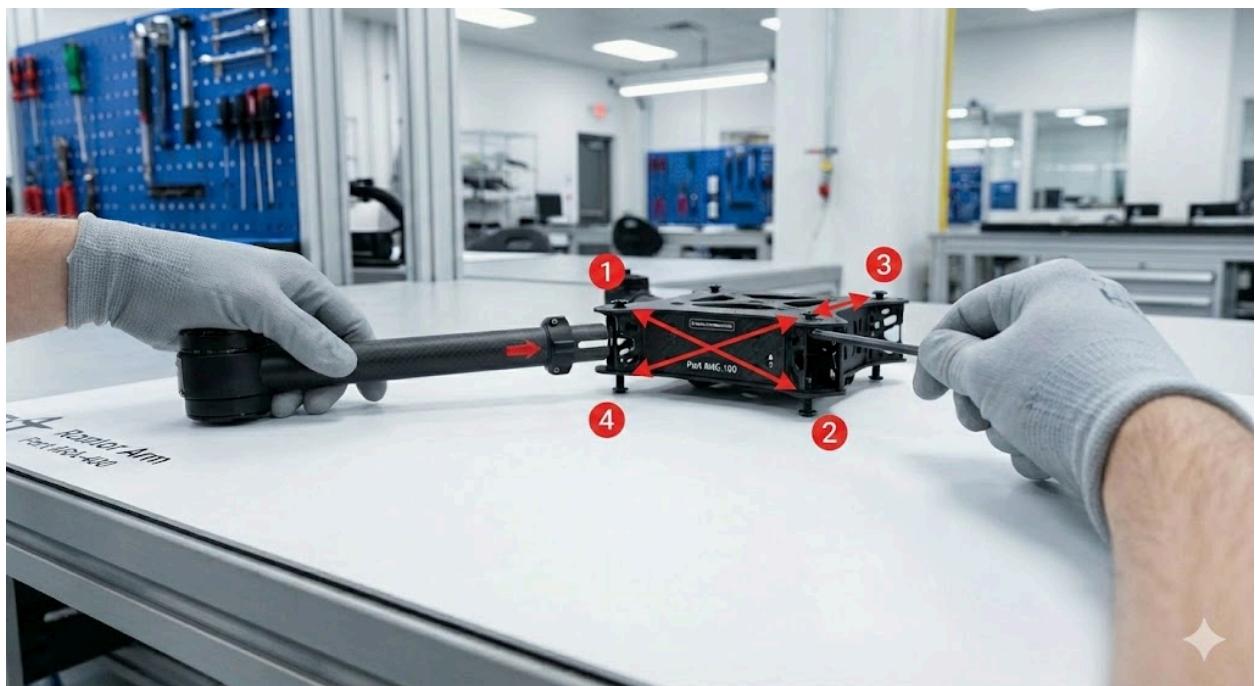
- **Step 1:** Align the Rotor Arm (RA-400) with the mounting bracket on the Main Chassis. Ensure the red arrow on the arm points toward the front of the drone.



- **Step 2:** Insert four M3x10 screws. Apply a single drop of Loctite 243 to the threads of each screw.



- **Step 3:** Tighten screws in a cross pattern (Top-Left, Bottom-Right, Top-Right, Bottom-Left) to ensure even seating.



- **Step 4:** Torque all screws to **2.5 Nm**.
  - *Note:* Over-torquing may crack the carbon fiber mount. Under-torquing may cause vibrations during flight.

