



Using a 55-56 motor driver chip and Field-Oriented Control (FOC), the RoboMaster C930 Enclosed DC Motor Speed Control enables precise control over motor torque.



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Exclusively designed for the RoboMaster M6000 P18 Brushless DC Motor and C930 Enclosed DC Motor Speed Controller, the M6000 Assemblies (A) includes motor cables and a terminal board.

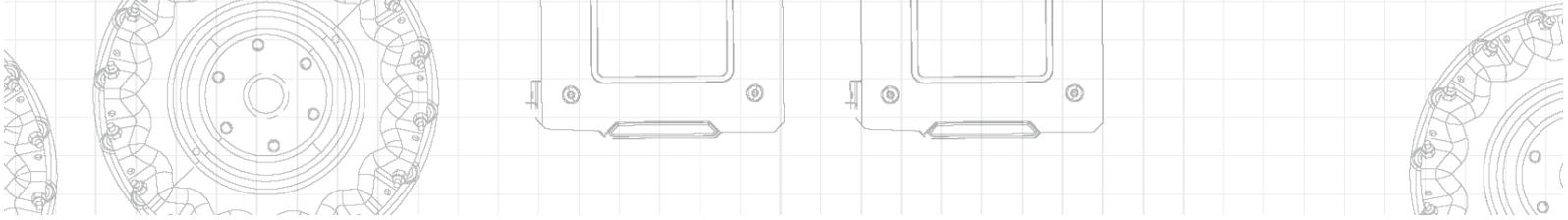
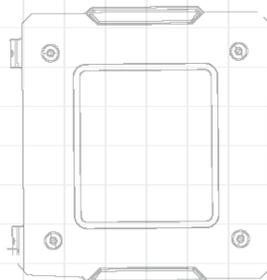
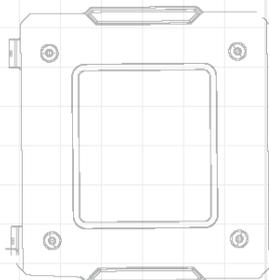
RoboMaster System Specification Manual, RoboMaster User Manual, Introduction of RoboMaster System Models

The M6000 Assemblies (B) includes motor cables and a terminal board, complete assembly system for your RoboMaster robot.

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MANUAL SUPPLEMENTARY EDITION

Prepared by the RoboMaster Organizing Committee
Released on **November, 2019**



RoboMaster 2020 Robot Building Specification Manual Supplementary Edition

2.2.4 Aerial

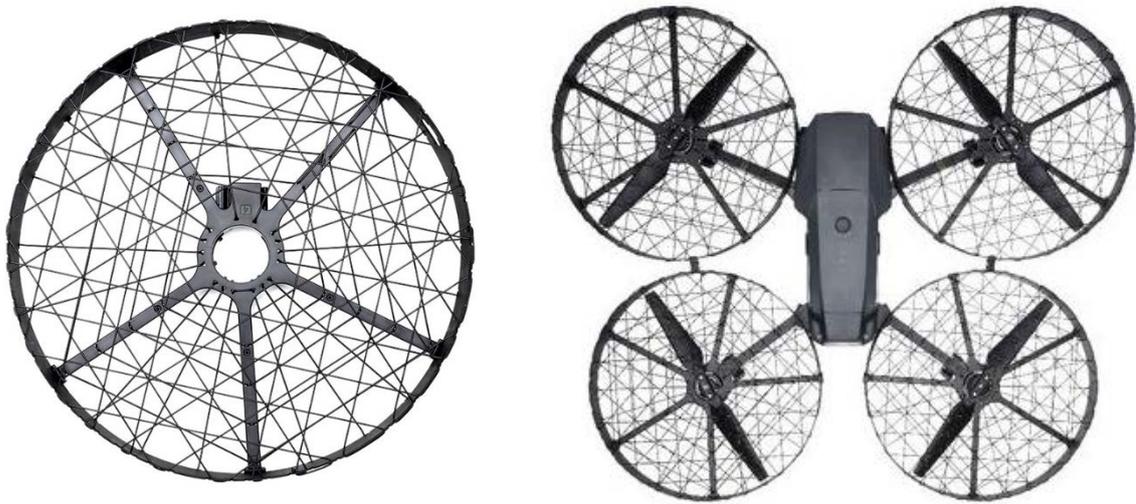
Building Requirement

S42 Aerial must be mounted with fully enclosed propeller cage, and the propellers must not be exposed. The Aerial should be able to strike a rigid surface at a horizontal speed of (1.2 ± 0.1) m/s without suffering significant damage.



Fully enclosed propeller cage: A structure that fully protects each propeller.

The grid dimension constraint of the fully enclosed propeller cage will be updated subsequently. Mavic Pro Propeller Cage is displayed as below for reference:



2.2.6 Dart System

2.2.6.1 Building Requirement



Participating teams must not disassemble or modify Dart trigger device; otherwise, the team will be held responsible for resulting problems related to pre-match inspection or Dart damage detection.

To ensure a fair and just competition, Dart needs to be installed with a Dart trigger device provided by the RoboMaster Organizing Committee (RMOC). Structure and dimension of the Dart trigger device will be updated subsequently.

Dart Trigger Device

Dart trigger device is a plastic shell and has built-in red/blue bicolor LED light beads, 940 nm infrared-ray LED light beads and infrared receive light beads. Since the device structure is hollow, teams can install camera within it.

Advantages of Dart trigger device are as follows:

- Protect camera
- Distinguish between Darts of the red team and blue team
- Emit modulated infrared light to detect whether Dart has hit the target

Mounting Requirement:

Dart trigger device needs to be securely installed on the front end of the flight direction of Dart, so that the device can have a direct contact with and effectively hit the target.

RoboMaster 2020 Robotics Competition Rules Manual Supplementary Edition

2.5.2 Power Rune

3. Activating

When the Power Rune is activating, if a projectile hits the Armor Module with flowing arrow lights on the central axis of the mounting bracket within 2.5 seconds, the bracket will be fully illuminated. At the same time, the Power Rune will randomly illuminate one of the remaining four Armor Modules, and so on and so forth, as shown below:

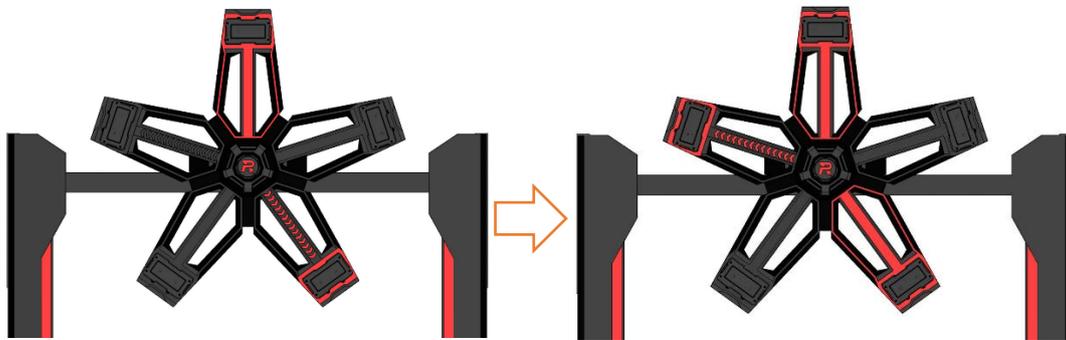


Figure 2-18 Graph of Power Rune Activating