FPV motor 5215 340KV

User manual

PILOTIX™

2026

Content

1. Product overview

Fig.1. Fpv motor 5215 340KV

The Pilotix 5215 340KV is a high-performance power solution specifically engineered for heavy-duty multirotor platforms. Featuring a low KV rating and a massive stator, this motor is optimized for 18" to 22" propellers, delivering colossal lift capacity and the stability required for carrying professional cinema cameras and industrial payloads.

2. Technical Specifications

For detailed technical specifications, precise dimensions, and full thrust test results (Thrust Chart), please refer to the Official Datasheet available on our website.

3. Installation Guide

Mounting Pattern

The motor features a mounting pattern using M3 screw holes.

Proper Tightening Technique (Cross-Pattern)

To ensure even pressure distribution and prevent mechanical stress on the motor base or the frame arm, always tighten the mounting screws in a cross-pattern (diagonal order).

1. Insert all 4 screws loosely.
2. Tighten one screw halfway.
3. Move to the screw diagonally opposite and tighten it halfway.
4. Repeat for the remaining two screws.

5. Finally, fully torque them down in the same diagonal sequence.

CRITICAL WARNING: Check your screw length! Ensure that the mounting screws do not reach or touch the motor windings. Even slight contact will cause a short circuit, leading to the immediate destruction of both the motor and your ESC.

Propeller Mounting

- Type: Removable prop adapter with an M6 threaded shaft (secured by four M3 screws).
- Installation: Ensure the propeller hub is perfectly centered on the 6 mm shaft. Use the included spinner nut or a nyloc nut. Tighten firmly to prevent any slippage during rapid RPM transitions or braking (active braking/damped light).

4. Wiring and Setup

Connection: Solder the three motor wires to your ESC (Electronic Speed Controller) pads in any order.

Direction Check: Power up the quad (always use a Smoke Stopper for the first plug-in) and check the rotation in Betaflight Configurator.

Software Configuration: If the motor spins in the wrong direction, you can either swap any two motor wires or change the "Motor Direction" setting in firmware.

5. Safety & Maintenance

Pre-flight: Check the tightness of both motor and propeller screws before every session.

Cleaning: If you land in dirt or sand, use compressed air to blow out the motor bell. Avoid flying with debris inside, as it will damage the magnets and wire coating.

Bearings: Replace the motor or bearings if you notice "grittiness" or excessive play.

Temperature: If motors are too hot to touch (> 80°C) after a flight, land immediately and check your PID/Filter settings or mechanical issues.

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