3115 900Kv

Readytosky
Brushless motor for 9–10" FPV drones



Read this manual carefully before installation and first use, and keep it for future reference.

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1. Product description

1.1 Intended use

The **Readytosky 3115 900Kv** is a brushless electric motor for FPV drones with 9–10" propellers in combination with a 6S battery. The motor has curved magnets, single-strand windings and a bell secured with a screw.

The motor cannot be connected directly to a battery. It requires an electronic speed controller (ESC), which powers it and controls its speed according to the commands of the flight controller (FC). One motor is mounted on each arm of the drone; the direction of rotation is set by the wiring or by the ESC settings (Chapter 2.3).

※ The manufacturer does not specify the maximum current, maximum power or thrust tables of the motor. Use the motor only in the recommended configuration (9–10" propellers, 6S battery) and check its temperature after the first flights.



Readytosky 3115 900Kv – view of the bell and windings

1.2 Specifications and package contents

Product designation	Readytosky 3115 900Kv
Manufacturer	ShenZhen ReadytoSky Technology Co., Ltd.
Size	3115
Kv	900
Configuration	12N14P
Weight	112 g
Shaft diameter	5 mm
Mounting holes	19 mm spacing, M3 screws
Intended for	9–10" propellers, 6S battery
Package contents	1× motor, 1× set of screws
Not included	ESC, propellers, battery, frame and other drone parts

2. Use

2.1 Safety instructions

- The motor is a part for building and repairing radio-controlled models. It is not a toy and must be kept away from children. Installation should be carried out by a person experienced in building FPV drones.
- A 9–10" propeller driven by this motor can cause serious injury. **Disconnect the battery** whenever you work on the drone.
- **Remove the propellers** for the first start-up and while checking the direction of rotation.
- The motor heats up during operation. Do not touch it after a flight until it has cooled down.
- Do not use a damaged motor – a bent shaft, damaged wire or winding insulation, rough bearings or a loose bell.
- The magnets in the bell attract metal filings and small objects. Protect the motor from dirt, sand and moisture.
- Follow the instructions of the manufacturers of the ESC, flight controller and battery. The operation of a drone is governed by the law of the country in which you fly.

2.2 Mounting on the frame

① Check that the frame arm has motor holes with 19 mm spacing for M3 screws.

② Use the screws supplied. A screw must not be so long that it reaches the stator windings when tightened – it would damage the insulation and could cause a short circuit. Check the length before mounting: screw it in by hand and make sure the bell turns freely.

③ Tighten the screws gradually in a crosswise pattern with reasonable force. Medium-strength threadlocker can be used to prevent loosening due to vibration.

④ Route the motor wires along the arm and secure them with a cable tie or heat-shrink tubing so that they cannot reach the propeller or chafe against the edges of the frame.

2.3 Connecting to the ESC and checking the direction of rotation

The motor has three wires. Solder them to the three output pads of the ESC for the given motor. The order of the wires only determines the direction of rotation; it cannot damage the motor.

- The ESC must be rated for a 6S battery. As the motor manufacturer does not specify the maximum current, choose an ESC with a margin.
- Solder the joints with a sufficiently powerful soldering iron, without cold joints, and check that neighbouring pads have not been bridged with solder.
- Check the direction of rotation **without propellers**, e.g. in Betaflight Configurator on the *Motors* tab. The correct direction for each position is determined by the flight controller settings (*Props in* / *Props out*).
- If a motor spins the wrong way, swap any two wires, or change the direction in the ESC settings or in Betaflight (*Motor direction is reversed*).
- When connecting a battery to a new build for the first time, we recommend using a current limiter (smoke stopper).

2.4 Mounting the propeller

- Use 9–10" propellers with a hole for a 5 mm shaft.
- Fit the propeller only after checking the direction of rotation. Clockwise (CW) and counter-clockwise (CCW) propellers must be in the correct positions.
- Tighten the propeller nut firmly but without excessive force, and check before each flight that it has not come loose.

2.5 Maintenance and storage

- After each flight, turn the bell by hand: it must rotate freely, without roughness, squeaking or play. Check that the screw securing the bell is tight.
- After a crash, check the shaft and bearings. Do not straighten a bent shaft; take the motor out of service.
- Remove dirt and metal filings with a dry brush or compressed air.
- Store the motor in a dry, clean place, protected from mechanical damage.

2.6 Troubleshooting

Problem	Possible cause and solution
After Arm (motor start) the motor does not spin or stutters	Faulty or cold solder joint, broken wire. Check the joints on the ESC and the ESC protocol setting in the flight controller.
The motor spins in the wrong direction	Swap two wires or change the direction in the ESC settings (Chapter 2.3).
The motor overheats	Propeller too large or too heavily loaded, damaged bearing, unsuitable flight controller settings. Reduce the load and check the bearings.
Roughness, noise, vibration	Dirt between the bell and the stator, damaged bearing, bent shaft, or an unbalanced or damaged propeller.

3. Information for the EU and Czech Market

3.1 Importer and responsible person in the EU

The product is placed on the European Union market by the importer stated below, who is at the same time the responsible person within the meaning of Article 16 of Regulation (EU) 2023/988 of the European Parliament and of the Council on general product safety (GPSR).

Importer / responsible person in the EU	Rotorama, s.r.o.
Company ID (IČO)	051 57 692
VAT ID (DIČ)	CZ05157692
Registered office	Okrajová 1351, 674 01 Třebíč, Czech Republic
E-mail	info@rotorama.cz
Phone	+420 252 252 098
Website	www.rotorama.com

3.2 Disposal of electrical equipment



- The crossed-out wheeled bin symbol on the product, its packaging or in the documentation means that at the end of its service life the product **must not be disposed of together with mixed municipal waste**.
- Hand it over at a take-back point for electrical equipment – at a collection yard, at a take-back point of a collective system, or at the retailer when purchasing a new equivalent product. Take-back is free of charge for the end user.
- The obligations under Act No. 542/2020 Coll., on end-of-life products, are fulfilled by the importer through a collective take-back system.
- Proper disposal helps prevent negative impacts on the environment and human health and contributes to the reuse of secondary raw materials.

Through its contractual partner **ASEKOL a.s.**, the company ensures the take-back of waste electrical equipment from households and the separate collection of waste electrical equipment, batteries and accumulators in accordance with the applicable legislation. The customer is entitled to hand over old electrical equipment or a battery or accumulator at any collection point of the above contractual partner. The addresses of these take-back points are listed at www.asekol.cz, www.ecobat.cz and also https://visoh2.mzp.cz/RegistrMistZO/RegistrMistZOPublic/MapaMistZpetOdberu.

4. Warranty and rights arising from defective performance

The rights and obligations of the contracting parties are governed by Czech law, in particular by Act No. 89/2012 Coll., the Civil Code, and Act No. 634/1992 Coll., on consumer protection.

- The seller is liable to the buyer for the product being free of defects on receipt. If the buyer is a consumer, a defect may be notified **within two years of receipt** of the product (Section 2165 of the Civil Code).
- If a defect appears within **one year** of receipt, the product is deemed to have been defective already at the time of receipt (Section 2161(5) of the Civil Code).
- When purchasing online, a consumer has the right to **withdraw from the contract within 14 days** of receiving the goods without giving a reason (Section 1829 of the Civil Code).
- Claims should be made with the retailer from whom you purchased the product. The importer's contact details are given in Chapter 3.1.
- The competent body for out-of-court settlement of consumer disputes is the **Czech Trade Inspection Authority**, Štěpánská 796/44, 110 00 Prague 1, www.coi.cz.