Johnny 5" V2 – Parts

Readytosky – spare parts for the Johnny 5" V2 frame
User manual



Read this entire manual carefully before assembly, especially the safety instructions in chapter 2.1. Keep this manual for future reference.

Rotorama, s.r.o. · www.rotorama.com · info@rotorama.cz

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1. Product description

1.1 Purpose

The **Johnny 5" V2 – Parts** product comprises spare and accessory parts for the five-inch **Readytosky Johnny 5" V2** carbon frame, which is designed mainly for freestyle flying. It is sold in three variants: **5" carbon arm**, **3D-printed SMA antenna mount** and **small parts kit** for building the drone.

The carbon arm replaces a cracked or otherwise damaged arm of the frame. The SMA antenna mount holds the SMA connector of the video transmitter antenna pigtail at the rear of the frame. The small parts kit contains heat-shrink tubes, cable ties and capacitor wires for building a drone on this frame.



Drone built on the Johnny 5" V2 frame (motors, electronics and propellers are not included)

1.2 Technical data and package contents

Product designation	Johnny 5" V2 – Parts
Intended for	Readytosky Johnny 5" V2 frame
Weight, dimensions	not specified by the manufacturer

Variant	Package contents
5" arm	1× carbon arm (carbon composite, 5 mm thick)
SMA antenna mount	1× 3D-printed SMA antenna mount
Small parts kit	1× receiver heat-shrink tube 2× antenna tube 2× cable tie (zip tie), small 4× cable tie (zip tie), large 2× capacitor wire

Not included: screws, nuts and standoffs (use the frame hardware), motor, SMA antenna pigtail, antenna, capacitor or any electronics. The package contains only the part of the selected variant.



Variants 5" arm and SMA antenna mount



Small parts kit variant

※ The manual for the Johnny 5" V2 frame itself can be downloaded from the frame product page at www.rotorama.com. A detailed step-by-step photo guide to building the complete drone can be found in the tutorial Rotorama – Stavba Johnny 5″ V2 (in Czech).

2. Use

2.1 Safety during assembly

- Before any work on the drone, **disconnect the battery and remove the propellers**. Rotating propellers can cause serious injury.
- Carbon is **electrically conductive**. All electrical components (receiver, wires, solder joints) must be insulated from the frame, otherwise there is a risk of short circuit and fire.
- The edges of carbon parts may be sharp. Do not sand, drill or cut carbon parts without protection – the dust irritates the skin and respiratory tract and is conductive.
- The package contains small parts that could be swallowed. Keep them out of the reach of children and animals. The product is not intended for children.
- When shrinking tubes and soldering, work on a non-flammable surface and take care not to overheat nearby wires and components.
- When operating the drone, follow the regulations of the country in which you fly – the law of the country of operation always prevails.

2.2 Replacing the carbon arm

A cracked arm or an arm with delaminated carbon has reduced strength and must be replaced.

① Disconnect the battery and remove the propellers.

② Remove the tape holding the motor wires to the arm and unscrew the motor from the damaged arm.

③ Loosen and remove the nuts of the screws that clamp the arms between the bottom and middle plates of the frame, and lift the middle plate just enough to remove the damaged arm from the screws. Depending on the build layout, you may first need to remove the top plate and other parts.

④ Slide the new arm onto the screws and refit the middle plate and nuts. Tighten all 8 screws gradually and evenly in a crosswise pattern.

⑤ Screw the motor onto the end of the arm so that its wires point towards the centre of the frame. Use the screws supplied with the motor: a screw that is too short will strip the thread, a screw that is too long can penetrate the windings and destroy the motor.

⑥ Secure the motor wires with insulating tape in at least two places – at the motor and at the frame.

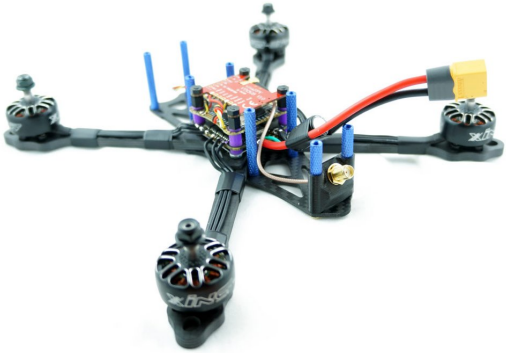
2.3 Mounting the SMA antenna mount

① Insert the SMA connector of the antenna pigtail into the hole in the 3D-printed mount. Fit the washer onto the connector and tighten the nut firmly.

② Push the mount onto the rear standoffs of the frame so that the SMA connector points diagonally upwards and away from the drone. Pushing it onto the standoffs requires force; fit the part from below so that it stays at the bottom.

③ Route the battery power lead above the SMA antenna connector.

④ Screw the antenna onto the SMA connector. Never switch on the video transmitter without an antenna connected.



SMA antenna mount fitted on the rear standoffs of the frame

2.4 Using the small parts kit

▶ Receiver heat-shrink tube

The clear heat-shrink tube insulates the RC receiver from the conductive carbon frame. After soldering the wires, slide the receiver into the tube and shrink it with a hot air gun or carefully with a lighter.



RC receiver in a clear heat-shrink tube (receiver not included)

▶ Antenna tubes and cable ties

The black heat-shrink antenna tubes are used to secure the thin antennas of the RC receiver. Typically, the antenna is inserted into the tube together with a large cable tie attached to the frame and the tube is shrunk – the antenna then stays upright and out of reach of the propellers. Also use the cable ties to secure wires; trim the protruding ends.

▶ Capacitor wires

The flexible silicone-insulated wires allow the capacitor to be connected to the power input of the electronic speed controller (ESC) so that it can move freely and its legs do not break. The capacitor is not included; it is usually supplied with the ESC.

① Shorten the capacitor legs to approx. 1–2 mm, tin them and solder the wires to them.

② Fasten the capacitor with its wires to the main XT60 power leads using insulating tape.

③ Shorten, tin and solder the wires to the same ESC pads as the main power leads. Leave them a little slack so that the capacitor does not pull on the wires.

Observe the polarity of the capacitor. The stripe on the capacitor marks the negative lead, which must be connected to the ESC pad marked minus.



Capacitor with soldered wires (capacitor not included)

2.5 Check after assembly

- All frame and motor screws are tightened and the arms are not cracked.
- Electrical components are insulated from the carbon and no wire chafes against the edge of a plate.
- The propellers spin freely and no wire or antenna can get caught in them – especially the battery power lead.
- The video transmitter antenna is firmly screwed onto the SMA connector.
- After replacing an arm or motor, check the motor order and direction of rotation without propellers in Betaflight Configurator (*Motors* tab).

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

The product is a mechanical part with no electrical function. It is not covered by any EU harmonisation legislation requiring CE marking and therefore does not bear this marking. The safety of the product is assessed under Regulation (EU) 2023/988 (GPSR).

3.2 Disposal

- The parts are not electrical equipment and are not subject to take-back of electrical equipment.
- Dispose of the wires at a metal collection point or a municipal collection yard and the plastic parts (mount, heat-shrink tubes, cable ties) as sorted waste according to your local rules. Dispose of carbon parts according to your local rules (collection yard or mixed waste). Do not burn carbon.
- Dispose of the packaging as sorted waste.

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.