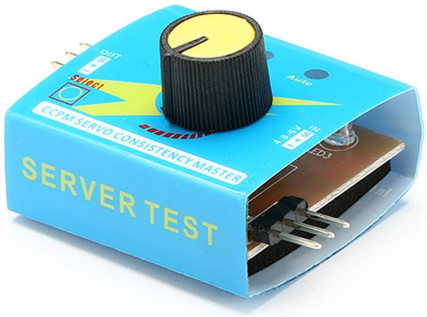
Servo tester

User manual
Tester for servos and speed controllers (ESC)



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

www.rotorama.com

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1. Product description

1.1 What it is for

The servo tester is used for quick testing of servos and electronic speed controllers (ESC) without a radio transmitter and receiver. It generates a control signal in the range of 1000–2000 µs, so you can check that a servo moves smoothly over its full range, compare the neutral (centre) position of several servos or centre a servo before fitting the servo arm.

The tester has three modes – manual, neutral and automatic – and up to three servos can be connected at the same time. It is useful when building and maintaining aeroplanes, helicopters and other RC models, when checking servos before the season and when looking for a faulty servo or speed controller.



Servo tester

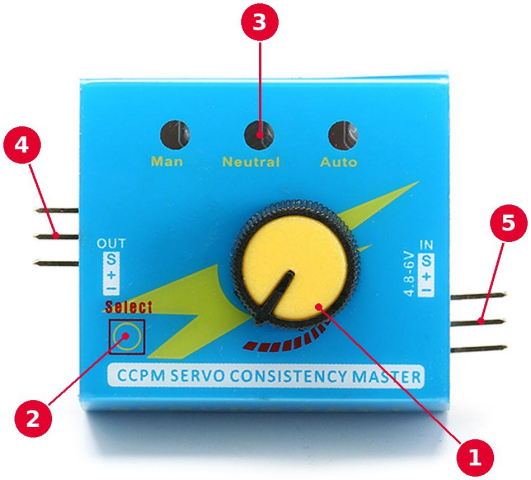
1.2 Technical data and package contents

Product designation	Servo tester (marking on the product: CCPM Servo Consistency Master)
Supply voltage	4.8–6 V
Output signal	1000–2000 µs
Number of outputs	up to 3 servos or ESCs at the same time
Modes	manual (Man), neutral (Neutral), automatic (Auto)
Dimensions	46 × 32 × 16 mm
Weight	9 g
Package contents	1× servo tester

The package does **not** include a power source (battery or BEC), connecting cables or servos.

2. Use

2.1 Controls and connectors



Front view

① **Rotary knob** – sets the servo position in manual mode.

② **Select button** – switches between modes.

③ **Man, Neutral, Auto indicators** – show the selected mode.

④ **OUT output (S, +, −)** – connection of servos or ESCs.

⑤ **IN input (4.8–6 V, S, +, −)** – power supply connection.

2.2 Safety and power supply

- Power the tester only with a voltage of **4.8–6 V**, e.g. from a receiver battery or a BEC. Never connect a battery with a higher voltage directly, for example a 2S Li-Po (8.4 V when fully charged, i.e. 4.20 V/cell).
- Observe the polarity: negative wire to the **−** pin, positive wire to the **+** pin, signal to the **S** pin. Reversing the polarity may damage both the tester and the servo.
- Make sure that the connected servos can withstand the supply voltage you feed to the tester.
- In automatic mode, a servo installed in a model may travel all the way to its end positions. If the pushrod or control surface would hit a stop, remove the servo arm before testing.
- The tester has no closed housing and the circuit board is partly exposed. Protect it from moisture and do not place it on metal objects – risk of short circuit.

2.3 Connection

① Plug the servo connector onto the **OUT** output so that the signal wire (usually white, yellow or orange) is at the **S** pin and the negative wire (black or brown) at the **−** pin. Connect further servos in the same way.

② Connect a 4.8–6 V power source to the **IN** input with the same orientation (S, +, −) as marked on the label.

③ When power is connected, the indicator of the current mode lights up.

④ Select the required mode with the **Select** button.

2.4 Tester modes

Mode	Function
Man (manual)	The servo follows the position of the knob. Turn the knob at different speeds and watch how quickly and smoothly the servo responds.
Neutral (neutral)	The servo moves to the neutral (centre) position. Used to compare the centre of several servos and to fit the servo arm.
Auto (automatic)	The servo moves back and forth by itself like a windscreen wiper over its largest range. Suitable for a longer check of operation and gears.

During the test, check that the servo moves smoothly, makes no unusual noise and does not heat up. A servo that jerks, jitters at rest or sticks in a certain position may have worn gears or a faulty potentiometer.

2.5 Testing a speed controller (ESC)

Always remove the propeller and secure the motor firmly before testing an ESC.

- Connect the ESC signal cable to the **OUT** output in the same way as a servo.
- Do not connect two voltage sources against each other. If the ESC has a built-in BEC and you power the tester from the IN input, disconnect the positive (red) wire of the ESC signal cable.
- Before connecting the battery to the ESC, select manual mode (Man) and turn the knob to the position in which the motor stands still (minimum throttle).
- **Caution:** in Neutral and Auto modes the ESC receives a centre or varying signal – a unidirectional ESC will spin the motor in these modes.
- After the test, disconnect the battery from the ESC first and only then the tester.

2.6 After use

- Disconnect the power supply and the connected servos.
- Store the tester in a dry place and protect the pins from bending.

3. Information for the EU and Czech Market

The information in Chapters 3 and 4 describes the situation under the law of the Czech Republic. If you use the product in another country, the law of the country in which the product is used is decisive.

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.