Z pushrod 20 cm / 1.2 mm

Steel pushrod with Z-bend end – set of 10 pcs
User manual



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

www.rotorama.com

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1. Product description

1.1 Intended use

The Z-bend pushrod is a steel wire with a diameter of 1.2 mm and a length of 20 cm, one end of which is bent into the shape of the letter Z. It transmits movement from the servo arm to the control horn – elevator, rudder or ailerons – on RC aircraft and other models.

The Z-bend is hooked into a hole in the servo arm or control horn and stays in place without any additional parts. The other, straight end is cut to the required length and connected to the opposite arm – with a pushrod connector, a clevis or a bend of your own.



Set of pushrods – a Z-bend on one end, the other end is straight

1.2 Technical data and package contents

Product designation	Z Táhlo 20cm 1.2mm (10ks)
Type	pushrod with Z-bend end
Material	steel
Length	20 cm
Wire diameter	1.2 mm
Weight	1.8 g (1 pc)
Package contents	10× pushrod
Not included	servo, servo arms and control horns, pushrod connectors, clevises, guide tube (Bowden), tools

2. Use

2.1 What you will need

- a servo with a servo arm and a control horn with holes for 1.2 mm wire,
- a pushrod connector (stopper) or a clevis for the straight end – or just pliers to make your own bend,
- side cutters and flat-nose pliers,
- for a longer or angled run, a guide tube (Bowden) that prevents the pushrod from flexing.

2.2 Installing the pushrod

① Connect the servo to the receiver and set it to the centre position using the radio or a servo tester.

② Hook the Z-bend into the selected hole of the servo arm: tilt the wire, pass the bend through the hole and straighten the pushrod by rotating it. This is easier before the arm is fitted to the servo.

③ Fit the arm to the servo so that it is perpendicular to the pushrod in the centre position, and secure it with the screw.

④ Set the control surface to neutral and fix it temporarily, for example with adhesive tape.

⑤ Route the pushrod as straight as possible to the control horn. Mark the required length at the control surface side and cut off the excess wire.

⑥ Connect the straight end to the control horn – with a pushrod connector with its screw tightened, a clevis with a safety clip, or your own bend (Z or L with a keeper) made with pliers.

⑦ Remove the temporary fixing of the control surface, switch on the RC system and check the direction and range of the deflections.

2.3 Checking and adjustment

- The control surface must move freely, without binding and without noticeable play in the holes of the arms.
- In the end positions the servo must not hit its mechanical stop (buzz). If it does, reduce the travel in the radio or move the pushrod to a different hole.
- A servo arm hole closer to the servo axis, or a control horn hole further from the hinge line, gives a smaller deflection and more force – and vice versa.
- Fine-tune the neutral position by sliding the wire in the pushrod connector or with subtrim in the radio.

2.4 Safety and maintenance

- Cut wire ends are sharp and may fly off when cutting – protect your eyes and hands.
- This product is not a toy. Keep small sharp parts out of the reach of children.
- Before every flight, check that the pushrod is not bent and that the connections are secure.
- Replace a bent pushrod or one that has been bent back and forth repeatedly – repeated bending weakens the wire.
- Store the pushrods in a dry place and protect them from moisture.

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

The product is not electrical equipment and contains no batteries. Hand in unwanted pushrods as metal waste at a collection yard or scrap-metal collection point, and sort the packaging according to its material. Follow the waste management rules applicable where you use the product.

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.