21700 Battery Case

21700 battery case for RC radio transmitters
Manufacturer: Jumper · User manual



21700 cells are not included. Read this manual before first use.

Rotorama, s.r.o. · www.rotorama.com

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1. Product description

1.1 What it is for

The Jumper 21700 Battery Case is a case (holder) for two lithium-ion (Li-ion) rechargeable cells of size 21700. It is inserted into the battery compartment of an RC radio transmitter in place of the original cell holder and, together with two 21700 cells, forms the power source of the radio. Jumper lists it as an accessory for the **Jumper T18** series radios.

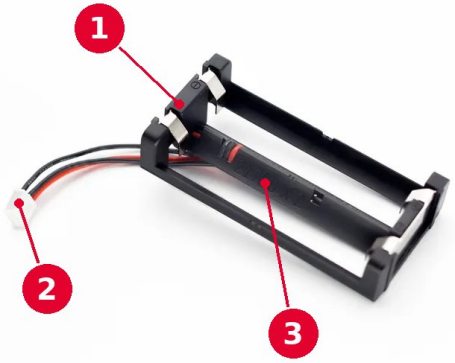
Compared with common 18650 cells, 21700 cells offer considerably higher capacity and can therefore extend the operating time of the radio per charge. The case ends in a lead with a **JST-XH** connector that connects it to the radio. According to Rotorama, the case with fitted cells also fits the **Jumper T20** and **RadioMaster Boxer** radios.



Case with two 21700 cells in the battery compartment of a radio (manufacturer's photo)

1.2 Technical data and package contents

Manufacturer	Jumper
Product designation	21700 Battery Case; the marking “21700 X2” is moulded into the case body
Intended for	Jumper T18 series radios (according to the manufacturer); according to Rotorama also Jumper T20 and RadioMaster Boxer
Cells	2× Li-ion rechargeable cell, size 21700
Output connector	JST-XH
Package contents	1× 21700 battery case
Not included	21700 cells, charger



Parts of the case

① Polarity marks ⊕ and ⊖ at each cell position

② JST-XH output connector

③ Product marking “21700 X2”

2. Use

2.1 Choosing the cells

- Insert only two **lithium-ion (Li-ion) cells of size 21700**. Do not use cells of any other size or type.
- Always use **two identical cells** – same manufacturer, type, capacity and age, ideally from the same batch. Do not mix new and used cells.
- Fully charge both cells before inserting them so that they have the same state of charge. Cells with a different state of charge or different capacity discharge unevenly in the set.
- Do not use cells with a damaged or scuffed wrapper (heat-shrink sleeve), or cells that are dented, swollen, leaking or corroded.
- Before buying cells, check that they fit the case dimensionally. The case is supplied without cells.

2.2 Inserting the cells

① Switch off the radio. If the case is in the radio, remove the battery compartment cover, disconnect the JST-XH connector and take the case out.

② Locate the polarity marks ⊕ and ⊖ at each cell position (① in the figure in Chapter 1.2).

③ Insert the first cell so that its positive terminal (+) is at the ⊕ mark and its negative terminal (−) at the ⊖ mark.

④ Insert the second cell in the same way. The cells lie in opposite directions to each other – always follow the marks at the given position, not the orientation

of the neighbouring cell.

⑤ Check that both cells sit along their full length and that the contacts touch the cell terminals.

A cell inserted the wrong way round can cause a short circuit, damage to the radio, overheating of the cell or fire. Always check the polarity of both cells before connecting the case.



Case with 21700 cells inserted (cells not included)

2.3 Installing in the radio

① Switch off the radio and remove the battery compartment cover.

② Remove the original cell holder or battery and disconnect its connector.

③ Plug the JST-XH connector of the case into the power connector in the radio. The connector is keyed – do not force it in or insert it the wrong way round.

④ Place the case with the cells into the compartment so that the lead is not pinched, and refit the cover. The cover must close without pressure; if it does not, check the position of the case and the lead.

⑤ Switch on the radio and check that it starts up normally and displays the supply voltage.

⑥ In the radio settings, check that the low-voltage warning matches the Li-ion cells used.

Battery compartments differ between radios. The manufacturer intends the case for the Jumper T18 series. With any other radio, check before use that the case with the cells fits and that the connector matches the power connector of the radio.

2.4 Charging

- Charge the cells either in the radio, if it has built-in charging and its manufacturer permits it for Li-ion cells, or take them out of the case and charge them in a charger designed for Li-ion cells of size 21700.
- Follow the instructions of the cell manufacturer and of the radio or charger manufacturer.

- Do not charge unattended, on a flammable surface or near flammable materials.
- Do not charge cells that are damaged or become excessively hot during charging.

2.5 Safety, care and storage

- Do not expose the case or the cells to high temperatures, direct sunlight (e.g. behind a car window), moisture or water.
- Never short-circuit the connector pins or the cell terminals. Do not carry loose cells in a pocket or bag together with metal objects.
- If the case or a cell becomes hot, deforms or gives off an odour during operation, switch off the radio immediately, carefully remove the cells and do not use them any further.
- Keep the contacts clean and dry. Deformed or corroded contacts, or a damaged lead or connector, are a reason to replace the case.
- When not in use for a longer period, remove the cells from the case and store them separately in a protective case, in a dry and cool place, out of the reach of children.
- Do not dispose of used cells in mixed waste or in fire – hand them over at a battery take-back point.

3. Information for the EU and Czech Market

The information in Chapters 3 and 4 reflects Czech law. For the operation of the product, the handling of rechargeable cells and waste disposal, the law of the country in which the product is operated 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.