Mobula 6 Frame

Happymodel · plastic frame for 65 mm tiny whoops
User Manual



Always disconnect the battery before working on the drone.

www.rotorama.com

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1. Product description

1.1 What it is for

The Happymodel Mobula 6 frame is a plastic frame for 65 mm brushless tiny whoops. A single lightweight moulding forms the drone's supporting structure, the motor mounts and the protective ducts around the propellers, which protect both the propellers and the surroundings in a crash.

The frame serves as a replacement part for the Happymodel **Mobula6**, **Mobula6 HD** and **Moblite6** quadcopters – typically after a crash that cracks a duct or an arm – and it can also be used as the basis of your own 65 mm whoop build. For the newer Mobula6 2024 and Mobula6 ECO 2024 models the manufacturer offers a separate frame; this frame is not listed as compatible with them.



The frame fitted to a Happymodel Moblite6 drone (photo: Happymodel)

1.2 Specifications and package contents

Product designation	Happymodel Mobula 6 frame (Mobula6 frame)
Manufacturer	Happymodel, No.3 North Fanggui RD, Qujiang District, Quzhou, 324002, Zhejiang, China · info@happymodel.cn · www.happymodel.cn
Diagonal motor spacing	65 mm
Weight	3 g
Material	plastic
Colour	white
Compatible models	Happymodel Mobula6, Mobula6 HD, Moblite6
Package contents	1× frame
Not included	screws, motors, flight controller (FC), propellers, camera, canopy, battery or tools

2. Use

2.1 Before you start

- Have ready a small Phillips screwdriver that fits the screws of your drone, a propeller removal tool and a clean work mat on which the tiny screws will not get lost.
- You transfer the screws, motors, flight controller (FC), canopy and camera from the original frame – they are not included.
- Look at or take a photo of the original assembly: the orientation of the flight controller (FC), the routing of the motor wires and the position of the propellers according to their direction of rotation.

※ Always disconnect the battery before starting work. The motors may spin up unexpectedly, and even the propellers of a small drone can cause cuts.

2.2 Replacing the frame

① Disconnect and remove the battery.

② Remove the propellers with the removal tool. Note which propeller belongs on which motor – propellers for clockwise and counter-clockwise motors are different.

③ Unscrew the canopy with the camera and the flight controller (FC). Do not pull on the wires; the connectors and solder joints are very delicate.

④ Loosen the motor screws and remove the motors from the frame's motor mounts. The motor wires remain soldered to the flight controller (FC).

⑤ Seat the motors in the new frame in the same positions and screw them in. Tighten screws into plastic gently so that the thread in the frame does not strip.

⑥ Screw on the flight controller (FC) in the same orientation as in the original frame and fit the canopy with the camera.

⑦ Route the motor wires so that they cannot reach the propellers, and fit the propellers in their original positions.

2.3 Checks after replacement

- Turn each propeller by hand – it must spin freely and must not touch the duct or any wires.
- Check that neither the flight controller (FC) nor the motors have any play and that no screw is missing.

- If you changed the orientation of the flight controller (FC) or the motor wiring, use Betaflight Configurator **with the propellers removed** to verify the motor order and direction of rotation (*Motors* tab) and the attitude orientation on the *Setup* tab.
- Start the first flight with a short hover low above the ground in a safe place and watch whether the drone oscillates and holds its heading.

※ Fly the drone in accordance with the regulations of the country in which you fly. The law of the country in which the product is operated always prevails.

2.4 Frame care

- After a crash, inspect the ducts and arms. Replace a cracked or deformed frame – a weakened spot easily breaks off in the next impact.
- Regularly remove dirt and hair wrapped around the motors; they increase the load on the motors.
- Do not leave the frame in direct sunlight, in a hot car or near heat sources – the plastic may deform.

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 frame is a purely plastic part without electronics or a battery, so it is not electrical equipment. Dispose of an unneeded or damaged frame in sorted waste according to the rules of the municipality in which you dispose of the product (usually plastics).

If you are disposing of the whole drone, hand in the electronics (flight controller, motors, camera) and batteries separately at a collection point for electrical equipment and batteries – never put them in mixed household 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.