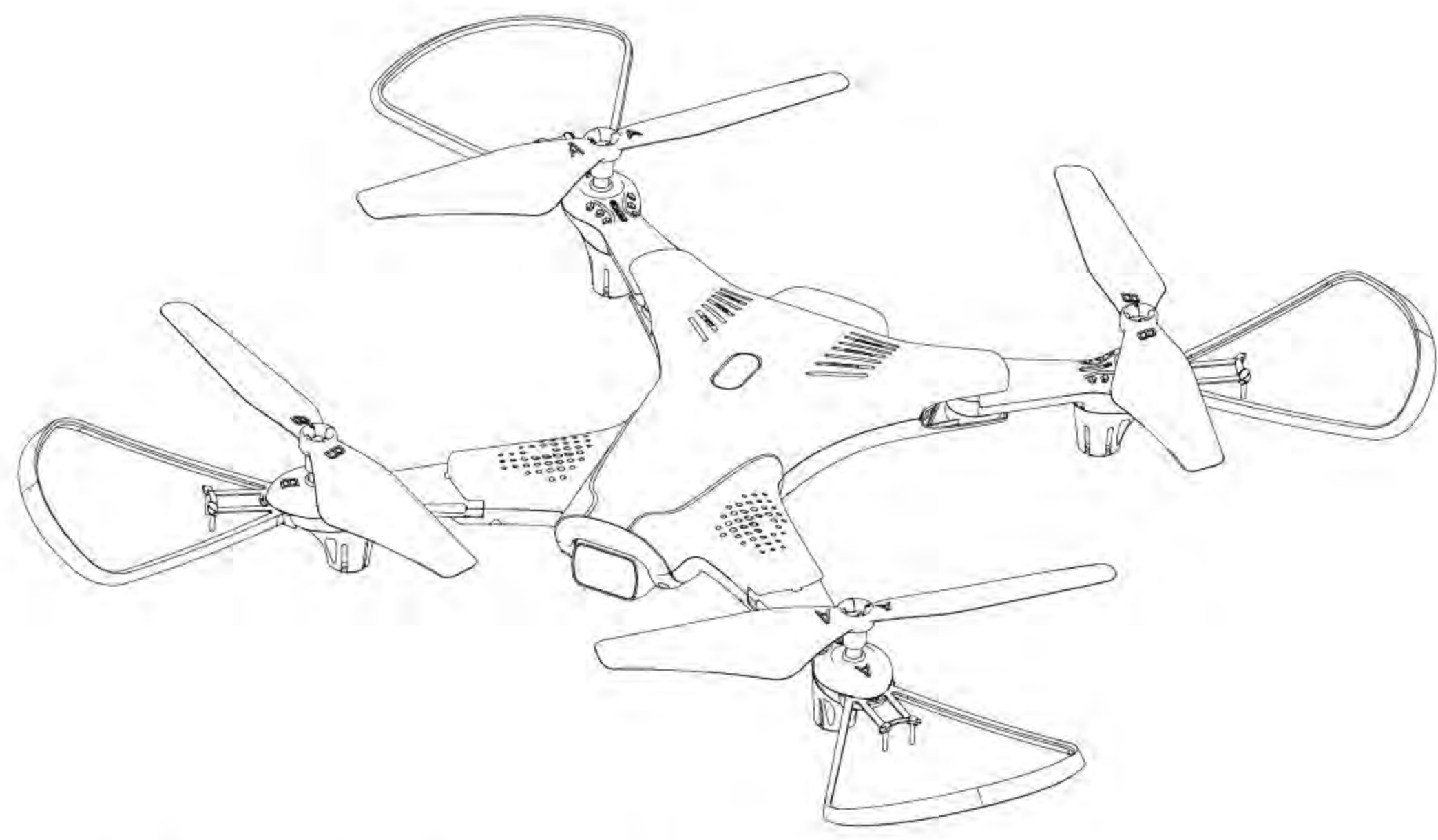


Z3Pro

Folding quadcopter



User Manual

Accreditation standard: GB/T26701-2011

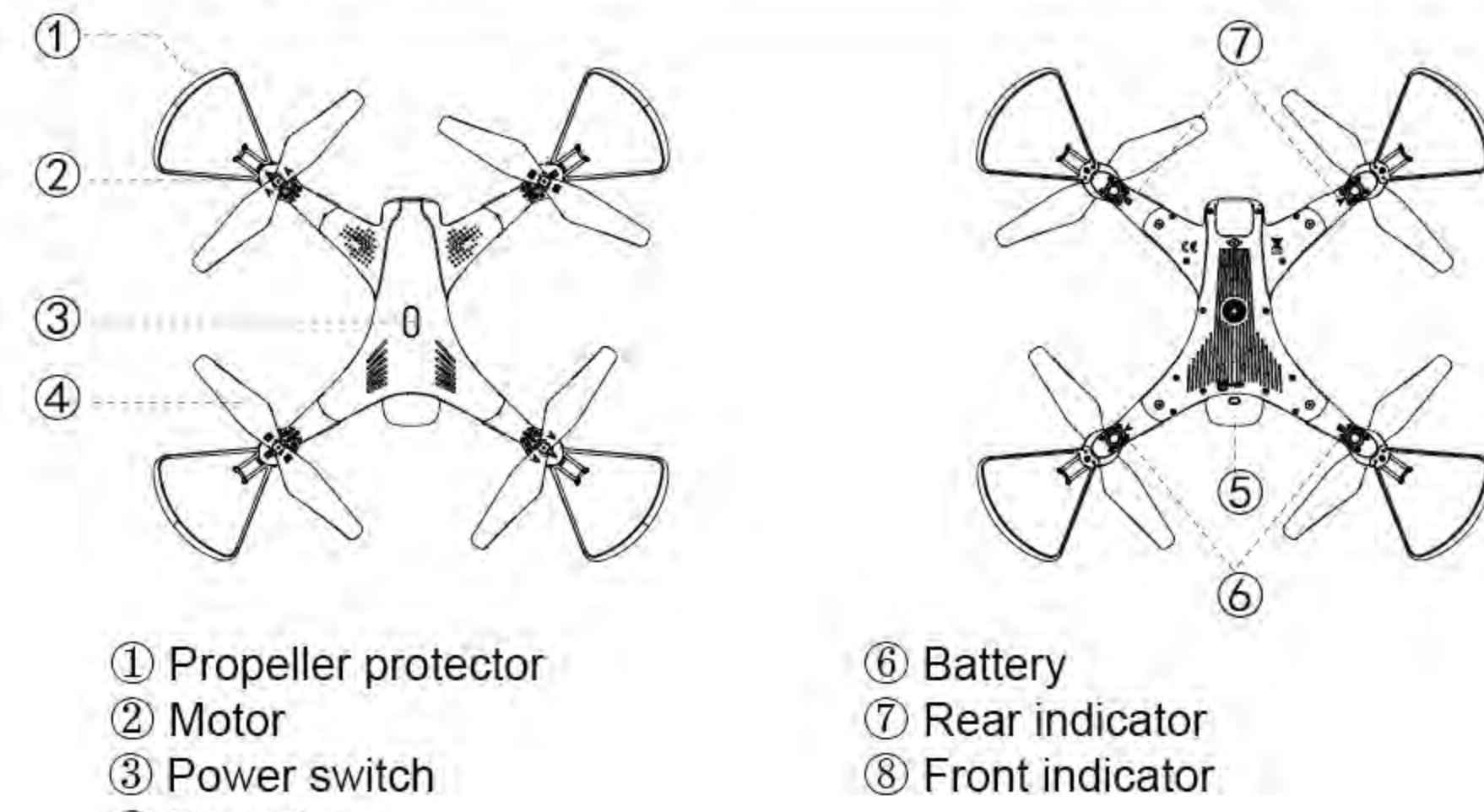
The materials, specifications, parts and packaging mentioned in this manual are for reference purposes only. We are not responsible for any changes made to this printed material, nor are we able to inform customers of any updates or changes. Please refer to the SYMA Toys website for the latest information.

- Safety information**
- * Keep the smaller-sized accessories out of the reach of children.
 - * This aircraft can move very quickly. When flying for the first time, push left joystick up slowly to prevent the aircraft from ascending too rapidly and causing damage or collisions.
 - * When the flight has ended, switch off the remote control before switching off the power on the aircraft.
 - * Do not store the battery in a hot environment (e.g. near open flames or a heating device).
 - * When the quadcopter is airborne, it should be kept at least 2-3m away from the pilot and other people to avoid the risk of a collision during landing.
 - * Children must be supervised by an adult when operating the aircraft. The aircraft should always remain within the line of sight of the pilot (or instructor).
 - * Do not recharge non-rechargeable batteries. When installing or changing the batteries, ensure that they are connected in the correct polarity. Do not mix old and new batteries or different types of batteries.
 - * Do not short circuit the battery terminals
 - * If you do not plan to use the quadcopter for at least 10 days, discharge the battery to 40%-50%(i.e. if the battery is fully charged, drive the quadcopter for half of the total driving time). This helps to prolong the lifespan of the battery.
 - * Maintain a safe distance from the spinning propellers to avoid the risk of injury.
 - * In order to prevent interference with air traffic control systems, it is forbidden to use remote controls within a 5000m radius of an airport runway (calculated from the centre of the runway). Always comply with remote control restriction orders issued by national authorities.
 - * You must only use the recommended transformer for this model. The transformer is not part of the model. Disconnect the model from the transformer or charger before cleaning with cleaning fluid. Regularly inspect the transformer's wires, plug socket, outer casing and other accessories to ensure that they are not damaged. If there are any signs of damage, discontinue use immediately until the fault has been repaired.
 - * After use, ensure that the quadcopter and remote control are switched off and remove the batteries in the remote control.
 - * The packaging and this manual contain important information and should be kept in a safe place for future reference.
 - * Do not look directly at the laser beam.
 - * a reminder that the toy must be used with caution since skill is required in order to control the flight and avoid collisions with the user, objects or third parties.
 - * precautions to be observed, such as "Do not touch the rotating rotor, avoid loose clothing or hair that could be caught in the rotor do not fly near the face"
 - * advice to adult supervisors ors to teach children how to safely fly and control the toy.
 - * conditions to be observed when using the toy
- Repair and maintenance**
- * Clean the product regularly with a clean, soft cloth.
 - * Avoid exposing the product to direct sunlight or heat.
 - * Do not submerge the product in water, as this may damage the electrical components.
 - * Regularly inspect the propellers, motor and battery. If there are any signs of damage, discontinue use immediately until the fault has been repaired.

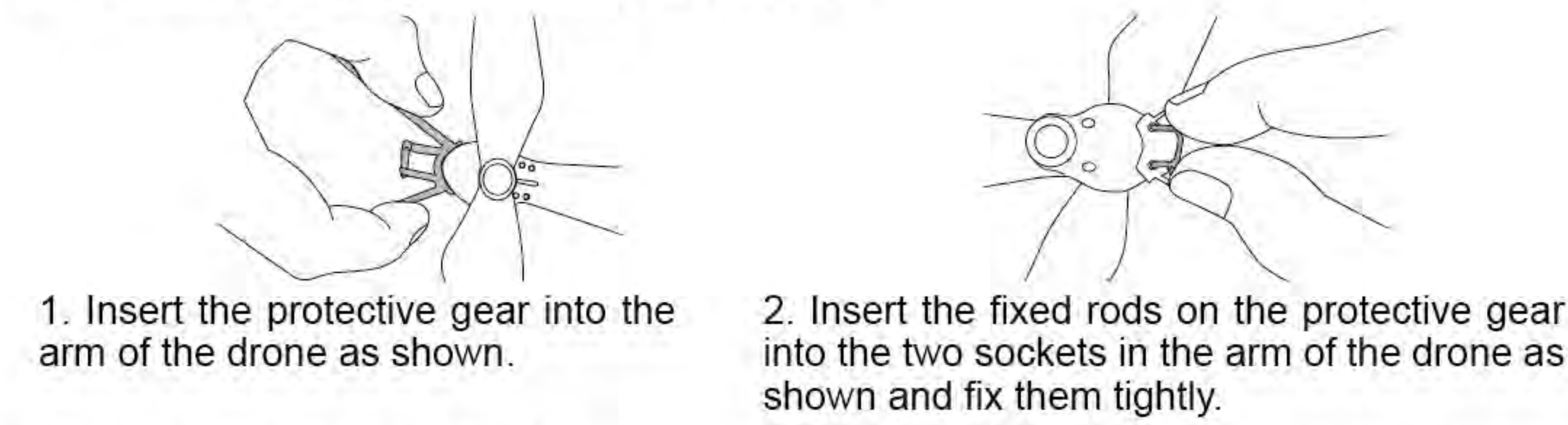
Specifications

• Aircraft	
Weight Aircraft	Approx. 141 g
Specifications	310x307x49 mm
Flight range	Approx. 50 m
Flight Altitude	Approx. 50 m
Flight time	Approx. 17 mins
Motor	ø 8
Battery	3.7 V, 1500 mAh
Battery Charging time	Approx. 110 min
• Remote control	
Operating frequency	2.4 GHz
Operating temperature	0°Cto 40°C
• Package contents	
Aircraft	1
Remote	1
Phone holder	1
USB charging cable	1
Propeller	2 (A/B)
Propeller protector	4
User manual	1

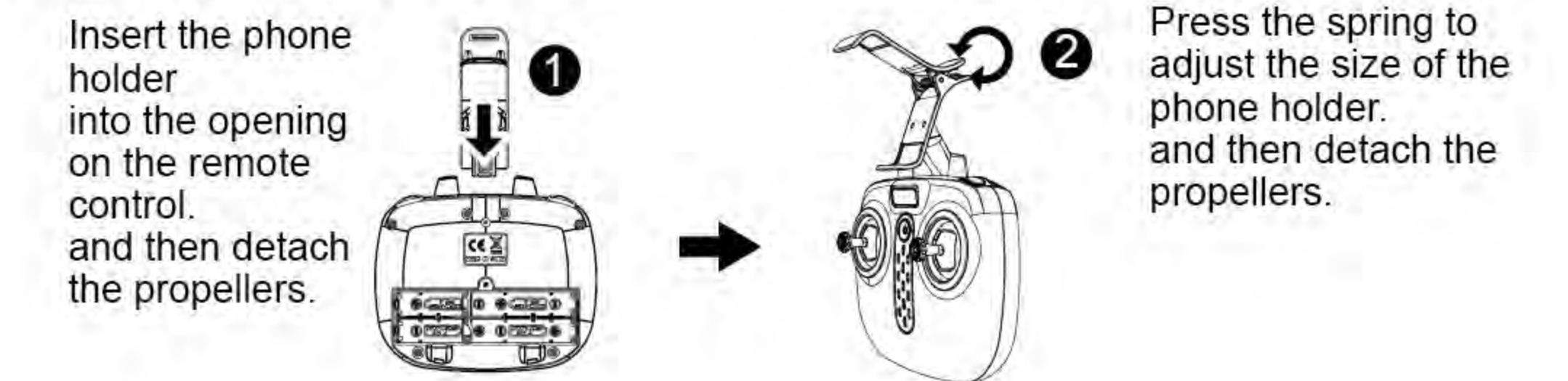
Aircraft components



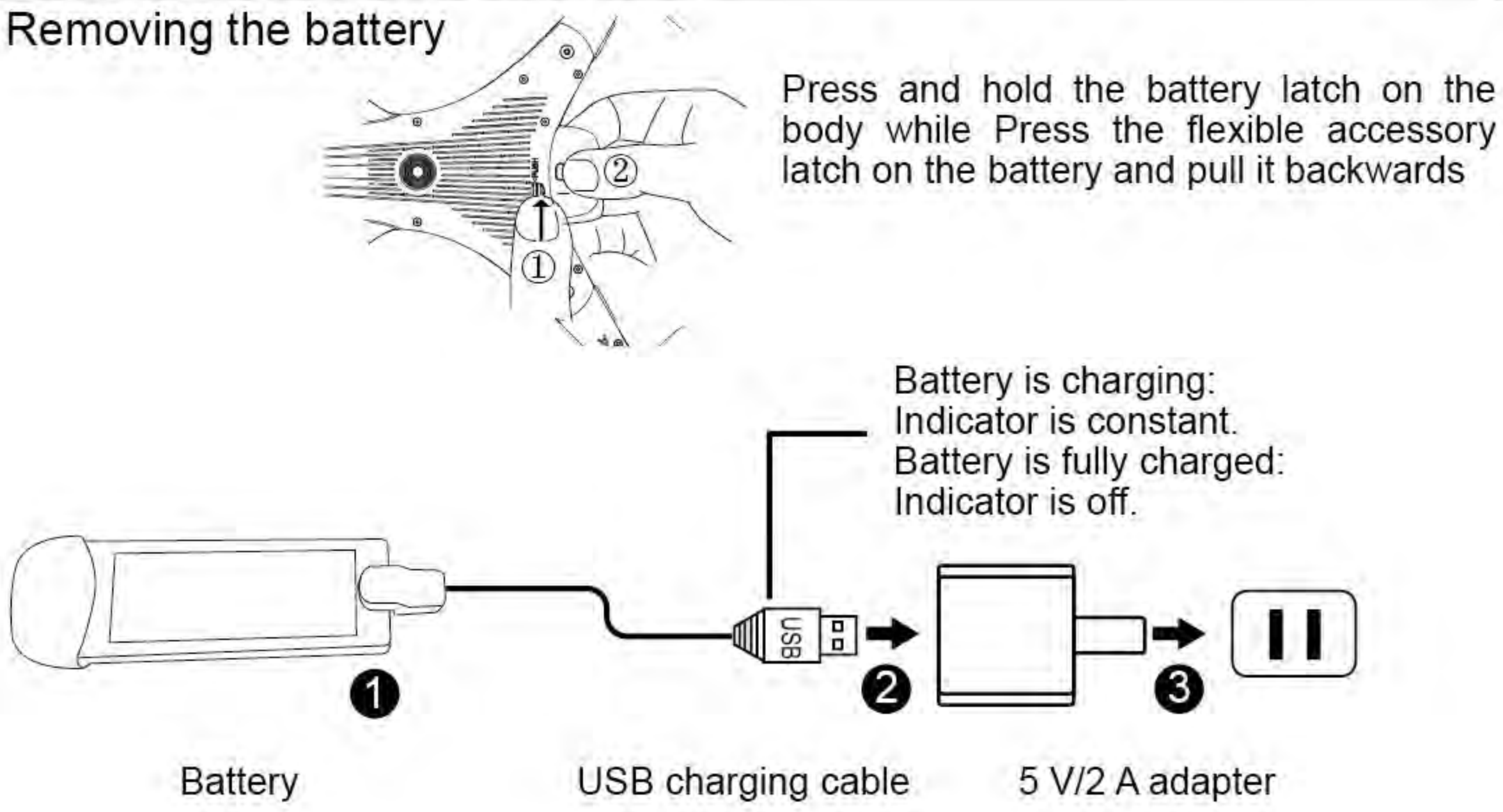
Protective Gear's Installation Methods



Attaching the phone holder



Charging the aircraft battery

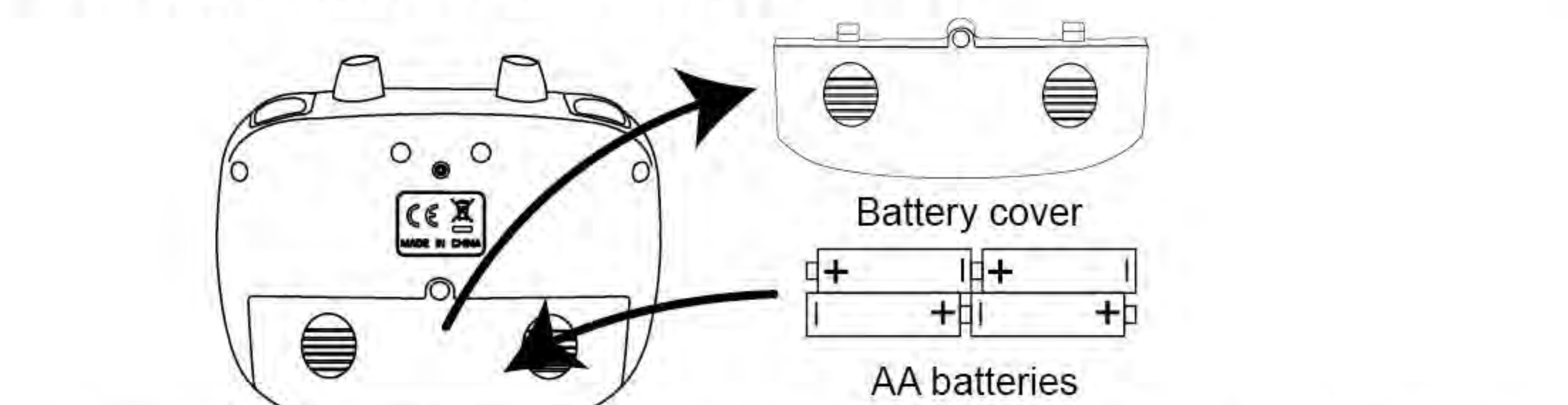


- * Charge the quadcopter with the USB charging cable that came with the product.
- * Using adapters with a lower rated current will result in a longer charging time.

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- * The toy is only to be connected to Class II equipment bearing the symbol
- * Do not short circuit or compress the battery, as this may cause an explosion.
- * Do not disassembling the battery or store it in a hot environment.
- * If you do not plan to use the aircraft for at least 10 days, discharge the battery to 40%-50%. This helps to prolong the lifespan of the battery.
- * Rechargeable batteries should be removed from the aircraft before charging charged.
- * Rechargeable batteries should only be charged under the supervision of adults, and keep away from flammable materials.
- * Exhausted batteries should be removed from the aircraft.
- * Caution: Risk of explosion if battery is replaced with incorrect ones, please install the batteries according to the instructions.

Inserting the remote control batteries:

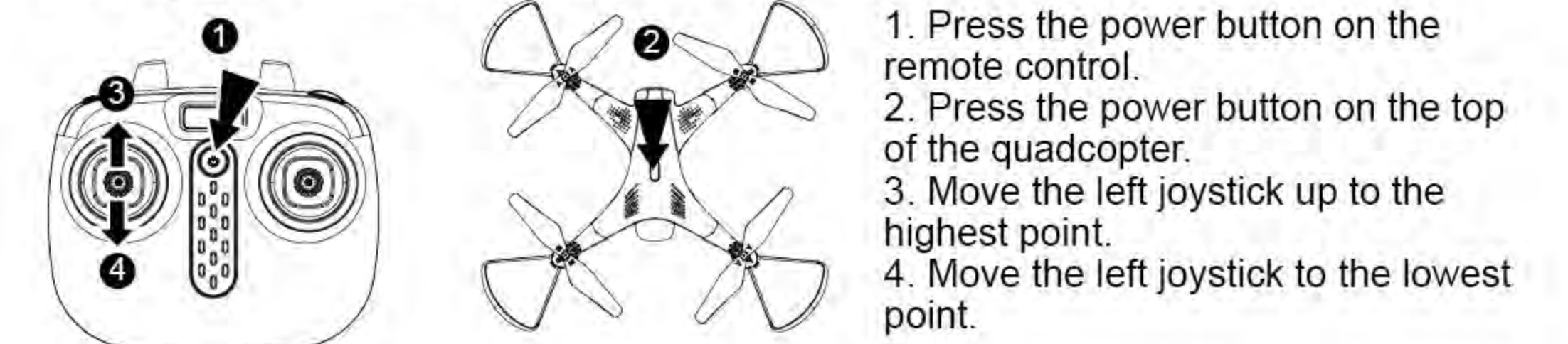


To insert batteries into the remote control, batteries, open the battery cover and insert 4 x AAA alkaline battery, ensuring that you observe the polarity markings (batteries are not included and must be purchased separately).

1. When installing the batteries, ensure that you match the + and - ends of the battery with the + and - signs on the controller.
2. Do not mix old and new batteries.
3. Do not mix different types of batteries.

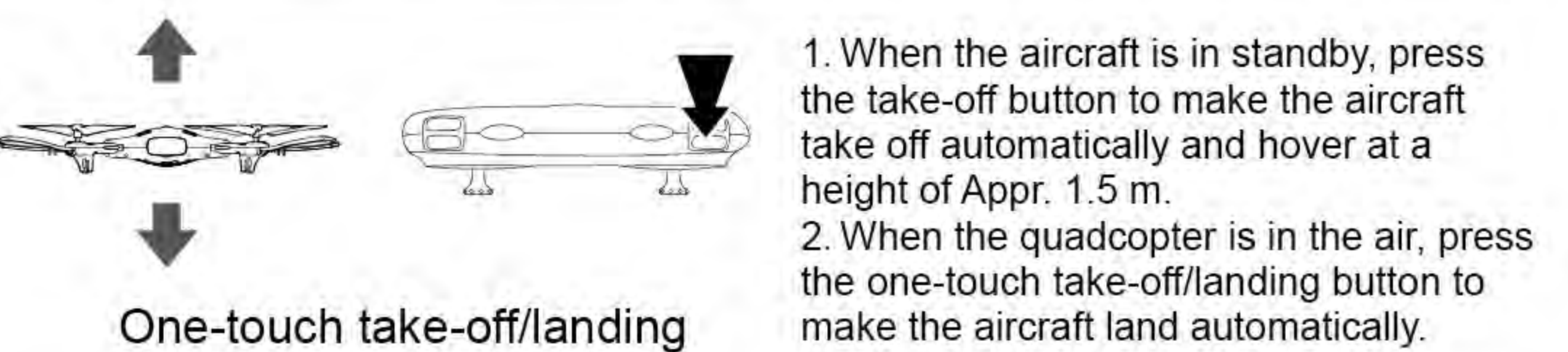
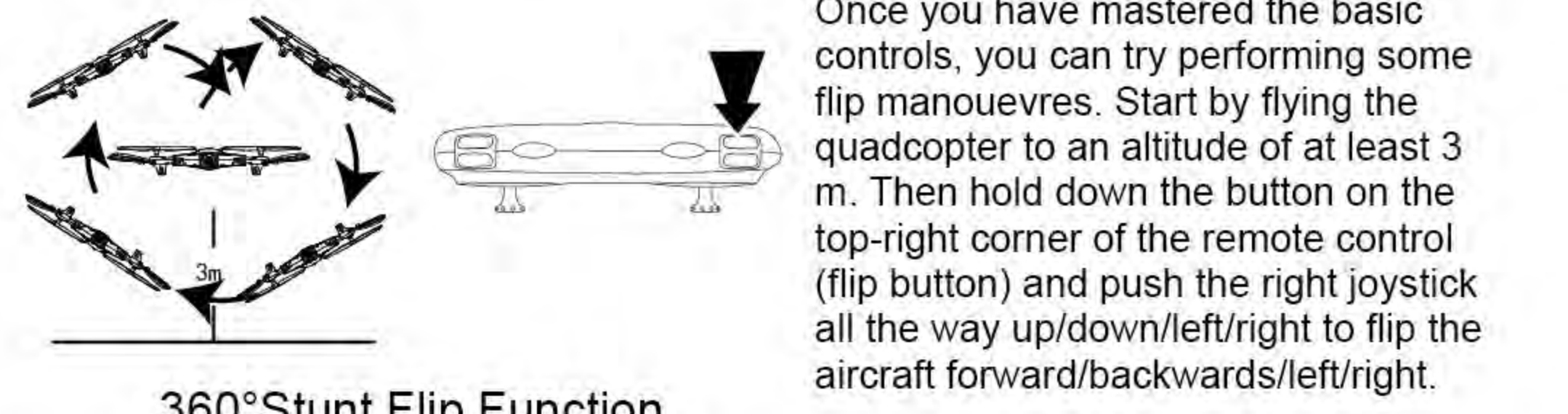
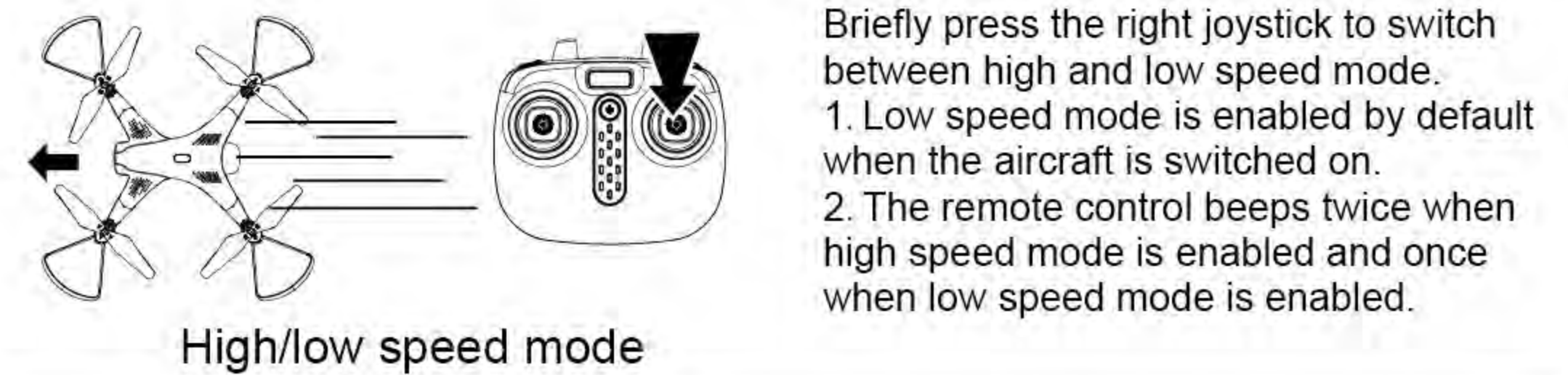
Flight preparation and turning the quadcopter ON and OFF

Pairing the remote control with the quadcopter



After you switch on the remote control, the indicator will flash quickly to indicate that the remote control is waiting to pair with the quadcopter.

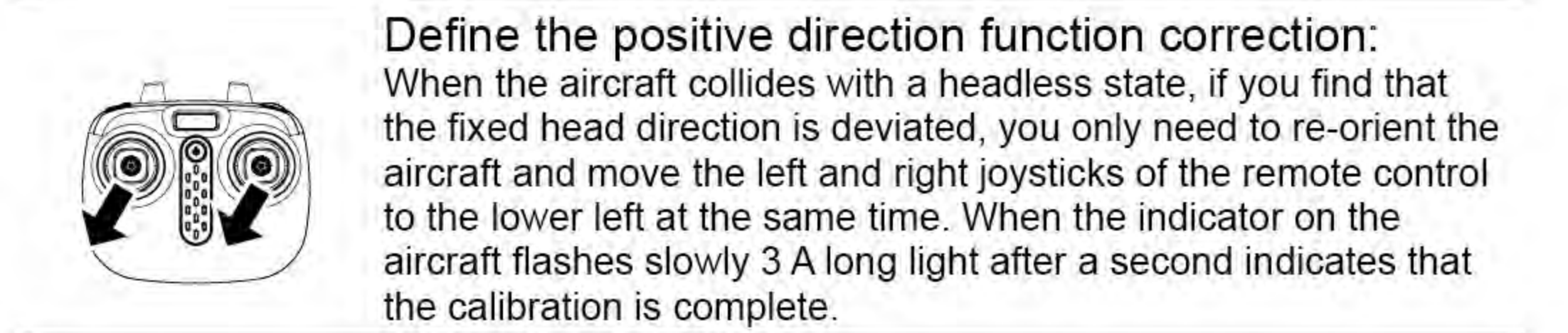
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1. Define the front
When the aircraft is powered on for the first time, the direction of the aircraft nose is straight ahead.
2. Start headless function

Headless mode
After the linking is completed, press and hold the right joystick (about 2S), the remote controller will emit a "dididi..." sound, and the indicator light on the aircraft will flash slowly, indicating that it has entered the headless state; press and hold the right joystick again (about 2S). When you hear a long beep, you will exit the headless state.
In the headless state, the controller does not need to identify the position of the aircraft's nose, but only needs to control the aircraft according to the direction of the joystick of the remote control.

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Define the positive direction function correction:
When the aircraft collides with a headless state, if you find that the fixed head direction is deviated, you only need to re-orient the aircraft and move the left and right joysticks of the remote control to the lower left at the same time. When the indicator on the aircraft flashes slowly 3 A long light after a second indicates that the calibration is complete.

Atmospheric pressure positioning
When you release the left joystick (throttle) after ascending/descending, the quadcopter will continue to hover at the current height.

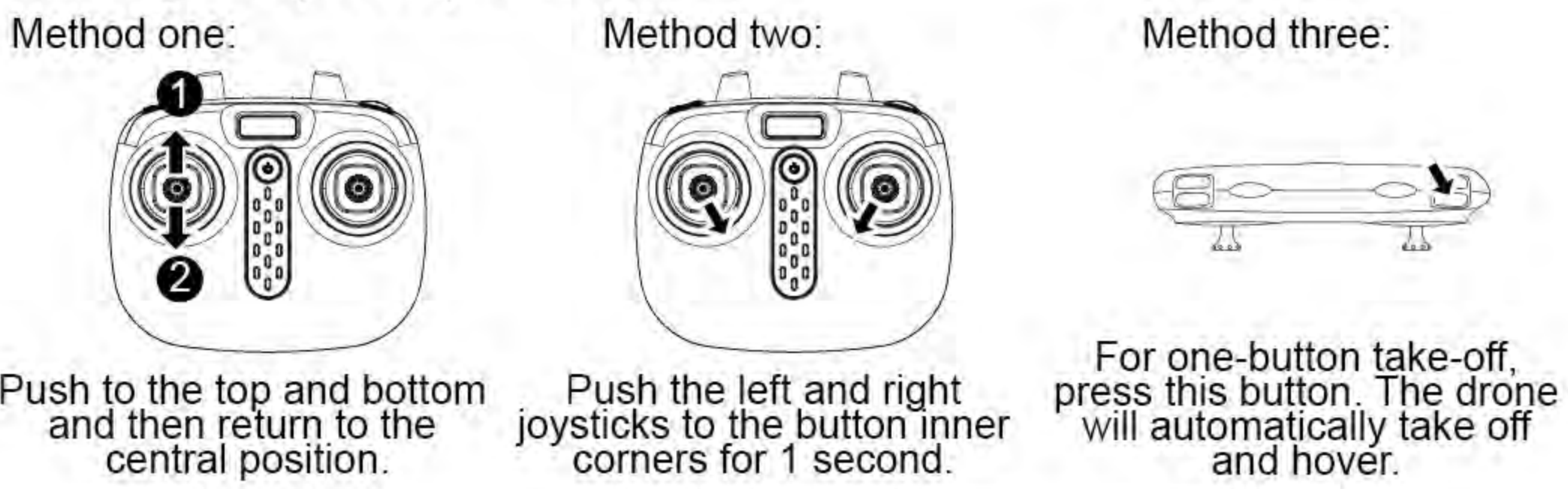
Optical flow hover function
When the drone is turned on, the drone will automatically start the optical flow positioning function when hovering in the air, and the drone will remain stationary at a certain point.

1. Achieve fixed-point accuracy of about 0.5 meters.
2. If the light is dark, the ground reflects, the height is greater than 12 meters, or the wind is above level 2, the optical flow positioning will be influenced under these conditions, at this time the indicator light of the drone will be flashing three times.

After you switch on the remote control, the indicator will flash quickly to indicate that the remote control is waiting to pair with the quadcopter.

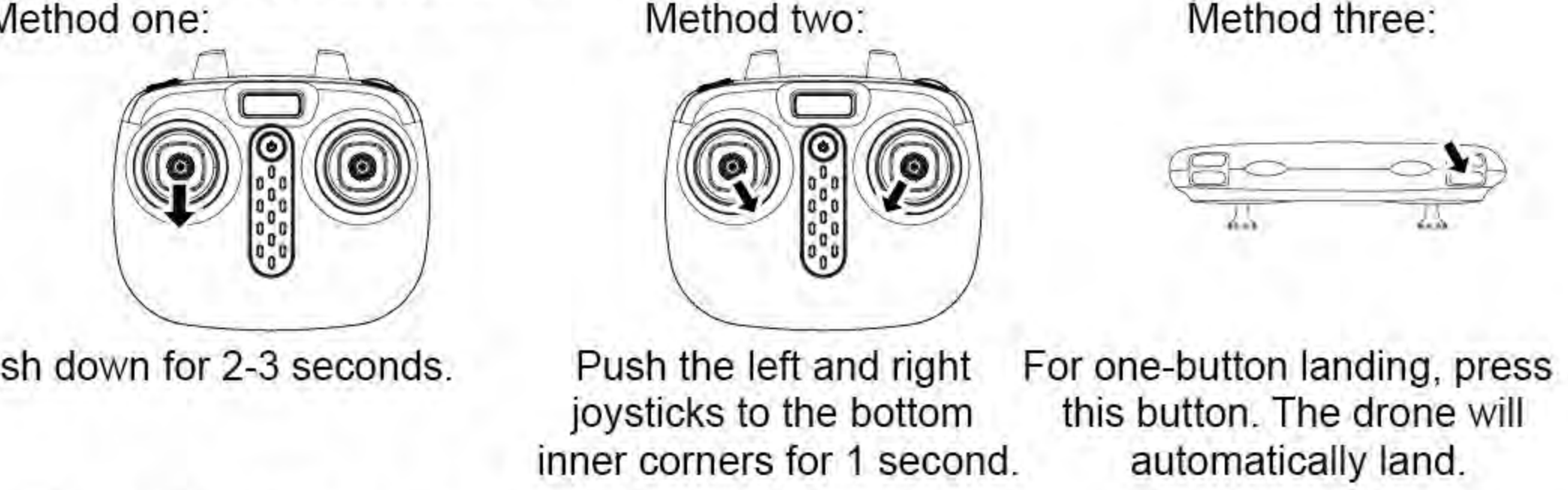
-9-

Turning the quadcopter on

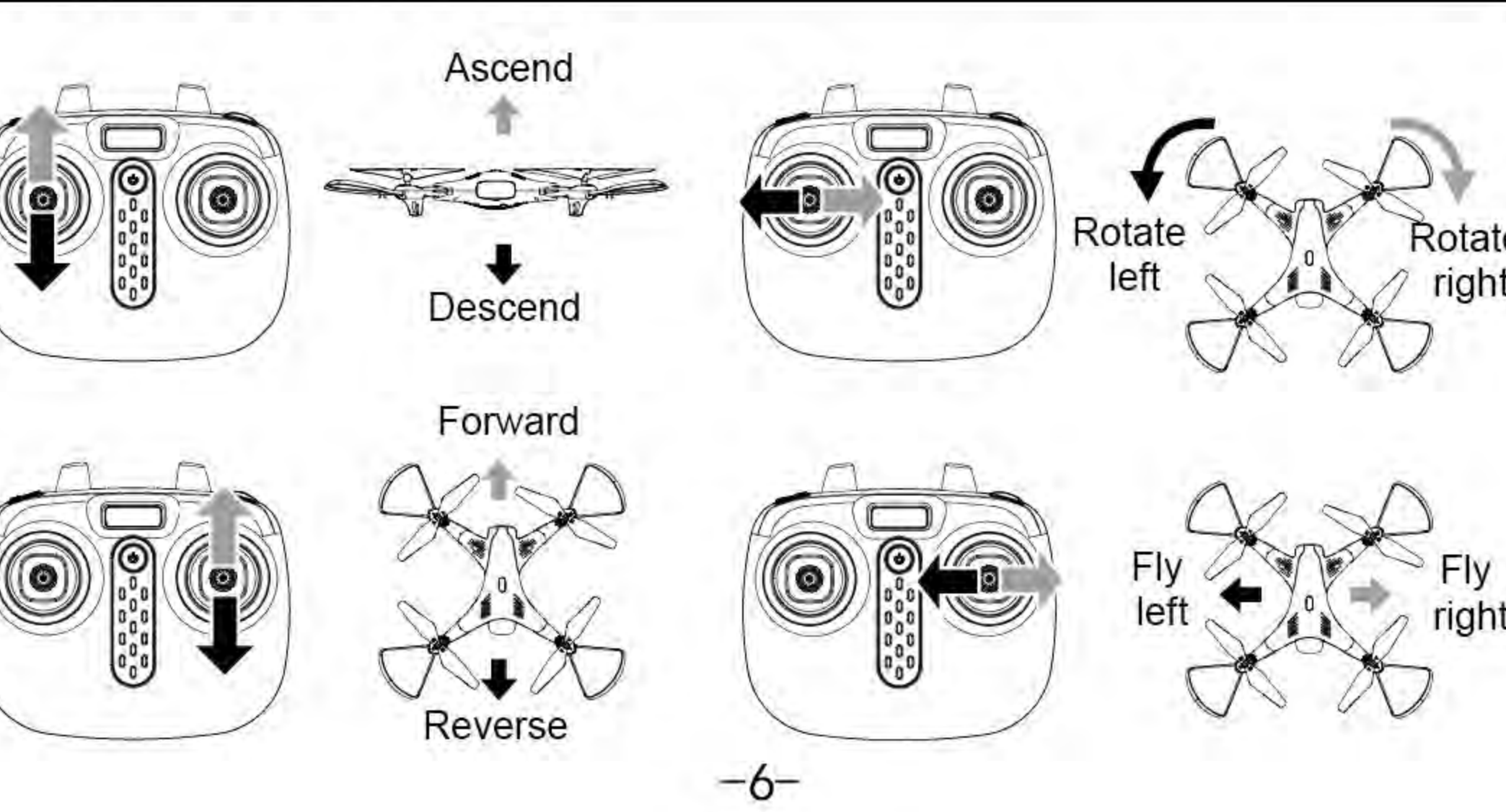


Note: 1. If the drone is flown out of range of the remote control, the indicator lights will flash slowly and the drone will land.
2. If the remote control suddenly turns off or runs out of power during flight, the drone will automatically land. If the remote control is turned back on during this process, you will be able to regain control of the drone.

Turning the quadcopter off



Using the remote control



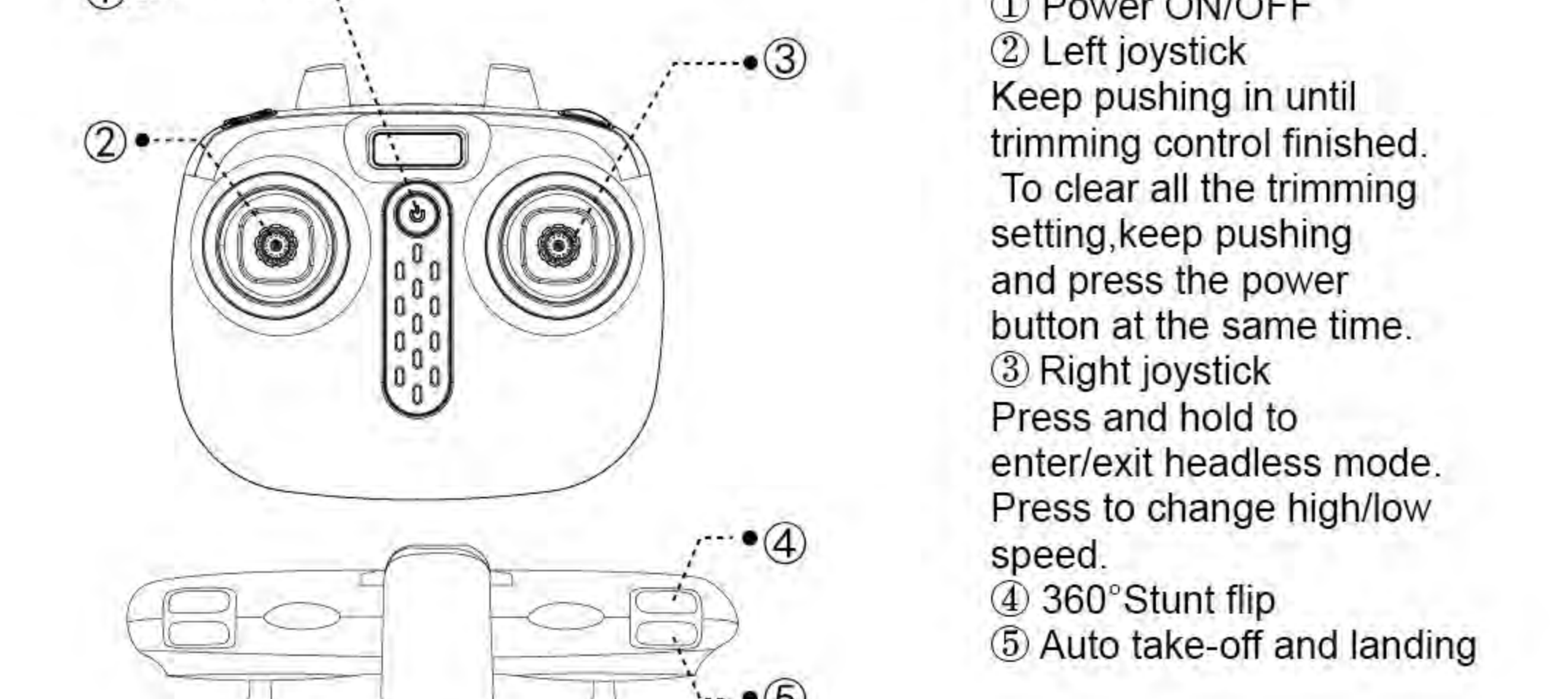
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Rectification Procedures

Problem	Reason	Solution
The drone has no response	1. The drone has entered into low-voltage protection. 2. When the power of the remote control is weak, the power light indicator will blink.	1. Charge up the drone. 2. Change the batteries of the remote control.
The flight response of the drone is not sensitive	1. The power of the remote control is weak. 2. There is an interference with the same frequency as that of the remote control.	1. Change the batteries. 2. Change to a place where there is no interference with the same frequency.
The drone is flying towards its side in one direction during hovering	The drone is not calibrated level to the ground.	Re-adjust the calibration until the drone is level to the ground. For further details,
In the headless state, it is biased towards the front direction	Many collisions may cause head drift.	Re-define the front direction. For further details,
Fixed high instability / up and down movement	1. The drone is not calibrated level to the ground. 2. Unstable air pressure under the severe weather condition. 3. Violent collision resulting in data disorder of gyroscope.	1. Re-adjust the calibration until the drone is level to the ground. For further details. 2. Avoid to fly under the severe weather condition. 3. Make level adjustment again,

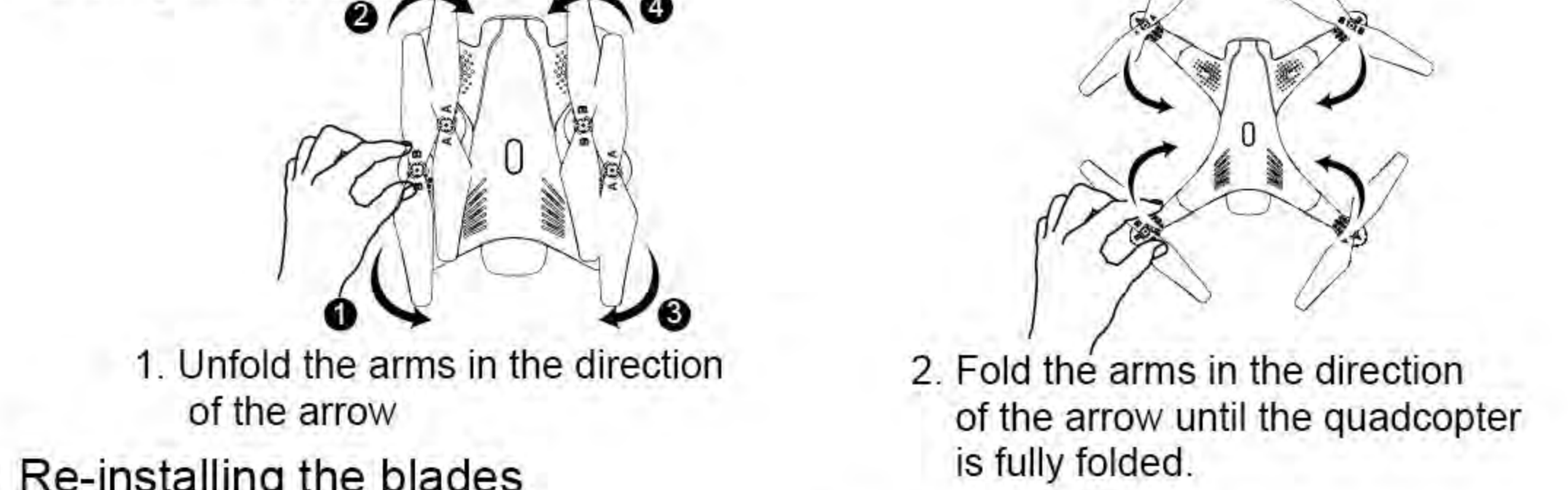
Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

The device has been evaluated to meet general RF exposure requirement.



Assembling the product

Folding the quadcopter

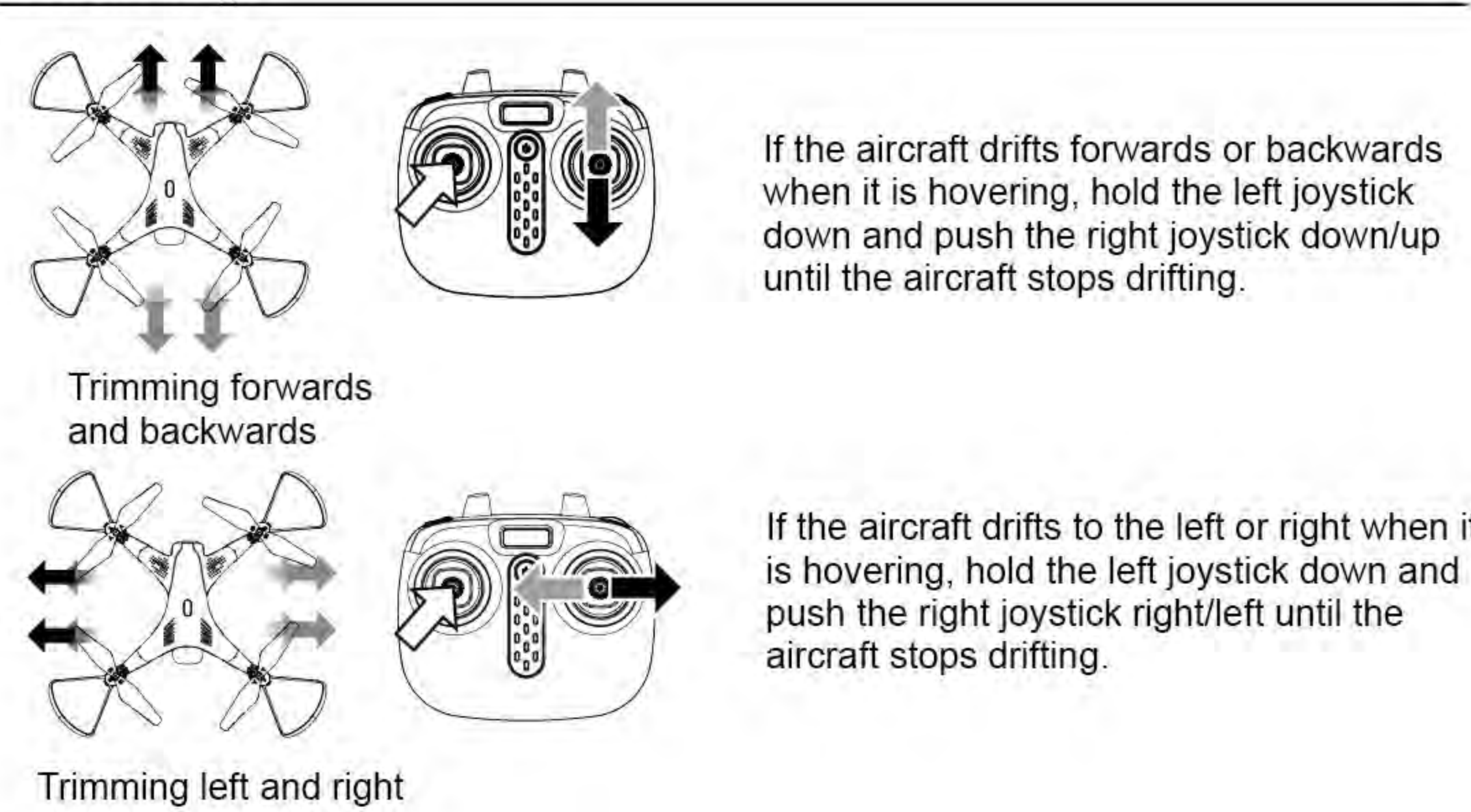


Re-installing the blades



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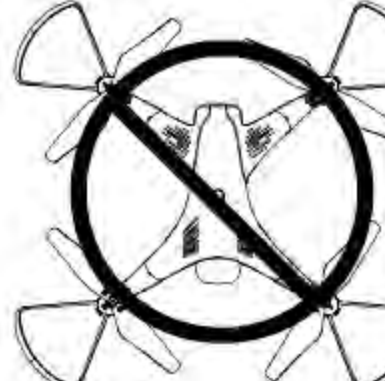
Trimming



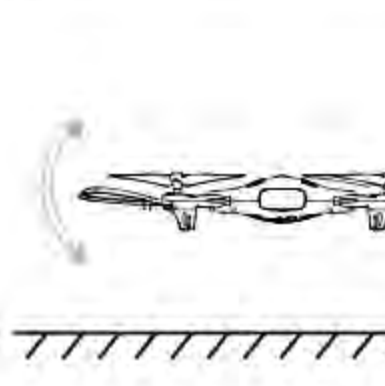
Function Introduction

Undervoltage

Undervoltage protection
A flashing light on the front and rear of the aircraft indicates that the battery level is low. When this occurs, bring the aircraft back to land.



Overcurrent protection
If the aircraft's blades collide with another object or become stuck, the aircraft's circuit will engage the overcurrent protection mechanism.



Level calibration

Place the aircraft on a level surface and move the left and right joysticks to the lower right corner for approximately 3 seconds. The indicator will flash rapidly and then stay constant to indicate that the calibration process is complete.

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Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
•Reorient or relocate the receiving antenna.
•Increase the separation between the equipment and receiver.
•Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
•Consult the dealer or an experienced radio/TV technician for help.

WIFI frequency band: 2410-2472MHz
RF frequency band 2410-2472MHz
Transmitter power: -4.09dBm (Max.)
Sold to EU country
product name: [Drone]
model number: [Z3 Pro]
Brand name :SYMA
Contact person: Ivan
Tel:+86-0754-86381701

Hereby, [GUANGDONG SYMA MODEL AIRCRAFT INDUSTRIAL CO., LTD], declares that this [aircraft] is in compliance with Directive 2014/53/EU.The full test of the EU declaration of conformity is available at the following internet address:
<http://www.symatoys.com/download/declaration-of-conformity.html>
SIMPLIFIED EU DECLARATION OF CONFORMITY

Manufacturer:
Guangdong SYMA Model Aircraft Industrial Co., Ltd.
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Sales department: +86 0754 86980668
After-sales service: +86 0754 86395095
Fax: +86 0754 86395098
Website: www.symatoys.com
Email: syma@symatoys.com

The company has the right of final interpretation of this user manual.

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