MINI DRAGONFLY GLIDER

2.4G R/C MINI GLIDER

EXECUTION STANDARD : GB/T26701-2011
AGE APPLIES : 14 years and older
WARNING : Parents: In order to make your child entertaining while keeping safe, please contact you.The child reads this manual together first. (Unauthorized changes and modifications.)This product will damage your interest in this product.

WARNING :
- This toy contains batteries that non-replaceable.
- Non-rechargeable batteries are not rechargeable.
- Rechargeable batteries can only be charged under adult supervision.
- The rechargeable battery should be removed from the toy before charging.
- Different types of batteries or old and new batteries cannot be mixed.
- The transformer should be checked for damage before charging.If there is damage, all damage should be repairedreuse.
- Only batteries that are the same or equivalent to the recommended model can be used.
- Load the battery according to the correct battery polarity.
- The exhausted battery should be removed from the toy.
- The power supply must not be shorted.

BATTERY WARNING INSTRUCTIONS :
- Do not put the battery in a fire or other heat source.
- Do not use the battery near the heat source or next to the heat source.
- Do not place the battery on the surface of a hot object.
- Do not immerse the battery in water, keep it in a dry, low-temperature enviment.
- Do not overcharge.
- Do not connect the battery to another line
- Do not secure the battery with screws and sharp objects.
- Do not put batteries and metal parts or jewelry together.
- Do not break down the battery.
- Turn off the appliance power switch in time after use.
- Use the battery please wrap in PE plastic bag or use insulation to isolate the battery.

NOTE : Try positive and negative poles before recycling.
- It is recommended to install or replace the battery under parental guidance.
- Avoid replacing the battery when the product's functionality is reduced.
- It is recommended to use a new alkaline battery to get the best out of your product.
- Keep the instructions for future reference.
- Use this product in strict accordance with the instructions.

NOTES ON USE

1. Please read the instructions carefully before your first flight and be familiar with the use of the various function keys of the remote control.
2. Glider belongs to high-speed sports objects, please carefully choose the flight site to avoid winding and other injuries, when the glider abnormal, please immediately repair.
3. It is recommended to fly in an outdoor windless environment, and indoors it is recommended to fly in an open space (recommended gymnasium).
4. Flying is not to exceed the remote control distance (20 meters), to avoid leaving sight and loss of signal caused by loss of time.
5. It is recommended for persons over 14 years of age and for persons under 14 years of age to be used under adult supervision.
6.Statement that the transformer, power supply or battery charger used with the electric toy shall be regularly examined for damage to the supply cord, plug,enclosure or other parts, and in the event of damage, it shall not be used until the damage has been repaired.

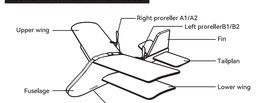
FLIGHT WARNING

*Before the plane hits an object, it is necessary to release the throttle and stop the motor to avoid damaging the motor and propeller.
The blades are high-speed rotating components, before the glider takes off, make sure that the propeller blades are fully deployed and close to close the rotating blades to the hands, eyes, hair, etc., to avoid the risk of cuts, strands, winding or glider status imbalance damage. In order to ensure the electromagnetic environment of the aviation radio station (station), the use of various model remote controls in an area with a radius of 5000 meters at the center of the airport runway is prohibited. The model remote control shall be discontinued as required during the issuance of the radio control order by the relevant state departments and in the area.
The model can only use the recommended transformer. Check the transformer's wires, plugs, housings and other components regularly for damage and discontinue use until repair is complete. Laser radiation, do not look directly at the beam.

1.PACKAGE CONTENTS

The physical shape of glider products may not be consistent withthe picture, several gliders share a manual. (propeller cover, for novices, to be installed on their own)

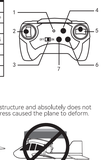
2.STANDARD CONTENT OF THE PRODUCT



*If the propeller needs to be replaced, the side with the word mustface inward (motor direction)

REMOTE CONTROL RECOGNITION

NUMBER	NAME	INSTRUCTIONS
1	Power indicator	REMOTE CONTROL STATUS
2	Throttle	REMOTE CONTROL TO SPEED UP
3	Power switch	REMOTE CONTROL ON
4	High/low speed button	HIGH AND LOW SPEED OPENING
5	Rudder	REMOTE CONTROL DIRECTION
6	Right trim button	YAW ADJUSTMENT
7	Left trim button	YAW ADJUSTMENT

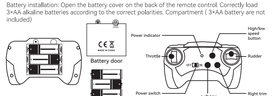


GLIDER PROFILE WARNING

The shape of the glider is the most important aerodynamic structure and absolutely does not allow deformation. The plane cannot be tilted or inverted stress caused the plane to deform.

REMOTE BATTERY INSTALLATION

Battery installation: Open the battery cover on the back of the remote control. Correctly load 3×AA alkaline batteries according to the correct polarities. Compartment (3×AA battery are not included)



CHARGING THE BATTERY OF THE GLIDER

First turn off the power of the glider, plug the USB charging head into the charging dock of the airplane, and plug the other end into the computer port. At this time, the indicator light inside
the airplane will light up, so that it can be charged. When the indicator light goes out, it means the glider is fully charged.
The charging time is about 25~30 minutes, and the flight time is about 9~11 minutes.

Frequency matching between remote control and glider:
1. First, open the switch at the bottom of the glider, do not shake the glider, so as to detect the glider gyroscope, and the glider light flashes quickly.
2. Then turn on the switch of the remote control, and the indicator blinks.
3. After successful coding the glider lights flicker and slow down), push the throttle lever of the remote control up once and then let go to complete frequency.
4. Push the throttle lever of the remote control again and the propeller will start to rotate and the game can start.

Note: After frequency alignment, you must push the throttle lever to the top once before starting the aircraft. After the remote control completes the frequency adjustment with one aircraft, it is necessary to restart the frequency adjustment process to operate another aircraft.

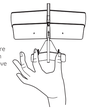
Remote control battery:
Power type: DC ⎓
Rated power:DC 4.5V 2W
Battery requirement:
3*AA alkaline(not included)

Lithium batteries built into gliders:
Power type: DC ⎓
Rated power:DC 3.7V 5W
Battery requirement:1*3.7V Li-Po (included)
Battery capacity:130mAh

Adapter requirements:
AC 100~240V 50/60Hz
DC 5.0V ⎓ 1.0A
(not included)

INSTALLING LANDING GEAR

1. Hold the two wheels of the landing gear by hand as shown in the figure.
2. Insert it into the hole under the fuselage as shown in the figure
3. Release your fingers to complete the landing gear installation
4. The way to remove the landing gear is the reverse of the above procedure.



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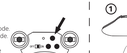
PREPARATION BEFORE TAKING OFF

1. Please choose indoor or outdoor environment with no rain or snow and wind less than grade 2. Avoid people, animals and obstacles.
2. Load the battery into the bottom of the glider and turn on the power switch. The glider indicator lights up and wait for frequency alignment.
3. Pull the throttle lever to the lowest, turn on the power supply of the remote control, push the throttle lever to the highest and then pull it back to the lowest, and the glider indicator light will be steady on. At this time, the frequency adjustment is completed and the glider can fly normally.

With the back part of the fuselage in your hand, push the throttle lever of the remote control and push the glider 30 degrees upwind without tilting.

HIGH / LOW SPEED SWITCH

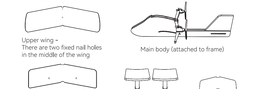
Use the high/lower speed button to change the speed of flight
•The remote control indicator does not flash, which means slow mode.
•The remote control indicator flashes, which means high speed mode.
Note: It is recommended for beginners to only use the low speed mode until they become more competent with the controls and the handling of the glider.
As shown in the upper right picture, press the high speed mode key to switch between low speed mode and high speed mode. When the remote control is turned off and switched on again, it will automatically return to low speed mode.



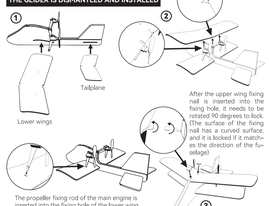
INSTALLATION OF PROTECTIVE COVER

1. Disassemble the upper wing (see disassembly and installation for disassembly steps)
2. The protective cover is buckled on the frame and damped on the motor.
3. The clip is stuck on the upper wing to complete the installation.

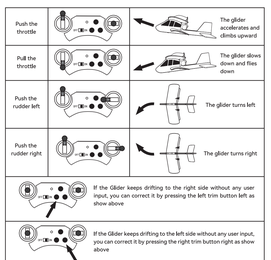
GLIDER DISASSEMBLY ACCESSORIES



THE GLIDER IS DISMANTLED AND INSTALLED



INSTRUCTIONS FOR FLIGHT



TROUBLESHOOTING

Problem	Cause	Solution
The glider has no response	The glider has entered low-voltage protection mode	Charge the glider
Remote control is unresponsive	The remote control does not have frequency matching. The power indicator light is flickering	Change the batteries in the remote control.
	Re-frequency alignment was unsuccessful	Re-frequency alignment
The glider's response isn't sensitive enough	Another remote with the same frequency is causing interference	Change the flight location to where there is less interference
	The remote control does not have sufficient power	Change the batteries in the remote control
The glider flies to the left	The glider deformation	Press the right trim button to adjust
	The motor speed difference	Adjust the vertical tail to the middle position, and adjust the deformed wing slightly by hand
The glider flies to the right	The glider deformation	Press the left trim button to adjust
	The motor speed difference	Adjust the vertical tail to the middle position, and adjust the deformed wing slightly by hand
Propeller/motor cannot turn	Propeller caught in debris	Check the propeller
Flying altitude drops sharply when turning	Accelerator too fast	Reduce the amplitude or use t he touch to turn

*Tips for beginners flying skills:
1.Beginners are recommended to install a motor cover (optional)
2.Beginners should pay attention to that when the battery is fully charged, push the throttle to about halfway and keep it at a height of about 3 meters to avoid flying.
3.The throttle needs to be maintained. Don't loosen it at full speed. The throttle is basically fixed. Only fine-tune within a certain range, maintain the corresponding height, and then practice left and right.

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 a gainst 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.
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.

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