

WIRELESS RC HELICOPTER INSTRUCTION MANUAL

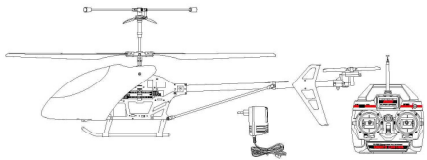
Caution: The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

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.

Contents



Main Features

Helicopter The Big One:

- Sturdy aerodynamic aluminum fuselage
- Replaceable, rechargeable 1.2V(LiPo(lithium-polymer) battery
- New coaxial rotor system with electronic gyro for excellent flying
- Easy battery recharging with the supplied charger

Controller:

- 3-channel MHz controller
- Trim function for fine tuning
- LED indicator

Safety Precautions:

- This product is designed to be used indoors only Do not use it outdoors unless there is absolutely no wind and no gusts.
- This helicopter is suitable for ages 15 and above. Parental supervision is necessary while flying.
- Keep hands, face, hair and loose clothing away from the rotor blades.
- Turn off the controller and helicopter when not in use.
- Remove batteries from the controller when not in use.
- Always keep the helicopter in sight to avoid loss of control.
- We recommend using new alkaline-manganese batteries or enloop rechargeable batteries for the controller.
- Insert new batteries in the controller as soon as any function becomes unresponsive.
- Keep these instructions for future reference.
- Always follow these instructions when operating the helicopter.
- Do not fly the helicopter near people, animals, water or power cable.
- The LiPo battery charger is made specifically for charging the helicopter battery. Only use it for this purpose Do not use it to charge other batteries.
- This appliance is not intended for use by persons(including children) with reduced physical/ sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- The helicopter should not be used in temperatures above +40 °C(104 °F) or below 10 °C(50 °F).

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Care and Maintenance:

- Use a clean, damp cloth to wipe the helicopter.
- Keep the helicopter and batteries away from direct sunlight and/or direct heat sources.
- Never let the helicopter come into contact with water, as this may damage the electronics.

Controller Battery Safety Advice:

- Do not charge non-rechargeable batteries.
- Rechargeable batteries must be removed from the controller before charging.
- Rechargeable batteries must only be charged under adult supervision.
- Do not use different types of batteries or mix old and new batteries.
- Only use the recommended batteries or batteries of an equivalent type.
- To help the environment, consider replacing the disposable batteries for this controller and for other household electronic items with rechargeable batteries. We recommend enloop rechargeable batteries from Sanyo.
- Insert batteries following the correct polarity(+/-) with -.
- Remove dead batteries from the controller.
- DO NOT RECHARGE THE SUPPLY REMEDIATE. RECHARGE BATTERIES FROM LINE controller when it is not used for a long period of time.

Battery Requirements for the Helicopter:

Power Supply: 
Rating: DC 7.4V/1500mAh
Batteries: One 7.4V rechargeable LiPo battery (included)

Battery Requirements for the Controller:

Power Supply: 
DC 8V
Batteries: 6x1.5V/AA* (not included)

The helicopter comes with a rechargeable lithium-polymer battery. Always follow these safety instructions:

- Never dispose of LiPo batteries in a fire or store near sources of heat.
- Only use the supplied RevoLi Po charger to recharge this LiPo battery. Using a different charger may result in permanent damage to the battery and adjacent parts and may also cause injury!
- Never use a charger designed for NiCd/NiMH batteries!
- Always charge the battery on a fireproof surface and in a fire-resistant environment.
- Never leave the battery unattended during the charging and discharging processes.
- Always make sure that the battery is fully charged, but do not charge it for longer than 180 minutes.
- Batteries must be discharged or fully exhausted before being disposed of. Cover exposed poles with adhesive tape to prevent short-circuiting!
- Keep the battery out of the reach of children.

Safety Precautions:

- Never carry out any modifications or alterations to the product as this may result in damage or injury.
- To avoid risk of injury, never operate the helicopter while sitting on the floor or on a chair. Always ensure you are able to move quickly out of the helicopter's flight path.
- Always turn the helicopter and controller off completely after use and disconnect the helicopter's flight cable.



WEEE: At the end of this device useful life, please remove the batteries and dispose of them separately. The electronic components at the base collection points for waste electrical and electronic equipment. Other components can be disposed of in domestic refuse. Thank you for your cooperation!



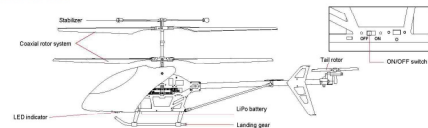
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product complies with the basic requirements and other relevant provisions of Directive 1999/5/EC, i.e. electromagnetic compatibility is ensured at CE

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Helicopter and Controller



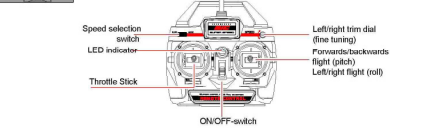
CONTROLLER



ACCESSORIES:



Insert batteries



1. To open the battery cover, slide it downwards.

2. Insert eight 1.5V AA batteries into the battery compartment.

3. Insert eight 1.5V AAA batteries into the battery compartment.

4. Recharge the battery holder in the compartment and slide the battery compartment cover back up and down.

5. The LED indicator works continuously and lights the battery charge in ON.

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Charging the helicopter battery

Note: Before recharging and after every flight, always 15-30 minutes for the battery to cool down in order to avoid damage. Never leave the helicopter unattended when recharging.

Always charge the battery on a fireproof surface and in a fire-resistant environment.

1. Turn on the helicopter and the controller (pic 1).
2. Carefully separate the connectors on the flight cable on the helicopter (Pic 2).
3. Connect the 20 V mains adapter to the LiPo charger. Insert the mains adapter into a plug socket. The RED LED on the charger lights up.
4. Insert the white plug on the LiPo battery carefully into the LiPo charger. Do not touch (Pic 3).
5. The battery takes about 180 minutes to charge. Never leave charging batteries unattended. As soon as the battery is completely charged, the green LED indicator on the charger will start to blink.

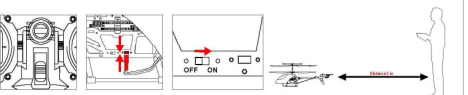
The helicopter can fly for about 10 minutes after approximately 180 minutes of charging. The battery should not need longer than 180 minutes to charge. If the LED indicator does not illuminate after this time, stop the charging process. See if the helicopter works and, if necessary, conform to the recharging instructions. If the helicopter is not recharging, please repeat the charging process described above.

Warning: The LiPo battery warms up during the charging process. If it becomes extremely or exhibits changes to the outer surface, stop charging immediately.

Flying the Helicopter

1.GETTING STARTED:

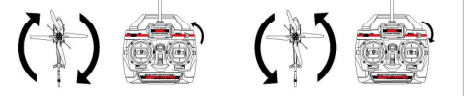
Before you start make sure that the throttle stick (on the left of the controller) is in the down position to prevent the helicopter from taking off unexpectedly. Move the controller's ON/OFF switch to "ON". Carefully connect the two parts of the flight cable on the helicopter. Turn the helicopter's ON/OFF switch to "ON". Place the helicopter on the floor at a distance of 1-2 metres with the tail pointing towards you. The controller needs about 5 seconds to synchronise with the helicopter. To start helicopter, slowly move the throttle stick upwards and hold the turn due to the forward position.



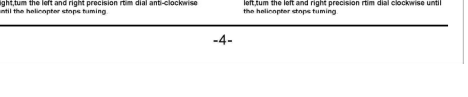
2.TRIMMING THE CONTROLLER:

Taking into account the instructions to ensure that the helicopter flies smoothly it is easy to do but does require a little patience and a light touch, please follow these instructions carefully. Slowly move the throttle stick up to raise the helicopter to a height of about 0.5 metres to 1 metre.

If the helicopter spirals right or keeps turning slowly to the right...



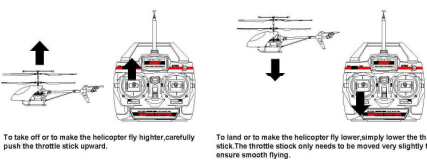
If the helicopter spirals left or keeps turning slowly to the left...



If the helicopter spirals right or keeps turning slowly to the right, turn the left and right precision rim dial anti-clockwise until the helicopter stops turning.

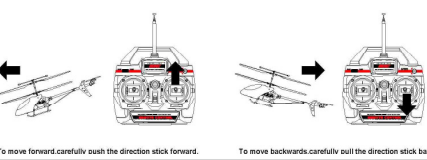
If the helicopter spirals left or keeps turning slowly to the left, turn the left and right precision rim dial clockwise until the helicopter stops turning.

3.FLIGHT CONTROL:



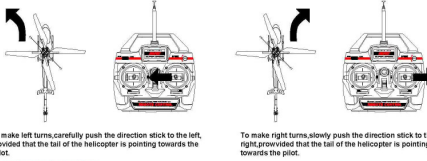
To take off or to make the helicopter fly higher, carefully push the throttle stick upward.

To land or to make the helicopter fly lower, simply lower the throttle stick. The throttle stick only needs to be moved very slightly to return smooth flying.



To move forward, carefully push the direction stick forward.

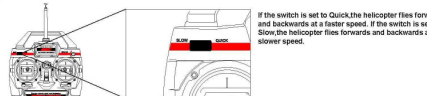
To move backwards, carefully pull the direction stick back.



To make left turns, carefully push the direction stick to the left, provided that the tail of the helicopter is pointing towards the pilot.

To make right turns, slowly push the direction stick to the right, provided that the tail of the helicopter is pointing towards the pilot.

Speed selector switch:



If the switch is set to Quick, the helicopter flies forwards and backwards at a faster speed. If the switch is set to Slow, the helicopter flies forwards and backwards at a slower speed.

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Safety Tips

4. GENERAL FLYING TIPS:

Always place the helicopter on a flat surface. An uneven surface may affect the helicopter's take-off.

Always move the controller slowly and gently.

As soon as the helicopter leaves the ground, lower the throttle stick slightly. Adjust the throttle as necessary to maintain altitude.

Gently push the throttle stick up if the helicopter loses height.

Gently push the throttle stick down if the helicopter gains height.

To turn the helicopter, the direction stick usually only needs to be moved very slightly in the corresponding direction. Most first-time users initially tend to over-rotate. Always handle the direction stick slowly and gently and avoid fast and jerky movements.

After adjusting the trimming settings, beginners should practice using the throttle stick correctly. There is no need to keep the helicopter flying straight at the start. It is more important that you learn how to maintain a constant altitude of about 1 metre above the ground by slightly moving the throttle stick. Once you are able to do this, move on to practising left and right turns.

5. SUITABLE FLIGHT LOCATIONS:

Choose a location that meets the following criteria:

1. The helicopter can be flown outdoors, but only in perfectly calm conditions. When flying in enclosed areas, make sure that there is no air movement. Where possible, avoid circulating air from heating air conditioning etc.
2. The room should be at least 6 metres long, 6 metres wide and 3 metres high.
3. Never fly the helicopter in a room containing obstacles.
4. Before take-off, ensure that all animals and people, including the pilot, are at least 1-2 metres away from the helicopter.
5. Always switch the helicopter to prevent it from flying into and injuring the pilot, other people or animals.

IMPORTANT!

Since 2005, model airplanes and helicopters that can fly higher than 30 metres must be insured. Contact your private liability insurer to find out if your new and old models are covered. Ask your insurer for written confirmation and keep this in a safe place.

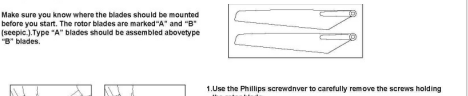
Operating Tips

- Immediately after a "crash landing", move the controller's throttle stick fully to the down position to avoid damaging the electronics and rotor blades.
- Two helicopters using the same MHz frequency cannot be used at the same time.
- Always turn the helicopter and controller off completely after use and disconnect the helicopter's flight cable to avoid any unintended operation.

Changing Rotor Blades

If the helicopter's rotor blades are damaged and need to be replaced, switch the controller to OFF and remove the connector from the helicopter battery. Proceed as follows:

Make sure you know where the blades should be mounted before you start. The rotor blades are marked "A" and "B" (respectively "A" "B" blades should be assembled above/below "B" blades).

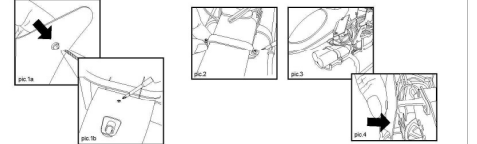


1. Use the Phillips screwdriver to carefully remove the screws holding the rotor blades.
2. Carefully remove the rotor blades from the fuselage.
3. Carefully insert the new rotor blades in the fuselage and replace the screws. Note: Do not screw in too tightly. There should be a certain amount of tolerance for the rotor blades.

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Changing the LiPo battery

1. Remove the cabin from the helicopter as shown (pic 1a).
2. Use Phillips screwdriver to open the retaining clips and then remove the battery (pic 2).
3. To retain the helicopter's weight distribution and flight characteristics, take care to place the new LiPo battery in exactly the same position as the old battery (pic 3). By the way, you can find suitable LiPo batteries at WWV.
4. If necessary, ensure secure placement of the battery with double-sided tape. Then screw the retaining clips back into place. Replace the cabin on the fuselage (pic 4).
5. Note the battery disposal information on page 6.



Troubleshooting

Problem:	Causes:	Solutions:
The rotor blades are not turning.	• The ON/OFF switch is "OFF". • The battery is too weak or dead.	• Turn the ON/OFF switch to "ON". • Recharge the battery (see "Charging the Helicopter Battery" section).
Problem: The helicopter is not working.	• Causes: • The ON/OFF switch is "OFF". • The batteries were not inserted correctly. • The batteries are too weak.	• Solutions: • Set ON/OFF switch to "ON". • Check that the batteries are inserted correctly. • Insert new batteries.
Problem: The helicopter does not respond to the controller.	• Causes: • The controller's ON/OFF switch is "OFF". • The helicopter's ON/OFF switch is "OFF". • The controller's antenna is incorrectly inserted and/or not fully extended.	• Solutions: • Turn the controller's ON/OFF switch to "ON". • Turn the helicopter's ON/OFF switch to "ON". • Check antenna and extend it fully. • Repeat the procedure until rotor starts to turn.
Problem: The helicopter is not taking off.	• Causes: • The rotor blades are turning too slowly. • There is not enough battery power.	• Solutions: • Push the throttle stick up. • Recharge the battery (see "Charging the Helicopter Battery" section).
Problem: The helicopter suddenly stops flying and drops.	• Causes: • The battery is too weak.	• Solutions: • Recharge the battery (see "Charging the Helicopter Battery" section).
Problem: The helicopter lands too fast.	• Causes: • Loss of throttle control. • Throttle is pulled down too fast.	• Solutions: • Slowly move the throttle stick to the down position.

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