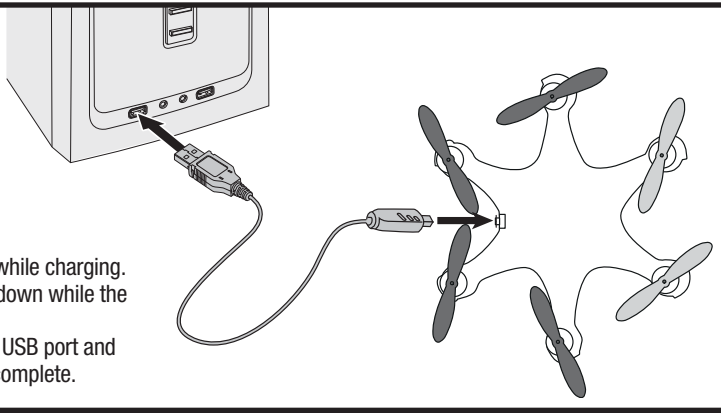
NANO HEXAGON

Revell Control

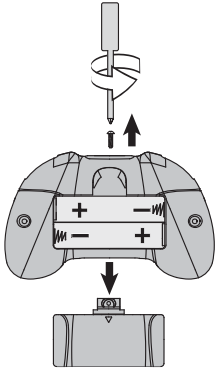
CHARGING

1. Plug charger into computer or USB charge adapter. The LED on the charger will turn on.
2. Make sure that the On/Off switch on the Nano Hexagon is off and connect charger. The LED on the charger will turn off while the battery is charging.
3. Typical charge time is 40 minutes. LED will turn on when the battery is charged.

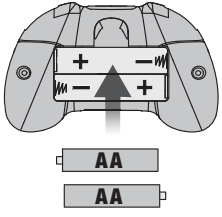


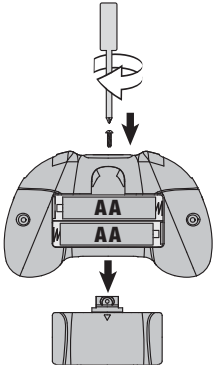
- **NEVER** leave the battery unattended while charging.
- **DO NOT** allow the USB port to power down while the charger is connected to the battery.
- **ALWAYS** unplug the charger from the USB port and the Nano Hexagon when charging is complete.

INSTALL THE BATTERIES INTO THE CONTROLLER

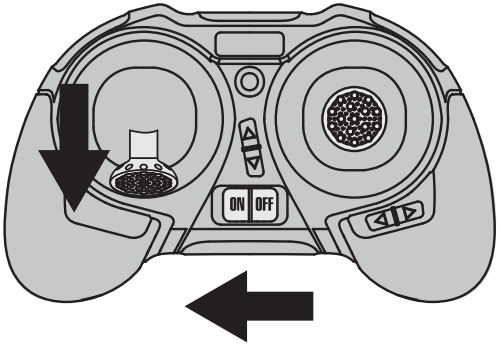


Remove the battery cover screw and the battery cover.
Install 2 AA batteries and replace the cover.

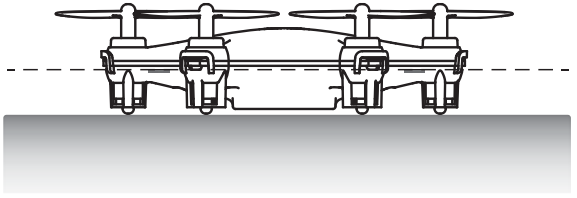




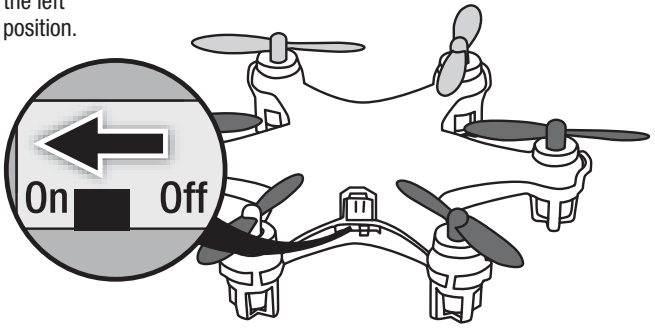
MOTOR ARMING



1. Turn on . Make sure the left stick is at its lowest position.



2. Place the Nano Hexagon on a level surface.

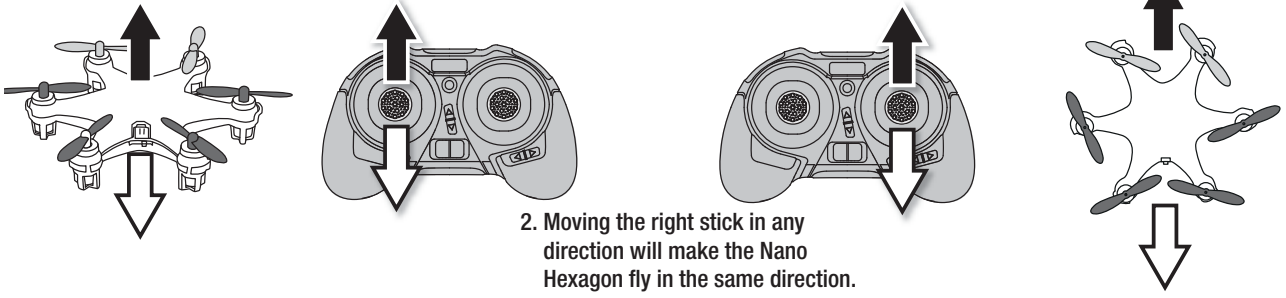


3. Turn on the Nano Hexagon and wait for the controller to beep twice.
4. Advance the left stick to its highest position and wait for the controller to beep once.
5. Return the left stick to its lowest position and wait for the controller to beep one more time.

The motors are now armed and your Nano Hexagon is ready to fly.

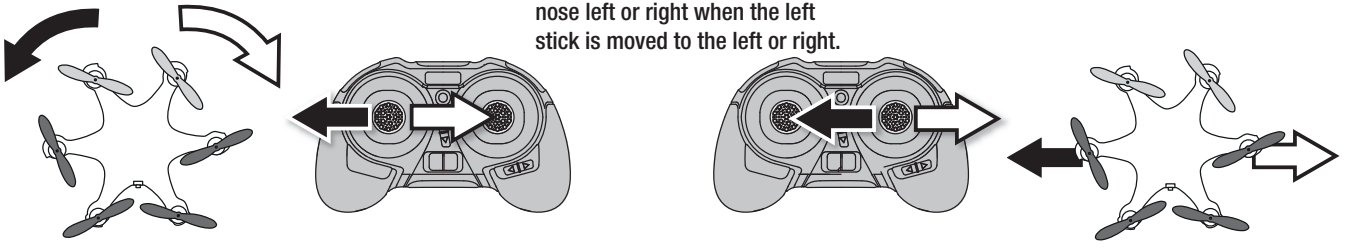
BASIC FLYING

1. To take off, ***SLOWLY*** advance the left stick until your Nano Hexagon lifts off.



2. Moving the right stick in any direction will make the Nano Hexagon fly in the same direction.

3. The Nano Hexagon will rotate its nose left or right when the left stick is moved to the left or right.



Please keep in mind that when the front of the model is pointed **toward** you, moving the sticks on the controller will appear to move the Nano Hexagon in the opposite direction. To avoid confusion, try to imagine that you are in the middle of your Nano Hexagon when flying.

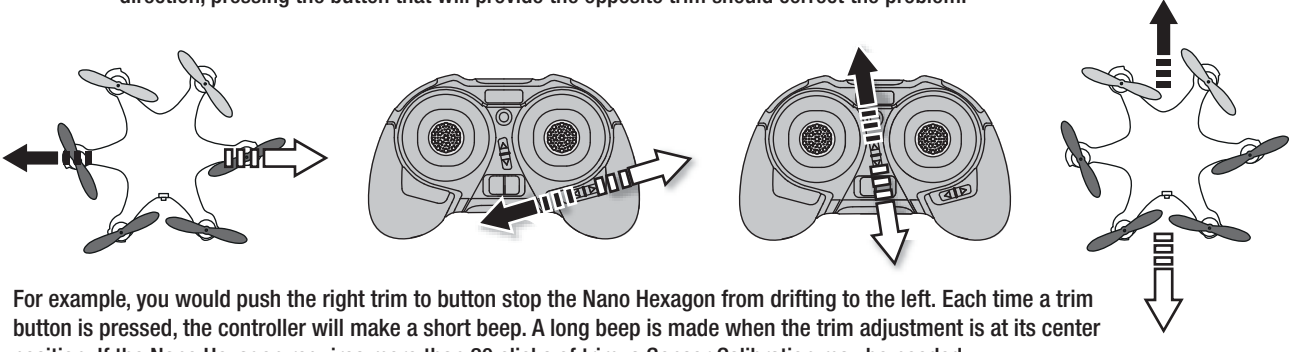
FLIGHT MODES

The sensitivity of the controls can be changed by pressing down on the left stick.

1 Beep: Beginner Mode - least sensitive setting (default setting)
2 Beeps: Normal Mode – moderate sensitivity
3 Beeps: Expert Mode – highest sensitivity

TRIMMING

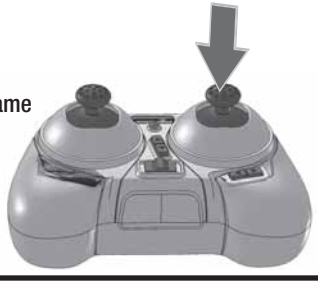
When your Nano Hexagon is hovering, a little drifting is normal. If it is always drifting in the same direction, pressing the button that will provide the opposite trim should correct the problem.



For example, you would push the right trim to button stop the Nano Hexagon from drifting to the left. Each time a trim button is pressed, the controller will make a short beep. A long beep is made when the trim adjustment is at its center position. If the Nano Hexagon requires more than 20 clicks of trim, a Sensor Calibration may be needed.

FLIP MODE

The Nano Hexagon has a built in flip function. When the right stick is pressed down, the TX will make a short beep to indicate it is in the flip mode. When the right stick is moved, the Nano Hexagon will flip in the same direction.



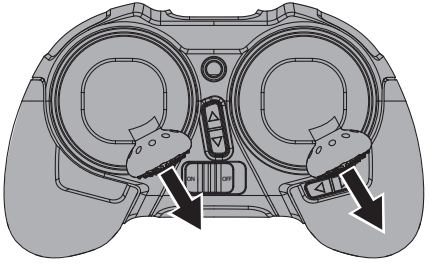
LOW BATTERY INDICATOR

After the Nano Hexagon has been flying for about 6 minutes, the LEDs on the arms will flash. This is a warning to land and charge the battery as soon as possible. Always charge the battery when the flight is completed. When the LEDs are flashing, the Nano Hexagon will not have enough power to perform a flip. ***Remember to ALWAYS turn off the Nano Hexagon after flight!***

SENSOR CALIBRATION

If your Nano Hexagon will not hover in the same spot when the right stick is centered, the sensors may need calibration.

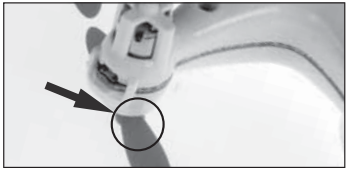
1. Place the Nano Hexagon on a level surface.
2. Center the trim adjustments. The controller will make a long beep when the trim is at the center position.
3. Change the control sensitivity to the Expert Setting (page 5). Move both sticks to their lowest position and to right as far as possible. The LEDs on the hex will flash for a few seconds while the sensors are being calibrated.

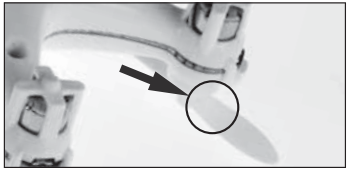


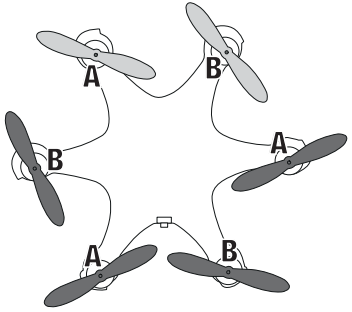
BLADE REPLACEMENT

Your Nano Hexagon has 3 “A” rotor blades which spin clockwise and 3 “B” rotor blades which spin counterclockwise (when viewed from above). The arms have a letter to identify proper rotor blade. The letter is also on the bottom of each rotor blade. If the rotor blade and arm letters do not match, the Nano Hexagon will not be able to fly.

When the props are installed correctly, the blades on the “A” arms should have a clockwise pitch. The “B” arms will have counterclockwise pitch.







IMPORTANT! If the props are installed incorrectly, the Nano Hexagon will not fly.

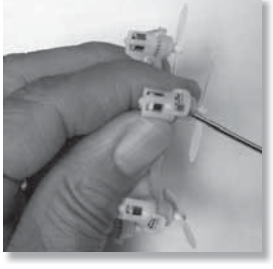
BATTERY REPLACEMENT

If the battery will not hold a charge or the flight time is much less than normal, a replacement battery may be needed. A soldering iron will be needed to remove and install the battery.

1. Remove the 6 screws on the bottom of the Nano Hexagon.

2. Carefully separate two halves of the body and remove the lower half.
3. Carefully solder in the new battery. **Note:** The red wire is soldered next to the B+ marking on the frame.

   WARNING: Cover any bare battery wires with tape when they are loose to prevent arcing and possible damage to the battery.



MOTOR REPLACEMENT

A damaged motor is not hard to replace, but a soldering iron will be needed to remove and replace the motor wires from the frame.

1. Remove the screws and remove the lower half of the body as described in the previous section.
2. Remove the prop from the damaged motor.

Select a replacement motor with the same color wires and note where they are soldered to the frame before removing the damaged motor.

TROUBLESHOOTING

PROBLEM: Nano Hexagon will not respond to signals from the controller.
SOLUTION: (1) Recharge the flight battery. (2) Turn off the Nano Hexagon and the controller. Wait 15 seconds and re-link them.

PROBLEM: LED on the controller is flashing and the controller is working correctly.
SOLUTION: Replace the AA batteries in the controller.

PROBLEM: The Nano Hexagon will not flip.
SOLUTION: Recharge the flight battery.

PROBLEM: The Nano Hexagon shakes while flying.
SOLUTION: Check for damaged motors or rotor blades.

PROBLEM: The rotor blades are spinning, but the Nano Hexagon will not take off.
SOLUTION: (1) If any of the rotor blades were just replaced, verify that they were correctly installed. (2) Recharge the flight battery.

PROBLEM: The Nano Hexagon is drifting or will not remain in a stable hover.
SOLUTION: (1) Check for damaged rotor blades. (2) Check the motors for hair or lint below the rotor blades. (3) Make sure that the Nano Hexagon is level when linked to the controller. (4) Use the trim buttons to correct the drift (see the Trimming section). (5) Calibrate the sensors on the Nano Hexagon (see the Sensor Calibration section).

BATTERY PRECAUTIONS

The Nano Hexagon uses a lithium polymer (LiPo) battery. Follow these precautions to insure safe and trouble-free operation.

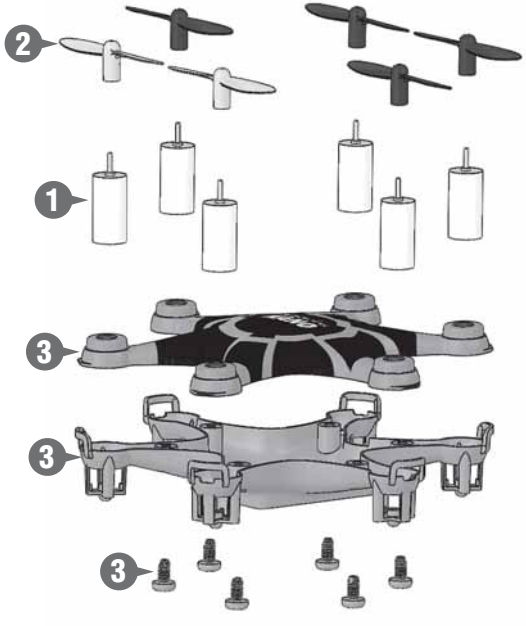
- ALWAYS disconnect the battery from the hexacopter when not in use.
- Only use the included charger with the flight battery.
- Do not attempt to use this charger with NiCd or NiMH battery packs.
- Do not attempt to use a damaged battery.
- This product contains a LiPo battery. Must be recycled or disposed of properly.
- Do not leave the charger unattended while charging. Disconnect the battery and unplug the charger immediately if either becomes hot! However, it is normal for the charger to get warm.
- Disconnect the battery from the charger and carefully move the battery to a fireproof location if the battery begins to swell or smoke!
- Never allow the battery temperature to exceed 140° F [60° C].
- Do not attempt to charge a battery if it is swollen or hot.
- Do not place the charger or any battery on a flammable surface or near combustible materials while in use.
- Never disassemble or modify pack wiring in any way or puncture cells.
- Never charge inside a vehicle.
- Always disconnect the battery and remove the charger from the USB port when not in use.
- Land your model immediately when the LEDs flash to indicate that the battery power is low. Recharge the battery before attempting another flight. A dangerous situation can occur when attempting to recharge an over-discharged battery!
- ALWAYS keep a supply of sand accessible when charging. Dumping sand on the battery will extinguish a LiPo chemical fire.
- ALWAYS KEEP OUT OF REACH OF CHILDREN

SAFETY PRECAUTIONS

Follow these safety precautions when operating this or any model hexacopter.

- Adult supervision required.
- Before flying, go to www.knowbeforeyoufly.org.
- Do not touch the spinning blades or fly over another person's head.
- Keep your face and body as well as all spectators away from the rotors whenever the battery is connected.
- Stay clear of buildings, trees and power lines. **AVOID** flying in or near crowded areas. **DO NOT** fly close to people, children or pets.
- Maintain a safe pilot-to-hexacopter distance while flying.
- Your Nano Hexagon should not be considered a toy, but rather a small, working model. If not operated correctly, the model could possibly cause injury to you or spectators and damage to property.
- You must check the operation of the model before every flight to insure that the model has remained structurally sound.
- Do not alter or modify the model, as doing so may result in an unsafe or unflyable model.

REPLACEMENT PARTS



1 RVLE1620 Motor Set (6)
2 RVLE1621 Rotor Blade Set (6)
3 RVLE1622 Body Set w/screws ***BLACK***
3 RVLE1623 Body Set w/screws ***ORANGE***
4 RVLE1626 LiPo Battery 1S 3.7V 150mA
5 RVLE1627 USB Charge Cord

90-DAY LIMITED WARRANTY

PLEASE DO NOT RETURN YOUR PRODUCT TO THE STORE. Revell will repair or replace factory defects for 90 days from the date of purchase. This warranty specifically does not cover crash damage, misuse or abuse. To make a warranty claim, please contact our product support team at **1-217-398-8970 option 6** or e-mail us at **helihotline@greatplanes.com**.

If requested by Product Support, please send defective product to: ***Hobby Services, 3002 N Apollo Dr., Suite #1, Champaign, IL 61822***

Please include a note about the problem, your contact information, and a copy of the receipt.

This warranty applies only if the product is operated in compliance with the instructions and warnings provided with each model. Revell assumes no liability except for the exclusive remedy or repair of parts as specified above. Revell shall not be liable for consequential or incidental damages. Some states do not allow the exclusion of consequential or incidental damages so the above exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

FCC STATEMENT AND INDUSTRY CANADA NOTICE

1. This device complies with Part 15 of the FCC Rules and RSS-210 of Industry Canada. 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.

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

Remark: This device is in accordance with the digital device grade B limitation and the 15th regulation of FCC. This limitation requires reasonable anti-interference protection around the residence. The device can transmit radio wave during use and can interrupt the mobile communication without proper installment. Interruption will occur for special device. If the device do interrupt the radio or television, please turn the device off then turn it on to adjust. Below are some resolution for your reference:

- Move the receiving antenna
- Try to not connect the device and the receiver on the same circuit
- Enlarge the distance between the device and receiver
- Ask for professional help from experts

3. This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of Industry Canada.

CE COMPLIANCE INFORMATION FOR THE EUROPEAN UNION

INSTRUCTIONS FOR DISPOSAL OF WASTE EQUIPMENT BY PRIVATE USERS IN THE EUROPEAN UNION:

This symbol on the product or its packaging indicates this product must not be disposed of with other household waste. Instead, it is the user's responsibility to dispose of their waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or location where you purchased the product.

DECLARATION OF CONFORMITY:

Product: Revell Control 2.4GHz 4-Channel Tx Rx
Item number: 23947/8
Equipment class: 1

23947/8 transmitter: The objects of the declaration described here are in conformity with the requirements of the specifications listed below, following the provisions of the European 2006/95/EC Low Voltage Directive:

EN 60950-1:2006 Safety

The objects of the declaration described here are in conformity with the requirements of the specifications listed below, following the provisions of the European R&TTE directive 1995/5/EC:

EN300 328 V1.8.1.

Technical requirements for radio equipment

ETSI EN 301 489-1 V1.8.1, 301 489-17 V1.3.2 General EMC requirements for radio equipment

Hobbico, Inc.
2904 Research Road
Champaign, IL USA 61826

Distributed in Europe by Revell GmbH
D-32257 Bünde Germany

The associated regulatory agencies of the following countries recognize the noted certifications to this product as authorized for sale and use.

UK	DE	DK	BG	SE	FI	GR
EE	LV	LT	PL	CZ	SK	HU
RO	SI	AT	IT	ES	PT	IE
NL	LU	MT	CY			

RVLE09**