

LA TRAX™



ALIAS™

OWNER'S MANUAL

MANUEL DU PROPRIÉTAIRE

MANUAL DEL USUARIO

BEDIENUNGSANLEITUNG

MODEL 6608

SAFETY PRECAUTIONS

- Never fly the helicopter with low batteries. Low battery indicators include:
 - The transmitter or the receiver battery level indicator on the transmitter LCD starts flashing, and the transmitter starts beeping continuously.
 - The rear-facing blue LED on the helicopter is flashing fast (4 times per second).
 - The helicopter loses power and lands itself (low voltage cutoff).
- The helicopter has rotating blades that move at high speed, posing danger of damage and injury. Pilots are responsible for any actions that result in damage or injury from the improper operation of the helicopter. Choose an adequate flying space without obstacles. Do not operate the helicopter near buildings, crowds of people, high-voltage power lines, or trees to ensure the safety of yourself, others, and your model. Wear eye protection when operating your helicopter and keep your hands, face, hair, loose clothing, and foreign objects away from the rotating blades.
- This model has small parts that may pose a choking hazard. Keep all small parts and electrical devices out of the reach of children and animals.
- Pets can become excited by radio-controlled models. Keep pets away from your model at all times.
- Keep the model in sight at all times during operation and flight. Discontinue operation immediately if the model flies out of your field of view.
- Because your model is controlled by radio, it is subject to radio interference from many sources that are beyond your control. Radio interference can cause momentary losses of radio control; always allow a safety margin in all directions around the model to prevent collisions.
- When flying indoors, avoid locations with ceiling fans, hanging light fixtures, heating or air conditioning vents, or any other obstacles that may interfere with or damage your model.
- Never attempt to retrieve your model from any location higher than your reach (such as rooftops or trees) or from any location that poses a safety hazard.
- Do not operate your model anytime your line of sight to the model may be obstructed or impaired in any way. Do not operate the model if you are tired or otherwise impaired.
- Moisture causes damage to electronics. Avoid exposing your helicopter, transmitter, and battery to water.
- The motor, batteries, and speed control can become hot during use. Allow parts to cool before handling.
- Do not leave the model unattended while it is turned on. Immediately turn the model and the transmitter off after you have safely landed the model.
- Most importantly, use good common sense at all times.



All instructions and precautions outlined in this manual should be strictly followed to ensure safe operation of your model. Failure to comply with the warnings, instructions, and precautions in this manual could lead to product damage and personal injury.

LiPo Batteries

Lithium Polymer (LiPo) batteries are popular for use in R/C models due to their compact size, high energy density, and high current output. However, these types of batteries require special care and handling procedures for long life and safe operation. **WARNING:** LiPo batteries are intended only for advanced users that are educated on the risks associated with LiPo battery use. **LaTrax does not recommend that anyone under the age of 14 use or handle LiPo battery packs without the supervision of a knowledgeable and responsible adult.**

Your model is able to use LiPo batteries. LiPo batteries have a minimum safe discharge voltage threshold that should not be exceeded. The LaTrax Alias is equipped with built-in Low-Voltage Detection that alerts the pilot when LiPo batteries have reached their minimum voltage (discharge) threshold. **It is the pilot's responsibility to stop immediately to prevent the battery pack from being discharged below its safe minimum threshold.**

Low-Voltage Detection is just one part of a comprehensive plan for safe LiPo battery use. It is critical to follow all instructions for safe and proper charging, use, and storage of LiPo batteries. Make sure you understand how to use your LiPo batteries. Be aware that LaTrax shall not be liable for any special, indirect, incidental, or consequential damages arising out of the installation and/or use of LiPo batteries in LaTrax models. If you have questions about LiPo battery usage, please consult with your local hobby dealer or contact the battery manufacturer. As a reminder, all batteries should be recycled at the end of their useful life.

LaTrax Technical Support Line: 1-888-872-9927

(Toll-free support is available to U.S. residents only, 972-265-8000 outside the U.S.)

INTRODUCTION

Thank you for purchasing the LaTrax Alias quad rotor high-performance helicopter. This manual contains all the necessary operating procedures that allow you to unlock the performance and potential that our engineers designed into your model. Even if you are an experienced R/C enthusiast, it's important to read and follow the procedures in this manual.

We want you to feel confident that you own one of the best-performing models in the market and that it is backed by a team of professionals who aim to provide the highest level of factory support possible. Our Customer Support team is with you every step of the way. If you have any questions about your model or its operation, call the LaTrax Technical Support Line toll-free at: 1-888-872-9927 (Toll-free support is available to U.S. residents only).

QUICK START GUIDE

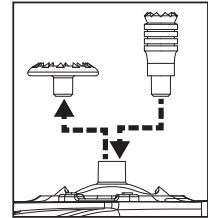
See the included Quick Start Guide for initial setup of your helicopter. The Quick Start Guide is not intended to replace the full operating instructions available in this manual. Please read this entire manual for complete instructions on the proper use and maintenance of your helicopter.

INCLUDED SUPPORT EQUIPMENT

- 650mAh LiPo battery
- USB-powered battery charger
- 1.5mm hex wrench (to assist with repairs)
- 4 Traxxas AAA alkaline batteries
- Spare rotor blade set
- Spare hardware
- Control sticks

Accessory Control Stick Installation

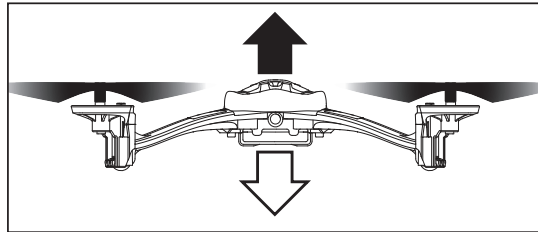
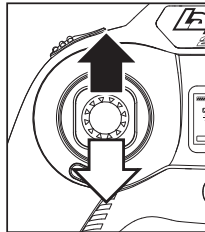
The included accessory control sticks are interchangeable with the thumb pads on your transmitter. Twist and pull on the thumb pad to remove it from the transmitter, and install the control stick in its place.



FLIGHT CONTROLS

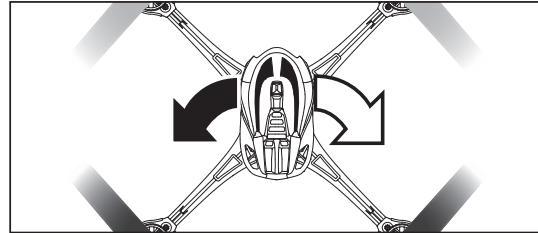
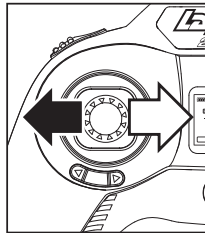
Throttle Control

- Increase throttle/altitude: Push throttle stick forward
- Decrease throttle/altitude: Pull throttle stick back



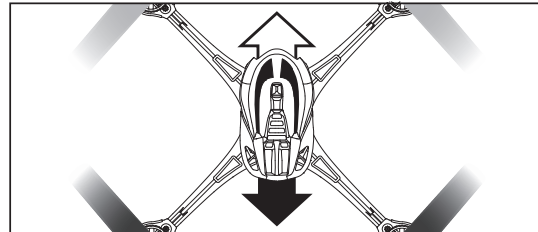
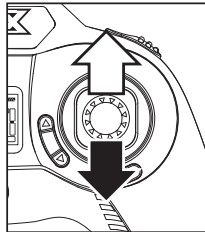
Rudder Control

- Rotate left: Move throttle stick left
- Rotate right: Move throttle stick right



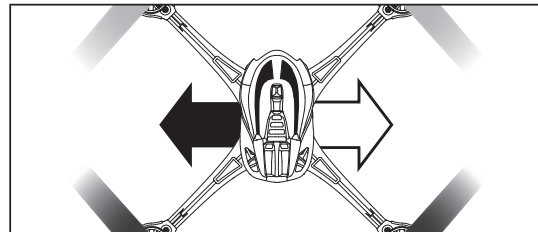
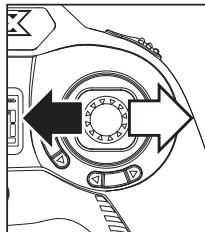
Elevator Control

- Fly forward: Push flight stick forward
- Fly backward: Pull flight stick back



Aileron Control

- Sideways left: Move flight stick left
- Sideways right: Move flight stick right



MODEL ORIENTATION**FLYING YOUR MODEL**

- The model will react quickly to your commands. At first, move the controls **SLOWLY** and make small, gentle control movements to avoid loss of control. If you ever feel you don't have complete control of the helicopter, maintain altitude with the throttle stick and release the opposite stick to return to level flight (Normal and Expert 1 (EXP1) Mode).
- Fly 2-3 feet above the ground to avoid ground turbulence for a more stable and controllable flight.

1. Find a suitable flying area. Alias is approved for both indoor and outdoor flight. The recommended minimum area for indoor flight is 10 x 10 feet, with a ceiling height of 8 feet or more. Be aware that the spinning rotor blades may damage furniture and wall coverings. When flying outdoors, choose a wide open area away from crowds, buildings, power lines, or other hazards.

2. Switch the transmitter on. The transmitter will emit a tone. Observe the battery level indicator on the LCD. Replace the batteries when only one segment is displayed. Do not fly the model with low transmitter batteries or loss of control may result.

**Alias does not have a power switch.**

The model is ON when the battery is connected. To power the model off, disconnect the battery.



WARNING: To prevent permanent damage to your battery pack, ALWAYS disconnect the battery whenever the helicopter is not in use.

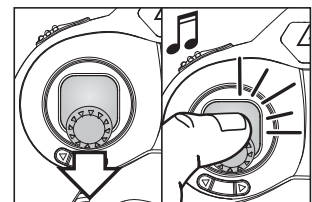
3. Power the model.

- Connect the battery to the model. The model is now powered on.
- When the green LED on the transmitter and the blue LED on the helicopter are both solid (not blinking), and the "RX" battery level indicator appears on the LCD screen, linking is complete.

4. Place the model on a level surface in the center of your flying area, with the front of the model facing away from you (nose out).

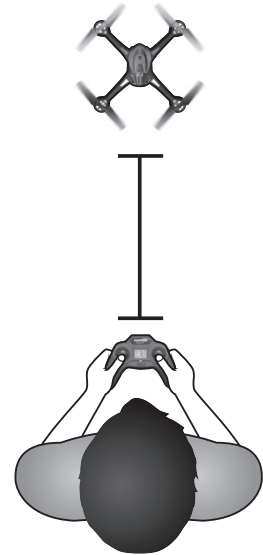
5. Arm your model for flight. Move the throttle stick to the full down position (throttle off). The helicopter will not arm unless the throttle stick is in the down position. Push in and click the throttle stick to arm your model for flight. The transmitter will emit a tone indicating that the helicopter is armed and ready to fly.

Note: When the throttle stick is left idle for 5 seconds or the helicopter detects an impact, the helicopter will automatically disarm.



6. Fly the helicopter. Gently push the throttle stick forward to increase the RPM of the main rotors until the model begins to lift off. Reduce throttle to maintain a hover when the model is at least 2–3 feet off the ground. This height will keep the model away from ground turbulence for more stable flight.

- Practice maintaining the hover position. Minor control inputs are required to keep the model hovering in one spot and at one altitude.
- Practice increasing and reducing altitude. To land, slowly and smoothly pull the throttle stick back until the helicopter touches down.
- Practice flying forward and backward. Operate the elevator and aileron controls separately to familiarize yourself with the helicopter's response.
- Practice rotating and stopping the helicopter precisely. Operate the rudder control while hovering.
- Combine control commands. When you are comfortable operating the controls independently, you can combine controls to make very precise maneuvers.



i The transmitter and receiver are equipped with an automatic fail-safe system. In the event of signal loss or interference, the flight control will be shut down and the helicopter will execute a controlled landing. If failsafe activates, determine the reason for signal loss and resolve the problem before operating the helicopter again.

i If one or more of the rotor blades are obstructed, the helicopter will disarm itself and all of the LED lights on the helicopter will flash. Move the helicopter to a clear area, arm the helicopter again, and continue flying. If the helicopter will not fly correctly or the LED lights start flashing again, unplug the battery and inspect the helicopter for damage.

FLYING TIPS

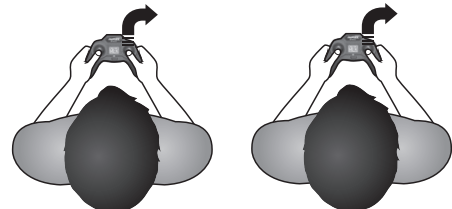
Controls are reversed as the model flies toward you.

- When your model is flying away from you, the helicopter reacts to direction changes just as you command. If you command the model to move right, it will move to your right as you commanded.

- When the helicopter is coming toward you and you command the model to move right, the model will move to your left. Always remember that the model flies forward, reverse, right, and left relative to the position of itself, not relative to your position.



- Until you become used to reversing your control inputs as the model changes direction, allow yourself extra flying room to accommodate pilot error.
- To help with directional control, it may help to imagine yourself sitting in the cockpit of the helicopter.



Indoor Flying Tips:

- The helicopter is sensitive to air currents in the room and turbulence that is created when the helicopter is near the ground, walls, and ceilings. Pilot correction will be required. Stay 2-3 feet away from ceilings and walls.
- Note that air vents, air conditioners, room fans, and other devices that circulate air may affect your model and cause unpredictable movements. Avoid obstacles such as ceiling fans and fire sprinkler heads.

Outdoor Flying Tips:

- Choose a location that allows you to fly over grass or another soft surface.
- Do not fly near power lines, trees, rooftops, or other obstacles. Do not retrieve the model from any location higher than your reach.
- If the helicopter flies too far away from you and you can't determine its orientation, move the throttle stick to the full down position to immediately land the helicopter.
- If you encounter wind gusts that disrupt the model, fly into the direction of the wind to maintain control.
- If a strong wind overpowers the model, land immediately to avoid loss of control.

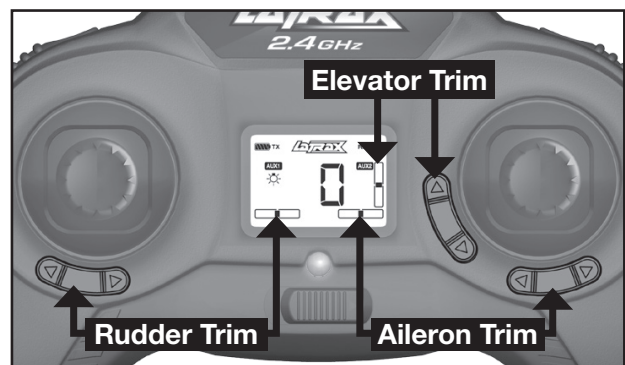


Be prepared for altitude changes as you fly. Forward/reverse and left/right movements may increase or reduce lift, causing the helicopter to gain or lose altitude. Be prepared to react to altitude changes by adjusting the throttle as you fly the model.

ADJUSTING THE CONTROLS FOR STABLE FLIGHT

If your helicopter pulls or drifts in any direction (unrelated to air currents) when the sticks are at neutral, you can use the trim controls to tune out any unwanted flight motions.

- The trim buttons will adjust each control in a small increment with each 'click'. Press the trim button as many times as is required until the model holds a steady hover with little or no correction required.
- As you adjust each trim, the transmitter LCD will show you the trim position as a numeric value. There are 25 trim steps in each direction for Rudder, Elevator, and Aileron. Tones indicate the center and end points. When your model is trimmed for stable flight, the trim display may not indicate that the neutral setting is zero. This is normal.



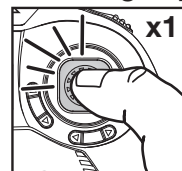
Note: If your helicopter still doesn't perform correctly, visit LaTrax.com for more information and troubleshooting tips.

FLIGHT MODES

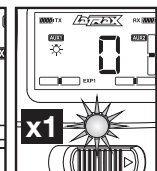
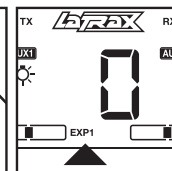
Normal, Expert 1, Expert 2

- The transmitter is set to **Normal Mode** by default (the easiest flight mode), and it will always power up in Normal Mode. Normal mode limits control input (low rate) and uses the full capability of the flight control system (auto leveling).
- Activate one of the Expert Modes (EXP1 or EXP2) for even greater performance capability and access to tricks (the model and transmitter must both be on). Modes are toggled by clicking the flight stick. From Normal Mode, click the flight stick for Expert Mode selection.
- **Expert 1 (EXP1):** From Normal Mode, click the flight stick once. The transmitter will beep 2 times, the green LED will begin flashing, and the LCD will display EXP1. EXP1 uses the full capability of the flight control system (auto leveling), but allows greater control input (high rate). EXP1 Mode also enables trick functions.

Selecting Expert 1

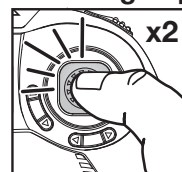


Click Once



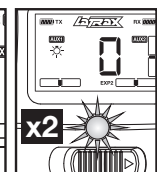
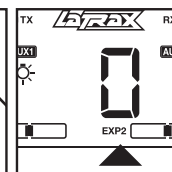
Flashing

Selecting Expert 2



Click Twice

(Click again to return to Normal Mode)



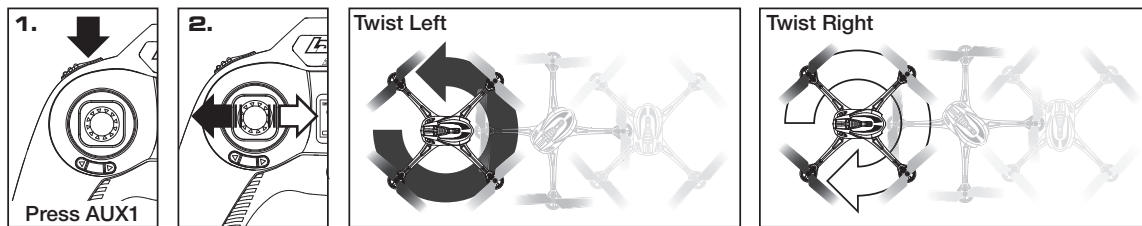
Double Flashing

- **Expert 2 (EXP2):** From Normal Mode, click the flight stick twice. The transmitter will beep 3 times, the green LED will begin double flashing, and the LCD will display EXP2. EXP2 Mode is a rate mode. The flight control system (auto leveling) is disabled allowing the pilot to have full control over all aspects of flight. **WARNING: This mode is intended for expert level pilots only! For more information on how to perform expert tricks and flips, visit LaTrax.com.**

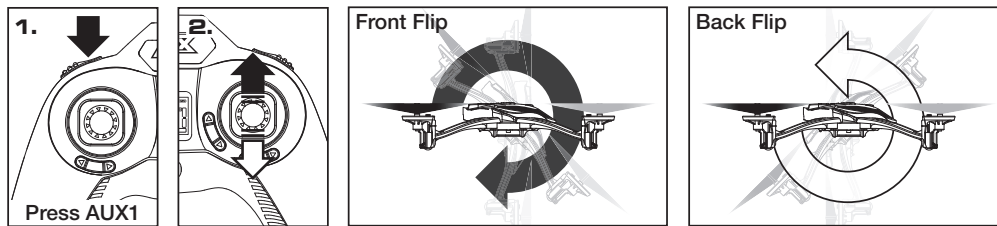
ADVANCED FLIGHT: PERFORMING TRICKS

In Expert 1 Mode (EXP1), Alias can perform automated expert tricks and flips when you press the AUX1 button, and then enter a quick stick command in the chosen direction. **Do not attempt these flight tricks until you are able to fly confidently in Expert 1 Mode (EXP1).** Choose an area that will provide a soft landing (carpet or grass) and maintain enough altitude to allow room to recover control as you practice flipping the model.

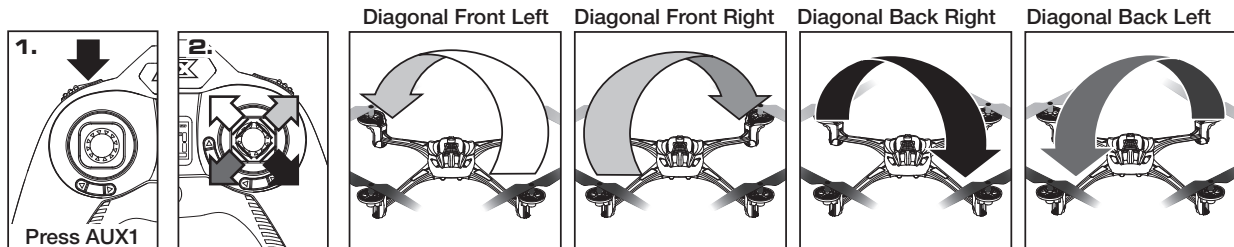
Twister: Continuous spin while maintaining normal directional and altitude control. The helicopter will spin 5 times, and then stop at its starting orientation.



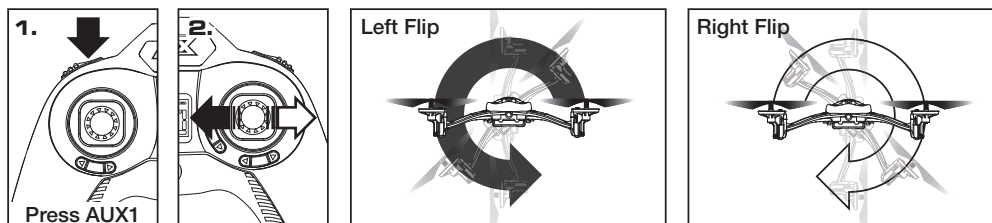
Front and Back Flips



Diagonal Front and Back Flips



Side Flips



Expert Level Pilots

Alias is designed with the capability to program your tricks (multiple flips), change lighting modes, and program the action of the AUX1 and AUX2 buttons on the transmitter. To learn how to access the menu and advanced controls, visit LaTrax.com/moretricks for additional details and instructions.

CARING FOR YOUR HELICOPTER

- After each flight and immediately after any crash, inspect your model for worn or damaged parts. If required, parts are available at your local LaTrax dealer or at *LaTrax.com*. For a complete parts list and exploded view of your model, refer to the Service and Support Guide in this manual.
- When not in use, store your model in its original packaging with the batteries removed from the transmitter and helicopter.
- If you do not plan to fly your model for a week or more, store the battery approximately 50% charged to maintain battery performance and life. To achieve a 50% charge, fly the model until the battery requires recharging. Charge the battery for half the time typically required to fully charge the battery.

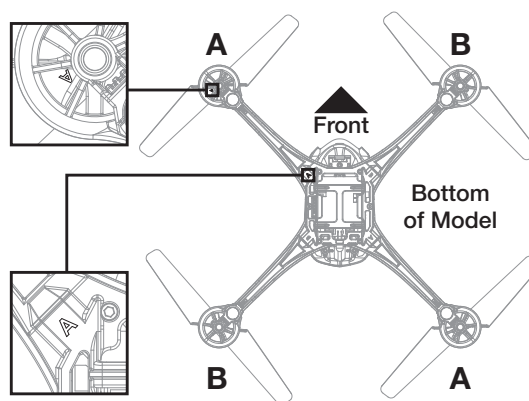


WARNING! Do not store or attempt to charge a swollen or damaged battery!

See *LiPo Batteries* section for more information.

ROTOR BLADE INSTALLATION

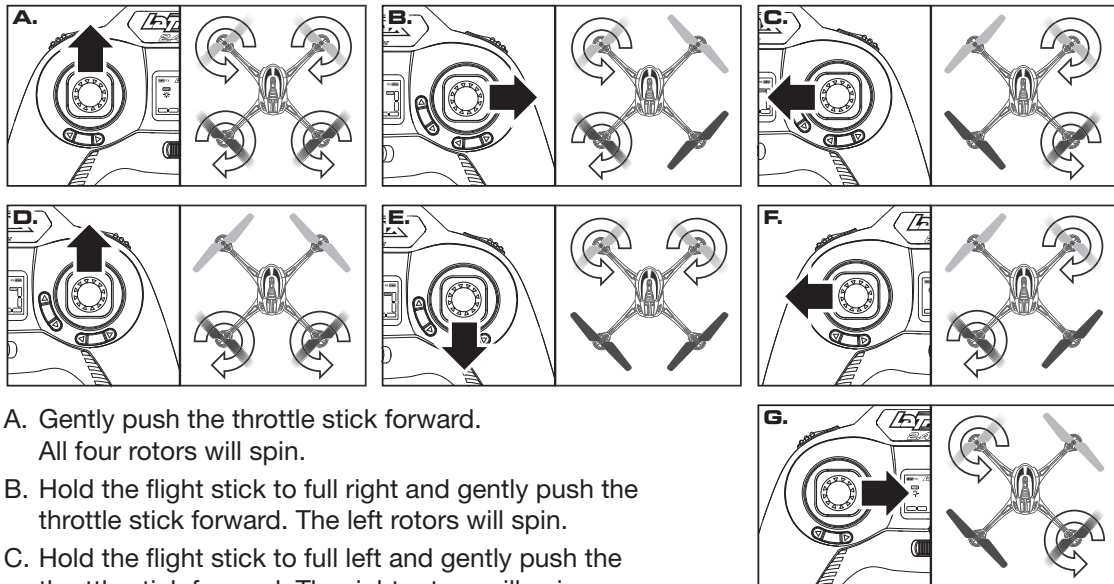
The Alias' rotor blades are not identical. Each blade is labeled with an A or B. When installing replacement rotor blades, be certain to install the rotor blades with the corresponding A or B for each of the legs (A or B labels for the legs are molded on the bottom of the helicopter chassis). The helicopter will not fly if the rotor blades are not installed in the proper locations.



TROUBLESHOOTING GUIDE

- **The transmitter and the helicopter are on, but the helicopter won't fly.**
 1. The model is not armed or has timed-out. See step 5 of the "Flying Your Model" section to arm your helicopter.
- **The helicopter does not perform a trick when the AUX1 button is pressed and then a stick command is given.**
 1. The transmitter is not in Expert 1 (EXP1) Mode. See the "Flight Modes" section.
- **All of the LED lights on the helicopter are flashing.**
 1. The helicopter has gone into over-current protection mode. Move the helicopter to a clear area, arm the helicopter again, and continue flying. If the helicopter will not fly correctly or the LED lights start flashing again, unplug the battery and inspect the helicopter for damage.
- **The helicopter is drifting on its own.**
 1. The helicopter is out of trim. Correct this by using the trim buttons. See "Adjusting The Controls for Stable Flight."
- **The helicopter landed by itself, and now the throttle will not respond.**
 1. The helicopter battery needs to be recharged.
- **The blue LED on the helicopter is blinking, and the LED on the transmitter is solid.**
 1. The helicopter battery needs to be recharged.
- **The LED is blinking on the transmitter, and the transmitter will not control the model.**
 1. The transmitter is in binding mode. Confirm that the helicopter is powered on and in binding mode (blinking LED, LCD displays rotating segments). Move the transmitter to within one foot of the helicopter. The transmitter and helicopter should bind (indicated by a tone from the transmitter, solid LEDs on both the transmitter and helicopter, and the Disarmed Flight Screen on the transmitter LCD).
 2. There was a problem with the binding process. Power down the transmitter and the helicopter, and then power them on again (transmitter first, then helicopter). The transmitter and helicopter should bind (indicated by a tone from the transmitter, and solid LEDs on both the transmitter and the helicopter, and the Disarmed Flight Screen on the transmitter LCD).
 3. The model is not armed or has timed-out. See step 5 of the "Flying Your Model" section to arm your helicopter.

- **The transmitter settings have been adjusted incorrectly for optimal flight.**
 1. Return the transmitter to the default settings.
 - A. Ensure the transmitter is off.
 - B. Press and hold both AUX buttons.
 - C. While holding the AUX buttons, turn the transmitter on.
 - D. Continue holding the AUX buttons for 3 seconds until the transmitter beeps.
 - E. The transmitter is reset and is in bind mode.
- **The battery charger has been connected to a computer USB port and the helicopter battery has been connected to the charger, but the battery will not charge.**
 1. Some computer USB ports will not support fast charging. Switch the charger to the Normal charge setting. For the best charging performance, use the Fast charge setting with a USB wall adapter rated at 1 amp or greater output.
- **The helicopter battery is fully charged and the rotor blades are spinning, but the helicopter will not lift off.**
 1. The rotor blades have been installed incorrectly. See “Rotor Blade Installation.”
- **The altitude of the helicopter is reduced during acceleration or the helicopter performs erratically.**
 1. Confirm proper control operation. Place the model on a smooth surface with the front of the model facing away from you.



- A. Gently push the throttle stick forward.
All four rotors will spin.
 - B. Hold the flight stick to full right and gently push the throttle stick forward. The left rotors will spin.
 - C. Hold the flight stick to full left and gently push the throttle stick forward. The right rotors will spin.
 - D. Hold the flight stick full forward and gently push the throttle stick forward.
The rear rotors will spin.
 - E. Hold the flight stick full rearward and gently push the throttle stick forward.
The front rotors will spin.
 - F. Gently push the throttle stick forward as you hold the throttle stick to the left.
The right front and left rear rotors will spin.
 - G. Gently push the throttle stick forward as you hold the throttle stick to the right.
The left front and right rear rotors will spin.
2. **One or more of the motors is damaged.**
 - A. The motors in the helicopter are high-performance motors that will wear over time and require replacement. If one motor fails and requires replacement, it is likely the remaining motors are equally worn. All four motors should be replaced at the same time. Visit LaTrax.com to learn how to identify motor issues and to find more information on motor replacement.
 3. **The accelerometer needs to be reset.** Go to LaTrax.com for additional information and instructions or call the LaTrax Technical Support Line toll-free at: 1-888-872-9927.

**Visit LaTrax.com for more information on the advanced functions
and additional features of your LaTrax Alias!**

ALIAS™

MODEL 6608

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