

FIRE STRIKE PRO

BLACKHAWK



Revell, Inc., a subsidiary of
Hobbico®, Inc., Champaign, IL 61826

Contents



Blackhawk



Controller



Instruction Manual

Main Features

Blackhawk:

- Durable, detailed scale body
- On/off switch and charging jack
- Counter-rotating rotor blades for stable flight
- Built-in LiPo (lithium-polymer) rechargeable flight battery
- Realistic left/right, forward/backward, and up/down scale-like controls

Controller:

- Three-channel digital proportional control
- Trim dial to adjust flight orientation
- Charge status and power-on LED
- Easy and convenient battery recharging directly from the controller

Do not touch the spinning blades or fly over another person's head. Adult supervision is required.

Safety Precautions:

Warning: Do not modify or alter this unit. 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.

- Do not turn on the Blackhawk helicopter unless the controller has been turned on first.
- Keep hands, hair and loose clothing away from the spinning blades.
- Turn off the controller and Blackhawk when not in use.
- Remove the battery from the controller when not in use.
- Parental guidance is recommended while flying.
- Always keep your Blackhawk in sight while flying.
- For the best performance, use new alkaline batteries in the controller.
- Replace the batteries in the controller with new ones as soon as any function becomes diminished.
- Keep these instructions for future reference.
- Follow the operating instructions exactly.
- Your controller's built-in charger is made specifically for the rechargeable Blackhawk LiPo battery. Do not use it to charge any other battery.



FCC REQUIREMENT

NOTE: This equipment has been tested and found to comply with the limits for 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 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.

Care and Maintenance:

- Always remove the batteries from the controller when it is not being used for a long period of time.
- Wipe the toy gently with a clean, damp cloth.
- Keep the toy away from direct heat.
- Do not submerge the toy into water. This could damage the electronic assemblies.

Adult supervision is required.

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.

Battery Cautions:

- Non-rechargeable batteries are not to be recharged.
- If the controller uses rechargeable batteries, remove them before recharging.
- Rechargeable batteries should be recharged only by an adult.
- Do not power the controller by mixing different types of batteries, or old and new batteries.
- Use only batteries of the same or equivalent type as those recommended.
- Install batteries following the correct polarity.
- Remove exhausted batteries from the controller.
- Do not short-circuit the supply terminals.

The Blackhawk is equipped with a rechargeable LiPo battery.

Please pay attention to the following cautions for safe use:

- Do not dispose of the battery into fire or heat.
- Do not use or leave the battery near a heat source, such as fire or a heater.
- Do not strike the battery or throw it against a hard surface.
- Do not immerse the battery into water. Keep the battery cool and dry.
- When recharging the battery, use only the charger designed for that purpose.
- NEVER leave the battery unattended while charging.
- Do not over-discharge the battery.
- Do not connect the battery to an electrical outlet.
- Do not directly solder the battery or pierce it with a nail or other sharp object.
- Do not transport or store the battery together with metal objects such as necklaces, hairpins, etc.
- Do not disassemble or alter the battery.
- Charge the battery every six months.
- Turn off your equipment power switch after use.
- Recycle used batteries after covering the battery terminals with insulation tape or inserting the battery into an individual polybag.

Note:

- Parental guidance is recommended when installing or replacing batteries.
- Static electricity may cause the toy to malfunction, requiring you to turn it off and back on before flying again.

Note Specifically for Adults:

- Regularly examine all parts of the toy for damage. If any is found, do not use the toy again until the damage has been repaired.
- This toy is not intended for children under 8 years old.
- This toy must be used only with the recommended charger.
- Do not try to charge other batteries with the controller's charger.

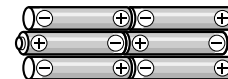
Battery Requirement for Blackhawk:

Requires: 3.7V LiPo Rechargeable Battery Pack (included and installed)

Battery Requirements for Controller:

Rating: DC 9V

Requires: 6 x 1.5V "AA" size batteries (not included)



CAUTION: Changes or modifications to this product not expressly approved by the party responsible for compliance may void the user's authority to operate the equipment.

WARNING:
CHOKING HAZARD — Small parts.
Not for children under 3 years of age.

"This product is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC."

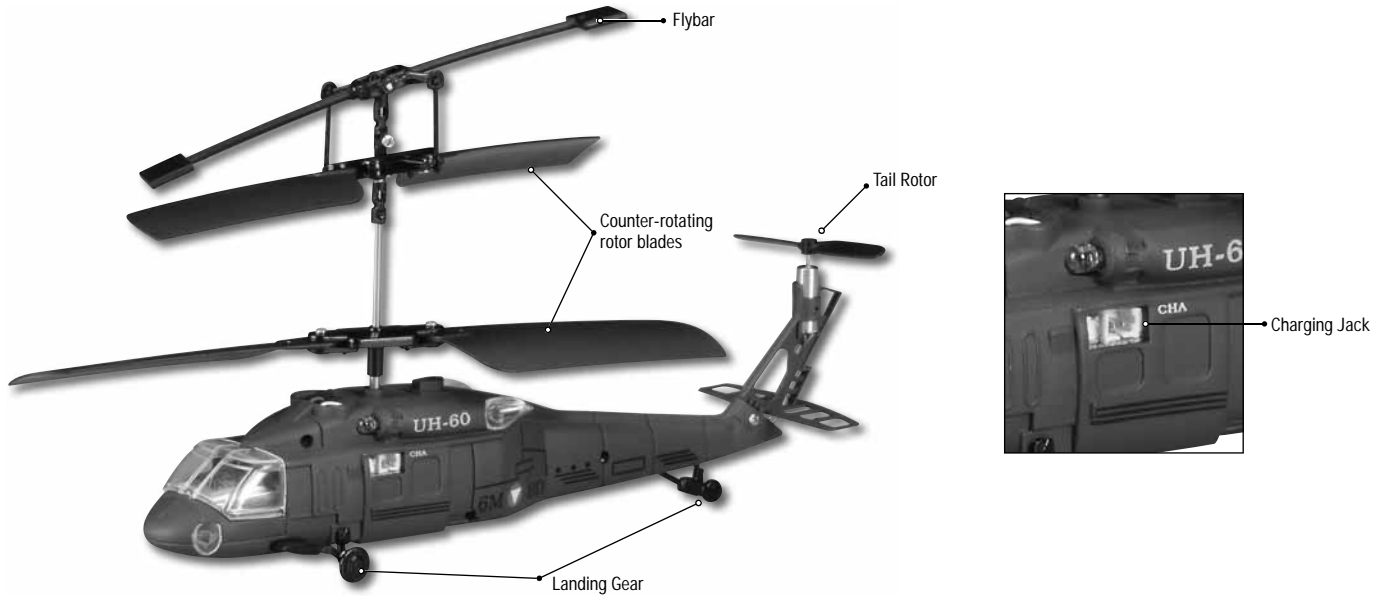


Do not touch the spinning blades or fly over another person's head. Adult supervision is required.

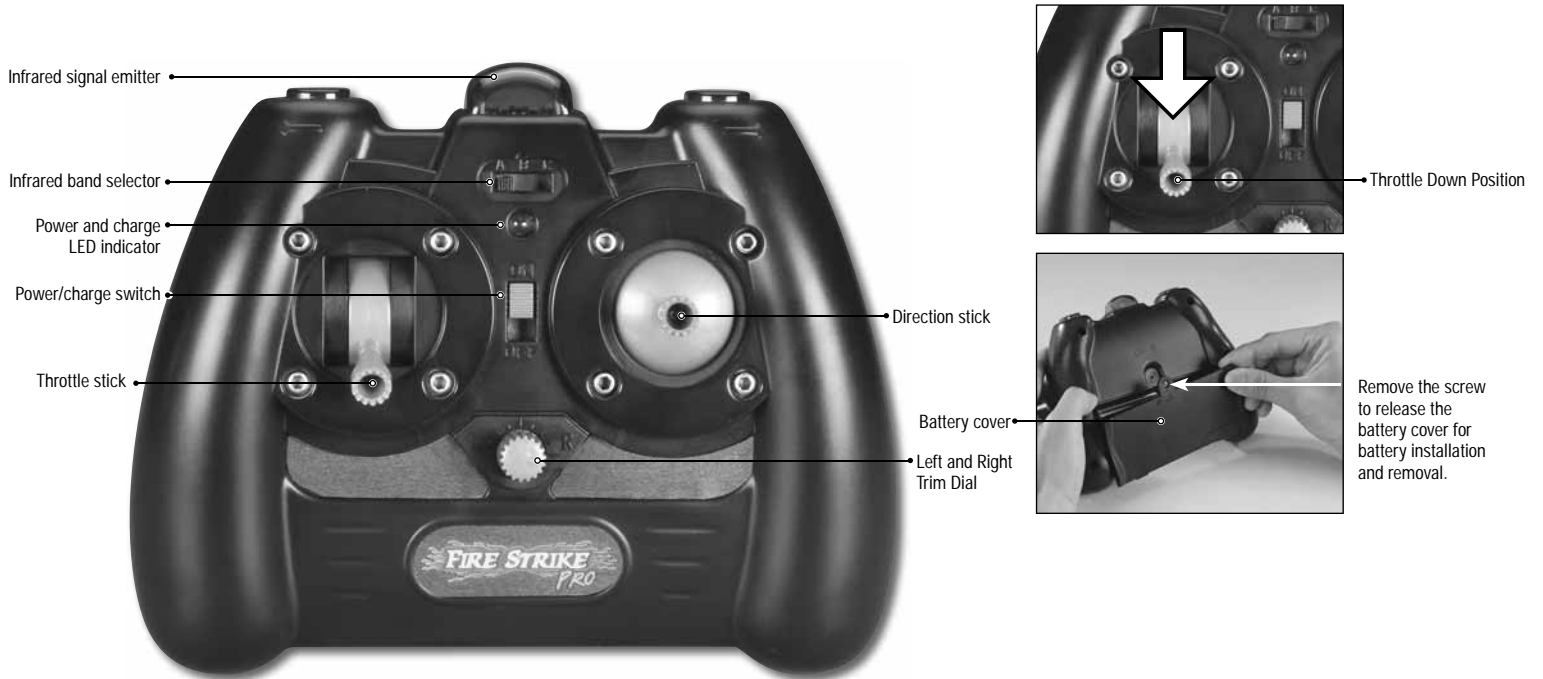


Blackhawk and Controller Parts

Blackhawk



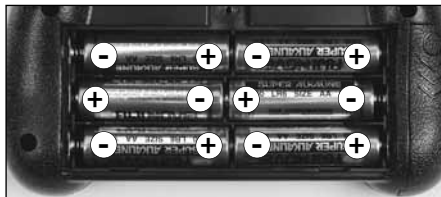
Controller



Controller Battery Installation



1. Remove the screw above the battery cover by turning it counter-clockwise using a Phillips-head screwdriver.



2. Install 6 "AA" size batteries in the battery compartment following the polarity shown inside.

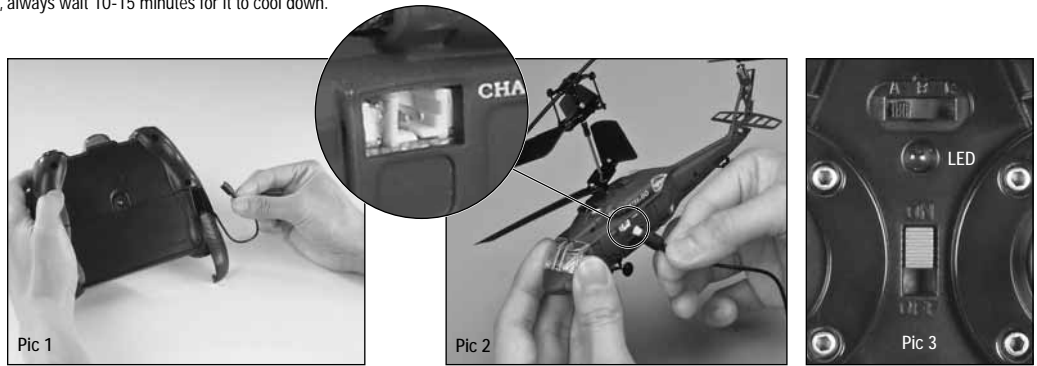


3. Replace and tighten the screw clockwise.

Blackhawk Charging Procedure

Note: Before recharging the Blackhawk's LiPo battery after flying, always wait 10-15 minutes for it to cool down.

1. Turn off both the Blackhawk and the controller.
2. Pull out the charge cord from the left side of the controller. (Pic 1).
3. Carefully plug the charging cord into Blackhawk (Pic 2). DO NOT FORCE. When inserted properly, the charging cord should fit easily in the charging port. Incorrect insertion of the charging cord will damage the Blackhawk and may create a hazard.
4. Turn the switch to the ON position on the controller. (Pic 3).
5. The controller's LED will illuminate green while simultaneously flashing red. (Pic 3).
6. When the LED shines steadily red without flashing, charging is complete.
7. Disconnect the charging cord from the Blackhawk.



The Blackhawk can fly for about 5-6 minutes after 25-30 minutes of charging.

Flying Your Blackhawk

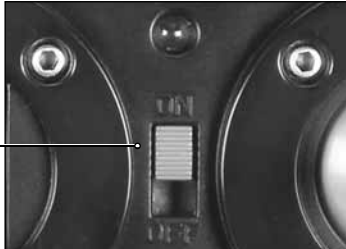
Set the infrared band selector switch on the transmitter to the same letter found on the bottom of the Blackhawk.



Then, set the ON/OFF switch of the Blackhawk to ON.



With the throttle (or left) stick of controller in the down position, move the controller's power/charge switch to ON.



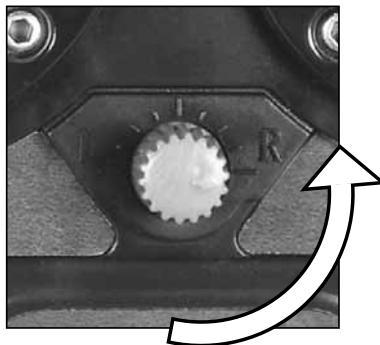
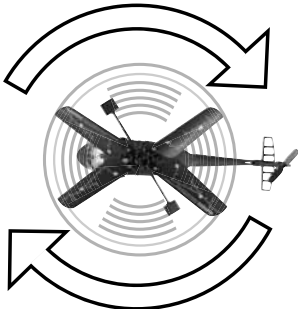
Place the Blackhawk on the ground with its tail pointing toward you.



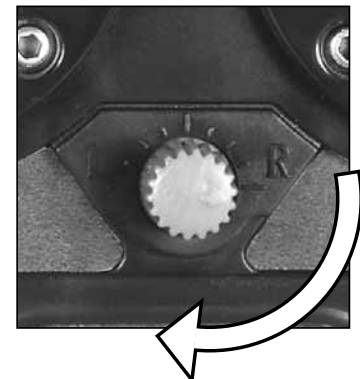
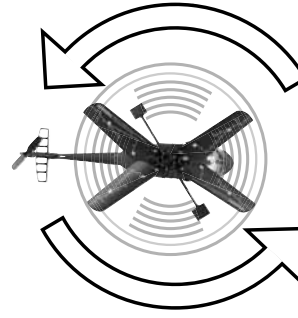
1. HOW TO TRIM:

- Gently push the throttle up to raise your Blackhawk about 1.5 feet (0.5 meter) to 3 feet (1 meter) high.

Spirals right or Keeps turning right



Spirals left or Keeps turning left



If the Blackhawk spirals to the right or keeps turning right, turn the left and right trim dial counter-clockwise until the Blackhawk no longer spirals.

If the Blackhawk spirals to the left or keeps turning left, turn the left and right trim dial clockwise until the Blackhawk no longer spirals.

Flying Your Blackhawk (continued)

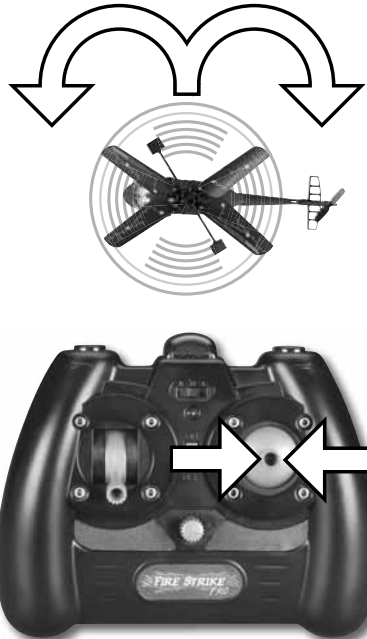
2. HOW TO CONTROL FLIGHT:

Up and Down Hovering:



From steady flight, slowly pushing the throttle stick upward will make the Blackhawk fly higher. To make it fly lower, simply lower the stick a little. Smooth flying takes only small changes in the stick position.

Left and Right Turns:



Hold the Blackhawk steady in the air. Push the direction stick left to turn left, and push the direction stick right to turn right.

Moving Forward and Backward:



Hold the Blackhawk steady in the air. Push the direction stick forward to move forward, and push the direction backward right to move backward.

3. HOW TO LIFT-OFF (after Trimming):

- Place the Blackhawk on a smooth surface. An uneven floor surface will affect its take-off.
- Slowly increase the throttle.
- DO NOT look at the controller while flying. Focus on the Blackhawk.
- As soon as the Blackhawk leaves the ground, reduce the throttle slightly. Adjust the throttle as necessary to maintain altitude.
- Gently add throttle if the Blackhawk descends.
- Gently reduce throttle if the Blackhawk climbs.
- For turning, give short and small inputs to the direction stick. (Most beginners will initially over-control the Blackhawk.)

Safety Tips

- Read through the entire instruction manual before flying your Blackhawk.
- This product should be flown only indoors.
- Make sure that you and other people stay 3 to 6 feet (or 1 to 2 meters) away from the Blackhawk while you begin flight.
- Always keep your eye on the flying toy to prevent it from flying, landing, or crashing on or near your head or body, or on other people.
- Never disassemble or attempt to modify the Blackhawk. You could damage the product and create the potential for damage or injury.
- Never put your hands or face close to rotating parts. Doing so risks injury. Never operate the Blackhawk while sitting on the floor or on a chair — always fly from a position that lets you get out of the way quickly if necessary.
- Always switch off both the Blackhawk and the controller when you leave the controller unattended. If the power switch is left on, unintended stick operation might occur (for example, if the controller falls face-forward onto the floor).
- Due to the dangers of the rotating parts no one under the age of eight should be allowed to operate the Blackhawk.
- Never use parts that are damaged.

4. FLIGHT LOCATIONS:

Choose a location that meets the following criteria:

1. Indoors, with little air movement. Avoid circulating air from heating and air conditioning.
2. Room sizes should be at least 10 feet (3 m) wide x 10 feet (3 m) long x 8 feet (2.4 m) high.
3. Avoid flying in areas with electric fans, air conditioning, reading lamps or other objects that could interfere.

Operating Tips

- Always move the controller's throttle stick to the down position after a crash.
- Do not fly in direct sunlight or very bright lighting — these can affect the control system of your toy.
- Do not cover the infrared signal emitter of the controller. If you do, no signals can be sent to your Blackhawk.
- Do not place any other labels or stickers onto the Blackhawk. These will interfere with its ability to receive the infrared signal.
- Two Blackhawk models cannot be flown on the same infrared band.

Control Tips

- When moving the sticks of the controller, avoid pushing them immediately to the extreme positions. They should be moved gradually like steering a bicycle, not sharply like operating computer game joysticks.
- After completing the trimming procedure, beginner pilots should focus exclusively on mastering the throttle stick first. Even if the Blackhawk turns around a bit by itself, there is no need to keep it flying straight — just learn how to maintain a constant altitude of about 3 feet (or 1 meter) with small inputs from the throttle stick. After accomplishing that, you can learn to take control with the direction stick.

Trouble Shooting

Problem: Blades can't turn.

Cause: • ON/OFF switch is OFF.
• Weak battery.

Solution: • Set switch to ON.
• Recharge the battery.

Problem: Blackhawk suddenly stops flying and drops.

Cause: Too little power.

Solution: Recharge the battery.

Problem: Loss of control.

Cause: • Another infrared control device is interfering.
• Strong lighting is interfering.
• Infrared band selector switch is in wrong position.

Solution: • Avoid other devices with infrared controls.
• Choose another flying location.
• Set the infrared band selector switch to the same letter found on the Blackhawk.