PROTOCOL®

TACTICAL CARGO™

REMOTE CONTROL HELICOPTER

INSTRUCTION MANUAL

FCC Statement

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 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.

WARNING: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

The device must not be co-located or operating in conjunction with any other antenna or transmitter.


PROTOCOL

THANK YOU.

Thank you for your purchase of Protocol's **Tactical Cargo Remote Control Helicopter.** You are about to experience the best of what remote control flight has to offer. We strongly recommend that you take the time to read this manual thoroughly. It contains many tips and instructions on how to get the most out of this aircraft and maintain it for a long life.

As with any aircraft, this is a precision flying machine. Treat it well and enjoy all the fun it has to offer, flight after flight.

TABLE OF CONTENTS

SAFETY WARNINGS

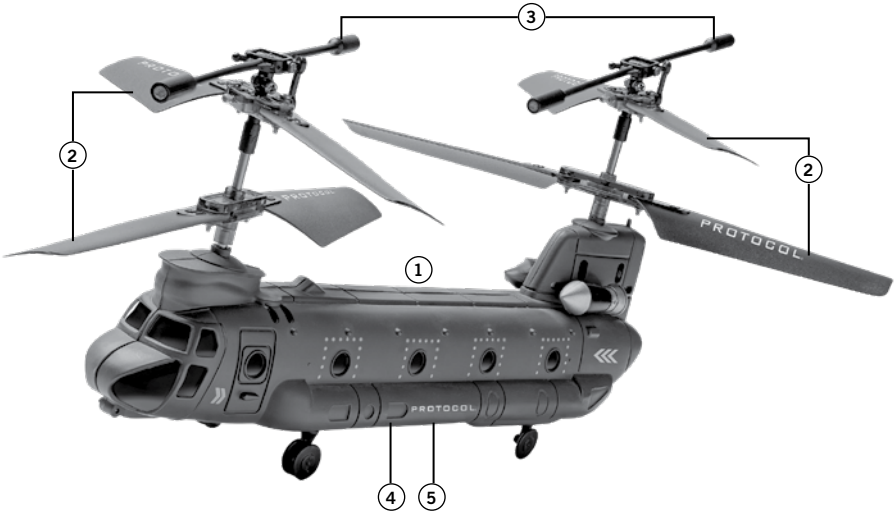
HAVE FUN, BUT SAFETY FIRST!

- Read and follow instructions on how to synchronize electronics before each flight.
- To prevent damage to people or property, always avoid contact with other objects while in flight.
- Inspect aircraft prior to each flight and do not fly if damaged.
- Never expose product or any of its electronic parts to moisture, water, or heat sources.
- To prevent overheating, allow battery a cool-down period before recharging.
- To prolong engine life, allow a cool-down period between flights.
- Use only the charger and/or charging cable that is supplied with this item.
- Do not strike, cut, or pierce the internal battery or subject it to hard impacts.
- Do not mix old and new batteries or mix different types of batteries.
- Never attempt to modify function of vehicle or controller or attempt repairs using parts other than those supplied by Protocol. Spare parts are available at **www.ProtocolNY.com**

THIS DEVICE USES COMPONENTS THAT OPERATE AT HIGH SPEEDS. AS WITH ANY SUCH DEVICE, USE CAUTION TO OPERATE SAFELY.

FAILURE TO FOLLOW ANY OF THESE GUIDELINES MAY RESULT IN BODILY INJURY OR DAMAGE TO PERSONAL OR PUBLIC PROPERTY.

PARTS



HELICOPTER

1. Canopy
2. Blade
3. Balance Bar
4. Charging Port (underneath)
5. Power Switch (underneath)

PARTS

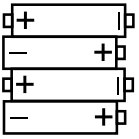
REMOTE

1. Power On/Off
2. Forward/Backward
3. Left/Right Turn
4. Take Off/Land (short press)
5. Stop Engine
   (press for 3 seconds)
6. Right Trimmer
7. Left Trimmer
8. Throttle

REMOTE BATTERY

INSTALLING THE BATTERIES

4 X 'AAA'
(NOT INCLUDED)



BATTERY COVER

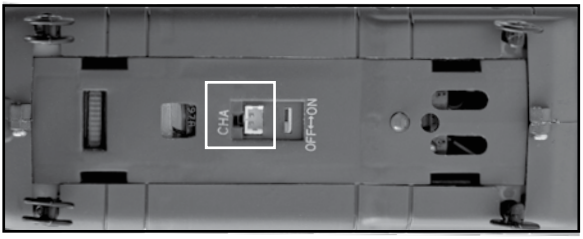
Remove battery cover from controller. Insert 4 x 'AAA' batteries according to indicated polarities. Replace battery cover.

1. Install batteries carefully.
2. Do not mix old and new batteries.
3. Do not mix different types of batteries.

CHARGING THE HELICOPTER BATTERY

1. Make sure the helicopter is turned off.
2. Connect the USB charging cable to the helicopter charging port.
3. Plug the charger into a USB port. The USB light will stay off while charging and will turn on once fully charged.

Charging time: 60 minutes --- Flying time: approximately 6 minutes



DO NOT CHARGE OVERNIGHT OR BEYOND THE CHARGING TIME STATED.
DO NOT LEAVE BATTERY UNATTENDED.

*Battery: Li-Po, 3.7V, 150mAh

CAUTION WHEN CHARGING

1. When charging, place product on a dry, well-ventilated surface and keep away from heat sources.
2. Always use adult supervision while charging.
3. In order to increase battery longevity, avoid repeat charging and excessive discharging.
4. As battery temperature is high immediately after flight, charge after cooling down for higher efficiency.
5. Do not strike or subject battery to hard impacts or sharp surfaces.
6. Do not use any other charger than that which is supplied with this item.
7. Do not use or leave battery near a heat source such as fire or space heater; exposure to heat may result in reduced performance or in some cases dangerous conditions.
8. If battery is left in charging state for an extended period of time after being fully charged, the battery may automatically discharge.
9. Never leave the battery unattended during charging.
10. Do not disassemble battery.
11. Do not submerge battery in water.

START-UP PROCEDURE

Before flying, the helicopter and transmitter must be turned on in sequence and synchronized.

1. Turn on the helicopter.
2. Place the helicopter on the ground facing away from you.
3. Turn on the remote control.
4. Push the throttle up and then down. The light on the remote will turn steady to indicate it has synced.
5. Your helicopter is now synchronized, and in stand-by mode awaiting Engine Idle command.

NOTE:

1. If after 30 seconds, it has not recognized the helicopter, turn off the controller and repeat Start-Up procedure.

STARTING THE ENGINE; ENGINE IDLE

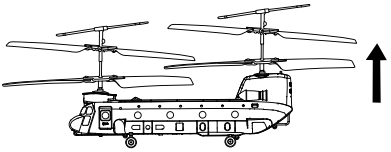
After synchronizing the helicopter, push the throttle up and release to go into idle mode.

The blades will rotate but the helicopter will not lift.

OPERATION: FLYING THE HELICOPTER

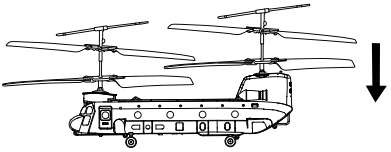
TAKE–OFF:

1. From idle mode, press the take off button or gently advance the throttle up to a desired height and release. The helicopter will hover at that height.*



LANDING:

1. Press the land button and the helicopter will automatically land.
2. Push down on the throttle until the helicopter is on the ground.



NOTE:

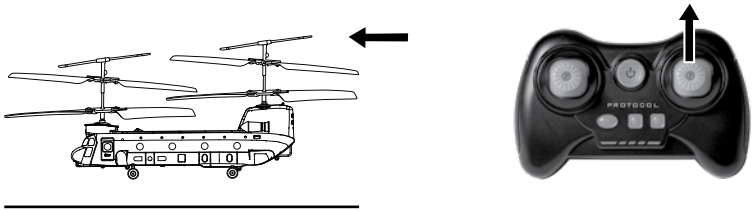
* Emergency Stop: Press and hold for 3 seconds to immediately stop the engine.

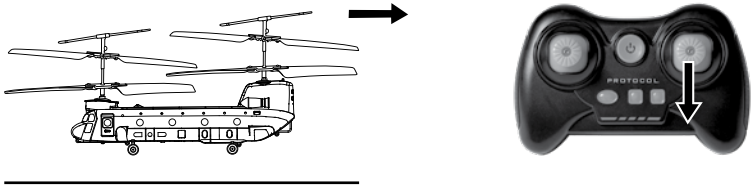
*The helicopter may drift a bit, especially in the first 30 seconds until the altitude sensor gets a good fix on the position. Some drift is normal.

OPERATION: FLYING THE HELICOPTER

FIRST TIME FLYERS!!! TAKE YOUR TIME! GO SLOW!

Practice hovering until you are comfortable with flight before attempting any other maneuvers. If you start to lose control, don't panic. Just press land.

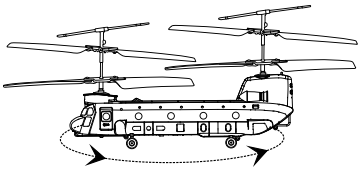




Push the direction lever up or down,
the helicopter flies forward or backward.

Pull the direction lever to the left or right,
the helicopter turns to the left or right.

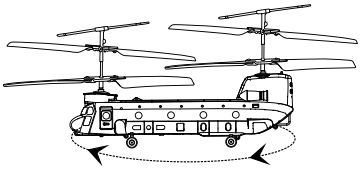
TRIM ADJUSTMENT



Press

LEFT TRIM

When the helicopter spins left unintentionally, you can correct it by pressing the right trim button until it evens out.



Press

RIGHT TRIM

When the helicopter spins right unintentionally, you can correct by pressing the left trim button until it evens out.

*The remote will emit a long beep when trim is centered.

NOTE: TRIM ADJUSTMENTS ARE DESIGNED TO COUNTER DRIFTS NOT CAUSE BY WIND.

TROUBLESHOOTING

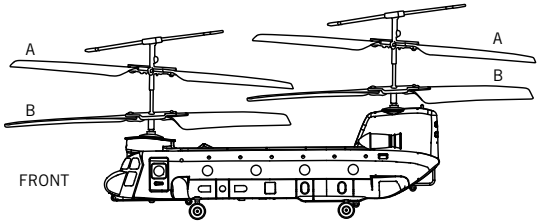
*Allow 15 minutes to pass between full flights as this will give the motors a chance to cool down. Failure to do so could wear out and shorten the life of the motors.

SYMPTOM	POSSIBLE CAUSE	POTENTIAL SOLUTION
Tactical Cargo does not respond	1. Communication between controller and aircraft was not synchronized during set up 2. Battery power depleted on aircraft, controller or both.	1. To synchronize, turn on aircraft first, place it on level ground, and then turn on controller. 2. Charge aircraft and/or replace batteries in controller.
Response to control inputs intermittent or erratic	1. Controller battery power nearly depleted.	1. Replace batteries in controller.
Tactical Cargo will not hover or strafe correctly	1. The aircraft was not on level ground during synchronization. 2. Trim settings are incorrect.	1. Re-synchronize aircraft and controller. 2. Reset the trim buttons on the controller and re-trim flight controls.
The motors stop running	1. If a propeller is stuck, the motors will automatically stop running.	1.Turn off the helicopter and remote and check for debris in the propeller.

TROUBLESHOOTING

HOW TO CHANGE THE BLADES

- All helicopters have two blades that spin clockwise and two blades that spin counter-clockwise.
- Make sure to place the blades on the correct axis or they will not spin correctly and the helicopter will not lift.
- Each blade is marked with A or B. There may be a number after the letter but you can ignore the number.
- Make sure to follow the graphic below to see where to place the blades.



FLY AWAYS

HOW TO PREVENT FLY AWAYS

To prevent “fly-away” situations (where helicopters seem to fly away out of control) it is important to first test and practice within close range before letting the helicopter fly too far away.

Each helicopter is designed to turn off the engines if the radio signal is lost. It is important to know and test the range of your helicopter before flying. We recommend turning on and syncing the helicopter and walking away while testing the engines. Keep walking and testing until it is obvious when you reach the point where the signal is not controlling the helicopter. This will be the control limit for the conditions in which you are flying. Distance does vary somewhat based on environmental and weather conditions, so testing the limit is advised. Fly in a range that is good for easy visual operation of the helicopter.

IF YOU CAN’T SEE YOUR HELICOPTER, THEN YOU CAN’T CONTROL YOUR HELICOPTER.

* Fly-aways are not covered by warranty as they are overwhelmingly caused by pilot error.

REPLACEMENT PARTS

Thank you for your purchase of Protocol's **Tactical Cargo Remote Control Helicopter.** We know that accidents can sometimes happen and that is why we offer spare parts kits on our website: **www.ProtocolNY.com.**

LIMITED WARRANTY

At Protocol, we're dedicated to bringing you innovative and well-designed products that make living fun and easy. We stand behind all of our products and warrant this to be free from defects in workmanship and materials for 30 days from the date of purchase. The warranty does not cover transportation damage, misuse, accident, or similar events. Specific legal rights pertaining to this warranty may vary by state.

For service claims or questions please consult our website **www.ProtocolNY.com.**