

SKY TROOPER

Flight Manual



Do not touch the running rotor blades!
Do not fly above people's heads!
Adult supervision is required

SAFETY PRECAUTIONS

- Do not modify or disassemble the unit or its components. Doing so will void your warranty and may cause electrical damage.
- Keep hands, fingers, hair and loose articles of clothing away from the rotor blades.
- Turn off the transmitter and the helicopter when not in use.
- Always remove batteries from your transmitter when you have finished flying for the day. Do not store batteries inside the transmitter.
- Adult supervision is required.
- Always use fresh alkaline batteries in the transmitter for optimum performance.
- Replace the batteries as soon as the use of the helicopter becomes impaired.
- Please read this manual completely before operating and keep this information for reference.
- The helicopter's charger is specifically designed for the battery in the airplane. Do not attempt to charge any battery than the one in the helicopter.

FCC STATEMENTS

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 correcting 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.

BATTERY CAUTIONS:

- Never charge your Sky Trooper for more than 30 minutes.
- Never attempt to charge non-rechargeable batteries.
- Allow the built-in flight pack to cool for 10 minutes after flying before recharging.
- Never mix new and used batteries or different types of batteries.
- Batteries must be inserted into the transmitter with proper polarity.
- Do not short-circuit the battery terminals.

CARE AND MAINTENANCE:

- Always remove the batteries from the transmitter when it is not being used.
- Keep the Sky Trooper away from heat.
- Do not submerge the Sky Trooper in water or allow its components to get wet.

SPECIAL NOTE TO ADULTS:

- Periodically check the charging system, wire, battery pack and all electrical connections for damage. In the event of damage, the parts should not be used until properly repaired or replaced.
- This product is not intended for children under 8 years old.
- Only charge the Sky Trooper with the included charger.
- Do not attempt to charge any other batteries with the included charger.

PACKAGE CONTENTS

- A. Sky Trooper micro helicopter
- B. Transmitter w/ integrated peak charger
- C. Spare tail rotor blade
- D. Transmitter Antenna

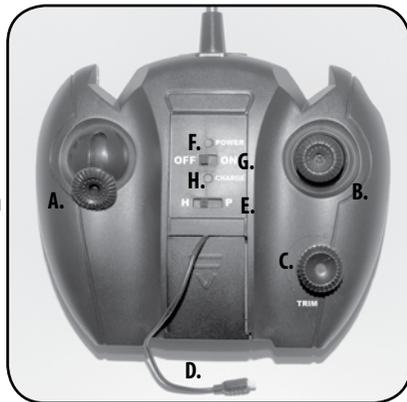
WARNING:

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



TRANSMITTER

- A. Throttle Control Stick** - When it is all the way pulled back, the motor is off. Full power is reached when the throttle control stick is positioned all the way forward.
- B. Tail Rotor Control Stick** - Makes the Sky Trooper turn left and right.
Note: You can only use the directional control stick when throttle input is given.
- C. Tail Rotor Trim Dial** - This adjusts for straight and stable flight when the tail rotor control stick is in the neutral position.
- D. Charging Cord** - Located inside a compartment at the base of the transmitter and used when charging the Sky Trooper.
- E. Channel Switch** - This switch needs to be set to H for your helicopter to operate.
- F. Power LED** - Illuminates red, the transmitter power is ON and you have adequate power to control your helicopter.
- G. Power Switch** - Turns your transmitter on and off.
- H. Charging LED** - Illuminates green when the transmitter is in charging mode.



IMPORTANT NOTE: The transmitter has an auto shutoff feature. If the transmitter power is left ON for 10 minutes without any control input or charger output, the transmitter will turn off. You will need to flip the power switch OFF and ON to reset the transmitter.

FLYING PREPARATION

BATTERY INSTALLATION - TRANSMITTER:

Make sure the power switch on the helicopter and transmitter are in the off position.

1. Use a Philips head screwdriver to unscrew the battery hatch screws.
2. Put 6 AA size batteries in the transmitter, paying close attention to the polarity symbols (+ & -)
3. Replace the cover and tighten the screw.

BATTERY CHARGING:

1. Open the compartment on the front of your transmitter that contains the charging cord.
2. Turn off the power switch on the helicopter and turn on the power switch on the transmitter. The red LED on the transmitter should illuminate.
3. Plug the charging cord into the Sky Trooper into the charging socket on the plane below the On/Off switch. Pay attention to the polarity of the charging connector.
4. The green LED will illuminate while the helicopter is charger and will turn off when charging is complete.

FLIGHT AREA AND WEATHER SUGGESTIONS:

1. Fly in areas in open areas free from obstacles.
2. If flying indoors, breezes from fans, air conditioning or even a person walking can affect performance .
3. Only fly outdoors when there is no wind. Your helicopter is extremely light and its performance can be affected.



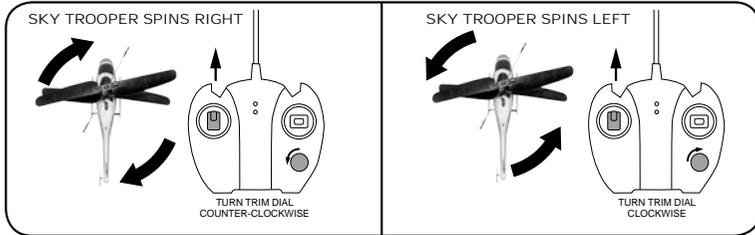
FLYING YOUR HELICOPTER

1. Turn ON the transmitter first, then turn ON the Sky Trooper.
2. Extend the transmitter antenna fully.
3. Place the Sky Trooper on the ground about 5 feet in front of you.
4. The transmitter has a safety feature that prevents the helicopter from turning on too soon. To deactivate it, move the throttle all the way forward then all the way back.
5. Slowly push the throttle stick forward.
6. Once at the desired altitude, use the right stick to turn the helicopter right or left.
7. Refer to the table below for the transmitter controls.
8. Landing: Throttle down slowly and let your Sky Trooper land on the ground gently.

Left Stick	Right Stick	Action
↑	/	↑ Take off and go up
↓	\	↓ Go down and land
Enough to keep altitude	←	↶ Turn left
Enough to keep altitude	→	↷ Turn right

FLYING TIPS

1. The Sky Trooper will normally hover with only a little more than half throttle.
2. If the spins or turns as you take-off without you moving the right stick, you need to use the trim dial to adjust it. Use the following diagram.



REPAIRING YOUR SKY TROOPER

- If the tail rotor breaks during flight, gently pull off the damaged rotor and press on the new tail rotor blade until it can not go any further.
- Use foam safe glue to repair cracks or damage to the fuselage assembly.

TROUBLESHOOTING

Always make sure your transmitter batteries are fresh and your helicopter is fully charged, as this can be the cause of many operational issues

PROBLEM	CAUSE	SOLUTION
Rotors do not spin	Rotors may be binding	Check to make sure both rotor assembly's spin freely
Rotor blades only run for short time before turning off OR Throttle/Tail rotor pulse OR Control signal is lost	Antenna is not fully extended	Fully extend the transmitter antenna
	Signal path from Transmitter to helicopter is blocked	Make sure there is no obstruction
	Transmitter is too far or too close to the helicopter	Move the transmitter closer or further from the helicopter until you regain signal.
Helicopter does not hover, fly straight, or starts to spin	You may have radio interference	Try a different location
	Improper take off	Review take off procedure
	Helicopter is not trimmed correctly	Make sure the tail rotor is trimmed for stable flight by following the instructions
	Too much tail rotor control input is being used	Use smaller gentle inputs
Helicopter loses altitude rapidly during turns	Counterweight was not added to the tail.	Attach counterweight for hover only mode.
	Tail is not securely mounted on the fuselage	Double check to make sure tail is secure and if needed use foam safe glue to repair
	Too much or too little control input is given	Reduce or increase the amount of control input given until the helicopter flies stable
	No power to radio control transmitter and charger or the transmitter RED LED is flashing	Batteries in the transmitter are incorrectly installed
No power to radio control transmitter and charger or the transmitter RED LED is flashing	Batteries in the transmitter are exhausted	Replace the batteries with new "AA" 1.5V alkaline batteries
	Transmitter safety feature has not been activated	After your transmitter and airplane are on, your transmitters throttle must be pushed all the way forward then moved all the way back in order for control to function.
	Power switch is in the "OFF" position	Move power switch to the "ON" position
No green light on transmitter when charging or Helicopter will not charge	Power switch on the Helicopter and/or the transmitter is not in the correct position for charging	Set the Transmitter power switch to "ON" and then make sure the Helicopter power switch is set to "OFF". Plug the charge cord into the Helicopter and the green LED on the transmitter will illuminate.
	Charger Cord is not properly plugged into the Helicopter charge port	Check Charger Cord's connection
Helicopter is not flying high enough	You are not using good throttle control	Increase throttle speed to allow the Helicopter to gain altitude or for the helicopter to fly at a desired altitude.
Helicopter crashed into the ground while landing	You may have used too much tail rotor control stick input	Reduce the amount of tail rotor control stick input. Only use very little input to keep the Helicopter level and stable when landing.
	You may have reduced the throttle speed too quickly or too much	Lower the throttle speed more gradually to allow the Helicopter to land softly.