

# **HOUSEFLY** *Unlimited* 2.4 GHz



## ***Flight Manual***



**megatech**<sup>®</sup>

Worldwide leader in radio control entertainment<sup>™</sup>

***www.megatech.com***

If you have questions about operating or assembling your new Megatech product...  
Please Call Megatech First!

## **DO NOT RETURN THIS PRODUCT TO THE STORE**

*Call our Service Department at:*

*(201) 662-8500*

*or email [support@megatech.com](mailto:support@megatech.com)*

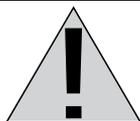
*10am - 5pm EST Monday through Friday (except holidays)*

Technical assistance is also available on the web at [www.megatech.com](http://www.megatech.com)

### **READ ENTIRE MANUAL FIRST BEFORE ATTEMPTING TO FLY**

## **TABLE OF CONTENTS**

Safety Precautions.....	3
Package Contents.....	4
Getting Acquainted with your House-Fly Unlimited.....	4
Installing the Transmitter Batteries.....	5
Charging your House-Fly Unlimited.....	5
Transmitter Adjustments.....	6
Flying Basics .....	7
Flying your House-Fly Unlimited .....	9
Landing your House-Fly Unlimited.....	9
Flight School .....	10
Repairing your House-Fly Unlimited .....	12
Parts List.....	13
Trouble Shooting.....	14
Limited Warranty.....	15



**Important! Before you begin, please read all safety precautions and warnings. Failure to comply with any of the following could lead to bodily harm or injury. The Megatech House-Fly Unlimited is not intended for those under 14 years of age without proper adult supervision.**

## **SAFETY PRECAUTIONS**

### **TRANSMITTER SAFETY**

This device complies with part 15 of FCC rules.

Operation 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.
- Before you begin to fly make sure no one in the area is on the same frequency. Do not fly your House-Fly Unlimited if other radio control devices are being operated on the same frequency.
  - Since your model is controlled by a radio link it is very important to always keep fresh alkaline batteries in the transmitter.

### **SAFETY GUIDELINES**

- You alone are responsible for operating your model in a safe manner. When flying, you are responsible for your own safety and the safety of others around you. Follow these basic safety guidelines at all times.
- The spinning upper main rotor and lower main rotor on this helicopter can be dangerous!
- When operating/flying, always be aware of the spinning rotors. Be careful not to let them come close to your body, other people or loose clothing. Keep your hands, fingers and any article of clothing away from the rotors.
- Always fly your House-Fly Unlimited helicopter in a spacious area, free from furniture and other obstructions.
- Your helicopter is designed to be flown indoors. Only fly it outside when there is absolutely no wind. Even mild breezes will make it difficult, if not impossible to control your helicopter properly.
- Keep spectators behind you when flying.
- Never use solvents or liquid cleaners to clean this model. Doing so may damage the unit or electronics. Only use a dry, soft cloth for cleaning.

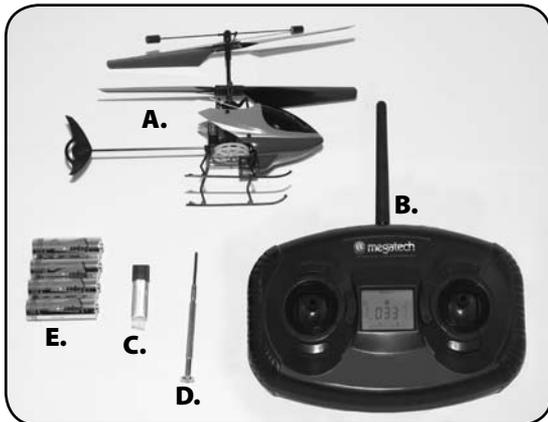
### **RECHARGEABLE BATTERY WARNINGS AND PRECAUTIONS**

- ALLOW TO COOL FOR 10-15 MINUTES AFTER EACH FLIGHT BEFORE ATTEMPTING TO RECHARGE
- Never use a charger that is not designed specifically for a LiPo Battery. This can result in a fire.
- The LiPo (Lithium Polymer) battery pack included with your House-Fly Unlimited Helicopter provides superior performance, but has specific charging requirement different from other battery types such as NiCd, NiMH & other rechargeable batteries. Improper handling of the LiPo batteries could result in the battery overheating, so please follow these warnings and instructions.
- Always remove batteries from your transmitter when you finish flying for the day. Do not store batteries inside the transmitter.

## PACKAGE CONTENTS

First make sure the contents of your package are complete:

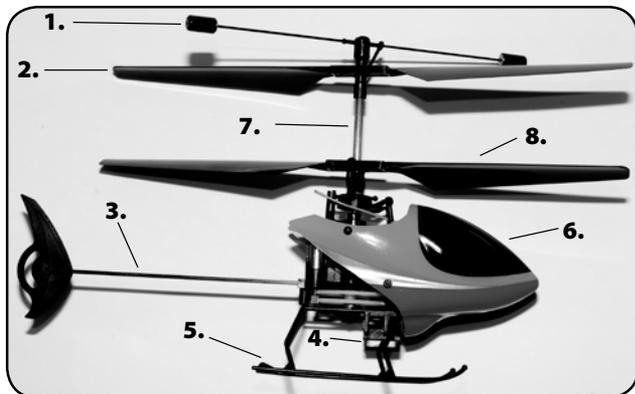
- A. House-Fly Unlimited
- B. Transmitter
- C. LiPo Battery Pack
- D. Screwdriver
- E. 4 "AA" Alkaline Batteries



## GETTING ACQUAINTED WITH YOUR HELICOPTER

### House-Fly Unlimited Helicopter

- 1) Flybar
- 2) Upper Rotor Blades
- 3) Tail Boom
- 4) LiPo Battery Compartment
- 5) Landing Skid
- 6) Cabin
- 7) Main Shaft
- 8) Lower Rotor Blades



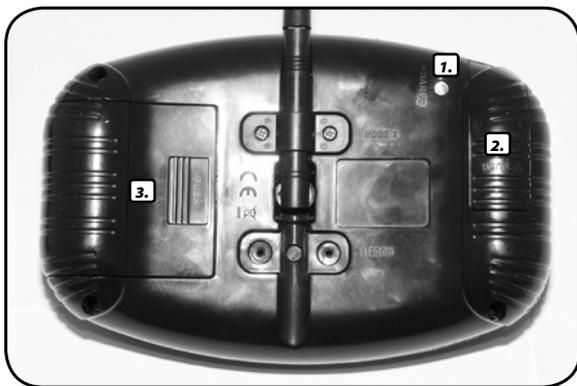
### Transmitter Front

- 1) Antenna Mast
- 2) Throttle/Yaw Control
- 3) Throttle Trim
- 4) Yaw Trim
- 5) Pitch/Roll Control
- 6) Pitch Trim
- 7) Roll Trim
- 8) On/Off Switch



## **Transmitter Back**

- 1) Battery Charge Indicator
- 2) Charging Port
- 3) AA Battery Compartment



### **READ THIS SECTION BEFORE CHARGING YOUR BATTERY PACK FOR THE FIRST TIME!**

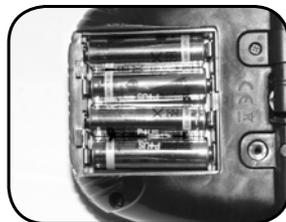
- **Never leave the battery plugged into the charger or the helicopter when it is not in use. Damage to the battery may occur.**
- **Keep the House-Fly Unlimited away from heat or fire. Never leave the model or transmitter in direct sunlight for any length of time.**
- **Never leave the model unattended while charging.**

## **INSTALLING THE BATTERIES**

### **Transmitter Batteries**

- Open the battery hatch on the back of the transmitter.
- Install 4 new AA alkaline batteries. We Recommend Megatech's Super Plus brand.
- Reattach the battery hatch.

**NOTE: Be sure the batteries are properly arranged according to the + and - symbols on the inside of the battery case or your controller will not function.**



### **Charging your House-Fly Unlimited**

The House-Fly Unlimited features an automatic peak-sensing charger and LiPo (Lithium Polymer) battery that must be charged before each flight. The LiPo battery features a built-in safety circuit that protects it against accidental overcharging.

- 1) Insert the LiPo Battery into the charging port on the back of the transmitter.
- 2) Now turn on the transmitter and the (Green) LED will illuminate.
- 3) Once charge is complete the GREEN LED will turn off.
- 4) Insert the battery into port on the landing skid underneath the helicopter. A red light will begin to flash inside the helicopter.



***The transmitter is always the first thing ON and the last thing off. This is to prevent accidental rotor startup.***

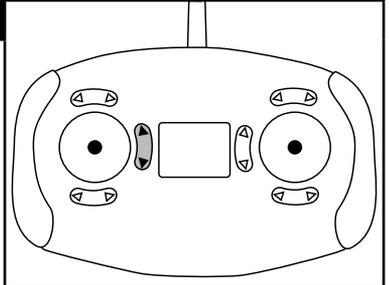
## TRANSMITTER ADJUSTMENTS

Before your first flight, make sure your trim levels are in the middle position.

**NOTE :** The helicopter has a built in throttle failsafe. The helicopter rotors will not turn ON during initial power up unless throttle is pushed up then down then up again to arm.

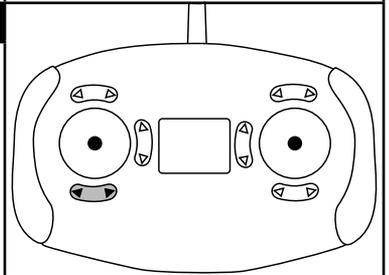
### Throttle Trim Adjustment

If your rotors start to spin without adding any throttle or if they do not spin when you add throttle, your throttle trim needs to be adjusted. If they start to spin without any throttle, click the throttle trim button down until they stop. If they do not spin, even when you add throttle, click the throttle trim button forward until the blades start spinning when the throttle is pushed forward.



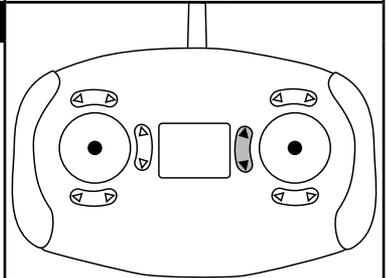
### Yaw Trim Adjustment

If while hovering, your House-Fly Unlimited tail begins to rotate when no yaw control input is being added, you will need to adjust the yaw trim. If it rotates to the left, click the yaw trim button to the right until it stops. If it rotates to the right, click the yaw trim button to the left until it stops.



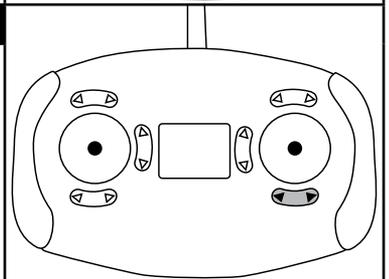
### Pitch Trim Adjustment

If, while hovering, your House-Fly Unlimited Helicopter begins to move forward or backward when no pitch control input is being added, you will need to adjust the forward/backward pitch trim button. If it moves forward, click the pitch trim button down until it stops. If it moves backward, click the pitch trim button up until it stops.



### Roll Trim Adjustment

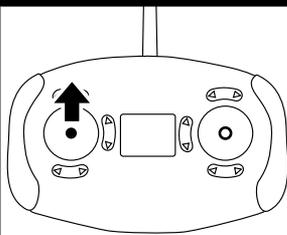
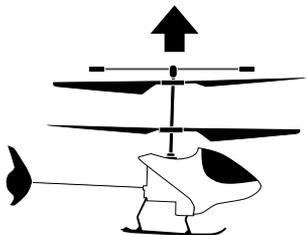
If your House-Fly Unlimited Helicopter begins to move left or right when no roll is being added, you will need to adjust the roll trim lever. If it moves left, click the roll trim button to the right until it stops. If it moves right, click the roll trim button to the left until it stops.



# FLYING BASICS

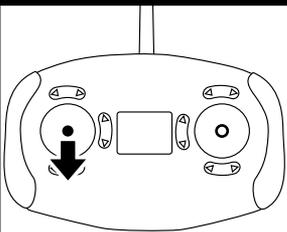
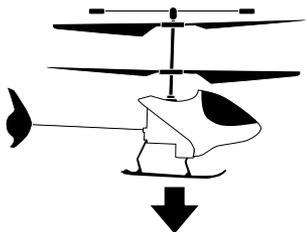
## The Controls

### LIFT THE HOUSE-FLY UNLIMITED



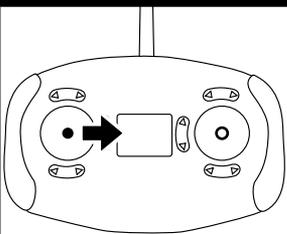
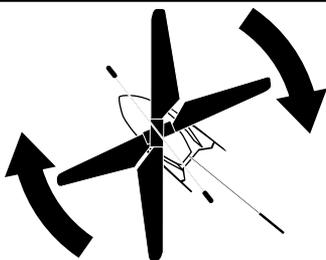
By pushing the throttle control stick forward the helicopter will lift.

### LOWER THE HOUSE-FLY UNLIMITED



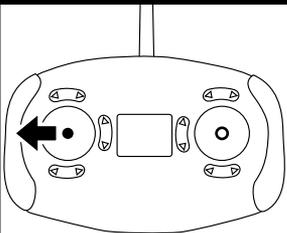
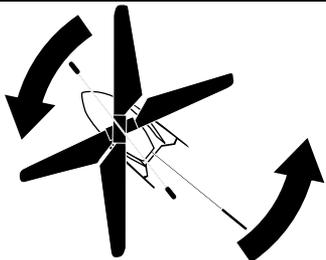
By pulling the throttle control stick back the helicopter will descend.

### ROTATE THE HOUSE-FLY UNLIMITED RIGHT



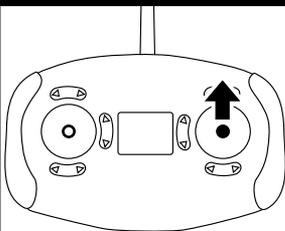
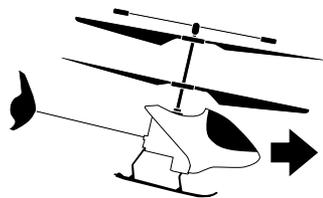
By pushing the yaw control stick right the helicopter will spin right.

### ROTATE THE HOUSE-FLY UNLIMITED LEFT



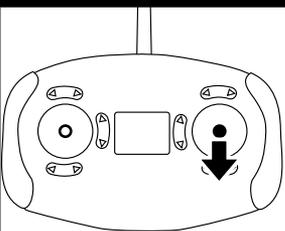
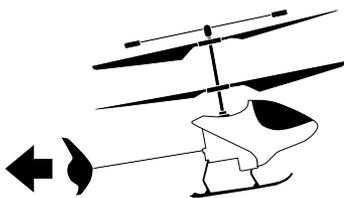
By pushing the yaw control stick left the helicopter will spin left.

### MOVE THE HOUSE-FLY UNLIMITED FORWARD



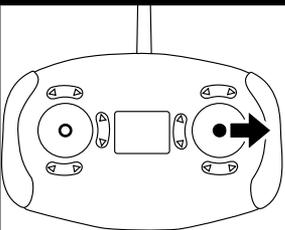
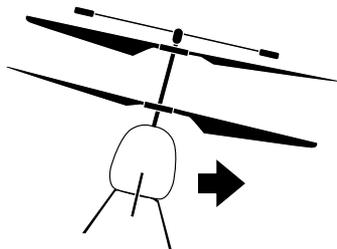
By pushing the pitch control stick forward the helicopter will move forward.

### MOVE THE HOUSE-FLY UNLIMITED BACKWARD



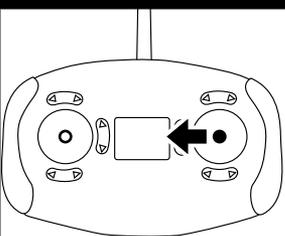
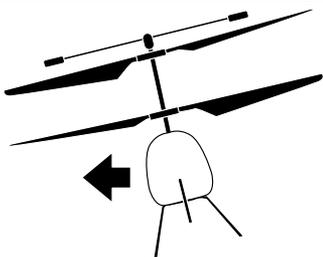
By pulling the pitch control stick back the helicopter will move backward.

### MOVE THE HOUSE-FLY UNLIMITED RIGHT



By pushing the roll control stick right the helicopter will move right.

### MOVE THE HOUSE-FLY UNLIMITED LEFT



By pushing the roll control stick left the helicopter will move left.

## IMPORTANT!



Prior to every flight make sure the throttle stick is in the fully down position and the throttle trim is centered.

## FLYING YOUR HOUSE-FLY UNLIMITED

- 1) Make sure the throttle stick is in the full down position and the throttle trim is in the middle position.
  - 2) Then switch on the radio control transmitter.
- NOTE: The screen in the middle of the transmitter will indicate battery life. The bars will disappear as the battery power is used. Never attempt to fly if the level gets to far down or not glowing at all.**
- 3) Install the Battery pack into the helicopter.
  - 4) Put your helicopter down on level ground with the Tail boom facing you.
  - 5) Step back at least 3 yards and face the helicopter.
  - 6) Double check to make sure that your flying area is clear of people, pets, furniture, trees, buildings, electric lines or other obstructions.
  - 7) Slowly move the throttle control stick backward then forward then back again until the rotors begin to spin. The rotors will spin for a couple of seconds to build up rotor speed before lifting off.
  - 8) As the helicopter lifts off, it may be shaky. Allow the Helicopter to stabilize before attempting to turn. Trying to turn while your helicopter is unbalanced will make it difficult to control and may lead to a crash.
  - 9) The further forward you move the throttle stick, the higher your helicopter will fly.
  - 10) Pushing your yaw stick to the left or right will cause your helicopter to rotate in place.
  - 11) Move your House-Fly Unlimited by using the directional control stick, also known as the roll stick. Press the stick forward to move forward, back to move backward, left to move left and right to move right. Be careful not to turn too much. Small stick movements should be all you need to move your House-Fly Unlimited in a stable flight pattern.

**NOTE: Any wind will make your House-Fly 2 Unlimited move, so be ready to correct.**

**TIP: Your House-Fly Unlimited will have an average flight time on a full charge of about 8-10 minutes. If throttle and control response seems sluggish, or you are required to input almost 3/4 to full throttle to hover, then this is an indication that you may need to recharge the battery.**

## LANDING YOUR HOUSE-FLY UNLIMITED

- 1) Find a level and preferably soft area to land. Although built to be incredibly durable, your House-Fly Unlimited may be damaged by harsh landings.
- 2) To land, slowly ease off on the throttle control until your House-Fly Unlimited starts to slowly descend. Do not ease off too much or the rotors will stop and your Helicopter may crash.

# FLIGHT SCHOOL

Just like riding a bike or playing baseball, learning to fly your House-Fly Unlimited starts with the basics. All flight maneuvers are made up of combinations of the basics.

## Throttle Practice

1) Gently push up the throttle control stick until the skids just leave the floor, and then slowly back off the throttle until your Helicopter lands.

**TIP: Do not make abrupt throttle movements. Practice this until you are comfortable and then try doing the same thing, but take your helicopter up about 10-20 inches.**

## Yaw Practice

- 1) Slowly raise the throttle control stick until your House-Fly Unlimited is about 6 inches in the air and hold it there.
- 2) Slowly move the yaw control stick to the left and see how your helicopter rotates to the left.
- 3) Slowly move the yaw control stick to the right and see how your helicopter rotates to the right.
- 4) Then repeat the procedure.

**NOTE: If at any time your House-Fly Unlimited shows signs of tipping or you become disoriented, quickly lower the throttle to off. Crashing straight down without power from this level is safer than crashing while the motors are still spinning the blades.**

## Pitch Practice

- 1) Slowly Raise the throttle control stick until your House-Fly Unlimited is about 6 inches in the air and hold it there.
- 2) Slowly move the Pitch control stick forward. Your helicopter should move forward. Release the stick and the helicopter should come to a stop.
- 3) Pull the stick back slowly and the helicopter should move backward.
- 4) Release the pitch control stick and it should come to a stop.

## Roll Practice

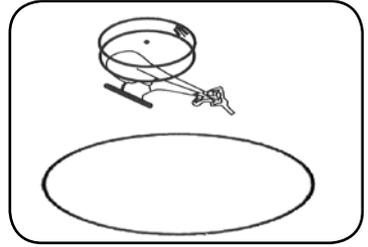
- 1) Push the roll control stick left or right and the helicopter will move left or right respectively. Remember, you only need small movements of the stick.
- 2) Release the stick and the helicopter should come to a stop.

**TIP: Sudden or extreme movements may cause your House-Fly Unlimited to become unstable. Should you feel this is about to happen, quickly lower the throttle! If at any time your House-Fly Unlimited shows signs of tipping or you become disoriented, quickly lower the throttle!**

## Hovering Practice

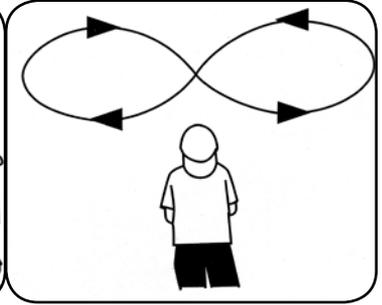
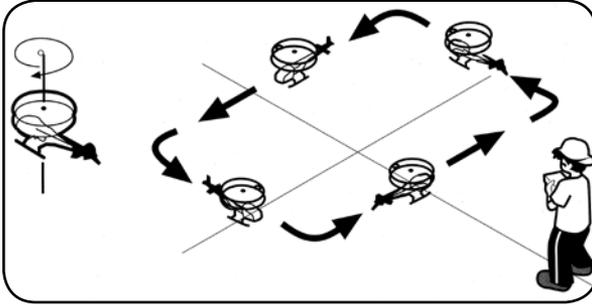
Now that you've learned some of the basics, draw a circle on the ground and practice moving or hovering within the circle. Next, repeat this exercise while standing beside the helicopter and then in front of it.

**TIP: If at any time your House-Fly Unlimited shows signs of tipping or you become disoriented, quickly lower the throttle.**



## Practice Patterns

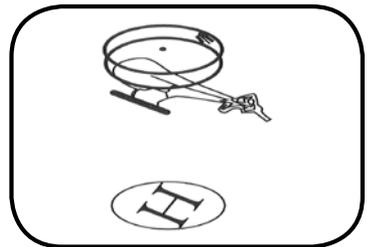
Once you've gotten hovering down, try flying in patterns. Begin with a square. Then move to a circle and then to a figure 8 pattern.



## Practice Landing

Mark a spot on the floor and practice landing on it. Once you are able to accurately land on that spot consistently you have completed your training!

**TIP: Practice makes perfect. We recommend you practice these things over and over until you become an expert flyer.**



## REPAIRING YOUR HOUSE-FLY UNLIMITED

If a blade becomes damaged, it can easily be replaced.

- 1) You will need to use the Phillips head screwdriver (Included) to loosen the screw and remove the damaged blade.
- 2) Slide the new blade into place and reattach the screw.

**NOTE: Always make sure the blade is not upside down and that you have the correct blade attached. The upper and lower blades have different shapes. If they are incorrectly installed your House-Fly Unlimited will not fly properly.**

## SWITCHING TRANSMITTER FROM MODE 2 TO MODE 1

**MODE 1** – Left control stick works forward motion and left and right. The right control stick works the Throttle up and down

**MODE 2** – Left control stick works the Throttle up and down. The right control stick forward motion and left and right.

- 1) Transmitter must be "OFF"
- 2) Remove the screws that hold the antenna in place and remove the plastic piece holding the antenna in place.
- 3) Pull the Antenna towards you and turn it counter clockwise and set it down to the Mode 1 position.
- 4) Reattach the plate and screws.
- 5) Turn the transmitter on and you will see that the screen is now in Mode 1.

## PARTS LIST

<b>PART #</b>	<b>DESCRIPTION</b>
MTC3979	1 Cell 3.7V 110mAh LiPO Battery Pack
MTC952101	Main Rotors Blade Set A & B (4)
MTC952102	Landing Gear W/ Battery Box
MTC952103	Tail Trust W/ Fin
MTC952104	Canopy W/ O rings (8)
MTC952105	Fly Bar
MTC952106	Ball linkage set (2)
MTC952107	Spur Gear Set (2)
MTC952108	High Performance Motor Set (2)
MTC952109	Rubber O rings (16)

## TROUBLE SHOOTING GUIDE

PROBLEM	CAUSE	SOLUTION
No power to radio control transmitter.	Power switch is in the "off" position.	Move the switch to the "on" position.
	Batteries are incorrectly installed.	Make sure the batteries are installed correctly.
	Batteries are exhausted.	Replace the batteries with fresh alkaline batteries.
No green light when charging.	Battery not inserted properly.	Make sure the battery pack is fully plugged into charging port.
	Transmitter batteries may be exhausted.	Replace the batteries with fresh alkaline batteries.
Helicopter is not under control.	Radio control transmitter is not turned on.	Slide the power switch to the "ON" position.
	Windy or bad weather.	Stop flying at once and try again on another day.
Helicopter rotors will not spin when initially turned on.	Trim tab below center.	Adjust throttle trim to the middle position
	Throttle control stick not in correct position.	Make sure throttle control stick pulled all the way back to the off position then pushed forward to arm.
Helicopter cannot rotate left or right.	Helicopter needs time to steady and balance itself.	Pause and let the helicopter steady itself and then try again. If it does not steady the wind may be too strong to fly.
	Battery is losing power.	Land immediately and recharge the battery.
Helicopter is not flying high enough.	Battery pack is not fully charged or is exhausted.	Recharge the battery pack
Helicopter crashed into the ground while landing.	You may have lowered the throttle too quickly or too far.	Try again and lower the throttle more slowly to allow the helicopter to slow and descend for a landing.
Helicopter wobbles during hovering or after cyclic input.	Blades may be loose.	Tighten the lower and upper main blades.
	Flybar not in place.	Check that the weights at the end of the flybar are locked in place.
	Chipped or broken blades.	Replace the damaged blades.

## **Limited Warranty**

Megatech® International guarantees this item to be free from defects for a period of 30 days from date of purchase. If any component of this product fails to function properly due to defects in materials or manufacturing process during this 30 day period, the manufacturer's obligations are limited and manufacturer can choose to either repair or replace the item.

This warranty is void if the product in question has been altered or repaired by anyone other than Megatech International or an authorized agent.

Under no circumstances will Megatech International or any of its representatives be held liable for injury to persons or property damage resulting from assembly or use of this product. Megatech is not liable if any outside radio frequencies interfere with the product's frequency causing loss of control. Megatech International will not be held liable for any injury to persons or property damage resulting from an out-of-control model caused by use or misuse of the product. Megatech International expressly excludes any and all express warranties not specifically stated here and all implied warranties of merchantability and fitness for a particular purpose. There are no warranties which extend beyond the description of the warranties contained herein. Contact the Megatech International Service Department before returning any item that is defective according to the limitations listed above. Please be sure to pack the returned item(s) carefully. The customer must return the product along with proof of purchase, a letter describing the problem and the customer's address and telephone number. At this point in time we will either repair the defective part or replace it and return it to the customer. Return shipping and handling in the 48 contiguous states is \$14.99. Shipping outside of the 48 states will be quoted by location.

This warranty does not cover any damage caused by use, misuse, alteration, accident, or neglect, nor does it cover normal wear and tear of the product. Product returned to us which falls under this category will be submitted to our service department for repair. We reserve the right to charge any service and parts fees incurred when repairing the item.

Megatech® International

8300 Tonnelle Avenue  
North Bergen, NJ 07047  
(201) 662-8500  
www.megatech.com  
eMail: support@megatech.com



Megatech® International  
8300 Tonnelle Avenue  
North Bergen, NJ 07047  
(201) 662-8500  
[www.megatech.com](http://www.megatech.com)  
Email: [support@megatech.com](mailto:support@megatech.com)