



# MICRO-FLY™

## *Flight Manual*



[www.megatech.com](http://www.megatech.com)

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Rev. 20070227

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 Customer Service Department at:**

**(888) MEGA-911 or send an email to:**

***info@megatech.com***

**9:30am - 5:30pm, EST Monday through Friday (except holidays)**

Technical assistance is also available on the web at [www.megatech.com](http://www.megatech.com)  
Or, by email to [support@megatech.com](mailto:support@megatech.com)

Congratulations! You have just purchased Megatech's Micro-Fly the most stable, ready-to-fly helicopter ever offered—period! The precision synchronization of its CBR-Drive™ (Contra Balanced Rotational Drive), keeps the twin rotors rotating in exact harmony. Accordingly, the Micro-Fly performs rock-steady hovering right out of the box. Also adding to Micro-Fly's fantastically easy-going flying characteristics is centrifugal stabilization offered by the weighted fly-bar; a feature normally found on more expensive model helicopters.

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

**TABLE OF CONTENTS**

Safety Precautions.....	3
Package Contents.....	4
Getting Acquainted with your Micro-Fly .....	4
Installing the Transmitter Batteries .....	5
Charging your Micro-Fly .....	5
Flying your Micro-Fly .....	6
Flight Selector Switch .....	7
Troubleshooting .....	8
Parts List.....	8
Notes.....	9
Warranty .....	10



**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 Micro-Fly is not intended for those under 12 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, look at the frequency sticker on the back of your transmitter and make sure no one in the area is on the same frequency. Do not fly your Micro-Fly 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 rotor blades on this aircraft can be very dangerous! When operating/flying, always be aware of the spinning rotors. Do NOT let them come close to your body, other people and loose objects such as clothing or jewelry.
- Always fly your helicopter in a wide-open room. Make sure that the area is free from obstructions. Do not fly around people who are unaware that you are flying a model helicopter, and never fly over people's heads.
- Do not attempt to disassemble any of the model's components or allow them to get wet or electrical damage may occur.
- Never fly your model from roadways or after dark.
- 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.
- Do NOT hold the Micro-Fly when launching.

### RECHARGEABLE BATTERY WARNINGS AND PRECAUTIONS

- ALLOW MICRO-FLY TO COOL FOR 10-15 MINUTES AFTER EACH FLIGHT BEFORE ATTEMPTING TO RECHARGE
- Never use anything but the charging system in the transmitter to charge the Micro-Fly
- Never leave helicopter unattended while charging.
- Always remove batteries from your transmitter when you finished flying for the day. Do not store batteries inside the transmitter.



**Nickel-metal hydride batteries must be disposed of properly. For current regulations in your area and proper disposal sites please call 1-800-822-8837 or visit [www.rbrc.org](http://www.rbrc.org)**

## PACKAGE CONTENTS

Before getting started you will need:

- 8 "AA" Alkaline batteries (sold separately)

First make sure the contents of your package are complete:

- A. Micro-Fly
- B. Charging Cord
- C. R/C Transmitter



## GETTING ACQUAINTED WITH YOUR MICRO-FLY

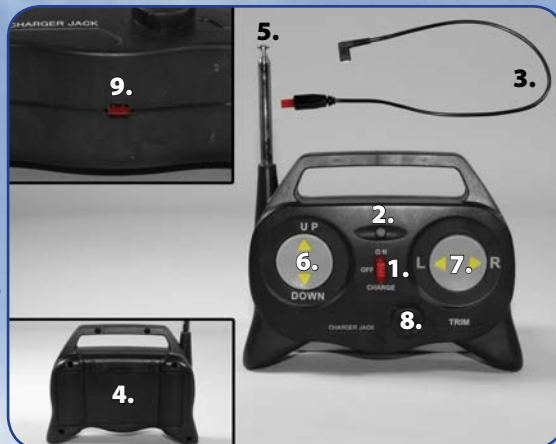
### **Micro-Fly Helicopter**

- 1) Fuselage
- 2) Main Rotors
- 3) Landing Skids
- 4) Charging Port
- 5) Charging/On/Off Switch
- 6) Power Indicator Light
- 7) Flight Selector



### **Transmitter**

- 1) On/Off & charge switch
- 2) Charging Status LED
- 3) Charger Link Cord
- 4) Battery Compartment
- 5) Antenna
- 6) Throttle Control (up & down)
- 7) Directional Control (left & right)
- 8) Yaw trim adjustment
- 9) Charging output port



*NOTE: Keep the box and packaging to safely store your Micro-Fly between flying sessions. Proper storage will prevent the rotors from warping and help maintain flight performance.*

**ALSO: To make sure your antenna does not get caught in the blades during flight, loop it around the skids of helicopter.**

## INSTALLING THE TRANSMITTER BATTERIES

- Using your fingers, rotate the two battery compartment cover retaining tabs 90-degrees until they are in the horizontal position. You'll have to lift the tabs slightly to move them off of their retaining posts.
- Remove the battery compartment cover
- Paying close attention to each battery's polarity (+ and -) use the diagrams cast onto the battery compartment back wall to install them correctly. Install 8 "AA"-size alkaline batteries.



**NOTE: If your batteries are not installed properly the transmitter will not function, and could become damaged.**

- Use 8 NEW alkaline batteries. We recommend Megatech's Super Plus brand.
- Replace the battery compartment cover and rotate the retaining tabs 90-degrees or until the tabs are in the vertical position. Again, you'll hear a "snap" indicating the tabs are in the most secure position.

## CHARGING YOUR MICRO-FLY

Your Micro-Fly features built-in Megatech extended run time high-performance rechargeable NiMH (Nickel-Metal Hydride) battery that must be charged before each flight (approximately 4-6 minutes charging time). NiMH technology indicates that battery performance improves as you cycle them (charging them up, and running them down). Optimum performance will be realized after the fourth or fifth cycle. Your transmitter also features a built-in charger that is equipped with an automatic timer. It will automatically shut off when the Micro-Fly's batteries are charged. The approximate charge time is 4-6 minutes. NOTE: Never charge for more than 10 minutes or leave unattended while charging. If you notice reduced run time, you may need to change the transmitter batteries.



### **To Charge:**

- 1) First make sure the power switch on your Micro-Fly model is in the "OFF" position. If the switch is NOT in the OFF position, your helicopter will not charge.
- 2) Plug the Charging Link Cord into the charge port on the bottom of the Micro Fly and make sure it is securely connected. (*Note: Wire faces forward.*)
- 3) Place Micro Fly next to the transmitter.
- 4) Now plug the other end of the Charging Link Cord into the charging port located on the bottom of the transmitter.
- 5) Now move the switch on the front of the transmitter to the "charge" position. The LED indicator light on the front of the transmitter will glow "green". This indicates that your Micro Fly is charging.

**NOTE: If red LED light does NOT illuminate "green", unplug the Micro-Fly and check the transmitter batteries.**

- 6) When the transmitter's LED light shuts off, your Micro-Fly is fully charged.
- 7) Disconnect Charger Link cord from the Micro-Fly

### **FLYING YOUR MICRO-FLY**

- 1) Make sure your transmitter has eight (8) fresh "AA" alkaline batteries installed in it and that your Micro-Fly has been fully charged.
- 2) Turn on the transmitter, then turn on the Micro-Fly by switching the on-off switch (located on the bottom of the model) to the "on" position.

**Note: the transmitter is always turned on first, and is the last to be turned off.**

- 3) Place the Micro-Fly on the ground approximately 10-feet in front of you.

**Important! DO NOT press either the UP/DDOWN or the LEFT/RIGHT button on the transmitter control unit until the Hopper-Fly is placed on the ground and 10-feet from your person and any onlookers.**

- 4) Press the "UP" on the UP/DOWN button at least once (twice if needed) to make your Micro-Fly lift off the ground. Your Micro-Fly is equipped with three hovering rotor speeds. The first two speeds are activated by pressing and releasing the "UP" side of the UP/DOWN button. The third speed is achieved by pressing and holding "UP". When you release the button the rotor speed will automatically return to the 2nd speed. To slow down or stop the rotor speed, you need to press the "DOWN" side of the UP/DOWN button.
- 5) To reach an altitude you desire you may have to push "UP" three times. When unit is at desired height, release "UP" and the Micro Fly should hover at the 2nd speed setting.
- 6) Turning your Micro-Fly is simply accomplished by pushing the appropriate yellow arrow on the right-hand button of the transmitter. To turn the Micro-Fly to the right, push the arrow on the right side of the button. To turn the model to the left, push the arrow on the left side of the button. The Micro-Fly will continue to turn as long as you are holding arrow down.
- 7) To adjust the Micro-Fly for neutral (no turning), "hands-off" hovering flight, use the

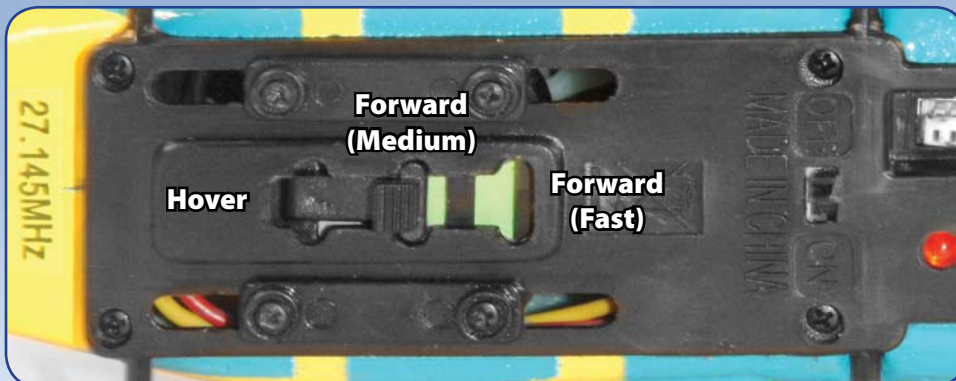
trim-knob to the lower left of the right-hand turning button. Turn this knob until the Micro-Fly does not move left or right during hands-off hovering.

- 8) Landing is accomplished by reducing rotor speed to the 1st rotor speed setting where upon the Micro-Fly should gently land on the ground.
- 9) Practice your first landings by only raising your Micro-Fly 12 to 24-inches off the ground so as not to damage the model on rough landings from higher altitudes. Once you feel confident, you may then take the Micro-Fly to greater altitude.
- 10) The Micro-Fly is designed for indoor use. However, if you wish to fly it outdoors, it must be flown in no wind conditions. If the Micro-Fly happens to get caught in an unexpected gust of wind, land it before it gets carried too far away in the breeze.



## FLIGHT SELECTOR FEATURE

Your Micro-Fly is equipped with a flight selector switch located on the bottom of the model. The back switch position is for the “hovering-mode”, the center switch position is for the “medium forward-flight-mode”, and the front switch position is for the “fast forward-flight-mode”. We suggest that until you are familiar with the flight characteristics of your Micro-Fly that you initially fly in “hovering-mode” while you are learning. Once you feel a bit confident, go ahead and give the other two modes a try. We think you’ll find “fast forward-flight-mode” a lot of fun, after you practice.



## TROUBLESHOOTING

If you are experiencing trouble, please follow these guidelines or call one of our MegaTechnicians at 1-888-634-2911. We will have you up and flying in no time!

### **Problem: No power to radio control transmitter or charger**

**Cause 1:** Batteries are incorrectly installed

**Solution 1:** Make sure batteries are installed in the correct direction

**Cause 2:** Batteries are exhausted

**Solution 2:** Replace the batteries with new alkaline batteries

### **Problem: No "green" light when charging**

**Cause 1:** Charge Cord is not properly plugged into the transmitter's charge port and/or the Micro Fly' charge port.

**Solution 1:** Check Charge Cord's connection at both ends.

**Cause 2:** Batteries are exhausted

**Solution 2:** Replace ALL 8 "AA"-Size batteries with NEW Megatech Super Plus Alkaline Batteries.

### **Problem: Helicopter is not flying high enough**

**Cause 1:** Transmitter/Charger battery life is nearly exhausted

**Solution 1:** Replaces ALL 8 "AA"-Size batteries with NEW Megatech Super Plus Alkaline Batteries.

**Cause 2:** Helicopter battery may beed to by cycled

**Solution 2:** Drain battery by holding unit safely and starting the power. When rotors stop spinning, let the unit cool 10 minutes, then recharge.

### **Problem: Micro-Fly crashed to the ground while landing**

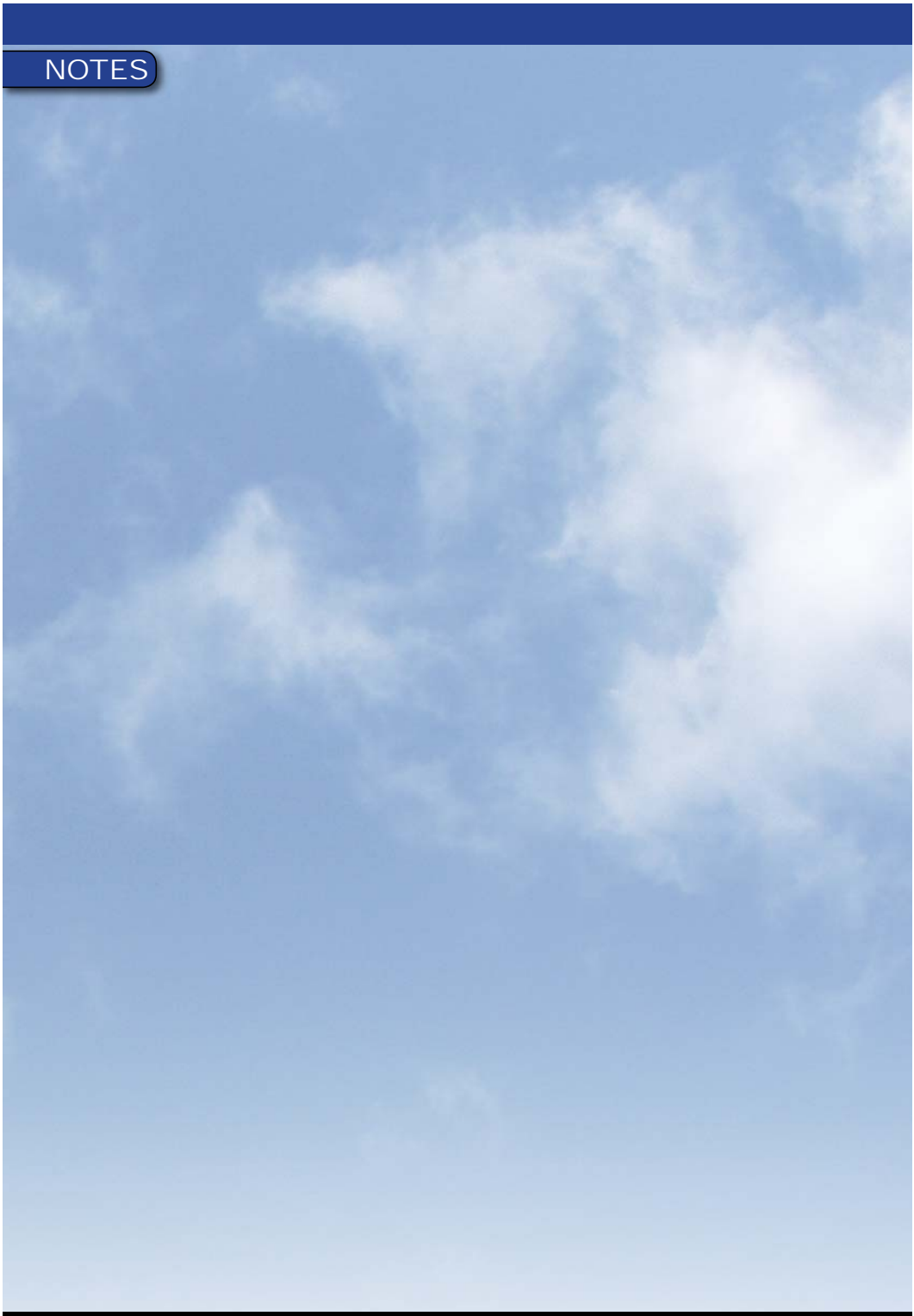
**Cause:** You may have reduced the three-step throttle too quickly or too much

**Solution:** Try again and release the button more gradually to allow the helicopter to slowly settle in for a landing.

## PARTS LIST

PART#	DESCRIPTION
MTC950801	Upper Rotor Blades
MTC950802	Lower Rotor Blades
MTC950803	Tail Rotor Blade
MTC950804	Battery Charger Lead
MTC950805	Transmitter Antenna

NOTES



## WARRANTY

### **MEGATECH® CRASH WARRANTY**

For a period of 1-year from the date of purchase, if your Micro-Fly is badly damaged in a crash, for whatever reason, Megatech will replace the entire helicopter (no questions asked) for a nominal fee of \$39.00 including regular ground shipping to the 48 continental states (AK, HI, & PR add \$10; for international orders the actual shipping charges will apply).

Follow these steps and a brand new Micro-Fly will be immediately shipped directly to you:

- 1) Pack the damaged item(s) carefully and place in a sturdy shipping carton
- 2) Return the product along with proof of purchase
- 3) Include a postal money order for the proper amount as indicated above.

### **MEGATECH® LIMITED WARRANTY**

Megatech® International guarantees this item to be free from defects for a period of 30 days from date of purchase. This warranty does not extend beyond the initial preflight testing. Carefully check parts and operation BEFORE your first flight. Damage incurred during flying, landing, crashing or modification is not covered under the warranty.

If you discover defects during the very first preflight testing during this 30-day period, please call our Support Team toll free at 1-888-634-2911 for Return Authorization. If in our opinion after inspecting the product, we determine it to be defective; we will repair or replace it at our discretion.

Contact the Megatech® International Service Department before returning any item that is defective according to the limitations listed above.

If you are issued return authorization and asked to send the item to our Service Department please follow these steps:

- 1) Remove the alkaline batteries from the transmitter.

- 2) Pack the returned item(s) carefully and place in a sturdy shipping carton
- 3) Return the product along with proof of purchase
- 4) Include a letter describing the problem
- 5) Include your address and telephone number
- 6) Include \$12.99 for return shipping & handling (AK, HI & PR add \$10; for international shipments actual shipping charges apply)

**Megatech International**  
**ATTN: Service Department**  
**8300 Tonnelle Avenue**  
**North Bergen, NJ 07047**  
**(201) 662-8500**

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. Products returned to us who fall 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.

Although this warranty does not cover any damage caused to the helicopter after the initial preflight testing, spare parts and service are available. Please see pg. 8 of this manual.

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 the 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 personal injury or property damage resulting from an out-of-control model caused by use or misuse of the product.

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



**Megatech<sup>®</sup> International**  
**8300 Tonnelle Avenue**  
**North Bergen, NJ 07047**  
**(201) 662-8500**