

HYDROFLY



INSTRUCTION MANUAL



megatech®

HIGH PERFORMANCE PRODUCTS

www.megatech.com

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

DO NOT RETURN THIS PRODUCT TO THE STORE OF PURCHASE

Call our Customer Service Department at:
(888) MEGA-911

or send an e-mail to: info@megatech.com
10:00am - 4:00pm, EST Monday through Friday (except holidays)

Technical assistance is also available on-line at
www.megatech.com
or by e-mail to questions@megatech.com

Congratulations. You have just purchased a radio controlled Hydro-Fly LASV (Land Air Sea Vehicle) that incorporates some of the most technically advanced electronics available. All of this technology combines to make the Hydro-Fly the wildest RC vehicle you've ever seen!

READ ENTIRE MANUAL FIRST BEFORE ATTEMPTING TO OPERATE

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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 Hydro-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.

SAFETY GUIDELINES

- You alone are responsible for operating your model in a safe manner. When operating, you are responsible for your own safety and the safety of others around you. Follow these basic safety guidelines at all times.
- When operating always be aware of the spinning propeller. Be careful not to let them come close to your person, others and/or loose clothing.
- Always operate your Hydro-fly in a wide-open area. You'll need at least two football fields worth of area that is free from obstructions such as buildings, electric power lines, trees, roads, other people and vehicles. Do not fly around people who are unaware that you are flying a radio control model, and never fly over people's heads.
- Do not operate your model if other models are being operated in the area on the same frequency.
- Do not attempt to disassemble any of the model's components or allow them to get wet. Electrical damage may occur.
- Never operate your model from roadways or after dark.
- Keep spectators behind you when operating.
- Before using, make sure you perform a range check to be sure you can maintain control at least 25-feet from transmitter to model with the transmitter antenna extended.
- Since your model is controlled by a radio link it is very important to always keep fresh alkaline batteries in the transmitter.
- 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 BATTERY TO COOL COMPLETELY BEFORE ATTEMPTING TO CHARGE. MAKE SURE BATTERY IS COMPLETELY DISCHARGED BEFORE ATTEMPTING TO CHARGE.
- Never have the vehicle engine running during charging process. This may cause overcharging and a possible fire.
- Never leave battery unattended while charging. As soon as the battery becomes warm, stop charging immediately.
- Never attempt to charge a battery that appears damaged.
- Never charge longer than 15-minutes.
- Never place a charging battery on your cars seats or console, but rather a flame & heat resistant material such as an oven mitt.

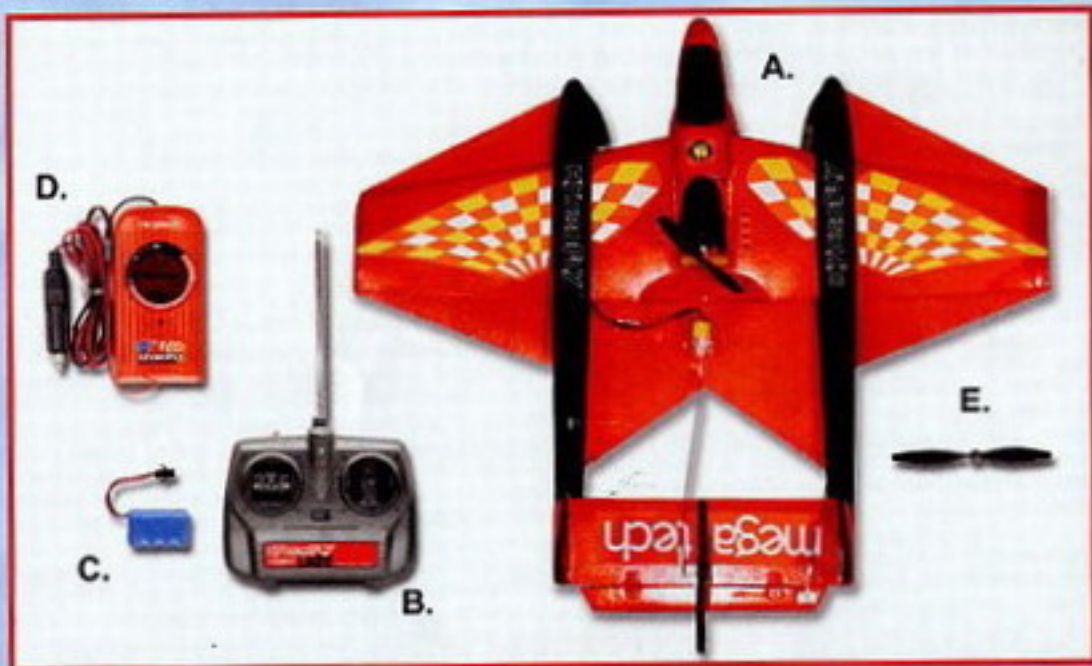


Nickel-metal hydride batteries must be disposed of properly. For current regulations in your area and proper disposal sites please call 1-800-822-8837 or visit www.rbc.org

Before getting started make sure you have:
8 'AA' Alkaline batteries (sold separately)

Use the following picture to get acquainted with the parts of your plane included in this package

- A) Hydro-Fly
- B) Transmitter
- C) Battery Pack
- D) Quick Charge
- E) Spare Prop



ASSEMBLY

PREPARING TRANSMITTER

Transmitter requires 8-'AA' Alkaline batteries
(sold separately)

- a) Remove the battery compartment cover located on the back of the transmitter by sliding it down.
- b) Insert 8 "AA" Alkaline batteries. Be sure to match the '+' and '-' polarity symbols in the transmitter with each battery.
- c) Replace battery hatch cover
- d) Turn the transmitter 'Power' switch to 'ON' position. The red and green LED lights will illuminate.



NOTE: If the LED does NOT illuminate, do NOT attempt to operate your Hydro-fly. Make sure you are using fresh alkaline batteries and check the batteries for correct polarity placement. If LED still fails, contact Megatech at 1-888-634-2911.

CHARGING ONBOARD BATTERY PACK

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MAKE SURE BATTERY IS COMPLETELY COOL AND DISCHARGED BEFORE ATTEMPTING TO CHARGE. FAILURE TO DO SO WILL CAUSE PERMANENT DAMAGE TO THE BATTERY AND POSSIBLE BODILY HARM

1. Remove battery from Hydro-fly. (Do NOT leave battery inside Hydrofly while charging)
2. Plug battery into charger. *Place charger and battery on the ground OUTSIDE your vehicle.*
3. Make sure car is not running and plug charger into vehicle cigarette lighter.
4. Rotate timer dial to the 10 minute mark. The LED will illuminate.

NOTE: If LED does NOT illuminate first check the battery and cigarette lighter connections. If it still does not illuminate call Megatech at 1-888-634-2911

5. Once the LED goes out, the battery will be warm to the touch and is completely charged. Disconnect at once.

CAUTION!!

Do not charge battery more than 10 minutes. Charging longer may damage the battery and reduce performance

CYCLING BATTERY PACK

For peak performance and optimum flight duration, it is important to cycle the rechargeable flight battery pack before flying.

- 1) Charge the battery pack according to manual
- 2) Securely hold the airplane with the nose facing away from you. Be sure it is as far away as possible from your person and any loose clothing or jewelry.
- 3) Have an assistant turn the transmitter to the 'ON' position.
- 4) Switch the plane to the 'ON' position.

NOTE: The Hydrofly is equipped with a "Motor-Safety" feature so the motor can not be accidentally turned on. Arm the motor by moving the left hand stick all the way down, then up - this will activate the throttle and the motor will run. The Hydrofly is equipped with a 4-step throttle. Each time you push the left stick up and release to neutral, it advances one step; from Off to Low to Medium to Medium-High to High. The motor power is lowered in the same fashion. Pull the left stick down and let it return to neutral. Each time you do this the power is reduced by one step; High to Medium-High to Medium to Low to Off.



- 5) Have your assistant arm the motor and then advance the motor to High and let the Hydrofly run until the battery runs out.
- 6) Allow battery to cool COMPLETELY
- 7) Recharge the battery

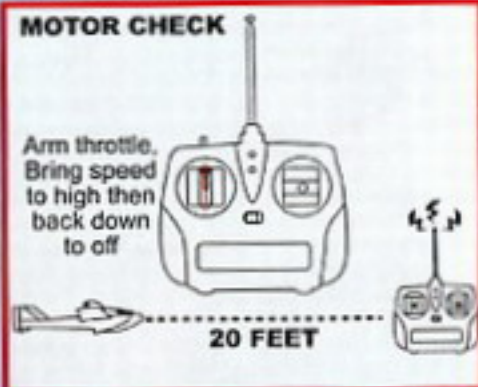
Important Tip: Always perform the motor-check and radio-range check with the help of a friend or parent. Doing so alone may cause the model to get away from you and cause damage.

RADIO-RANGE CHECK

- 1) Make sure both the airplane and transmitter are in the 'OFF' position and plug a charged battery into the airplane battery hatch.
- 2) Turn the switch on the transmitter to the 'ON' position and extend the antenna fully
- 3) Switch the power switch on the airplane to the 'ON' position.
Note: The transmitter is always the first thing on, and the last thing off.
- 4) Have a friend/parent hold the model with the nose pointing away from him/her and away from their person and loose clothing.
- 5) Walk 20-ft away from airplane.

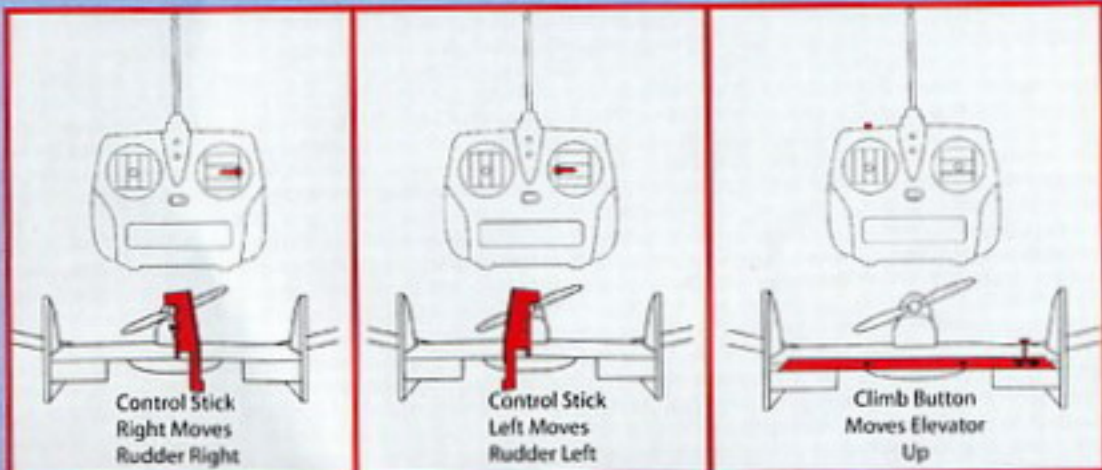
MOTOR CHECK

- While remaining 20-ft away, check the motor function by advancing the motor all the way to high throttle, then back down to off.

**RUDDER AND ELEVATOR CONTROL CHECK**

- Move the right-hand stick to the right—the rudder should move to the right
- Move the right-stick to the left—the rudder should move to the left.
- Press the vertical-climb button—the elevator will move up

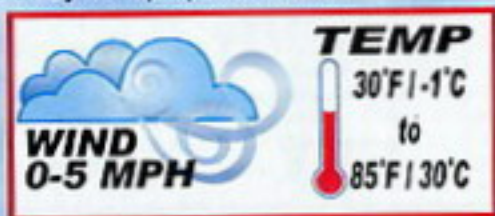
If your airplane does not respond from 20 feet away do NOT attempt to fly. Contact Megatech at 1-888-634-2911 for further assistance



If you are under the age of 12, be sure to fly your vehicle with adult supervision.

1) Choose a Flying Site & Weather Conditions

- Choose a large soft open area to fly in such as a football or soccer field. Do not fly in a street or parking lot.
- Never fly near cars, people, pets, power lines, trees, houses or buildings
- Be sure to keep your hands, eyes and face away from propeller blade
- Choose a day with little or no wind. Do not fly in wind greater than 5mph.
- Humidity and temperature must be comfortable (around 30F-85F degrees) so that the air is fairly dense.
- Your altitude should be less than 2,500-feet above sea level.



2) Pre-Flight Checklist

- Fully extend transmitter antenna
- Turn transmitter 'ON'
- Switch airplane 'ON'

REMEMBER: Your transmitter is always the first thing on and the last thing you shut off.

- Holding the plane away from you, move the right transmitter stick to ensure that the rudder moves left and right accordingly.

3) Launching Hydro-Fly

NOTE: The Hydrofly is equipped with a "Motor-Safety" feature so the motor can not be accidentally turned on. Arm the motor by moving the left hand stick all the way down, then up - this will activate the throttle and the motor will run. The Hydrofly is equipped with a 4-step throttle. Each time you push the left stick up and release to neutral, it advances one step; from Off to Low to Medium to Medium-High to High. The motor power is lowered in the same fashion. Pull the left stick down and let it return to neutral. Each time you do this the power is reduced by one step; High to Medium-High to Medium to Low to Off.

Hand Launching

For beginners it is recommended to hand launch your Hydro-Fly. Once your skills improve you can launch your Hydro-Fly from the land and water.

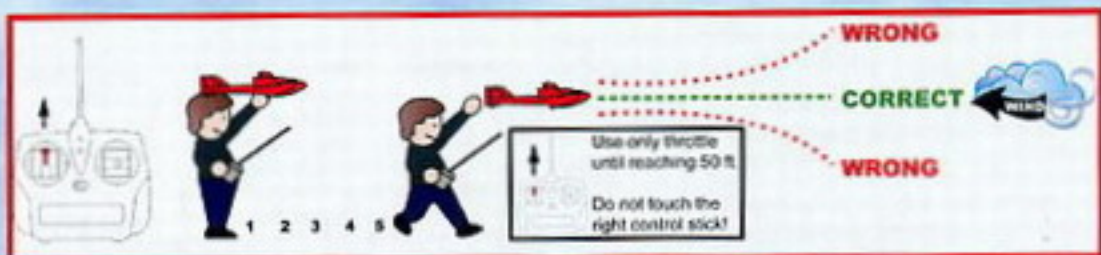
- Determine the direction the wind is blowing. Stand with the wind blowing into your face.
- Hold plane's fuselage directly under the wings
- Start with plane above your shoulders.
- Face into the wind, hold hydrofly above your shoulder pointing forward and step the throttle all the way to high so the propeller is spinning at full speed



- Using the horizon as a 0-degree point of reference, take about 5 steps and toss the plane at a 5 degree upward angle into the wind. Use about the same force it take to throw a dart at a dart board.
- Once you have let go of the plane continue to hold the left hand control stick up/forward.

DO NOT TOUCH THE RIGHT CONTROL STICK OR YOU WILL CRASH.

Allow the Hydro-Fly to reach sufficient altitude before attempting to turn (about 50 feet)



Ground Take Off

- First determine the direction the wind is blowing. Position the Hydro-Fly on a smooth long surface facing into the wind
- The transmitter has a safety arming feature. First turn transmitter on, then plug in battery. To activate transmitter pull the left hand stick all the way down then let it return to starting position.
- Step the throttle all the way to high so the propeller is spinning at full speed
- Your Hydro-Fly will elevate into the air. If your Hydro-Fly does NOT elevate within 10 seconds, push the red launch button located on the upper left of your transmitter
- Press and hold launch button until Hydro-Fly is elevated, then release button

Water Take Off

- First determine the direction the wind is blowing. Position the Hydro-Fly in calm water facing into the wind
- The transmitter has a safety arming feature. First turn transmitter on, then plug in battery. To activate transmitter pull the left hand stick all the way down then let it return to starting position.
- step the throttle all the way to high so the propeller is spinning at full speed
- After running at full speed on the water for 10 seconds, push the red launch button located on the upper left of your transmitter
- Press and hold launch button until Hydro-Fly is elevated, then release button

4) Turning

- Once your Hydro-Fly has reached 75 feet above the ground you are ready to begin turning. You want to keep the model within 100 feet of you at all times.

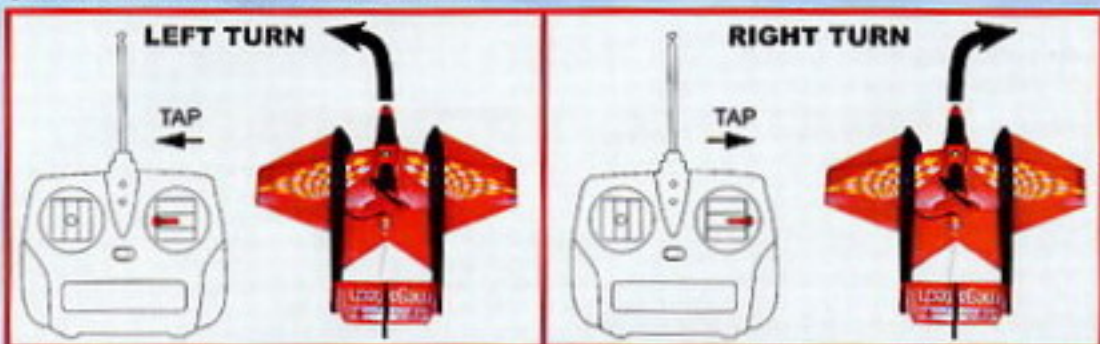
Beginners: should start with large oval circle patterns while learning.

Left Turn: Keep the throttle set at "medium" or "medium-high". Gently pulse the right hand stick to the LEFT 1-2 times, allowing it to return to the center.

Right Turn: Keep the throttle set at "medium" or "medium-high". Gently pulse the right hand stick to the RIGHT 1-2 times, allowing it to return to the center.

WARNING: Holding right control stick to the right or left will cause the Hydro-Fly to turn too tightly possibly entering a spiral and crash.

- Flying toward you can be very tricky because the model will appear to be turning in the wrong direction. To regain orientation, imagine you are sitting in the pilot seat of the Hydro-Fly.
- If the model gains too much altitude, try reducing the throttle and gliding until you reach a more comfortable altitude.



5) Landing

When you notice the nose of the Hydro-Fly drop slightly or it is unable to climb, it is time to land. You will still have enough power over the controls to set up for a landing.

- Always land with the nose going into the wind
- Set your model up to face into the wind by making very gentle shallow turns.

IMPORTANT: DO NOT ATTEMPT TO MAKE ANY TURNS WHEN THE MODEL IS UNDER 25 FEET FROM THE GROUND, THIS WILL RESULT IN A CRASH.

- Once you are on the final landing approach and your model is facing into the wind, reduce your throttle to "low" and gently let the model glide to the ground. Only use minor controls to keep the wingtips level until the model touches down.
- If the unit crashes or lands incorrectly, immediately shut down the motor by moving the throttle (left) stick down repeatedly.



- Keep the model flying out in front of you and don't let it pass over head if possible. This can be very disorienting.
- Learn to fly oval circuits out in front of you in both directions while maintaining altitude—then, advance to figure-8s.
- As your flying skill improves, you will recognize air thermals (rising pockets of air) that will greatly increase your flight time
- Always use fresh alkaline batteries in your transmitter to ensure solid radio signal.
- After each flight, make sure the airplane is turned 'OFF' and examine inside and out for any trapped debris or water
- Wearing sunglasses will help you be able to locate the airplane at all times
- Always make sure your battery is completely charged before attempting to fly
- Always launch the Hydro-Fly into the wind
- Always attempt to take off within the first minute of operation to assure sufficient battery power
- Do not attempt any turns until the Hydro-Fly is at least 75 feet into the air
- R/C aircraft are extremely sensitive to weight. Do NOT add additional items to the aircraft such as decals or stickers.

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!

DIVES

- Adjust Rudder Placement

NO POWER/SHORT FLIGHT DURATION

- Cycle battery

PROPELLER STUCK IN BODY OF AIRCRAFT

- Turn off unit & unplug battery, then remove & replace propeller

INTERNAL COMPONENTS ARE WET

- Unplug the battery immediately and let dry for 24 hours before attempting to operate

Examine your propeller after each flight, if it should need replacement, simply remove the old one, and slide the new one onto the prop shaft.

If your wing surfaces become cracked or torn, you can easily repair them with clear packing tape or Foam Safe Adhesive.

PART #	DESCRIPTION
MTC950701	PROPELLER (3)
MTC950702	MOTOR WITH HATCH & SCREWS
MTC950703	TX ANTENNA & TX BATTERY COVER
MTC950704	BATTERY HATCH & SCREW
MTC950705	SERVO
MTC950706	RX/ESC IN WATERPROOF CASE
MTC950707	PROPELLER SHAFT HOLDER
MTC950708	REPLACEMENT BOTTOM SKIDS
MTC950709	RUDDER & VERTICAL FIN W/ HORN
MTC950710	REPAIR KIT - GLUE, FOAM, TAPE
MTC950711	REPLACEMENT BODY - NO MOTOR OR PROP
MTC3972	BATTERY PACK
MTC38040	12V DC CHARGER

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Megatech® International
8300 Tonelle Avenue
North Bergen, NJ 07047
(201) 662-2800

www.megatech.com

WARRANTY

Megatech® Crash Warranty

For a period of 1-year from the date of purchase, if your HydroFly is badly damaged in a crash, for whatever reason, Megatech will replace the aircraft (just the aircraft itself), no questions asked, for a nominal fee of \$49.99 including regular ground shipping to the 48 continental states (AK, HI, & PR add \$5; for international orders the actual shipping charges will apply).

Follow these steps and a brand new HydroFly will be immediately shipped directly to you:

- Pack the damaged aircraft (aircraft only) carefully and place in a sturdy shipping carton
- Return the product along with proof of purchase
- 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:

- Remove the alkaline battery from the transmitter.
- Pack the returned item(s) carefully and place in a sturdy shipping carton
- Return the product along with proof of purchase
- Include a letter describing the problem
- Include your address and telephone number
- 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) 662-2800**

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.

Although this warranty does not cover and damage caused to the airplane after the initial preflight testing, spare parts and service are available. Please see pg. 6 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.