

MERITRC

SUPER CUB

INSTRUCTION MANUAL



Specifications:

Wingspan: 13.7in.(348mm)

Total length: 9.3in.(236mm)

Fuselage length: 8in.(203mm)

Weigh: 12g



IMPORTANT!
Radio controlled model
NOT A TOY!

This high performance model must be assembled and operated according to the instructions.

May cause serious injury to persons or property if not used responsibly.
Unsuitable for children under 14 years.

 **WARNINGS**

FOR YOUR SAFETY PLEASE READ AND UNDERSTAND THESE WARNINGS

GENERAL WARNINGS

- Do not fly your aircraft if another model is on the same frequency as yours.
- Never fly your aircraft from the street or at night. Always fly in an open area free of obstructions.
- When flying, make sure any spectators are behind you.
- Always be conscious of the spinning propeller. Be careful not to allow loose clothing to be drawn into the propeller.
- Because your aircraft is operated by radio control, It is important to make sure you are always using fresh and/or fully charged batteries. Never allow the batteries to run low, or you could lose control of the aircraft.
- Never attempt to disassemble any of the aircraft's components, especially the electronics.
- Do not allow any of the electrical components to get wet, or electrical damage may occur.
- You should complete a successful range check of your radio equipment prior to each new day of flying, or prior to the first flight of a new or repaired aircraft.
- If your aircraft gets dirty, do not use any solvents to clean it. Solvents will damage the foam and plastic. Use a dry cloth to clean any dirt from outside of the aircraft.
- This product includes small and sharp edged parts. Always assemble and keep this product out of children's reach.
- Do not fly your airplane on days with strong winds or side winds.
- When not using the model, always switch off the receiver and transmitter. Also, disconnect and remove batteries from the model and the transmitter as batteries may overheat or leak causing damage.
- Do not store this model in a high-temperature/humidity area or in direct sunlight.

RADIO CONTROL SYSTEM WARNINGS

- Always turn on your transmitter before turning on the aircraft and always turn off the aircraft before turning off your transmitter.
- Always unplug the battery when not flying the aircraft.
- Never cut the receiver antenna shorter, or you could lose control of the aircraft during flight.
- When flying the aircraft, make sure your transmitter antenna is completely extended.
- Never attempt to disassemble or modify any of the radio control system components.

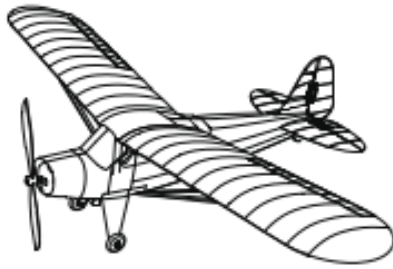
LITHIUM POLYMER(LI-PO) BATTERY WARNINGS-YOU MUST READ THIS BEFORE CHARGING THE BATTERY

- All instructions, warnings, and cautions must be followed at all times. Failure to do so can lead to serious injury or fire. Do NOT use this product before reading and understanding all directions and warnings.
- This product may explode or catch fire. Serious injury, loss of property, fire and death can result from misuse of this product.
- Do NOT use or charge if the battery is hot.
- Do NOT leave in direct sunlight or in a hot car or storage area. Do NOT get wet or expose to moisture.
- Do NOT overcharge. Maximum voltage for each battery must be followed.
- Do NOT short-circuit the battery. Check polarity, then connect battery to charger.
- ONLY discharge and charge the battery outdoors or in a fire safe container.
- Do NOT leave the battery connected when not in use.
- Do NOT operate or charge unattended.
- Do NOT use the battery if you do not understand the warnings and proper use of the battery.
- Always let the battery cool and 'rest' between uses and charging. Do NOT charge inside your car or inside your house.
- We recommend the use of a fire safe container when charging or storing.
- Inspect the battery before each use for swelling or other malformation. If the battery has ballooned, it MUST be discarded.
- Do NOT over-discharge or exceed maximum discharge.
- Do NOT poke, bend or damage the battery. The outer casing is soft and can be damaged.
- The battery must never exceed 71o Celsius (160o Fahrenheit) for any reason.

Radio control models are not toys, serious injury to persons or damage to property can result in If not used in a responsible manner

Read all instructions carefully prior to assembling and before flying this model. Seek advice should any information be unclear. You assume all risk and responsibility when using this model

Items Included



3.7V-35mAh Lithium Polymer Battery



Propeller



MERIT 2.4G Radio System



Required Additional

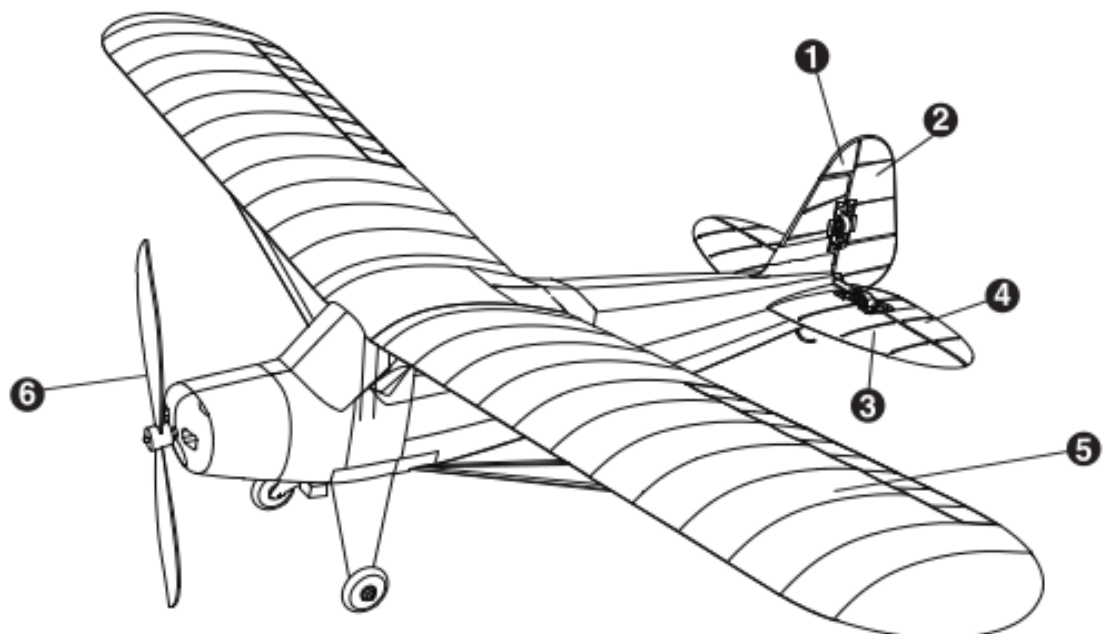
AA Alkaline Batteries x 4



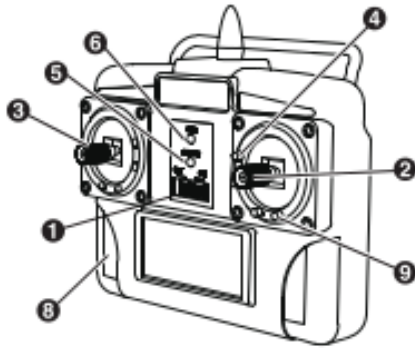
X4

Contents List

- ❶ Tail
- ❷ Rudder
- ❸ Tail Wing
- ❹ Elevator
- ❺ Main Wing
- ❻ Propeller



Transmitter



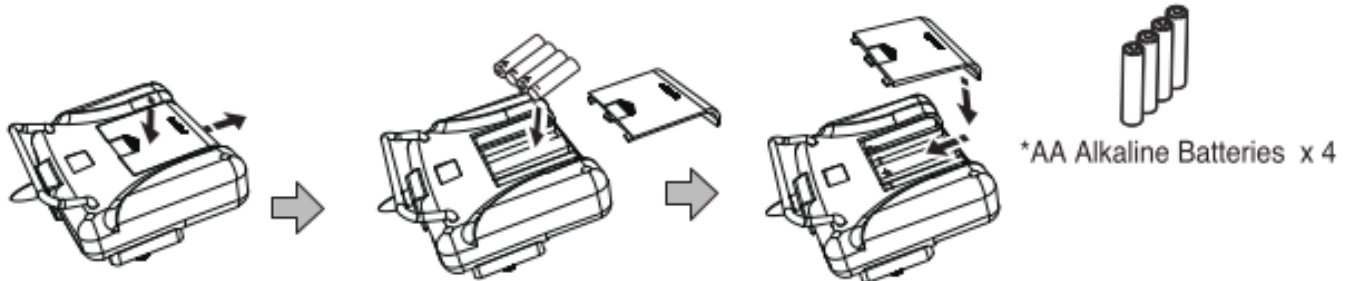
- | | |
|---|---|
| <p>1 Power Switch</p> <p>2 Rudder Stick (Left/Right)
Controls the left / right direction of the airplane's nose</p> <p>Elevator Stick (Up/Down)
Controls plane's upwards/downwards movement</p> <p>3 Throttle Stick (Up/Down)
Controls propeller speed</p> <p>4 Elevator Trim (Up/Down)
Adjust up/down so plane flies horizontal</p> | <p>5 Battery Level Indicator</p> <p>6 Charge Lamp</p> <p>7 Battery Cover</p> <p>8 Charger Terminal Cover</p> <p>9 Rudder Trim (Left/Right)
Adjust left/right so plane flies straight</p> |
|---|---|

Before Operating

Batteries for Transmitter

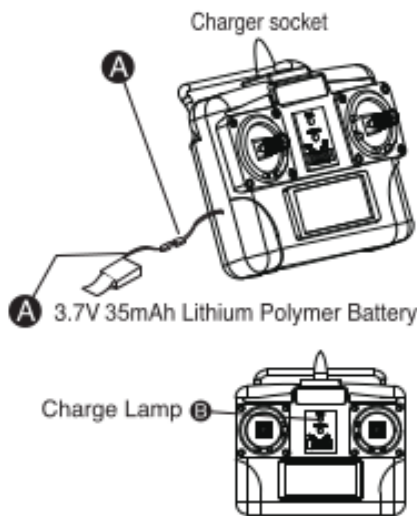
Battery Cover

Battery Polarity Markings



Charging Battery

	<p>Read Page 2 carefully and charge battery accordingly.</p> <p>Use only the battery charger specified.</p> <p>Do not attempt to charge a damaged battery. This may cause fire or serious damage.</p> <p>For safety reasons, batteries with a high voltage cannot be recharged. Run down the battery completely and then recharge.</p>	
--	--	--



- 1 **A** Connect the 3.7V 35 mAh Lithium Polymer battery to charge socket.
- 2 **B** Charge lamp lights up and quick charge commences. (Fully discharged battery takes about 40 minutes to charge. Charging time can vary according to battery type).
- 3 **B** After charge lamp goes on, then off, charging is complete.

- ▶ When the Transmitter cells are empty, the battery will not be charged. Change to new dry cells before charging.
- ▶ Battery can be charged whether the transmitter power is switched ON or OFF.

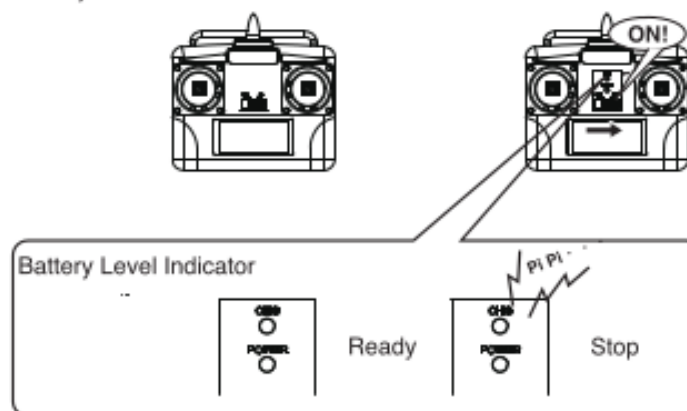
Turning Power ON

1 Switch Transmitter ON

Always turn the transmitter's power switch ON first!

Ensure throttle stick is in all the way down position.
A spinning propeller can be dangerous.

- 1 Move throttle stick to all the way down.
- 2 Switch power ON
- 3 Green lamp lights up

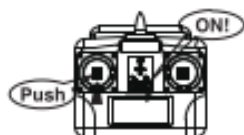


- ▶ Unless the throttle stick is not moved all the way to the bottom, the motor will not operate.

2 Registering with the Airplane

- ▶ The first time you use this model, you will need to register the airplane to the transmitter.
- ▶ Registering is already completed by factory setting.

- 1 Turn the transmitter power on while pressing in on the left stick. (You will hear a 'click' when you press on the end of the stick.)



- 2 The transmitter will beeping and LED flashing for 20 seconds. Plug the battery into the receiver unit, while the transmitter is beeping.



- 3 When beeping stops or the LED on the receiver unit is steady light, binding is complete.



- 4 When the binding procedure is successful, the LED on the receiver will stay solid red when both the transmitter and receiver are turned on.

3 Reversing Flight Controls

Reversing the elevator and rudder can be accomplished by following the steps below.

- 1 Push down on the digital trim button for the surface you would like to reverse.
 - a. Top elevator trim button—elevator reverse
 - b. Right rudder trim button—rudder reverse

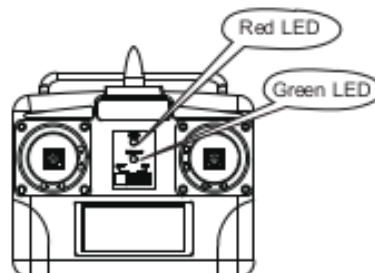


- 2 Pressing the desired digital trim button down and turn the transmitter on.
- 3 Hold the digital trim button down for 3 seconds until tones are heard, confirming the selection.
- 4 Connect the battery and complete the flight control test, confirming that all surfaces are operating in the correct direction.

4 LED Display

TX LED :

LED		State
Green	Red	State
ON	---	Power on
Rapid Flash	---	Battery low
Slow Flash	---	Bind mode
---	ON	Charge on
---	OFF	Charge completed or Charge off



RX LED :

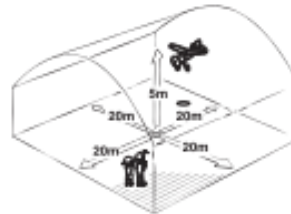
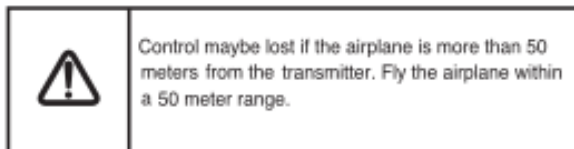
Red LED	State
ON	Receiving signals
OFF	Indicates that the power is off or no signal reception
Slow Flash	The throttle stick is up in the 'ON' position
Rapid Flash	Battery low

CHOOSING YOUR FLYING FIELD

- 1 ➤ The flying field you choose should be a large, open field with grass. There should not be any vehicles, buildings, power lines, trees, large rocks or anything else that your model can crash into.



- 2 ➤ Size of hall etc. should be as per diagram on right. (Be sure to obtain appropriate permission)



CHOOSING A DAY TO FLY

- Calm weather with either no wind or wind speed of 1~2m is suitable for flying.



PRE-FLIGHT CHECK

- 1 ➤ Check for any bends or damaged parts on main wing, fuselage or tail wing.



- 4 ➤ In case motor starts rotating accidentally, have an assistant hold the rear part of the plane securely.



- 2 ➤ Be sure propeller & spinner are properly attached!



- 5 ➤ Check plane responds properly to control signals.



- 3 ➤ Switch transmitter ON and connect battery, and advise any people nearby. Make sure there is no one near the propeller.



- 6 ➤ Test the range of the radio signal. Step back about 10 m and check for any unusual behaviour.

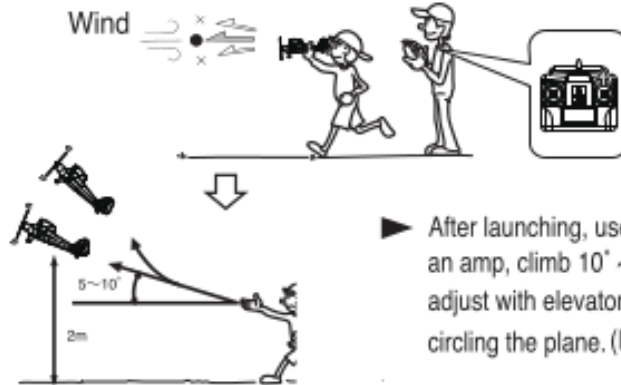


TAKE OFF

- ▶ Check plane responds properly to control signals.



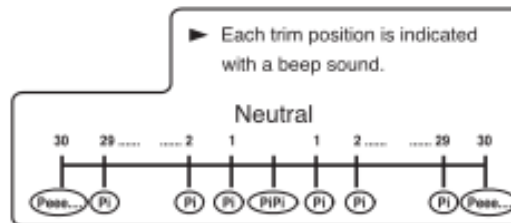
- ▶ Apply full throttle while facing into the wind, hold the plane horizontally and launch with a pushing motion.



- ▶ After launching, use the rudder to stop plane from tilting left or right. If using an amp, climb 10' ~20' at full throttle. If plane doesn't climb accordingly, adjust with elevator control. After reaching an altitude of about 2m, beginning circling the plane. (If battery is not charged properly, plane will not ascend).

ADJUSTING TRIMS

- ▶ Adjusting trim for horizontal flight.



- ▶ Take finger of rudder stick and if plane flies to the right, adjust rudder trim.



- ▶ Take finger of elevator stick and if plane flies upwards, adjust elevator trim.

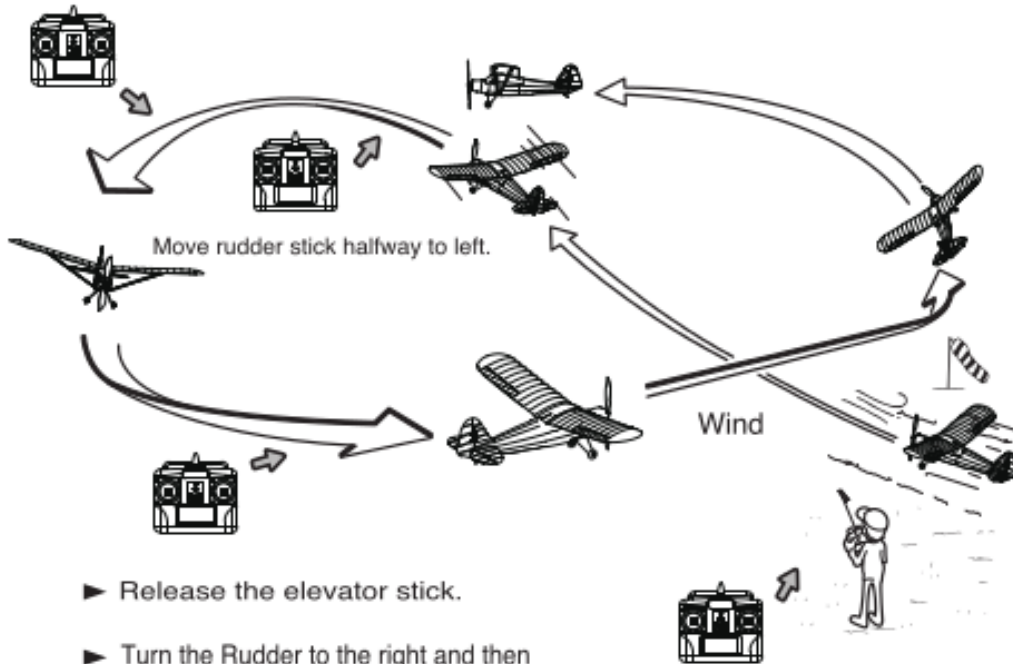


- ▶ Adjust elevator and rudder trims so plane flies straight and horizontal when sticks are free.



Flight

- ▶ Continue circling left in an oval pattern until accustomed to flying. If plane nose dips, adjust elevator control.

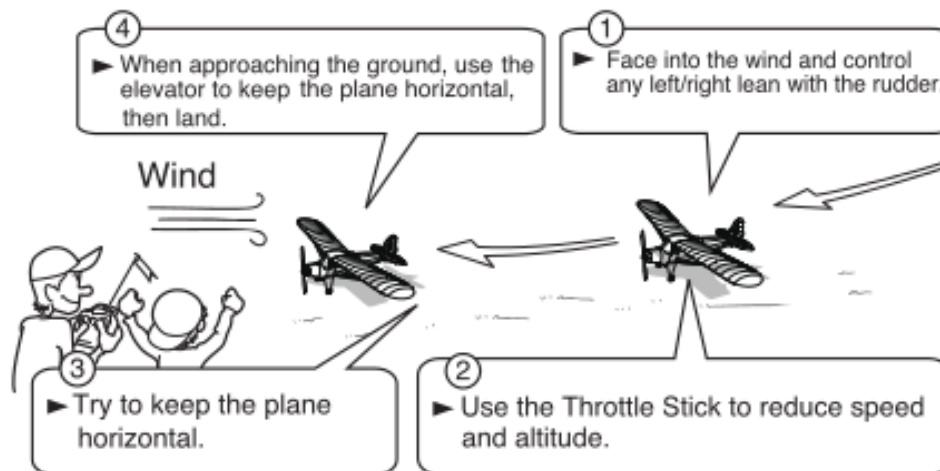


- ▶ Release the elevator stick.
- ▶ Turn the Rudder to the right and then release control stick. Once plane levels off, circle is complete.

- ▶ Move control sticks slowly.

LANDING

- ▶ When battery runs low, the auto-cut mechanism will stop propeller from spinning, so aim for flight times of about 3 minutes then land.
- ▶ When landing, make a wide turn with the wind, and then land into the wind.



AFTER LANDING

- 1 Disconnect Battery



▶ Hold connector when disconnecting battery, do not pull the cord.

- 2 Then, switch transmitter OFF.

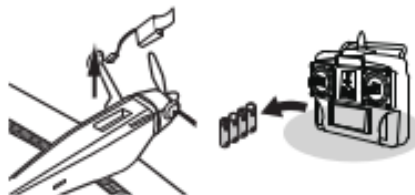


Caution: hot after flight !

Allow battery to cool down before recharging.

AFTER-FLIGHT MAINTENANCE

- 1 ▶ Remove battery from airplane when not in use.



- 2 ▶ For next flight, check that no screws have loosened and replace any scratched or damaged parts.



- 3 ▶ Clean away any dirt etc. and perform proper maintenance.



FCC INFORMATION

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 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.

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

MERITRC

上海美利达电子科技有限公司

SHANGHAI MERIT TECHNOLOGY CORP.

ADD:NO. 1058 TAOGAN RD., SHESHAN TOWN ,
SONGJIANG DISTRICT SHANGHAI

TEL : +86-21-57793858

FAX: +86-21-57793769

<http://www.meritrc.com>

E-mail:sales@meritrc.com