

EASY CONTROL HAPPY FLYING

# Air Mars

Full Function Radio Controlled Series

## OPERATION INSTRUCTION

### SPECIFICATION

Main rotor diameter: 450mm

Length: 630mm

Weight: 360g

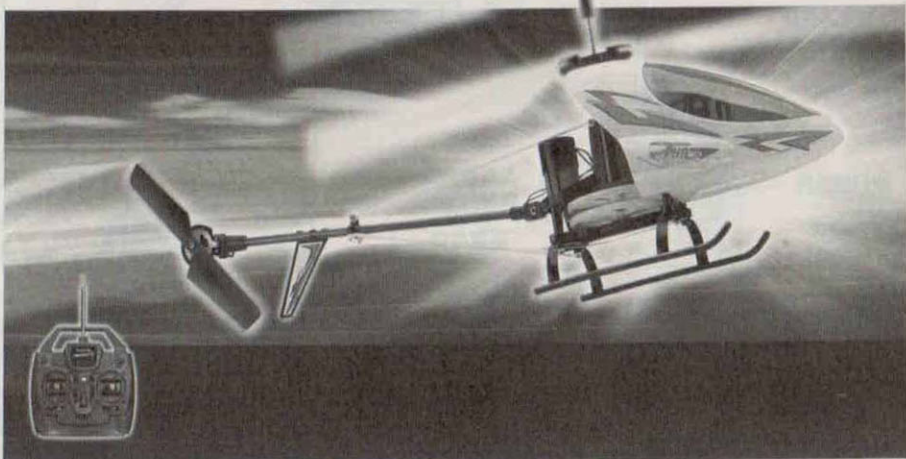
Power system: 370 motor+ N20 motor

Battery: 9.6V 650mAh Ni-MH battery



DOUBLE HORSE

NO.9080



### CHARACTERISTICS OF MODE

#### A complete set of flying equipment included

Have no use for any assembly, you can experience the feeling of flying after 4 hours for charging.

#### High-efficient lifelike contour design

It adopts optimization's one-axis obverse and reversed configuration design, and configure full scale stepless speed 2-channels radio control system while keeping lifelike contour and provided good stability and operability performance.

#### Super strong power configuration

It is provided with high-efficient gear-slowdown system, newly designed super strong crashworthy propeller, and configure tailor-made ferromagnetic motor, to ensuring enough a propelling force and more long the flight times.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

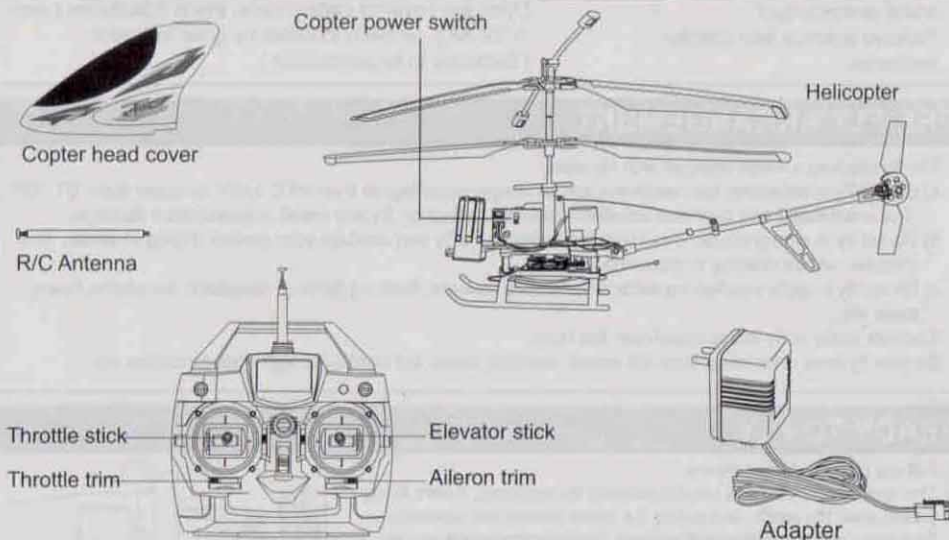
- (1) this device may not cause harmful interference.
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Notes: This equipment has been tested and found to comply with the limits, 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, or modified not expressed approved by the party responsible for compliance, may cause harmful interference to radiocommunications.

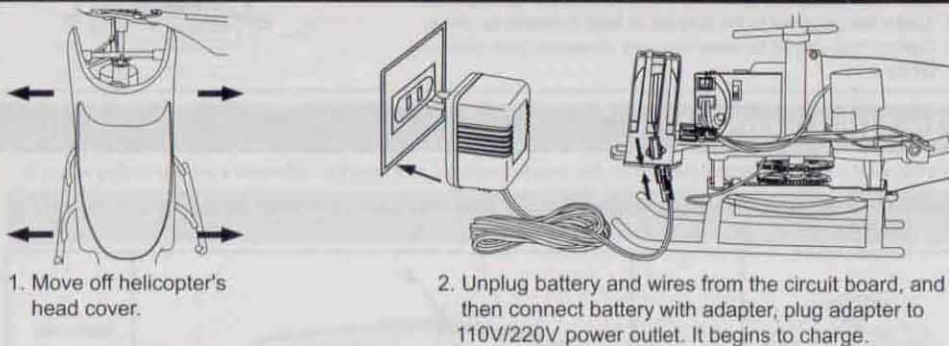
# SAFELY PRECAUTIONS

- Please according to the manual's order to proceeding operation.
- Please read through the manual before using.
- Please store small parts only in places out of the reach of children, to avoid danger.
- Never leave the battery unattended during charging, to avoid the battery overheat and result in serious danger.
- Operating must be caution each parts from the body, never close to the rotary propeller.
- Never throw Ni-Mh batteries in a fire, to avoid unexpected danger.
- Fly's field must be choose keep away from the people gather, public roads, high buildings, high voltage lines and big trees clear area.
- Never try to personally refit the circuitry, in order to avoid accidents.
- Fresh flying should operate under the people having built experience.

## PARTS:



## CHARGE BATTERIES OF CHOPPER BODY

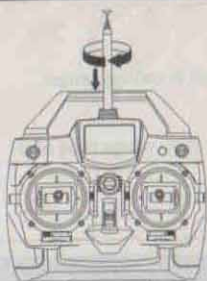


**NOTES:** Be sure the adapter fit our local electrical power supply.


**IMPORTANT NOTICE:** 1. Full charge to helicopter battery will take about 4-6 hours long. Do not over-charge. keep battery temperature lower than 45°C, when charging it, or it can cause damage.

2. After flied, the battery because of the big electric current discharge and overheat, so you must wait until it cools before installing and charging, in order to prevent influence charge's result.

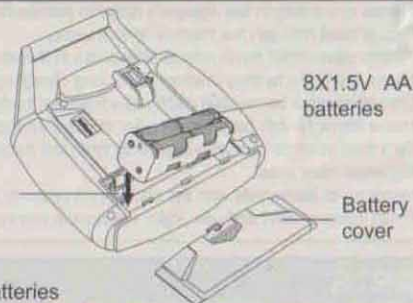
# ASSEMBLE REMOTE CONTROLLER



1. Install antenna cord  
Remove antenna into adapter clockwise.

 **Caution**

3. If the battery is intended to be replaced by the user, there shall be a warning close to the battery or in both the instructions for use and the service instructions.



2. Install batteries

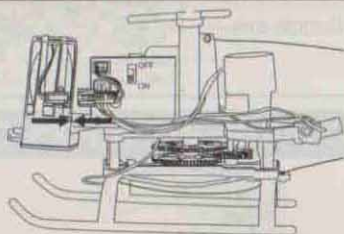
Open the cover of battery case, insert 8 batteries (size 1.5V AA) properly followed by polar indicator. (Batteries to be purchased).

# PRE-FLY ARRANGEMENT

1. The fly requires a warm weather with no wind.
  - a) Do not fly in extremely bad weather such as temperature higher than 45°C/113°F or lower than 0°C/32°F. The overheated and over-cool condition have bad effect on fly and result in helicopter's damage.
  - b) Do not fly in strong winds. It can limit the helicopter's fly and confuse your control. Flying in winds, the chopper will be missing or cause damage.
  - c) Do not fly in such weather conditions like strong thunder, flashing lighting, rainstorm, ice storm, heavy snow etc...
2. It comes ready to fly the chopper over the lawn.  
Be sure fly area is far away from the crowd, animals, trees, tall buildings, high-voltage cables etc.

# READY TO FLY

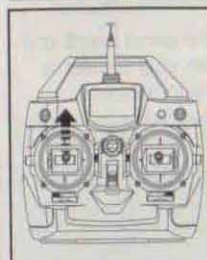
1. Pull out the controller's antenna.
2. This remote controller has already installed the protector, if want flying, please open the switch, and pulling the power control rod upwards, then again return to pulling to the lowest, the indicator light is steady light, and the remote controller can normal usage.
3. Connect battery to the jack of circuit board, put the head cover back; turn on the chopper's power switch; put it onto the open ground.
4. Leave the controller to the chopper at least 5 meters far away.
5. Confirm that fly area far away from any obstacles, then pilot your chopper.



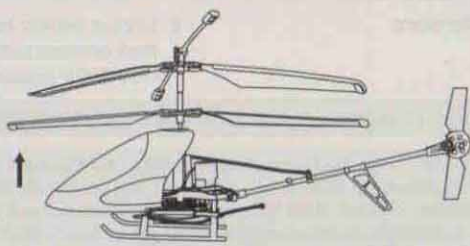
# FLY THE CHOPPER

This following shows you each operation on the remote controller and what the helicopter's corresponding action is.

Note: This product is a full scale stepless speed control system, and pushing the control rod upwards slowly while starting.

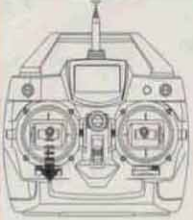
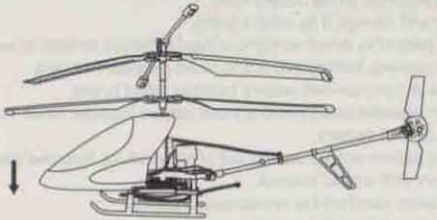
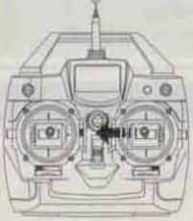
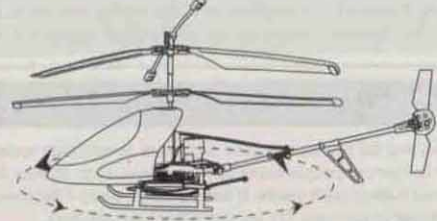
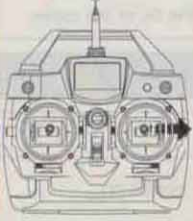
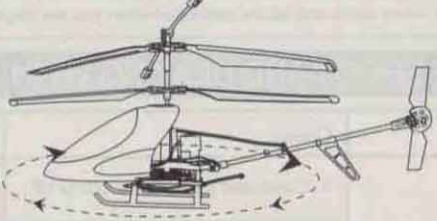


Increase  
throttle  
stick



Main rotor  
span revolves  
faster and  
the chopper  
rises up.

# FLY THE CHOPPER

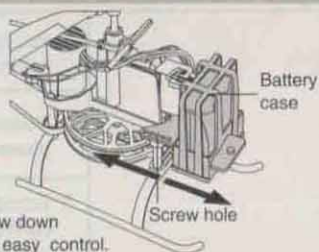
	<p>Pull down throttle stick</p>		<p>Main rotor span's rotating speed comes down and the chopper falls.</p>
	<p>Turn direction control stick to the left</p>		<p>Tail rotor span rotates clockwise increment and the chopper yaw its nose to the left.</p>
	<p>Turn direction control stick to the right</p>		<p>Tail rotor span revolves withershins increment and the chopper yaw its nose to the right.</p>

NOTE: 1. The remote controller is suitable for about 50 square meter area. Do not fly the helicopter in winds; otherwise the chopper can be blown off and out of control.

2. When you are tired of playing, always turn off the power switch of the helicopter and remote controller, then cut off the tie-in of the helicopter's battery and receiver, to prolong the battery's life.

## Specialties note:

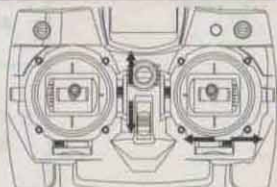
1. To adjust the screw hole of the cell box the position, may adjust the flight's forward speed; If move the cell box to forward, the airplane's forward speed is quicken; If move the cell box to backward, the airplane's forward speed is slower.
2. Push the power control rod to up, the main rotor rotational speed increases, the helicopter will ascending and flying to front at the same time. By now operate the steering control rod must be according to the flight situation, in order to the airplane as one desires flies.
3. If you are a beginner, I advise you move the cell box to backward, and slow down the airplane's forward speed, that can make the airplane to smooth fly for easy control.



## IMPORTANT NOTE

### Trimming the helicopter

Notice that there is a trim tab located below the right-hand control stick, first, it is used to trim the helicopter so that it hovers without any unwanted turning tendencies. If the helicopter deflection to turn to the right move the trim tab to the left (and vice versa). Next, notice that there is a trim tab located below the left-hand control stick, first, it is used to trim the speed of throttle stick.



# SAFE USAGE FOR BATTERY AND SOME GUIDE

1. Insert batteries properly, avoid battery leak.
2. Charge battery and change it by adult's guide.
3. Do not expose battery to direct sunlight, in heat locations or near stove to avoid explosion.
4. Do not dispose useless battery into fire to avoid explosion hazard.
5. Do not mix new and old dry-cell battery together when in use.
6. Do not mix rechargeable battery and dry-cell battery together when in use.
7. Do not charge dry-cell battery.
8. Take exhausted battery or leak battery out of the product. Remove battery out before it is long-time unused.
9. Assemble battery with proper interval.
10. The excess charge can ruin the rechargeable battery.
11. Take care of battery when it is charging.

NOTE: Wrong lying down of the helicopter can make rotor spans out of shape, which reduce the chopper's performance. Please put the chopper just right into the foam package box.

## WARNING

1. Main rotor blades and tail blades and gear can rotate at very high speeds in your playing and therefore can inflict severe damage or injury to people especially from parts such as your face, fingers, eyes and hairs.
2. The helicopter has battery pack inside. If battery leaks. Keep it far away from your eyes.
3. Use only the adapter in package. Do not use other type adapters.
4. Do not fly the helicopter if the rotor span is break, or it can cause damage.
5. The helicopter's heavy crash and fall are prohibited when you are playing, it can shorten the life of the copter.

## TROUBLE SHOOT AND DEALING WITH





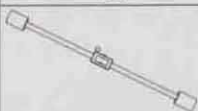

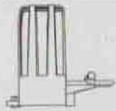
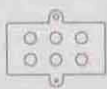



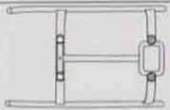
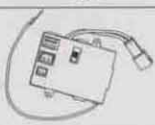


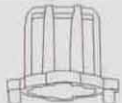
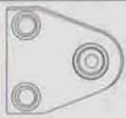
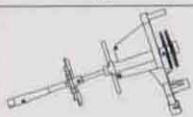


Problem	Cause	Check this
Controller doesn't work	1. Controller's power switch is off.	1. Turn power switch on.
	2. Insert batteries into controller improperly.	2. Confirm batteries be inserted according to their pole.
	3. Batteries lack of power.	3. Change new batteries instead.
Can not control the helicopter	1. You haven't operated the controller.	1. Turn controller power switch on.
	2. Doesn't turn on controller's power switch.	2. Turn helicopter's power switch on.
	3. Doesn't wrest antenna into controller completely, or antenna isn't fully pulled out.	3. Wrest antenna completely and pull it out.
	4. You play the helicopter in strong winds weather.	4. Do not play the chopper in winds, which can confuse your control.
	5. The indicator light of controller is twinkle.	5. Pulling the power control rod upwards, then again return to pulling to the lowest, or change battery.

# TROUBLE SHOOT AND DEALING WITH

Problem	Cause	Check this
Helicopter can not rise	1. Main rotor blades rotate too slowly.	1. Pull up the throttle stick.
	2. Doesn't fully charge helicopter's battery.	2. Full charge helicopter battery. ( see instruction above)
Helicopter land too fast.	You loose the throttle stick or pull it down too fast.	Slowly pull down the throttle till the chopper landing smoothly.

## PARTS ARE ALTERNATIVE

Items to be purchased are lined below. You can order them by their item name, purchase them from local distributors.

01 	02 	03 	04 
Head cover	Main rotor (upper)	Main rotor (under)	Connect buckle
05 	06 	07 	08 
Balance bar	Tail rotor span	Battery case	Battery cover
09 	10 	11 	12 
Main motor	Tail motor	Battery pack	Landing gear
13 	14 	15 	16 
Receiver	Chopper tail unit	Main motor cover	Tail motor cover
17 	18 	19 	20 
Main rotor part	Main rack	Main rack soleplate	Motor gear