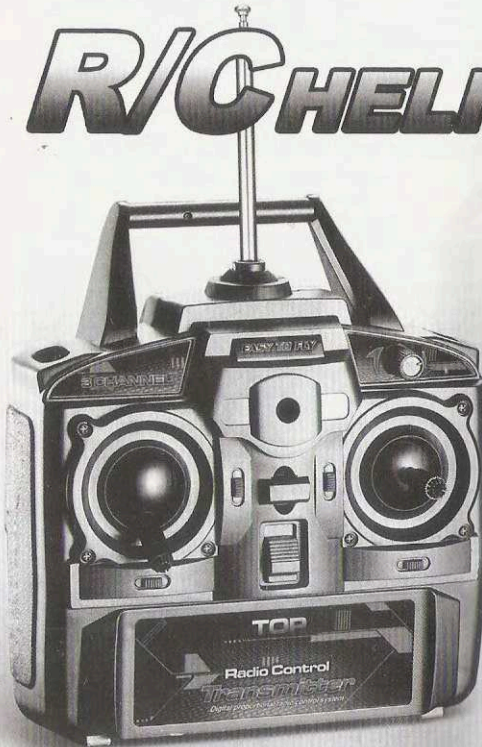


**14+**

# **R/C HELICOPTER**

## **INSTRUCTION**



### **Function introduction:**

1. Intelligent control system (ICS)
2. Full scale remote control
3. 360 degree accurate orientation
4. Smooth suspension performance
5. New-developed electricity-saving function
6. Battery-protection model, prolong the using life.

### **Safety rule:**

1. Please read carefully the instruction before operating this product. Please operate it as per the manual indicated.
2. Put the smaller spare parts of the helicopter beyond the reach of the children to avoid accident.
3. Please do not put the helicopter and battery in high temperature or heated place such as fire or near electrothermal device.
4. Please noted that the helicopter should be kept 1-2 meter away from the user or any other people in order to avoid collision to the people and cause injury.
5. Please don't disassemble or modify this product. Otherwise it may cause breakdown of the product or even cause danger.
6. Children should play the helicopter under the guardianship of the adult.

Please read carefully the instruction book before using. (As for warning items, please read carefully) and keep it for future reference.



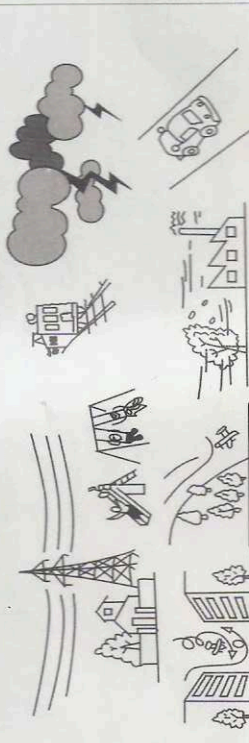
## Caution:

1. You should make sure safe all the time when using because the helicopter is controlled by infrared. The helicopter with full-charged battery is not allowed to be used under condition of low electricity because it may cause your helicopter to lose control.
2. Don't make any of the electrified parts humid to prevent any other breakdown from happening.
3. You should check your transmitter for safety everytime you fly or maintenance the flying model for first-time flying.
4. If the helicopter is smeared, please don't use any cleanser to clear it as other cleanser may damage the plastic or synthetic parts.
5. Always start the power of the transmitter before flying and switch off the power of the transmitter after finish flying.

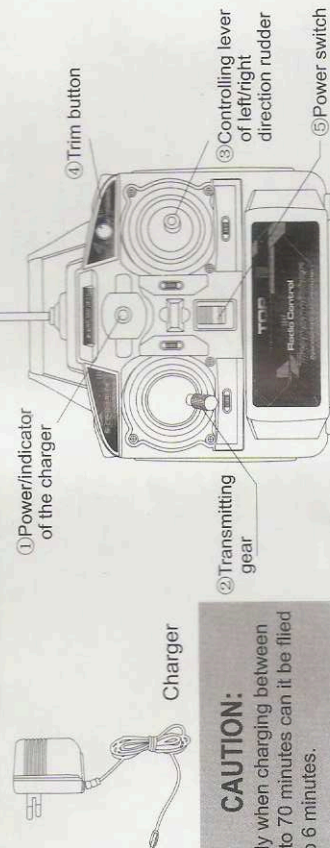
## Warning:

1. For this helicopter, you have every responsibility to make sure it won't pose damage to the body and property of others.
2. Debugging and assembling should be strictly finished as per the instruction indicated and make sure the foot, head and any other part of the body should be kept away from the rotating part, otherwise it may cause damage to the helicopter or body.
3. The user has every responsibility to make sure correct operation and our company and sales agent won't take any responsibility for any loss or damage occurred due to incorrect operation.
4. This product is forbidden to be used by children under 14 years old.

## PLEASE DON'T FLY THE HELICOPTER ON THE PLACE WHERE HAS THESE MARKS.



## Operation of the transmitter



### CAUTION:

Only when charging between 60 to 70 minutes can it be filed 5 to 6 minutes.

## Charging instruction of power battery

Switch off the power switch of the helicopter first, connect the plug of the charger to the electric trough on the helicopter, then insert the charger into the socket. When charging, the LED indicator will be ON. When finish charging, the LED indicator will be OFF. Charging time will be between 60 to 70 minutes. -built-in lithium battery is included inside, please pay attention to the safety items as below:



Please pull the switch to OFF position when charging.

1. Don't put the battery with electricity under high temperature or heated place such as fire or electrothermal device, otherwise it may cause damage or explosion.
2. Don't strike the battery or strike the battery against the surface of the hard object.
3. Don't soak the battery into the water, battery should be stored in the place where is dried and ventilated.
4. Only the original charger can be used to charge the helicopter.
5. Working personnel should be on the spot when charging.

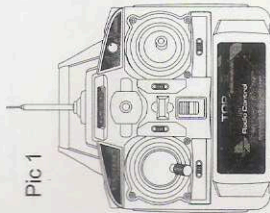
## CAUTION

- If you don't need to play this helicopter, please pull the switch to OFF position to prevent excessive discharging. If the connector is still kept connecting, it may cause excessive discharging due to long-time electricity consumption.
- Charger should be suitable to your local voltage.

## Assembling the transmitter

1. Loading of the antenna: Load the antenna clockwise into the screw column of the antenna terminal on the transmitter. (pic 1)
2. Loading method of the batteries: Open the battery cover on the back of the transmitter, correctly, then load 6 AA batteries correctly as per the polarity shown. (pic 2)

Pic 1

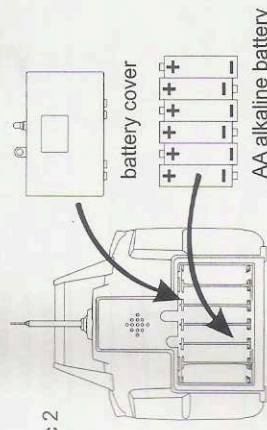


(Alkaline battery is highly recommended, battery should be bought separately.)

## CAUTION:

1. Make sure the battery and its polarity in the battery compartment should be correct. Please don't load the batteries upside down.
2. Please don't mix the old batteries with the new ones.
3. Please don't mix using batteries of different types.

Pic 2



## Flying condition

1. It should be filed in sunny and non-windy condition.
  - ① Please don't fly it under the extreme weather; it may affect the flying result or even damage the helicopter if it is filed under the condition of too hot or too cold.
  - ② Don't fly it under the condition of too strong wind. Too strong wind may cause limit to the flying or hamper the flying control. The helicopter will be blown away or being damaged if it is filed under the condition of too strong wind.
2. Please fly it in the spacious space indoor and make sure there is no obstacle, pet or people nearby.



## ADJUST THE HELICOPTER

- Put the helicopter steadily on the level ground. Please don't hold it in hand, open the power switch of the helicopter and the colorful indicator will be glittering for 3 seconds, then aim the transmitter to the helicopter and then open the power, push the power lever to the toppest and then restore to zero, this time the helicopter can start to fly.
- Slowly push the power lever, control your helicopter to fly around 1.5 to 2 meters height.
- When the helicopter is hovering clockwise (pic 4) or rotating (pic 5), please adjust it anticlockwise (pic 6) until it stop rotating and only when this time it can be filed.
- When the helicopter is hovering anti-clockwise (pic 7) or hovering (pic 8), please adjust it clockwise(pic 9) until it stop rotating and only when this time it can be filed.



or

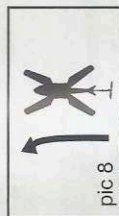


hover clockwise

keep rotating clockwise



or



hover anti-clockwise

keep rotating anti-clockwise

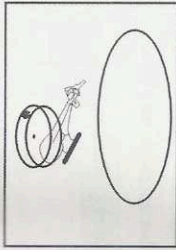
## PRACTICE OF DIRECTION RUDDER

Slowly push the power lever till the helicopter can fly to 2 meters height and keep it. Take turns to practise turning, ascending and descending, left and right controlling, then repeat the operation. If your helicopter sometimes may reach the ceiling, please lower the altitude rudder as soon as possible. Direct collision may damage the body and propeller.

		Transmitter/model
Altitude rudder	<p>Ascending ↓ descending</p>	
Direction rudder	<p>Turn right [ ] turn left</p>	
Front and back turning	<p>Forward ← backward</p>	

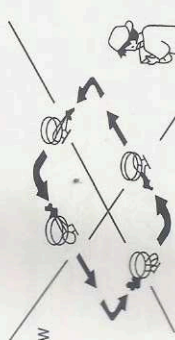
## Hovering practice

Now you have already learned some basic operation, draw one circle on the ground, then practise moving or hovering inside the circle. Repeat it and stand beside the helicopter and practise hovering, then stand in the front of the helicopter, if your helicopter is filed too high and loses direction, please use the transmitter to slow down the speed immediately.

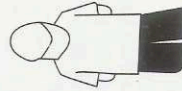


## Pattern practice

Through enough practice, you can try flying as below

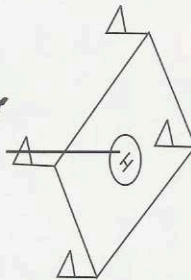
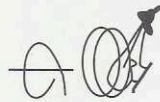


Keep flying forward—turn left—forward—turn left—forward—turn left, Practise flying into a square pattern, keep practising, gradual practising, fly into a circle or digit 8 shape.



(digit 8 shape flying)

Fixed point rotation  
(direction rotation)



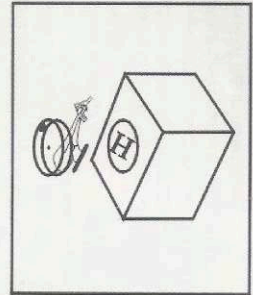
Land at the fixed location  
(land in the fixed location)

## Landing practice

Then, decide one target point to land.

### CAUTION:

When it is filed 30cm above the level ground, the helicopter will become unstable as it is affected by the current of its own propeller. This phenomenon is called "ground reaction", the lower the gravity of the helicopter, the bigger the "ground reaction" will be.





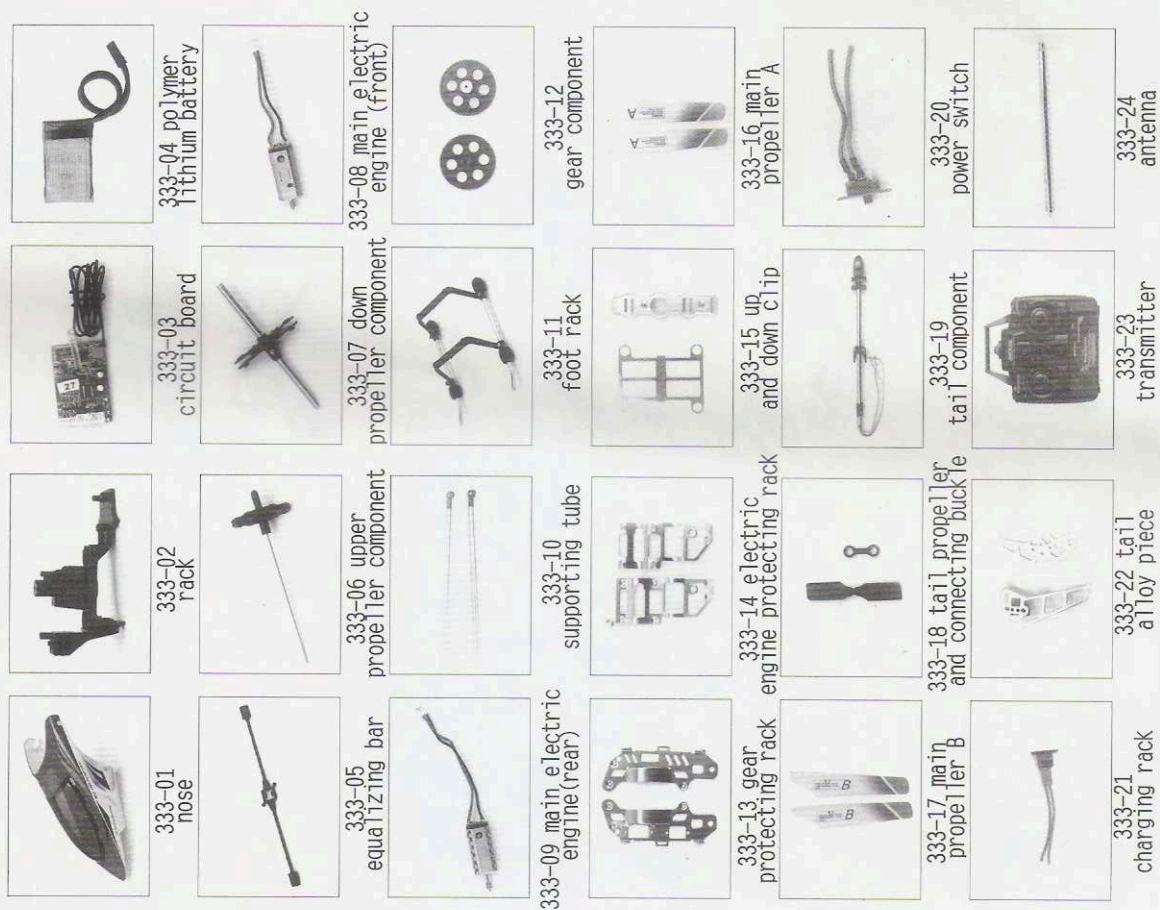
## Trouble shooting

Problem	Reason	Trouble shooting
No power with the transmitter	1. Switch is on the "OFF" position	Pull it to "ON" position.
	2. Incorrect loading the battery.	Check and make sure the battery should be loaded as per correct polarity shown.
	3. Batteries are exhausted.	Replace with all new batteries.
	1. Don't open the transmitter.	Pull to "ON" position on the switch.
Can no control the helicopter	2. Pull to "OFF" position on the helicopter.	Pull to "ON" position on the helicopter.
	3. The infrared transmitting sensor don't aim at the helicopter	Make sure the infrared transmitting sensor should aim at the helicopter.
	4. Too strong wind	Do not fly under the condition of too strong wind as too strong wind may cause limit to the helicopter or even hamper your controlling.
	1. Rotating speed of the rotator is too slow.	Power lever needs to be pushed upward.
The helicopter can't be flid higher	2. The helicopter is not completely charged.	Charge the helicopter to full.
Helicopter Land too fast	1. You may pull back the power lever too quickly.	Slowly pull back the power lever and make the helicopter land slowly.

## Caution:

- When insufficient power with the transmitter or helicopter, the controlling distance will be affected and become near.
- The maximum controlling radius is 8 meters, please use it within 8 meters. The helicopter will be out of control when it is controlled beyond 8 meters.
- When insufficient power with the helicopter, it may cause the flying height not enough or having difficulty in taking off, this time please stop flying to prevent the battery from being damaged. When finish flying, please switch off the power switch to prevent the battery from being damaged; if do not use it for a long time, please suspend charging and pull the switch to OFF position to prevent the battery from being damaged.
- If the helicopter is damaged or deformed, please repair it immediately. If the rotator is severely broken or damaged, please don't fly it. Otherwise it may cause injured.
- Please remove the batteries inside the transmitter if do not use it for a long time to prevent from battery leakage or any other breakdown with the batteries which may cause damaged to this product.
- Please don't let the helicopter fallen off from the height as it may damage the helicopter or reduce the using life of the helicopter.
- Please don't cover the lense position on the transmitter as you may not receive the signal.
- Please don't paste any other stickers on the helicopter. Otherwise it may affect the receiving result of the infrared signal.

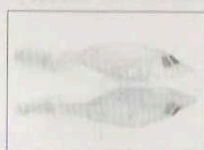
## Parts picture (333)



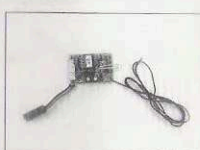


333-25  
charger

### Parts picture (338)



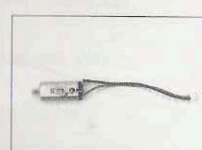
338-01  
engine shell



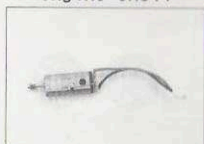
338-02  
circuit board



338-03 polymer  
lithium battery



338-04 main electric  
engine (front)



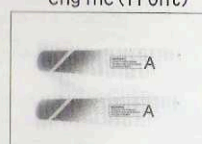
338-05 main electric  
engine (rear)



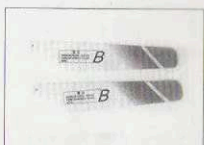
338-06 tail  
electric engine



338-07  
equalizing bar



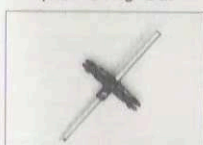
338-08 main  
propeller A



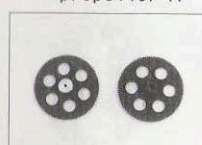
338-09 main  
propeller B



338-10 upper  
propeller component



338-11 down  
propeller component



338-12  
gear component



338-13  
engine rack



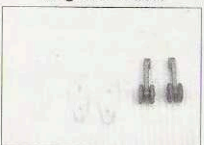
338-14  
battery rack



338-15 colorful  
indicator strip



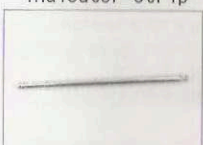
338-16 tail propeller  
and connecting buckle



338-17  
decoration part



338-18  
transmitter



338-19  
antenna



338-20  
charger

**FCC Part 15**

This device complies with Part 15 of the FCC Rules. Operation of this product 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.

This equipment has been tested and found to comply within 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 technician for help.

**FCC warning**

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