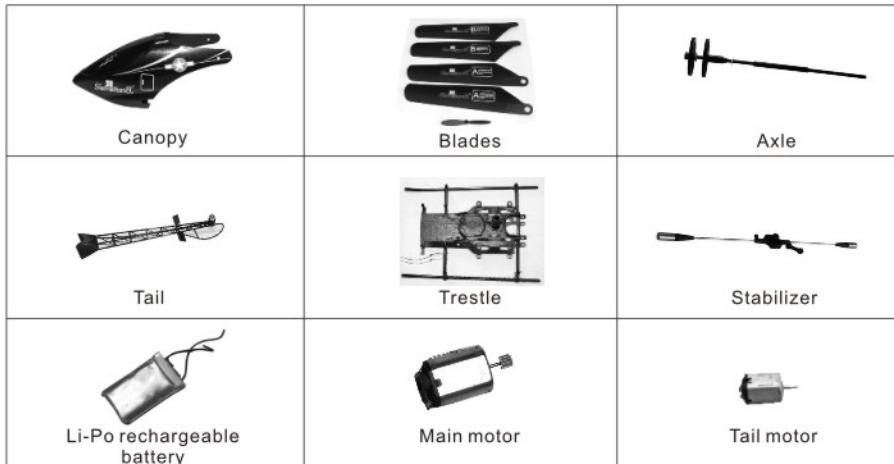


## Technical data

Operating voltage for the remote controller: DC(8 x AA)(Excluded)  
Battery for helicopter: DC3.7V 350mAh Li-Po battery

Frequency: 27MHz  
Channel: 3CH, can fly forward/backward, left/right, up/down  
Main blade length: 20.5cm  
Tail blade length: 3.5cm  
Helicopter length: 24cm  
Helicopter height: 10.5cm  
Overall length: 27cm  
Helicopter weight: 51g  
Material: 65% PA, 10% PVC, 25% Electronic

## Spare Parts List



### Further Details

If you have any further queries, welcome to <http://www.woddontoys.com> or contact WODDON TOYS anytime to [info@woddontoys.com](mailto:info@woddontoys.com). Hot Line at 86 755 2585 5666

Happy Flying!!!

# INSTRUCTION MANUAL



Item No.: WD0513



**3 CHANNELS** radio controlled  
Fly forward & backward, turn left & right, up & down

**WODDON INDUSTRIAL LTD.**

<http://www.woddontoys.com>

# Welcome to Woddontoys

Congratulations on your purchase of this state-of-the-art indoor helicopter. The helicopter uses the latest in electronic and battery technology to give you a flight experience you will not forget.

**Remember** - Although the Salvation 9 is designed to be easy to fly and extremely stable in the air, it is an aircraft and as such will take time to master. Please refer to the user manual for tips on take-off / landing and also trim control adjustment. Always practice a few feet above the ground and master your take-off and landing before trying to fly forward/backward. You are more likely to need spare parts if you do not master the basics first!!

## Intended use

1. The Salvation 9 is delivered 'ready to fly' and does not need to be charged before your first flight. When you first receive it DO NOT CHARGE IT, JUST FLY IT. When the helicopter will no longer take off from the ground, LEAVE FOR 5 MINUTES FOR BATTERY TO COOL BEFORE CHARGING, then charge it (as per the charging instructions shown on Page 7.)
2. The Salvation 9 is delivered with partial-charged Li-Po battery separately, and never over charge the battery. Normally, for first few charges, will take you 1.5-2 hours. Then only 30-45 minutes for a full charge. Once the light appears on the charging plug, switch off the charger at the mains and remove the charging cable from your battery LEAVE FOR 5 MINUTES FOR BATTERY TO COOL BEFORE CONNECTING AND FLYING.
3. Changes or modifications of this helicopter is not permitted except the technicians assigned by Woddontoys, as this may lead to damage to the product. In addition, it can involve other risks such as short circuit, fire, electric shock, etc.

NO PART OF THE PRODUCT COULD BE MODIFIED OR CONVERTED BY THE UNAUTHORIZED PERSON!

**⚠ The safety instructions contained in this manual have to be observed without fail!!**

## PLEASE RETAIN THIS INFORMATION FOR FURTHER REFERENCE.

### Always :

- Make sure battery compartment is secure.
- Use batteries of the correct size and type.
- Fit batteries correctly observing the plus and minus marks on the battery and compartment.
- Replace a whole set of batteries at one time.
- Remove dead batteries from equipment.
- Remove batteries from appliance that will not be used again for a long time.
- Please remember that small button cells and AA batteries should be kept away from young children as they could be easily swallowed. Seek medical advice if you believe a cell has been swallowed.

### Never :

- Mix different types of batteries.
- Mix old and new batteries.
- Dispose of batteries in a fire.
- Attempt to recharge ordinary batteries.

For user who is willing to protect the environment.

The consumer has a significant role to play in reducing the impact of waste electrical and electronic equipment on the environment, through re-using or recycling such equipment.

Some of the components used in electrical and electronic equipment may contain hazardous substances that can damage the environment and present a risk to human health if not properly disposed of.

The crossed out wheelie-bin symbol on the controller is to remind you that waste electrical and electronic products should not be disposed of with household waste. If you are unable to re-use or recycle your product it should be disposed of at a civic amenity site. Alternatively, you may take your old product (of similar function) back to the store where you purchased your new product within 15 days of purchase. You must take proof of purchase of your new product when returning your old product to the store.

## Safety instructions

Read the user manual completely before flying, then refer to below important information for correct operation.

1. To ensure safe operation, the user must comply with the safety instructions and warnings contained in this manual.
2. The charger is designed in compliance with protection class, ensure that the insulation (of the housing or the output cable) is neither damaged nor destroyed.
3. The charger should be kept out of the reach of children!
4. In schools, training centers, computer and self-help workshops, etc., the use of charger and accessories must be supervised by trained personnel in a responsible manner.
5. Avoid charging operation under adverse ambient conditions. This can lead to damage to the sensitive electronics on the inside of the charger and thus to possible danger for the life of the user. Adverse ambient conditions are:
  - excessive humidity (> 75% relative, condensing)
  - wetness and dampness, petrol
  - dust or combustible gas, vapour or solvents
  - excessive ambient temperature (> approx. + 40 °C)

In the case of incorrect handling (excessive charging current or incorrect polarity), the charger may be overcharged or destroyed. In the worst case, the charger can explode and in doing so cause appreciable damage.

6. Never unplug the plug-in power unit from the mains socket by the connecting cable! Only hold it by the housing when disconnecting it.
7. Keep transmitting devices (mobile telephone, radios, etc.) away from charger, the transmitter radiation arose can lead to interference in charging operation or to destruction of the charger.
8. Never connect your charger to the mains voltage immediately after it has been taken from a cold room to a warm one. The resulting condensation could, under adverse circumstances, destroy the device. Allow the device to reach room temperature before connecting it to the power supply.

**⚠ Never touch the charger with wet or moist hands. There is the risk of a fatal electric shock!**

## Flying tips

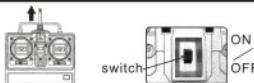
- 1) You can expect a flight time of 8-10 minutes after fully charging the battery.
- 2) When taking off, do not move the right throttle stick too slowly as this will cause the helicopter to topple over. Move the right throttle stick smoothly and continuously forward until the helicopter takes off. Be smooth with your movements.
- 3) When landing, give the helicopter a burst of power just before touch down to slow its descent and land smoothly.
- 4) Until you get used to 'control reversal', always try to fly the helicopter with the nose pointing away from you. By doing this, the movement of the helicopter will be the same as the movement of the right hand stick, e.g. move stick right to turn helicopter right. Until you get used to 'control reversal', always try to fly the helicopter with the nose pointing away from you. By doing this, the movement of the helicopter will be the same as the movement of the right hand stick, e.g. move stick right to turn helicopter right.
- 5) Salvation 9 has a range of up to 100 feet. Be aware that the presence of electrical interference from lights and wires may reduce this range.
- 6) During your first few flights, try to keep the helicopter close to the ground. This will allow you to cut the throttle and safely land if you become disorientated.
- 7) Always turn the Salvation 9 off immediately after flight.
- 8) After flying and before recharging, always turn the Salvation 9 and controller off.
- 9) When not in use, the battery should be disconnected to avoid the battery completely discharging.
- 10) Recharge the battery before putting it away.
- 11) Check for any damage examine everything including the blades, landing gear, tail blade and body of the helicopter. If anything is damaged it must be repaired before flying again.
- 12) To avoid damage to the motors, always turn the throttle off if the blades become entangled in anything or are prevented from turning otherwise motors may burn out!!

## Choosing flying area

Your Salvation 9 is designed for indoor playing with a control area about 100 feet. As the Salvation 9 is a bit powerful when playing, so keep in mind that only play it away from human beings or animals. Also the blade is made from plastic, so keep away from any hard obstacles to avoid any unnecessary damages.

## Preparing to take off Salvation 9

- 1) Extend the antenna on the Radio Controller and switch the controller 'ON' .



- 2) Extend the blades separately, or it maybe entangle each other and cause blade breaking, or burn out the motor.



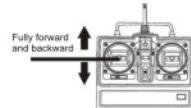
- 3) Switch the helicopter on ('ON/OFF' switch on the left side of main body)



- 4) Place the helicopter on a flat, hard surface with the tail pointing towards you and the nose facing away from you.

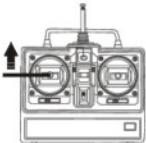


- 5) Make sure the left throttle stick to the lowest position firstly, then move it fully forward and backward, this will arm the controller and connect to the helicopter, and the red LED will keep stable lighting.

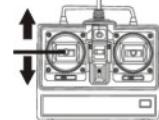


## Taking off Salvation 9

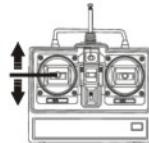
- 1) Move the left stick slowly forward - the rotors will start to spin.



- 2) As you move the left stick past the halfway point, the helicopter will lift off.

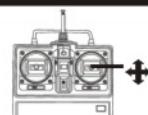


- 3) To ascend, move the left stick further forward. To descend, slowly move the stick backwards.



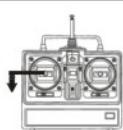
## Steering Salvation 9

- 1) To turn the nose of the helicopter left, move the right hand stick to the left.
- 2) To turn the nose of the helicopter right, move the right hand stick to the right.
- 3) To fly the helicopter forwards, move the right hand stick forwards.
- 4) To fly the helicopter backwards, move the right hand stick backwards.



## Landing Salvation 9

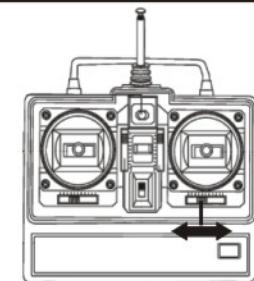
To land the helicopter, slowly move the left stick backwards.



## Trimming Salvation 9

The Salvation 9 is fitted with four trim controls. These allow you to adjust the flight of the helicopter and remove any unwanted turning tendencies.

- 1) If the helicopter spins after take-off, use the trimmer control (located beneath the right hand stick) for adjustment. If the helicopter spins right, move the trimmer control to the left (and vice versa).
- 2) If the helicopter does not lift off quickly enough, use the Trim 1 (located to the right of the left hand stick) for adjustment. Move the trim forwards to give quicker lift and backwards for slower lift.
- 3) For more tips on this part, please refer to detailed instruction: **HOW TO FINE TUNE YOUR Salvation 9 HELICOPTER**



### HOW TO FINE TUNE YOUR Salvation 9 HELICOPTER

#### External Trim Adjustment

- 1) To increase throttle and lift, adjust 'Trim1' upwards.
- 2) To decrease throttle and lift, adjust 'Trim1' downwards.
- 3) To increase forward motion, adjust 'Trim2' upwards.
- 4) To decrease forward motion, adjust 'Trim2' downwards.
- 5) If your Salvation 9 is spinning, adjust 'Trim3' left or right until the spinning stops. If trim is fully adjusted left or right and spinning still occurs then follow below steps and internal trim D slightly.

#### External Trims

Trim1 Trim2 Trim3



#### External Trims

#### Internal Trim Adjustment-for advanced pilots

- 1) Remove 'Trim Cover' from external trim controls to the centre handset and set all.
- 2) Using a small screwdriver, make slight adjustments to the four trim controls(A-D):  
**A**=throttle trim control.  
**B**=left/right trim control(prevent spinning). Trim this button until the matched red LED light turns on.  
**C**=forward/backwards trim control. Trim this button until the matched red LED light turns on.  
**D**=right/left trim control(prevent spinning). Once the helicopter still spins right after trim the above mentioned 2, LED lights on, move this trim D button to left (and vice versa).

For more details, welcome to  
<http://www.woddontoys.com>

## Charging Salvation 9

We have two ways to charge the helicopters, by optional AC/DC adaptor and assigned USB cable.

### Option 1: Charging by the optional AC/DC adaptor

1. Firstly, make sure the helicopter switched off.
2. Plug the AC adaptor into a wall socket, and ensure socket is turned on. A red light on the adaptor should appear.
3. Connect the end of the charging cable to the charging socket on the side of the helicopter as arrowhead, the plug will easily connect to the socket and does not need to be forced together as it only fit one way.
4. Once you connected the helicopter to the charging cable, the indicator lamp on the adaptor will light off, charging is complete when the indicator LED on the adaptor disappears.
5. Switch off the AC adaptor from the wall socket and remove the charging cable from the helicopter socket.
6. Leave the helicopter for 5 minutes for battery to cool.
7. You are now ready for take-off.
8. It will take 1.5-2 hours for full charge for the first few times, and then only take 30-45 minutes for a full charge.

### Option 2: Charging by the optional USB cable

1. Firstly, make sure the helicopter switched off.
2. Connect the USB cable to the computer.
3. Connect the end of the charging cable to the charging socket on the side of the helicopter as arrowhead, the plug will easily connect to the socket and does not need to be forced together as it only fit one way.
4. Charging is complete when the indicator LED on the USB cable lights up.
5. Switch off the USB cable from the computer and remove the charging cable from the helicopter socket.
6. Leave the helicopter for 5 minutes for battery to cool.
7. You are now ready for take-off.
8. It will take 1.5-2 hours for full charge for the first few times, and then only take 30-45 minutes for a full charge.

### Caution:

- 1) Never leave your Salvation 9 charging near a fire or other source of heat.
- 2) Never leave the Salvation 9 unattended during charging.
- 3) Always disconnect from the mains once fully charged, do not leave to 'trickle charge' as this WILL DAMAGE THE BATTERY.
- 4) Never disassemble the charger.
- 5) Only use the charger supplied with the Salvation 9.
- 6) NEVER STORE BATTERY WITHOUT CHARGING FIRSTLY, this will damage the battery.  
Always cool the helicopter 5 minutes down before charging.

⚠ If the blades are damaged, it may not be repaired but has to be replaced with a new one.  
Broken plastic parts can be sharp-edged. For your own safety, use protective gloves.

## Unpacking and storing Salvation 9

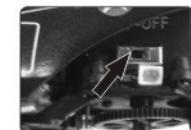
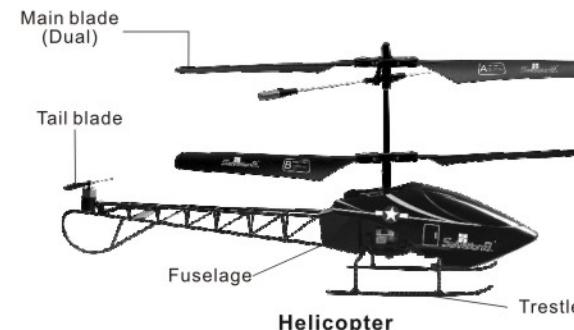
The Salvation 9 helicopter is fastened securely in place to avoid any damage during transit. The Salvation 9 is a delicate device so you must be careful when removing it from the package. Ensure the contents are complete with:

- 1) 1 X Helicopter
- 2) 1 X AC charger
- 3) 1 X Radio controller
- 4) 1 X Antenna
- 5) 1 X English user manual

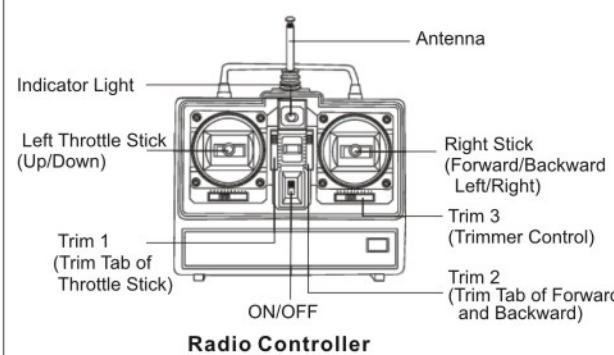
Packaging box should be kept for proper storage of the helicopter after each use.

**Warning:** Improper storage of the helicopter may result in the blades bent or warped. This will decrease the flight performance.

## Getting to know Salvation 9



The 'ON/OFF' switch is located on the side of the fuselage.



AC Charger (Different standards available)



USB cable (optional, Not included)

## Assembling Salvation 9

The Salvation 9 is delivered fully assembled and only requires the antenna to be screwed into the radio controller and batteries to be installed in the controller. And connect the partially charged battery to helicopter.

## Trouble diagnoses

Problem	Cause	Solution
No power to controller	Power switch is turned 'OFF'	Switch 'ON' controller and helicopter
	Battery needs to be charged	Charge battery in helicopter
	Battery needs to be replaced	Replace battery in controller
	Controller needs to be 'armed'	Push left hand stick fully forward then fully backwards
No control to helicopter	Controller is turned 'OFF'	Turn controller 'ON'
	Controller antenna is not screwed in / extended	Check antenna is screwed in and fully extended
	Strong windy day	Do not fly it in strong wind as this will limit or disturb your control
Helicopter is not flying high enough	Blade speed is too slow	Ease the left throttle stick further forward
	Battery is not fully charged	Recharge your helicopter (see 'Charging Salvation 9' section)
Helicopter lands too quickly	Left throttle stick moved too quickly	Gently move the left throttle stick backwards when landing. Remember to give a slight burst of power just prior to touch down
Helicopter spins / flies off course	Trimming adjustment	See 'Trimming Salvation 9' section

## Battery care information

Your Salvation 9 is powered by dedicated Li-Po battery. Do not attempt to disassemble the battery or replace with any after-market model.

- 1) Use only batteries recommended in this user manual. Ensure that batteries are installed with the correct polarity.
- 2) Batteries should be installed under adult supervision.
- 3) Never allow the battery to become hot during charging. Warm is fine, hot is not !
- 4) Never leave the battery charging overnight-switch off once the LED lights on the charger.
- 5) Never use an after-market charger as this can damage the battery.
- 6) Do not short circuit the charging terminals.

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