

User manual

Wireless R/C helicopter using instruction

1. Thank you for choosing the R/C helicopter series of songyang.
2. In order to play and protect the helicopter well, please read this instruction before playing.
3. For the instruction is so important, please keep it well after your reading.
4. Packing: One helicopter, one transmission antenna, one instruction, one transmitter, one charger, one tail rotor.

⚠ Cautions



1. Please observe the operation manual or packing explanation to install and use.
2. The product contains small parts, it may cause swallow or choke.
3. Never play the R/C model under the high-tension wire crowd or on the road or it may cause the parts malfunction.
4. The charger is not a toy; this product must only be used with the original collocation charger, remove the charger before clean the model; Regularly examine for damage to the charger, wire, plug or the other parts. In the event of any damage, it must not be used until the damage has been repaired.
5. Regularly examine for the propeller, shell or the other parts. In the event of any damage, it must not be used until the damage has been repaired.
6. It will guarantee the electromagnetic environment requirement of air radio stations, prohibited use any kind of model transmitter in the designated area with the condition point for the airport runway in the center, radius in 5000M. Also it must not be used the model transmitter in the relevant government departments issued the radio control order time and the area.
7. Non rechargeable batteries are not to be recharged.
8. Never short circuit the batteries, throw it in a fire or attempt to open their outer casings.
9. As the end of the antennae may be dangerous, do not aim it toward anyone's body, face or eyes.

Fuselage length: 600mm
Main rotor diameter: 460mm
High: 280mm
Weight: about 508g
Frequency: 27MHz/40MHz/49MHz
Operational range: more than 40m
Charge time: about 150 minutes
Flying time: about 6-8 minutes

Use batteries/charger
1. Helicopter batteries (inside)
2. Transmitter batteries: "AA" 1.5VX4
(Additional purchase)
3. Charger: AC 100-240V 50Hz/60Hz DC: 7.4V

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.

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

1

Instruction of assembling the controller

1. (Fig 1). Insert the antenna in the hole of transmitter press tightly and turn clockwise, until the antenna is connected to the controller well.
 2. (Fig2). Install "4 X 1.5V" battery (not included) in the remote controller in the right way, and then close the cover of the box.
- Notice: 1. If the antenna is not well connected, the control distance will be near.
 2. Extend the antenna, the control distance will be further.
 3. Install the battery must recognize the battery and battery box is precise plus or minus polarity, can't installation reverse.
 4. Please take out the battery from the remote controller if it is unusable for long time.

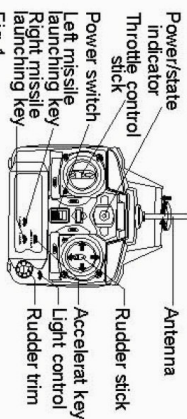


Fig. 1

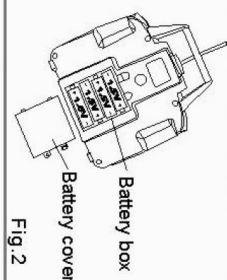


Fig. 2

Using instruction of charging power batteries

Firstly, you should turn off the helicopter. Then you connect the plug of the charger to the insertion hole. At last, insert the plug of charge into the hole of the power socket.

During the charging time, the charger LED light will be in red color, when charging is completed, the charger LED light will be in yellow color (Fig3).

Notes: The product is equipped with battery, please note the follows of safety in use.

1. When you finish to play the helicopter, you should be wait 30 minutes when charge if not it will lead for the battery.
2. You can only charge the battery with specified charger.
3. Don't disassemble the battery.
4. Don't charging when the helicopter power switch is in the "ON" position.
5. When you finish the play, please remove the plug of the battery from the socket of the helicopter.
6. When long time no use, please remove the plug of the battery, please make sure the full power of the battery, if not it may cause the permanent damage for the battery.

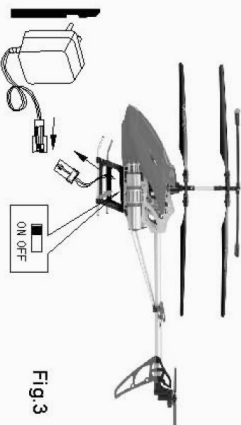


Fig. 3

It is dangerous for touching the high speed assembly when the helicopter in working.



2

Preflight conditions

Select a large wide-open and windless area for flying and make sure that there is no obstructions animals or people nearby.

Cautions

- Be sure of the surroundings before flying.
- Don't play the model in the extreme weather, not at high heat temperature above 113 degrees, also don't play in the overheat or overcold, if not it will be damage or affect the flight.
- Make sure that there is nobody using the same frequency as you do at the same time nearby.

Prepare for take off

1. Put the helicopter on the flat ground and turn on the helicopter power, then all lights of indicator are flash.
2. Ensure that you are at least 2m away from the back of the helicopter (face to the tail).
3. Recheck the area to make sure it is clear of people, animals, trees, buildings, high voltage wire and other obstructions.
4. Make sure that the transmitter antenna is completely extended and the throttle stick are at its lowest position. Turn on the power of the transmitter and the state indicator begin to flash. Push up the throttle stick at its highest position and the state indicator begin to flash in high speed. Then pull down the throttle stick at the lowest position and the state indicator turns steady. So you are ready to take off (fig 1)

Caution: 1. The propeller is the high speed assembly when the helicopter is working. Please keep away from it, it is dangerous for you.
 2. Always plug the connector of the transmitter before taking off, then turn on the helicopter, and always turn off the helicopter before unplugging the connector of the transmitter battery. You can avoid injury that due to the incorrect turn on/off the system.


Control method

Control range: the control range of the R/C helicopter is more 30 meters, don't play over this range.

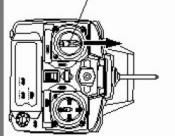
Warning: Please keep your helicopter in sight when you play.
 Don't fly in the strong wind, wind may over power your helicopter and cause it to fly out of range. When the helicopter is out of the range, you will not be able to control it.
 Flying time: on a full charge and in low wind conditions, the R/C helicopter will fly about 6-8 minutes. If you find that the model fly no enough time or fly low. And when the throttle stick push up enough, the helicopter also can't fly over 1 meter. Please restart the helicopter after recharging the battery.

Ascend


When you push up the throttle stick, the spinning speed of the main rotor blade is increase and the helicopter begins to ascend.



Ascend




Throttle stick
Push up



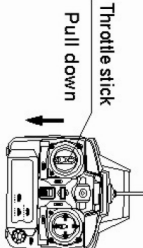
Power State indicator
Throttle control
Throttle stick
Power switch
Fig 1

Descend

When you pull down the throttle stick, the spinning speed of the main rotor blade is decrease and the helicopter begins to descend.




Descend



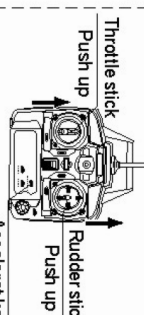
Throttle stick
Pull down

Forward

1. When the throttle stick is pushed up at the same time, rudder stick is pushed up and the helicopter moved forward.
2. When you press the accelerator key, the forward rate will slow up 30% than the normal flight. reset the accelerate key could restore Factory Settings




Forward



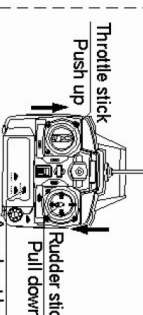
Throttle stick
Push up
Rudder stick
Push up
Accelerator key

Backward

1. When the throttle stick is pushed up at the same time, rudder stick is pulled down and the helicopter moved backward.
2. When you press the accelerator key, the backward rate will slow the 30% than the normal flight. reset the accelerate key, could restore Factory Settings



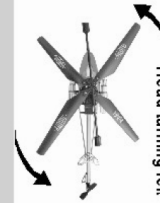
Backward



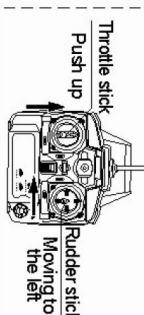
Throttle stick
Push up
Rudder stick
Pull down
Accelerator key

Head turning left

When the throttle stick is pushed up at the same time, rudder stick is moving to left, the head of the helicopter turn to left.




Head turning left



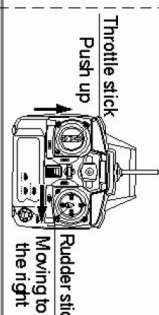
Throttle stick
Push up
Rudder stick
Moving to the left

Head turning right

When the throttle stick is pushed up at the same time, rudder stick is moving to right, the head of the helicopter turn to right.





Head turning right



Throttle stick
Push up
Rudder stick
Moving to the right

Launch the left missile


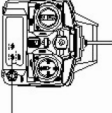
Press the left missile launching key when the helicopter is flying the helicopter will launch missile.

Left missile launching key

Launch the right missile

Press the right missile launching key when the helicopter is flying, the helicopter will launch missile.






Right missile launching key

Special suggestion

In the flying, if you no push the rudder stick, but the helicopter is still rotating in the sky, you can adjust by rudder trim.



1. If the helicopter is rotating on the left, you can turn the rudder trim in right, till the helicopter in normal position.

Turning to left

Rudder trim (turning to right)

2. If the helicopter rotating on the right, you can turn the rudder trim in left, till the helicopter in normal position.

Turning to right

Rudder trim (turning to left)

5

Troubleshooting guide

Problem	Cause	Solution
The indicator of transmitter doesn't works	Batteries are drained. Transmitter's antenna is not screwed in place and/or is not fully extended.	Check and make sure that the batteries are installed by the right polarity. Install new batteries.
No control	You play the helicopter in strong wind weather.	Do not fly in strong winds. For it will limit or disturb your flying control.
Helicopter is not flying high enough	Rotor speed is too slow. Helicopter is not fully charged.	Pushing up the left stick(throttle stick). Fully charge your helicopter.



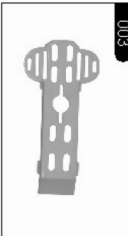




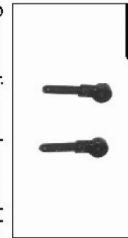
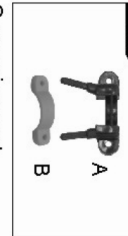
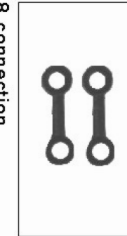


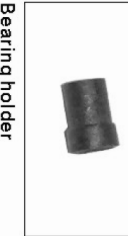
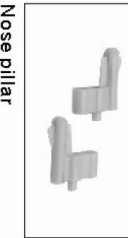
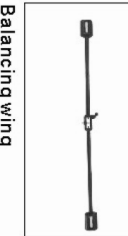
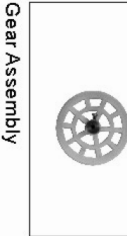

Caution

- The control distance will shorter if the controller or the helicopter in low on battery power.
- Following behaviours can avoid destroying the battery when the helicopter launches difficulty or fly is not enough please stop flying when stop flying please turn off the power when long time not use, please charge the batteries enough and remove it from the helicopter, push the battery switch to the off.
- If you don't use the transmitter for a long time, Remove all the batteries out in order to avoid the battery leakage to damage this product.
- Don't drop the helicopter from high position or crash it seriously because that will damage it seriously or shorten the using time.
- The operational range of the helicopter is 300M, please play it in the perational range. If the operational range between transmitter and helicopter is more than 300M, the helicopter may lose control.


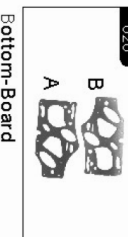
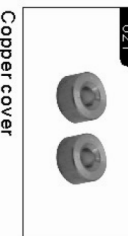
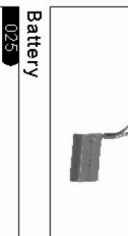
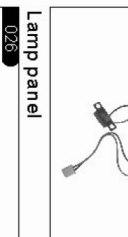

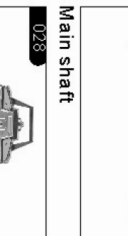
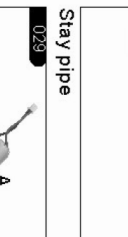
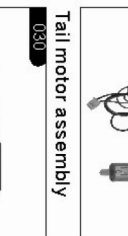

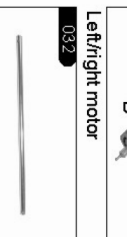
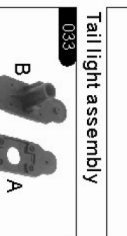
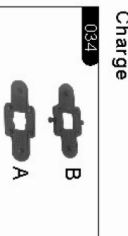
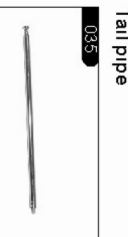




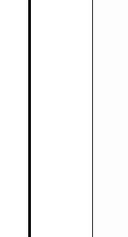
Warning:

- You are responsible for the using of the helicopter. Make sure that it will not do any person and injury or damage the property.
- When you adjust, assemble and fly the helicopter, you must operate it according to the operation instruction strictly. Make sure that your finger, head or other parts of the body away from the spinning parts. Other wise it will cause damage to the helicopter or do harm to yourself.
- The user is responsible completely for the correct operating and using the product, we and the dealer accept no liability for damage and loss that due to incorrect using and operating.
- Forbid children under 14 years to operate the product.
- This product is the fly model. As the other fly model, if crash it seriously with the other good, it will damage. We don't guarantee to repair for the accident or crash damage. pls keep the safety when you enjoy the flying.

6

Troubleshooting guide		
001  nose	002  nose	003  Electromotor cover
004  Horse	005  Main shelf	006  Main rotor
007  Bearing assembly	008  Connecting rod assembly	009  Open-wing seat
010  8 connection	011  The nose bracket	012  Balancing wing
013  Bearing holder	014  Nose pillar	015  Gear Assembly
016  Gear B assembly	017  Tail wind assy	

7

Troubleshooting guide		
019  Right/left motor cover	020  Bottom-Board	021  Copper cover
022  Battery	023  Lamp panel	024  Electronic circuit board
025  Main shaft	026  Stay pipe	027  Tail motor assembly
028  Transmitter	029  Left/right motor	030  Tail light assembly
031  Charge	032  Tail pipe	033  Cover of lower rotor frame
034  Cover of upper rotor frame	035  Antenna	036  Components of left missile
037  Components of right missile		

8