

J3 CUB

Aerobatic Model Planes

INSTRUCTION MANUAL



MADE IN CHINA

WARNING :

An R/C model airplane is not a toy and is not suitable for pilot under 14 years.
Read the instructions carefully before any use. If you are a beginner, it is necessary to let an experienced airplane pilot assist you.
StarMax reserve the right to modify the specification or printing errors without prior notice.

J3-CUB

INSTRUCTION MANUAL

WARNING:

J3 Electric R/C model is not a toy and is not suitable for the child under 14 years.

1. Do not fly near: Houses or buildings; Children's play areas, Road traffic, railways airports, overhead power lines and pylons. Do not fly over people.
2. The ideal location for flying is a wide-open space in four directions with no people. (If using a model airfield, be sure to contact the airfield's administrator for permission.)
3. The battery should not be overcharged or put on the flammable material or near flammable material when it is being charged.
4. Always check that other pilots are not using the same frequency (band) in the same area before flight and make sure there you are flying in a safe area.
5. Do not fly in the strong winds.
6. Do not try to catch the plane by hand when it is flying.
7. The children who are younger than 14 years old should be assisted by an experienced adult when the plane is being flown.
8. This model aircraft is designed to be powered by an electric motor. Flying this model aggressively may lead to serious accidents or injuries.
9. Do not touch the propeller when the motor is running, it could lead to serious injuries.



Thank you for purchasing the StarMax's Piper J3 Cub Electric R/C airplane, Piper is a Propeller plane which is ideal for the beginners!

This Ultimate Scale Piper J-3 Cub is an awesome new addition to StarMax! The Piper will perform most maneuvers you will want to try and the nice thing about it is if you happen to meet the ground sooner than you had planned, there is a good chance the plane will survive for another flight, although you may want a tube of goop or epoxy close by just to be sure you can fix minor tears if they occur.

In order to fly the Piper, please make sure you read through the instructions carefully before attempting to operate the model for the first time

You alone are responsible for the safe operation of your radio-controlled model. Young people should only be permitted to operate this model under the instruction and supervision of an adult who is aware of hazards involved in this activity.

Note: StarMax Technology Industry Limited.
will not take any responsibility for damage or accident caused by the improper uses of this model.

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Features:

Powerful Propeller Plane

Perfect aerobatic maneuvers, such as rolls, loops, and the "Cobra maneuvers";

Stable invert flight;

Excellent hedgehopping performance;

Excellent stability of nosing up and down;

Controllable nose landing gear, easy to fly;

Die-cast design easy to replace the spare parts;

Specification (Brushless version):

Wingspan approx: 1400mm

Length: 950 mm

Flying weight: 1800g

Wing load: 56 g/dm²

12*9 Prop ESC(45A), Powerful 3648 Motor(out runner) KV700

Radio System: 2.4Ghz Radio (4Ch Tx and 4Ch Rx)

4 Nine gram servos

Battery:2200MAH-14.8V-20C



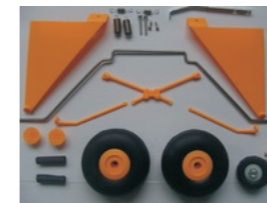
Vertical Wing



Horizontal Wing



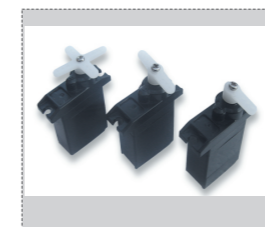
Main Wing



Landing gear set



Wing Rod



servo



Charger



Battery



Fuselage



Cockpit



Cowl



Spare Parts



Motor



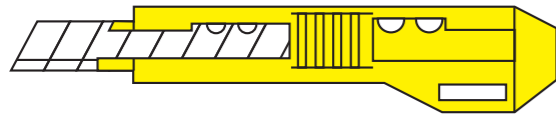
Propeller



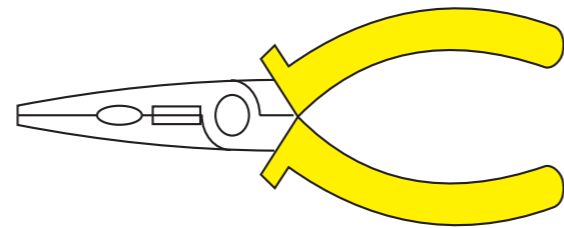
TX&RX

Tools and Items

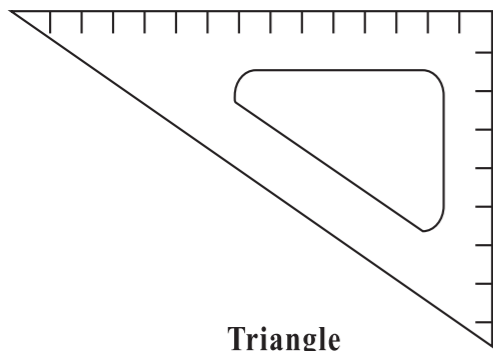
To assemble this airplane you need to prepare some tools.



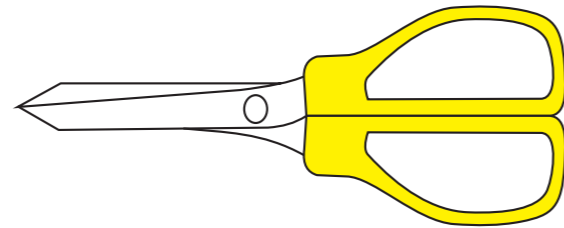
Cutter Knife



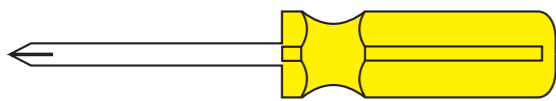
Pliers



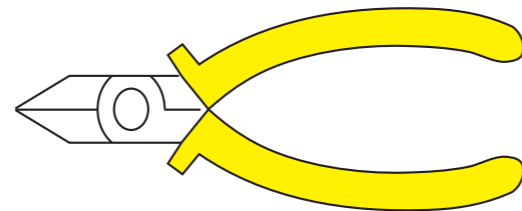
Triangle



Scissors

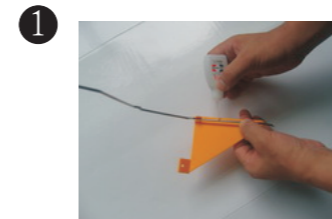


Screwdriver

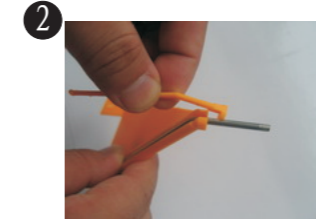


Nippers

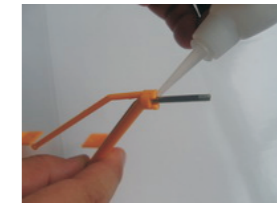
1. Assembly of the front landing gears:



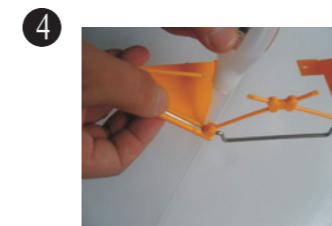
Glue the steel wire to the dam-board of front landing



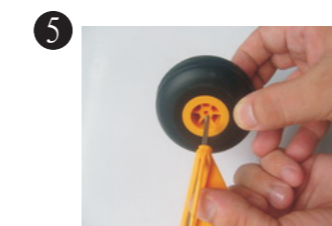
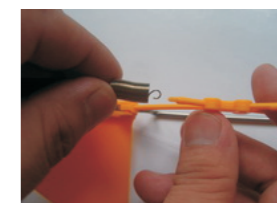
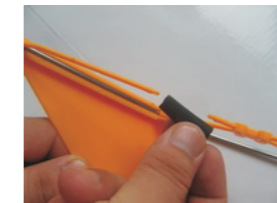
Glue the front wheel to the steel wire.



Glue the stand of the front landing gears to the dam-board.



Fix one end of spring to the board ,the other end to the stand of front wheel. Heat the casing to fix on the spring.



Screw the wheel into the steel wire in clockwise direction.



Screw the wheel chock and wheel into the steel wire to ensure the flexible rotation of wheel.



Prepared the front landing gears as shown.

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2, Assembly of horizontal tail & vertical tail and tail wheel:



1 Install the screw horns in the horizontal tail. (PA1.7X15mm 4pcs)



2 Install the steering holder in the vertical tail.



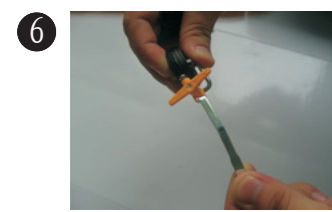
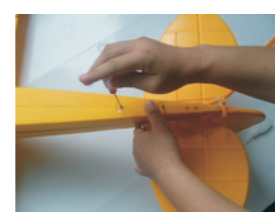
3 Install the screw horns in the steering holder with screw. PA1.7X15mm 2pcs



4 Install the horizontal tail in fuselage with screw (PM3.0mmX30mm 2pcs)



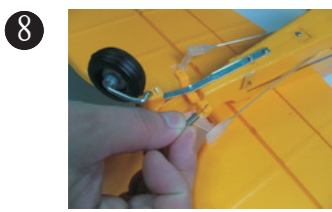
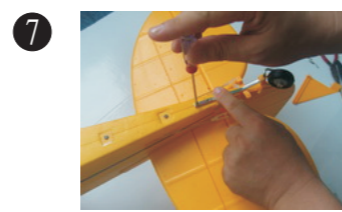
5 Install the vertical tail in fuselage with screw (PM3.0X45mm 1pcs, PM3.0X40mm 1pcs).



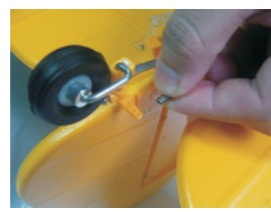
6 Install the rear landing gear with glue.



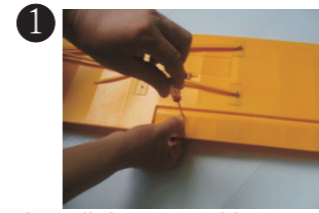
7 Fix the rear landing gear with screw. (PA2.6X8mm 2pcs)



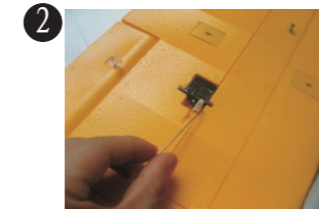
8 Fix one end of the spring in the steering holder, the other end to steering arm, close the chuck after leveling elevator. 0.5X4X24.8mm 2pcs



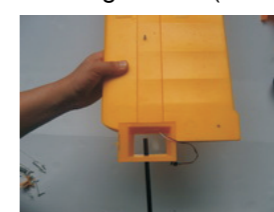
3, Assembly of main wings, front landing gear and propeller:



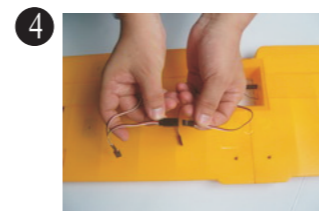
1 Install the control horns of aileron. (PA1.7X15mm 8pcs)



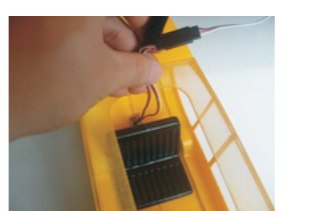
2 Install the steel wire with the second hole on servo arm, close the chuck after leveling aileron. (1.2X65mm 2pcs)



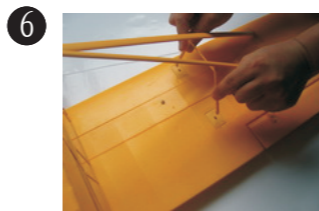
3 Put reinforcing rod into the holes on left and right wing with two ends. Then fasten reinforcing rod with screws.



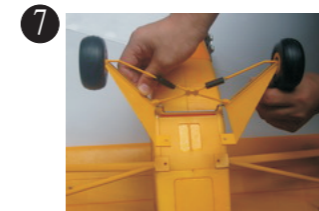
4 Connect two steering devices with Y wire. the Y wire will reach equipment bay after through the hole on cockpit.



5 Install the main wing and cabin with screws. (PM3.0X35mm 2pcs)



6 Put inclined strut into the right hole on main wing.



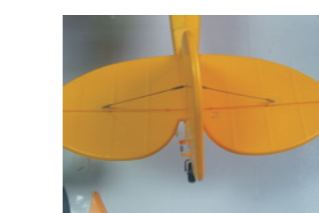
7 Fix front landing gear with steel wire.



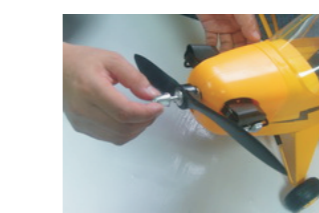
8 Tighten diagonal draw bar and dam-board with screws. (PA2.6X20mm)



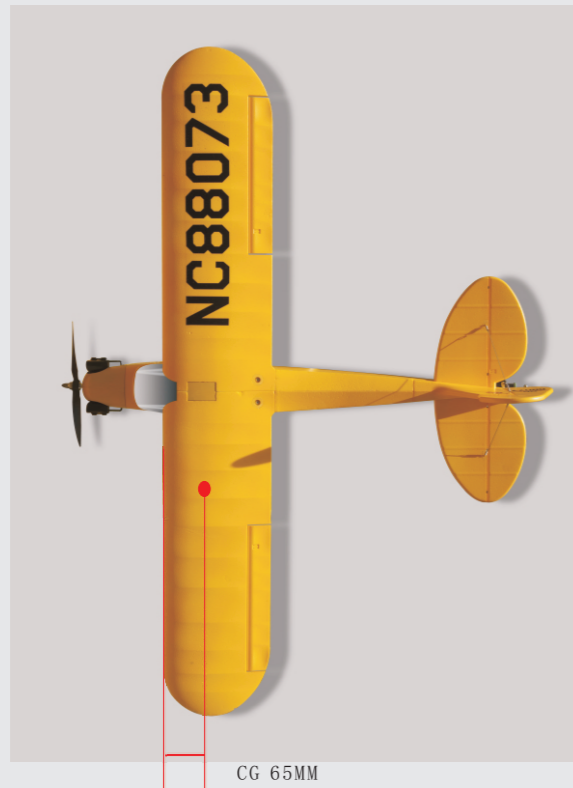
9 Fix the horizontal wing and vertical wing with spring wire (spring :0.5X4X24.1mm 8pcs For horizontal 1.0X94mm 2pcs For vertical 1.0*94mm 2 pcs)



10 Fix propeller into the spindle of motor. Then tighten it up with spacer and screw.



Center of gravity



Charge the Li-Po battery pack

Connect the charger to mains power supply. The battery will be fully charged in 2 hours when the indicator on the charger turns from red to green, and then disconnect immediately. Do not leave battery unattended at any time.

Note: the Li-Po battery will be explosive and fired if overcharged or improperly-disposed.

Keep the battery and charger out of children's reach

Only charge the battery with the supplied charger.

The user should take the responsibility for the use of other chargers.

Do not charge the battery if there is any noticeable swelling or the battery temperature is over 70°C.

Do not damage, dismantle the battery.

Do not short-circuit the battery.

Do not put the battery into water.

Improper use of the battery will cause fire or explosion!

Always put battery in a metal container when it is charging or not in use.

It is recommended to use the included balance charger to charge your battery.

Pre-Flight Check

1. Check for any bends or damaged parts on main wing, fuselage or tail wing.
2. Check the propeller, adapter and all screws are securely fastened.
3. Always check there are no other pilots using the same frequency (band) in the same area!
4. Securely fasten the main wing.
5. Make sure the power switch on the plane is OFF before connecting the battery. Make sure you stay clear of the propeller.
6. Switch the transmitter on, then switch the receiver on.
7. In case motor starts rotating accidentally, have an assistant hold the rear parts of the plane securely.
8. Check plane responds properly to control signals.
9. Screw the antenna all the way into the transmitter and test the range of the radio signal. With the transmitter and model switched on step back around 20m and check for the interference.
10. If there is no interference, the plane is now ready to fly.

Flight

Take-off:

1. Face into the wind, hold the plane horizontally and launch with a pushing motion.
2. Extend transmitter antenna all the way and check plane responds properly to transmitter signal.
3. After launching, Climb 10-20° at full throttle. If plane doesn't climb accordingly, adjust elevator control. After reaching an altitude of about 40m, begin making circular circuits with the plane. You can also take off from the ground, gradually move the throttle stick to full power, keep the plane straight by adding rudder stick when necessary. Once plane is at full power into wind and has sufficient air speed gradually add a little elevator until plane slowly lifts off the ground. Be careful not to over control the plane, just keep steady and straight and climb to a safe height. At this point you should start to make circular climbs and then into level flight.

Flight:

1. The plane should fly level at around 50% of full throttle.
2. The flight time will be prolonged if you allow the plane to sometimes glide at a safe altitude.

Landing:

When the battery runs low, the auto-cut relay may stop the propeller from rotating or you should place the throttle to minimum. When the propeller stops rotating, decide your landing route based on wind direction and landing area. Turn wide into wind. From altitude of about 1m use the elevator to land the plane horizontally, these ensure a safe landing.

Tips

1. Train yourself in the FMS (Flight Model Simulator) before you fly the StarMax'S J3 Electric R/C airplane. It will help you with coordination for when fly your model.
2. Fly the J3 at low speed on the ground to learn the direction control of the plane. Please remember when the plane fly's towards to you the control direction is reversed.
3. Flying with the assistance of an experienced flyer will help your first-time flight.
4. Do not fly in the strong wind.
5. Always face the wind when taking off and landing.
6. Do not fly the plane across your head, this can lead to disorientation, always fly the plane in front of the flight line and never behind.
7. Please consider purchasing a spare battery pack for longer flights.
8. Do not fly this plane with damaged or broken parts this may result in accidents or injury. Please contact our local dealer for replacement spare parts.

Problem Solving

Phenomenon	Typical error	Problem solving
Motor do not work	The battery is not full charged	Charge the battery
	The battery of the transmitter is in low power.	Replace the battery in the transmitter.
	There is some broken circuit in the plane	Contact your local dealer
Can not fly in a line	The rudder is not in the center of the fuselage	Adjust the trim on the transmitter.
	The main is not installed in the center.	Reassembly the main wing.
	The nose landing gear is twisted.	Verify the nose landing gear.
Can not climb	The battery is not fully charged.	Charge the battery.
	Elevator is tilt downward.	Adjust the trim on the transmitter.
Short control distance	The battery of the transmitter is in low power.	Replace the battery of transmitter.
	The antenna is not fully extended.	Extend the antenna fully.