Skylinerc
The Aerobatic team

3D 50 Series

ALMOST-READY-TO-FLY

Assembly Manual

1. For can correct assembly this model ,enable this model the design to obtain the ful display , should assemble in under the experienced public figure' s correct Instruction
2. Please does not trace in the child the place assembles this aisplane
3. Before model flight , must take the full security measure You must reponsible to the flight scene facility and the personal safety
4. Before perphery the flight must inspect whether there is line electrical noise
5. Plaese observe national the related radio act of administration
6. Completes after the assembly , please continuously retains this instruction booklet to facilitate the consult
7. Inifial flight this model should from the experienced flight that collection related flight and the adjustment news
8. Remembers,flies the airplane model which has not assembled good perthaps has not adjusted is extremely dangerous
9. The beginner must have experiences under public figure's Instruction to fly , surely may not alone fly!

warning!

REQUIRED FOR OPERATION

1 Wireless apparatus

This airplane model should use 4 channels or the above airplane model special-purpose remote control device 5 standard servers, please do not have to use car and the ship model remote control device

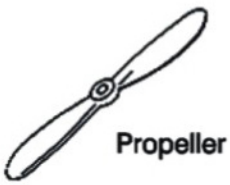
12 batteries

2 steering engine extension lines

2 Engine system

Use model special-purpose engine

Engine: .46–.52 2C .52–.82 4C



Propeller

Fuel pipe

SPINNER

Filters the mouth

3 Flying and Starting supplies

Fuel pipe

Fuel

Trigger

Absorption of shock sponge

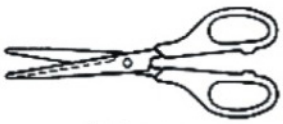
4 Glue

Instant Glue

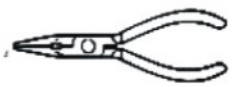
AB expoxy glue

TOOLS REQUIRED

Slanting cuts



Scissors



Pliers

Iron

Drill bit

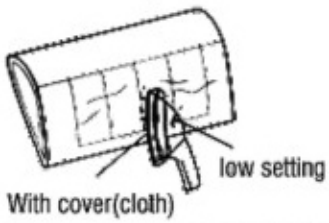
Knife

Screwdriver

Adhesive tape

BERORE YOU BEGIN

1, Before the assembly please the careful reading instruction booklet, he can give you the full detail instruction If you are the first contact airplane model public figure, should assemble under the experienced correct instruction!
2, Please inspect in the packing all components, if lacks perhaps the damage, please immediately with dealer relation
3, As a result of weather Temperature The moist change, the model outer covering possibly can appear the phenomenon which relaxes, you may use the package to have a cotton fabric the iron to burn again the outer covering smoothly, but must pay attention to the temperature not to have too to be high



Features:

- Latest structure
- Super quality
- Easy installation
- High performance hardware includes: Ball linkage control system
  Fiberglass long servo arms
  Servo extension safety connector clips
- Low wing loading makes it easy to fly
- Anodized 6061 Aluminum landing gear
- Carbon fiber wing tube
- Aerofoil tail wings
- Powered by Electric or Glow
- Light weight construction with high structural strength
- Excellent aerobatics and 3D performance
- Two pieces removable wings fitted nylon bolts

Specification:

EXTRA260
Wing Span: 57″ (1450mm)
Length: 53″ (1350mm)
Wing Area: 651sq. in. (42sq. dm.)
Flying Weight: 4. 6-5. 3lbs (2100-2400g)
Radio: 4CH/5S or 4s 1ESC (60A)

EXTRA330L
Wing Span: 57″ (1450mm)
Length: 53″ (1350mm)
Wing Area: 648sq. in. (41. 8sq. dm.)
Flying Weight: 4. 6-5. 3lbs (2100-2400g)
Radio: 4CH/5S or 4s 1ESC (60A)

YAK55M
Wing Span: 57″ (1450mm)
Length: 53″ (1350mm)
Wing Area: 646sq. in. (41. 7sq. dm.)
Flying Weight: 4. 6-5. 3lbs (2100-2400g)
Radio: 4CH/5S or 4s 1ESC (60A)

RAVEN
Wing Span: 57″ (1450mm)
Length: 53″ (1350mm)
Wing Area: 651sq. in. (42sq. dm.)
Flying Weight: 4. 6-5. 3lbs (2100-2400g)
Radio: 4CH/5S or 4s 1ESC (60A)

EDGE540
Wing Span: 57″ (1450mm)
Length: 53″ (1350mm)
Wing Area: 651sq. in. (42sq. dm.)
Flying Weight: 4. 6-5. 3lbs (2100-2400g)
Radio: 4CH/5S or 4s 1ESC (60A)

MX2
Wing Span: 57″ (1450mm)
Length: 53″ (1350mm)
Wing Area: 654sq. in. (42. 2sq. dm.)
Flying Weight: 4. 6-5. 3lbs (2100-2400g)
Radio: 4CH/5S or 4s 1ESC (60A)

YAK54
Wing Span: 57″ (1450mm)
Length: 53″ (1350mm)
Wing Area: 646sq. in. (41. 7sq. dm.)
Flying Weight: 4. 6-5. 3lbs (2100-2400g)
Radio: 4CH/5S or 4S 1ESC

SU26M
Wing Span: 57″ (1450mm)
Length: 53″ (1350mm)
Wing Area: 651sq. in. (42sq. dm.)
Flying Weight: 4. 6-5. 3lbs (2100-2400g)
Radio: 4CH/5S or 4S 1ESC

KATANA
Wing Span: 57″ (1450mm)
Length: 53″ (1350mm)
Wing Area: 659sq. in. (42. 5sq. dm.)
Flying Weight: 4. 6-5. 3lbs (2100-2400g)
Radio: 4CH/5S or 4S 1ESC

Other Items Needed (not included in the kit)

- Propeller APC14*7E For EP APC11x6-13x6 For GP
- Spinner (2"-2. 5")
- 6-12"servo Extension

Additional Required Equipment

Radio Equipment

4-channel radio system
4-5 standard servos

Power System

Electric	Brushless outrunner 8 oz. and up	A4520
	LI-POLY 4S-5S 3700-5000mAh	
Glow	.46-.52 2 stroke	
	.52-.82 4 stroke	

Recommended

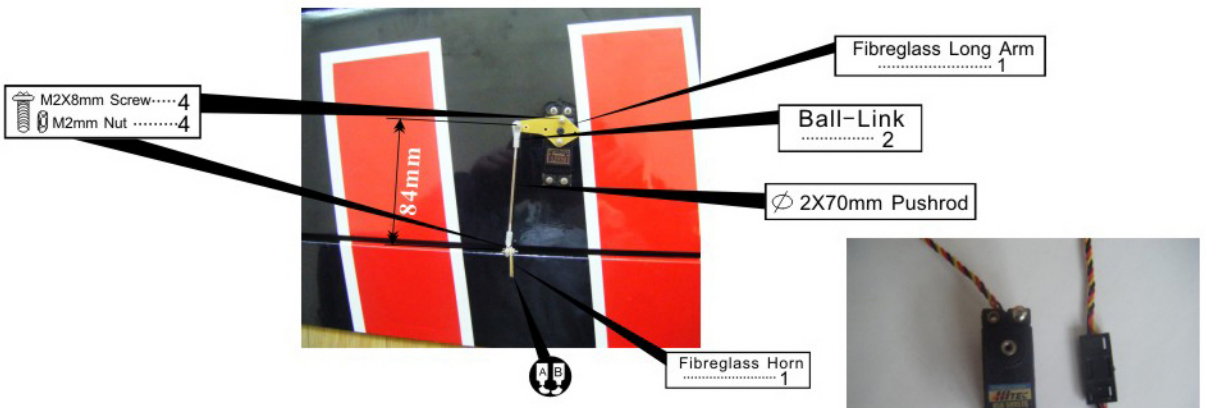
- JR systems
- JR 9X or JR 9XII
- JR PCM 10X
- Futaba systems
- Futaba 9CHPS
- 12ZAP
- 14MZA

SYMBOLS USED THROUGHOUT THE INSTRUCT ION MANUAL, COMPRIS

- Apply epoxy glue
- Ensure smooth non-binding Movement while assembling.
- Must be purchased separately!
- Apply instant glue
- Assemble left and right Sides the same way.
- Cut off shaded portion.
- Pay close attention here!
- Make hole with awl.
- Cut off excess.
- Warning! Do not over look this synbol!

Wing Assembly

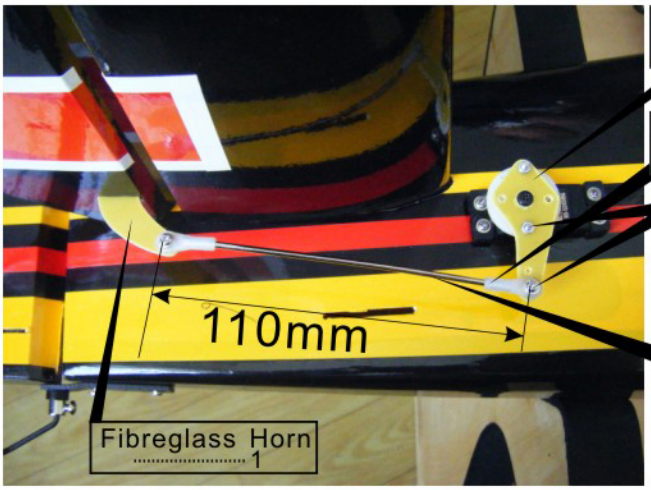
- **Aileron servo**



Elevator Assembly

Mini Servos
Hitec HS-225MG or 5245MG

Standard Servos



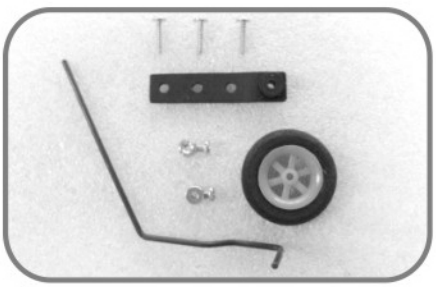
Fibreglass Long Arm 1

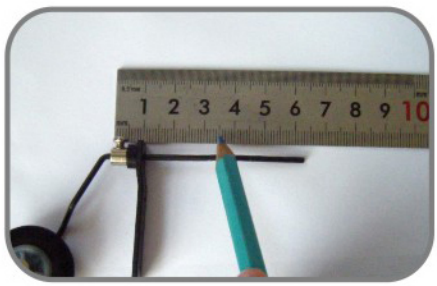
Ball-Link 2

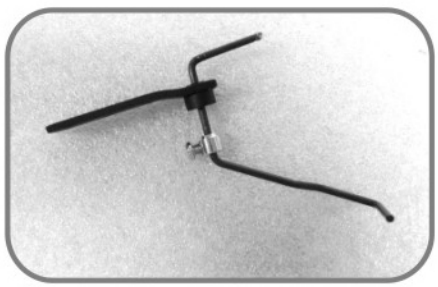
M2X8mm Screw 4
M2mm Nut 4

∅ 2X95mm Pushrod

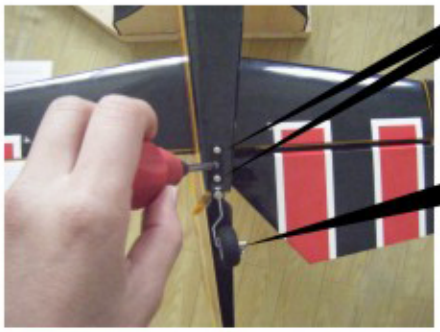
Rudder & Tail Wheel Assembly



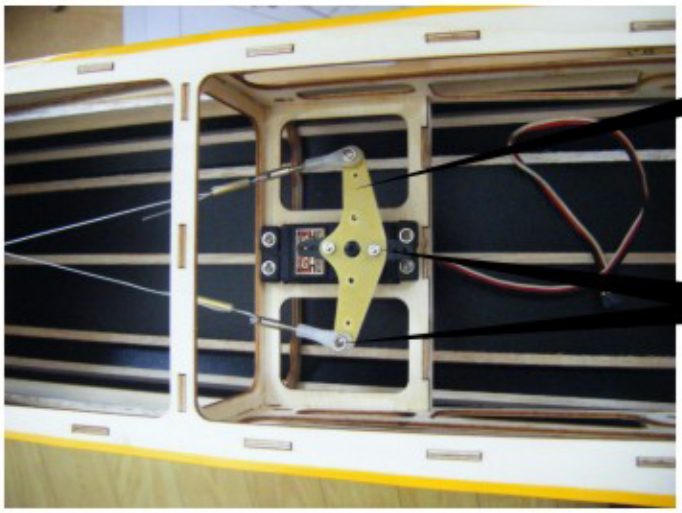


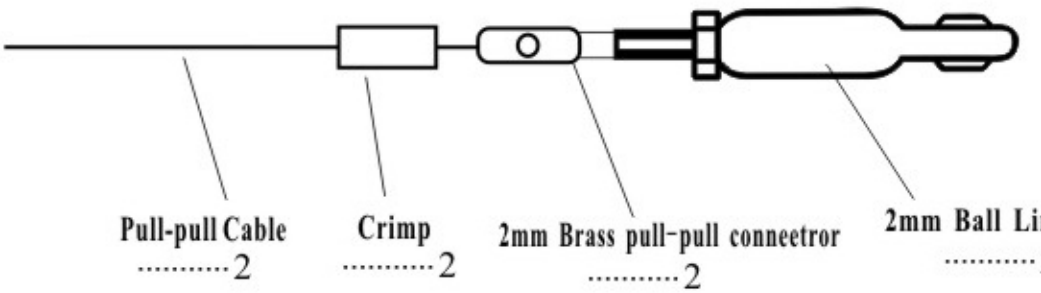


- Measure the location of hole that you need to drill on the rudder. The location is for bending tail landing gear.
- Drill a hole that fit for the tail landing gear. And make a slot which both the width and the depth are 3.5mm on the rudder.
- Let the wire through the tail landing gear mount and wheel collar.
- Measure and bend the wire to 90 degrees.

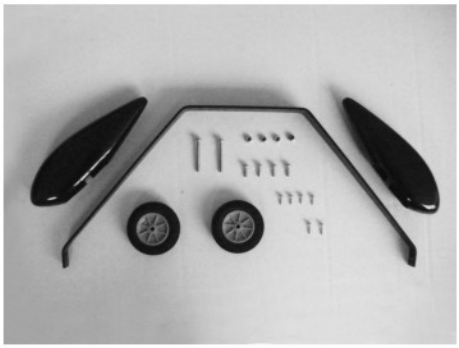


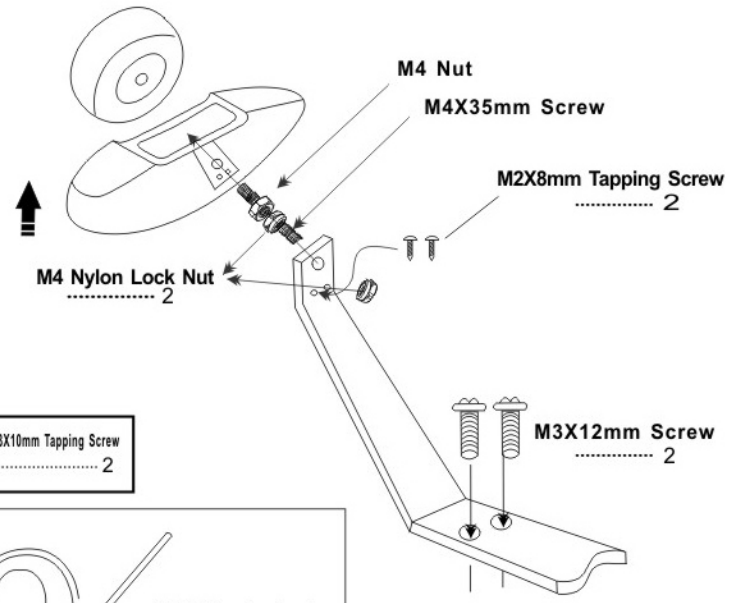
- Glue the hinge into the rudder.
- Install the tail wheel and insert the wire into the hole.
- Insert the hinge into the hinge slots. At the same time, install the tail landing gear onto the bottom of the tail.
- Secure it with glue.

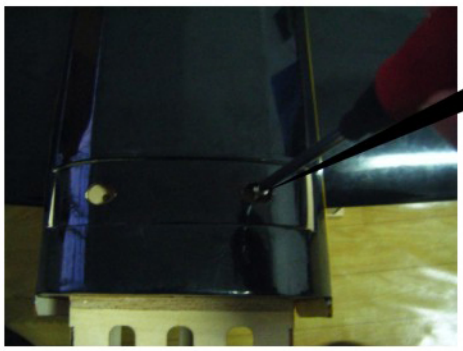


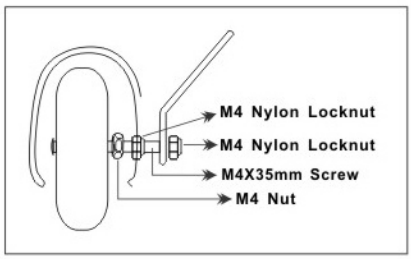


Main Landing Gear Installation



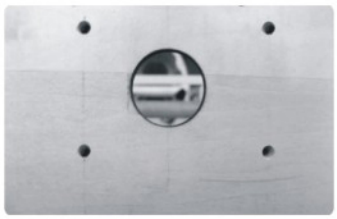


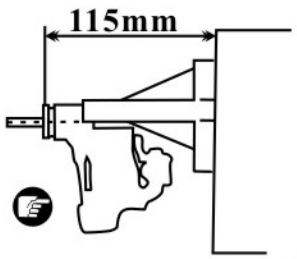


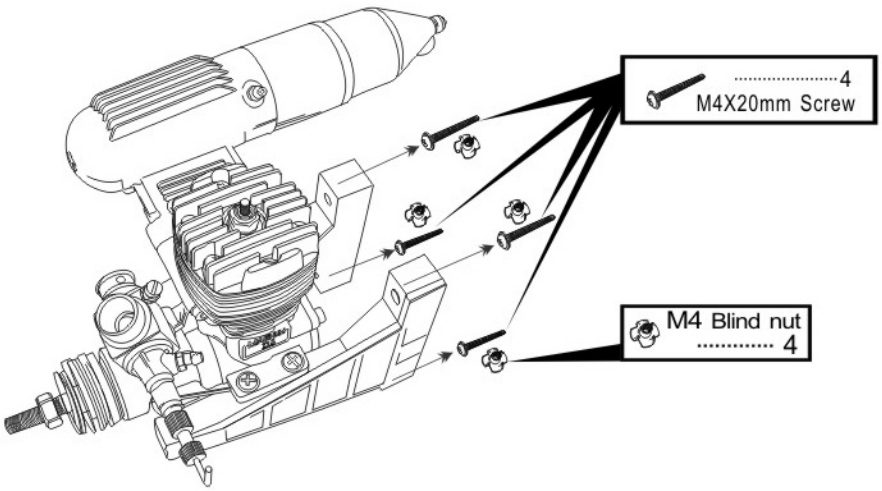


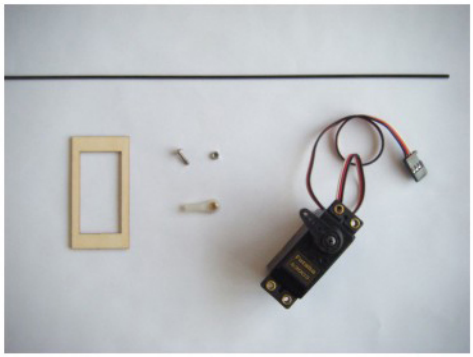
L R

Engine Installation

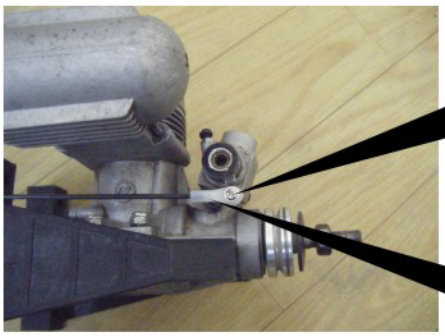






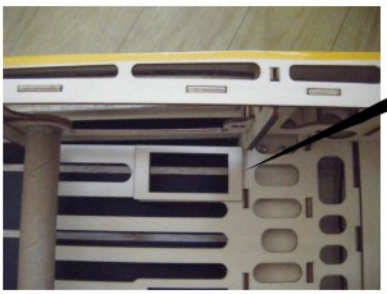


Standard Servo 1
∅2X300mm Pushrod 1
Ball Link 1
M2X8mm Screw 1
M2mm Nut 1
Nylon Straper 1

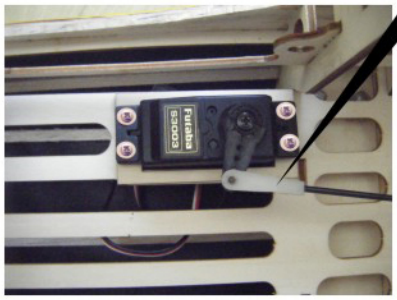


M2X8mm Screw····· 1
M2mm Nut ·····1

Ball-Link
····· 1



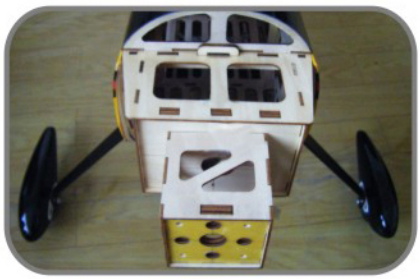
A B

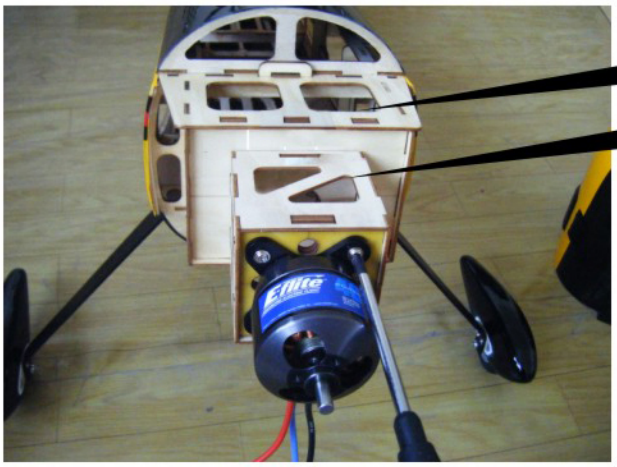


Nylon Straper
····· 1

Servo extension safety connector clip

Motor Installation

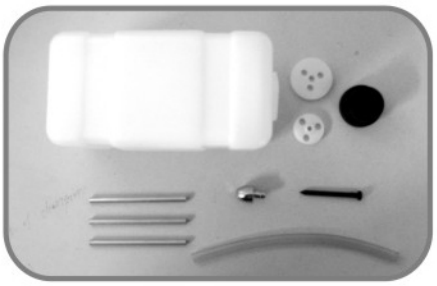




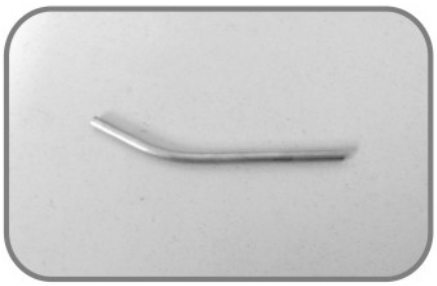
M4 Blind nut
····· 4

M4X12mm Screw

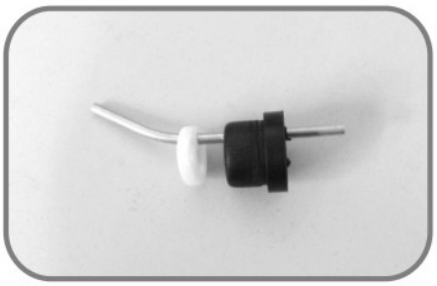
● Fuel Tank Installation



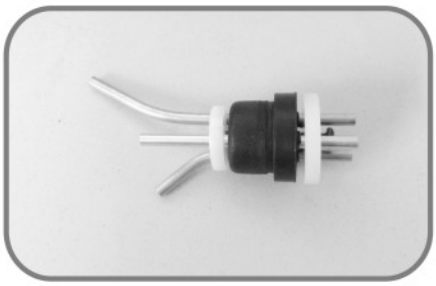
Note: The stopper provided with the model has three holes. The holes are for the fuel pickup, fill and vent lines. You can use two holes: One for the fuel pickup and one for the fuel vent. Only open the third hole if you are going to use a separate fill line.
Note for gas engines: The stopper is OK for both gas and glow, the inside fuel tubing supplied is for gas and glow. If a gasoline engine is used, you must choose the fuel tubing Tygon for all lines.



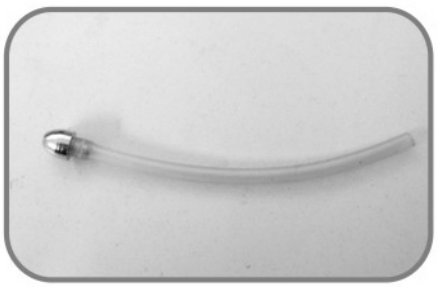
3. Bend two fuel tubes carefully to a 45-degree angle using your fingers. These will be the fuel tank fill and vent tubes. Use carefully not to kink the tube while bending.



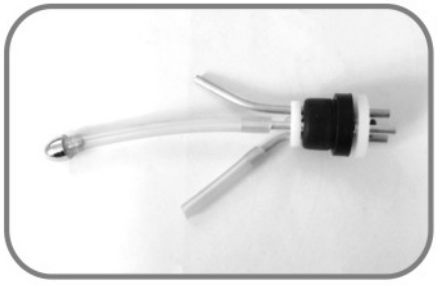
2. Locate the rubber stopper. Insert the three metal fuel tubes into the holes in the stopper so that an equal amount of tube extends from each side of the stopper. The straight tube will be the fuel tank pickup that provides fuel to the engine.



3. Slide the smaller cap over the tube on the smaller end of the rubber stopper. This end will be inserted into the fuel tank. The larger cap is placed on the side of the rubber stopper that makes the cap. Loosely install the M3 x 30 screws through the center of the stopper.



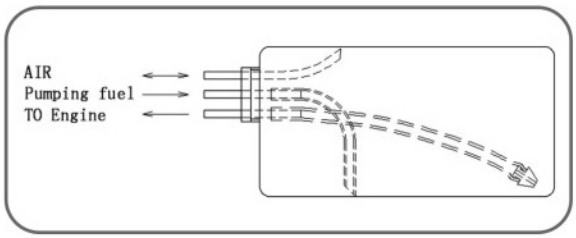
4. Locate the clear piece of Tygon or silicone fuel tubing and the fuel tank clunk. Cut the tubing to appropriate length. Install the clunk onto one end of the tygon or silicone tubing. Slide the tubing (end opposite the clunk) onto the fuel tank pickup tube (straight tube) in the stopper.



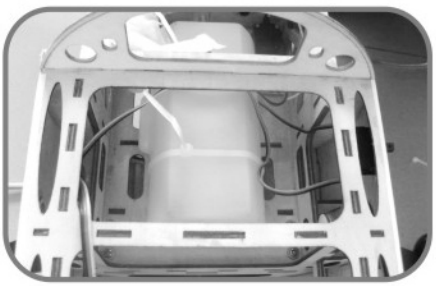
5. Slide a tubing onto the metal tube that has been bent.

6. Carefully insert the stopper assembly into the fuel tank. Note the position of the vent tube; it must be up at the top portion of the fuel tank to function properly. Also, it may be necessary to shorten the length of the fuel pickup tubing to make sure the clunk does not rub against the back of the fuel tank. You should be able to turn the tank to any attitude, and the clunk will fall to the lowest point (all directions except for having the stopper facing down).

Note the position of the fill tube; it must be down at the bottom portion of the fuel tank, then you can pick up fuel when you end your flying.

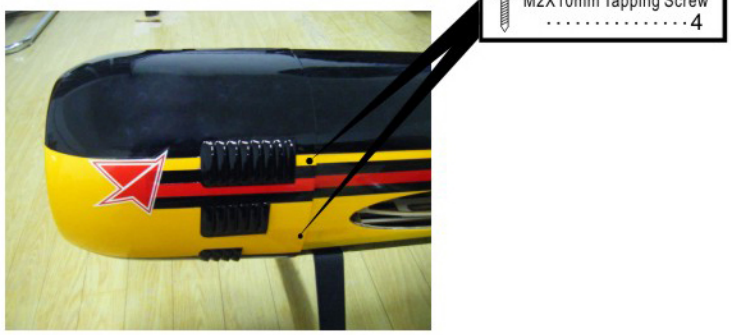


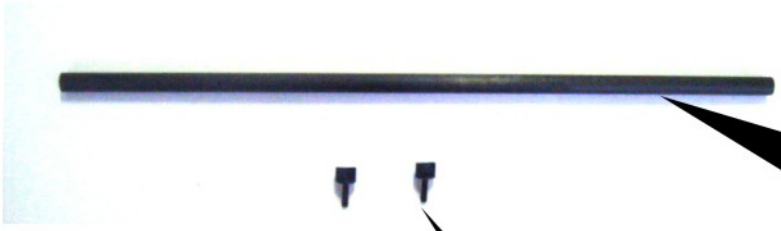
7. Tighten the M3 x 20 screw carefully-do not overly tighten. This allows the rubber stopper to form a seal by being slightly compressed, thus sealing the fuel tank opening.



- Assemble and check the fuel tank to ensure there are no leaks before installing it. Make sure you connect the three inlet/outlet tubes correctly when connecting the fuel lines.
- Bind the fuel tank with nylon strips.
- Connect the outlet fuel line with the engine, get a stopper to plug up the pumping line, fix the line of air under the bottom of engine mount.

Cowling Installation

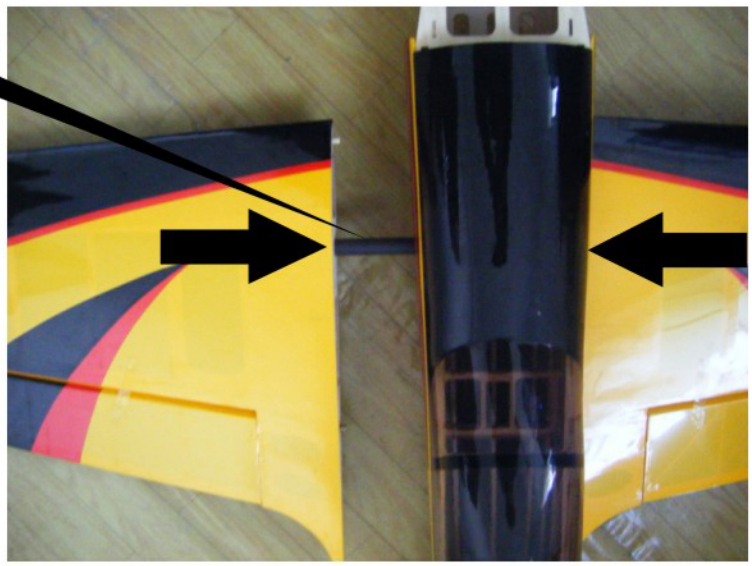




∅15X550mm
C. F. Tube

M5 Nylon Bolt
..... 2

C. F. Tube

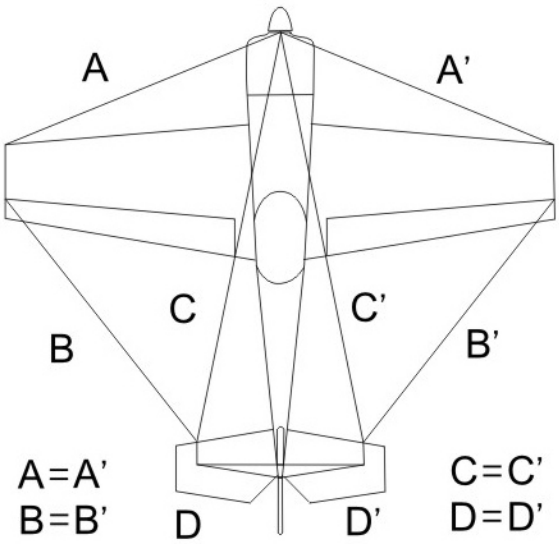


Nylon Bolt
M5*20……2

L R

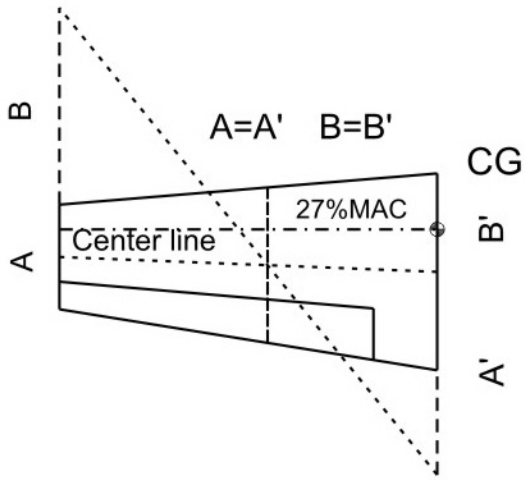
Canopy Assembly

M3X12mm Tapping Screw 2



Adjust the aircraft and make sure both of the sides symmetric. Like the diagram shown.

C. G Location



Measure the CG from the leading edge of wing root rib,Adjust the battery pack location. For CG proper position should be at 27%MAC.This recommendation balance point is for your first flights. The CG can be moved around later to fit your personal taste.

PLANE	EDGE540	EXTRA260	EXTRA330L	MX2	YAK54
27%MAC CG Location:	3-1/4″ 82mm	4-1/4″ 108mm	4-1/8″ 105mm	4-1/8″ 105mm	4-1/8″ 105mm

PLANE	YAK55M	SU26M	RAVEN	KATANA	
27%MAC CG Location:	4-1/4″ 108mm	4″ 102mm	3-1/2″ 89mm	4-1/8″ 105mm	

1. Check every angle and adjust them to correct position.
2. Check all parts and make sure the installation is firm and reliable.
3. Add some weight in either of wingtip to balance the left and right wings.

Power on to trim your plane.

1. Range check the radio (test whether the Engine/Motor is running or not).
2. Ensure that the servos and control surfaces move smoothly and are in the correct direction.
3. Adjust the servo throw. The chart below is the recommended throws for the first flight. You can adjust the servo arms and control horn length later to fit your flying style.

Control Throw:

	Surface	Throws	Exp
Common flying	Aileron	20 degrees	25%
	Elevator	20 degrees	25%
	Rudder	30 degrees	30%
3D flying	Aileron	45 degrees	50%
	Elevator	45 degrees	50%
	Rudder	45 degrees	50%

Trail run the Engine to check its stability at high speed and low speed to ensure there are no problems with vibration on the model. Run the motor at high speed about 30 seconds, check the Engine and make sure the temperature is below the prescription of manufacturer. Once everything is right… …

SU26M
SUKHOI
SU26M

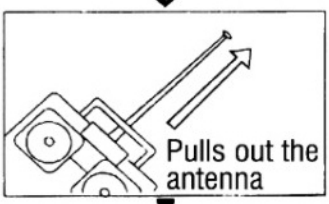
Flight operates order

before the flight

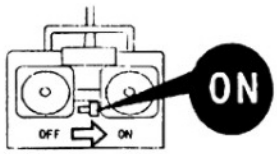
Must choose a big location, don't have to approach the high tension cable, big building and airport

Please confirm the propeller and the spinner all already by the safe locking

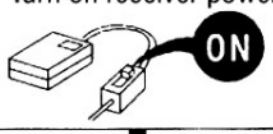
Please confirm does not have the same frequency radio disturbance Before the flight, otherwise will create the serious accident

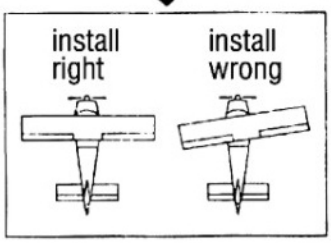


Turn on ransmitter power

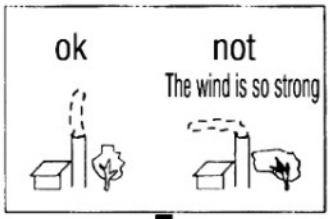


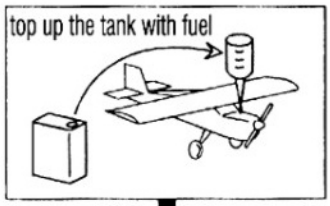
Turn on receiver power

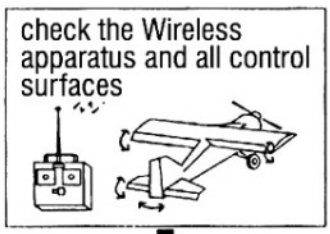


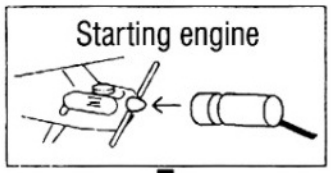


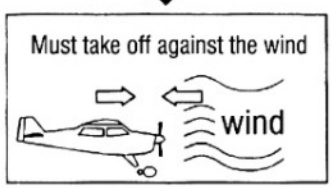
flighting



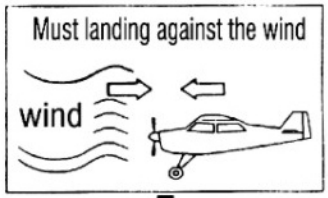


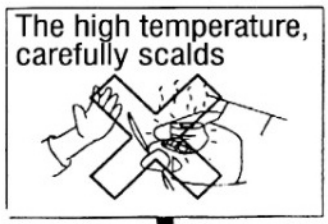


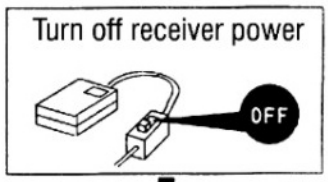


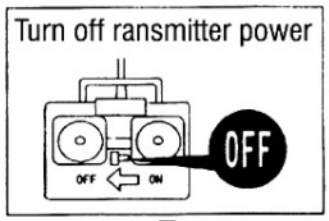


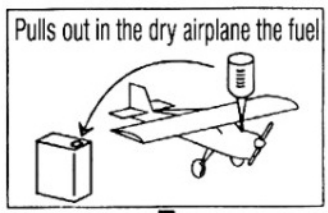
after the flight



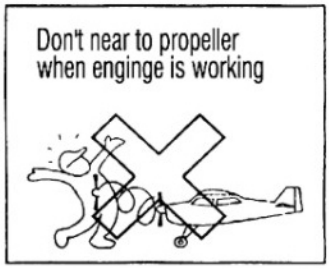


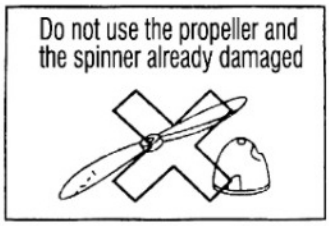


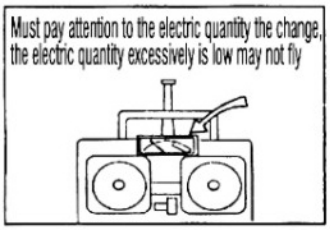


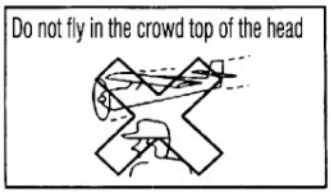


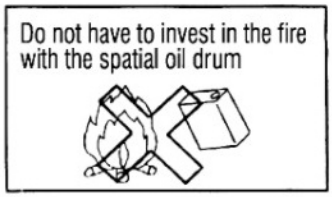
Safe Warning!











ZHUHAI HYX AIRCRAFT MODEL CO.,LTD

Address: No.33,Western Jinfeng Rd,Jinding science and technology Zone,Zhuhai,China

Postcode: 519085 Tel:86-756-3666179

Info email: skylinerc@163.com

sales@skyline-rc.com