

GASOLINE POWERED



30CC II SERIES

EXTRA300LP/YAK54/YAK55SP/SUKHOI SU26M

/SUKHOI SU29/MX2/YAK55M/RAVEN/SBACH342

..... **ALMOST-READY-TO-FLY**



Assembly Manual

Congratulations on purchasing this excellent almost-ready to fly R/C Model!! This ARF adopts the latest 3D design features and emphasizes high performance, light weight and fun. This plane is designed by professional engineers and built by skilled craftsmen. Many of the parts are already pre-installed for you!

REQUIRED FOR OPERATION

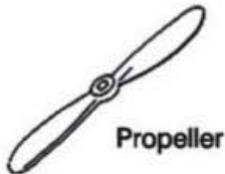
1 Wireless apparatus

This airplane model should use 6 channels or the above airplane model special-purpose remote control device 6 servos, please do not have to use car and the ship model remote remote control device



2 Engine system

Use model special-purpose engine
Engine: 26-35CC



Propeller



Fuel pipe

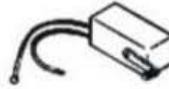


SPINNER



Filters the mouth

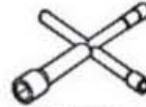
3 Flying and Starting supplies



Fuel pipe



Fuel



Trigger



Absorption of shock sponge

4 Glue

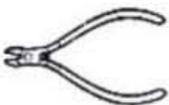


Instant Glue

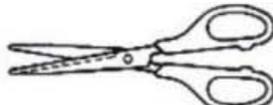


AB epoxy glue

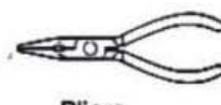
TOOLS REQUIRED



Slanting cuts



Scissors



Pliers



Iron



Drill bit



Knife



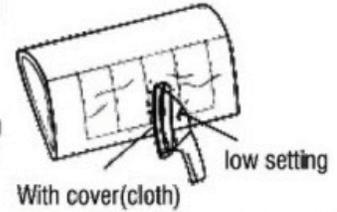
Screwdriver



Adhesive tape

BEFORE 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
- Complete with accessories
- Low wing loading makes it easy to fly
- High performance hardware including:
 - 2. 5mm Ball linkage control system
 - Advanced rubber wheels
 - One piece 6061 T-6 Anodized Aluminum landing gear
- Servo extension safety connector clips included
- Carbon fiber wing tube
- Carbon fiber tail wheel assembly
- Anodized aluminum Long servo arms included
- Scale canopy
- Fixed ring inside cowling for easy build
- Pre-hinged control surfaces ready to fly
- Pre-mounted and plumbed gasoline tank ready to fly
- Light weight construction with high structural strength
- Excellent aerobatics and 3D performance
- Two pieces removable wings
- Aerofoil tail wings
- Powered by Electric /Glow or Gasoline
- Pre-installed servo wire tube
- Genuine Oracover film

Specification :

	EXTRA300LP	SBACH342	YAK54	YAK55SP
Wing Span:	73"(1860mm)	73"(1860mm)	73"(1860mm)	73"(1860mm)
Length:	67"(1700mm)	67"(1700mm)	67"(1700mm)	67"(1700mm)
Wing Area:	1000sq. in(64. 5sq. dm.)	1014sq. in(65. 4sq. dm.)	1020sq. in(65. 8sq. dm.)	1022sq. in(65. 9sq. dm.)
Flying Weight:	9. 7-11lbs(4400-5000g)	9. 7-11lbs(4400-5000g)	9. 7-11lbs(4400-5000g)	9. 7-11lbs(4400-5000g)

SUKHOI SU26M	SUKHOI SU29	Mx2	YAK55M	RAVEN
73"(1860mm)	73"(1860mm)	73"(1860mm)	73"(1860mm)	73"(1860mm)
68"(1730mm)	68"(1730mm)	67-1/2"(1720mm)	67-1/2"(1720mm)	67-1/2"(1720mm)
1026sq. in(66. 2sq. dm.)	1026sq. in(66. 2sq. dm.)	1022sq. in(65. 9sq. dm.)	1023sq. in(66sq. dm.)	1023sq. in(66sq. dm.)
9. 7-11lbs(4400-5000g)	9. 7-11lbs(4400-5000g)	9. 7-11lbs(4400-5000g)	9. 7-11lbs(4400-5000g)	9. 7-11lbs(4400-5000g)

Additional Required Equipment

Radio Equipment

- 6-channel radio system
- 1 standard servo for throttle
- 4-5 hi-torque servos

Recommended engines

- Gasoline:26-35CC
- 2-Stroke:.90-1.20
- 4-Stroke:1.10-1.40

Recommended

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

SYMBOLS USED THROUGHOUT THE INSTRUCTION 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.



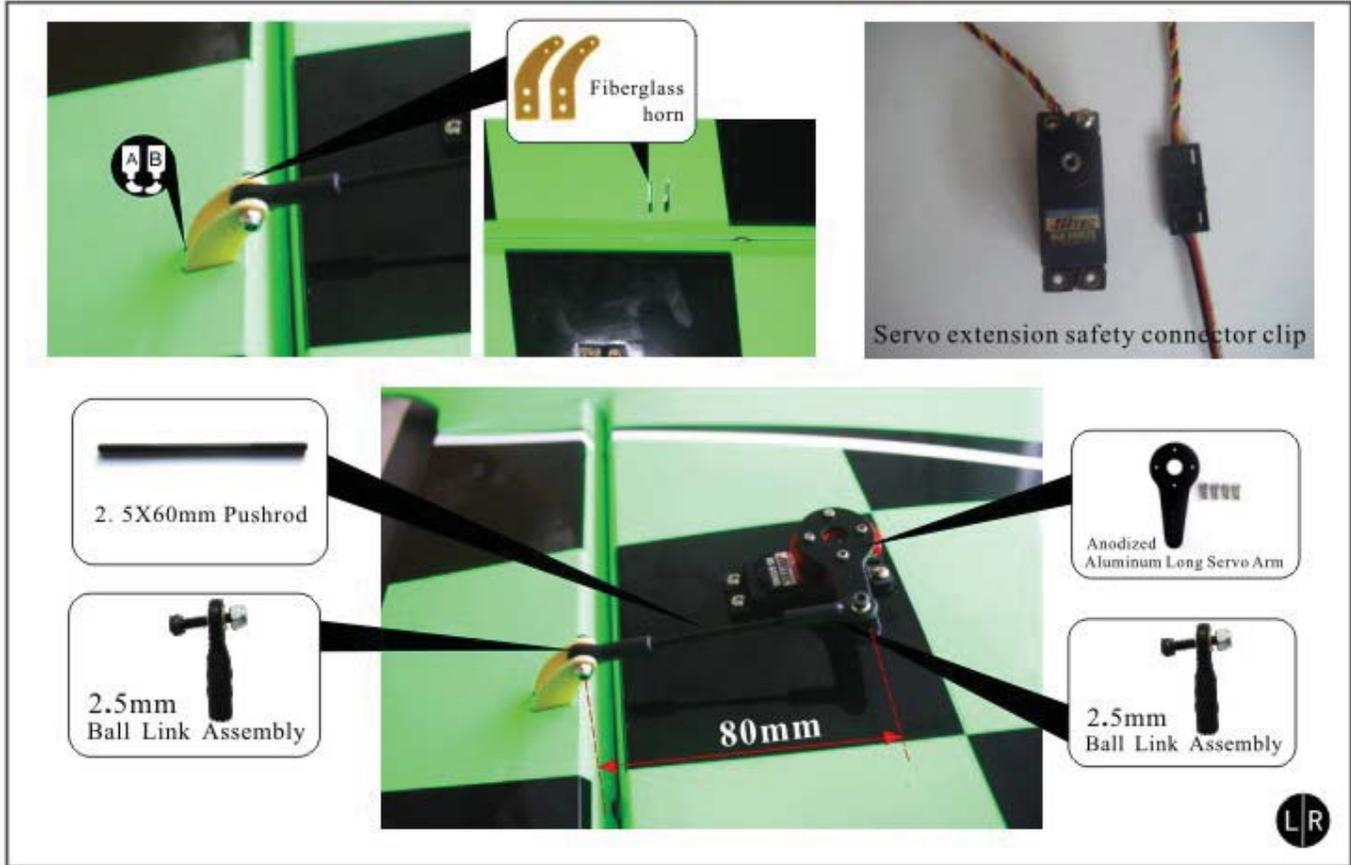
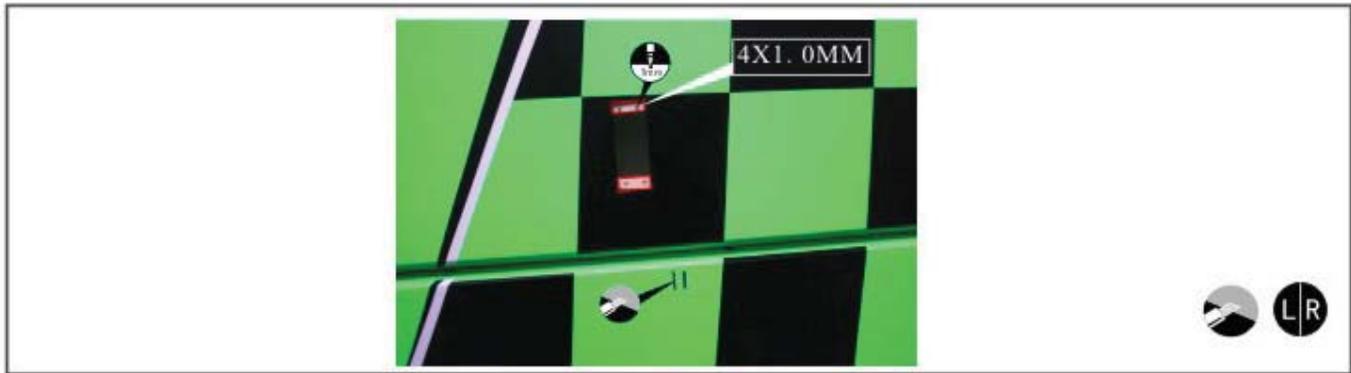
Warning!

Do not overlook this symbol!

Wing Assembly



Pre-hinged control surfaces ready to fly



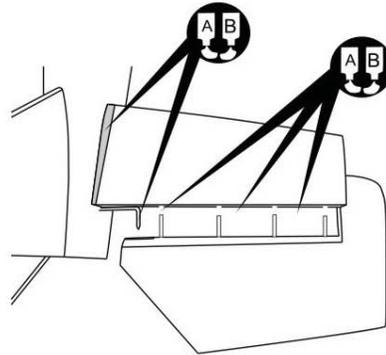
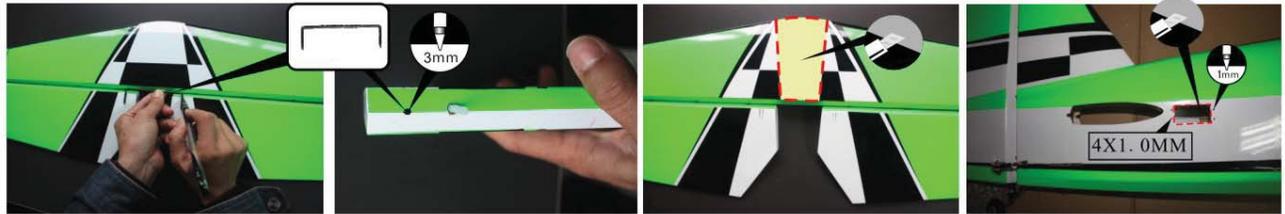
Elevator Assembly



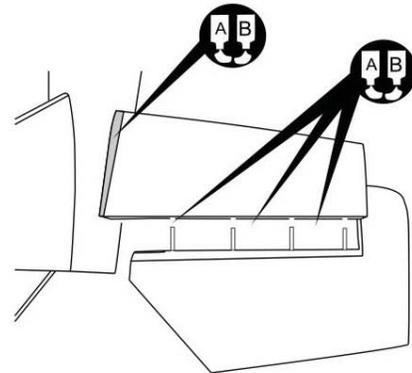


Pre-hinged control surfaces ready to fly

One Servo



Two Servos



LR

2. 5X110mm/120mm Pushrod

Fiberglass horn

2. 5mm Ball Link Assembly

Anodized Aluminum Long Servo Arm

Servo extension safety connector clip

LR

Rudder Assembly

This section shows the components and assembly steps for the rudder. On the left, a collection of parts is laid out, including two long black rods, a black curved servo arm, four brass connectors, two crimp sleeves, two coils of pull-pull cable, and two curved fiberglass horns. The top right features two 3D cutaway diagrams of the rudder assembly, with callouts 'A' and 'B' indicating the servo arm and horn positions. The bottom center is a photograph of the rudder being installed on a boat's hull, with callouts for 'Pull-pull Cable', 'Crimps', and 'Dual Fiberglass horn'. To the right of the photo are two inset boxes: one showing the 'Dual Fiberglass horn' and another showing a '2.5mm Brass Pull-pull Connector'. A circular 'LR' logo is in the bottom right corner.

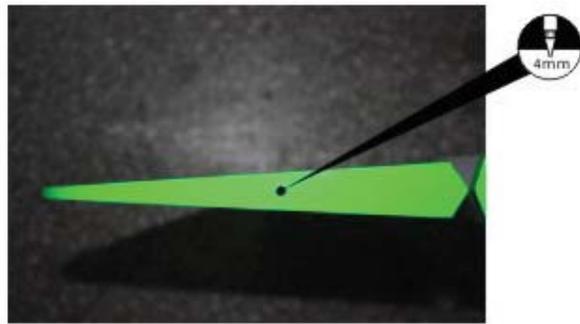
This section provides a detailed view of the rudder assembly and a parts list. The top part is a photograph of the rudder mounted on the hull, with callouts for 'Pull-pull Cable' and 'Crimps'. To the right are two inset boxes: one showing a '2.5mm Brass Pull-pull Connector' and another showing an 'Anodized Aluminum Dual Servo Arm'. Below the photo is a schematic diagram of the assembly, showing the cable, crimp, connector, and ball link. A parts list at the bottom identifies the components and their quantities:

- Pull-pull Cable 2
- Crimp 2
- 2.5mm Brass pull-pull connector 2
- 2.5mm Ball Link 2

Carbon Fiber Tail Wheel Installation



Carbon fiber tail wheel Assembly



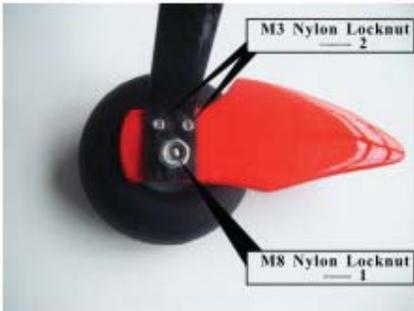
2mm Ball Link

M3X12mm
Tapping Screw..... 2

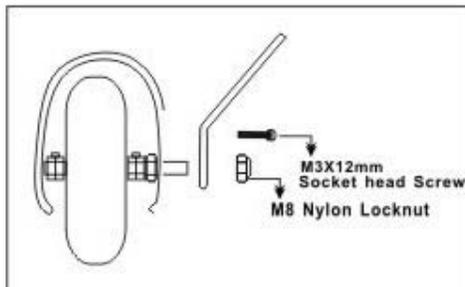
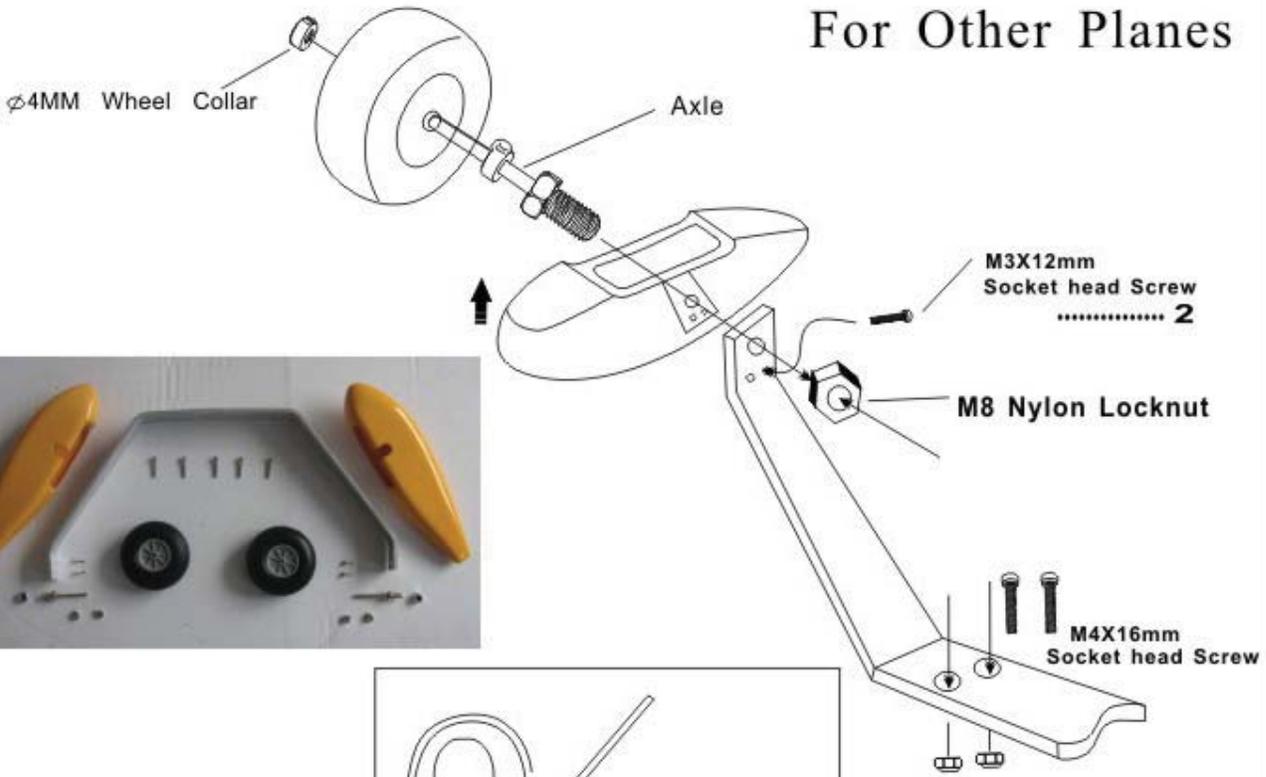


Main Landing Gear Installation

✂ For YAK54\YAK55SP\YAK55M



For Other Planes



Engine Installation



- Mark the centerline on the firewall for the engine. Note: the vertical centerline is offset to the right side of center as viewed from the front due to the built-in right-thrust. These will be necessary no matter what engine you choose to install.



- Drill the installation holes on the firewall. If you intend to install nitro engine, you need to install the engine mount on the firewall with screws first.
- Drill holes on the engine mount and firmly fasten the screws on the mount.



- Measure the length of the cowling and decide where to install the engine. Let the propeller drive washer come out 2mm from the cowling in the front.

- If you are installing a gasoline engine, drill holes in the firewall and then fasten the supplied screws from the back of the firewall. Make sure the engine is fixed firmly and then apply "thread lock" glue on the bolts.
- Install the Ignition.

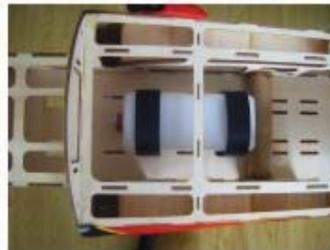
Canister Installation



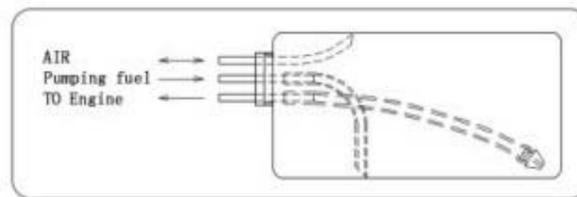


- Standard Servo 1
- ∅2X300mm Pushrod 1
- 2mm Ball Link 1
- M2X8mm Screw 1
- M2mm Nut 1
- Nylon Straper 1

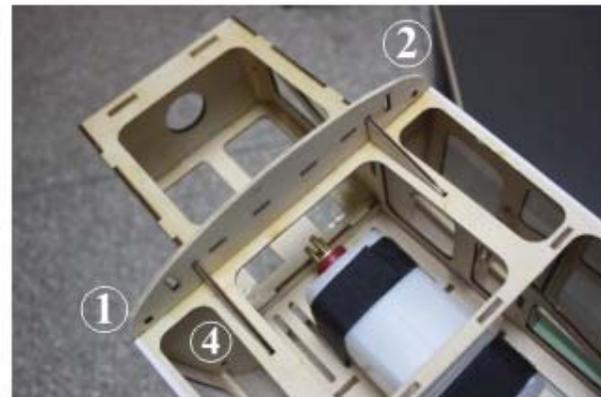
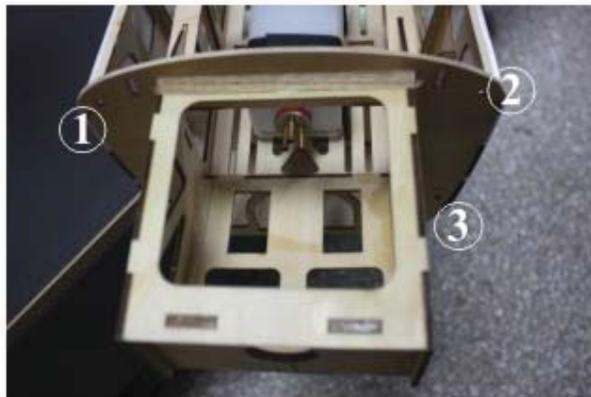
Fuel Tank Installation



Pre-mounted gasoline tank ready to fly



Cowling Installation



Fixed ring inside cowling for easy build

- ①
- ②
- ③
- ④



M3X16mm Screw
..... 4

Wing Nylon Bolt
 2



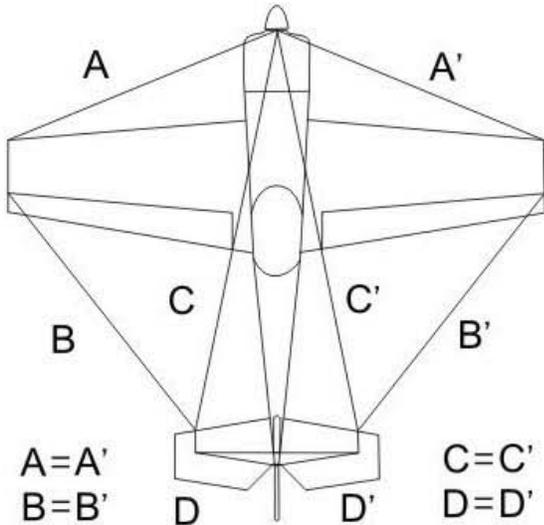
LR

Canopy Assembly



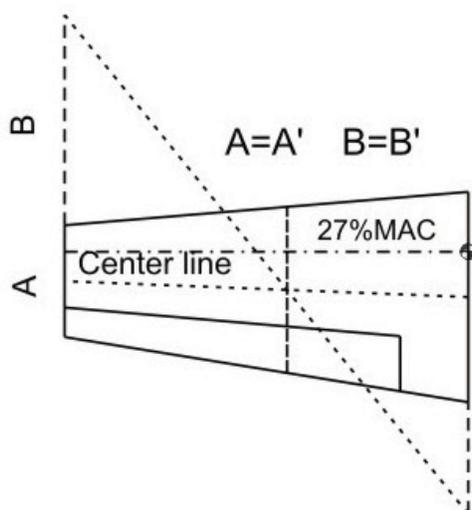
 **M3X16mm Screw**
 2

LR



Adjust the aircraft and make sure both sides are symmetrical. Like the diagram shown. So that the plane is ready for flight.

C. G Location



CG Measure the CG from the leading edge of wing against the fuselage, 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	EXTRA300LP	SBACH342	YAK54	YAK55SP	SUKHOI SU26M
27%MAC CG Location:	113mm 4-7/16inch	124mm 4-7/8inch	131mm 5-1/6inch	131mm 5-1/6inch	116mm 4-9/16inch
PLANE	SUKHOI SU29	Mx2	YAK55M	RAVEN	
27%MAC CG Location:	116mm 4-9/16inch	121mm 4-3/4inch	127mm 5inch	105mm 4-1/8inch	

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	15-25 degrees	15-25%
	Elevator	15-25 degrees	15-25%
	Rudder	25-35 degrees	20-30%
3D flying	Aileron	40-45 degrees	45-60%
	Elevator	40-45 degrees	45-60%
	Rudder	40-55 degrees	45-60%

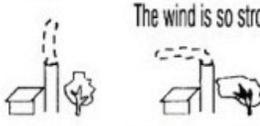
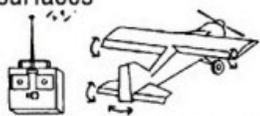
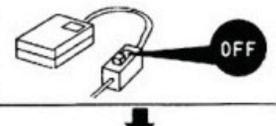
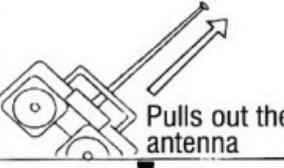
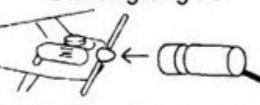
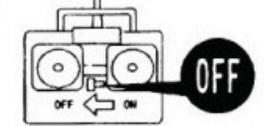
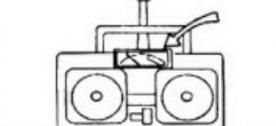
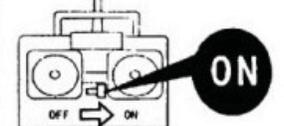
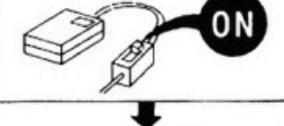
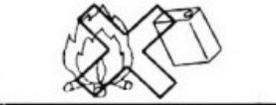
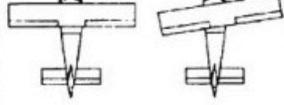
Trial run the Engine to check its stability at high speed and low speed to ensure there are no problems with vibration on the model. Run the motor at high speed about 30 seconds , check the Engine and make sure the temperature is below the prescription of manufacturer. Once everything is right... ..

Good luck & Have fun!





Flight operates order

before the flight	flighting	after the flight	⚠ Safe Warning!
<p>Must choose a big location, don't have to approach the high tension cable, big building and airport</p>	<p>ok not The wind is so strong</p> 	<p>Must landing against the wind</p> 	<p>Don't near to propeller when engine is working</p> 
<p>Please confirm the propeller and the spinner all already by the safe locking</p>	<p>top up the tank with fuel</p> 	<p>The high temperature, carefully scalds</p> 	<p>Make sure nobody and other obstacles of front</p> 
<p>Please confirm does not have the same frequency radio disturbance Before the flight, otherwise will create the serious accident</p>	<p>check the Wireless apparatus and all control surfaces</p> 	<p>Turn off receiver power</p> 	<p>Do not use the propeller and the spinner already damaged</p> 
<p>Pulls out the antenna</p> 	<p>Starting engine</p> 	<p>Turn off ransmitter power</p> 	<p>Must pay attention to the electric quantity the change, the electric quantity excessively is low may not fly</p> 
<p>Turn on ransmitter power</p> 	<p>Adjustment Needle</p> 	<p>Pulls out in the dry airplane the fuel</p> 	<p>Do not fly in the crowd top of the head</p> 
<p>Turn on receiver power</p> 	<p>Must take off against the wind</p> 	<p>Deletes the greasy dirt</p> 	<p>Do not have to invest in the fire with the spatial oil drum</p> 
<p>install right install wrong</p> 			



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