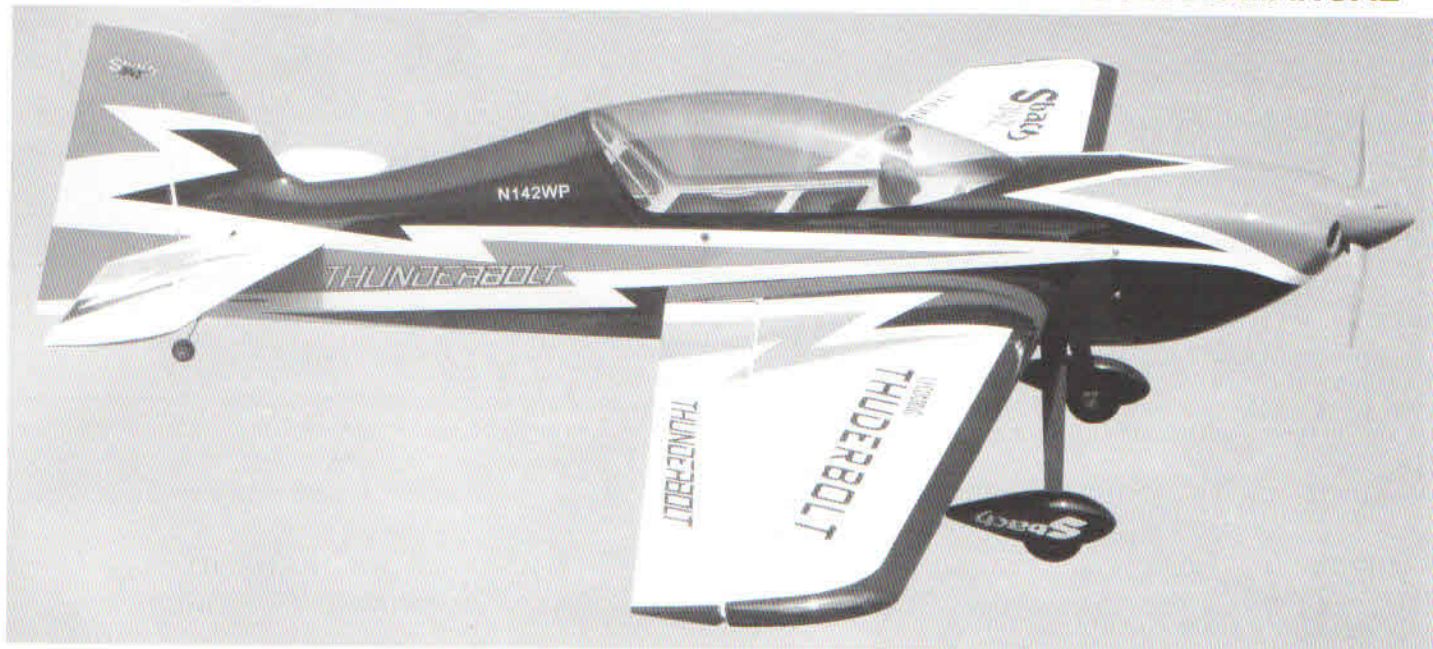


# 30 CC Size Series

EXTRA 300LP / YAK 54 / YAK 55 M / YAK55SP / SUKHOI SU26M / SBACH 342  
SUKHOI SU29 / MX 2 / MXS - R / RACE EDGE540 / THUNDER BIRD / KATANA  
INSTRUCTION MANUAL



## Specifications



	EXTRA 300LP	YAK 54	YAK 55 M	YAK55SP
Wing Span:	73" (1860mm)	73" (1860mm)	73" (1860mm)	73" (1860mm)
Fuselage Length:	67" (1700mm)	67" (1700mm)	67.5" (1720mm)	67" (1700mm)
Wing Area:	1000sq.in(64.5sq.dm)	1020sq.in(65.8sq.dm)	1023sq.in(66sq.dm)	1020sq.in(66sq.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	SBACH 342	MX 2
Wing Span:	73" (1860mm)	73" (1860mm)	73" (1860mm)	73" (1860mm)
Fuselage Length:	68" (1730mm)	68" (1730mm)	67." (1700mm)	67.5" (1720mm)
Wing Area:	1026sq.in(66.2sq.dm)	1026sq.in(66.2sq.dm)	1014sq.in(65.4sq.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)
	MXS - R	RACE EDGE540	KATANA	THUNDER BIRD
Wing Span:	75.5" (1920mm)	75.2" (1910mm)	73" (1860mm)	73" (1860mm)
Fuselage Length:	69.5" (1765mm)	73" (1860mm)	67." (1700mm)	67.5" (1720mm)
Wing Area:	1034sq.in(66.7sq.dm)	1026sq.in(66.2sq.dm)	1014sq.in(65.4sq.dm)	1023sq.in(66q.dm)
Flying Weight:	9.7-11lbs(4500-5100g)	9.7-11lbs(4400-5000g)	9.7-11lbs(4400-5000g)	9.7-11lbs(4400-5000g)



# Warning!

This model is not a toy.

It is designed for maximum performance. Please seek advice if one is not familiar with this kind of engine powered precision model. Operating this model without prior preparation may cause injuries. Remember, safety is the most important thing.

Always keep this instruction manual at hand for quick reference.

## **BEFORE YOU BEGIN**

- 1 Read through the manual before you begin, so you will have an overall idea of what to do.
- 2 Check all parts, if you find any defective or missing parts contact your local dealer.
- 3 Symbols used throughout this instruction manual comprise of the following:

**AB** Apply epoxy glue.

**L/R** Assemble left and right sides the same way

 Peel off shaded portion covering film

 Drill holes with the specified diameter (here: 3mm)

 Pay close attention here!

 Pierce the shaded portion covering film.

**C.A** Apply instant glue (C.A.glue, super glue.)

 Ensure smooth non-binding movement while assembling

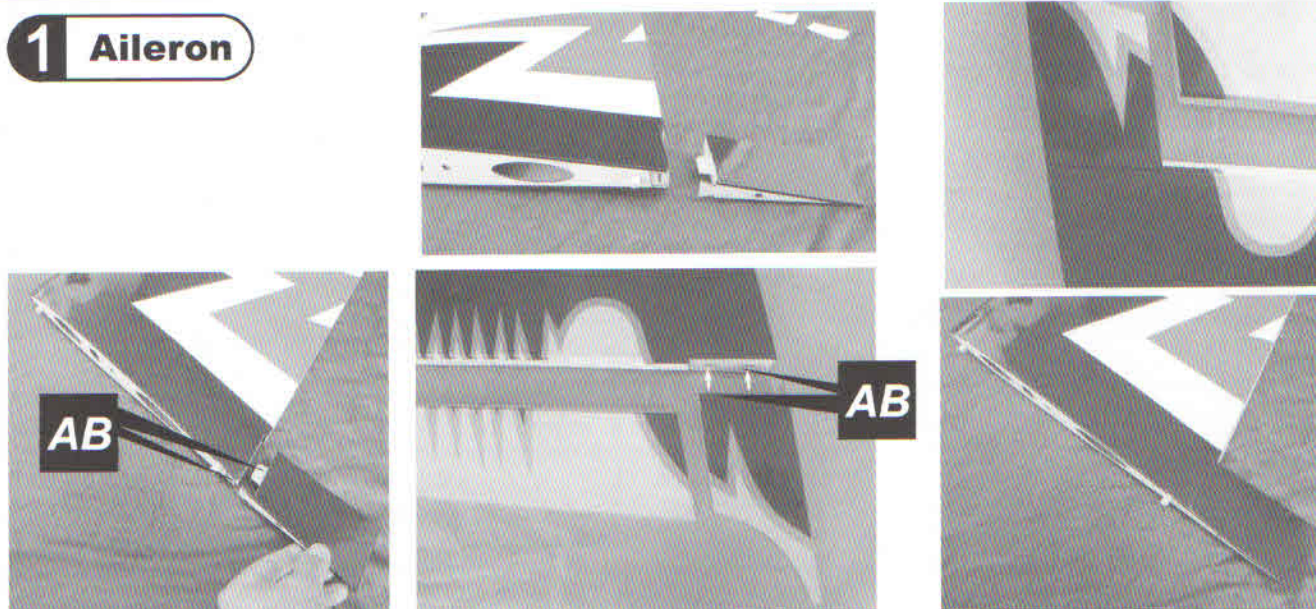
 Cut off shaded portion.

**N.I.** Must be purchased separately!

 **Warning!**

Do not overlook this symbol!

### **1 Aileron**

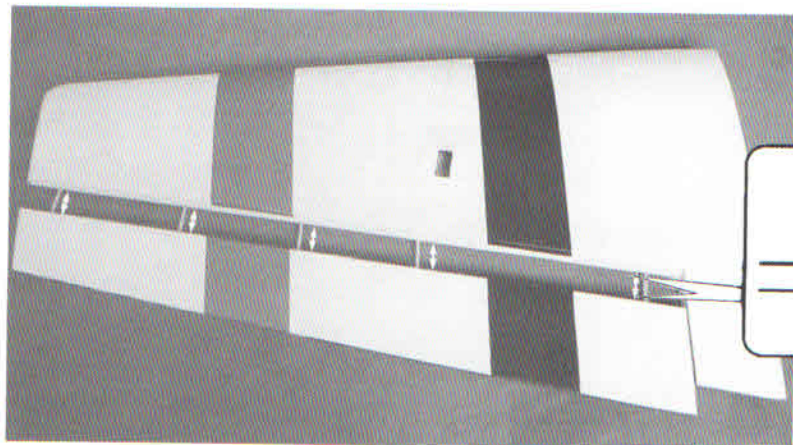




## 2 Aileron

M2.5x12mm Screw — 4  
 2.5mm Nylon insert lock Nut — 4

Peel off the covering film at servo's position by professional tool so that you can find the wing servo's right position. Aileron and two points' hinges of wing span are connected by AB glue. So that Aileron can be flexibly moved up and down.

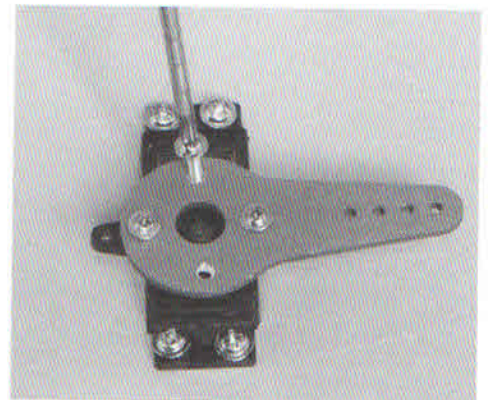
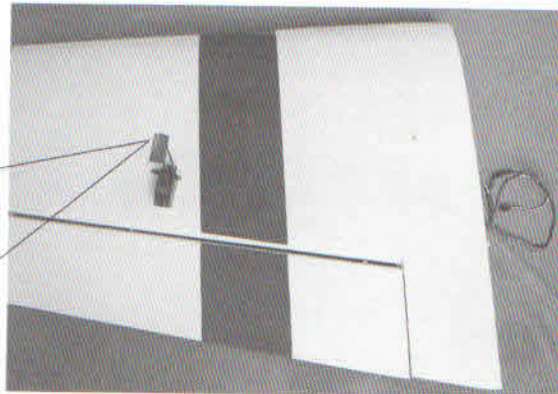
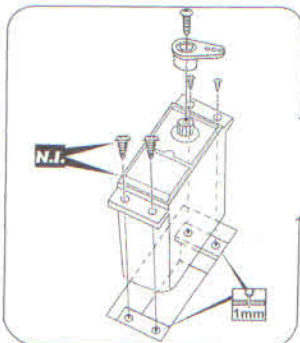


L/R

## 3 Main Wing

PWA2X8 mm Screw — 8

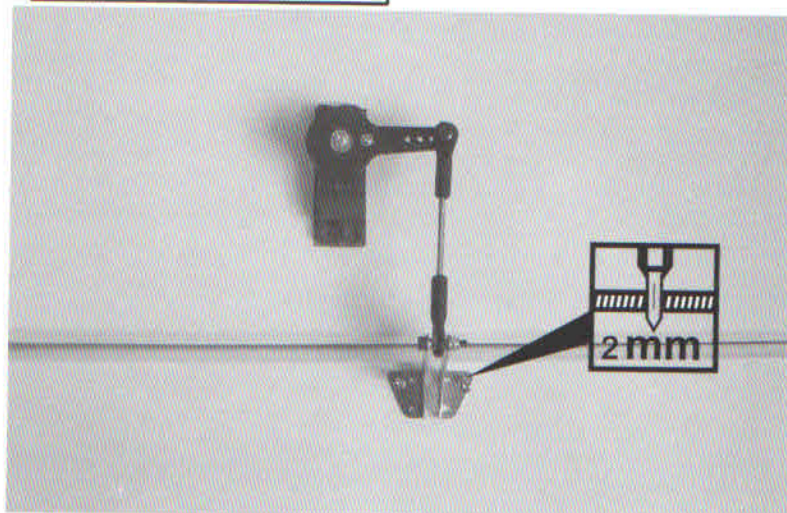
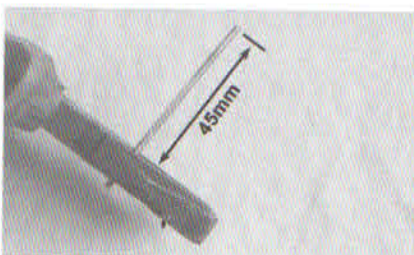
Please install the servo into wing span just like the picture shown



L/R

## 4 Main Wing

PA2.6X23 mm Screw — 12



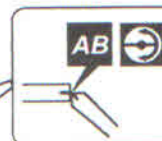
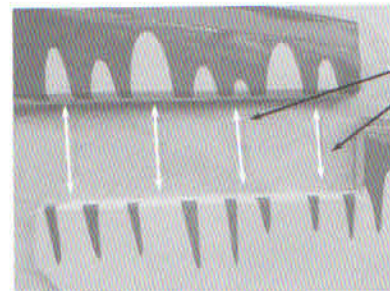
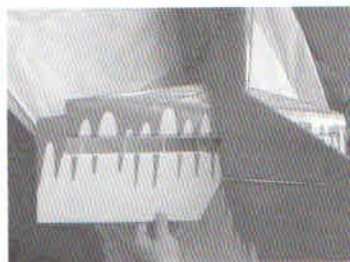
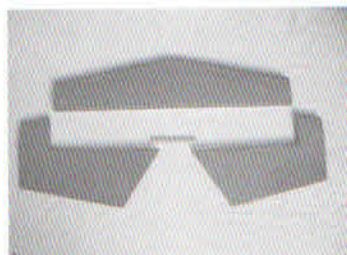
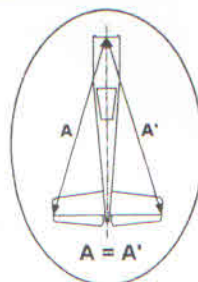
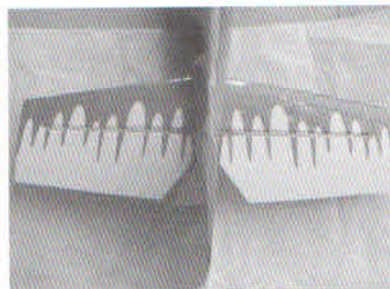
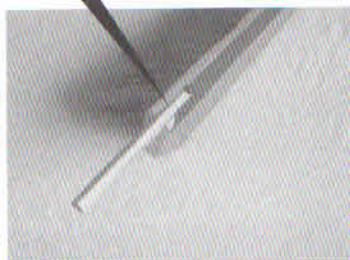
L/R



## 5 Stabilizer



AB



L/R

## 6 Stabilizer / Elevator

M2.5x12mm Screw

2

2.5mm Nylon insert lock Nut

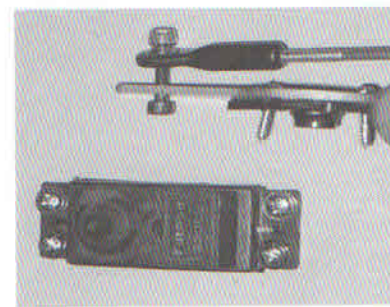
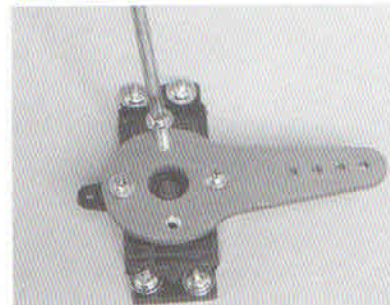
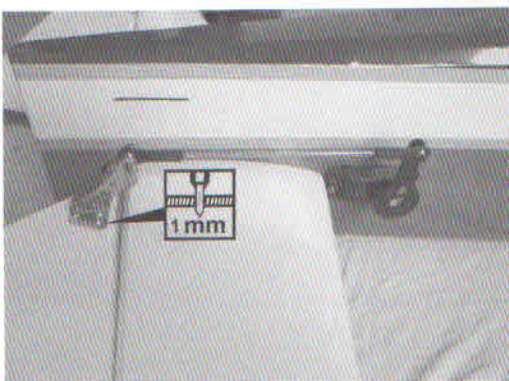
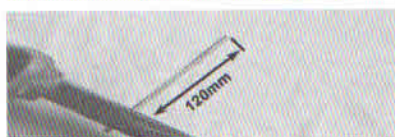
2

PA2.6X23 mm Screw

6

PWA2X8 mm Screw

4



## 7 Vertical Fin / Rudder



Gather the rudder, four hinges and epoxy materials as shown. Use 5-10 minute epoxy to ensure adequate working and cleanup time.

Carefully slide the rudder onto each hinge and against the trailing edge of the fin. Wipe away excess epoxy with alcohol wetted wipes. Ensure there is no gap between fin and rudder.



L/R



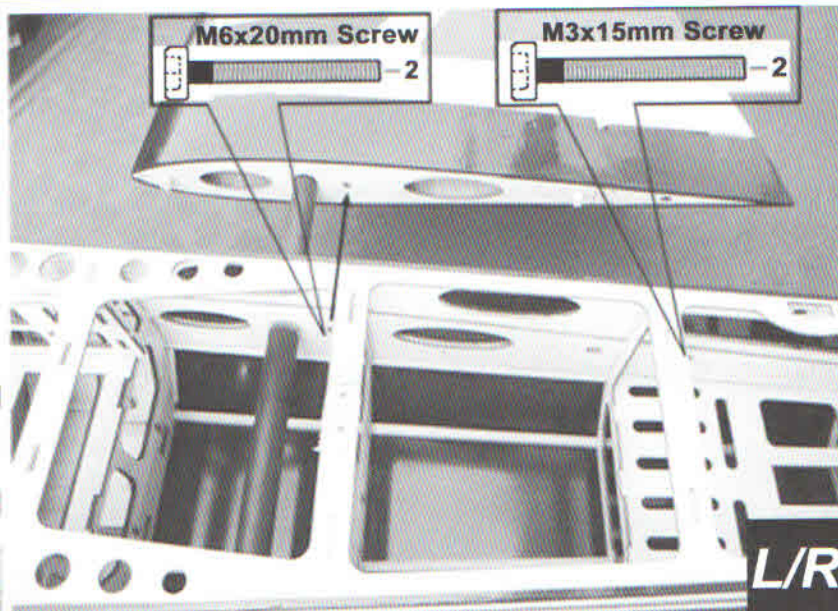
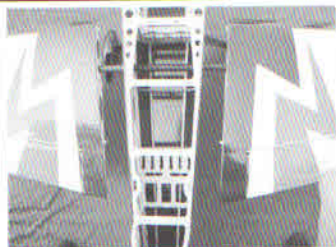
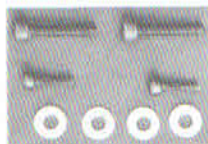




## 11 Man Wing Linkage

Wing Joiner: D15X618MM X 1PC

M6X20mm Screw 2pcs  
M3X15mm Screw 2pcs  
2mm Washer 4pcs

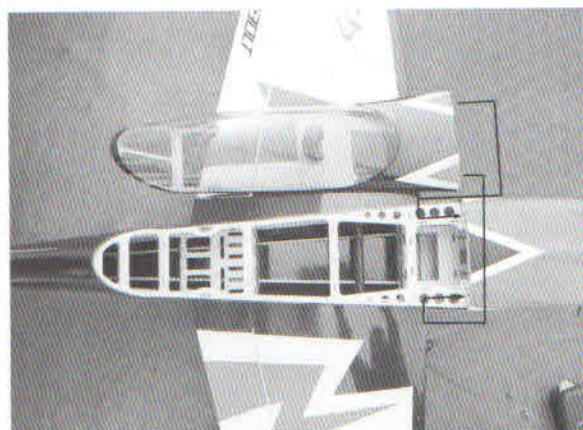


## 12 Canopy

pilot



M3 x 15 mm Screw - 2



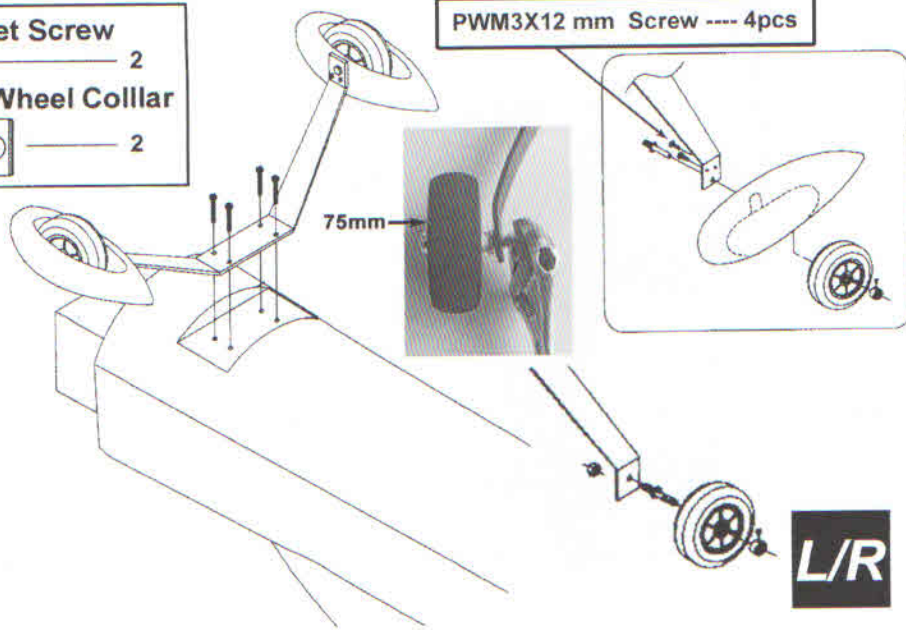
## 13 Landing Gear

PWM4X20 mm Screw - 4

3mm Set Screw - 2

4.1mm Wheel Collar - 2

PWM3X12 mm Screw - 4pcs





## 14 Fuel Tank

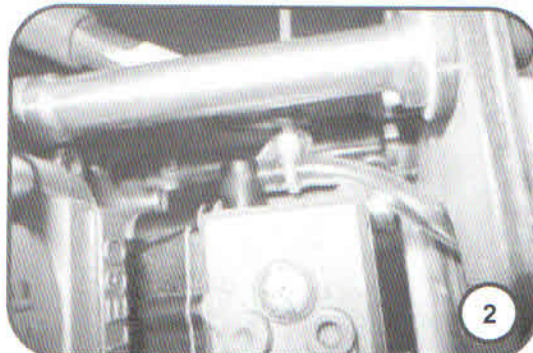


The tank bottom and cabin connect to the tank places had originally sticky connected to the VELCRO tie. Untie the velcro and install the fuel line on the copper pipe.



To Engine

Air pressure line  
Pumping Fuel



Install the engine fuel line to the carburetor tube. Tight the fuel line with nylon tie.

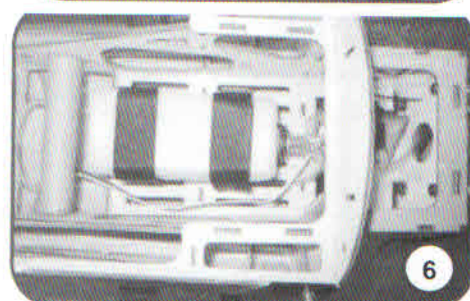


## 15 Fuel Tank

1. Drill a 6mm hole on the side of the fuselage, And then let 6mm pumping fuel line pass through the hole, Install the M5 mm Scerw to seal the fuel line.

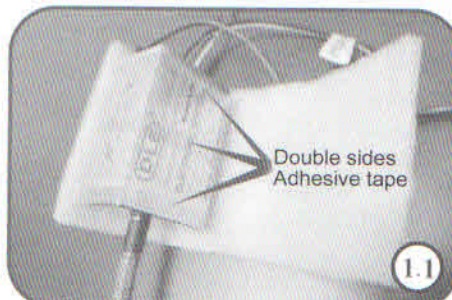


2. Drill a 6mm hole on the bottom of the fuselage, Let air line pass through the hole, Tighting the line with nylon tie will help to prevent lead from drawwing back inside of fuselage during flying, Retight the tank with the velcro tie after the fuel lines are all right.

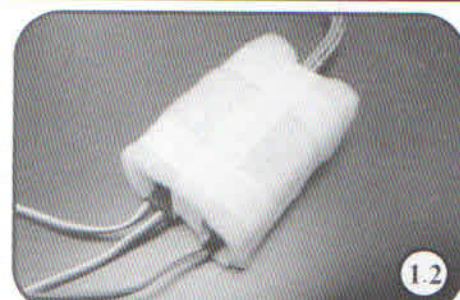


## 16 Radio Equipment

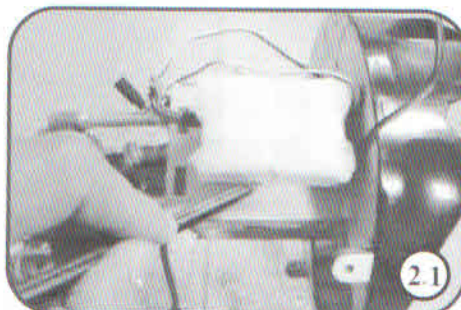
1. Trim a piece of foam rubber to the ignition module. Make the pad slightly larger than the ignition module. Bundle the ignition with tape as shown.



Double sides  
Adhesive tape



2. Position the ignition module on the side of the enging mounting box and mark the location of the nylon tie holes as shown. Use a 4mm bit to drill the ignition module mounting holes.

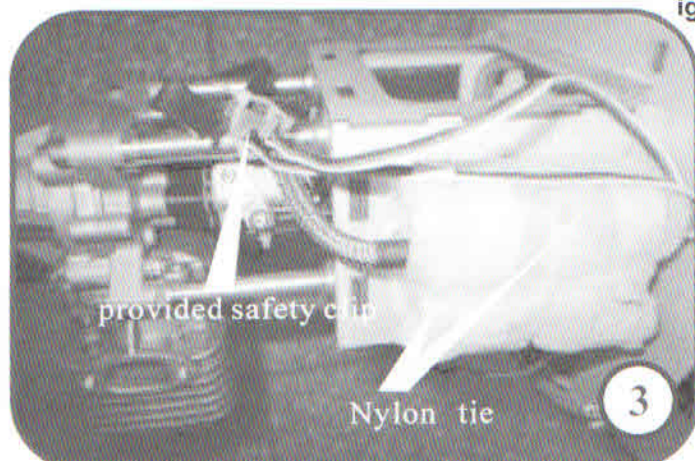
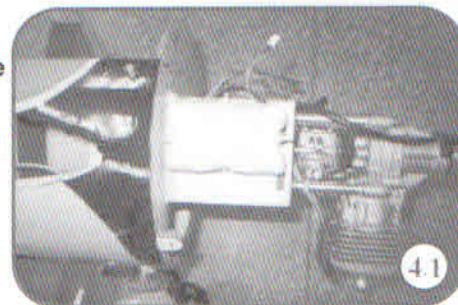


4mm bit



## 17 Radio Equipment

3. Thread nylon tie through mounting holes. Mount the engine ignition module using nylon tie as shown. Use the provided safety clips to secure the ignition and engine trigger line.

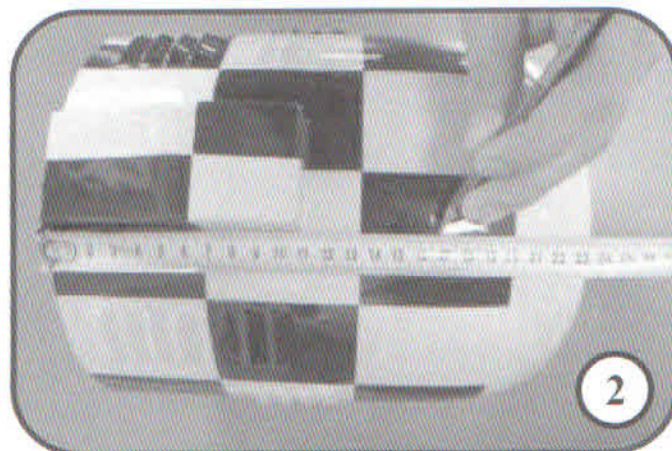
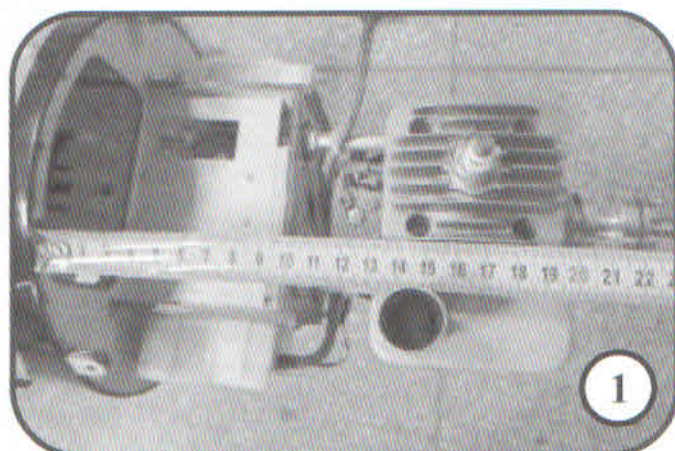


4. Repeat all the previous steps for the battery of ignition module

## 18 Cowling

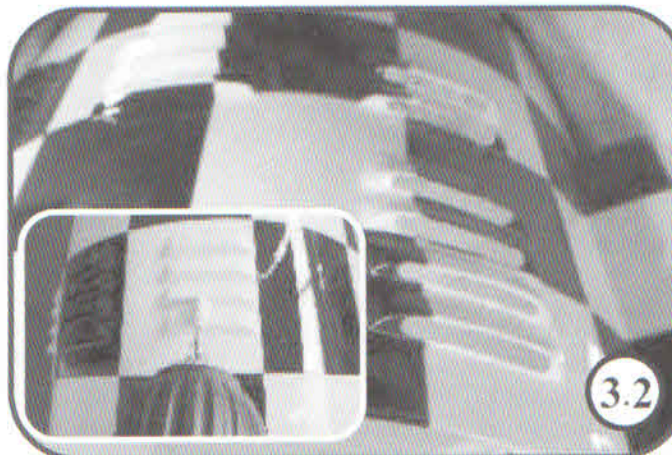
M3 X 15MM Screw 4pcs

1. Measure the distance between the fuselage and the ignition plug (and exhaust).
2. Measure the same distance on the cowling and mark it.



## 19 Cowling

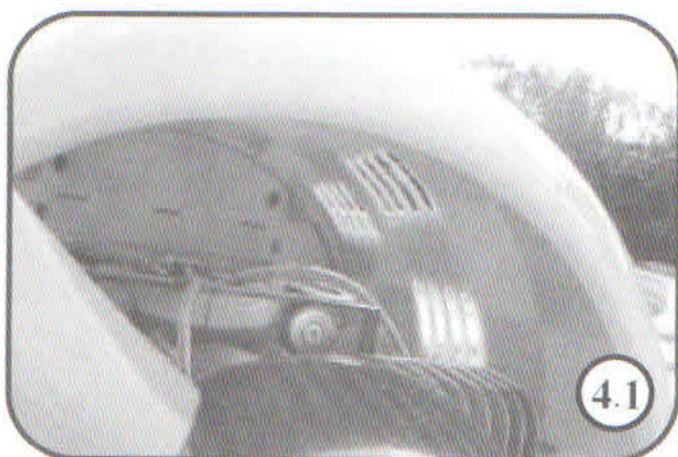
3. Use a rotary cutting tool and sanding drum to cut out the openings in the cowl. the shape and size of open pore depends on the type of the engine.





## 20 Cowling

4. Install the cowl and check that everything fits correctly and nothing rubs against cowl. If needed enlarge the cutouts and test fit again until everything fits correctly.



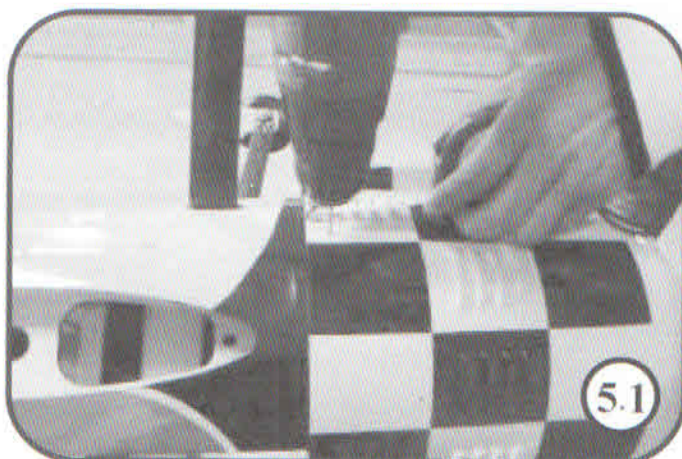
4.1



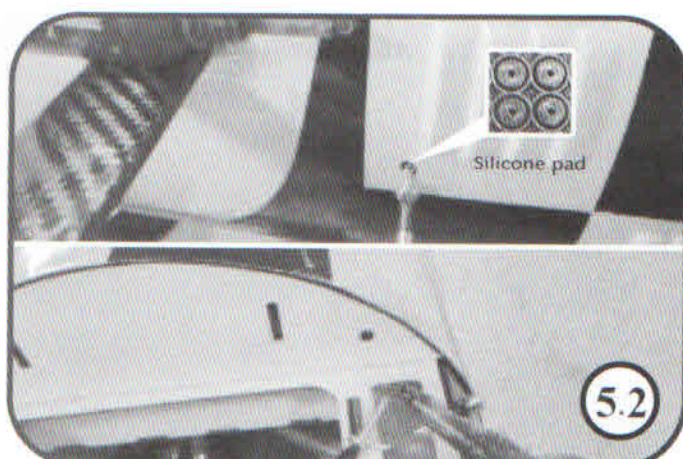
4.2

## 21 Cowling

5. Drill two 4mm holes in place. And install the cowling with four M X 15mm Screws with washers.

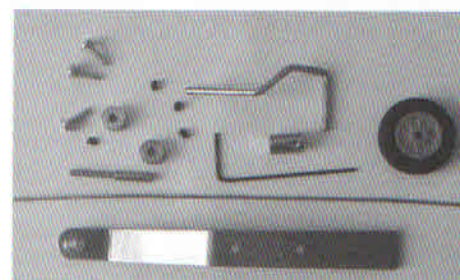
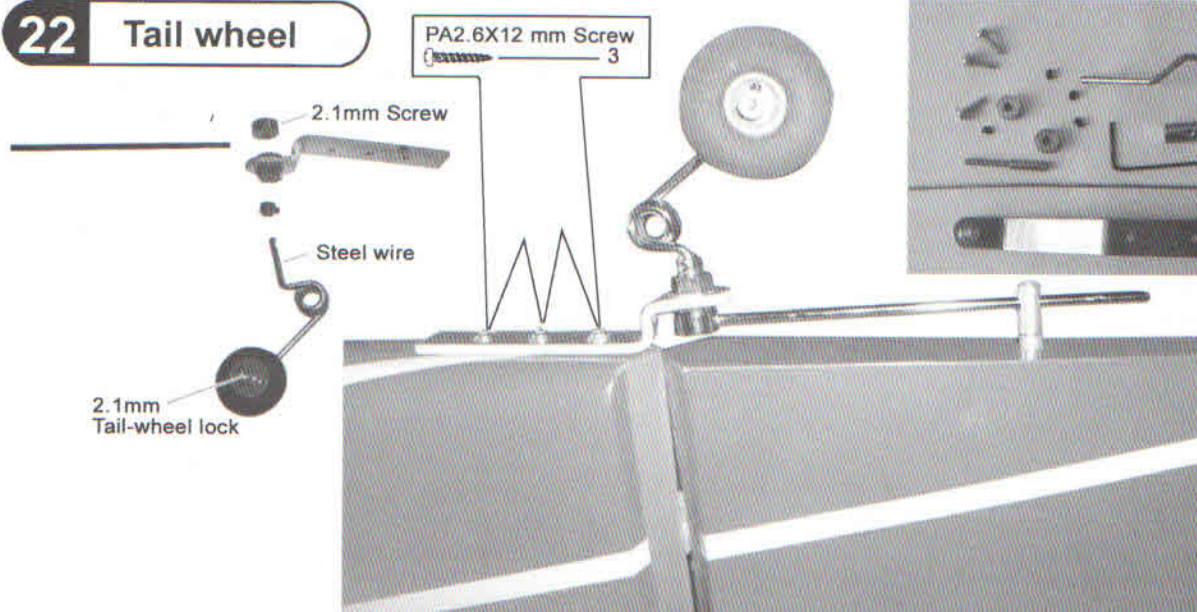


5.1



5.2

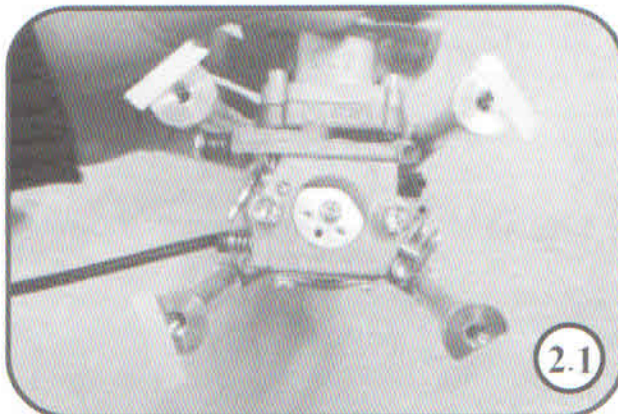
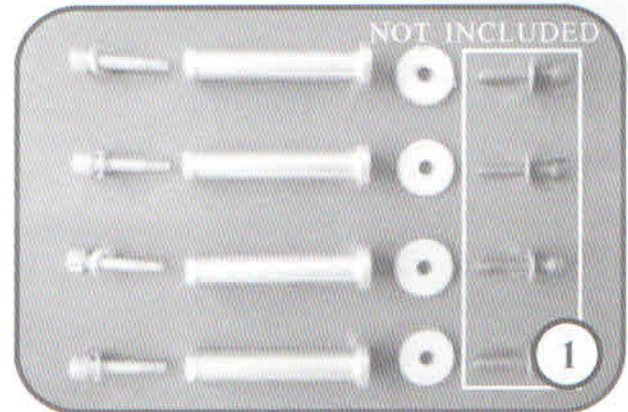
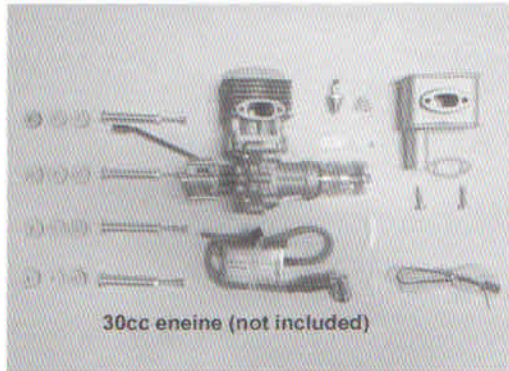
## 22 Tail wheel



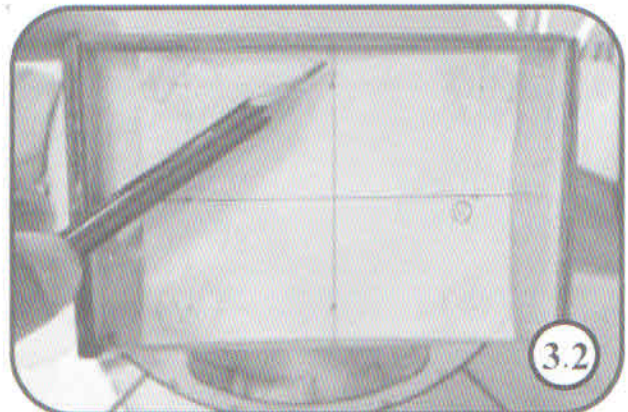
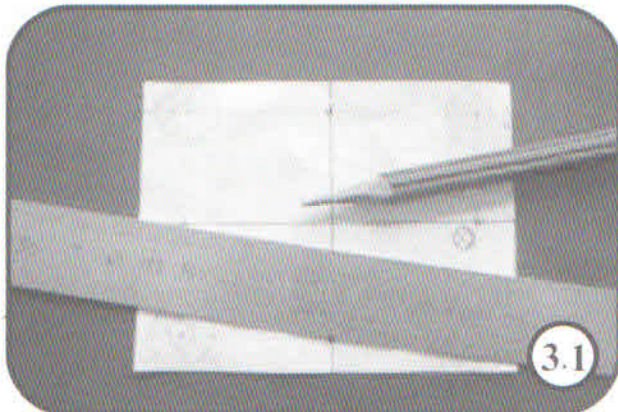


## 23 Engine

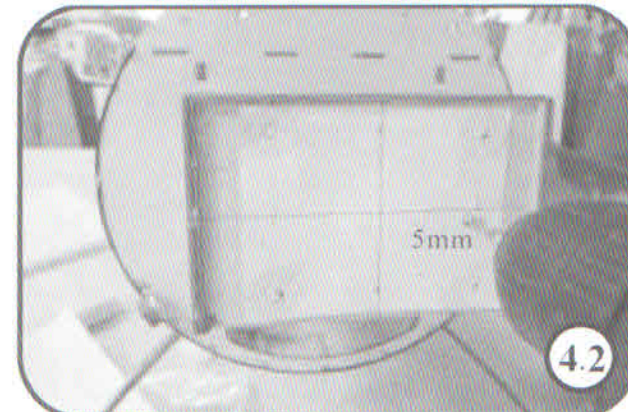
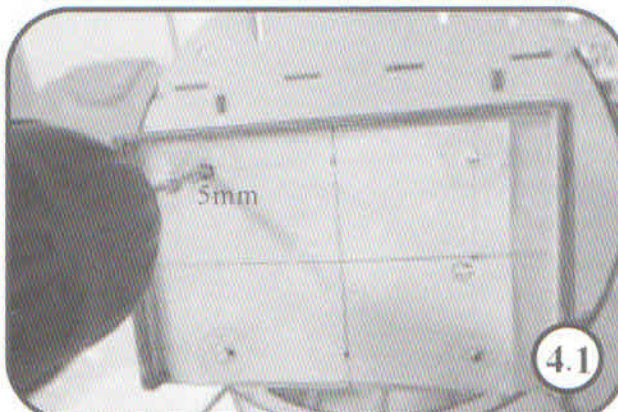
1. Do not use Blue Loctite on engine mounting screws until final assembly. The engine will need to be removed to fit the throttle pushrod and fuel line.



2. Tape a piece of 90x70mm paper to the side of the engine mounting with the double-sides tape. And stamp for the engine mounting on the paper with a pencil. position the pushrod exit hole also.



3. Draw the center-lines with a pencil as shown. Stick the template paper onto the firewall with the center-lines coincident.

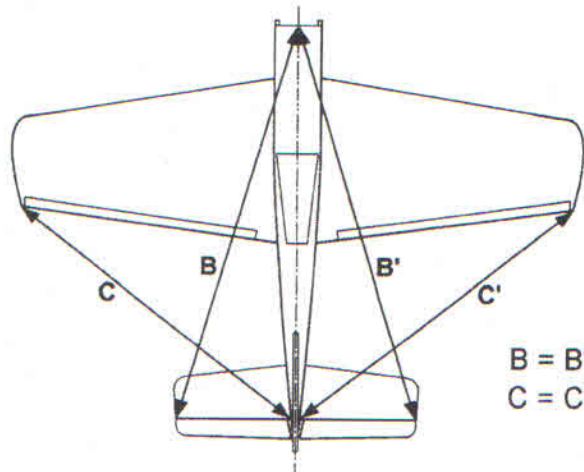
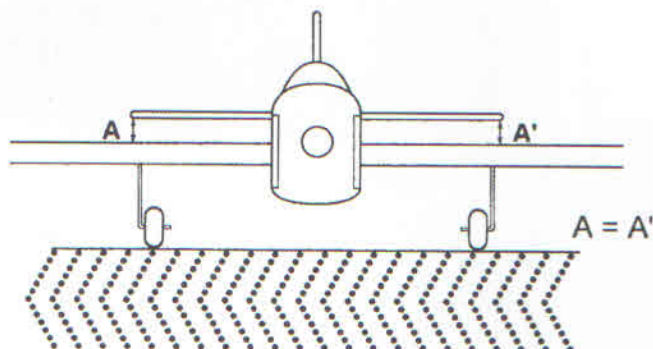


4. Drill four 5mm holes and a 5mm pushrod exit hole on the firewall.



## 24 Wing Setting

Adjust the wing and fuselage configuration as in the diagrams.

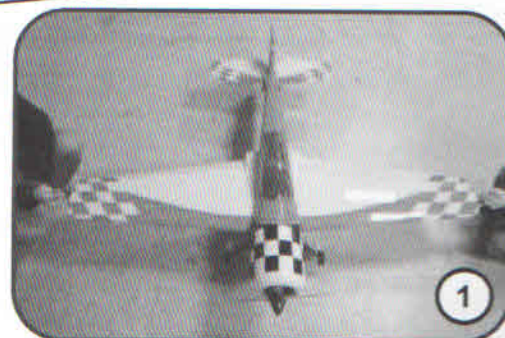
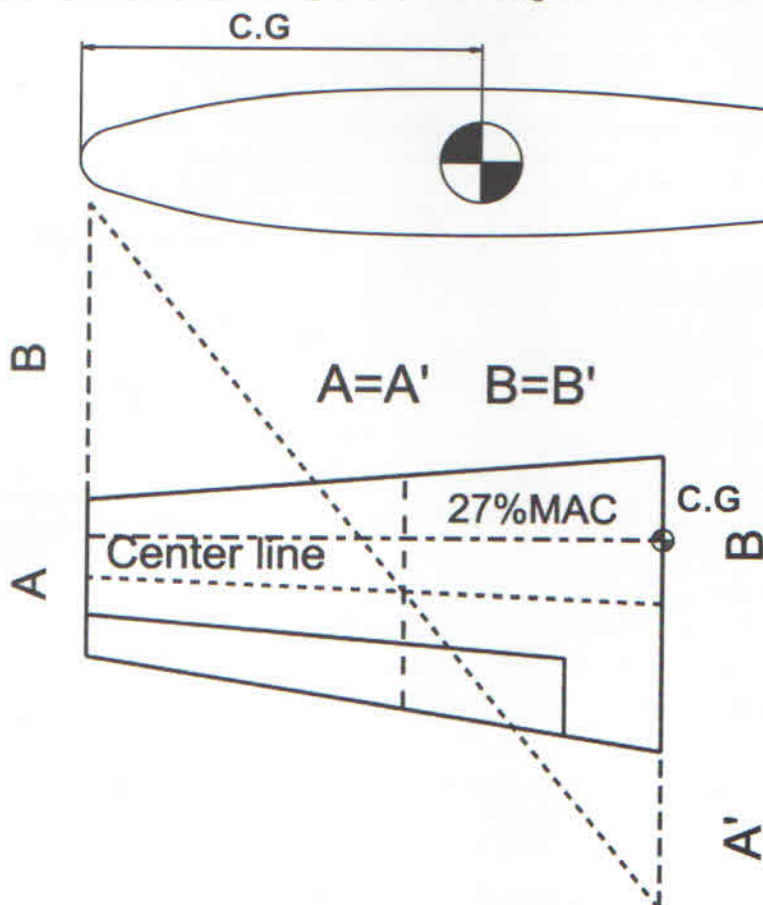


## 25 C.G

The ideal C.G position is:

EXTRA 300LP : 113 mm / 4.45 in ch;	YAK 54 : 131mm / 5.15 in ch;	SUKHOI SU29: 116 mm / 4.56 in ch;
YAK 55 M: 131 mm / 5.15 in ch ;	YAK55SP: 127 mm / 5 in ch;	SUKHOI SU26M: 116 mm / 4.56 in ch;
SBACH 342: 124 mm /4.88 in ch	MX 2: 121 mm / 4.76 in ch	THUNDER BIRD: 105mm/4.13 in ch
KATANA: 108 mm /4.25 in ch;	MXS - R : 121 mm / 4.76 in ch;	RACE EDGE540: 100 mm / 4 in ch;

behind the leading edge measured at where the wing meets the fuselage. In order to obtain the C.G. specified, add weight to the fuselage or move the battery position. Check the C.G before flying.





## 26 Control Throws

Adjust the control throws as shown in the diagram. These throws are good for general flying. you can adjust according to your personal preference.

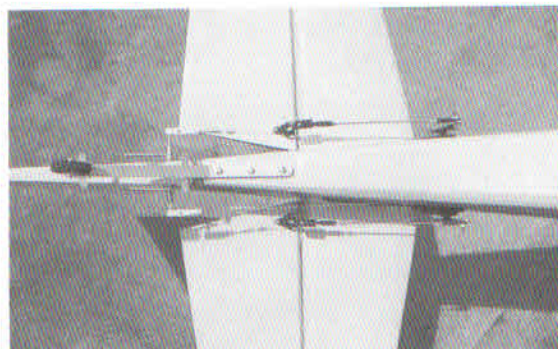
Elevator



Rudder



Aileron



	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%

All 30cc size series has tow color schemes which Fly-model designed. As for new product, please log on Fly model's website to have a look.

## 27 Warning!

### Important Safety Precautions

- # First time flyer should never fly by himself / herself. Assistance from experienced flyer is absolutely necessary.
- # Pre-flight adjustment must be done before flying, it is very dangerous to fly a badly pre-adjusted aircraft.
- # 30cc series is designed to be powered by 30cc in Gas Engine.  
using a more powerful engine does not mean better performance.  
In fact, over powered engine may cause structural damage and injuries.
- # Make sure the air field is spacious, never fly the plane too close to people and never get too close to a running propeller.
- # If you find wrinkles on the covering as a result of weather changes, you can use hot iron to remove the wrinkles. Please begin with lower temperature setting and gradually raise the temperature until the wrinkles are gone. Too hot an iron may damage the covering.
- # Check and re-tighten up all factory assembled screws, use thread locker if applicable.