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# Piper PA-20 pacer

Item Nr: CY8028



## Instruction Manual

Before commencing assembly, please read these instructions thoroughly.

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



### **SAFETY PRECAUTIONS**

**This radio control model is not a toy!**

- First-time builders should seek advice from people having building experience in order to assemble the model correctly and to produce its performance to full extent.
- Assemble this kit only in places out of children's reach!
- Take enough safety precautions prior to operating this model.  
You are responsible for this model's assembly and safe operation!
- Always keep this instruction manual ready at hand for quick reference, even after completing the assembly.
- Could cause serious injury or even death

### **SPECIFICATION**

Wing Span: 2250 mm (88.6in)  
Wing Area: 79.6 dm<sup>2</sup> (1234sq.in)  
Total Length: 1560 mm (61.4 in)  
Engine : 26-35cc Gas Engine  
Radio : 5 channels , 8 servos

# REQUIRED FOR OPERATION (Purchase separately)

- 1 A minimum 5channel radio for airplanes (with 8servos).  
And dry batteries.

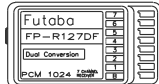


**CAUTION:** Only use a minimum 5channel radio for airplanes! (No other radio may be used!)

A minimum 5 channel transmitter for airplanes.



12 AA-size Batteries



Receiver



remote control

For handling the radio properly, refer to its instruction manual.

- 2 Battery (need 2)



Switch (need 2)

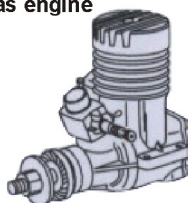


- 3 Servo(need 8 servos )



- 4 Engine and Muffler  
Model Airplane engine  
26-35cc gas engine

Muffler



Glow plug

- 5 Glue



Epoxy Glue



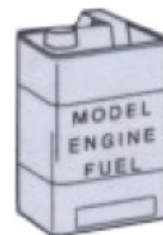
Instant glue

- 6 required for engine starting



**WARNING:** Normal gasoline cannot be used with glow engines.

Glow engine fuel only.



Fuel Pump



Plug Wrench

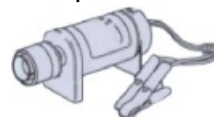
- 7 Silicone Tube



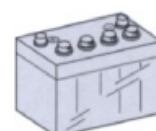
Fuel Filter



- 8 Other equipment for enhancing airplane operation & performance



Engine Starter



12V Battery (for starter)

- 9 Purchase a propeller that will match your engine



## TOOLS REQUIRED ( Purchase separately)

Sharp Hobby Knife



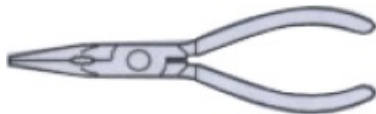
Phillips Screw Driver



Awl



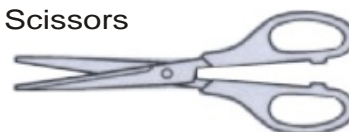
Needle Nose Pliers



Wire Cutters



Scissors



## 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.



Apply epoxy glue.



Drill holes with the specified Diameter(here:2mm)



Must be purchased separately!



Apply instant glue (CA glue,super glue).



Ensure smooth non-binding movement while assembling.



Pay close attention here!



Assemble left and right Sides the same way.



Cut off shaded portion.



Cut off excess.



**Warning!**

Do not overlook this symbol.



## Accessory list for this page.

	HORN	4
	HORN	4
	Rod adjuster	4
	Connecting rod head	4
	2x8mm Screw	4
	2x30mm Screw	12
	1.8X90mm rod	4
	2.3x10mm TP Screw	16
	Hinge	12
	8mm nylon Nut	4

## 3 Main wing

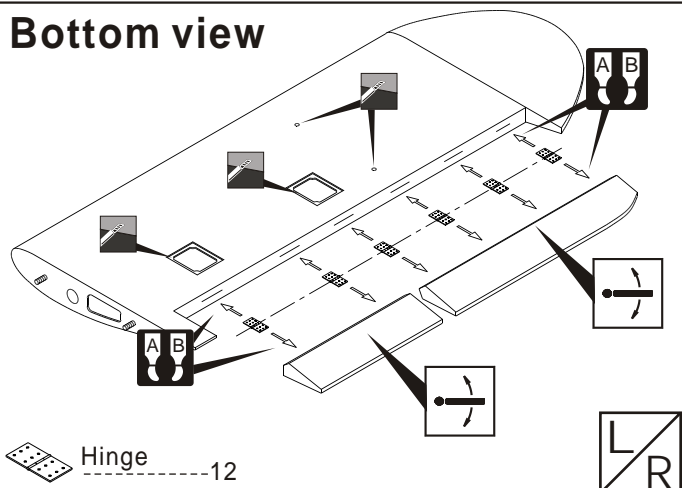
### Bottom view



	HORN	4
	HORN	4
	Rod adjuster	4
	Connecting rod head	4
	2x8mm Screw	4
	2x30mm Screw	12
	1.8X90mm rod	4
	2.3x10mm TP Screw	16

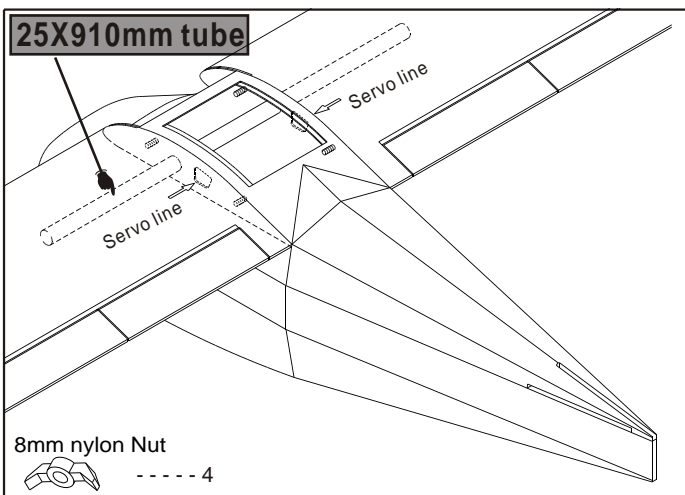
## 1 Install the aileron and flap

### Bottom view



Hinge ----- 12

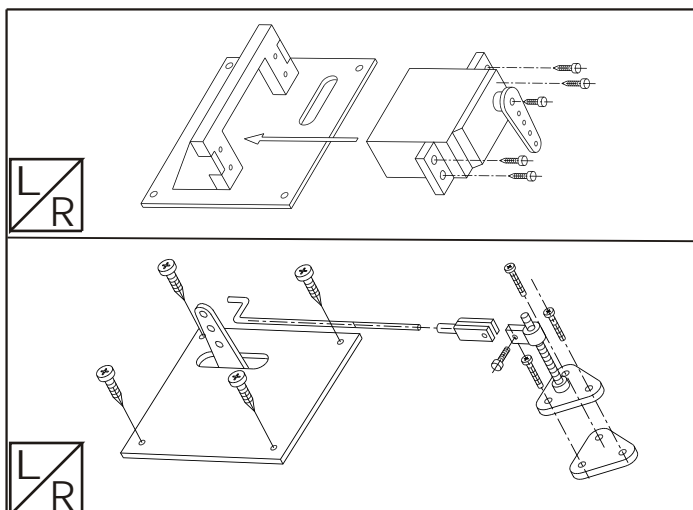
## 4 Main wing (Put the servo line into the fuselage)



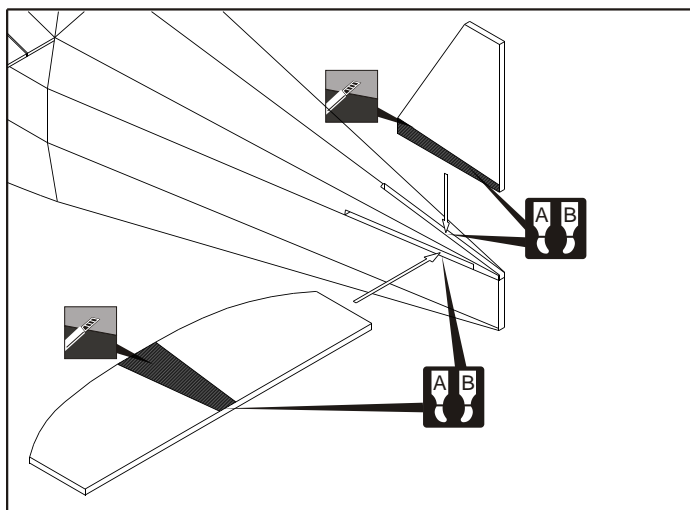
25X910mm tube

8mm nylon Nut  
 ----- 4

## 2 Install the aileron and flap servo



## 5 Horizontal/Vertical tail

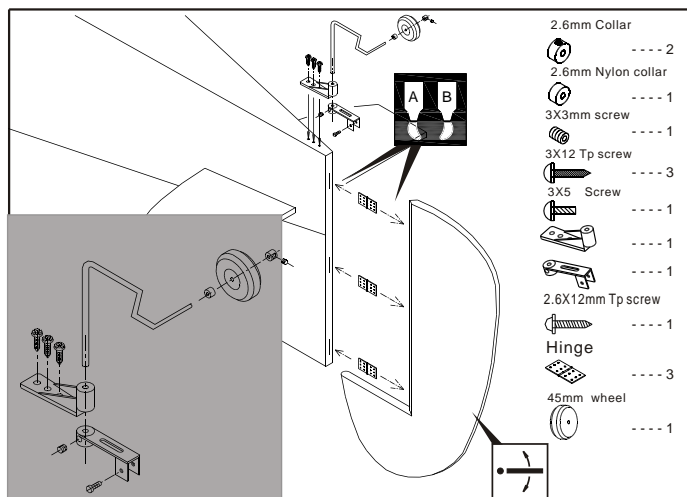




## Accessory list for this page.

2.6mm Collar ----- 2	HORN ----- 2
2.6mm Nylon collar ----- 1	HORN ----- 2
3X3mm screw ----- 1	Rod adjuster ----- 2
3X12 Tp screw ----- 1	Connecting rod head ----- 2
3X5 Screw ----- 1	2x8mm Screw ----- 2
2.6X12mm Tp screw ----- 1	2x20mm Screw ----- 6
	1.8X90mm rod ----- 2
	Hinge ----- 9
	45mm wheel ----- 1

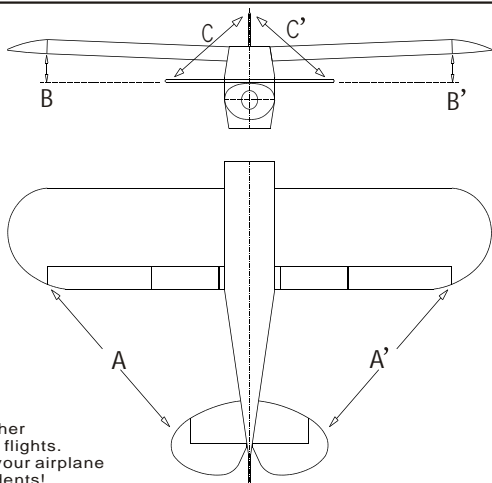
## 8 Install the tail wheel and rudder



## 6 Horizontal/Vertical tail



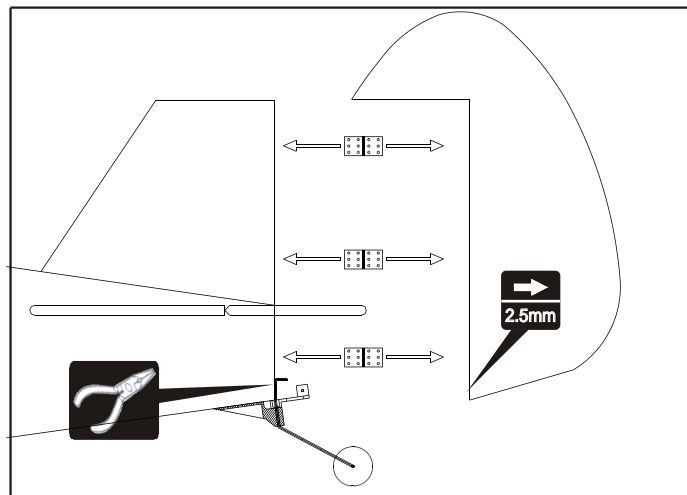
A = A'  
 B = B'  
 C = C'



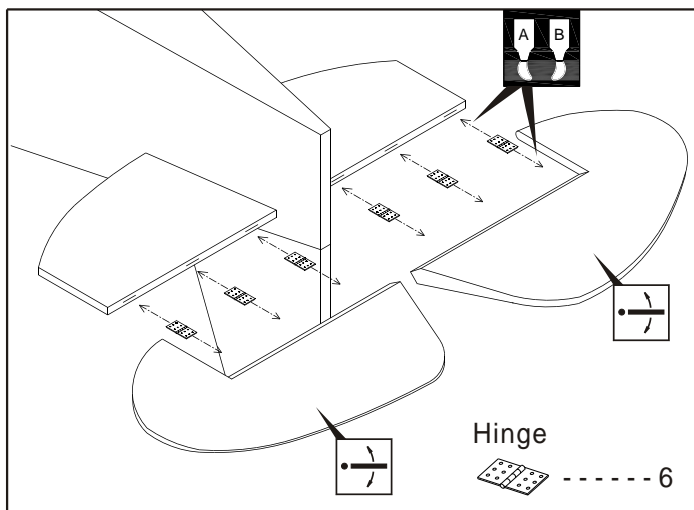
Warning!

Securely glue together  
 if coming off during flights.  
 You lose control of your airplane  
 which leads to accidents!

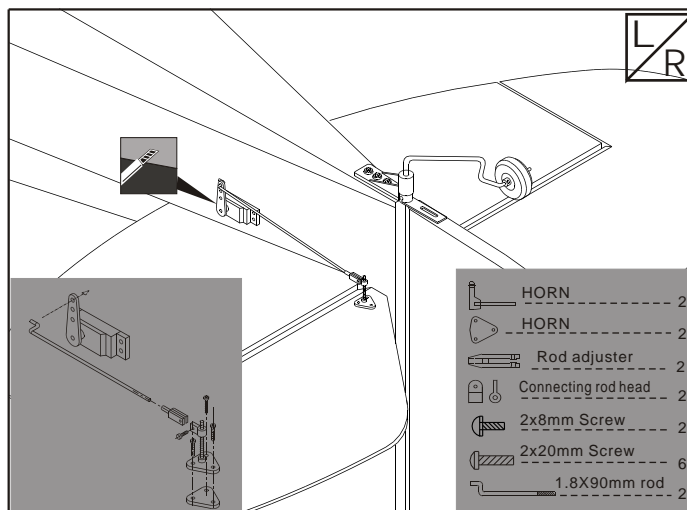
## 9 Install the rudder&tail wheel



## 7 Install the elevator



## 10 Install the elevator servo





## Accessory list for this page.

5X50mm screw

-----2

4X20mm screw

-----4

5mm Washer

-----4

4mm Washer

-----4

5mm lock nut

-----4

5.2mm Collar

-----2

3X3mm screw

-----3

### HORN

-----2

### Rod adjuster

-----4

### Connecting rod head

-----2

### Rod

-----4

2X20mm screw

-----3

2mm nut

-----3

2X8mm screw

-----4

### Linkage Stopper

-----1

2mm Nut

-----1

1.8X150mm Rod

-----1

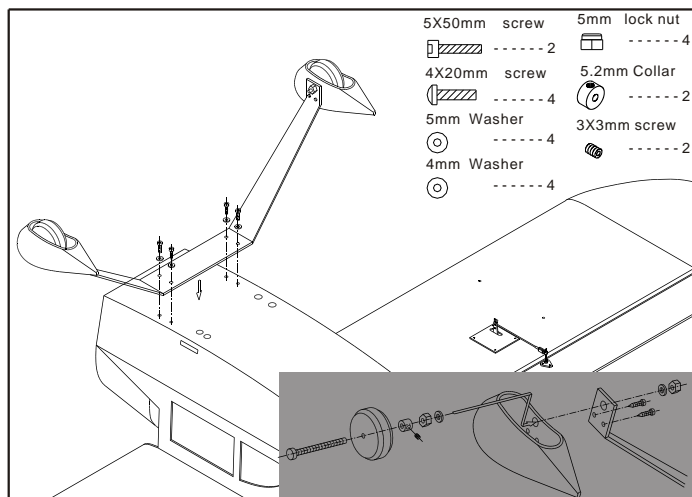
1100mm Steel wire

-----2

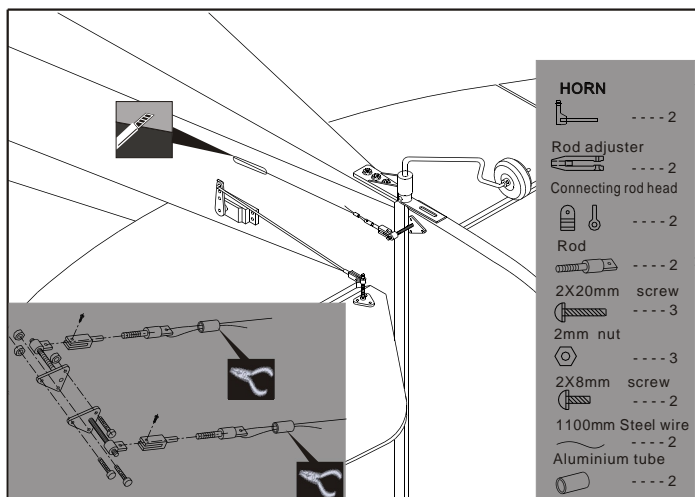
Aluminium tube

-----4

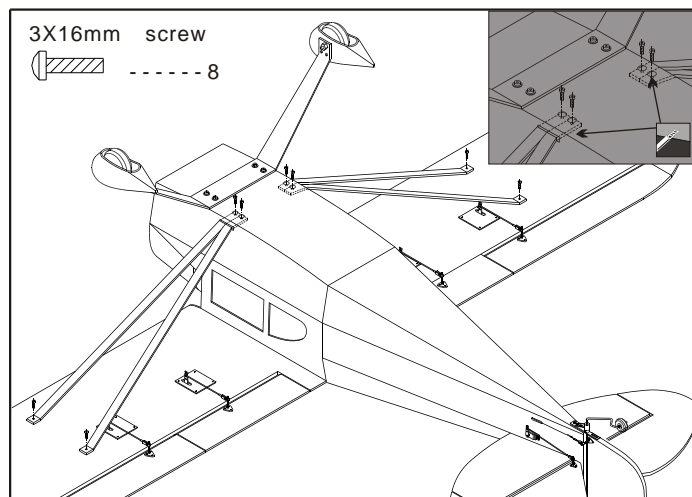
## 13 Install the main landing gear



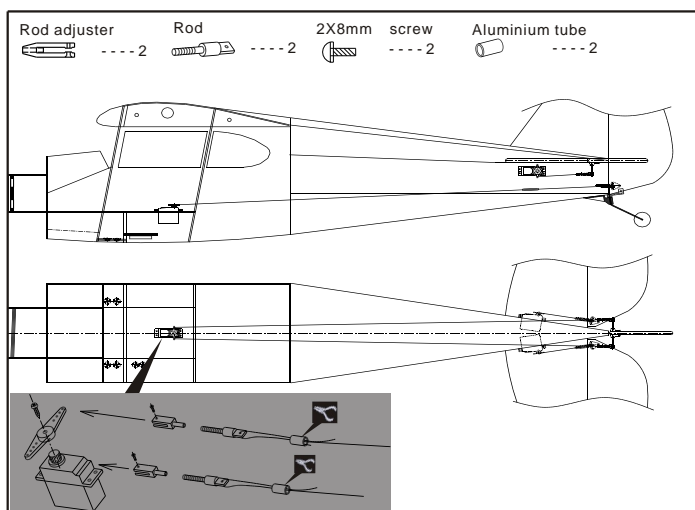
## 11 Install the rudder servo



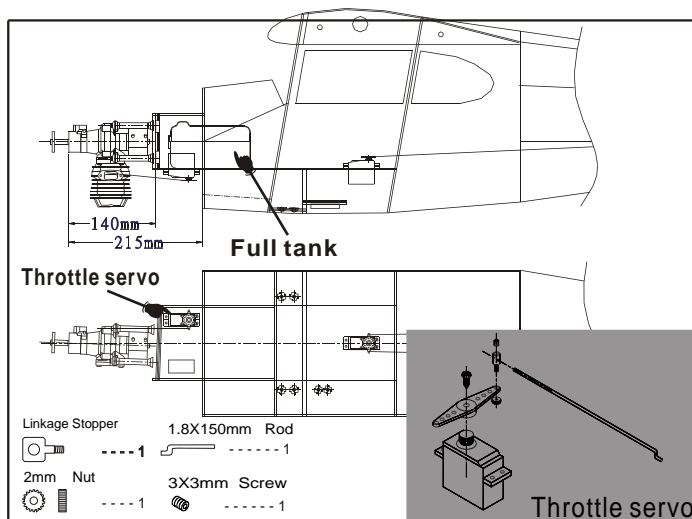
## 14 Install the wing support



## 12 Install the rudder servo



## 15 Install the engine







## Accessory list for this page.

2.6X12mm Tp screw



3X12mm screw



3mm Washer

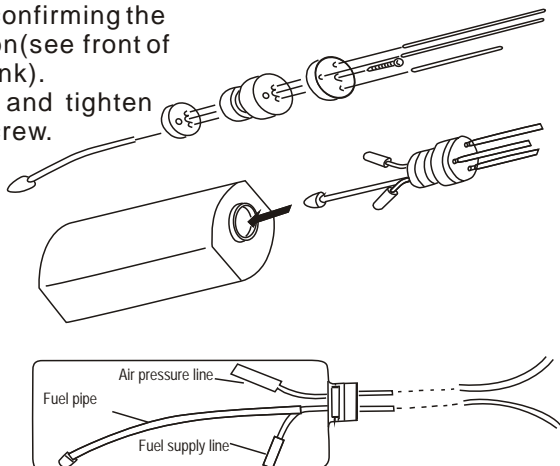


## 18 Install the windows



## 16 Install the fuel tank

After confirming the position(see front of fuel tank). Insert and tighten the screw.



## 19 Install the canopy

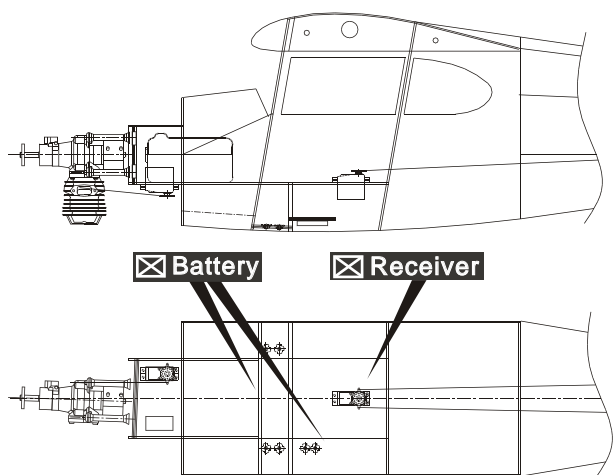
Cut away the surplus parts of canopy carefully along the shaded line.



2.6X12mm Tp screw



## 17 Radio Equipment



## 20 Install the cowling

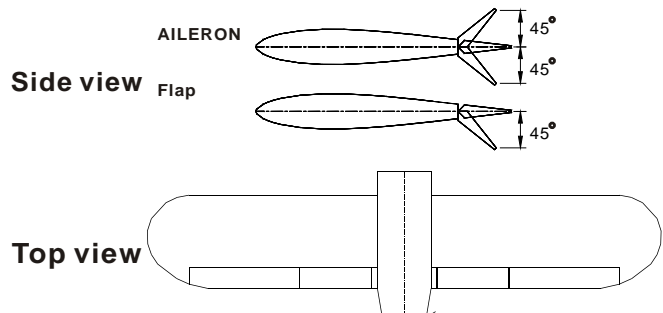


3X12mm screw 3mm Washer



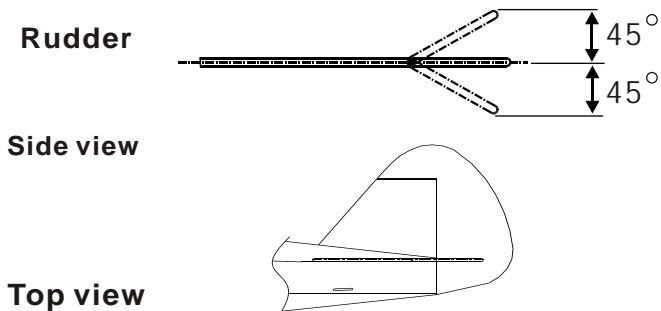
## 21 Adjustment.

Adjust the travel of each control surface to the values in the diagrams.  
These values fit general flight capabilities.  
Readjust according to your needs and flight level.



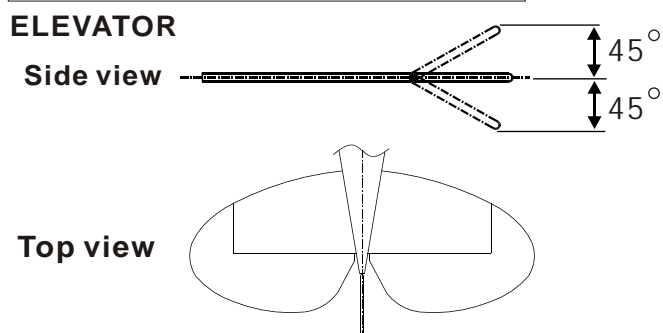
## 23 Adjustment

Adjust the travel of each control surface to the values in the diagrams.  
These values fit general flight capabilities.  
Readjust according to your needs and flight level.



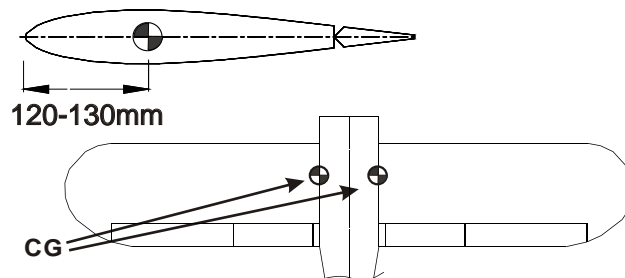
## 22 Adjustment.

Adjust the travel of each control surface to the values in the diagrams.  
These values fit general flight capabilities.  
Readjust according to your needs and flight level.



## 24 Adjustment.

Never fly before checking the Cg' s required position.  
In order to obtain the CG specified ,reposition the receiver and battery.



警告  
Warning!

**NEVER fly the model  
without well balancing.**