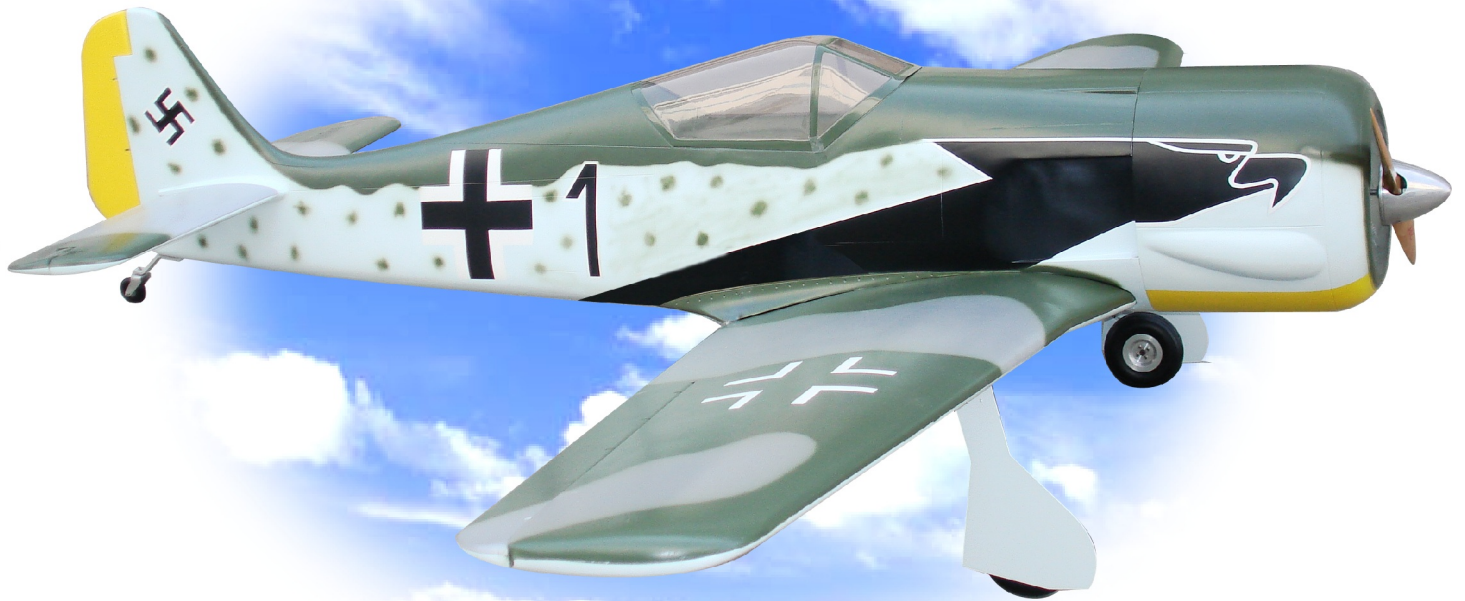


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FW-190

Item Nr: CY8142B



Instruction Manual

Before commencing assembly, please read these instructions thoroughly.

ALMOST - READY - TO - FLY



SAFETY PRECAUTIONS

This radio control model is not a toy!

SPECIFICATION

- 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

Wing Span: 2120mm (83.5in)
Wing Area: 63.8dm² (989sq.in)
Total Length: 1790 mm (70.5 in)
Engine 35-:50cc gas engine
Radio : 6 channels ,9 servos

REQUIRED FOR OPERATION (Purchase separately)

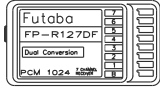
- 1** A minimum 6channel radio for airplanes (with 9servos).
And dry batteries.

CAUTION: Only use a minimum 6channel radio for airplanes! (No other radio may be used!)

A minimum 4 channel transmitter for airplanes.



12 AA-size Batteries



receiver



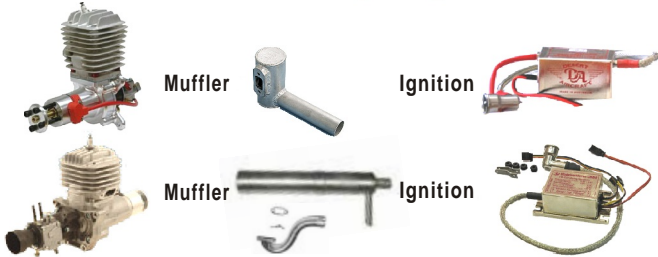
remote control

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

- 2** Battery (need 2) Switch (need 2)

- 3** Servo(need 9 servos)

- 4** Engine and Muffler
Model Airplane engine:35-50cc gas engine



- 5** Glue
- Epoxy Glue
Instant glue

- 6** required for engine starting
- WARNING:** Normal gasoline cannot be used with glow engines.
- Fuel Pump
Plug Wrench
MODEL ENGINE FUEL

- 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



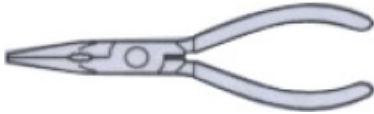
Phillips Screw Driver



Awl



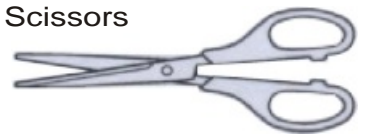
Needle Nose Pliers



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!

Warning!

Apply instant glue (CA glue,super glue).

Ensure smooth non-binding movement while assembling.

Pay close attention here!

Do not overlook this symbol.

Assemble left and right Sides the same way.

Cut off shaded portion.

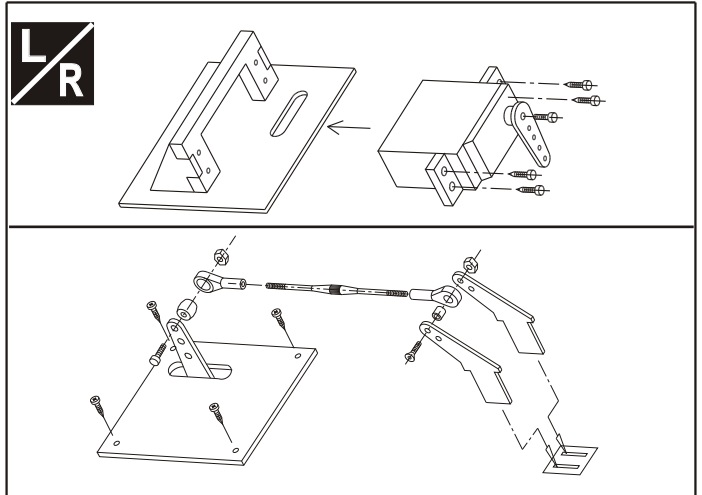
Cut off excess.



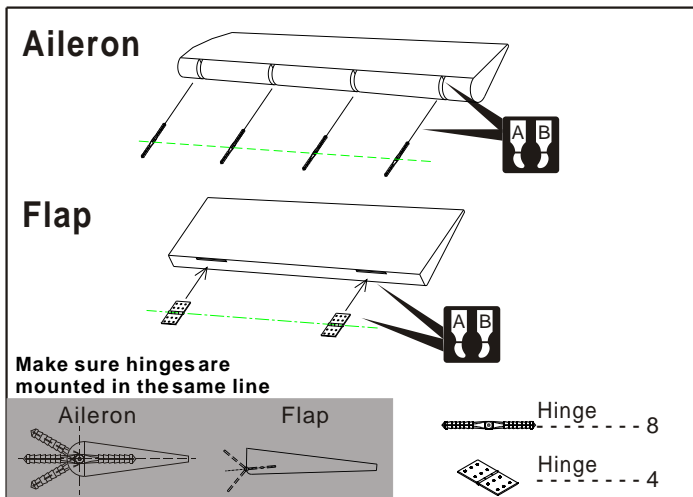
Accessory list for this page.

	3mm Lock nut	8
	3X16 Screw	8
	2.5X85mm rod	4
	Rod adjuster	4
	Rod adjuster	4
	HORN	8
	2.6X12mm Tp Screw	16
	Hinge	8
	Hinge	4

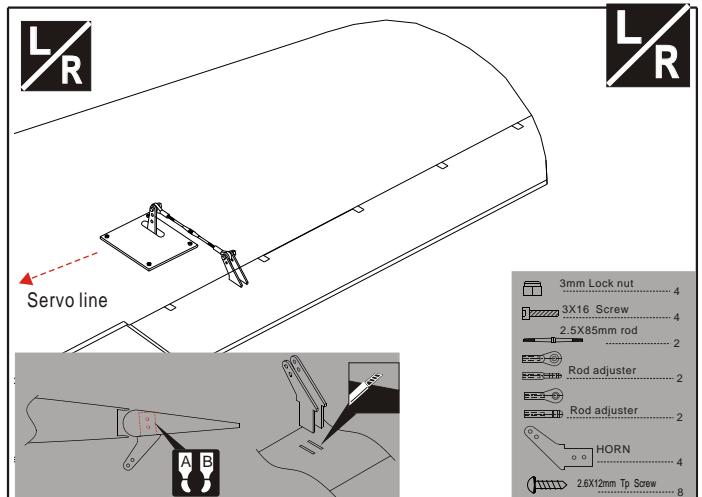
3 Install the servo



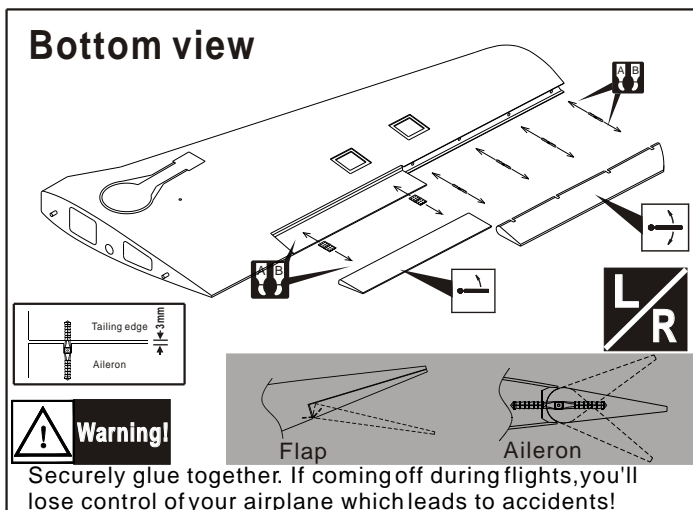
1 Install the aileron



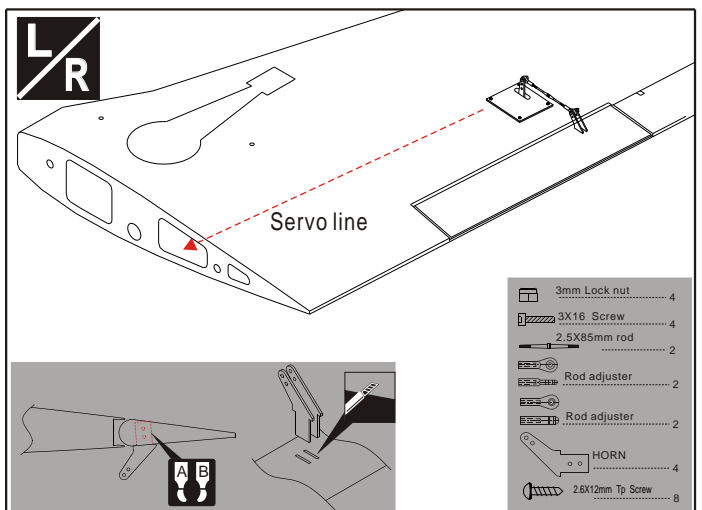
4 Install the servo of aileron



2 Please notice the illustration below when epoxy the pin hinges to the aileron



5 Install the servo of flap





Accessory list for this page.

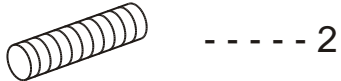
2mm plywood



8mm nylon Nut



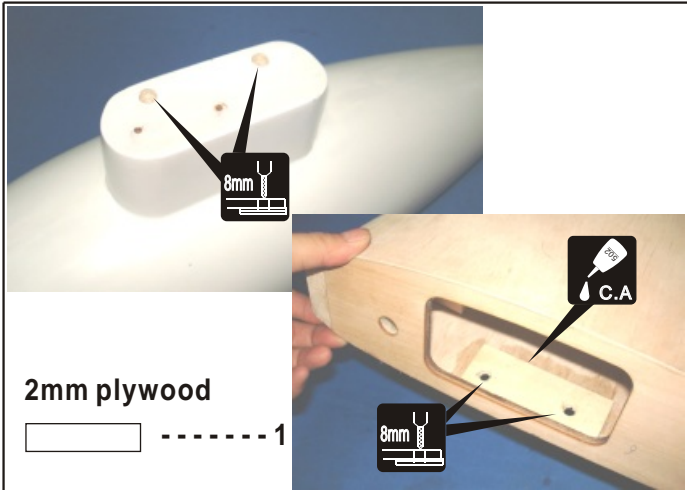
8mm nylon screw



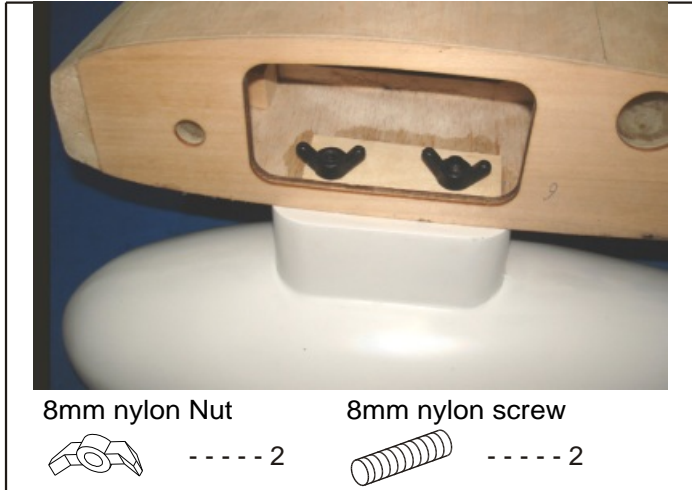
8 Install the missile



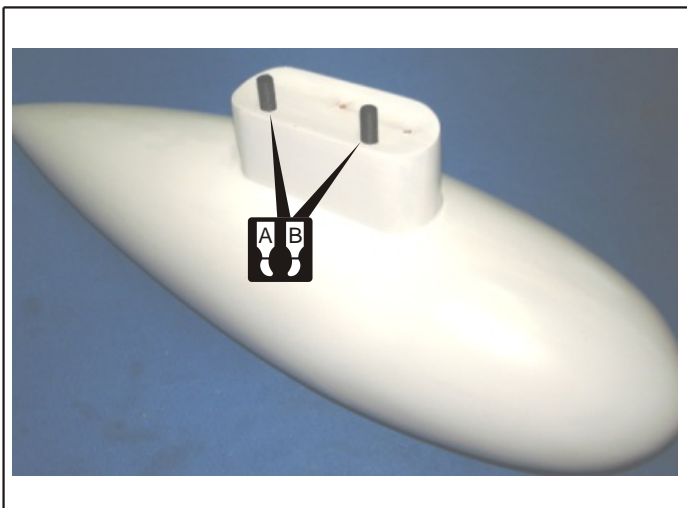
6 Install the missile



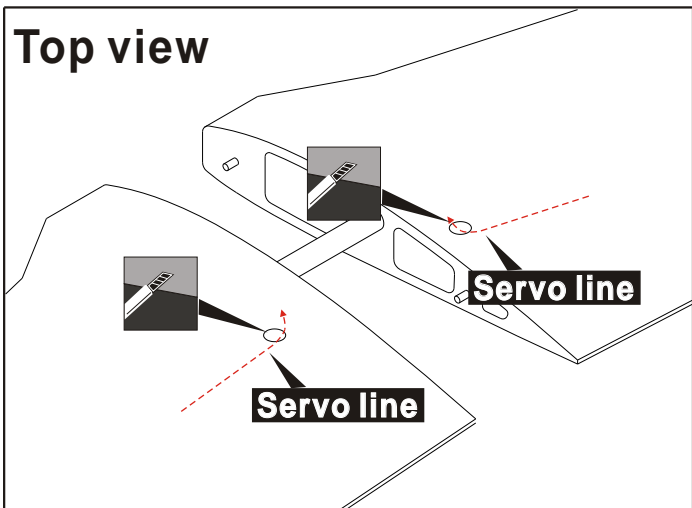
9 Install the missile



7 Install the missile












10 Main wing



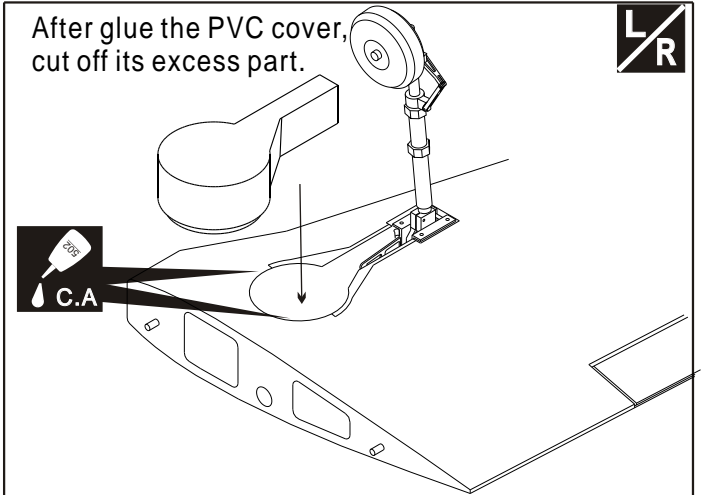


Accessory list for this page.

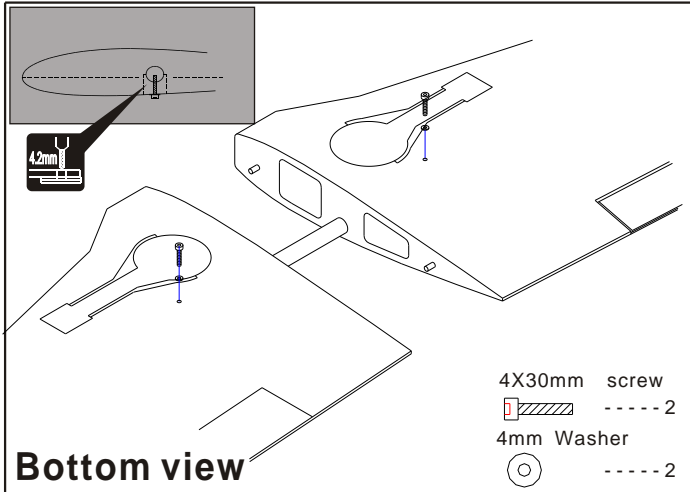
4X30mm screw 	----- 2	Rod adjuster 	----- 1
4mm Washer 	----- 2	2X8mm screw 	----- 1
4mm Lock nut 	----- 2	Retainer 	----- 1
3X20mm Tp screw 	----- 8	Rod (1.8X80mm) 	----- 1
		Air line 	----- 2

13 Install the main landing gear

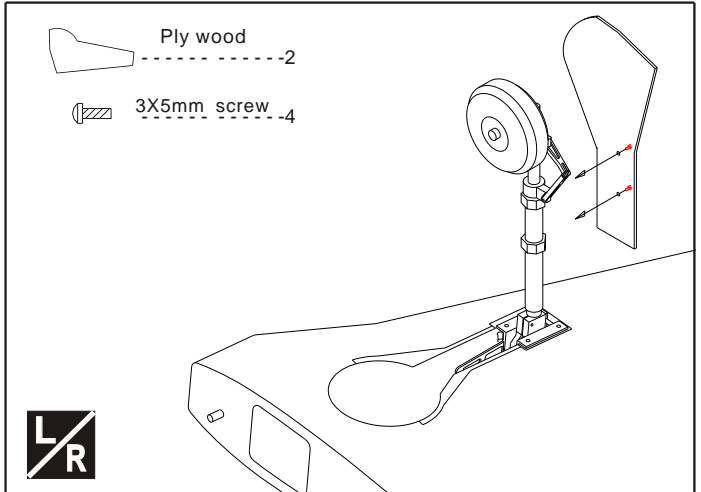
After glue the PVC cover, cut off its excess part.



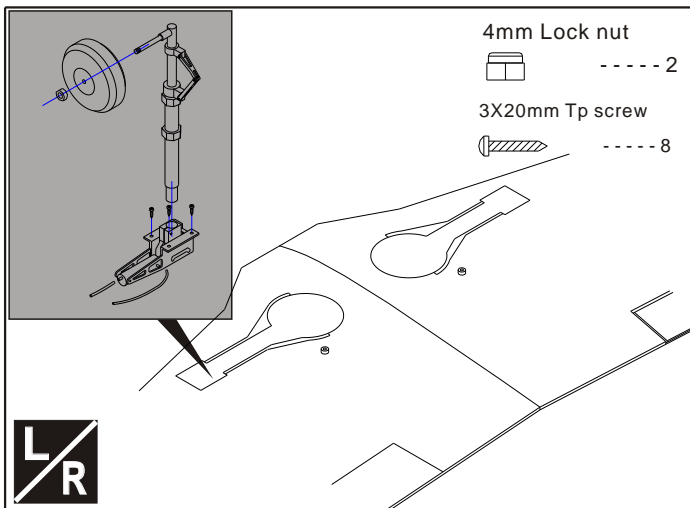
11 Main wing. Before installing screw, the tube need to drill a hole



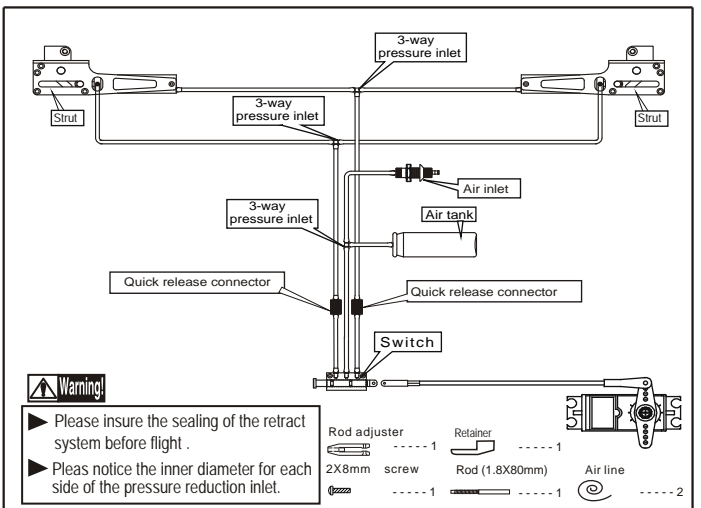
14 Install the main landing gear



12 Install the main landing gear



15 Install the main landing gear



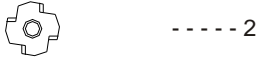


Accessory list for this page.

5X45mm screw



5mm Bind nut



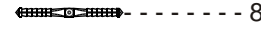
5mm Washer



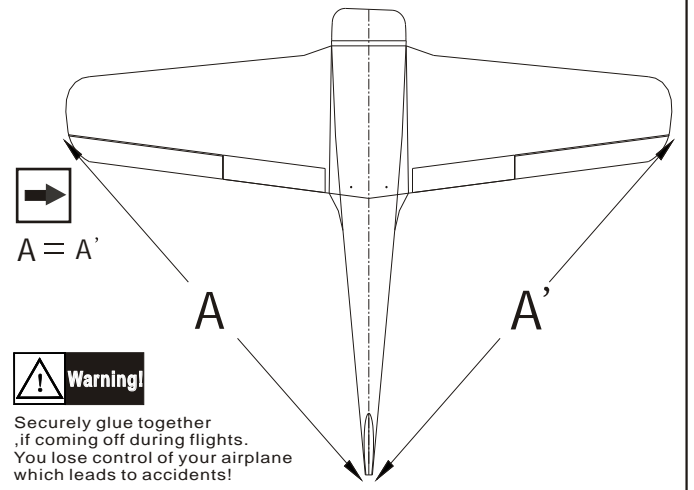
8X40mm Carbon tube



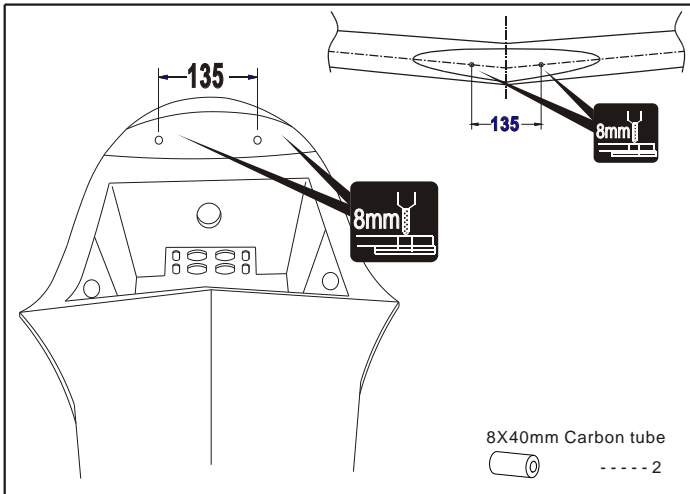
Hinge



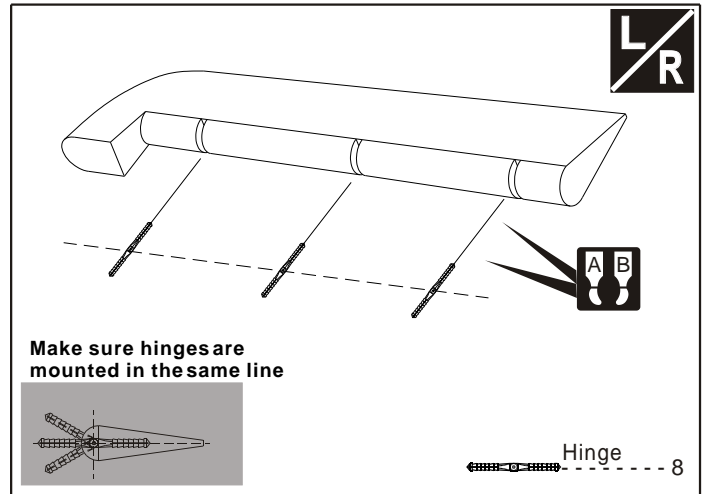
18 Main wing



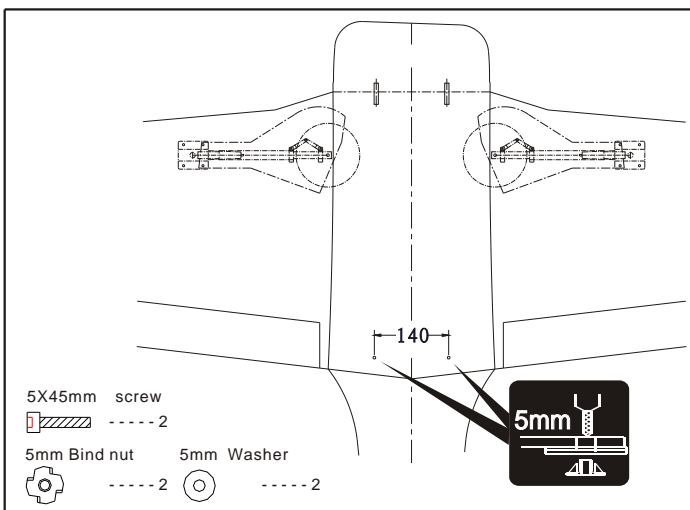
16 Main wing



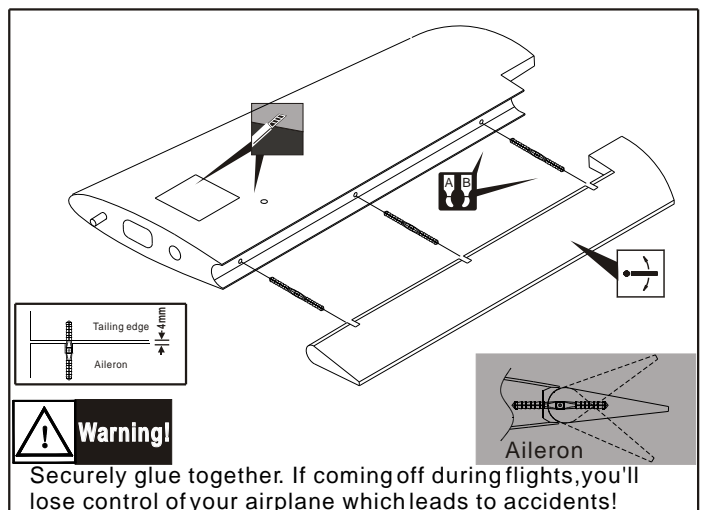
19 Install the elevator



17 Main wing



20 Install the elevator





Accessory list for this page.

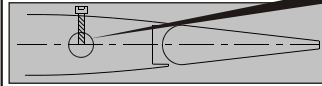
- 3mm Lock nut 4
- 3X16 Screw 4
- 2.5X85mm rod 2
- Rod adjuster 2
- Rod adjuster 2
- HORN 4
- 2.3X10mm Tp screw 4
- 4X16mm screw 2
- 4mm Washer 2
- Hinge 8

23

Install the elevator, put the servo line into the fuselage

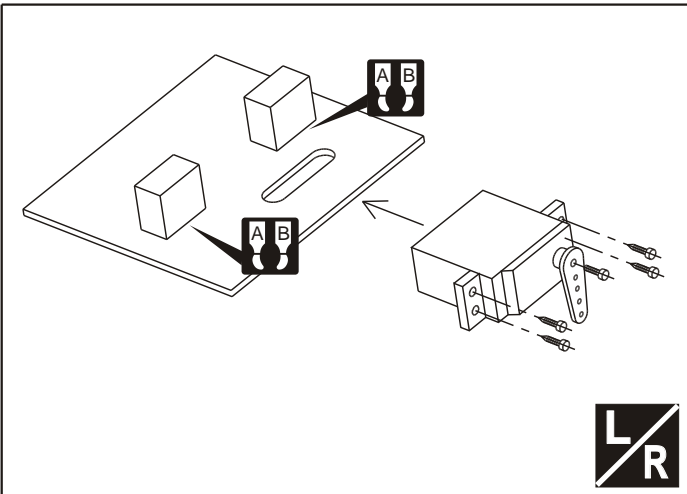
- 4X16mm screw 2
- 4mm Washer 2

Before installing screw, the tube need to drill a hole

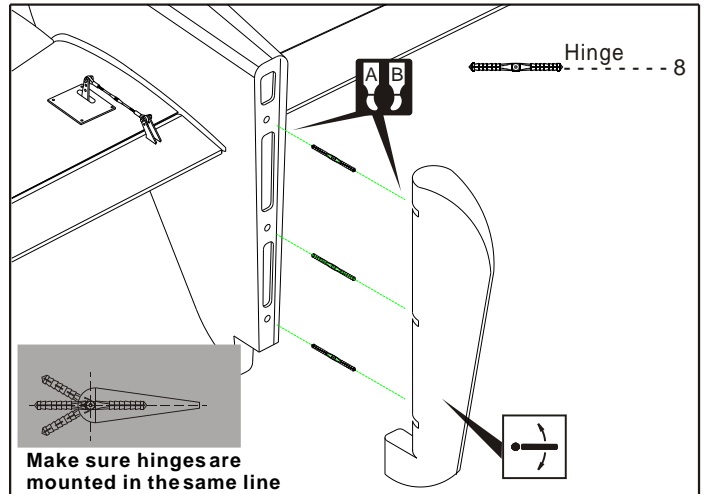


4.2mm

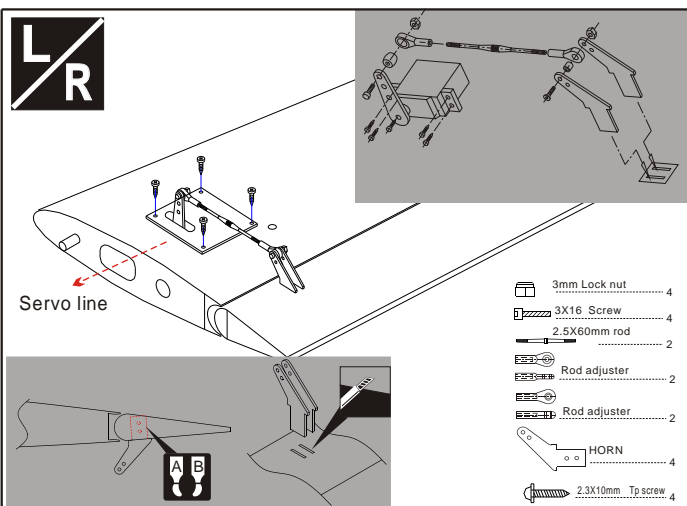
21 Install the servo of elevator



24 Install the rudder

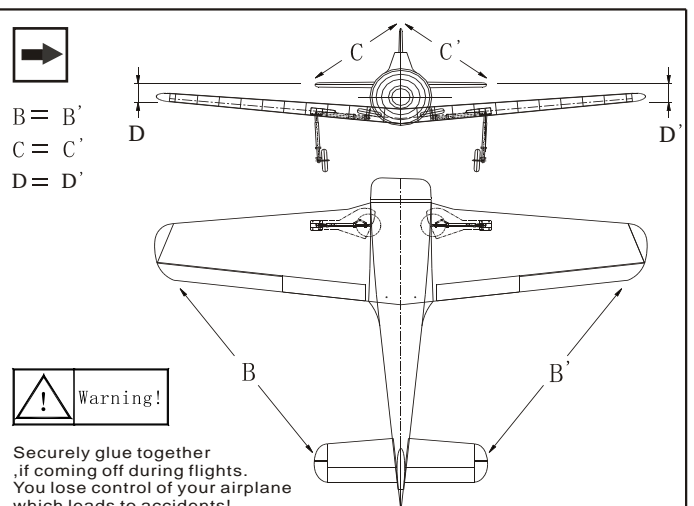


22 Install the servo of elevator



- 3mm Lock nut 4
- 3X16 Screw 4
- 2.5X60mm rod 2
- Rod adjuster 2
- Rod adjuster 2
- HORN 4
- 2.3X10mm Tp screw 4

25 Horizontal/Vertical tail



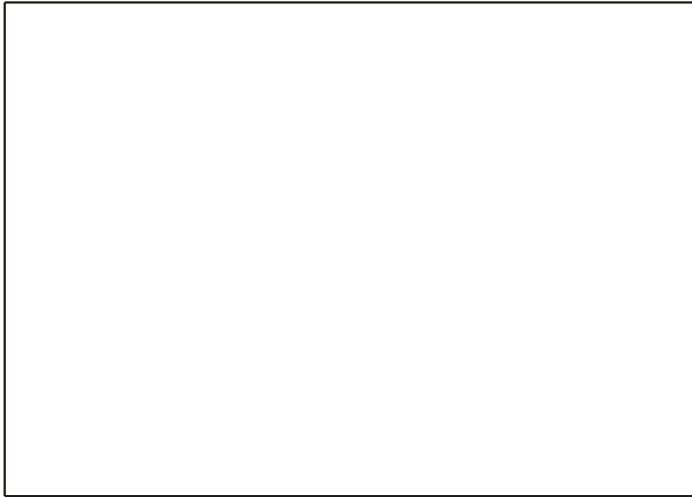
B = B'
C = C'
D = D'



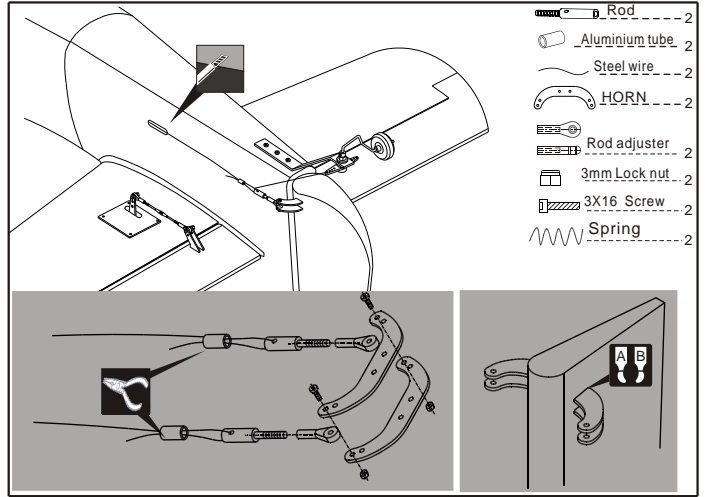
Securely glue together, if coming off during flights. You lose control of your airplane which leads to accidents!



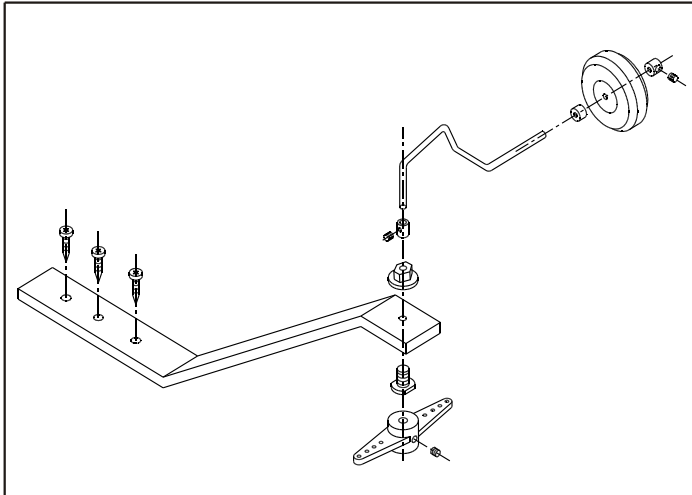
Accessory list for this page.



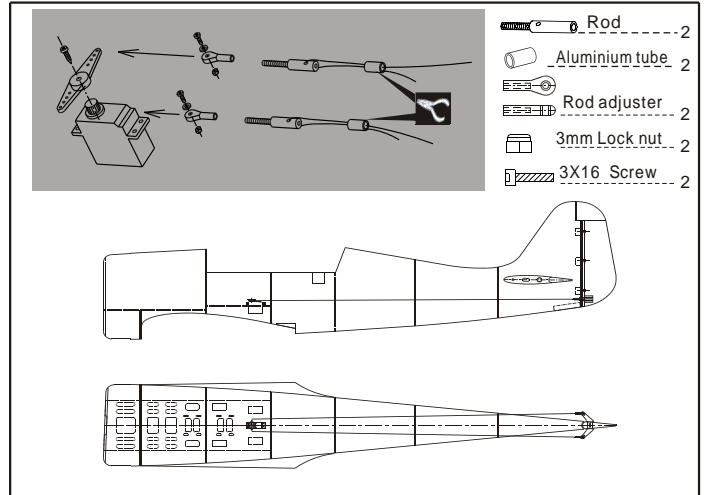
28 Install the servo of rudder



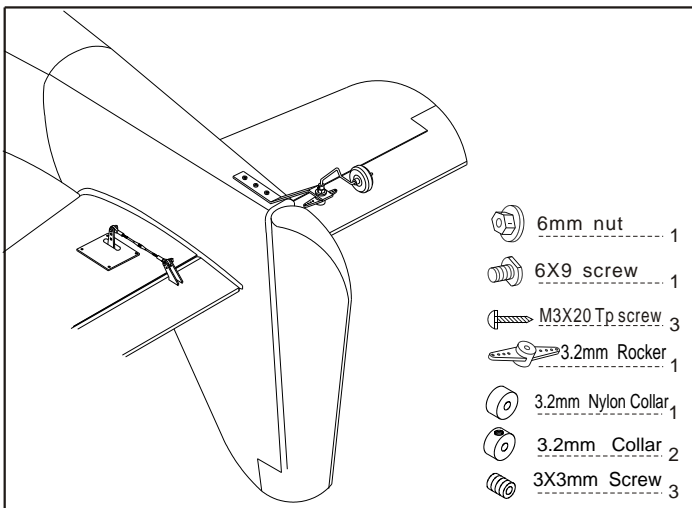
26 Install the rudder and tail wheel



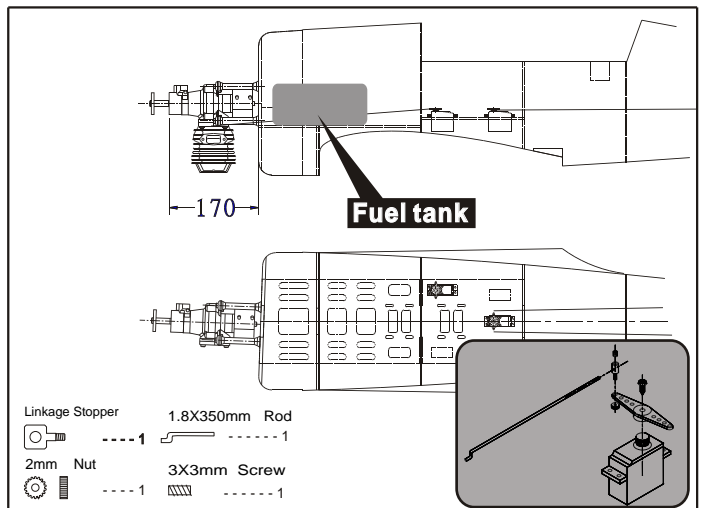
29 Install the rudder and tail wheel



27 Install the rudder and tail wheel

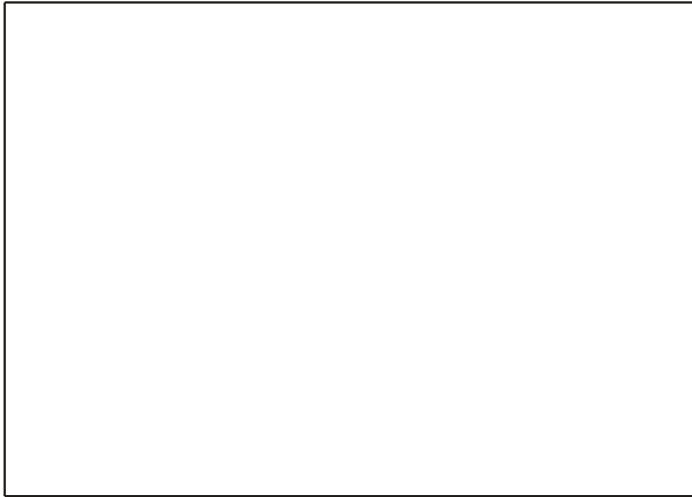


30 Install the engine. Engine:50cc



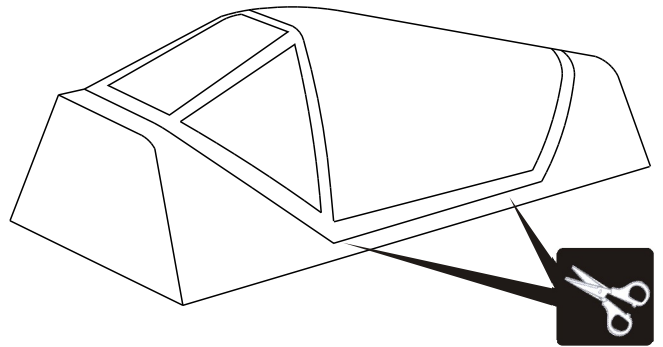


Accessory list for this page.



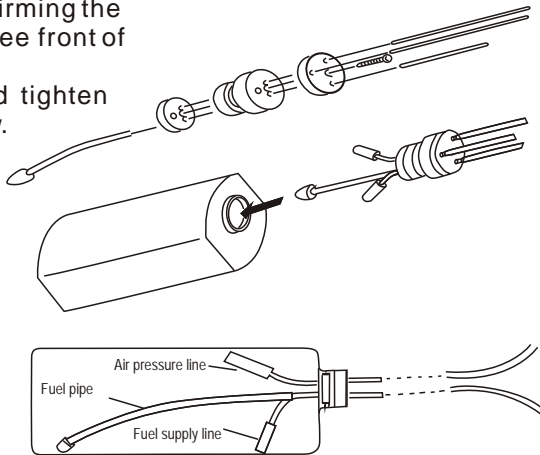
33 Install the canopy

Cut away the surplus parts of canopy care fully along the shaded line.



31 Assembly of the full tank

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

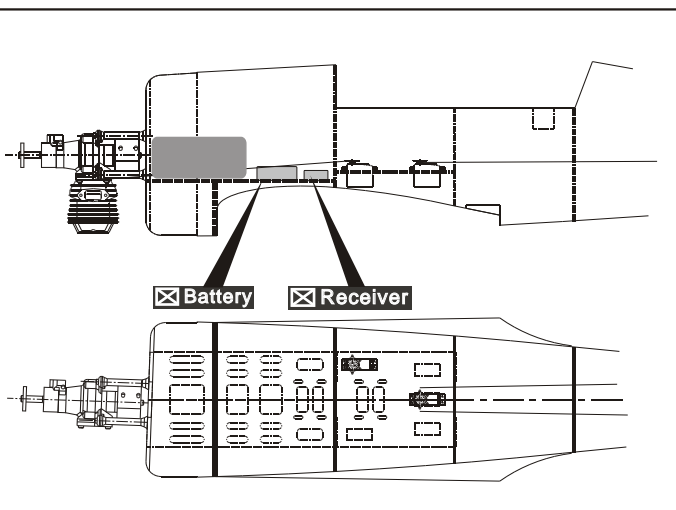


34 Install the canopy

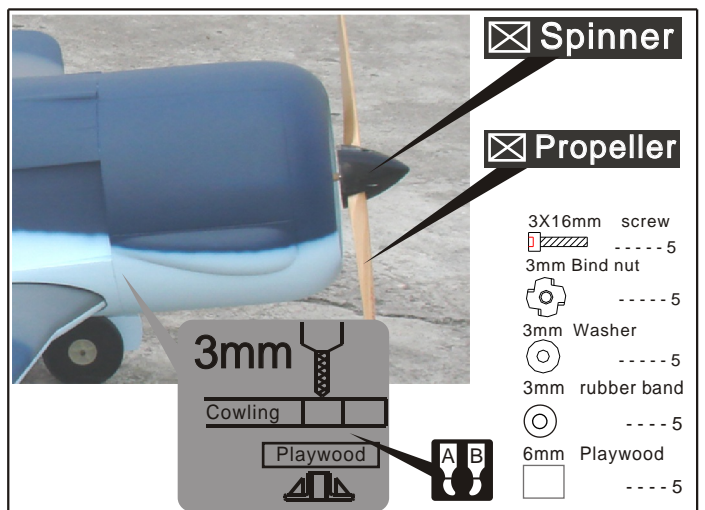


	3X30mm screw		3mm Washer		3mm rubber band		2.3X10mm Tp screw
-----	2	-----	2	-----	2	-----	8

32 Radio Equipment



35 Install the cowling



Spinner

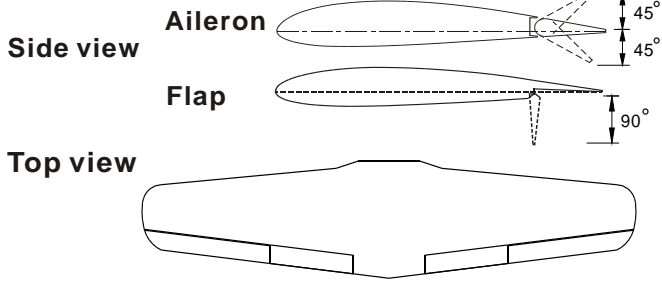
Propeller

	3X16mm screw
-----	5
	3mm Bind nut
-----	5
	3mm Washer
-----	5
	3mm rubber band
-----	5
	6mm Playwood
-----	5

36 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.

AILERON



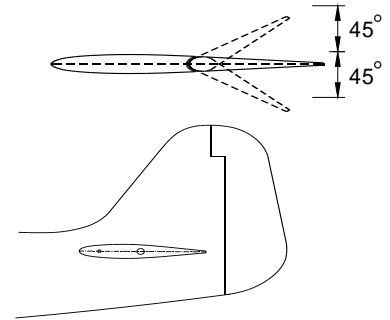
38 Adjustment

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.

Rudder

Side view

Top view



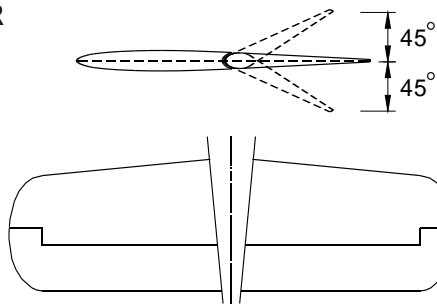
37 Adjustment.

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.

ELEVATOR

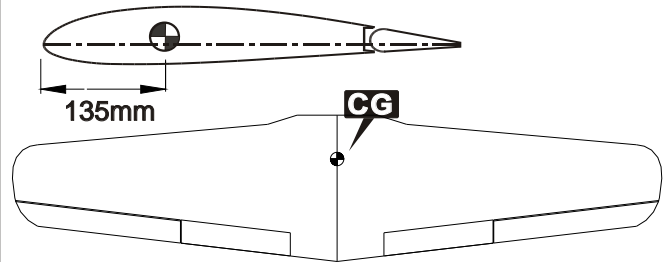
Side view

Top view



39 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.