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CESSNA 310

Item Nr: CY8109



Instruction Manual

Before commencing assembly, please read these instructions thoroughly.

ALMOST - READY - TO - FLY



Warning!

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 childrens 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: 3200 mm (126 in)
Wing Area: 128.4 dm² (1990 sq. in)
Total Length: 2165 mm (85.2 in)
Radio : 5 channels , 8 servos
Engine : 4C , 1.40 cu.in (a pair)
26cc gas (a pair)

REQUIRED FOR OPERATION (Purchase separately)

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

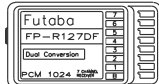


CAUTION: Only use a minimum 5channel radio for airplanes! (No other radio may be used!)

A minimum 5 channel transmitter for airplanes.



12 AA-size Batteries



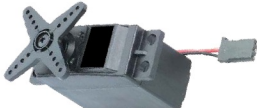
Receiver



remote control

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

- 2** Battery (need 3)  Switch (need 3) 

- 3** Servo(need 8 servos) 

- 4** Engine and Muffler
Model Airplane engine: 4c 1.40-1.60cu.in (a pair)
26cc gas engine (a pair)



Muffler



Ignition






Muffler



Ignition



- 5** Glue  
Epoxy Glue Instant glue

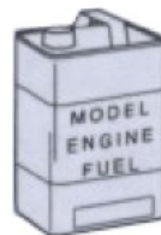
- 6** required for engine starting  **WARNING:** Normal gasoline cannot be used with glow engines.



Fuel Pump

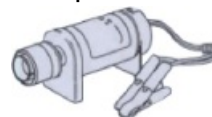


Plug Wrench

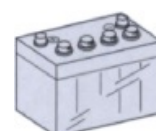


- 7** Silicone Tube  Fuel Filter 

- 8** Other equipment for enhancing airplane operation & performance



Engine Starter



12V Battery (for starter)

- 9** Purchase a propeller that will match your engine 
16X10----18X10

TOOLS REQUIRED (Purchase separately)

Sharp Hobby Knife



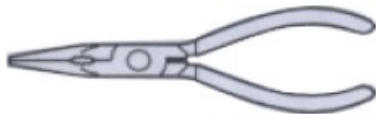
Phillips Screw Driver



Awl



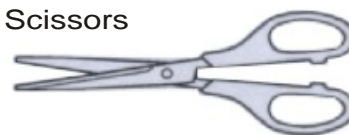
Needle Nose Pliers



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.



Do not overlook this symbol.



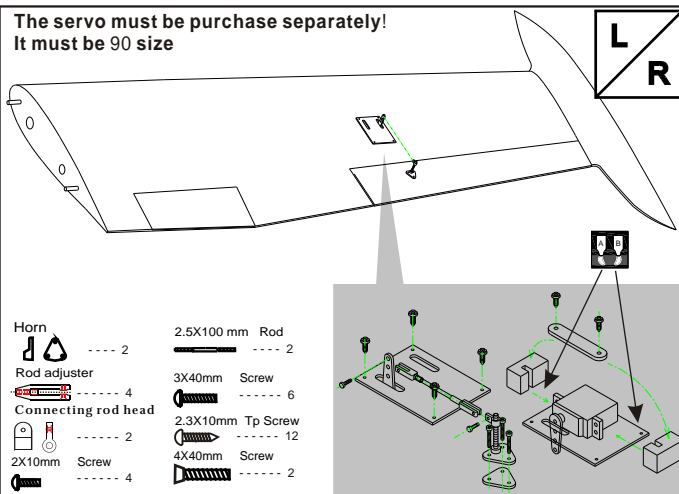
Accessory list for this page.

2.5X100 mm Rod	2	2.5X45 mm Rod	2
Horn	4	3X40mm Screw	6
Horn	2	2.3X10mm Tp Screw	24
Rod adjuster	8	4X40mm Screw	4
Connecting rod head	4	Hinge	4
2X10mm Screw	8	Hinge	8
		3X12mm Tp Screw	6

3

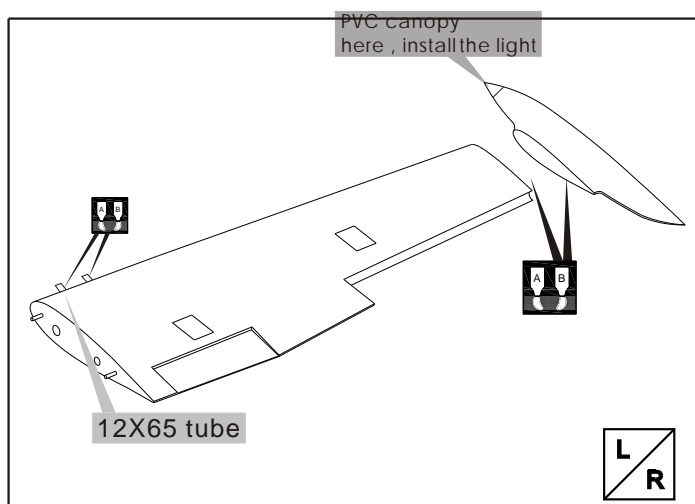
Install the aileron servo

The servo must be purchase separately!
It must be 90 size



1

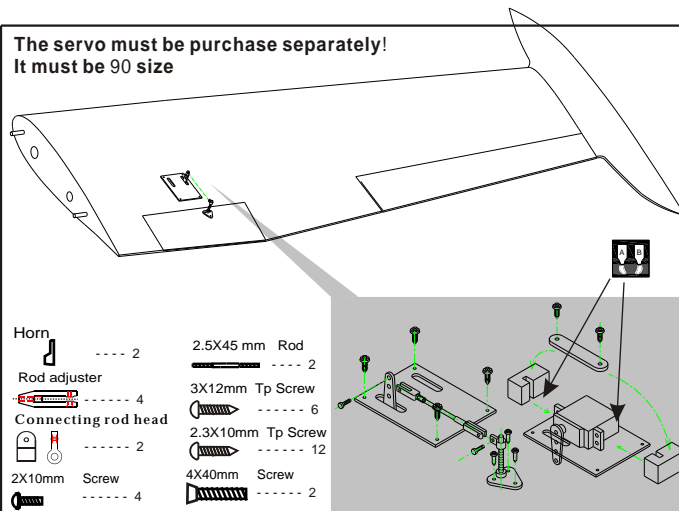
Assemble the wingtip



4

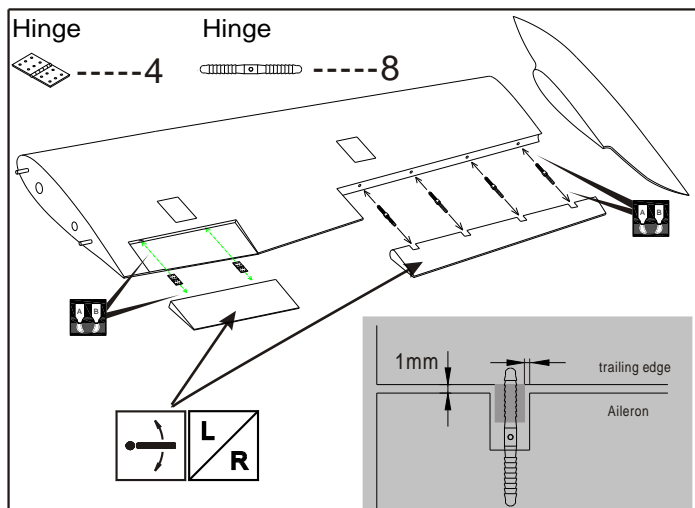
Install the flap servo

The servo must be purchase separately!
It must be 90 size



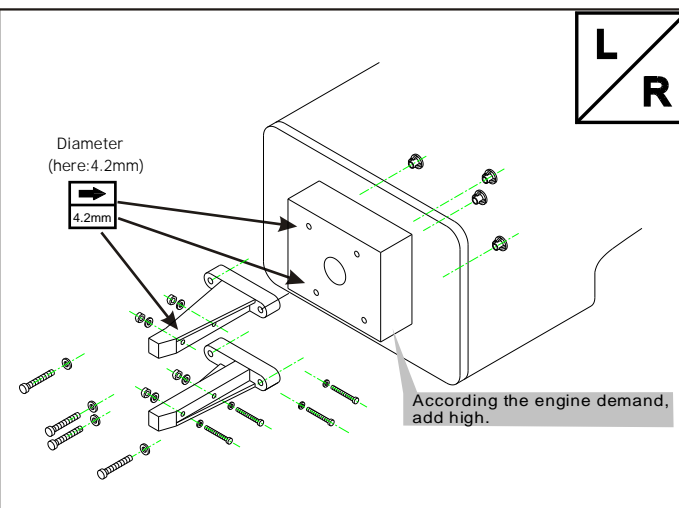
2

Assemble the aileron and flap



5

Assemble the engine mount





Accessory list for this page.

8mm nylon Nut



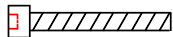
----- 4

5mm Washer



----- 4

5X55mm Screw



----- 4

Linkage Stopper



----- 2

3X3mm Screw



----- 2

2mm Nut



----- 2

1.8X400mm Rod

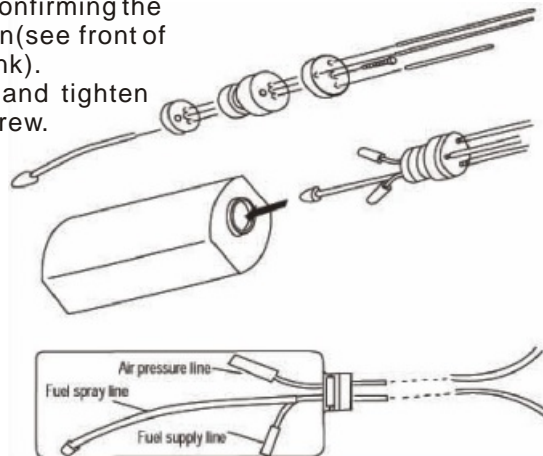


----- 2

8

Assembly of the fuel tank

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



6

Assemble the engine

Linkage Stopper



----- 2

2mm Nut



----- 2

1.8X400mm Rod



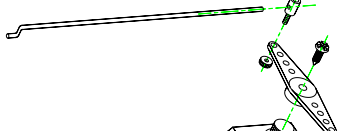
----- 2

3X3mm Screw



----- 2

The throttle servos can be a standard servos.



Put the line into the wing, then, into the main fuselage

Fuel tank

180mm

Engine:

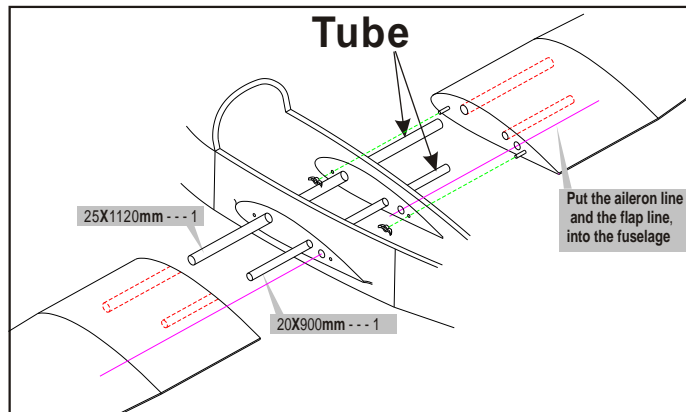
4C,1.40cu.in(a pair)



9

Main wing

Tube



Put the aileron line and the flap line, into the fuselage



8mm nylon Nut



----- 4

7

Assemble the engine



Engine:

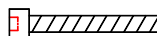
26cc gas(a pair)

10

Main wing



5X55mm Screw



----- 4

5mm Washer



----- 4



Accessory list for this page.

5X45mm Axletree

--- 2

3X25mm Tp Screw

----- 12

5.2mm Collar

----- 3

3X3mm Screw

----- 6

5X40mm Axletree

--- 1

8mm tube

----- 4

750mm steel wire

----- 2

4X3mm Screw

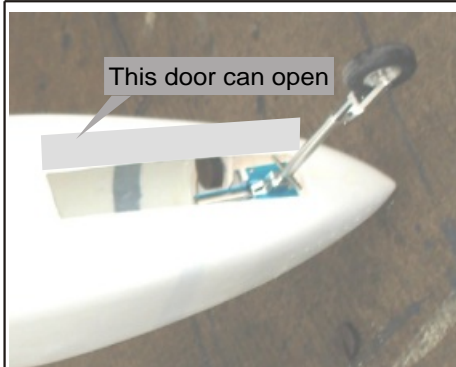
----- 3

Hinge

----- 8

13

Install the nose landing gear.



5X40mm Axletree

----- 1

8mm tube

----- 4

750mm steel wire

----- 2

5.2mm Collar

----- 1

3X25mm Tp Screw

----- 4

3X3mm Screw

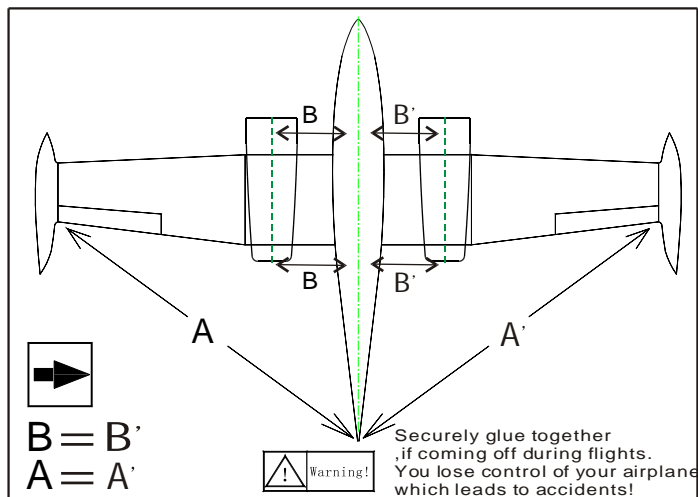
----- 2

4X3mm Screw

----- 1

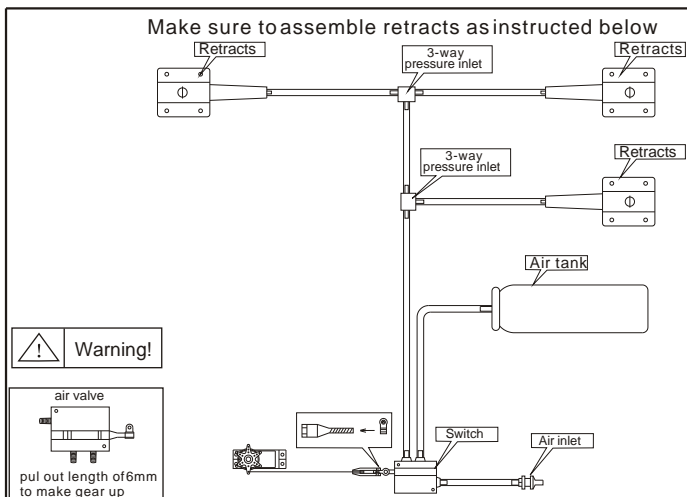
11

Checking the wing



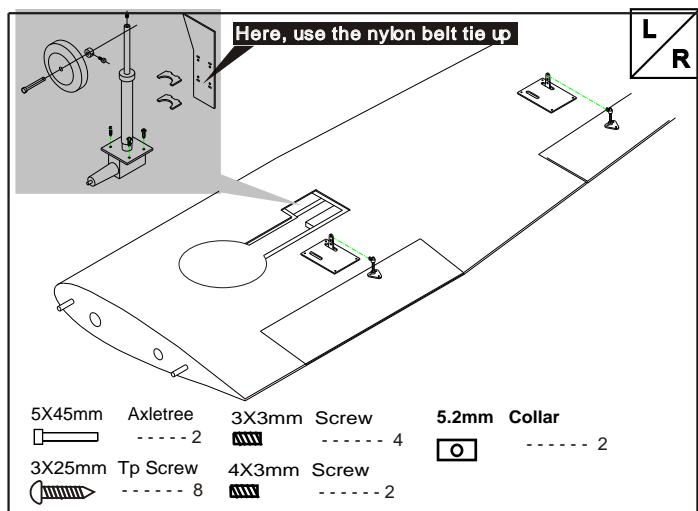
14

Three wheel retract system



12

Install the main landing gear.



5X45mm Axletree

----- 2

3X25mm Tp Screw

----- 8

3X3mm Screw

----- 4

4X3mm Screw

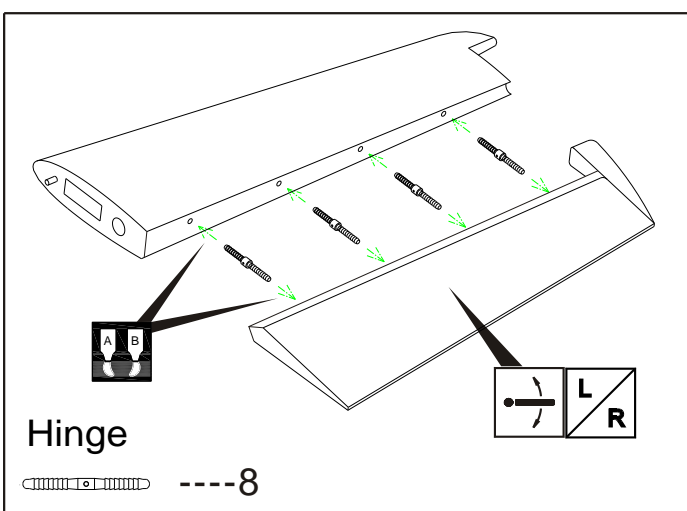
----- 2

5.2mm Collar

----- 2

15

Horizontal tail.





Accessory list for this page.

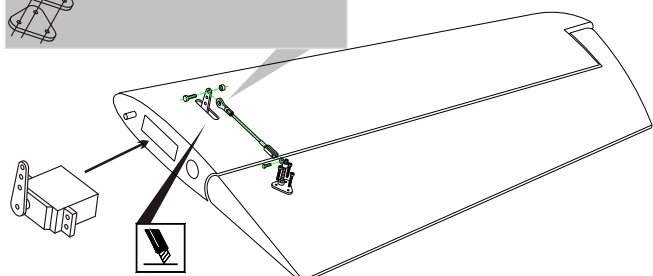
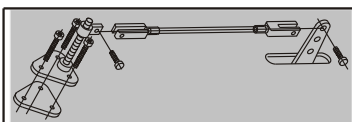
2X10mm Screw	2.5X100 mm Rod	Hinge
----- 8	----- 2	----- 4
Rod	8mm tube	3X20mm Screw
----- 4	----- 8	----- 2
Horn	950mm steel wire	3mm Washer
----- 4	----- 2	----- 2
Horn	3X40mm Screw	Connecting rod head
----- 2	----- 9	----- 4
Rod adjuster	4X40mm Screw	3mm Nut
----- 8	----- 4	----- 3
8mm nylon Nut		
----- 2		

18 Horizontal&Vertical tail.



8mm nylon Nut
----- 2
3X20mm Screw
----- 4
3mm Washer
----- 4

16 Install the elevator servo



The servo must be purchase separately!
It must be 90 size

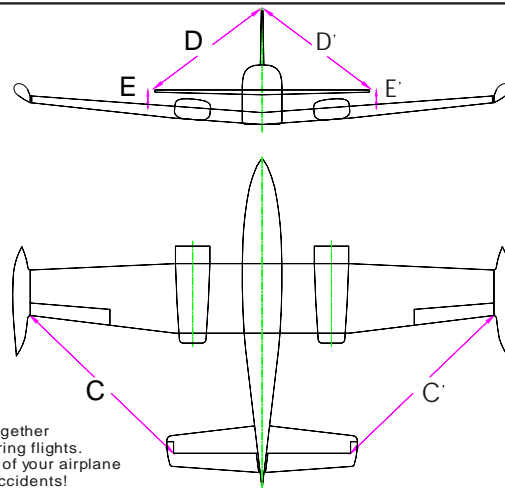


2X10mm Screw
----- 4
2.5X100 mm Rod
----- 2
Rod adjuster
----- 4
Horn
----- 2
Connecting rod head
----- 2
3X40mm Screw
----- 6
4X40mm Screw
----- 2

19 Horizontal&Vertical tail.

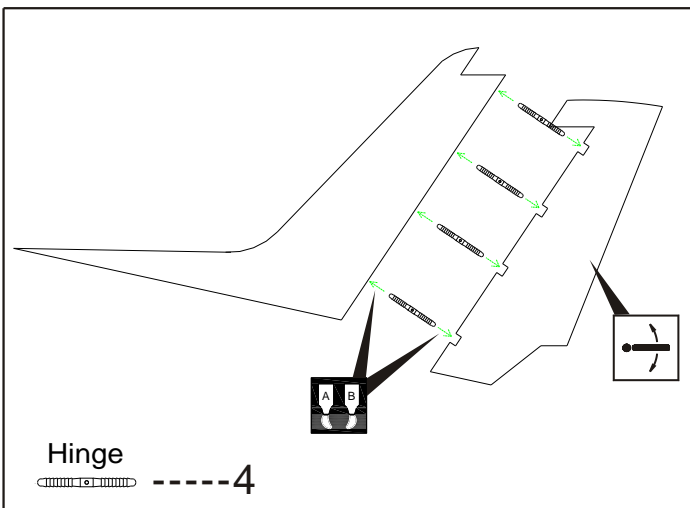


$C = C'$
 $D = D'$
 $E = E'$



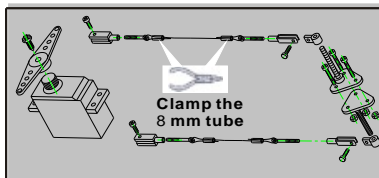
Securely glue together
if coming off during flights.
You lose control of your airplane
which leads to accidents!

17 Install the rudder



Hinge
 ----- 4

20 Install the rudder servo



The servo must be purchase separately!
It must be 90 size

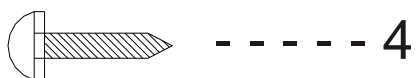


2X10mm Screw	3mm Nut
----- 4	----- 3
Rod	8mm tube
----- 4	----- 8
Horn	950mm steel wire
----- 2	----- 2
Rod adjuster	3X40mm Screw
----- 4	----- 3
Connecting rod head	4X40mm Screw
----- 2	----- 2



Accessory list for this page.

2.3X10 Tp screw

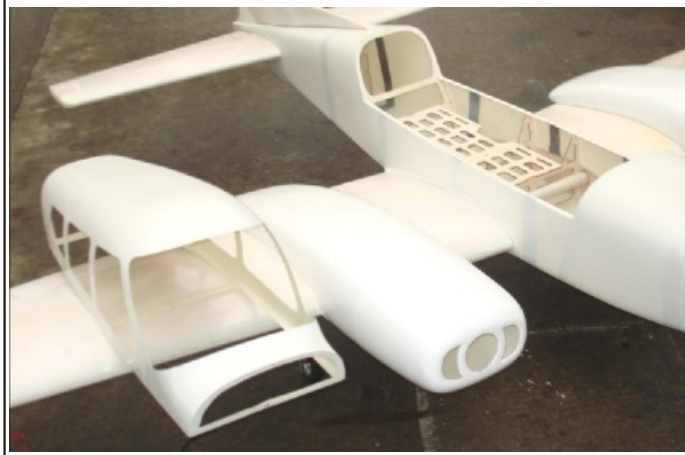


2.6X12 Tp screw



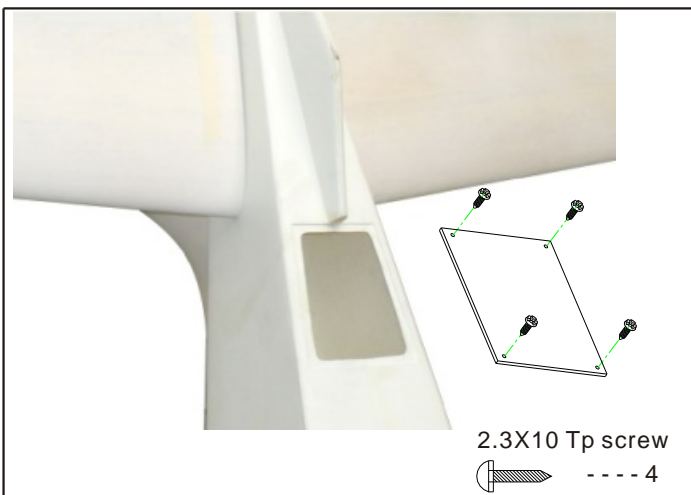
23

Assemble the canopy



21

Install the cover



2.3X10 Tp screw
----- 4

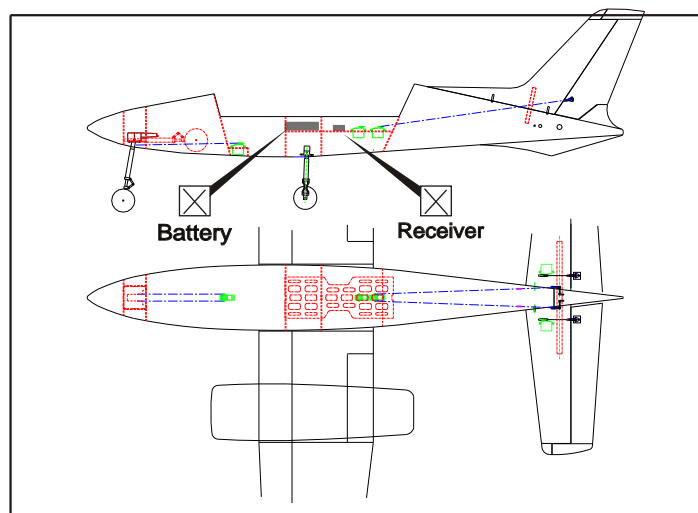
24

Assemble the canopy



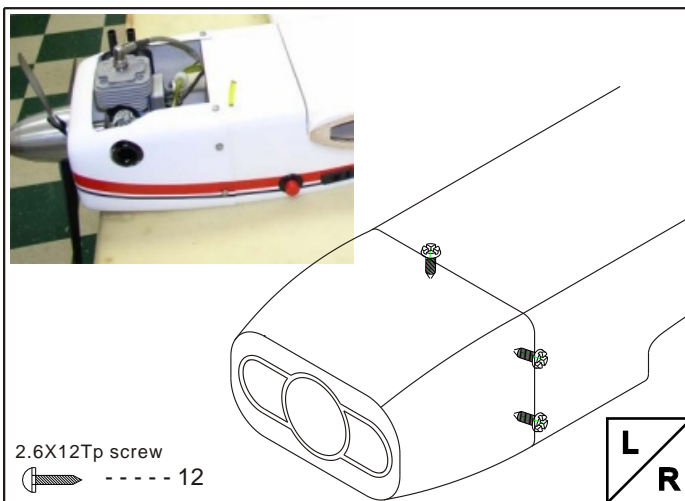
22

Radio Equipment



25

Assemble the cowl



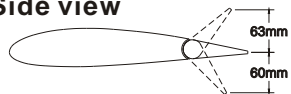
2.6X12Tp screw
----- 12

26 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.

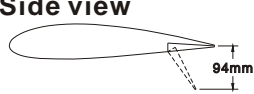
AILERON

Side view

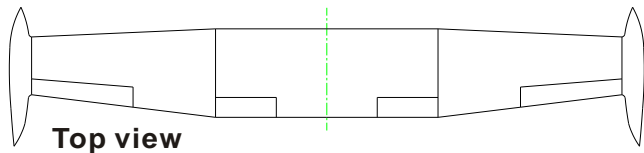


Falp

Side view



Top view



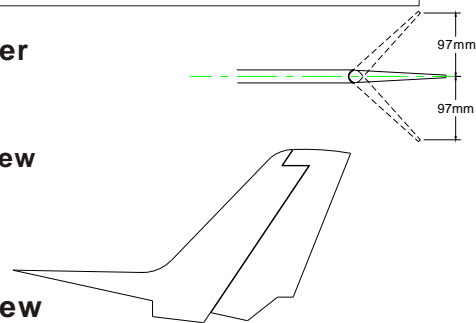
28 Adjustment

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

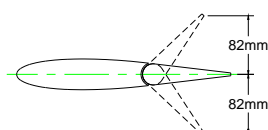


27 Adjustment.

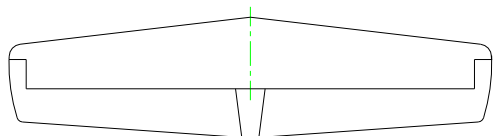
Adjust the travel of each control surface to the values in the diagrams.
These values fit general flight capabilities.
Readjust according to your needs and flight level.

ELEVATOR

Side view

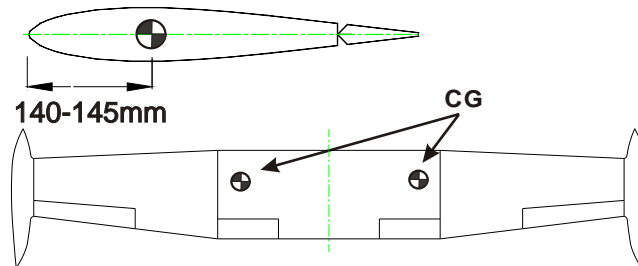


Top view



29 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.

30 Spread a diagram