

Before commencing assembly, please read these instructions thoroughly.



TL-ULTRALIGHT



Warning!

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.

SPECIFICATION

Wing Span: 2650 mm (104.3 in)
Wing Area: 84.2 dm² (1305.4 sq. in)
Total Length: 2030 mm (79.9 in)
Engine : 50 cc gas engine
Radio : 5 channels , 7 servos

REQUIRED FOR OPERATION (Purchase separately)

- 1 A minimum 5 channel radio for airplanes (with 7 servos). And dry batteries.



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

A minimum 5 channel transmitter for airplanes.



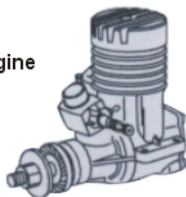
12 AA-size Batteries



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

- 2 Engine and Muffler
Model Airplane engine
50 cc gas engine

Muffler



Glow plug

Purchase a propeller that will match your engine



- 3 Propeller splinner

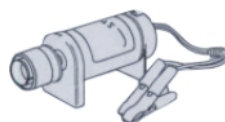
- 4 Silicone Tube Fuel Filter
- 5 required for engine starting Fuel Pump Plug Wrench Glow engine fuel only.



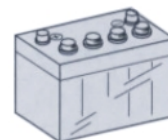
WARNING: Normal gasoline cannot be used with glow engines

- 6 Glue Instant glue Epoxy Glue

- 7 Other equipment for enhancing airplane operation & perormance



Engine Starter



12V Battery (for starter)



Ignition

TOOLS REQUIRED (Purchase separately)

Sharp Hobby Knife



Phillips Screw Driver



Awl



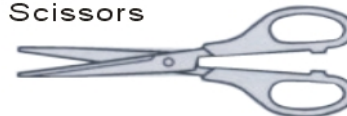
Needle Nose Pliers



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.

Pin hinges

 ----- 10

Horn

 ----- 4

 ----- 4

Connecting rod head

 ----- 4

M2X8mm Screw

 ----- 8

Rod (2.5x100mm)

 ----- 4

Rod adjuster

 ----- 8

M3X20mm Screw

 ----- 4

M3X25mm Screw

 ----- 8

M4X35mm Screw

 ----- 4

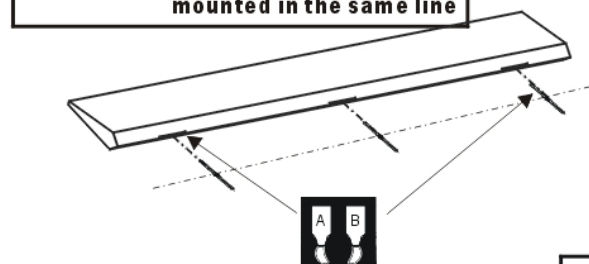
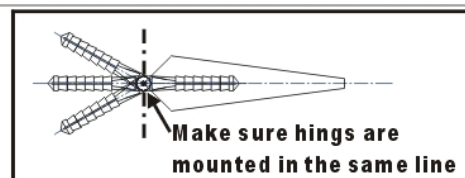
3

Install the servo



1

Epoxy pin hinges to aileron steadily

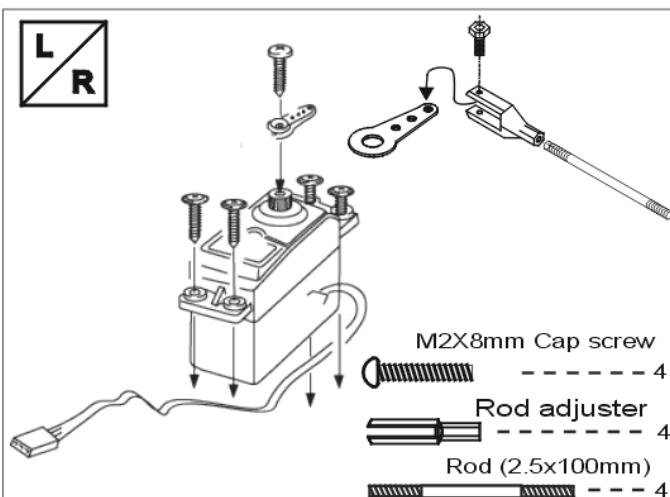


 ----- 10




4


Install the servo




M2X8mm Cap screw

 ----- 4

Rod adjuster

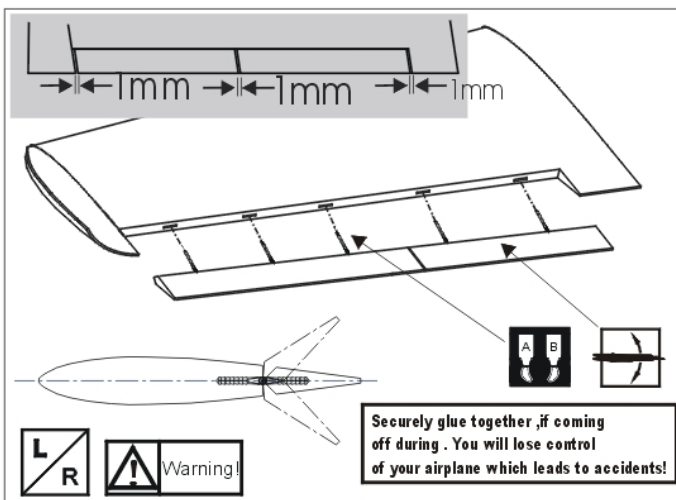
 ----- 4

Rod (2.5x100mm)

 ----- 4

2

Install the aileron

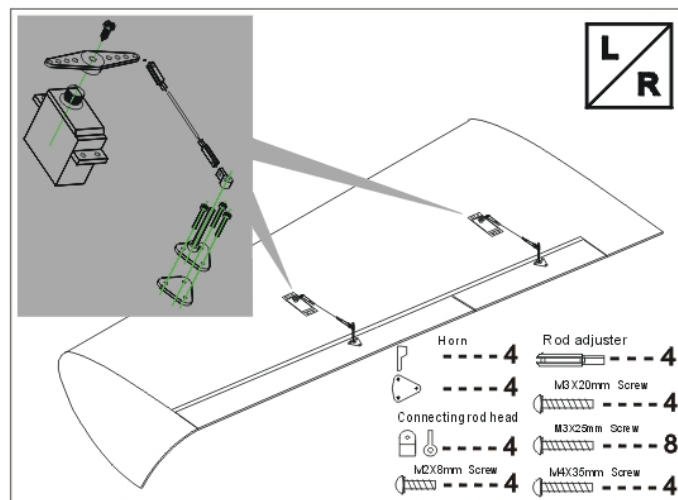


Warning!

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

5

Install the horn



Horn

 ----- 4

Connecting rod head

 ----- 4


M2X8mm Screw

 ----- 4


Rod adjuster

 ----- 4

M3X20mm Screw

 ----- 4

M3X25mm Screw

 ----- 8

M4X35mm Screw

 ----- 4



Accessory list for this page.



Nylon nut

-----4



Pin hinges

-----4

8

Epoxy the horizontal tail



Warning!

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

6

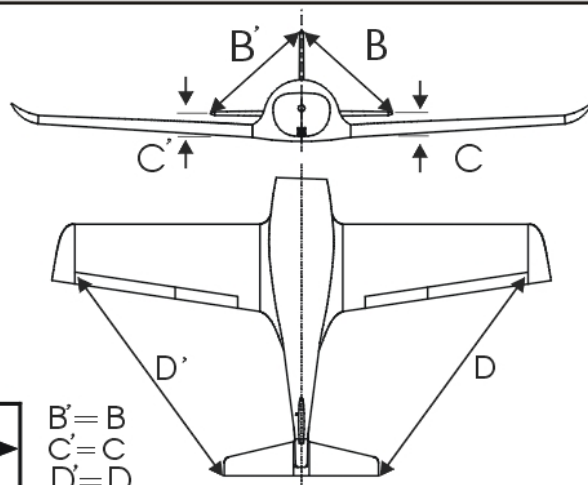
Install the lamp-chimney



Flash light line

9

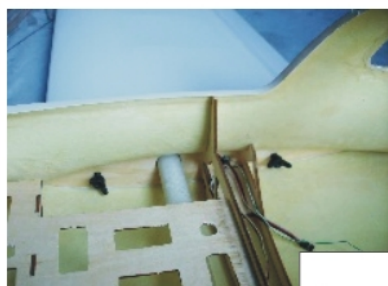
Assemble horizontal tail



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

7

Install the main wing

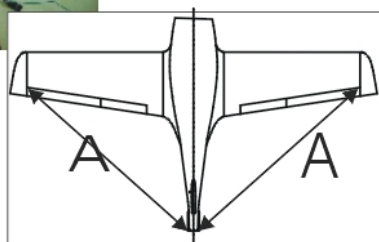


Nylon nut

-----4

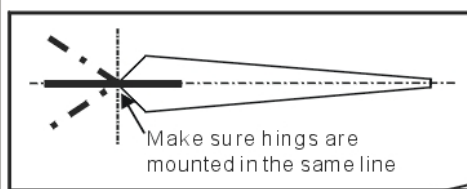


A = A

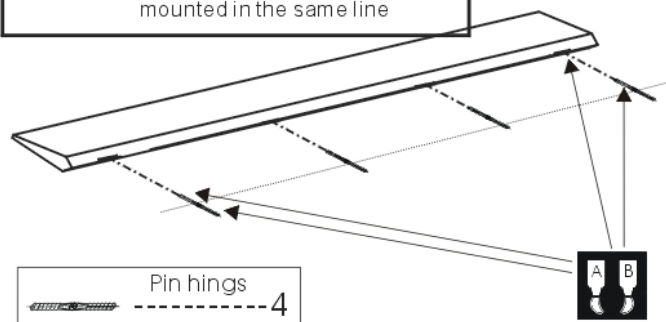


10

Epoxy pin hinges to elevator



Make sure hinges are mounted in the same line



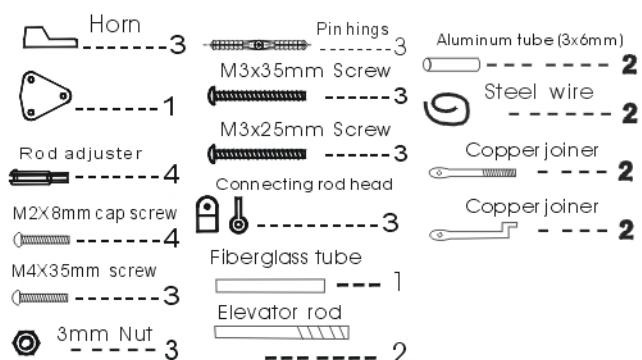
Pin hinges

-----4





Accessory list for this page.



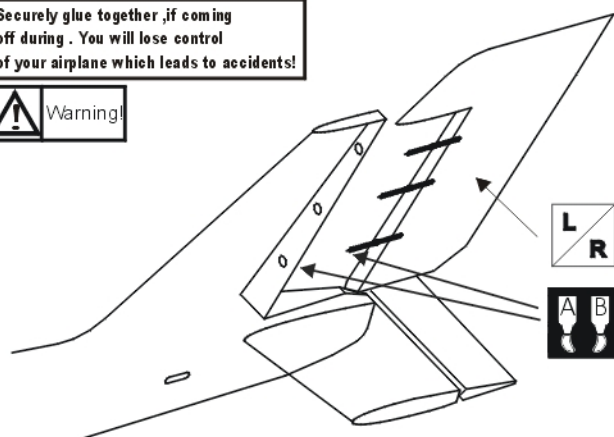
13

Assemble horizontal tail, vertical tail, tail gear separately

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



Warning!



11

Epoxy pin hinges to elevator

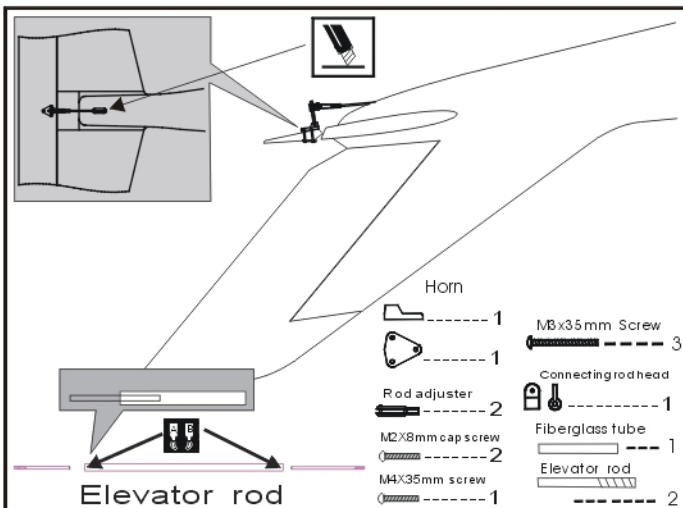


Warning!

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

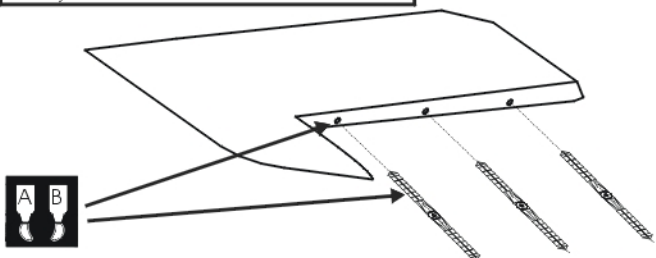
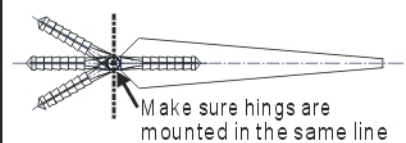
14

Elevator. Connect the linkage rod to the horn



12

Epoxy pin hinges to rudder

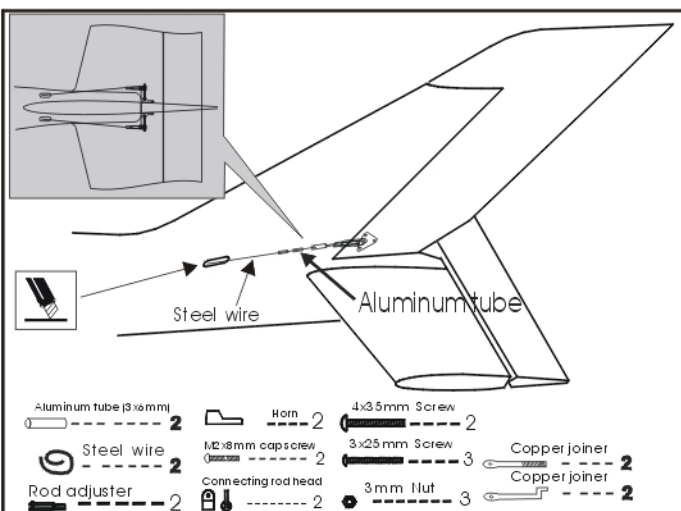


Pin hinges

3

15

Rudder. Connect the linkage rod to the horn



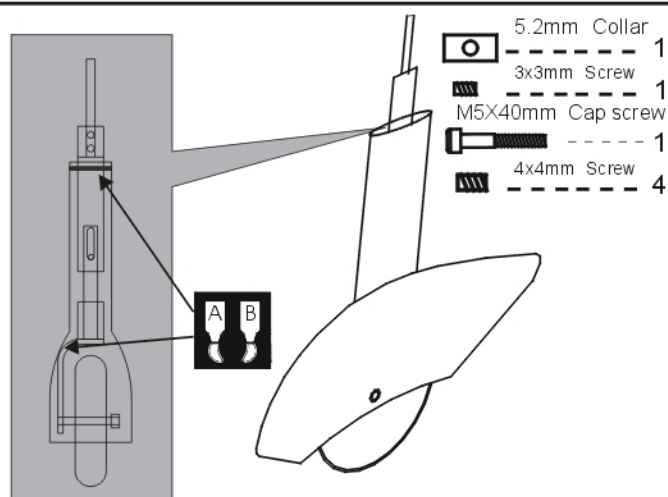


Accessory list for this page.

	Bland nut (4mm)	-----	6
	M4X25mm cap screw	-----	6
	M5X40mm Cap screw	-----	1
	4x4mm Screw	-----	5
	Bland nut (3mm)	-----	4
	M3X25mm Cap screw	-----	4
	Copper joiner	-----	2
	Steel wire	-----	2
	5.2mm Collar	-----	5
	3x3mm Screw	-----	5
	M5X60mm Cap screw	-----	2
	M3X14mm Cap screw	-----	2
	Set Nut	-----	2
	5mm Lock Nut	-----	4
	Rod adjuster	-----	2
	M2X8mm cap screw	-----	2
	Aluminum tube (3x6mm)	-----	4

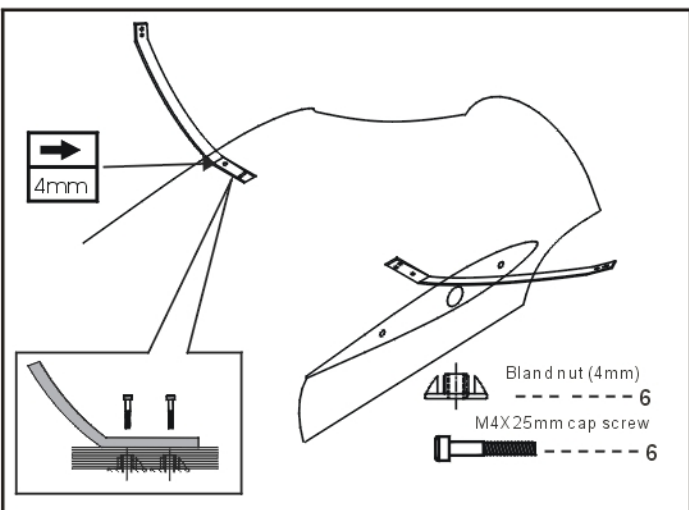
18

Attach tlanding wire to oleo strut



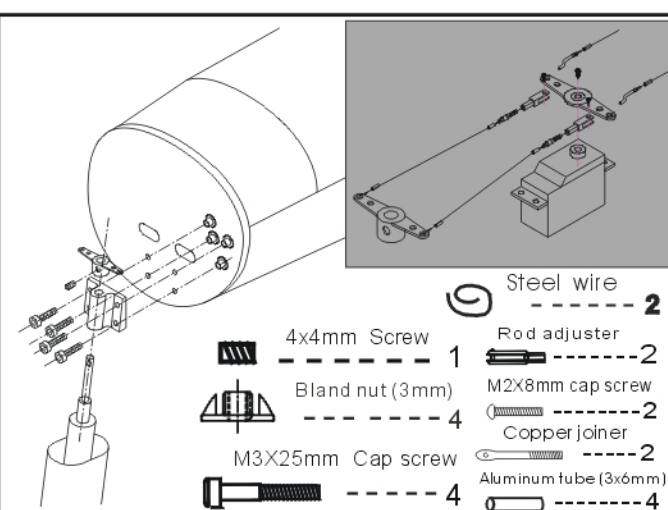
16

Install the main landing gear



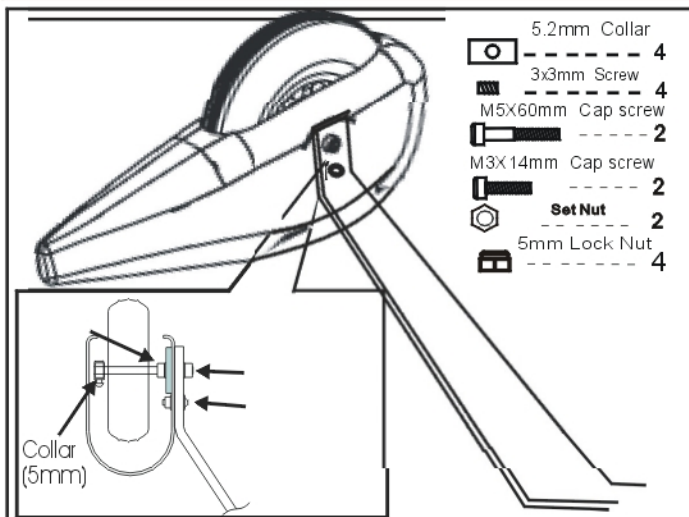
19

Connect the rod to the arm as shown



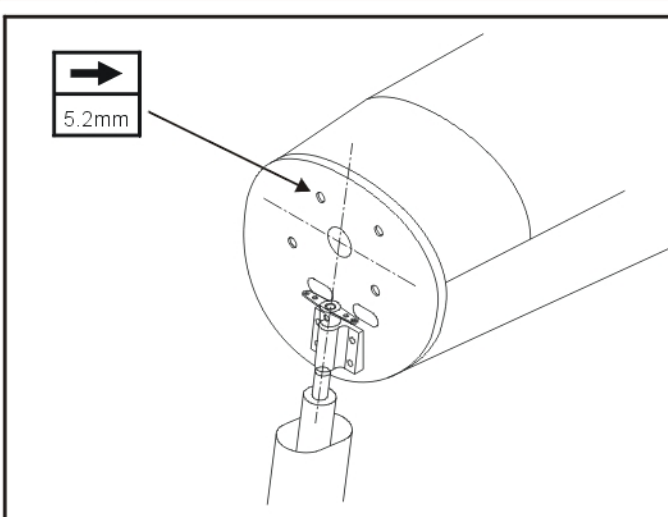
17

Attach wheel pant to landing gear



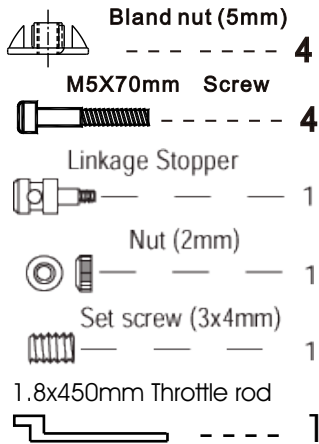
20

Drill four holes at the diameters as shown



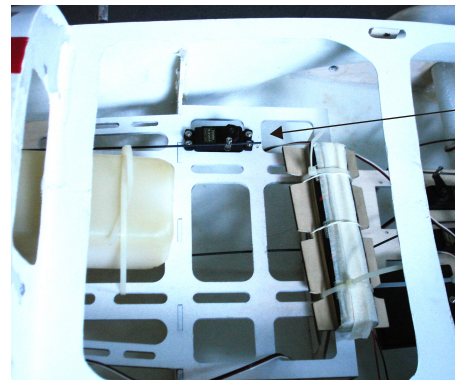


Accessory list for this page.

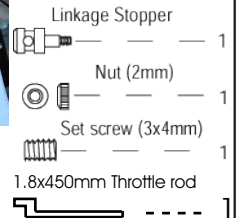


23

Mount the fuel into the fuselage



Throttle servo



Fuel tank

-----1

21

Assemble the engine



Bland nut (5mm)

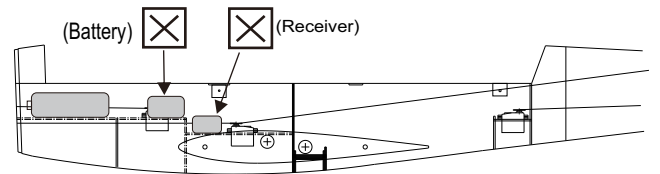
----- 4

M5X70mm Screw

----- 4

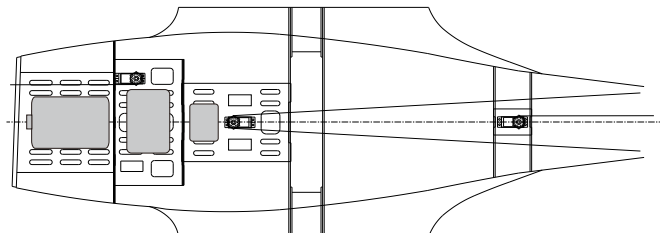
24

Install the nylon control ring for switch and connect the linkage



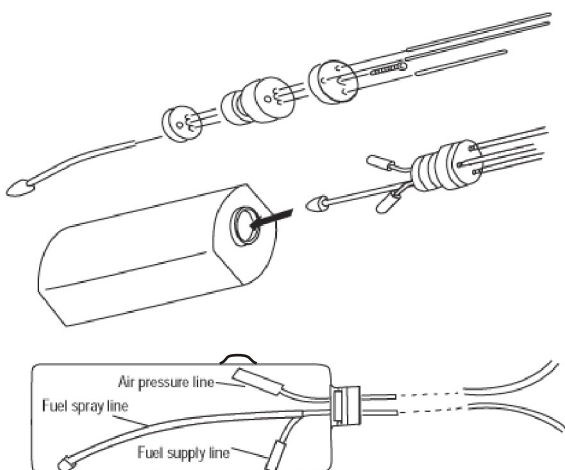
(Battery)

(Receiver)



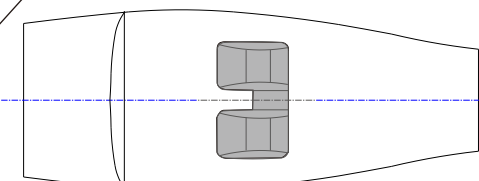
22

Assembly of the fuel tank



25

Cut off the surplus part along the shaded area





Accessory list for this page.

M3X12mm Cap Screw



M3X25mm Cap Screw



Washer
-----8

28

26

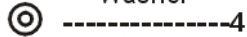
Instrument board



M3X25mm Cap Screw



Washer



29

27

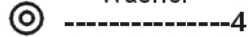
Install the cowl



M3X12mm Cap Screw



Washer



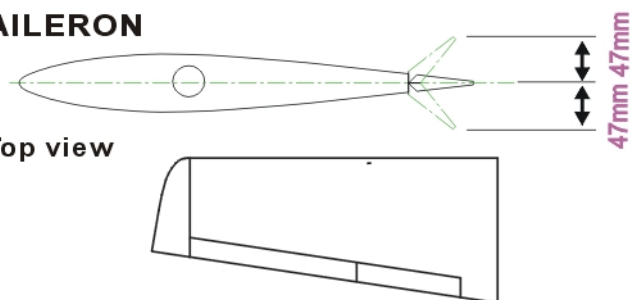
30

31 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.

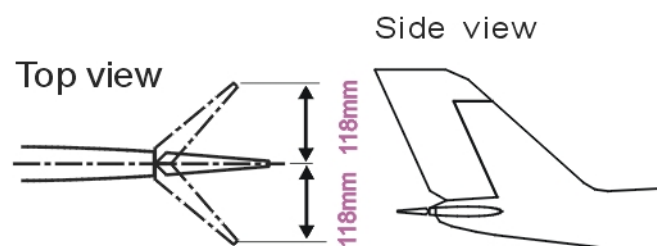
AILERON

Top view



33 Adjustment.

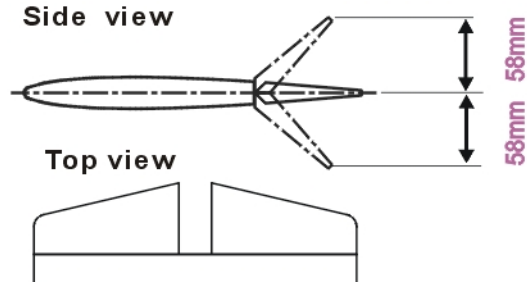
Adjust the travel of each control surface to the values in the diagrams.
These values fit general flight capabilities.
Readjust according to your needs and flight level.



32 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.

Side view



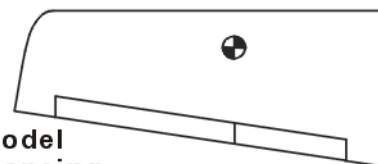
34 Centre of Gravity.

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.



35 Spread a diagram