

Instruction Manual

Before commencing assembly, please read these instructions thoroughly.

Ranger



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.....1854 mm (73 in)
Wing Area.....46.4 dm² (719 sq.in)
Total Length....1800 mm (71 in)
Radio.....9 channels , 8 servos
Engine.....8-12 KG thrust turbines

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.

Accessories packing list

	-----horn-----	14
	-----horn tray-----	7
	-----Clevis)-----	14
	-----M2x12mm screw-----	14
	-----Locknut-----	14
	-----M3x12mm screw-----	16
	-----" L " frame-----	16
	-----3x5 screw-----	16
	-----push rod M2.5x 80mm---	4
	-----push rod M2.5x 45mm---	1
	-----push rod M2.5x 40mm---	2

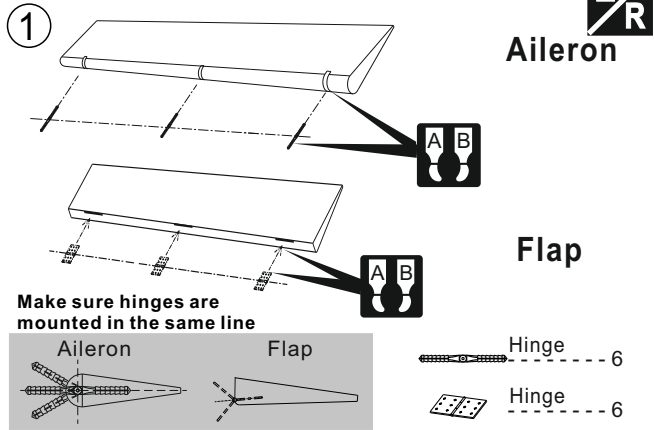
	-----M4x25mm screw-----	3
	-----4mm washer-----	1
	-----M4 Four claw nut-----	2
	-----2.6x8 Tp screw-----	10
	-----M5x25 mm screw-----	4
	-----M3x18 mm screw-----	4
	-----2.6x12 Tp screw-----	12
	-----Ø 5 Washer-----	4
	-----Ø 3 Washer-----	4
	-----butterfly nut (M6)-----	1

	-----nut-----	6
	-----M3x12 mm screw-----	6
	-----Aileron servo tray-----	4
	-----Elevator servo tray-----	2
	-----rudder servo tray-----	1
	-----wingtip (A)-----	2
	-----wingtip (B)-----	2
	-----canopy-----	1
	-----Fuel tank (3000cc)-----	1
	-----exhaust nozzle-----	1
	-----Main wing tube(20*16*590mm)-----	1
	-----Main wing tube(12*8*530mm)-----	1
	-----stabilizer tube (8*4*290mm)-----	1
	-----stabilizer tube (6*4*190mm)-----	1
	-----vertical fin tube (12*10*125mm)-----	1
	-----vertical fin tube (12*10*80mm)-----	1

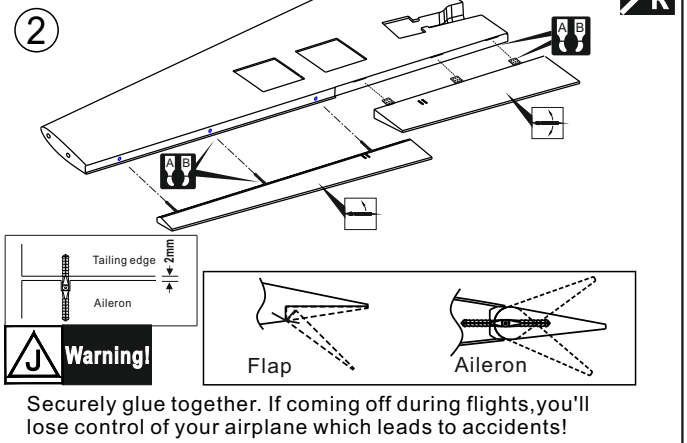
Optional parts (Electric landing gear)

	----- landing gear-----	1
	-----circuit board-----	1
	-----extension cords-----	4
	-----wrench-----	1
	-----M3x20 screw-----	8
	-----4x20 Tp screw-----	4
	-----M3 Four claw nut-----	8

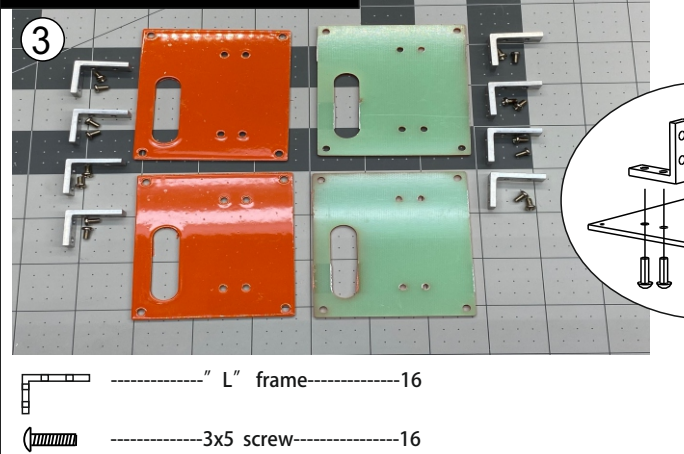
Install the aileron and flap



Apply instand type AB glue to the holes in the ailerons, flaps and hinges



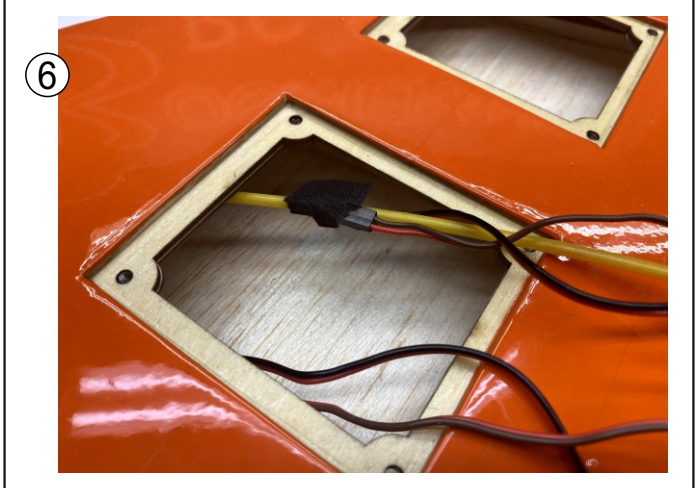
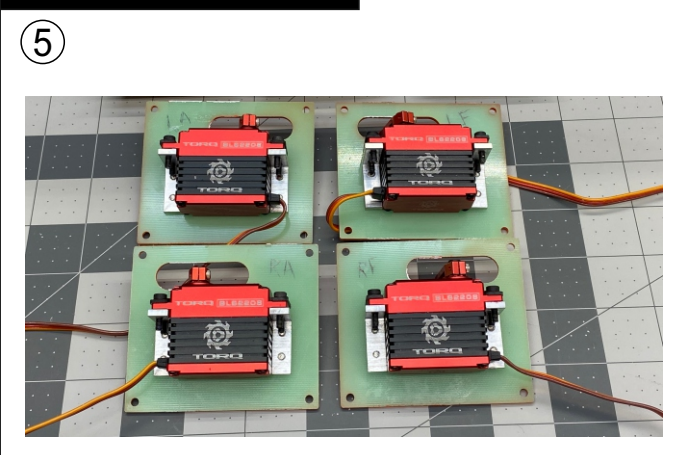
Install the L frame to the aileron servo tray



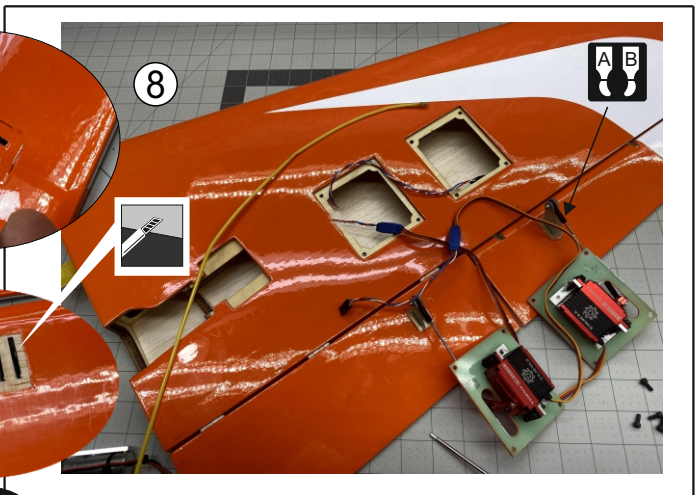
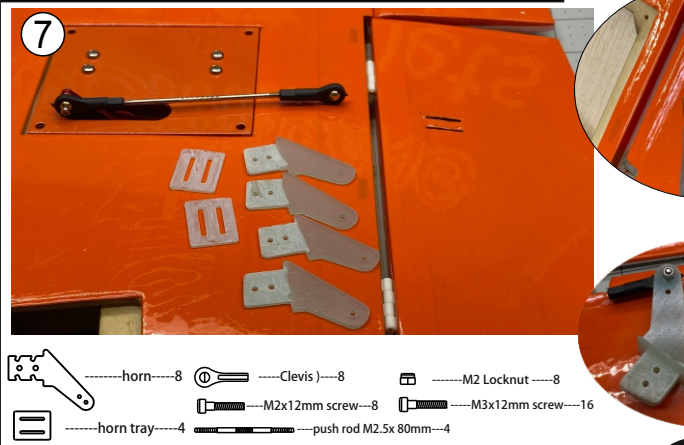
Install the L frame to the aileron servo tray



Install the L frame to the aileron servo tray



Epoxy the fiber horns to the ailerons and flaps, secure the servos. Install the nylon control horn and connect the linkage



Apply instant type AB glue to the holes in the Elevator and hinges

9

AB

L/R

make sure hinges are mounted in the same line

Hinge

8

Apply instant type AB glue to the holes in the elevator and hinges

10

AB

L/R

Warning!

Securely glue together. If coming off during flights, you'll lose control of your airplane which leads to accidents!

Install the elevator servos tray

11

Cut off shaded portion.

Install the elevator servos tray

12

3mm

Epoxy the fiber horns to the elevator, secure the servos. Install the nylon control horn and connect the linkage

13

14

1mm

Drill holes with the specified Diameter(here:1mm)

Apply instant glue (CA glue, super glue).

C.A

15

-----nut-----6

-----M3x12 mm screw-----6

16

-----horn-----4

-----Clevis-----4

-----M2 Locknut-----4

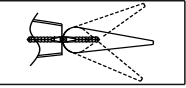
-----horn tray-----2

-----M2x12mm screw-----4

-----push rod M2.5x 40mm-----2

-----2.6x12 Tp screw-----8

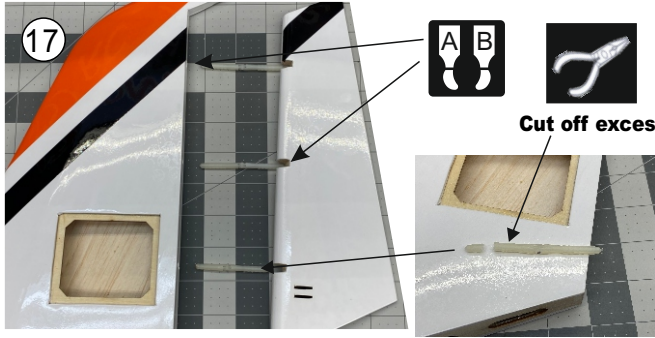
Apply instant type AB glue to the holes in the vertical fin, rudder and hinges



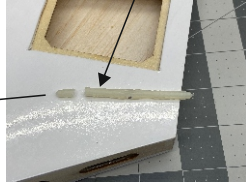
Warning!

Securely glue together. If coming off during flights, you'll lose control of your airplane which leads to accidents!

17



Cut off excess.



18



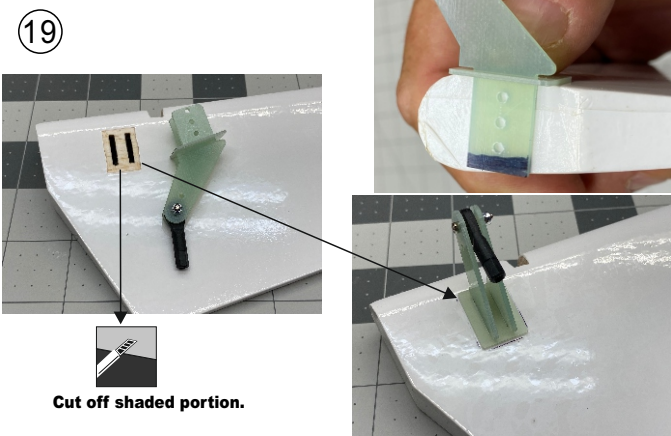
Drill holes with the specified Diameter(here:1mm)



Apply instant glue (CA glue,super glue).

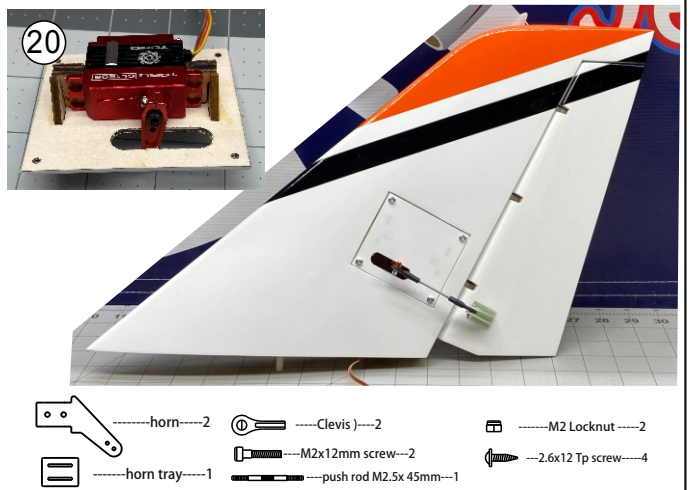
Epoxy the fiber horns to the ailerons and flaps, secure the servos. Install the nylon control horn and connect the linkage

19



Cut off shaded portion.

20



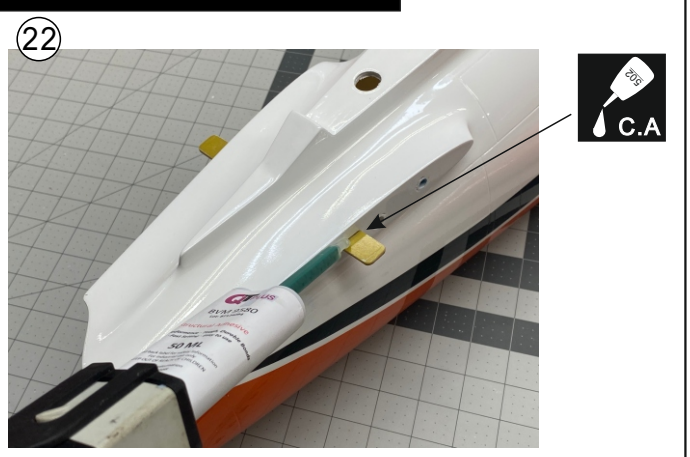
Install the stabilizer to the fuselage

21



Install the stabilizer to the fuselage

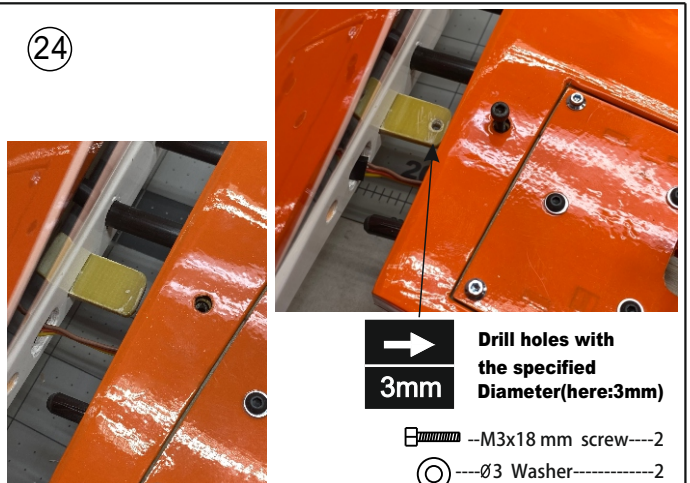
22



23



24

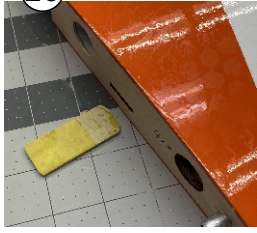


Drill holes with the specified Diameter(here:3mm)

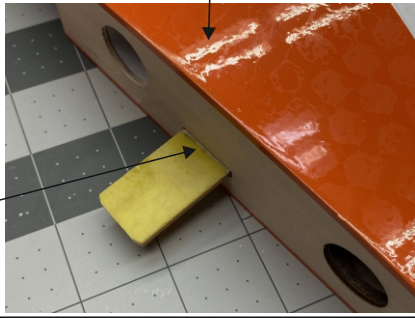


Install the fiberglass board to the wing

25

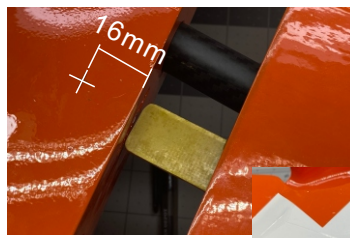


Apply epoxy glue.



Drill holes to the fiberglass board

26

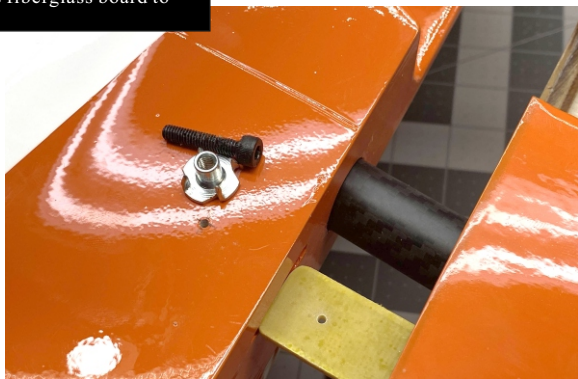


Drill holes with the specified Diameter(here:4mm)



Install the fiberglass board to the wing

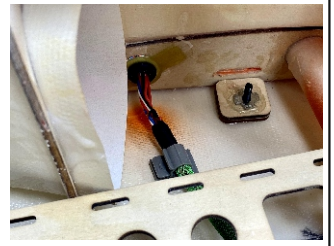
27



- M4x25mm screw-----2
- M4 Four claw nut-----2

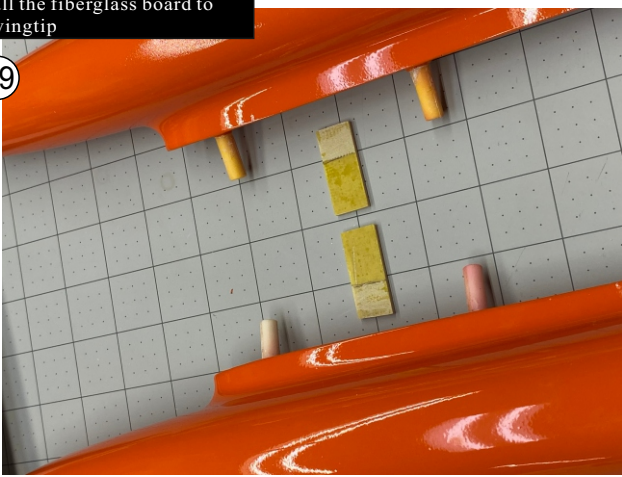


28



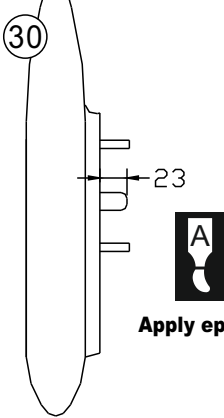
Install the fiberglass board to the wingtip

29



Install the fiberglass board to the wingtip

30



Apply epoxy glue.



Drill holes to the head wheel frame fixing seat

31



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

Apply instant glue (CA glue,super glue).

32

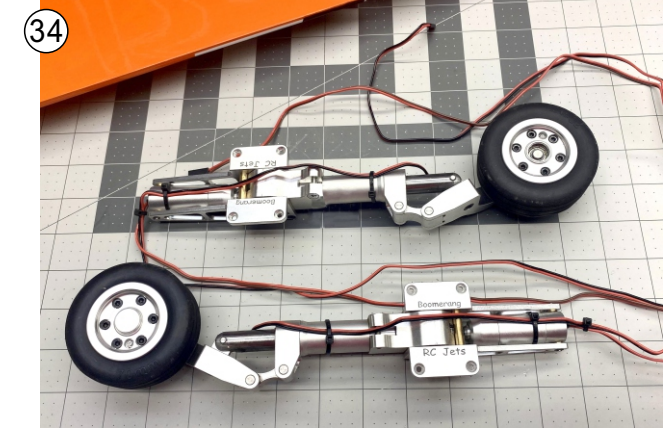


Install the front landing gear to the fuselage

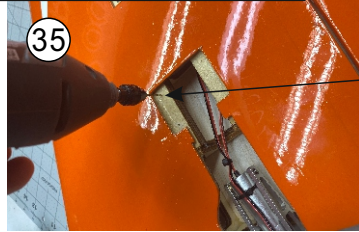


③③ -----4x20 Tp screw-----4

Assemble the landing gear



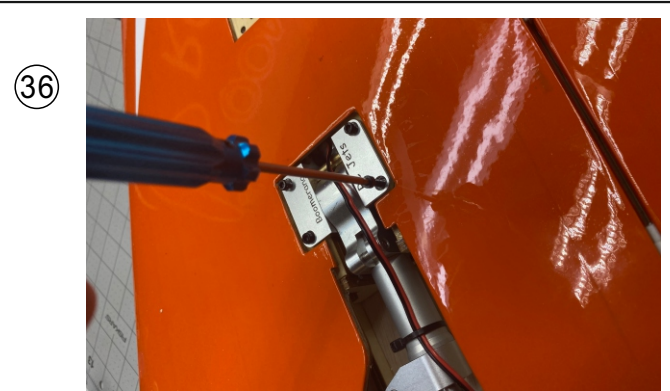
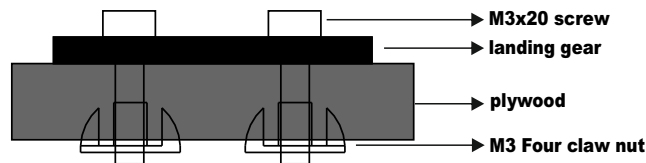
Drill holes to the head wheel frame fixing seat



③⑤

→
3mm

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



③⑥

③ -----M3x20 screw-----8 ④ -----M3 Four claw nut-----8

Please Read the manual before using the landing gear!
Boomerang RC Jets Electric Landing Gear Manual



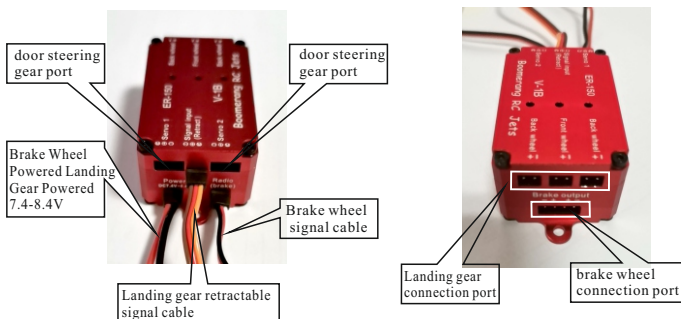
The working principle of the landing gear controller.

The start and stop of the landing gear during the retraction process can be determined by real-time monitoring of the whole working current through the control board.

When the landing gear is retracted, the instantaneous power reaches 100%, and after starting, the power is reduced to 80%.

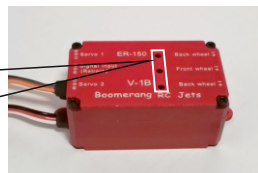
When the landing gear slider runs to the end of locked rotor, the current will increase. When the controller detects that the locked rotor current reaches the set value, it will immediately stop supplying power to the motor.

(LED light is on for power on and off for power off)



tips:

Be sure to pay attention to the working status of the 3 LED lights during debugging
When the landing gear is retracted in place, the lights go out at the same time
If the light stays on after the landing gear is retracted in place, it proves that the circuit is faulty, please power off immediately to find the problem



Working principle of electric retractable landing gear controller

Remote control landing gear channel switch on

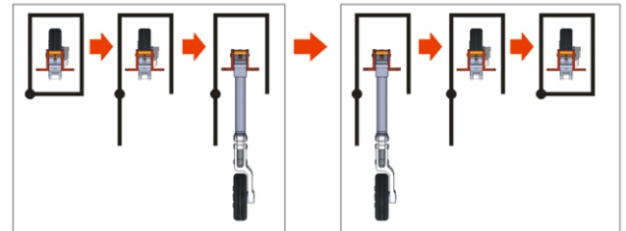
Remote control landing gear channel switch off

Cover opening

Landing gear retracts

Landing gear lays down

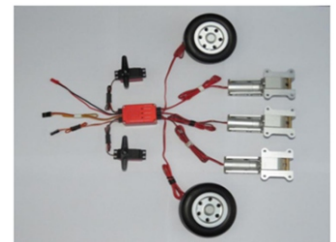
Cover closing



Attention

1. It is forbidden to power on the electric retractable seat directly. Connect the landing gear controller and controlled by remote control to let Landing gear retracted.
2. It is forbidden to plug in or unplug the controller when the landing gear controller is powered on;
3. The LED light on the controller panel must also be turned off accordingly after the electric retracting is put in place and stopped.

If the LED light is still on after the electric retracting in place, power off immediately to find out the problem, (to Check whether the battery has power)



37

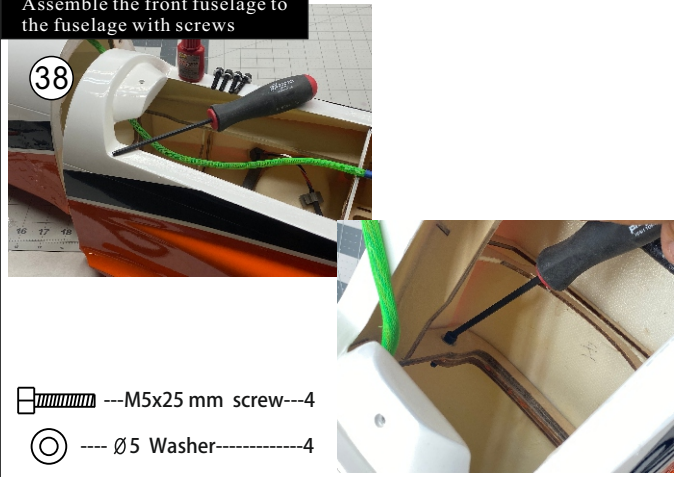



Must be purchased separately!




Assemble the front fuselage to the fuselage with screws

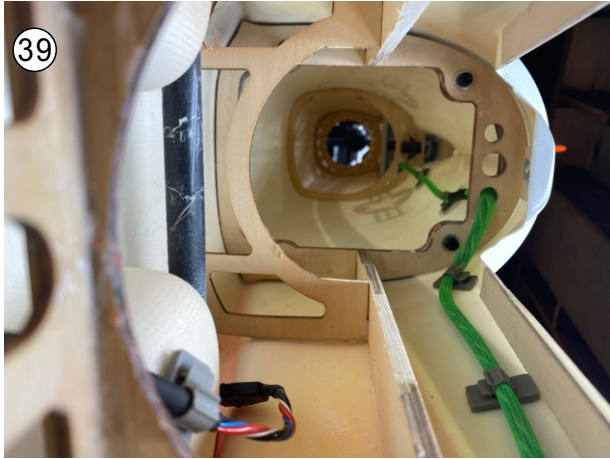
38



 ---M5x25 mm screw---4

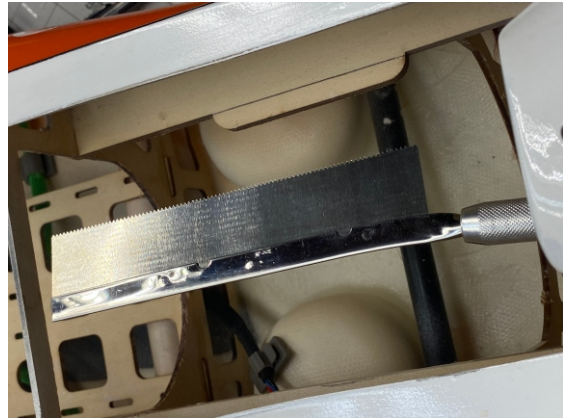
 --- Ø5 Washer-----4

39



40

According to the engine size, the fixing frame is modified



Assemble the exhaust nozzle to the fuselage

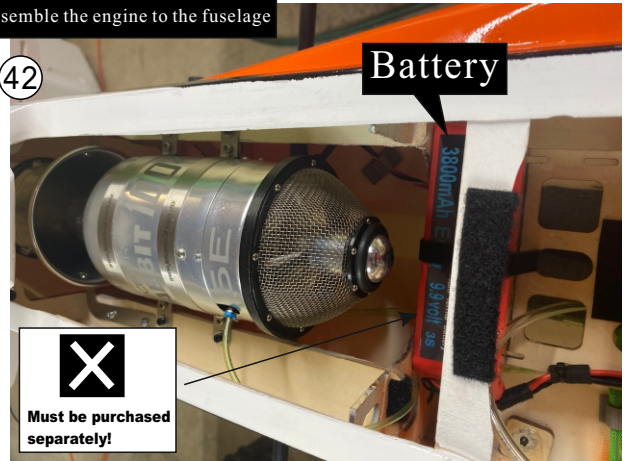
41



Assemble the engine to the fuselage

42

Battery



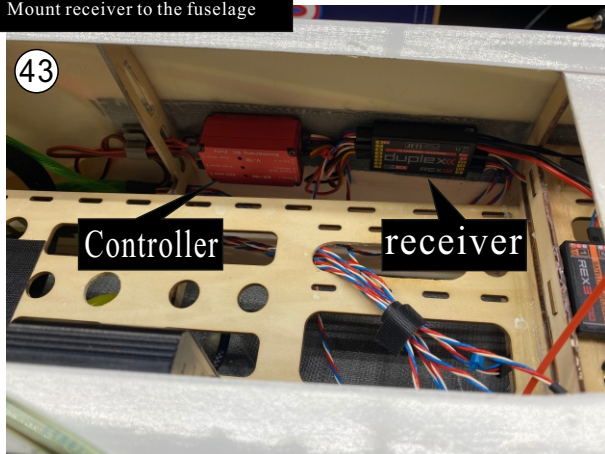
Must be purchased separately!

Mount receiver to the fuselage

43

Controller

receiver



Mount fuel tank to the fuselage

44



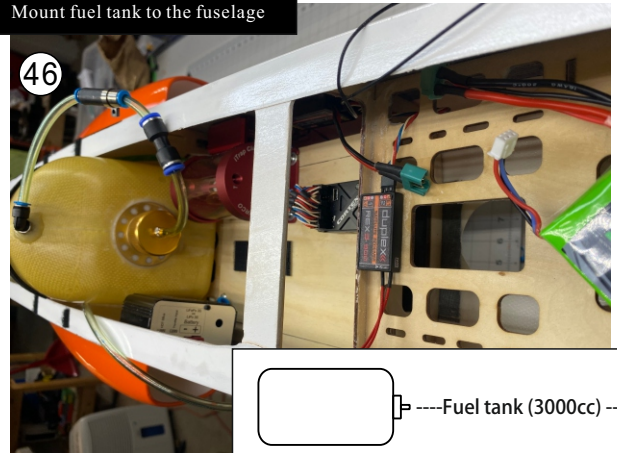
Mount fuel tank to the fuselage

45



Mount fuel tank to the fuselage

46



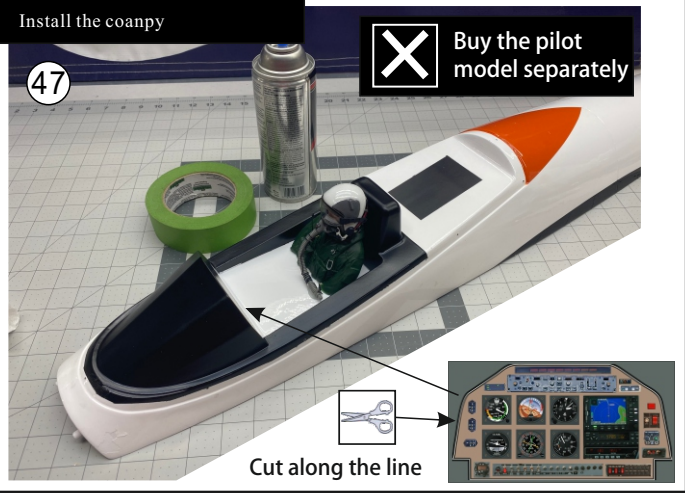
----Fuel tank (3000cc) ----1

Install the canopy

47



Buy the pilot model separately



Cut along the line

Install the canopy

48

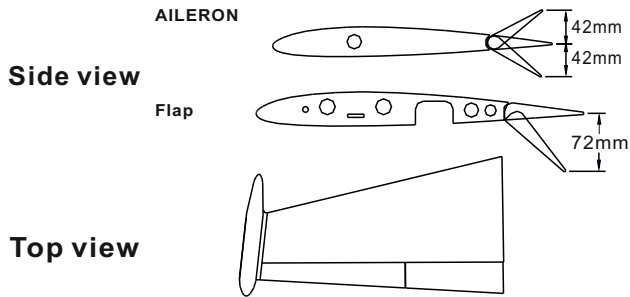


----2.6x8 Tp screw----10



49 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.

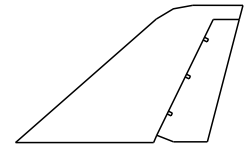


50 Adjustment

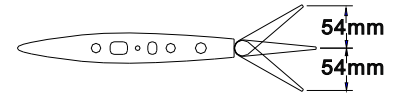
Adjust the travel of each control surface to the values in the diagrams.
These values fit general flight capabilities.
Readjust according to your needs and flight level.

Rudder

Side view



Top view

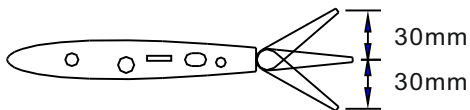


51 Adjustment.

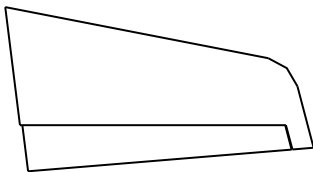
Adjust the travel of each control surface to the values in the diagrams.
These values fit general flight capabilities.
Readjust according to your needs and flight level.

ELEVATOR

Side view

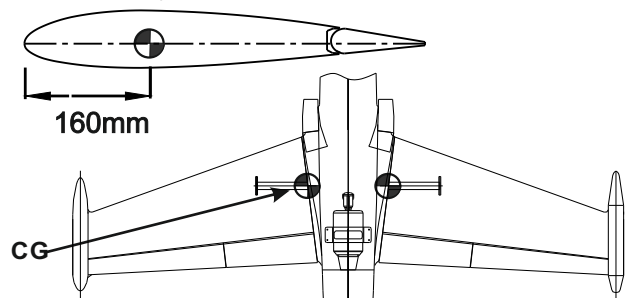


Top view



52 Adjustment.

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



s ð
Warning!

NEVER fly the model without well balancing.