

Before start ,please carefully read the explanations!

Tiger moth



Specification:

Length	:1830 mm(72")
Wing Span	:2235 mm(88")
Wing Area	:146sq.dm 15.7sq.ft
Wing Loading	:50g/sq.dm 16.4oz/sq.ft
Flying Weight	:7.3kg(16.06lbs)
Radio	:6ch & 6servos
Engine:	:26cc-36cc

INSTRUCTION MANUAL



SAFETY PRECAUTIONS

This R/C airplane is not a toy!

(The people under 18 years old is forbidden from flying this model)

First-time builders should seek advice from people having building experience.If misused or abused,it can cause serious bodily injury and damage to property.

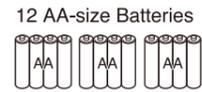
Fly only in open areas and preferably at a dedicated R/C flying site. We suggest having a qualified instructor carefully inspect your airplane before its first flight.Please carefully read and follow all instructions included with this airplane,your radio control system and any other components purchased separately.

REQUIRED FOR OPERATION (Purchase separately!)

CAUTION: For details concerning the equipment listed below (size, maker, etc.), check with your hobby shop.

1 A minimum 6 channel radio for airplanes (with 8 servos), and dry batteries.

CAUTION: Only use a minimum 6 channel radio for airplanes! (No other radio may be used!)
6 channel radio for airplane is highly recommended for this model.

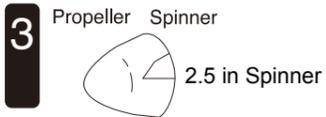
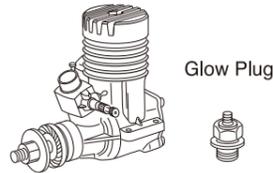


A minimum 6 channel transmitter for airplanes.

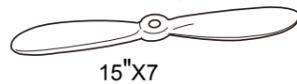


For handling the radio properly, refer to its instruction manual.

2 Engine and Muffler
Model Airplane Engine: 4-cycle .120

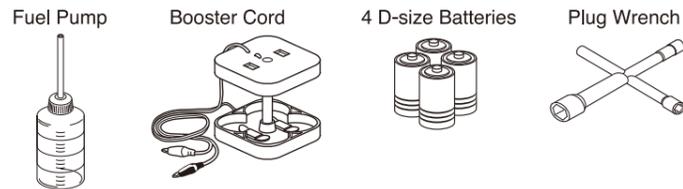


Purchase a propeller that will match your engine.

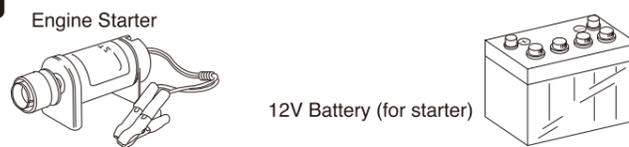


5 Required for engine starting: Glow engine fuel only.

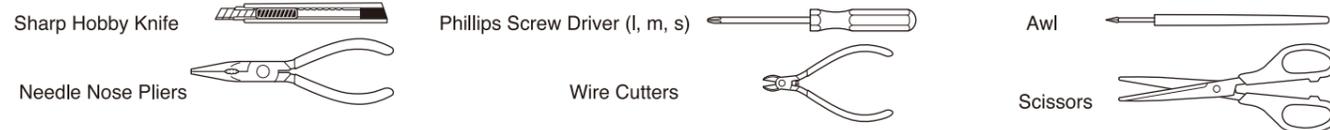
WARNING: Normal gasoline cannot be used with glow engines.



7 Other equipment for enhancing airplane operation & performance



TOOLS REQUIRED (Purchase separately!)

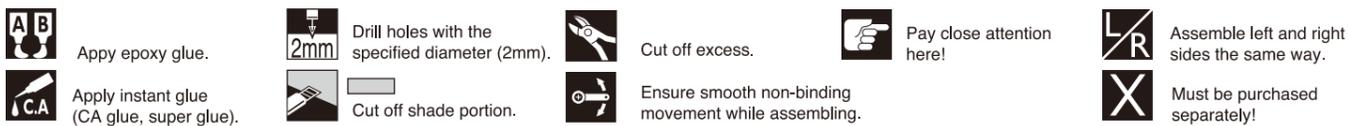


BEFORE YOU BEGIN

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:

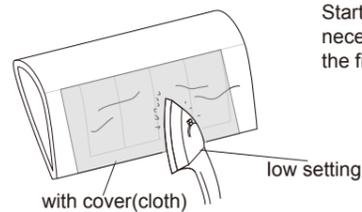


Do not overlook this Symbol!

Warning!

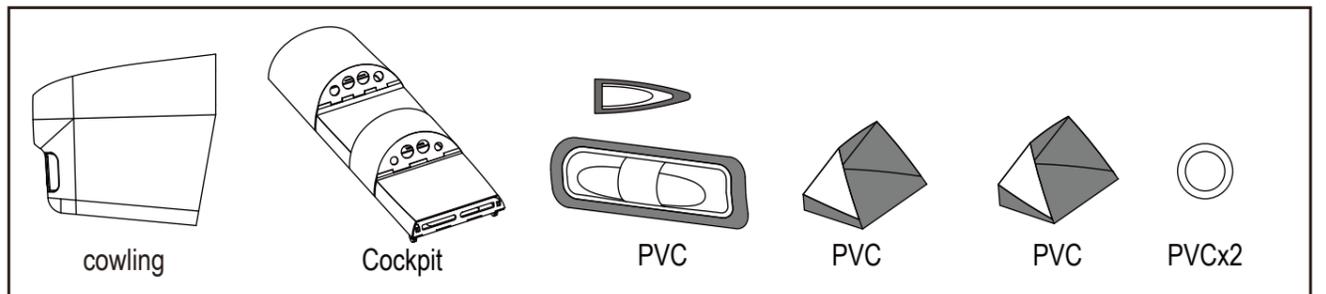
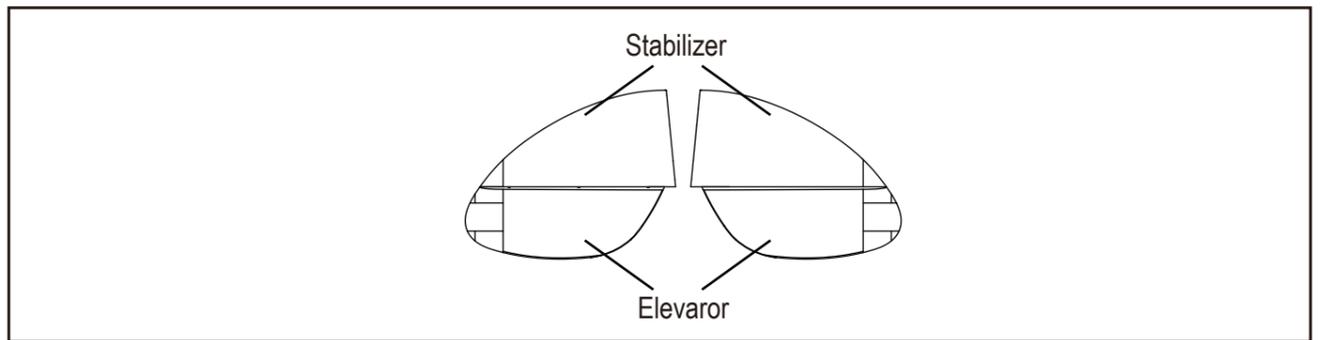
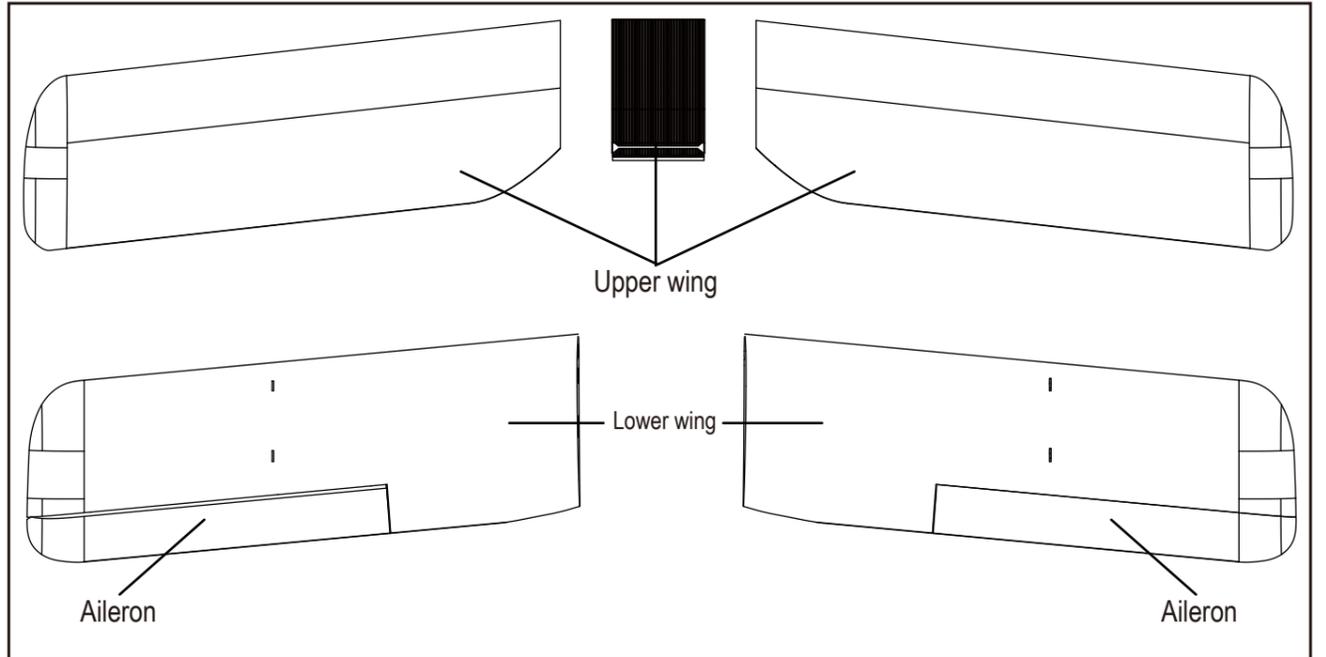
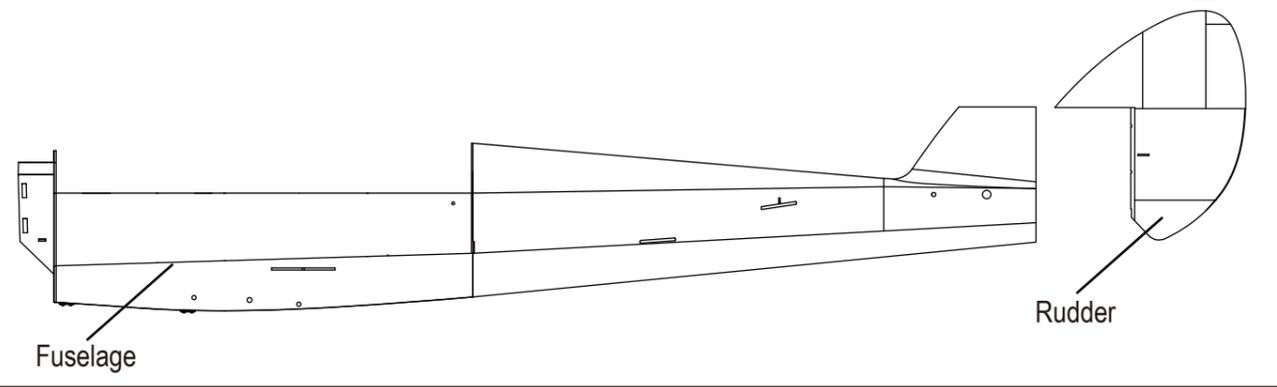
Warning
Remove the covering with proper pressure to cut through only the covering itself. Otherwise, cutting down into the balsa structure may weaken the model part and cause accident.

The pre-covered film on ARF kits may wrinkle due to variations of temperature. Smooth out as explained right.



► Pre-cover the covering with clean cloth!
Start at low setting. Increase the setting if necessary. If it is too high, you may damage the film.

Tiger moth packing list



Tiger moth packing list

Package1

	TP Screw (2.3x12mm)	32
	TP Screw (2.3x8mm)	5
	TP Screw (3x10mm)	4
	Screw (6x30mm)	2
	Screw (4x45mm)	4
	Screw (4x20mm)	4
	Screw (3x16mm)	23
	Screw (3x16mm)	6
	Screw (3x35mm)	4
	Screw (2x10mm)	14

Package2

	Washer(2x6mm)	14
	Washer(3x6mm)	30
	Washer(3x12mm)	1
	Washer(4x8mm)	12
	Washer(6x12mm)	2
	Nut(2mm)	14
	Nut(3mm)	16
	Lock Nut (5mm)	2
	Collar (5mm)	2
	Collar (3mm)	7
	Blind Nut(4mm)	4

Package3

	Rod (2.5x300mm)	2
	Rod (2x300mm)	2
	Rod (2x200mm)	1
	Wing struts	2
	Stabilizer struts	2

Package4

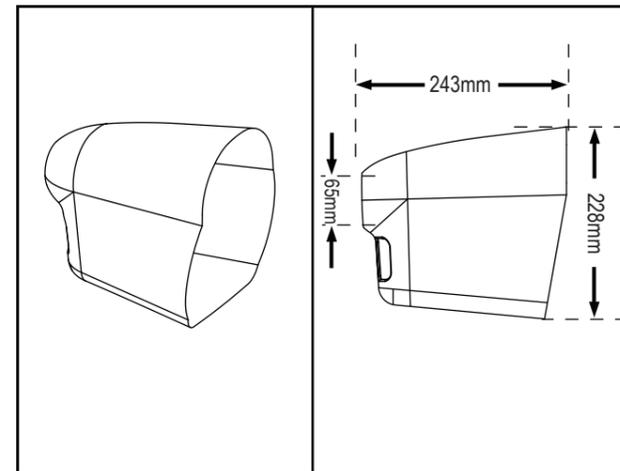
	Tail landing gear (3mm)	1
	Steelwire (0.5x3000mm)	10
	Wheel(115mm)	2
	Wheel(45mm)	1
	Plastic tube (2x400mm)	1
	Fuel tank (550cc)	1
	Cable tie	2

Package5

	Control horn(2mm)	6
	Control horn(3mm)	2
	Wing skids	2
	Clevis(2mm)	14
	Clevis(3mm)	2
	Aluminum tube (3x6mm)	28
	Linkage Stopper	2
	Gear plate	4
	Copper joiner	12
	Aluminum plate	1
	Gear plate	1
	Retainer	2
	Pressure Bearing	1
	Fibre plate	4
	Fibre plate	1
	Ply washer (2mm)	2
	Ply (15x15x15mm)	5
	Spring	1
	Main landing gear	1
	Main wing joiner(16x575mm)	1
	Main wing joiner(16x650mm)	1
	Main wing joiner(12x280mm)	1

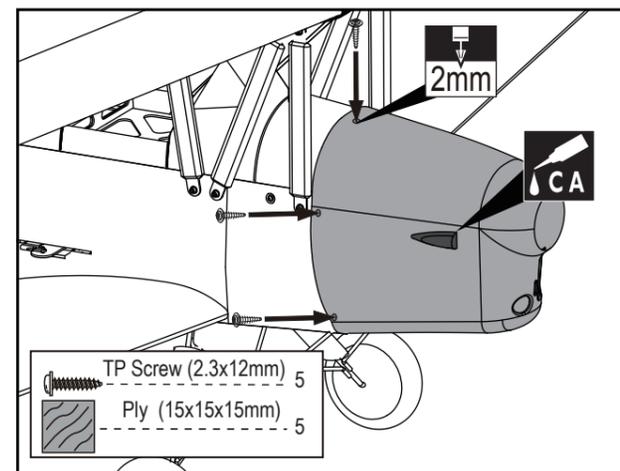
66

The specification of the cowling.



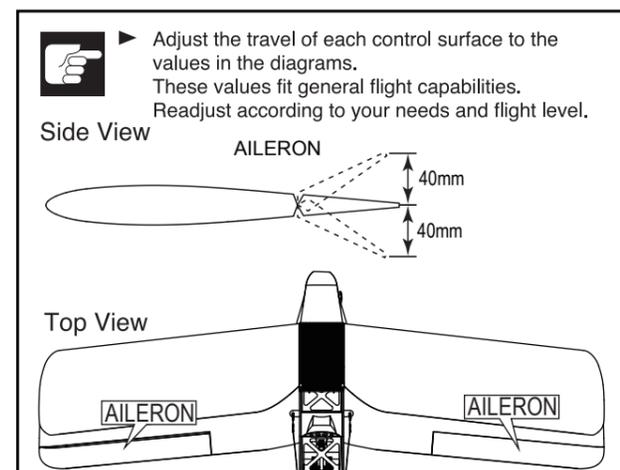
67

Assemble the cowling carefully to the head of fuselage with TP screws and glue the fairing PVC parts to appropriate position the fuselage as illustration.



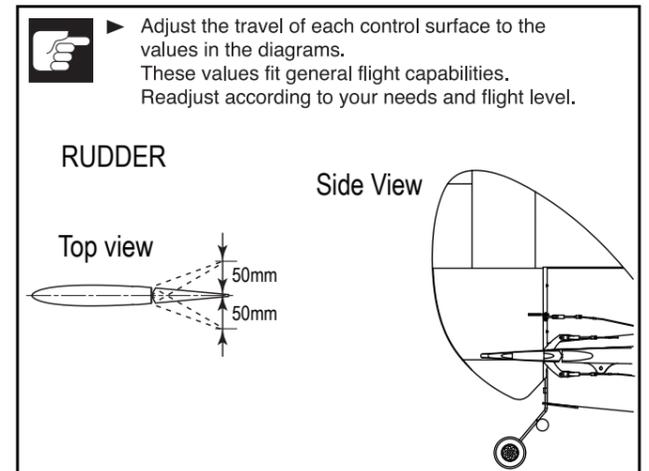
68

Adjustment of the aileron and flap, be sure they can work perfectly.



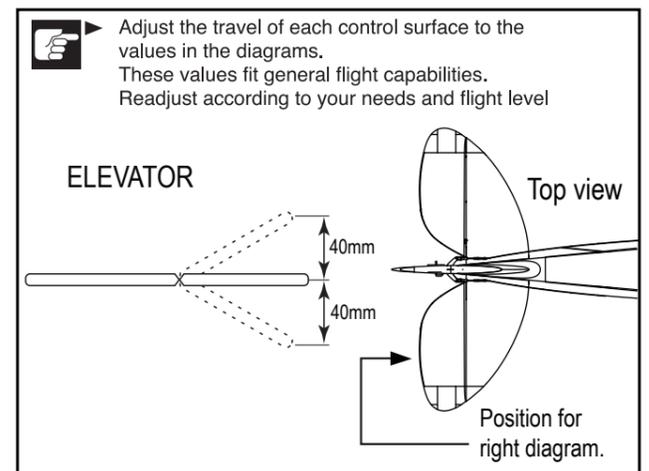
69

Adjustment of the rudder, be sure it can work perfectly.



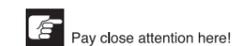
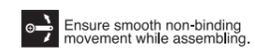
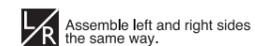
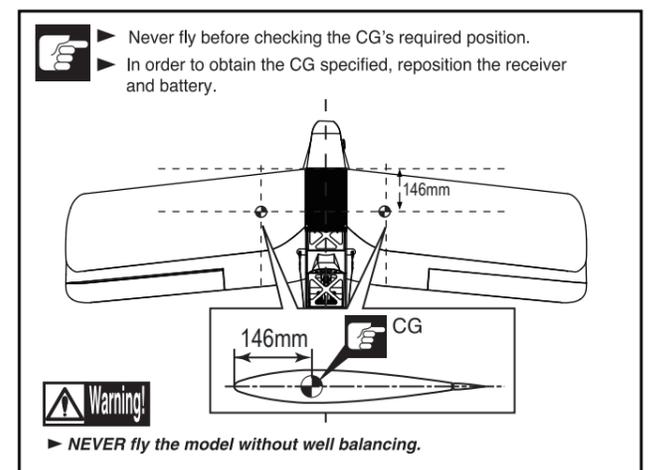
70

Adjustment of the elevator, be sure it can work perfectly.



71

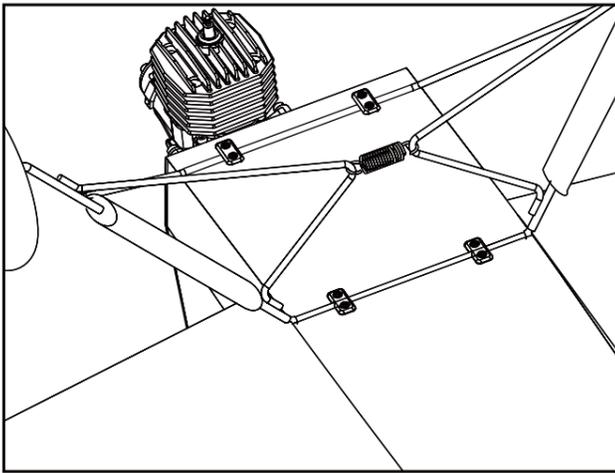
Centre of the Gravity.



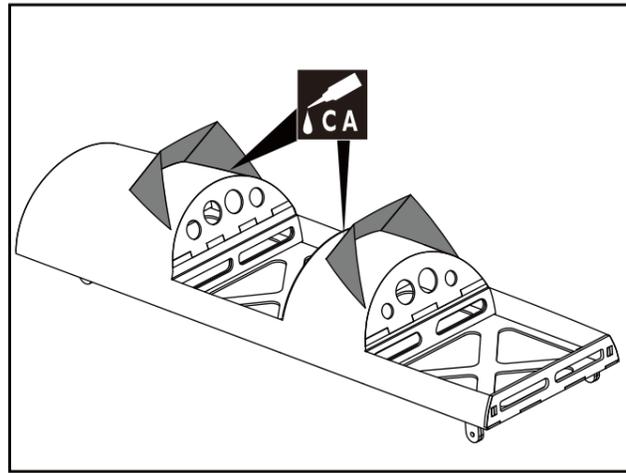
Do not overlook this symbol!



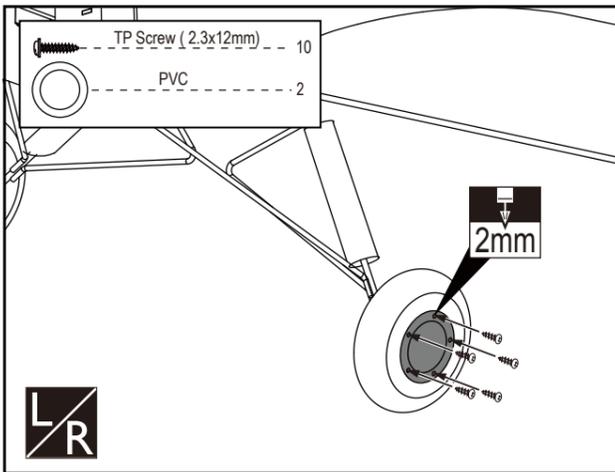
60 fix the spring to the appointed position in the landing gear of the picture.



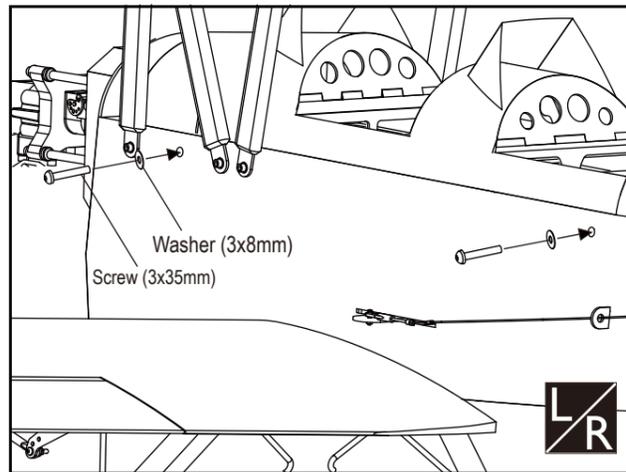
63 Glue the PVC parts to appropriate position on the cockpit.



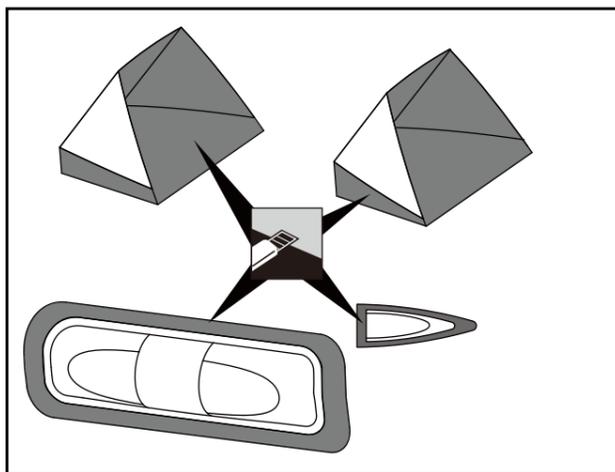
61 Assemble the fairing PVC parts to the wheels with screws.



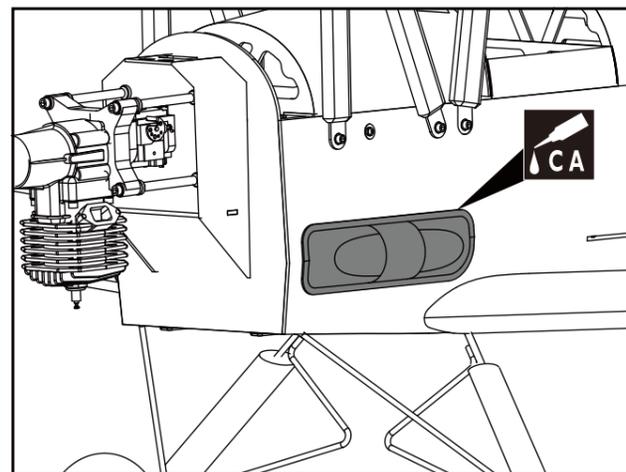
64 Assemble the cockpit to the fuselage via screws as illustration.



62 Trim the PVC parts along the shaded line.



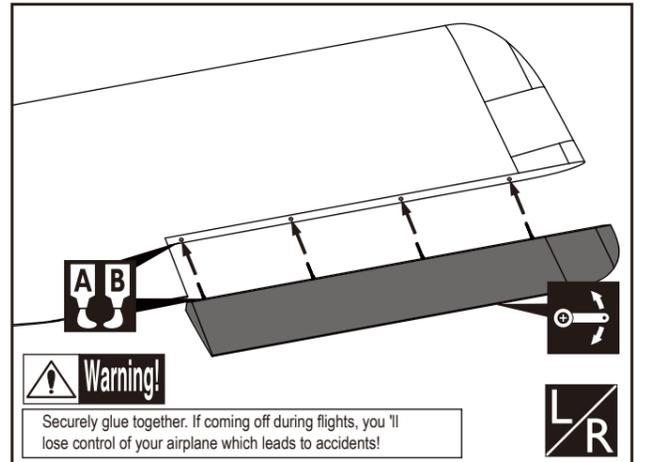
65 Glue the fairing PVC parts to appropriate position the fuselage as illustration.



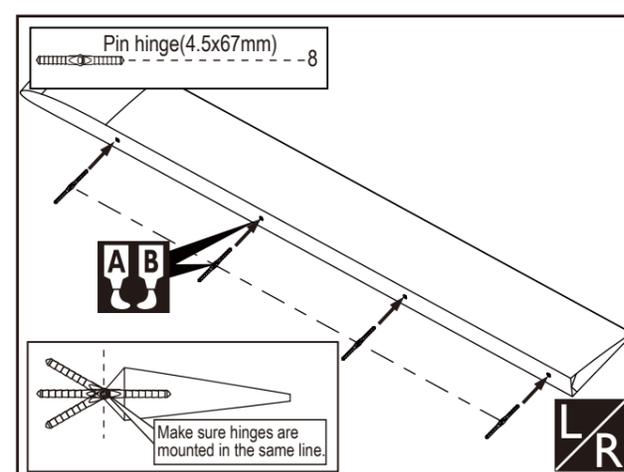
! Accessory list for the coming installation steps.

	Rod (2.5x300mm)	2
	TP Screw (2.3x12mm)	8
	Servo tray(70x58x2mm)	2
	Pin hinge(4.5X67mm)	8
	Collar (2.5mm)	2
	Screw (3x15mm)	2
	Nut (3mm)	2
	Clevis	2
	Control horn	2

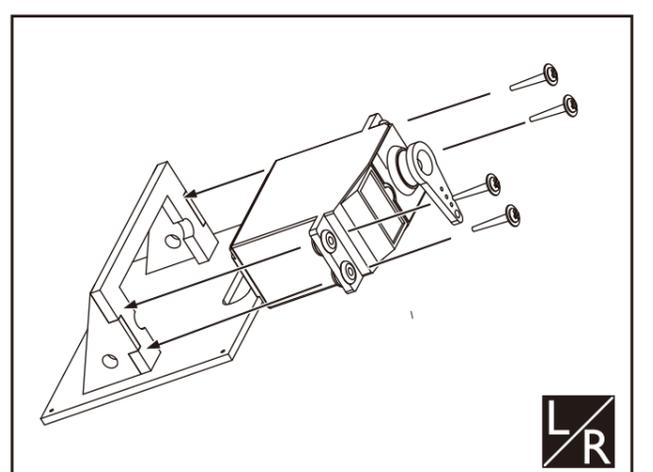
3 Apply instant type AB glue to appropriate position in the trailing edge and assemble the ailerons to them.



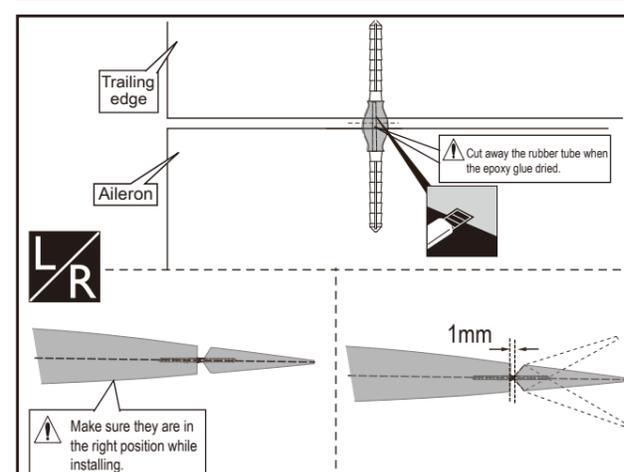
1 Apply instant type AB glue to appropriate position of the aileron and pivot & round hinges. Insert the pivot & round hinges to the ailerons.



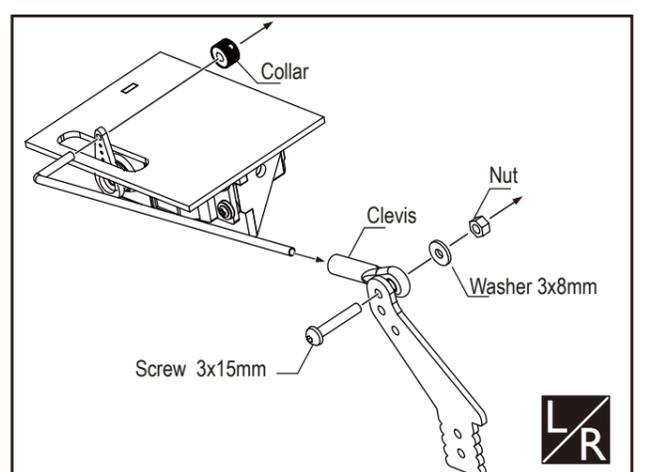
4 Install the aileron servo to the servo mount as illustration below.



2 Keep about 1mm width space between the aileron and the trailing edge.



5 Install the nylon control horn and connect the linkage.



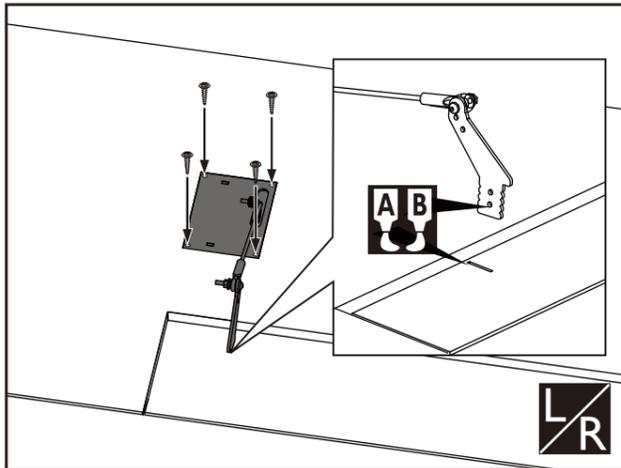
AB Apply epoxy glue. **LR** Assemble left and right sides the same way. **!** Pay close attention here! **!** Do not overlook this symbol! **!** Warning!

CA Apply instant glue (CA glue, super glue). **↻** Ensure smooth non-binding movement while assembling. **✂** Cut off shaded portion.

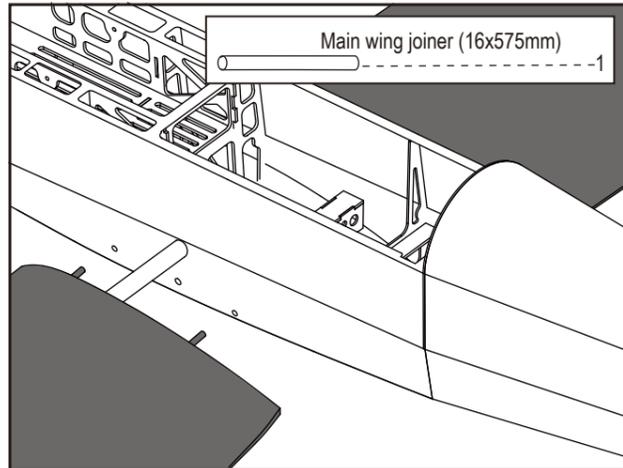
AB Apply epoxy glue. **LR** Assemble left and right sides the same way. **!** Pay close attention here! **!** Do not overlook this symbol! **!** Warning!

CA Apply instant glue (CA glue, super glue). **↻** Ensure smooth non-binding movement while assembling. **✂** Cut off shaded portion.

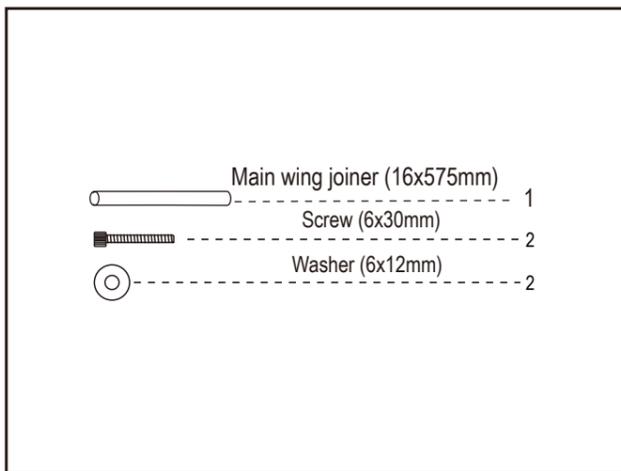
6 Apply instant type AB glue to the control horn and the slots in the aileron, insert the control horn to the slots as illustration.



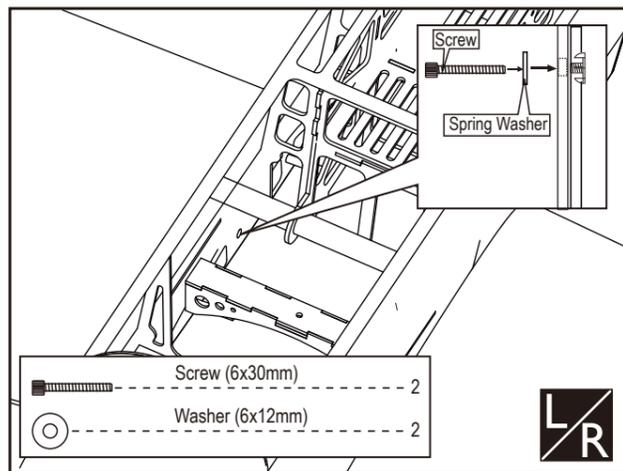
8 Assemble the lower wing to the fuselage.



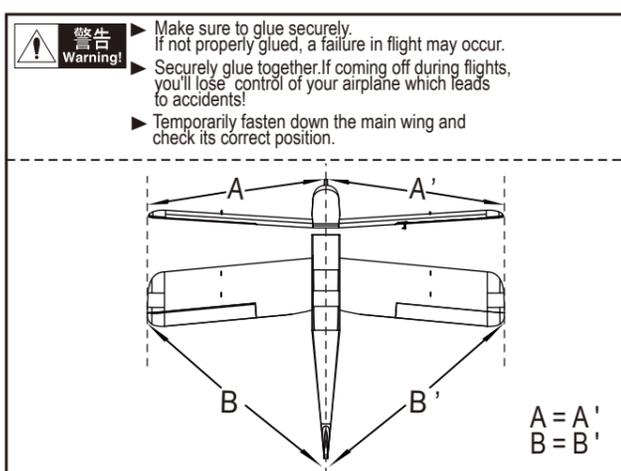
Accessory list for the coming installation steps.



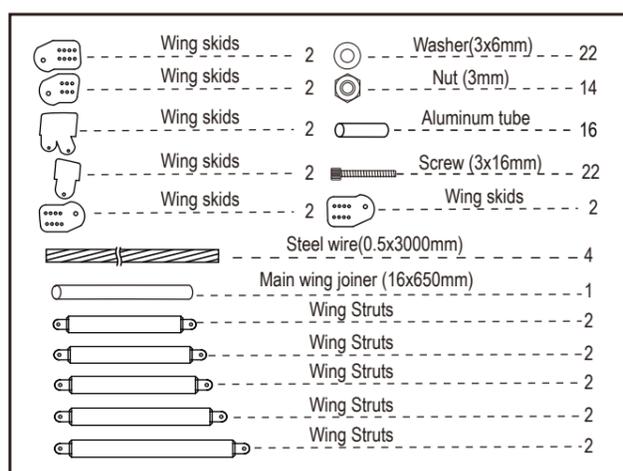
9 Fix the wing to fuselage with screws through the holes applied in the wings and fuselage.



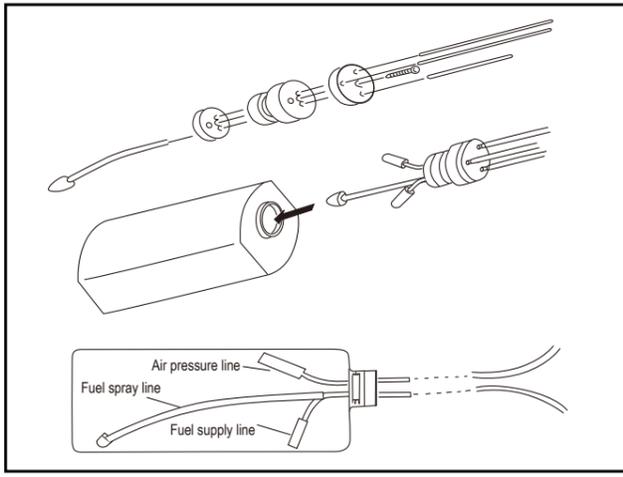
7 The standard sketch map when the kit install completion.



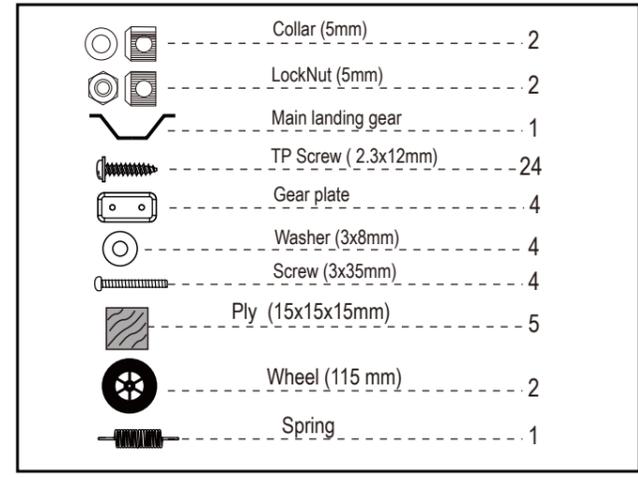
Accessory list for the coming installation steps.



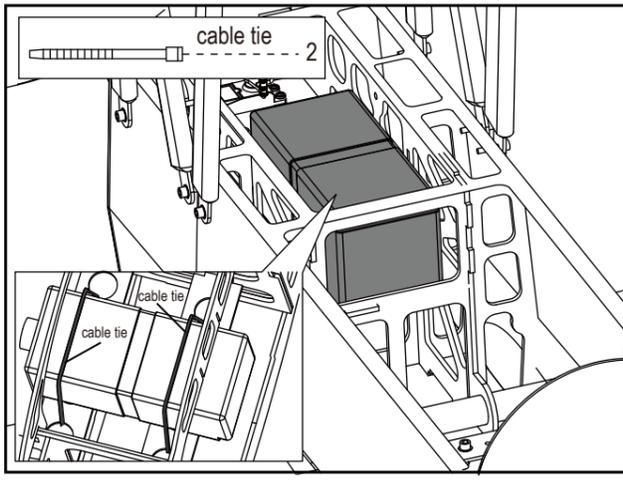
55 Assembly of the fuel tank.



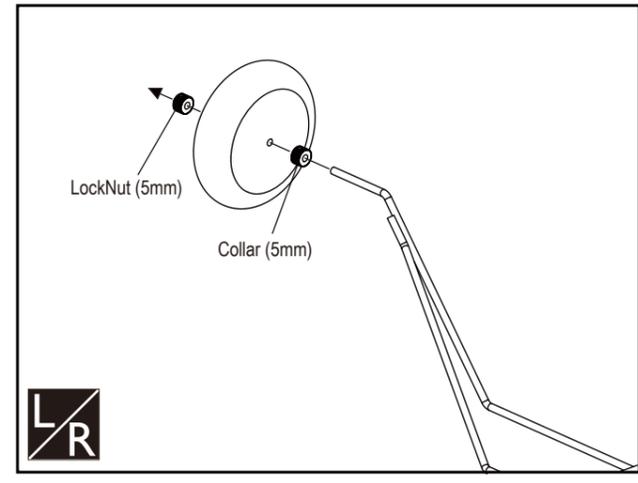
Accessory list for the coming installation steps.



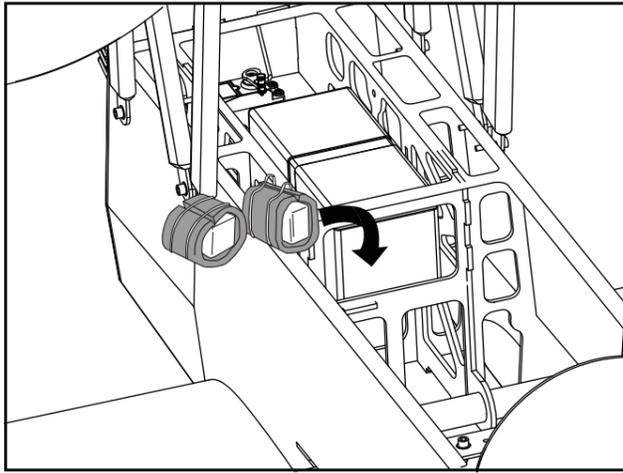
56 Fix the fuel tank to appropriate position in the fuselage with cable tie.



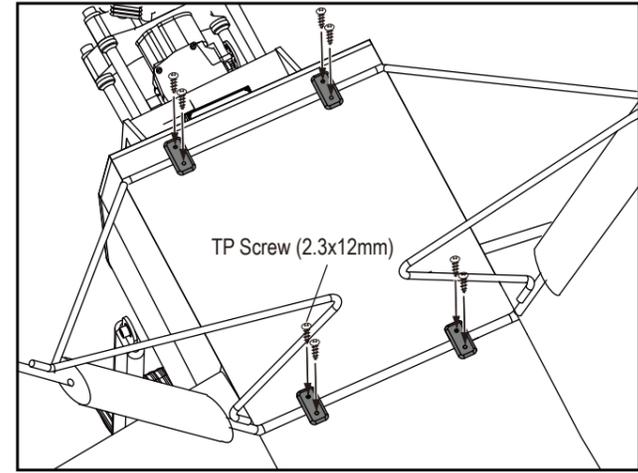
58 Install the wheels to the undercarriage.



57 Mount the receiver and battery to appropriate position in the fuselage.



59 Fix the undercarriage to the fuselage with gear plates and TP screws.



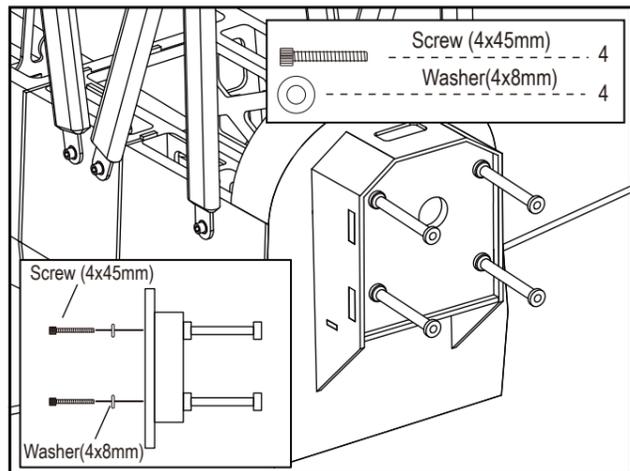
AB Apply epoxy glue. **LR** Assemble left and right sides the same way. **Hand icon** Pay close attention here! **Warning!** Do not overlook this symbol!

CA Apply instant glue (CA glue, super glue). **Arrow icon** Ensure smooth non-binding movement while assembling. **Scissors icon** Cut off shaded portion.

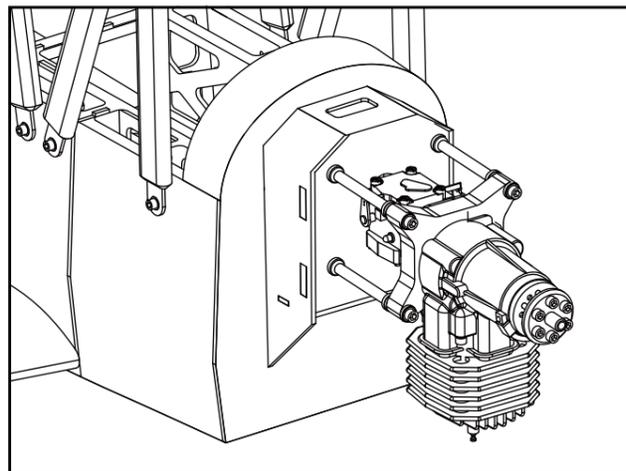
AB Apply epoxy glue. **LR** Assemble left and right sides the same way. **Hand icon** Pay close attention here! **Warning!** Do not overlook this symbol!

CA Apply instant glue (CA glue, super glue). **Arrow icon** Ensure smooth non-binding movement while assembling. **Scissors icon** Cut off shaded portion.

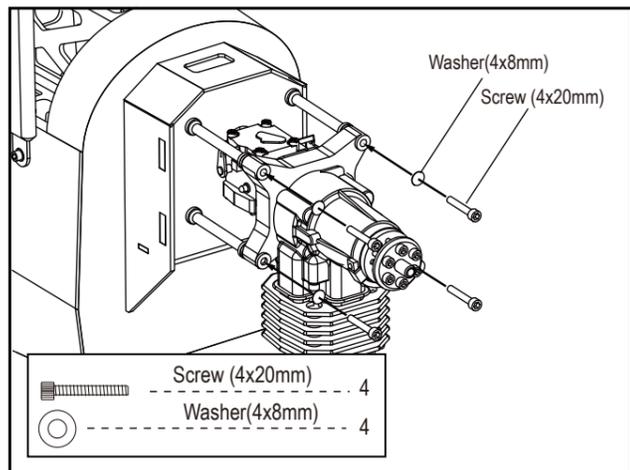
49 Install the engine mount tubes to the fuselage, lock them from inside of the fuselage.



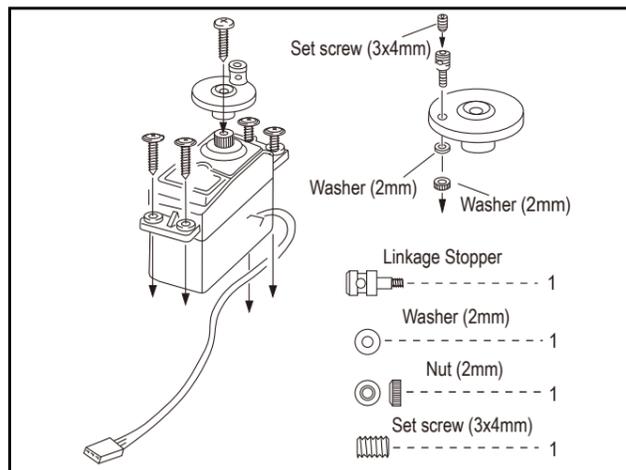
52 The sketch map when the engine install completion.



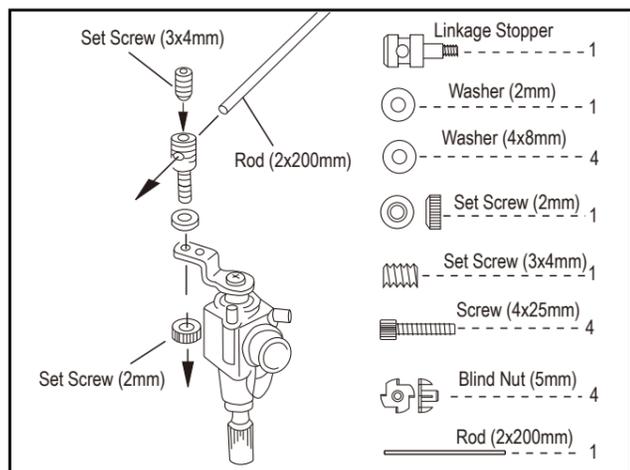
50 Assemble the engine to the fuselage via the engine mount tubes and screws.



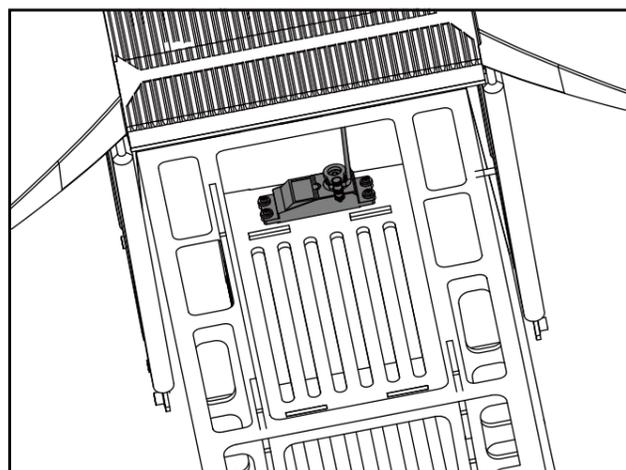
53 Install the servo of the throttle.



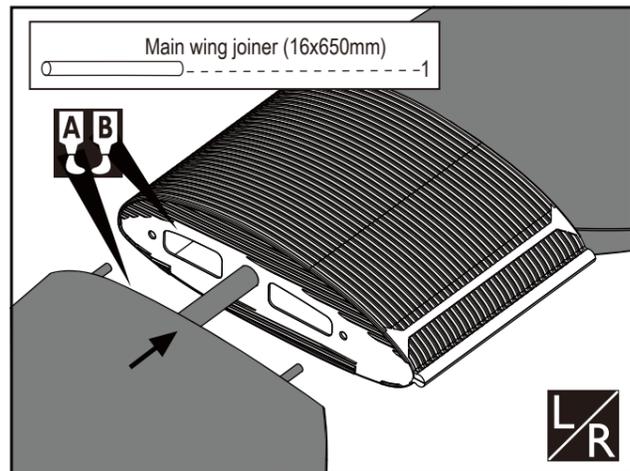
51 Assemble the throttle linkage.



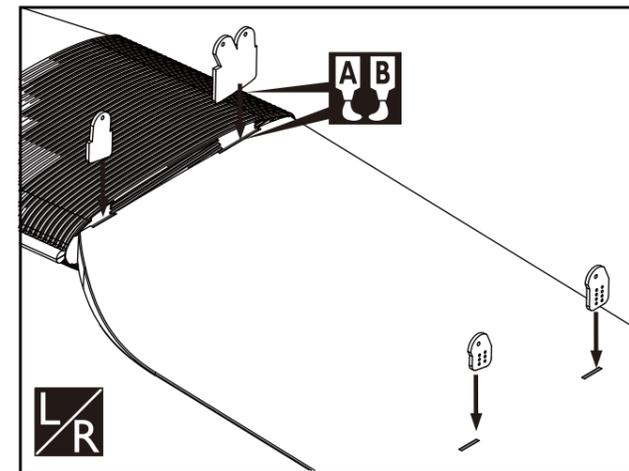
54 Assemble the servo in the fuselage



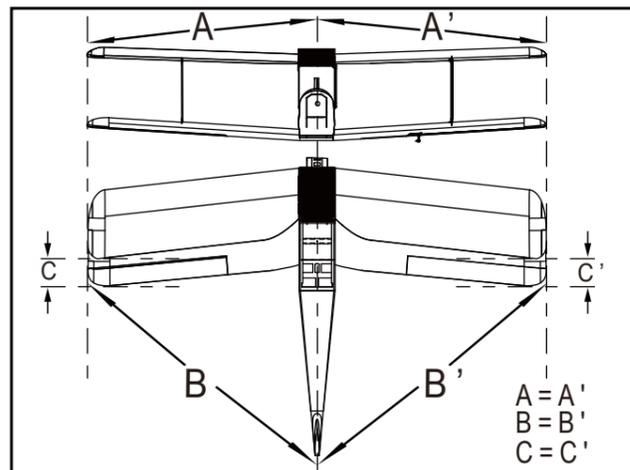
10 Assemble the upper wings to the upper centre wing.



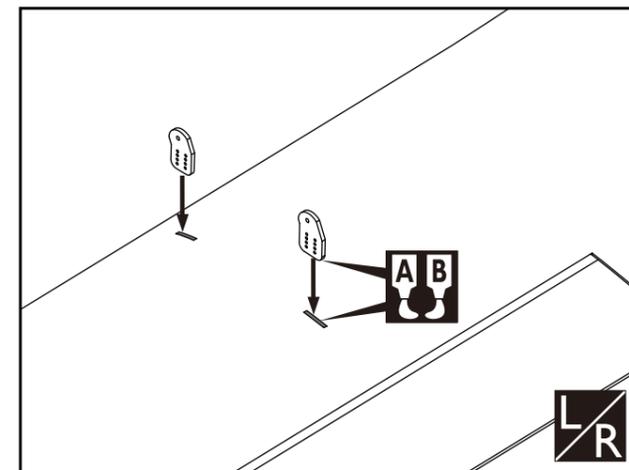
13 Adjust the wing strut between the upper wing and lower wing, epoxy the wing skids to slots in the upper wings.



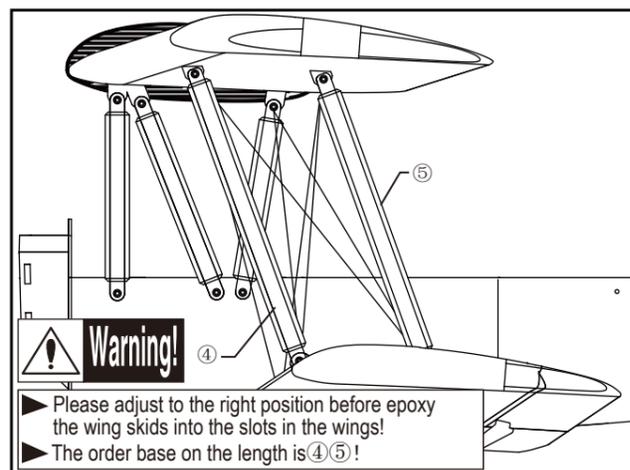
11 The sketch map when the upper wing assemble completion.



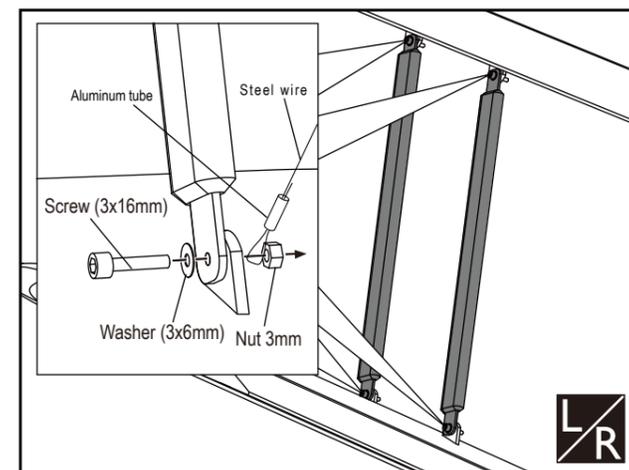
14 Epoxy the wing skids to slots in the lower wing.



12 Assemble the wing strut as illustration.



15 Fix the wing struts to the appropriate position between the upper wings and lower wings.



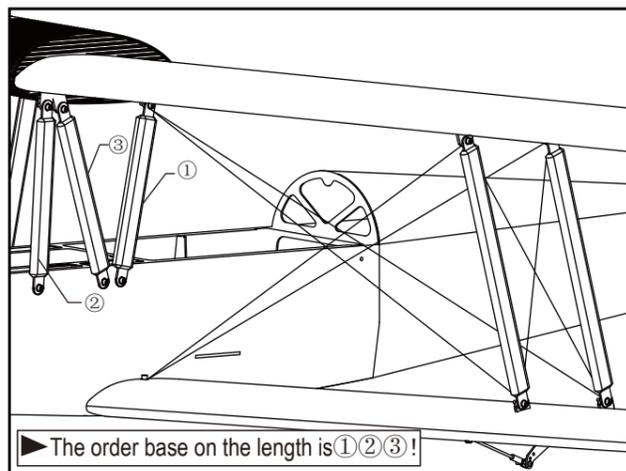
A B Apply epoxy glue. **L R** Assemble left and right sides the same way. **Hand icon** Pay close attention here! **Warning!** Do not overlook this symbol!

CA Apply instant glue (CA glue, super glue). **Arrow icon** Ensure smooth non-binding movement while assembling. **Scissors icon** Cut off shaded portion.

A B Apply epoxy glue. **L R** Assemble left and right sides the same way. **Hand icon** Pay close attention here! **Warning!** Do not overlook this symbol!

CA Apply instant glue (CA glue, super glue). **Arrow icon** Ensure smooth non-binding movement while assembling. **Scissors icon** Cut off shaded portion.

16 The sketch map of the steel wire using for the wings.

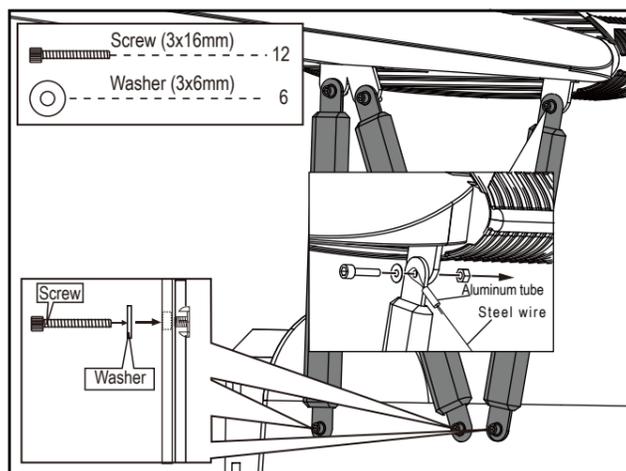


▶ The order base on the length is ①②③!

! Accessory list for the coming installation steps.

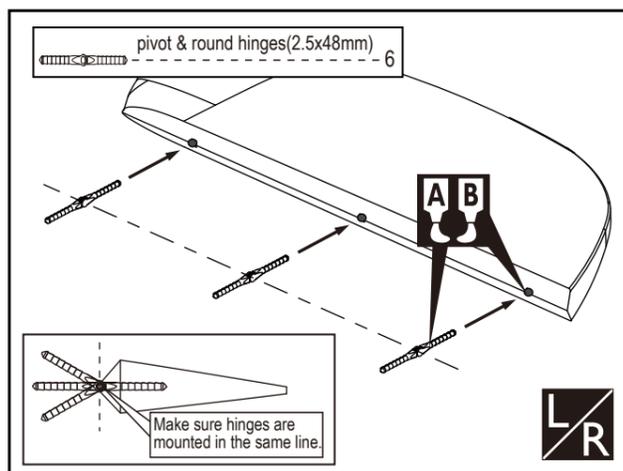
	Main wing joiner (12x280mm)	1
	Pivot&round hinge(2.5x48mm)	6
	Steel wire (0.5x3000mm)	4
	TP Screw (3x10mm)	4
	Aluminum tube	8
	Nut (2mm)	8
	Washer(2x6mm)	8
	Clevis	8
	Screw (3x16mm)	4
	Copper joiner	8
	Screw (2x10mm)	8
	Washer(3x6mm)	4
	Control horn	4

17 Fix the wing struts of the centre wing to the centre wing & fuselage as illustration.



- Screw (3x16mm) - 12
- Washer (3x6mm) - 6

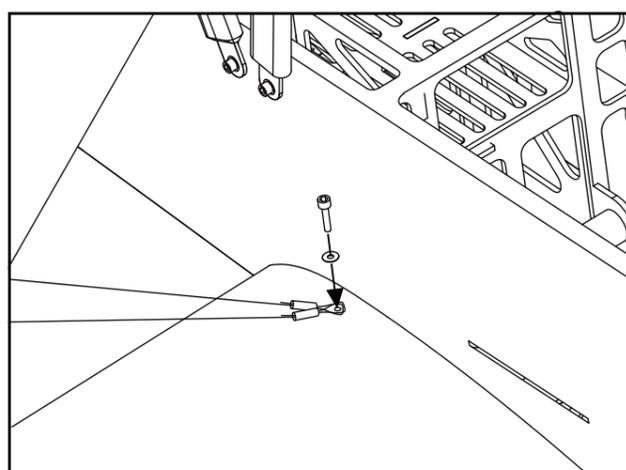
19 Apply instant type AB glue to appropriate position of the elevator and pivot & round hinges. Insert the pivot & round hinges to the elevator.



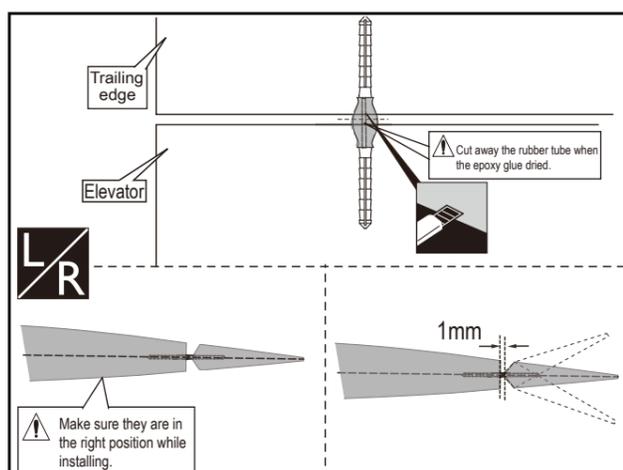
- pivot & round hinges(2.5x48mm) - 6

Make sure hinges are mounted in the same line.

18 Fix the steel wire to the wings.



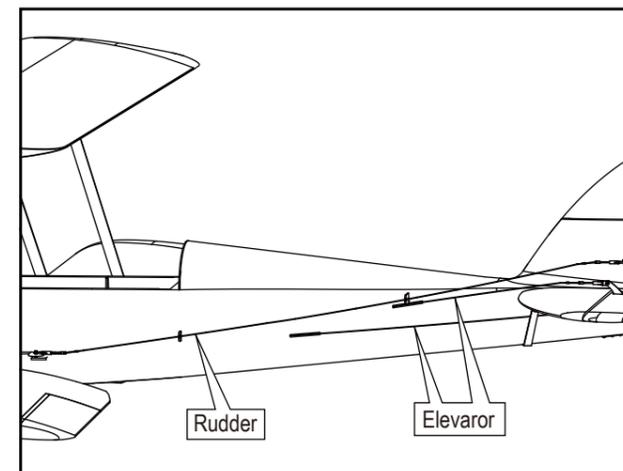
20 Keep about 1mm width space between the elevators and the stabilizers.



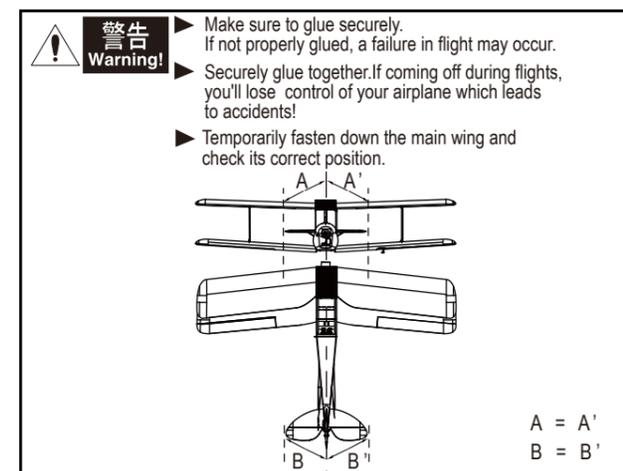
Trailing edge
Elevator
Cut away the rubber tube when the epoxy glue dried.

Make sure they are in the right position while installing.

44 The sketch map of the steel wire works for the rudder and elevator.



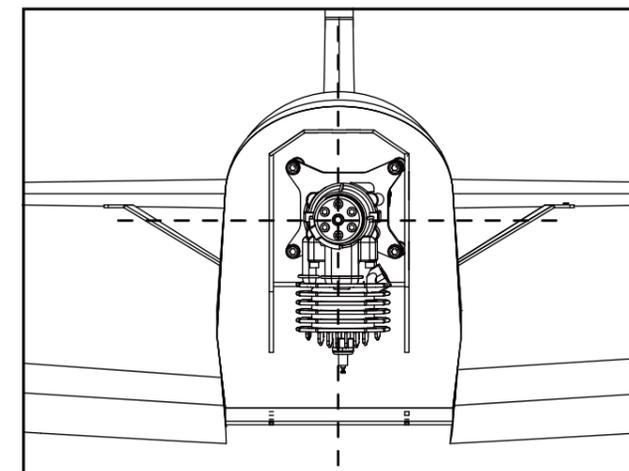
45 The standard sketch map when the kit install completion.



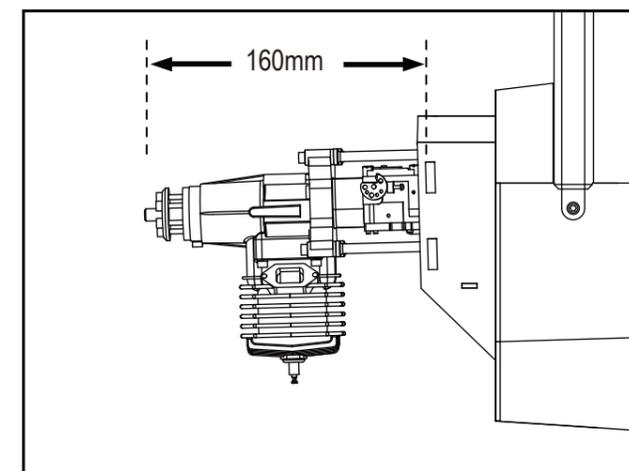
警告 Warning!
Make sure to glue securely. If not properly glued, a failure in flight may occur.
Securely glue together. If coming off during flights, you'll lose control of your airplane which leads to accidents!
Temporarily fasten down the main wing and check its correct position.

A = A'
B = B'

46 The front view once the engine install completion.



47 The side view once the engine install completion.



160mm

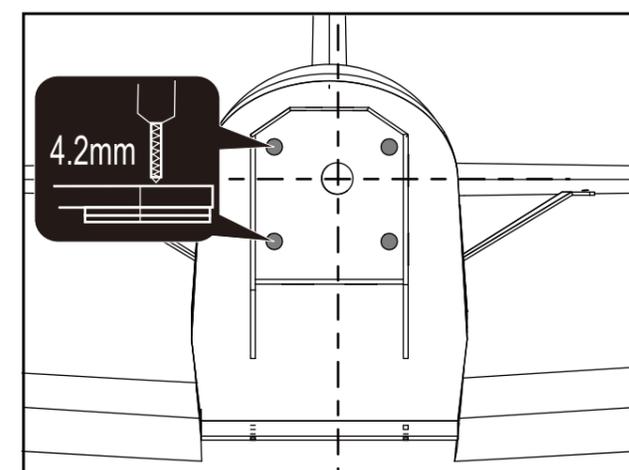
AB Apply epoxy glue. **LR** Assemble left and right sides the same way. **!** Pay close attention here! Do not overlook this symbol!

CA Apply instant glue (CA glue, super glue). **→** Ensure smooth non-binding movement while assembling. **⊞** Cut off shaded portion. **!** Warning!

! Accessory list for the coming installation steps.

	Screw (4x45mm)	4
	Screw (4x20mm)	4
	Washer(4x8mm)	12
	Linkage Stopper	2
	Plastic tube (2x400mm)	1
	Fuel tank (550cc)	1
	Cable tie	2
	Blind Nut (5mm)	4
	Rod (2x200mm)	1

48 Drill four holes at the diameters as shown for engine mount.

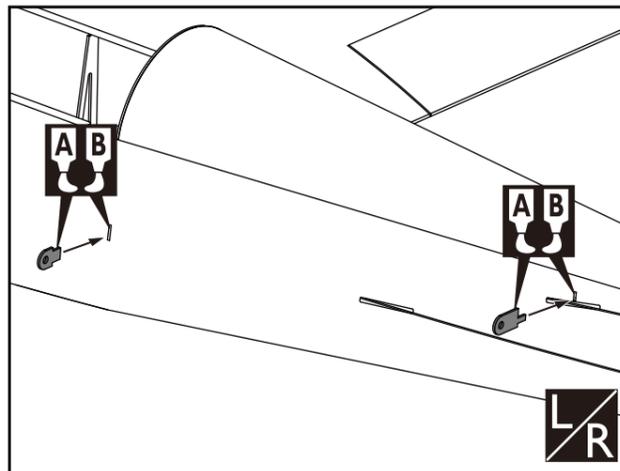


4.2mm

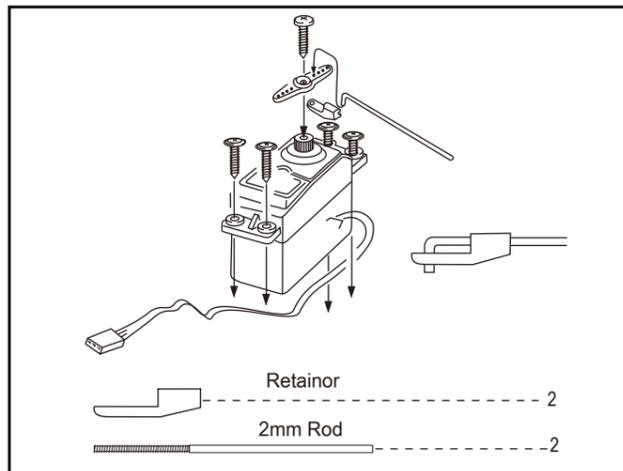
AB Apply epoxy glue. **LR** Assemble left and right sides the same way. **!** Pay close attention here! Do not overlook this symbol!

CA Apply instant glue (CA glue, super glue). **→** Ensure smooth non-binding movement while assembling. **⊞** Cut off shaded portion. **!** Warning!

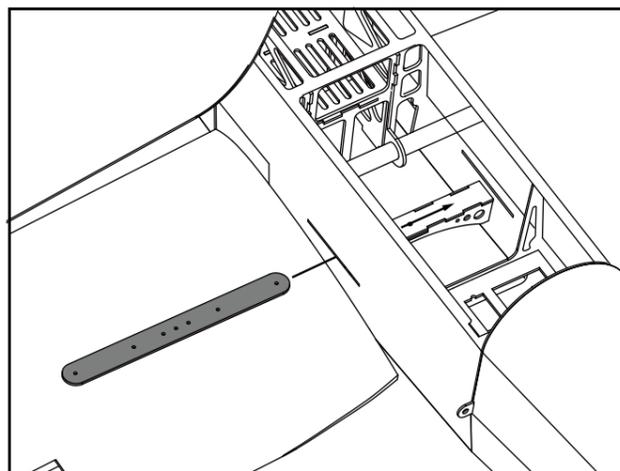
38 Epoxy the fibre plate to the proper position of the slots in the fuselage.



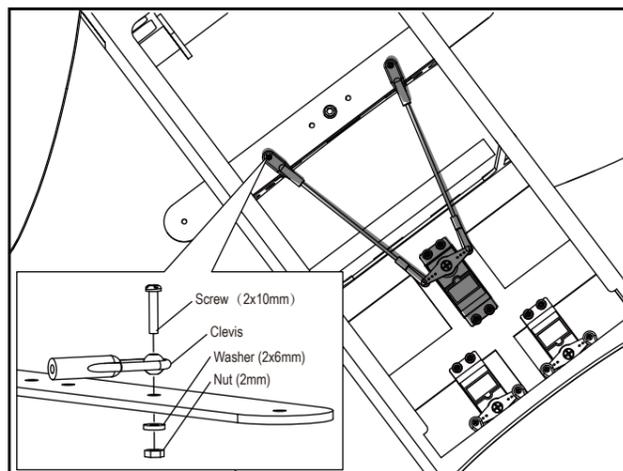
41 Install the servo of the rudder.



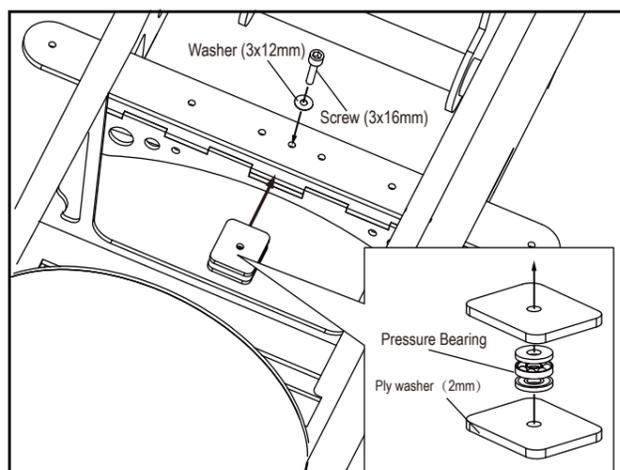
39 Insert the fibre plate through the fuselage via the slots in the fuselage.



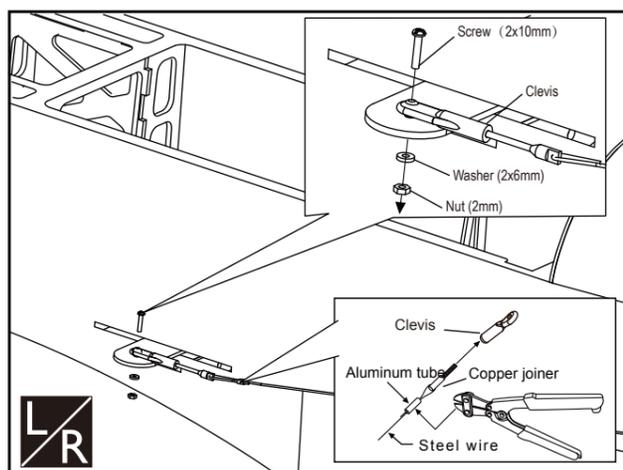
42 Connect the fibre plate to the servo via two linkages as illustration.



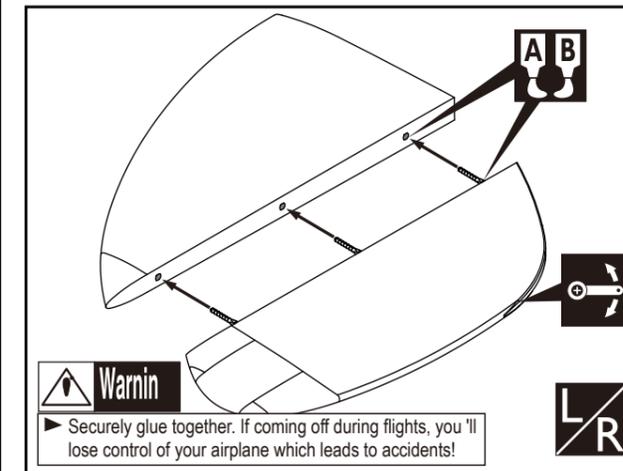
40 Fix the center of the fibre plate via screw, but each side of the fibre plate can sway.



43 Connect the outside of the fibre plate to the rudder as illustration.

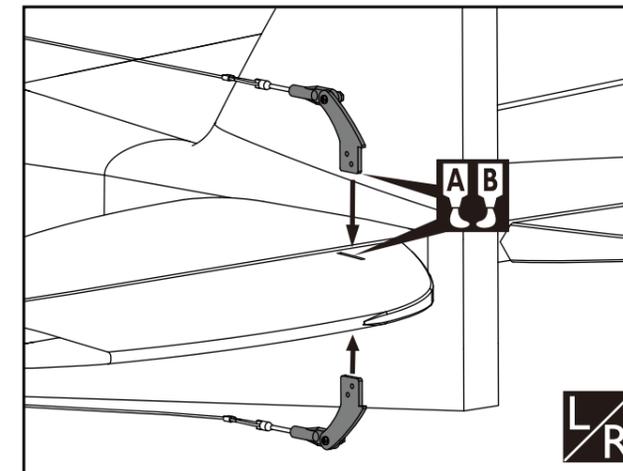


21 Assemble the elevators to the stabilizers via pivot & round hinges.

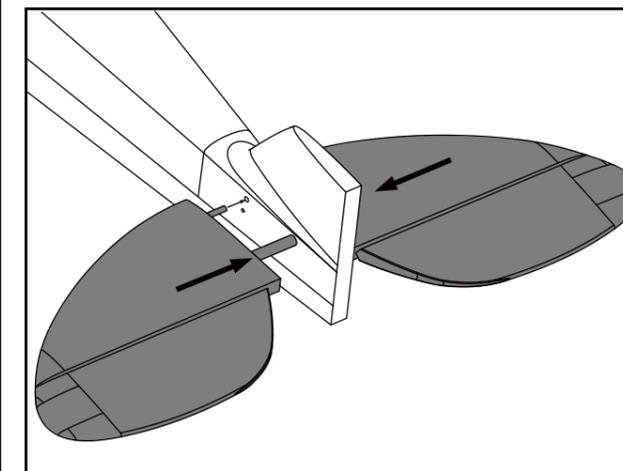


Warning!
Securely glue together. If coming off during flights, you'll lose control of your airplane which leads to accidents!

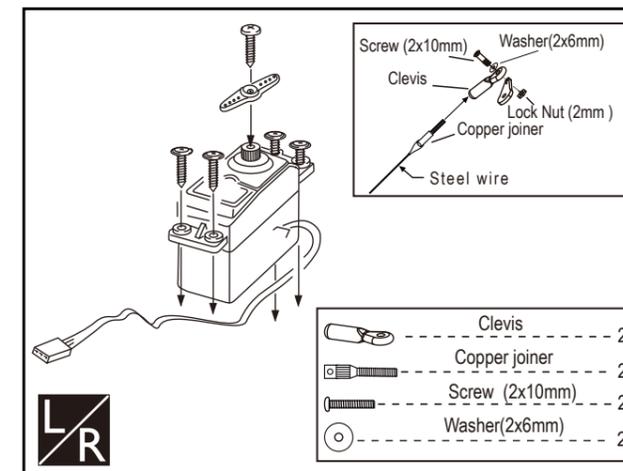
24 Epoxy the control horn to slots offered in the elevator.



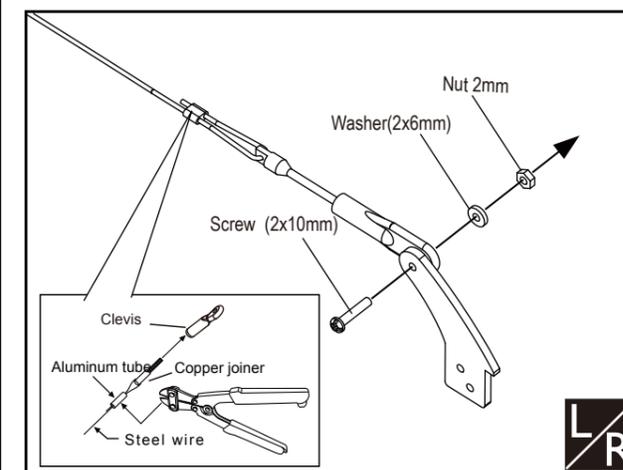
22 Assemble the stabilizers to the tail fuselage through the tail tube.



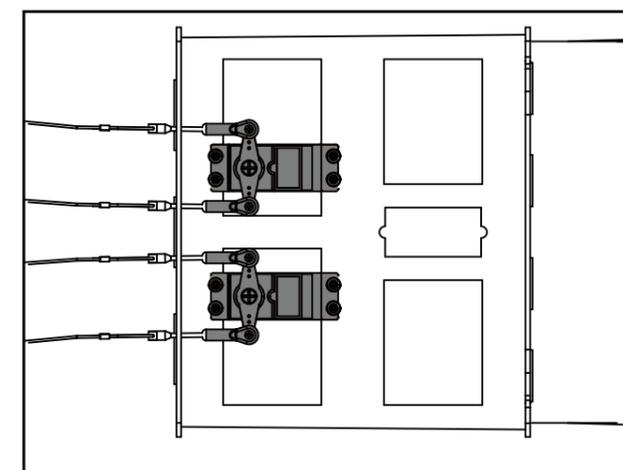
25 Install the servos of elevator.



23 Lock the linkage to the control horn with screw and nut as below.



26 Assemble the servos to the fuselage.



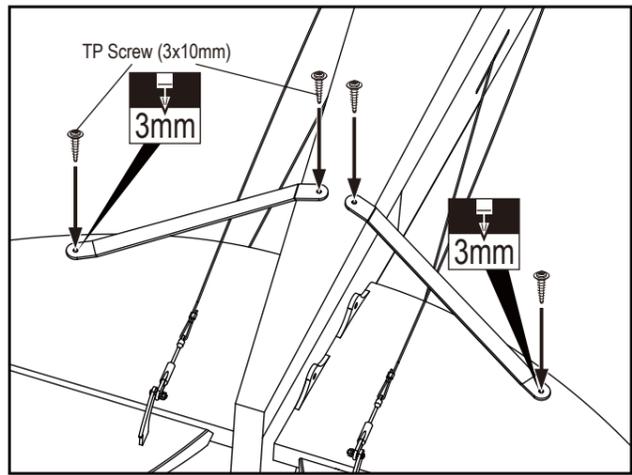
A B Apply epoxy glue. **L/R** Assemble left and right sides the same way. **Hand icon** Pay close attention here! **Warning!** Do not overlook this symbol!

CA Apply instant glue (CA glue, super glue). **Arrow icon** Ensure smooth non-binding movement while assembling. **Scissors icon** Cut off shaded portion.

A B Apply epoxy glue. **L/R** Assemble left and right sides the same way. **Hand icon** Pay close attention here! **Warning!** Do not overlook this symbol!

CA Apply instant glue (CA glue, super glue). **Arrow icon** Ensure smooth non-binding movement while assembling. **Scissors icon** Cut off shaded portion.

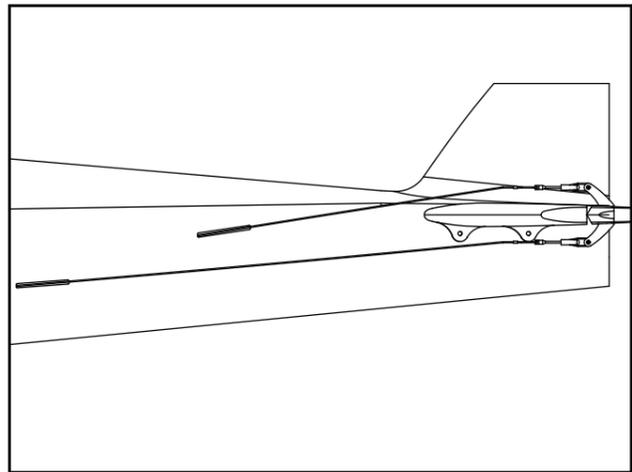
27 Fix the side of the stab strut which have a drilled hole to the pointed position on the fuselage, according to the hole in the stab, mark in the other side of the stab and drill hole in it and fix the stab strut between the stab and fuselage well.



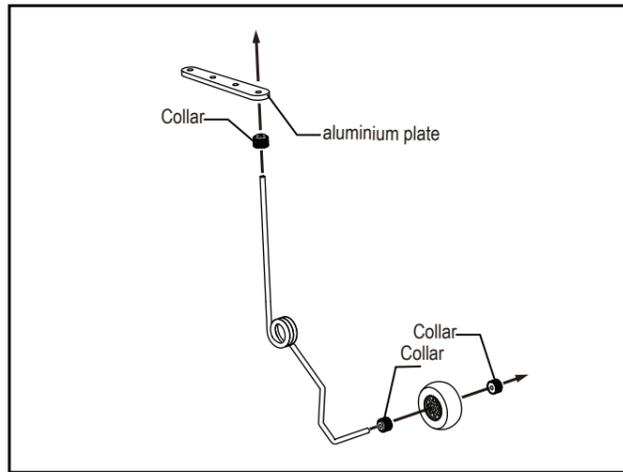
Accessory list for the coming installation steps.

Retainor	2	Fibre plate	4
Gear plate	1	2mm Rod	2
Pressure Bearing	1	Collar (3mm)	3
Screw (2x10mm)	6	Aluminium plate	1
TP Screw (2.3x8mm)	5	Copper joiner	4
Clevis	6	Aluminum tube	4
Ply washer (2mm)	2	Control horn	2
Tail landing gear	1	Tail wheel (45mm)	1
Nut (2mm)	6	Washer(2x6mm)	6
		Steel wire (0.5x3000mm)	2
		Pivot&round hinge(2.5X48mm)	2
		Fibre plate	1

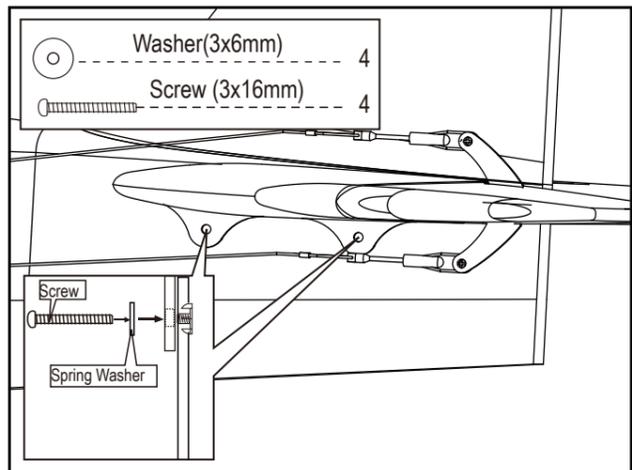
28 Connect the servos and the elevator via steel wires.



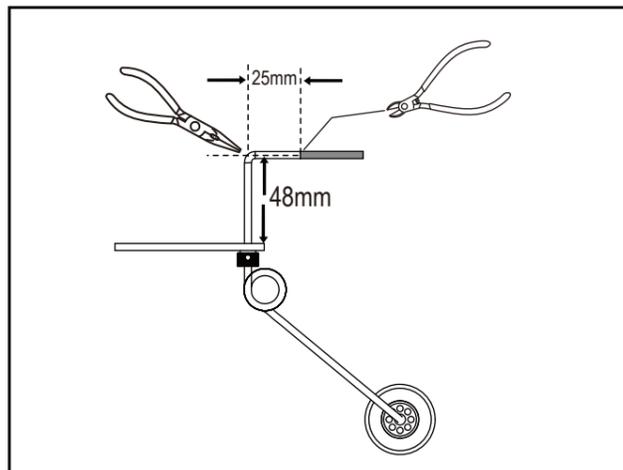
30 Install the tail landing gear.



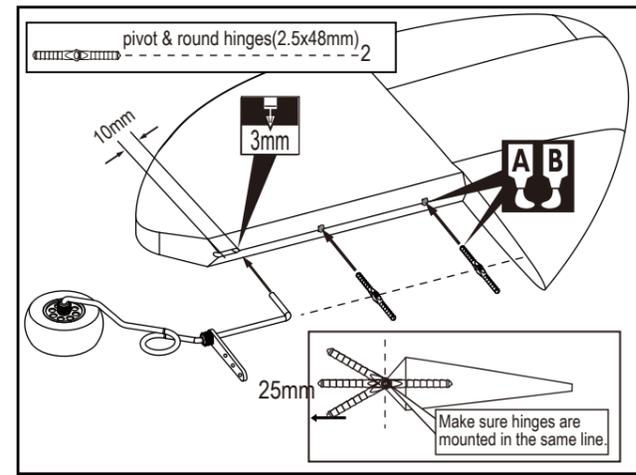
29 Fix the stabilizers to the tail fuselage via screws.



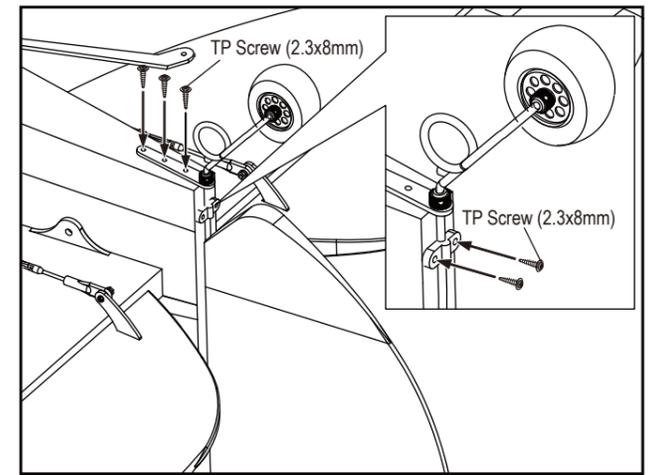
31 According to the illustration below bend the tail landing gear wire and cut off the surplus part.



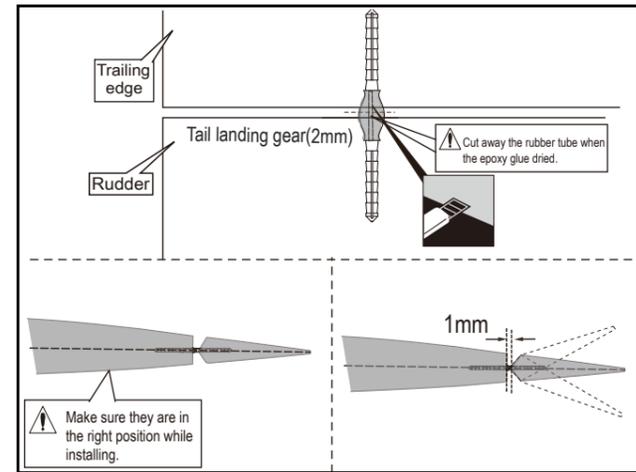
32 Epoxy the pivot & round hinges to the rudder, drill holes to appropriate position in the rudder and assemble the tail landing gear to it as shown.



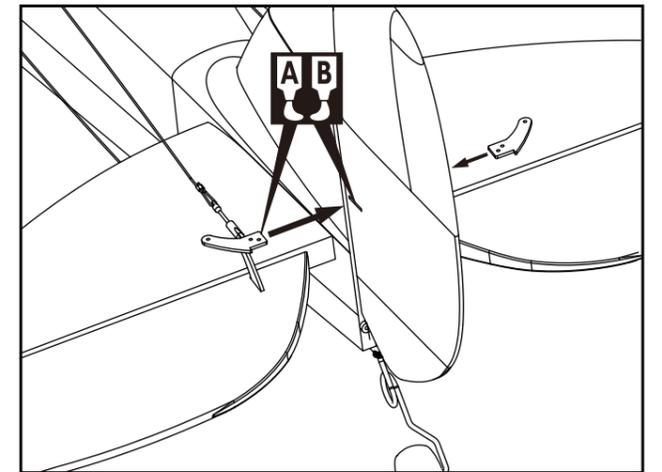
35 Fix the tail wheel to the fuselage via screws via illustration.



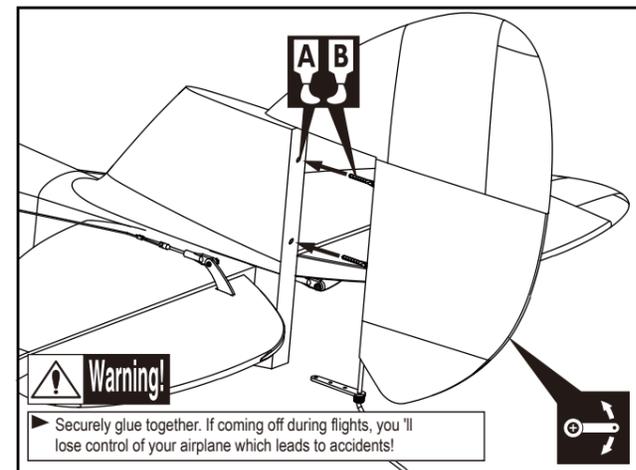
33 Keep some space about 1mm width between the rudder and tail edge.



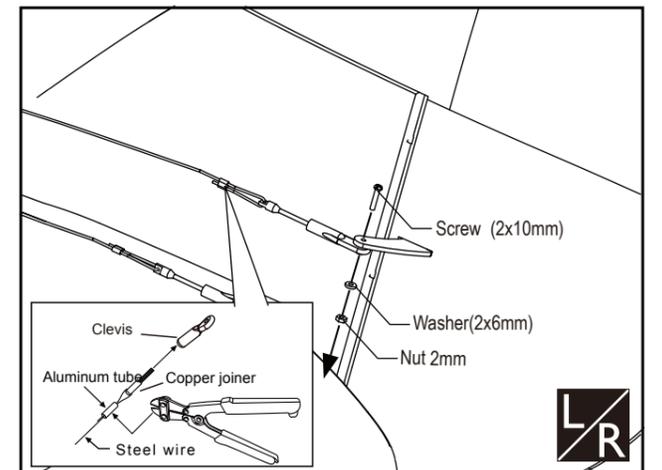
36 Epoxy the control horns to the slots in the rudder.



34 Epoxy the rudder to the vertical fin.



37 Lock the linkage to the control horn with screws and nuts as below.



Apply epoxy glue.
 Assemble left and right sides the same way.
 Pay close attention here!
 Do not overlook this symbol!

Apply instant glue (CA glue, super glue).
 Ensure smooth non-binding movement while assembling.
 Cut off shaded portion.

Apply epoxy glue.
 Assemble left and right sides the same way.
 Pay close attention here!
 Do not overlook this symbol!

Apply instant glue (CA glue, super glue).
 Ensure smooth non-binding movement while assembling.
 Cut off shaded portion.