

Before start ,please carefully read the explanations!

Pilatus PC-9



Specification:

Length: 1936mm(76")
Wing span: 2024mm(80")
Wing area: 64sq.dm(6.9sq.ft)
Wing loading: 106.3g/sq.dm(34.9oz/sq.ft)
Flying weight: 6.8kg(17.3bs)
Radio: 6ch & 8servos
Engine: 120 4-cycle
30cc gasoline engine

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.

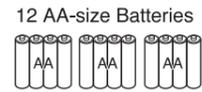
Fly only in open areas and preferably at a dedicated R/C flying site. We suggest having a qualified instructor carefully inspect your airplane before its first flight.Please carefully read and follow all instructions included with this airplane,your radio control system and any other components purchased 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 9 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.



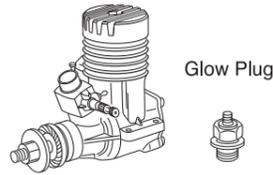
A minimum 6 channel transmitter for airplanes.



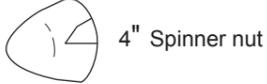
For handling the radio properly, refer to its instruction manual.

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

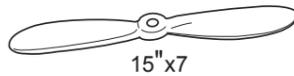
Muffler



3 Propeller Spinner

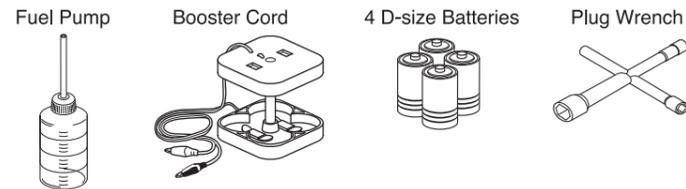


Purchase a propeller that will match your engine.

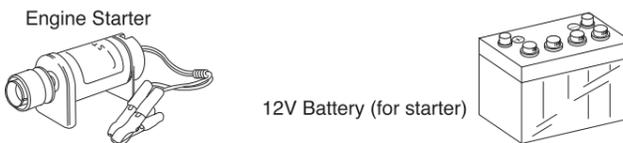


5 Required for engine starting: Glow engine fuel only.

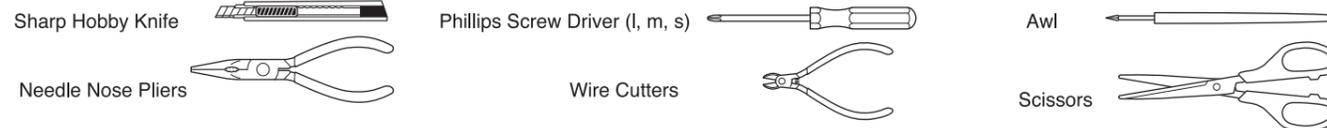
WARNING: Normal gasoline cannot be used with glow engines.



7 Other equipment for enhancing airplane operation & performance



TOOLS REQUIRED (Purchase separately!)

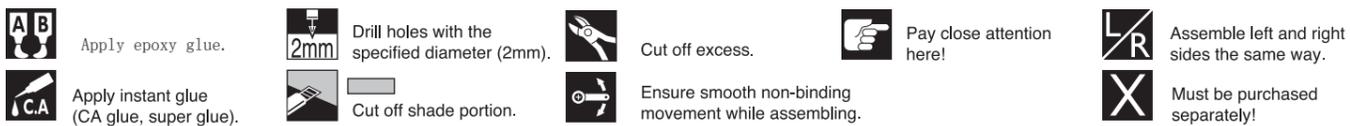


BEFORE YOU BEGIN

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:

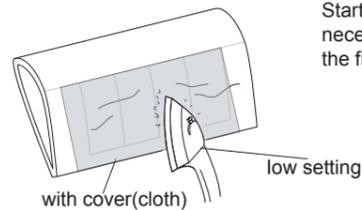


Do not overlook this Symbol!

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.

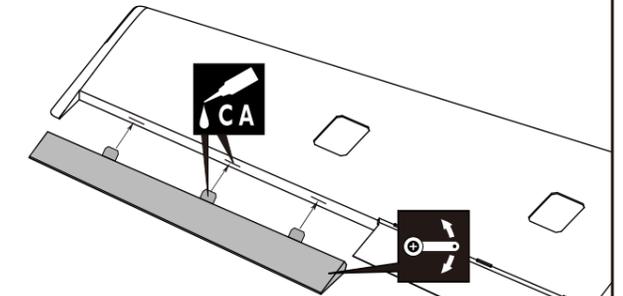


Accessory list for the coming installation steps.

	Clevis	2
	Retainer	2
	Rod (2x300mm)	2
	TP Screw (2.3x12mm)	8
	Screw (3x35mm)	2
	Servo tray(68.5x56.5x2mm)	2
	Wooden Block(20x20x8mm)	4
	Pin hinge(24x24mm)	6
	Washer(3x15mm)	2
	Lock Nut (3mm)	2
	Washer(3x15mm)	2

3

Assemble the aileron to main wing with instant type CA glue.



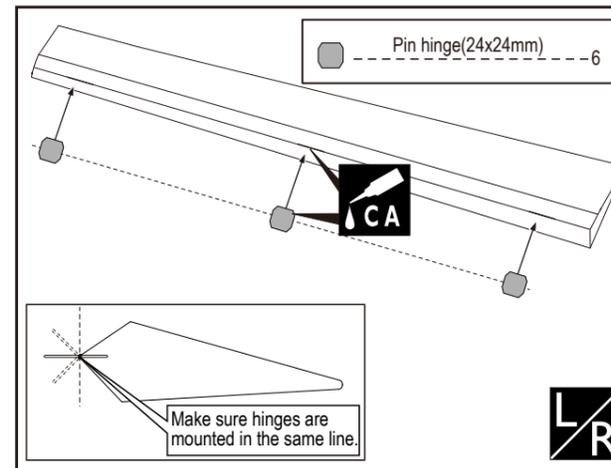
Warning!

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



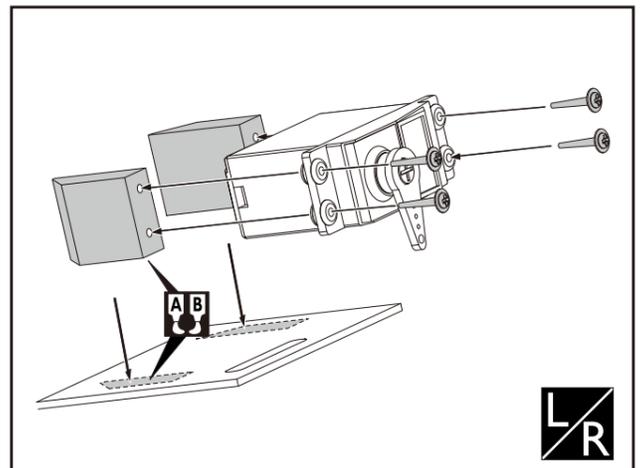
1

Apply instant type CA glue to aileron and pin hinge.



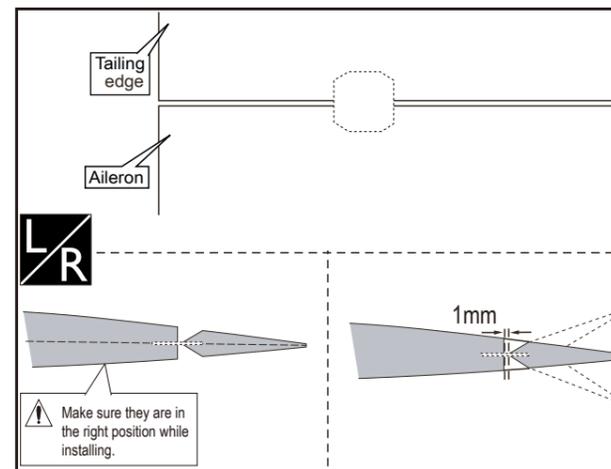
4

Install the servo as the illustration below.



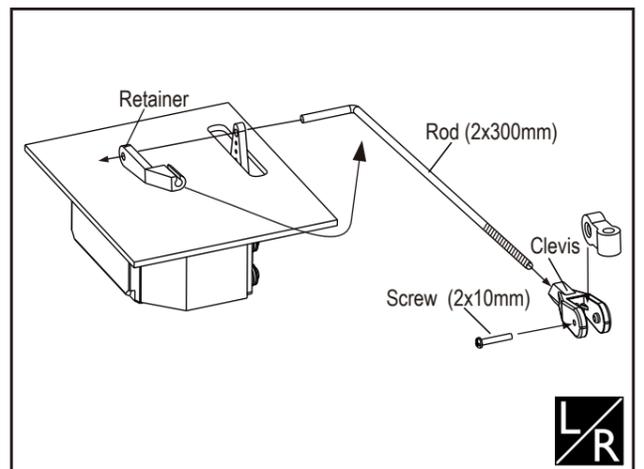
2

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



5

Install the nylon control horn and connect the linkage.



Apply epoxy glue.



Assemble left and right sides the same way.



Pay close attention here!



Apply instant glue (CA glue, super glue).



Ensure smooth non-binding movement while assembling.

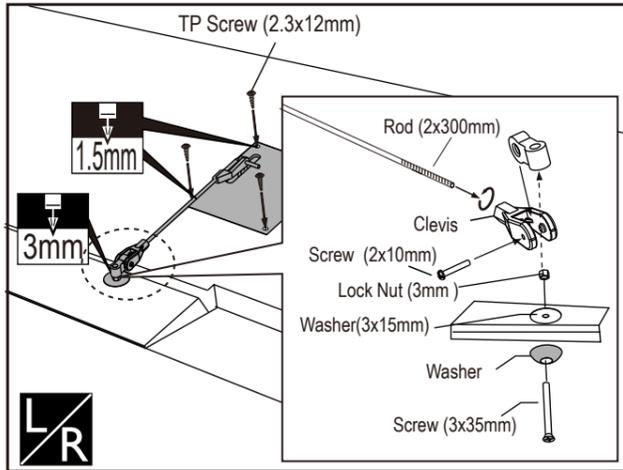


Cut off shaded portion.

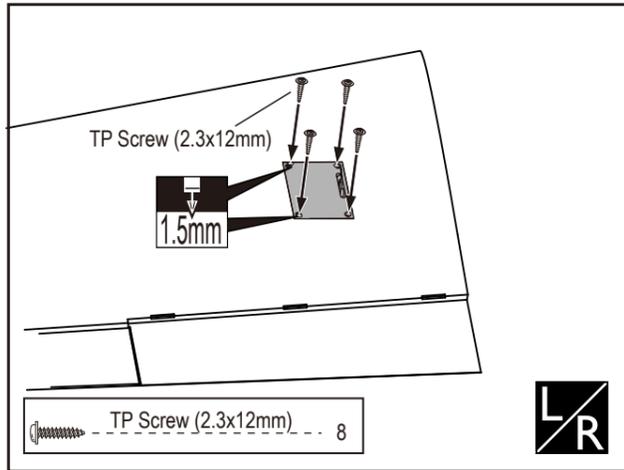
Do not overlook this symbol!



6 Secure the servo. Install the nylon control horn and connect the linkage.



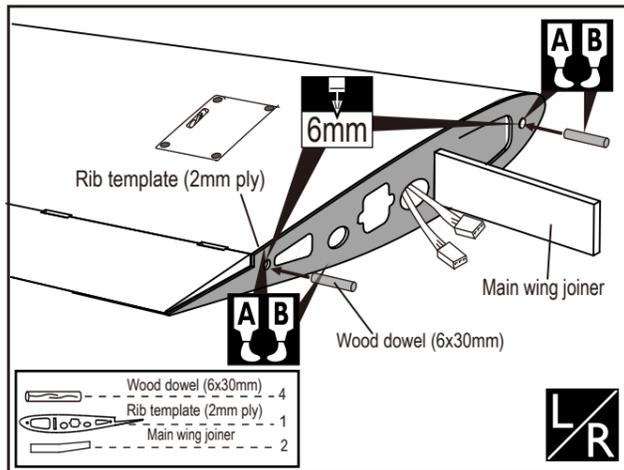
8 Assemble the flap servo to the main wing with screws.



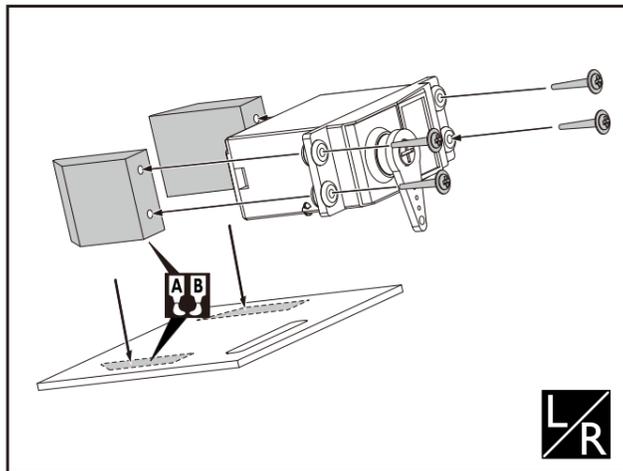
Warning! Accessory list for the coming installation steps.

- Servo tray (68.5x56.5x2mm) - 2
- Wooden Block (20x20x8mm) - 4
- TP Screw (2.3x12mm) - 8
- Rib template (2mm ply) - 1
- Wood dowel (6x30mm) - 4
- Main wing joiner - 2

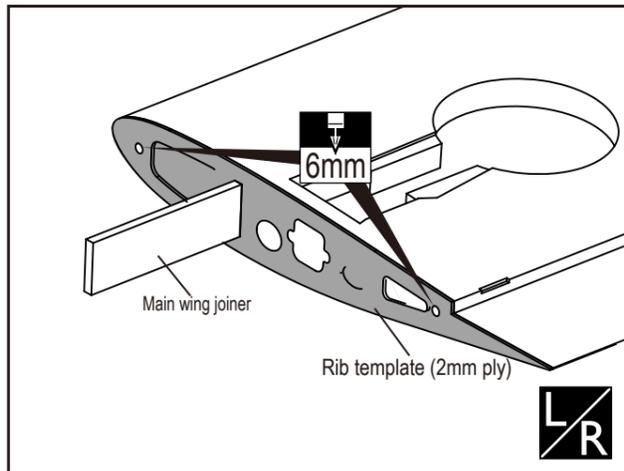
9 According to the rib template drill holes in the outer wings and epoxy wood dowel in them.



7 Fix the flap servo to the servo tray with epoxy.

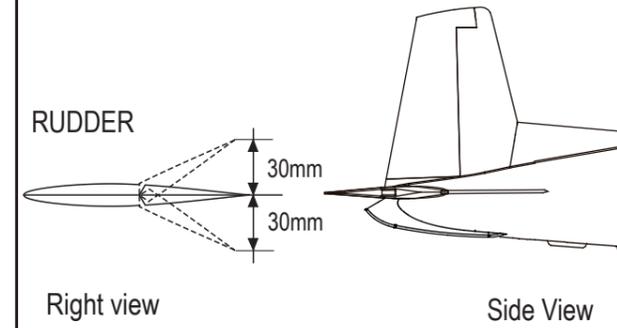


10 According to the rib template drill holes to the center wing.



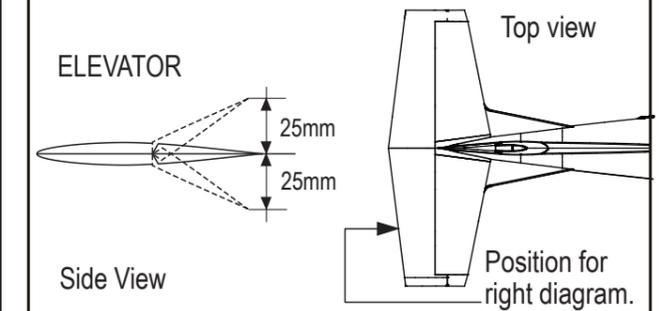
75 Adjustment of the rudder to make sure it can work perfectly.

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.



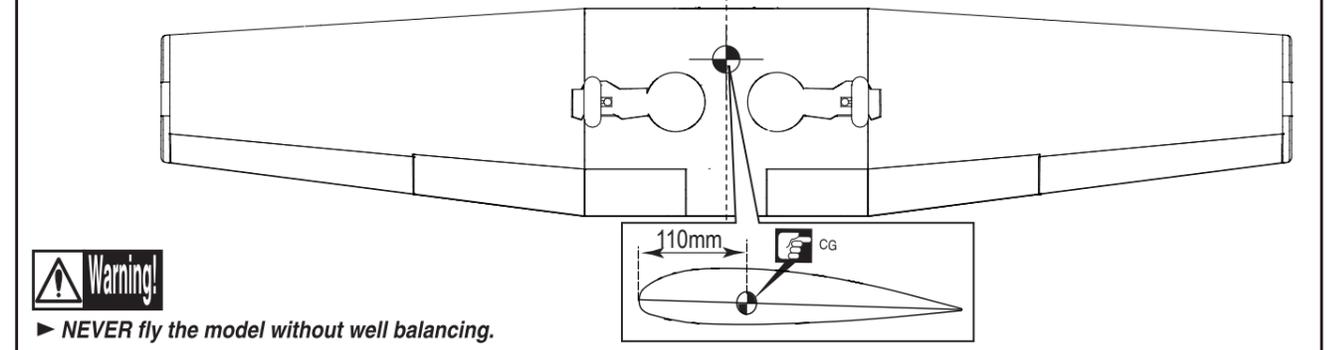
76 Adjustment of the elevator to make sure they can work perfectly.

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.



77 The centre of the Gravity.

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



- Apply epoxy glue.
- Assemble left and right sides the same way.
- Pay close attention here!
- Apply instant glue (CA glue, super glue).
- Ensure smooth non-binding movement while assembling.
- Cut off shaded portion.
- Do not overlook this symbol!**

- Apply epoxy glue.
- Assemble left and right sides the same way.
- Pay close attention here!
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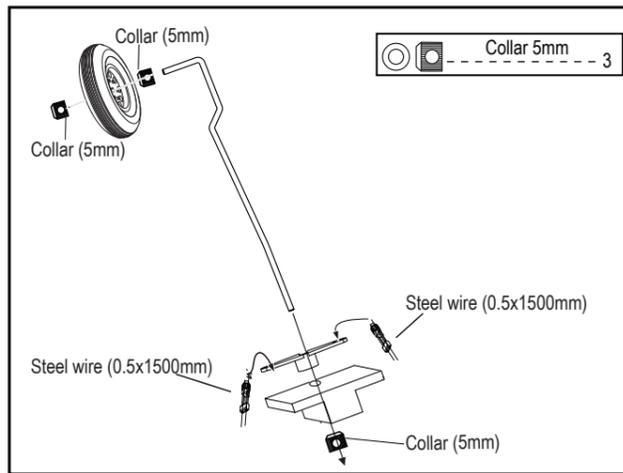


Accessory list for the coming installation steps.

	Wheel (90mm) ----- 2		Wheel (75mm) ----- 1
	Collar (5mm) ----- 5		Wooden supporter (46x28x14mm) ----- 1
	Wooden supporter (41.5x28x26mm) ----- 2		Landing gear (5mm) ----- 1
	Landing gear (5mm) ----- 1		TP Screw (3x20mm) ----- 4
	TP Screw (3x20mm) ----- 8		TP Screw (2.3x12mm) ----- 6
	Landing gear straps ----- 2		Aluminum part (60x6mm) ----- 1
	Wooden Block (25x15x13mm) ----- 4		Gear door ----- 2

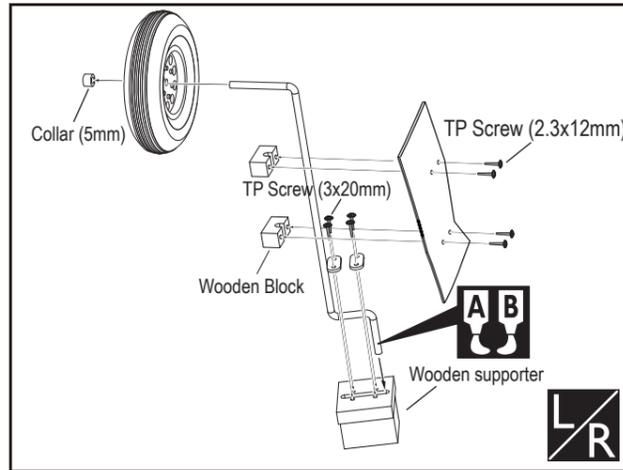
72

Install the wheel to the fixed landing gear.



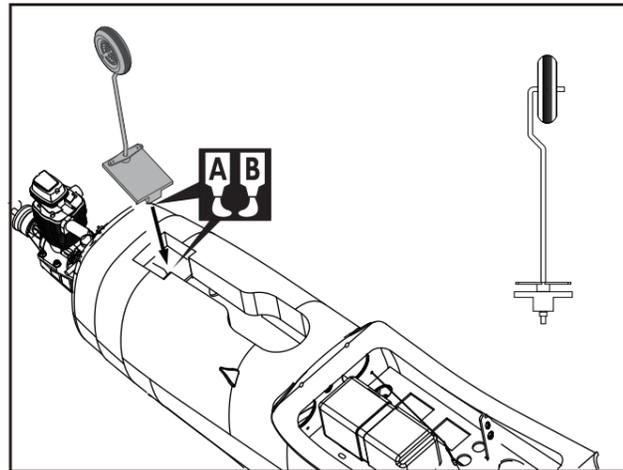
70

Install the wheel to the fixed landing gear.



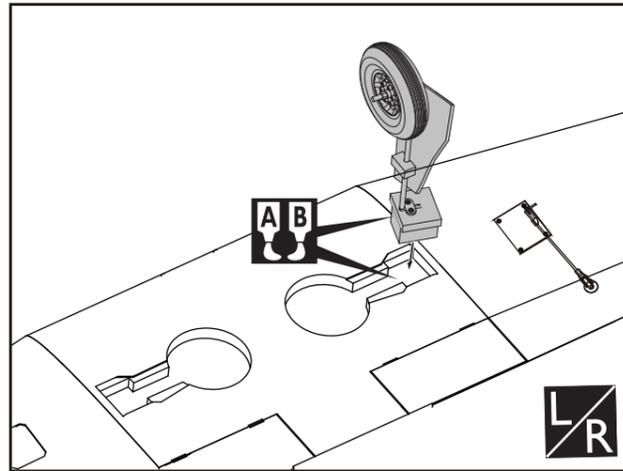
73

Epoxy the fixed landing gear to the fuselage.



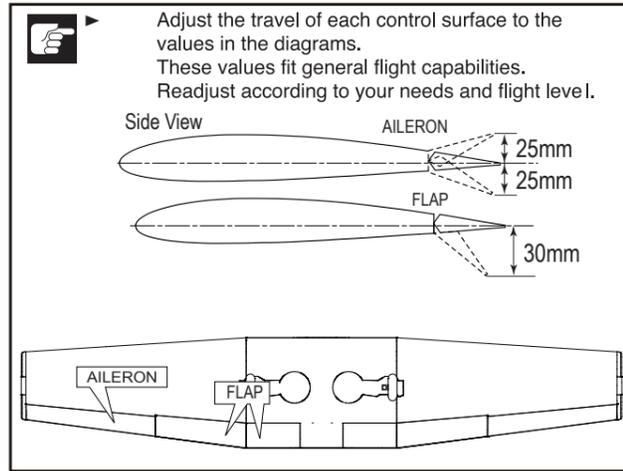
71

Epoxy the fixed landing gear to the main wing.



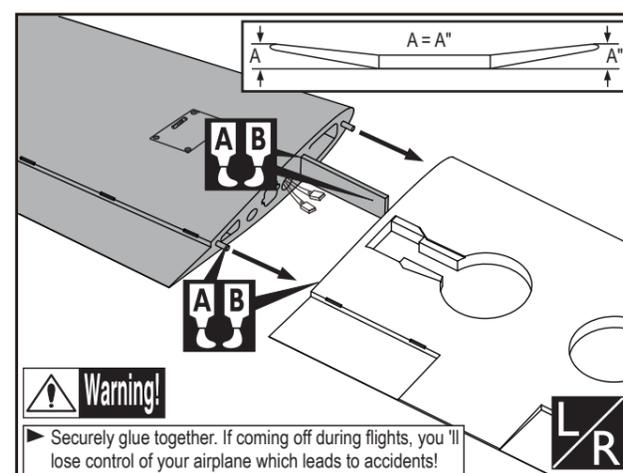
74

Adjustment of the aileron and flap to make sure they can work perfectly.



11

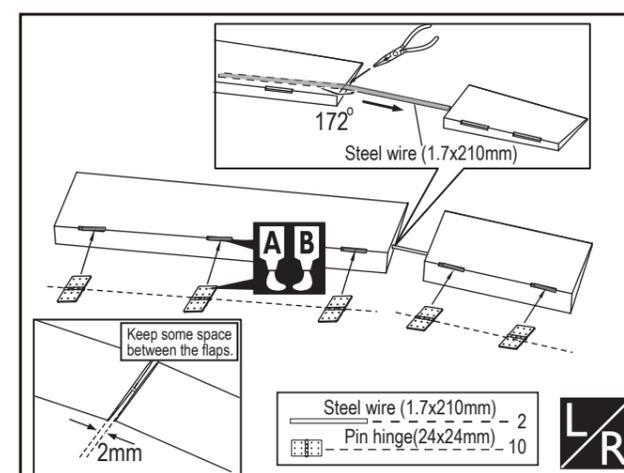
Epoxy main wings to the centre wing by main wing joiners.



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

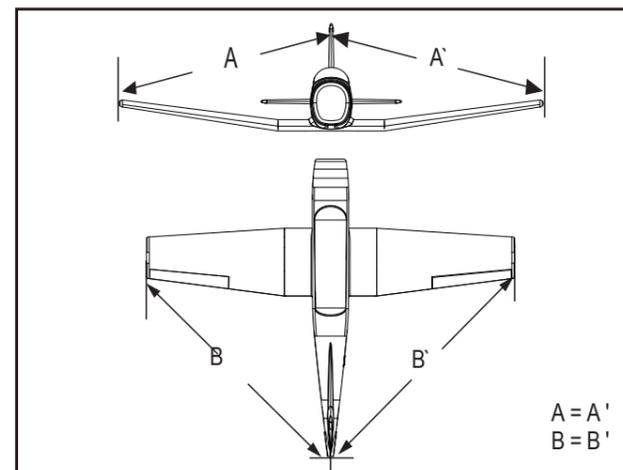
13

Connect the two flaps with metal wire, keep some space between them and epoxy the pinned hinges to the flaps as below.



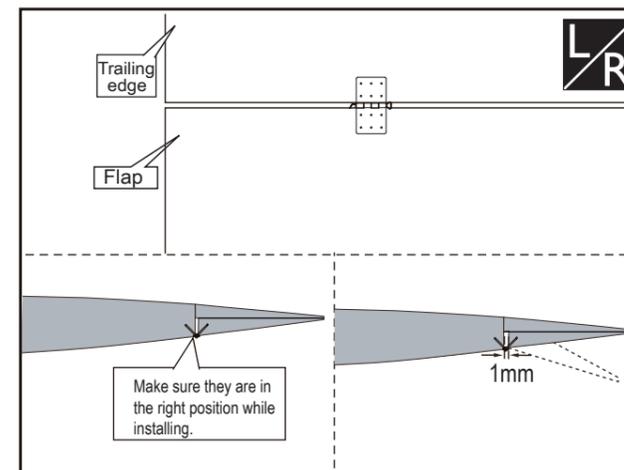
12

The sketch when the wings assemble finished.



14

Keep some space about 1mm width between trailing edge and flap.

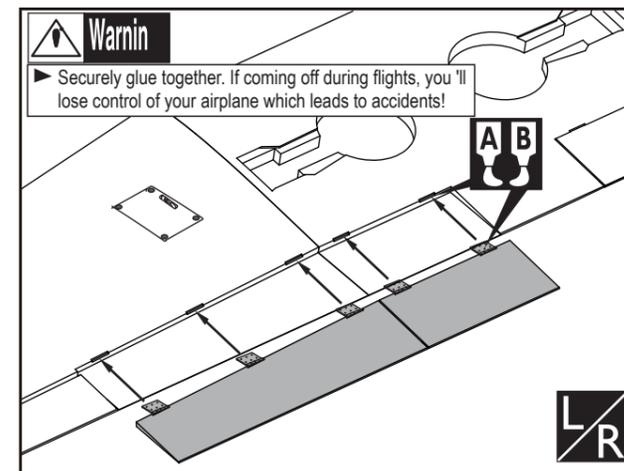


Accessory list for the coming installation steps.

	Clevis ----- 2
	Retainer ----- 2
	Rod (2x300mm) ----- 2
	Screw (3x35mm) ----- 2
	Washer (3x15mm) ----- 2
	Lock Nut (3mm) ----- 2
	Washer (3x15mm) ----- 2
	Wood dowel (6x50mm) ----- 2
	Pin hinge (36x20x1mm) ----- 10
	Steel wire (1.7x210mm) ----- 2
	Screw (6x50mm) ----- 2
	Blind Nut (6mm) ----- 2
	Reinforcement Plate ----- 1

15

Epoxy the flaps to the wings as illustration.



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.



Warning!



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.

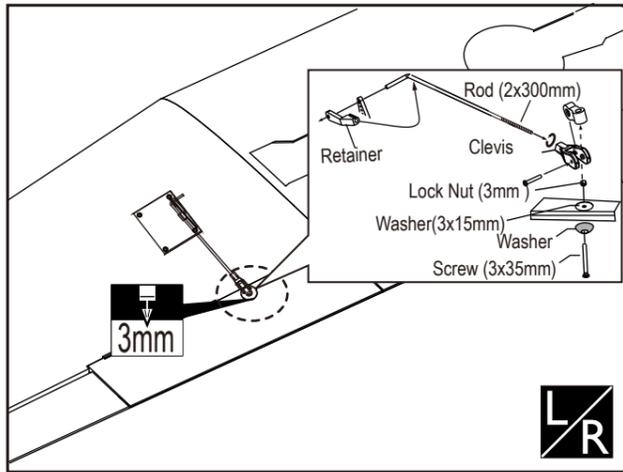


Cut off shaded portion.

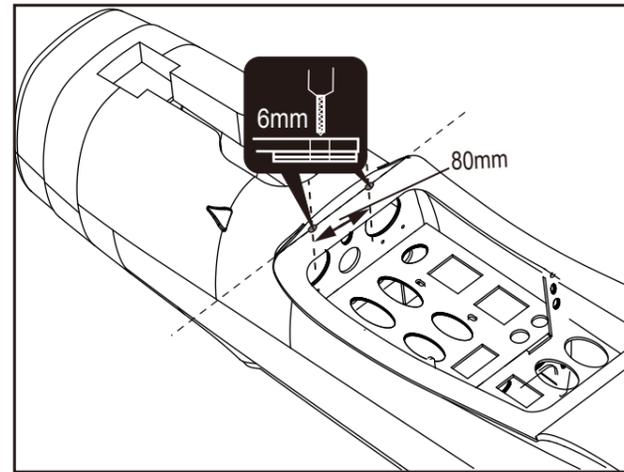


Warning!

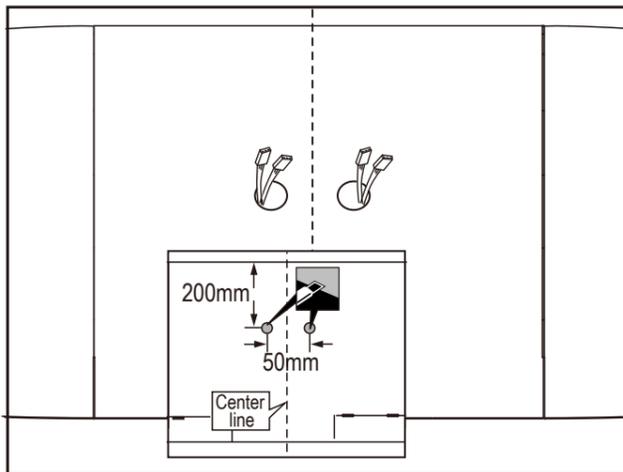
16 Secure the servo. Install the nylon control horn and connect the linkage.



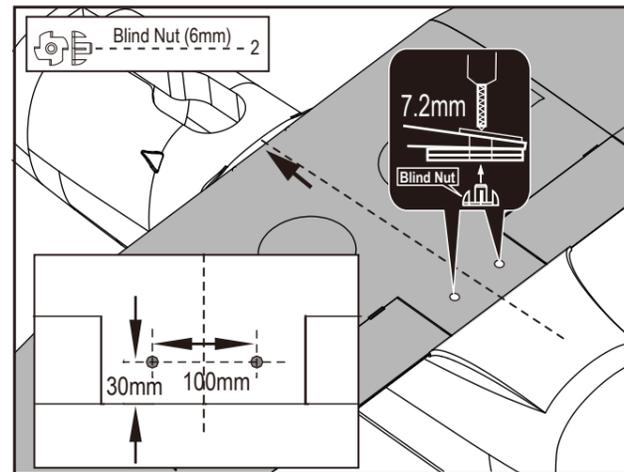
19 Drill holes in the fuselage for installing the wings.



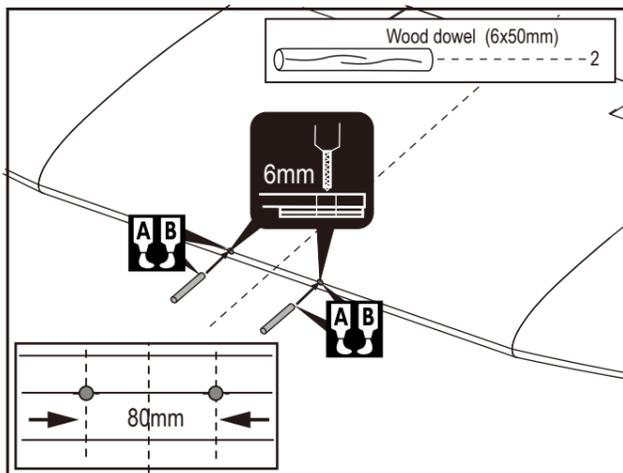
17 Trim two holes to pull the servo extension lines and fuel tube from the holes.



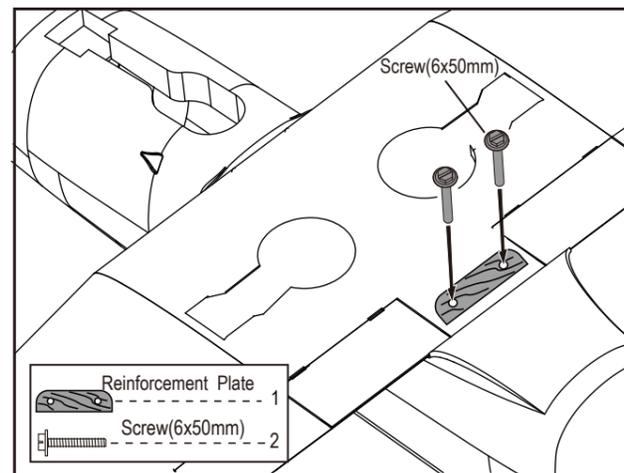
20 Drill holes in the appropriate position through the wing to fuselage, set blind nut in the fuselage.



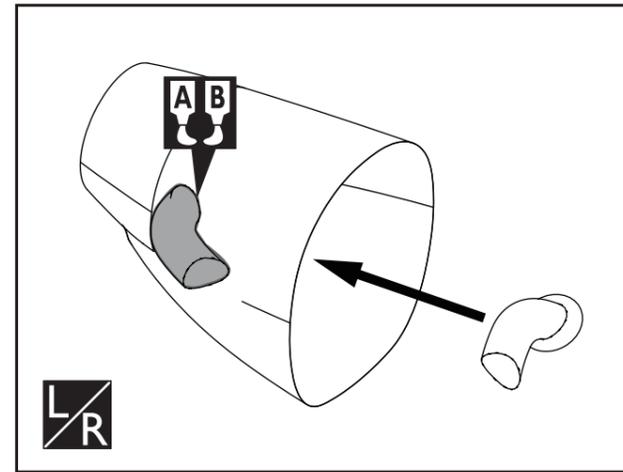
18 Epoxy the dowel on the leading edge of wing.



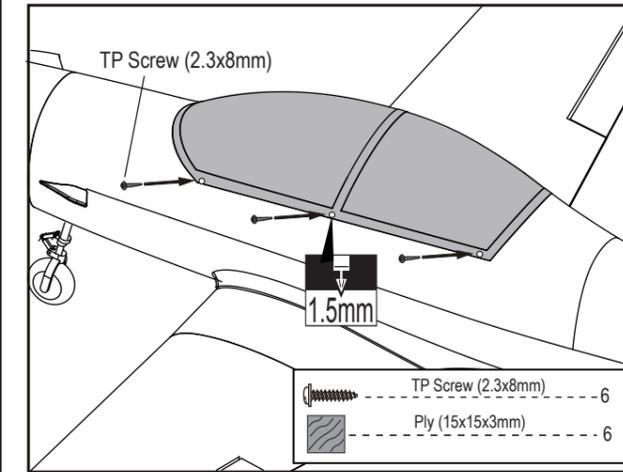
21 Put the reinforcement plate on the holes and fix the wings to the fuselage with screws as illustration.



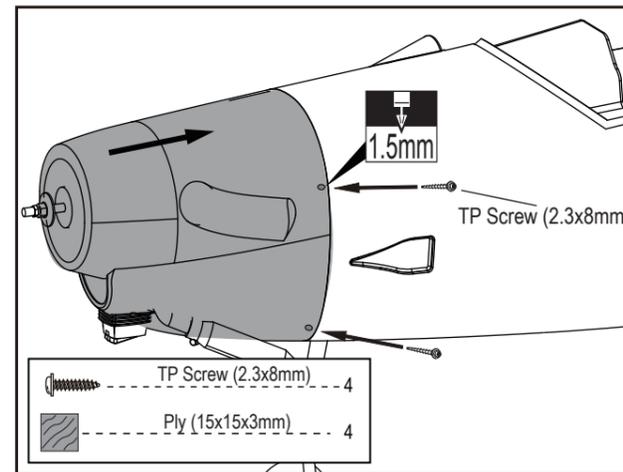
64 Epoxy the exhaust to the cowling from Inner.



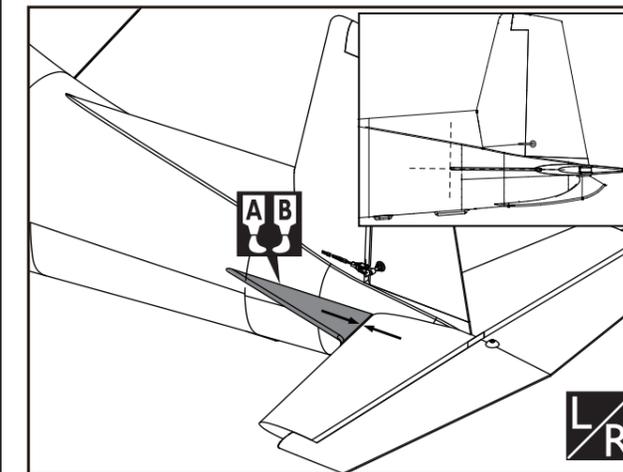
67 Epoxy plies under the canopy and assemble the canopy to fuselage with screw.



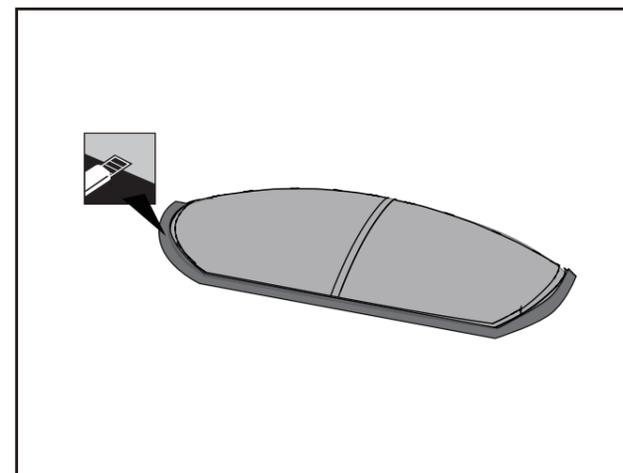
65 Epoxy the plies under the cowling in fuselage and assemble the cowling to fuselage with TP screw.



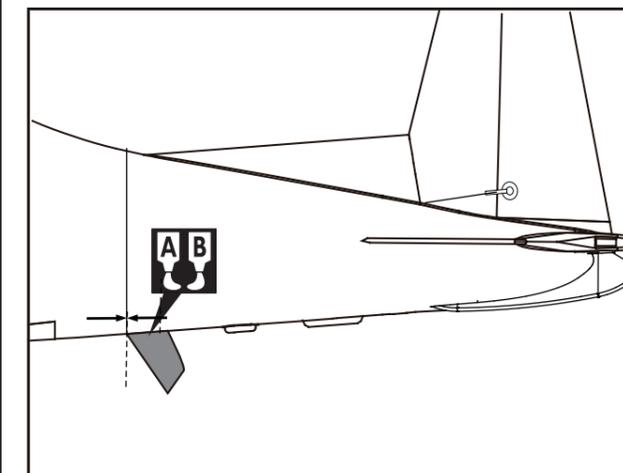
68 Epoxy the PVC decoration parts to appropriate position between the fuselage and illustration.



66 Trim the canopy along the shaded line.



69 Epoxy the decoration parts to appropriate position in the fuselage as below.



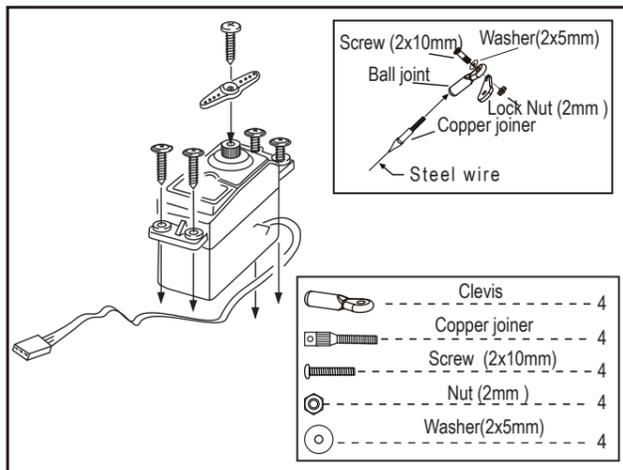
Apply epoxy glue.
 Assemble left and right sides the same way.
 Pay close attention here!
 Do not overlook this symbol!

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

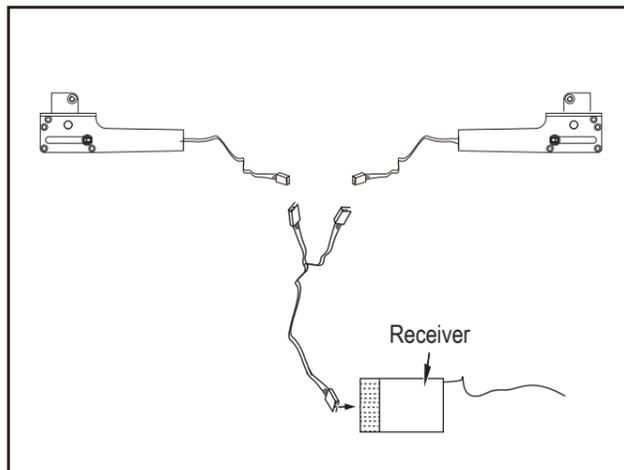
Apply epoxy glue.
 Assemble left and right sides the same way.
 Pay close attention here!
 Do not overlook this symbol!

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

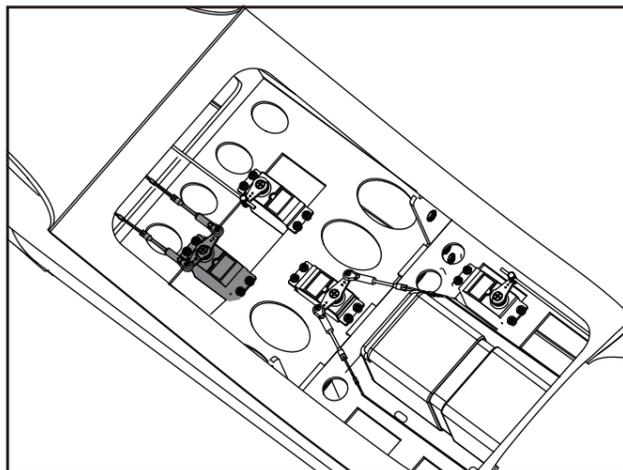
59 Install the rudder servo.



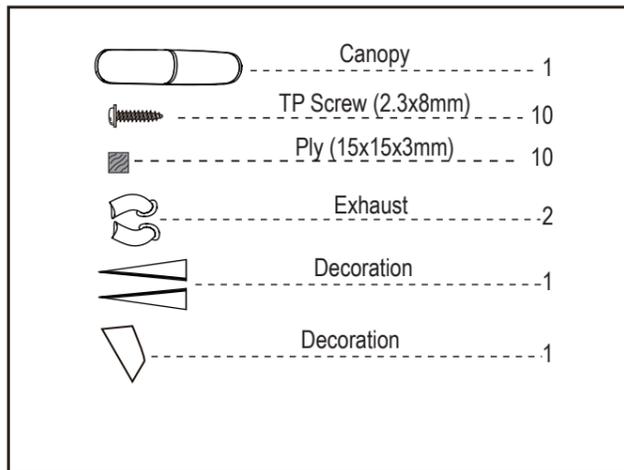
62 Connect the electric retract & receiver as illustration below.



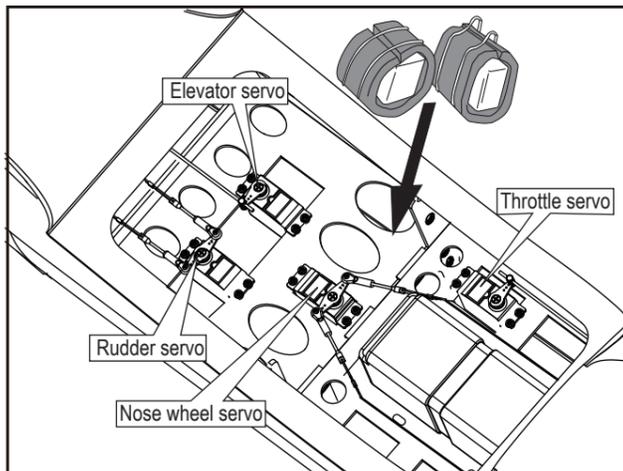
60 Assemble the rudder servo to appropriate position in the fuselage.



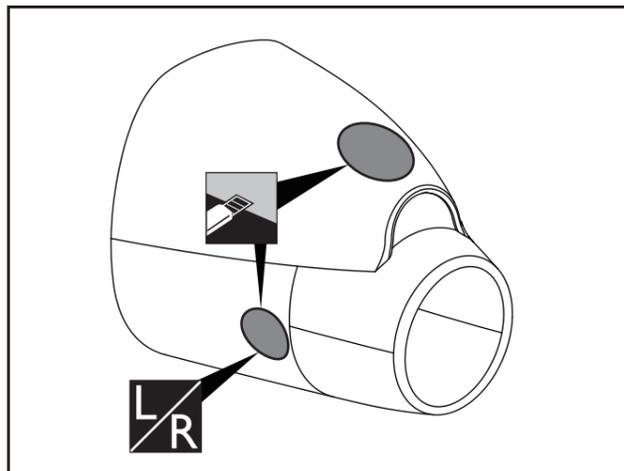
Warning! Accessory list for the coming installation steps.



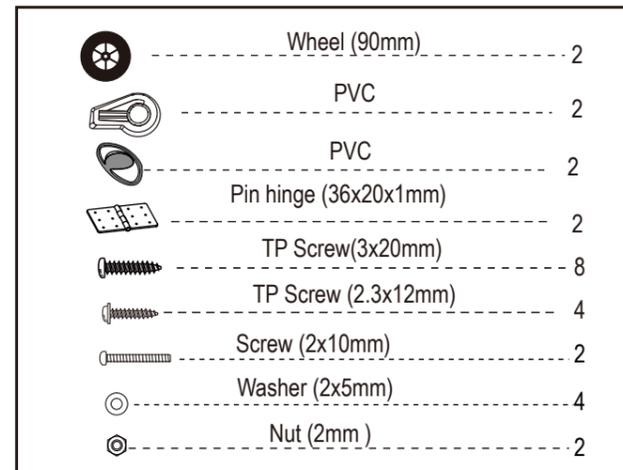
61 The sketch map when the servos install completion. Mount the receiver and the battery in the fuselage.



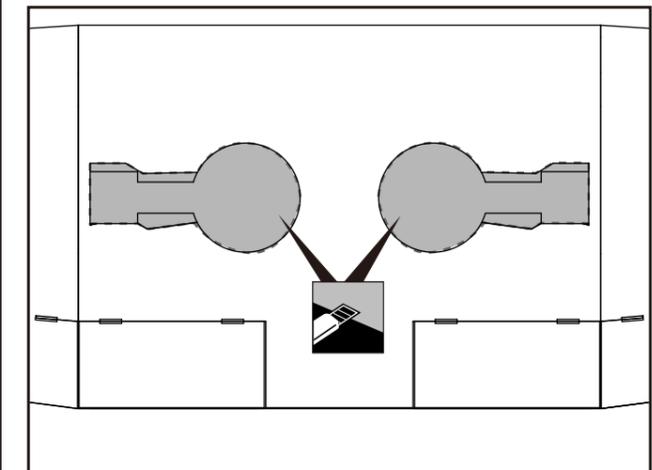
63 Trim the cowling along the shaded line.



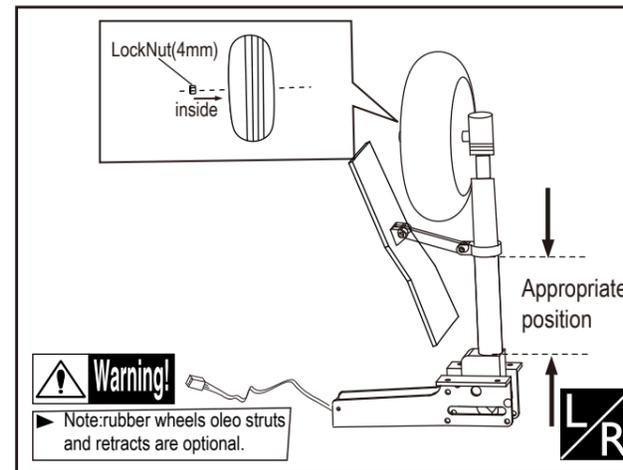
Warning! Accessory list for the coming installation steps.



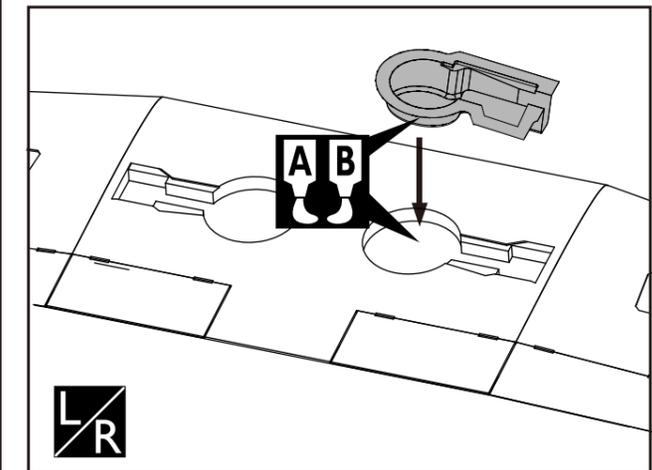
24 Trim the shaded portion covering off the mid wing carefully



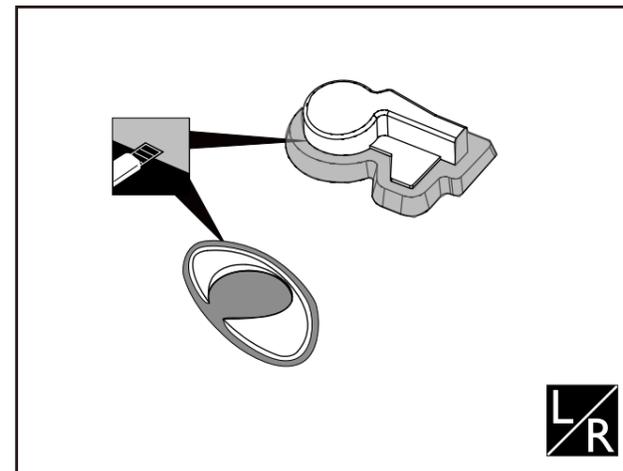
22 Assemble the wheel and the baffle to the landing gear.



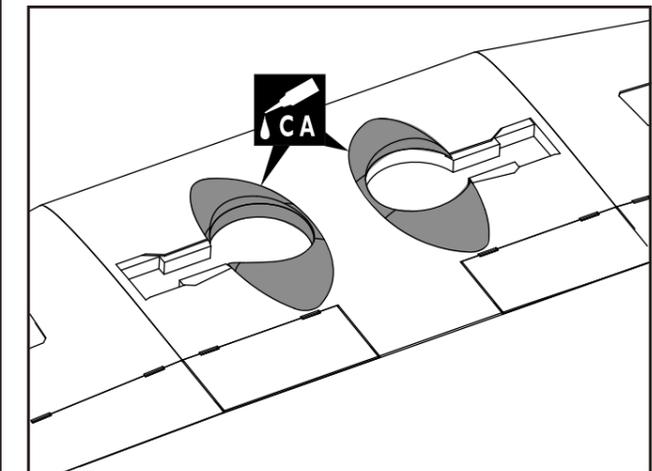
25 Cut away the film on the position for the air retract landing and epoxy the wheel house to relevant position.



23 Cut off the surplus PVC part carefully along the shaded line



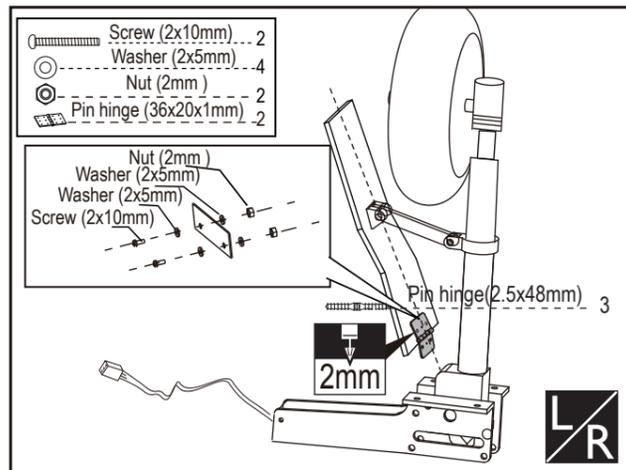
26 Glue the decoration PVC part around the wheel well.



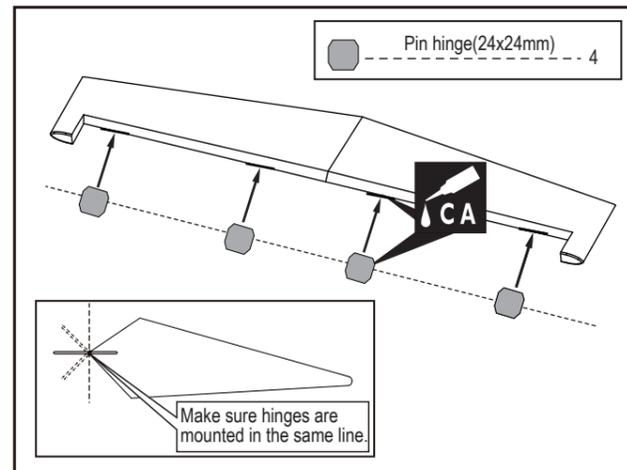
Apply epoxy glue.	Assemble left and right sides the same way.	Pay close attention here!	Do not overlook this symbol!
Apply instant glue (CA glue, super glue).	Ensure smooth non-binding movement while assembling.	Cut off shaded portion.	

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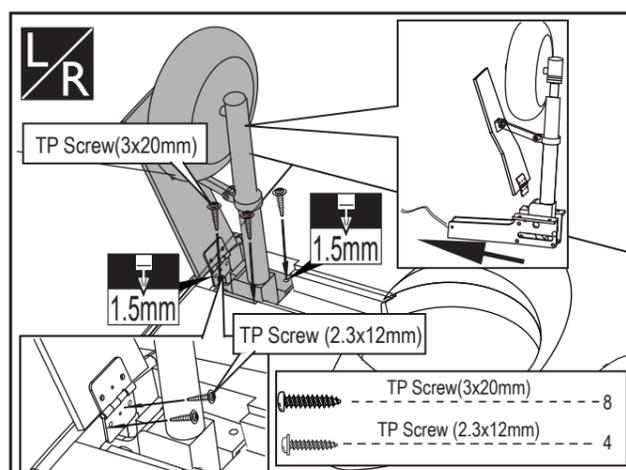
27 Assemble one part of the pin hinge to the baffle with screw as illustration.



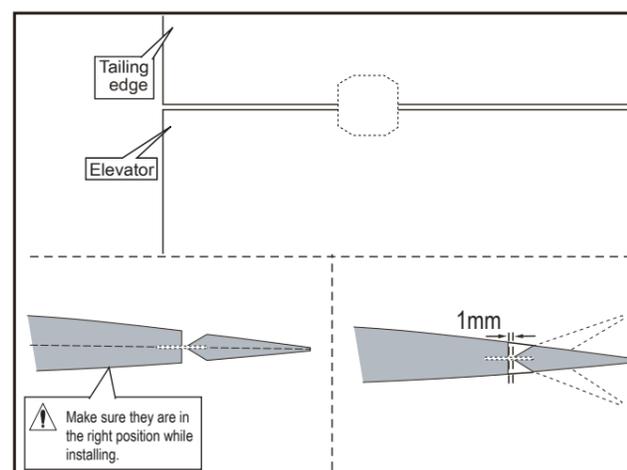
29 Apply instant type CA glue to elevator and pin hinge.



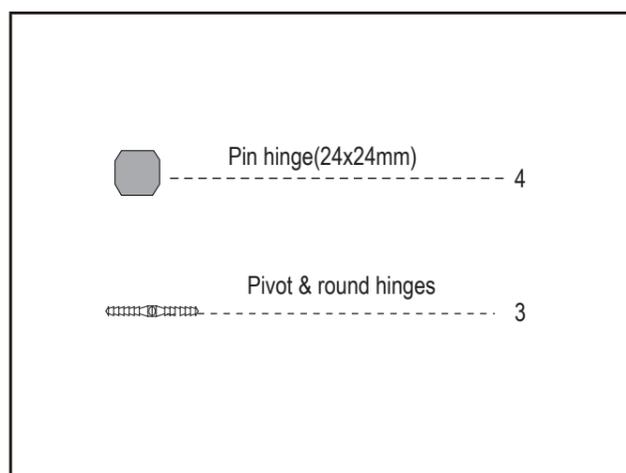
28 Assemble another part of the pin hinge to the mid wing and assemble the retract to the mid wing with screw.



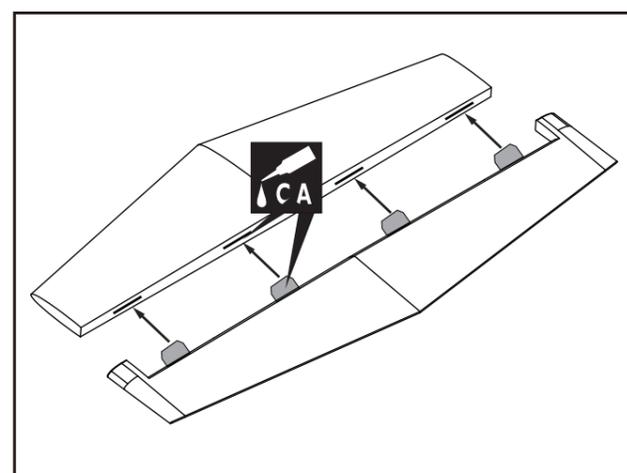
30 Keep some space about 1mm width between elevator and tailing edge.



Warning! Accessory list for the coming installation steps.



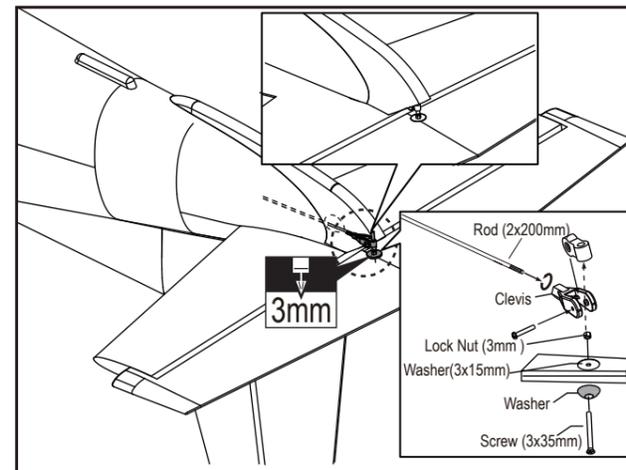
31 Glue the elevator to the stabilizer by CA and epoxy.



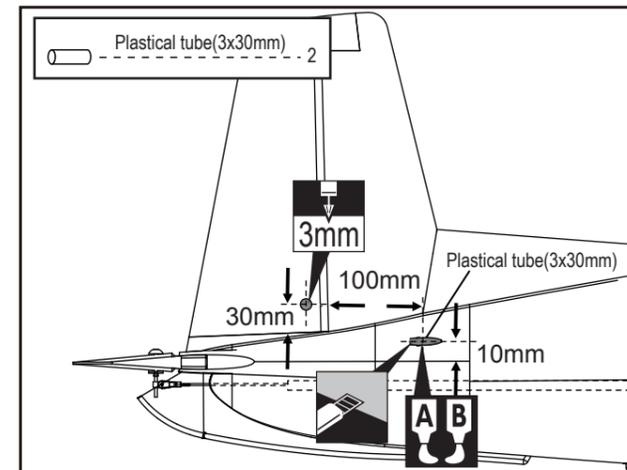
Apply epoxy glue.
 Assemble left and right sides the same way.
 Pay close attention here!
 Do not overlook this symbol!

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

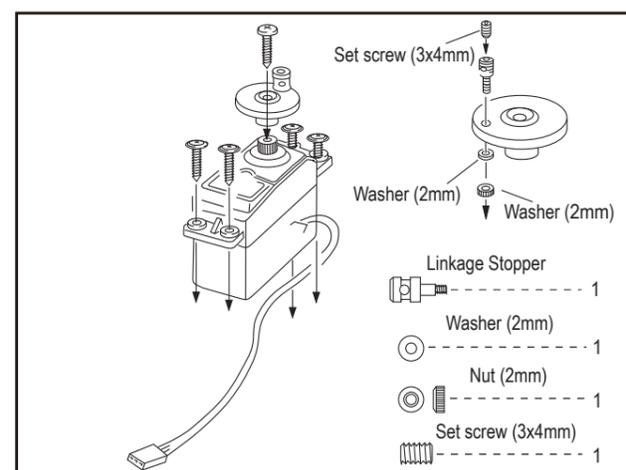
53 Connecting the elevator servo and the elevator.



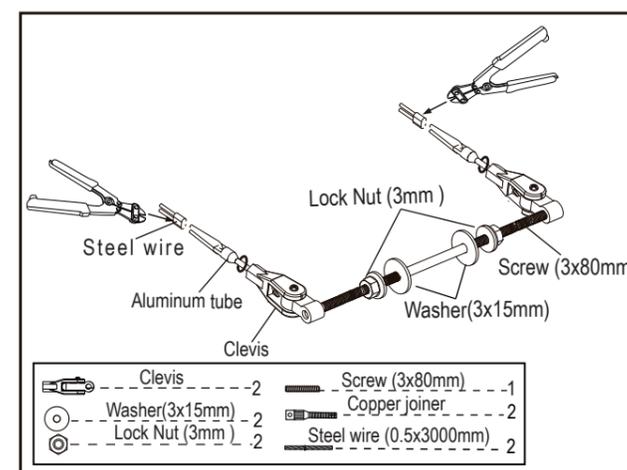
56 Drill small holes to appropriate position in the rudder and the fuselage as below, epoxy the plastical tube to the hole in the fuselage.



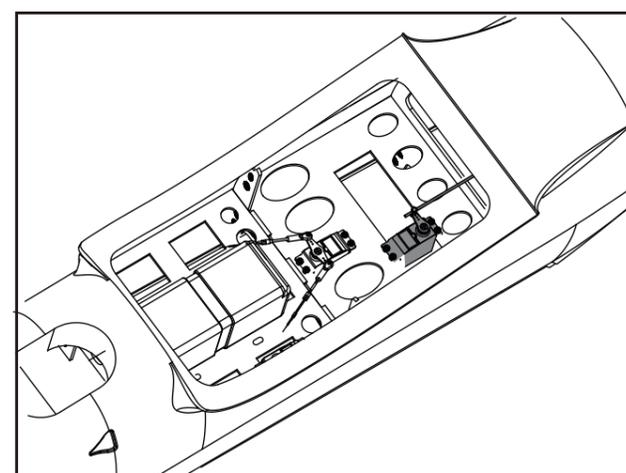
54 Install the elevator servo.



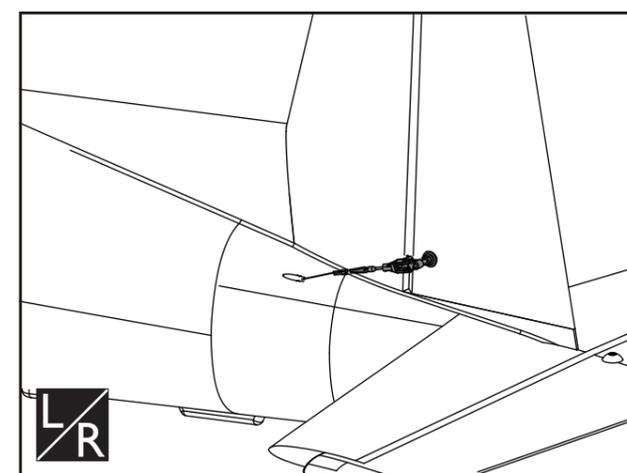
57 The sketch map after the rudder shaft assemble finished.



55 Assemble the elevator servo to appropriate position in the fuselage.



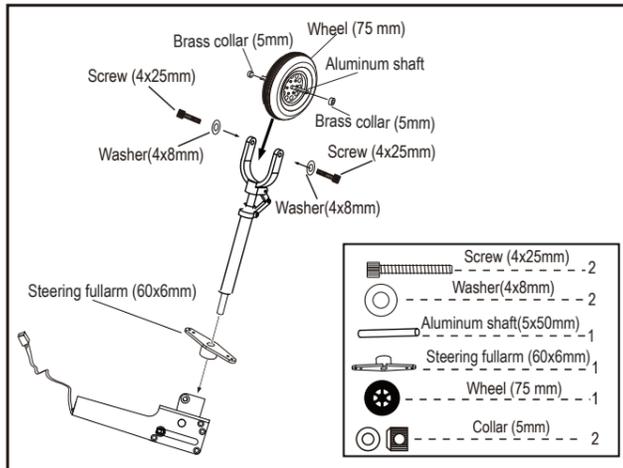
58 The sketch map after connect the rudder servo and the rudder via the rudder shaft and the steel wires.



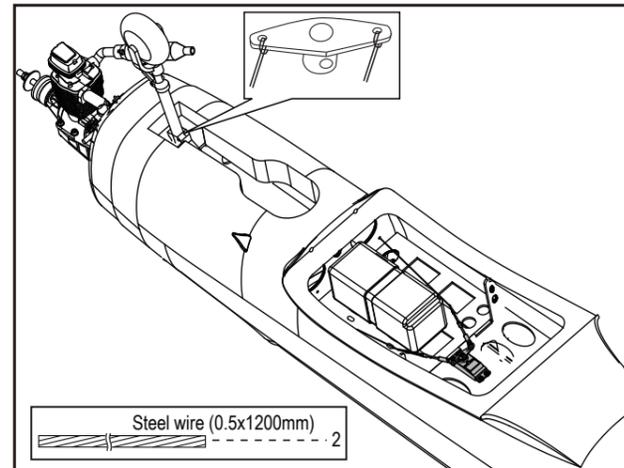
Apply epoxy glue.
 Assemble left and right sides the same way.
 Pay close attention here!
 Do not overlook this symbol!

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

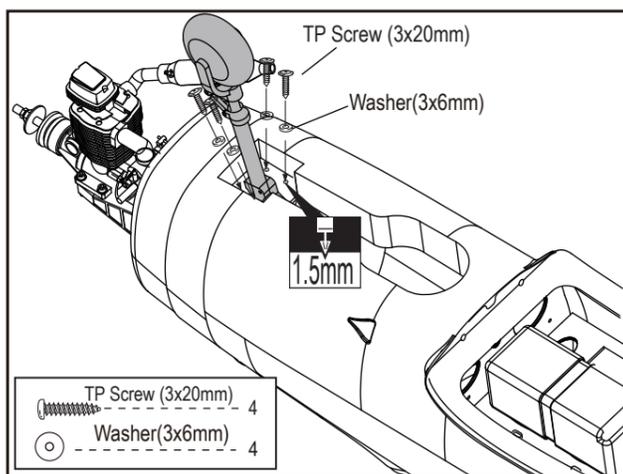
48 Assemble the nose wheel.



51 Assemble the steering fullarm around the landing gear.



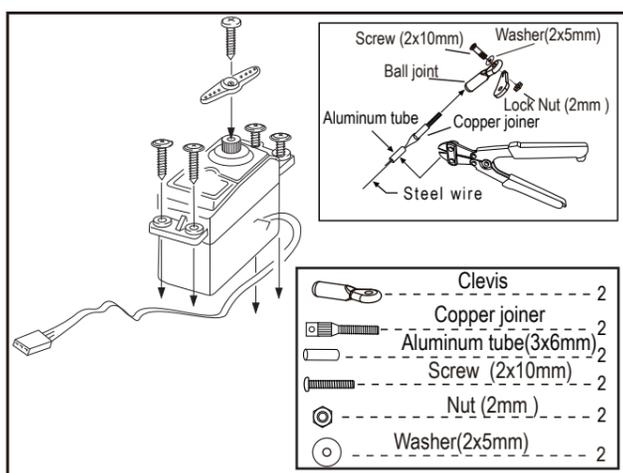
49 Install the nose landing gear to appropriate position in the fuselage.



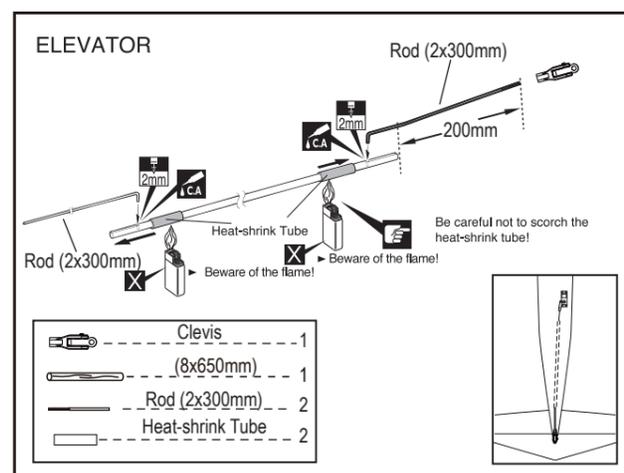
Accessory list for the coming installation steps.

- | | |
|-------------------------|---|
| Screw (3x35mm) | 1 |
| Clevis | 3 |
| Matal tube(8x650mm) | 1 |
| Rod (2x300mm) | 2 |
| Heat-shrink Tube | 2 |
| Washer(3x15mm) | 3 |
| Lock Nut (3mm) | 3 |
| Washer(3x15mm) | 1 |
| Screw (3x80mm) | 1 |
| Steel wire (0.5x3000mm) | 2 |
| Matal tube (3x30mm) | 1 |
| Clevis | 2 |
| Screw (2x10mm) | 2 |
| Nut (2mm) | 2 |
| Washer(2x5mm) | 2 |
| Copper joiner | 4 |
| Aluminum tube(3x6mm) | 4 |

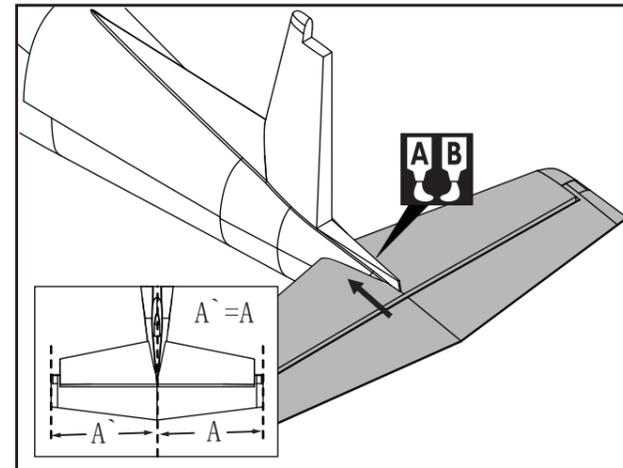
50 Install the servo.



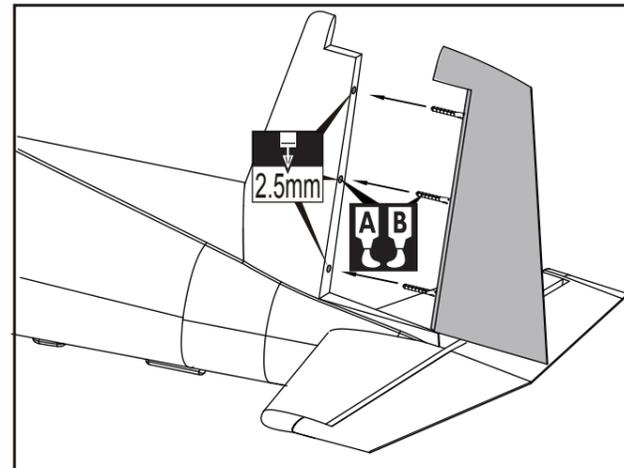
52 Assemble the linkage rods for elevator.



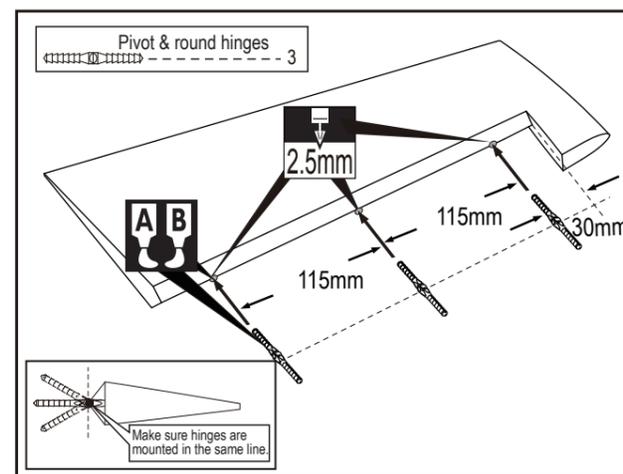
32 Epoxy the stabilizer to the fuselage steadily.



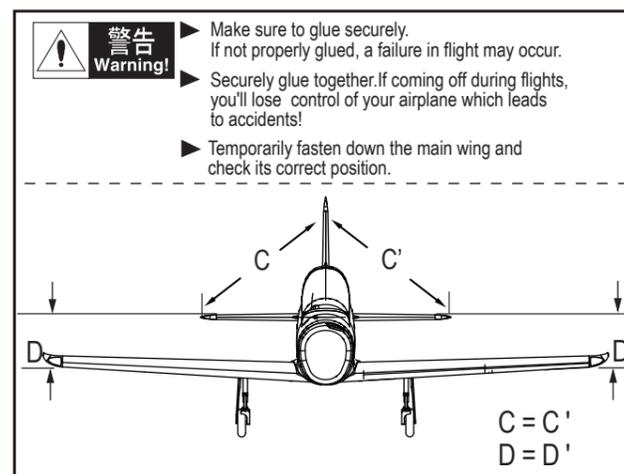
35 Drill holes to the relevant position in the tailing edge and epoxy the rudder to them.



33 Drill holes to appropriate position in the rudder and epoxy the pin hinges in them.



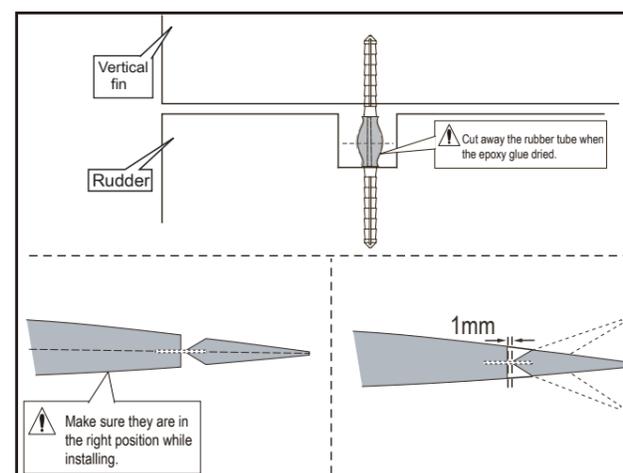
36 Assembly of the stabilizer.



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

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

34 keep some space about 1mm width between the vertical fin and rudder



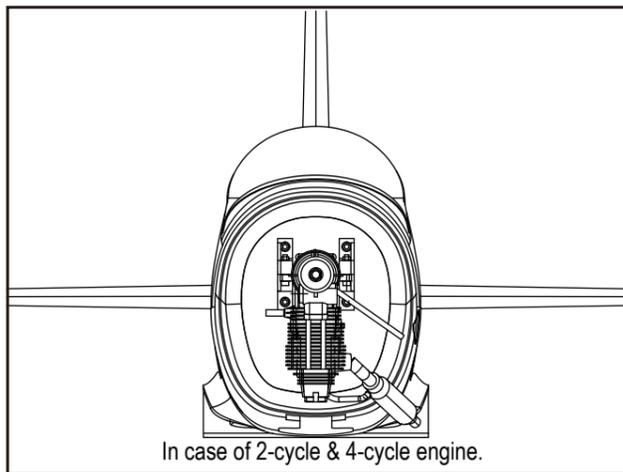
Accessory list for the coming installation steps.

- | | |
|-------------------------|----|
| Engine mount (68x105mm) | 2 |
| Screw (4x35mm) | 4 |
| Screw (4x25mm) | 4 |
| Washer(4x8mm) | 12 |
| Spring Washer (4mm) | 4 |
| Nut (4mm) | 4 |
| Linkage Stopper | 2 |
| Rod (2x650mm) | 1 |
| Fuel tank (550cc) | 1 |

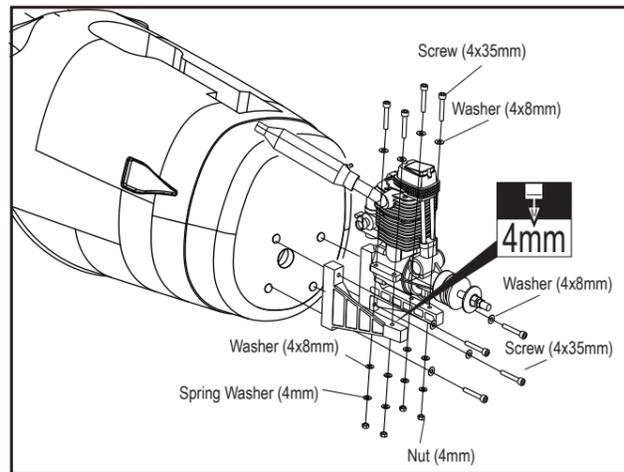
AB Apply epoxy glue. **LR** Assemble left and right sides the same way. **Hand icon** Pay close attention here! **Warning icon** Do not overlook this symbol!

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

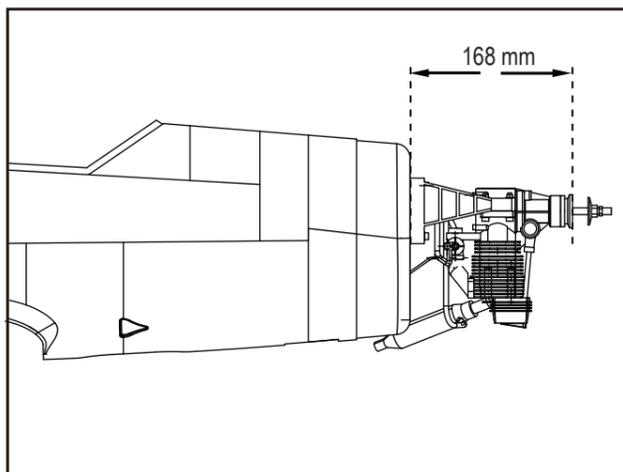
37 The front view of the engine install completion.



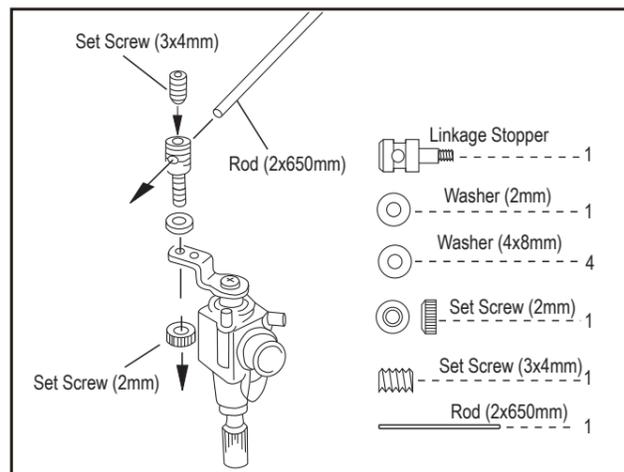
40 Assemble the engine.



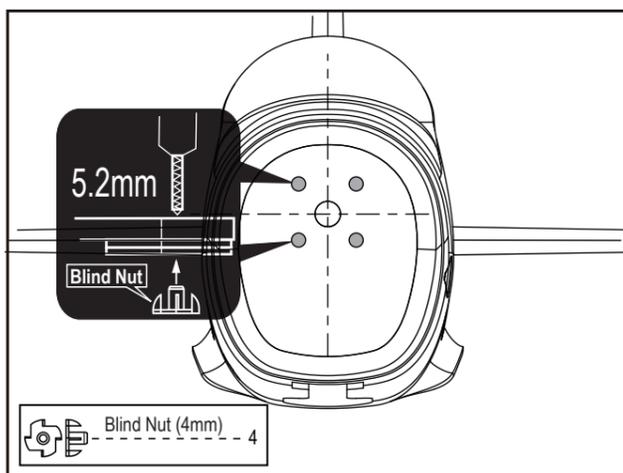
38 The side view when the engine install completion.



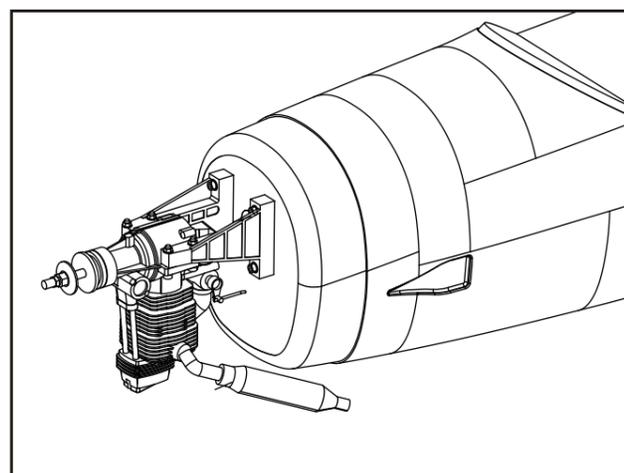
41 Assemble the throttle linkage.



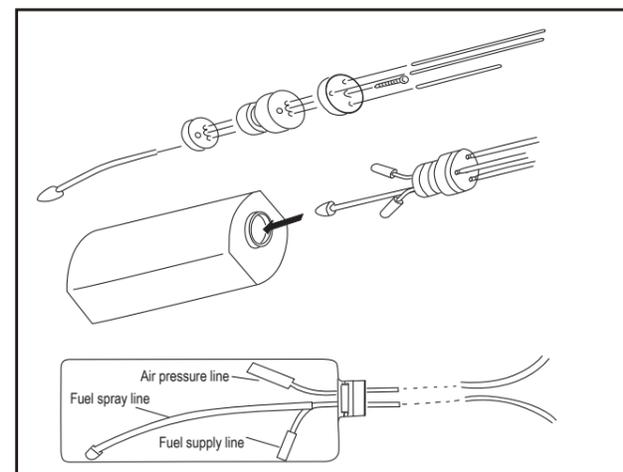
39 Drill four holes at the diameters as shown for engine mount.



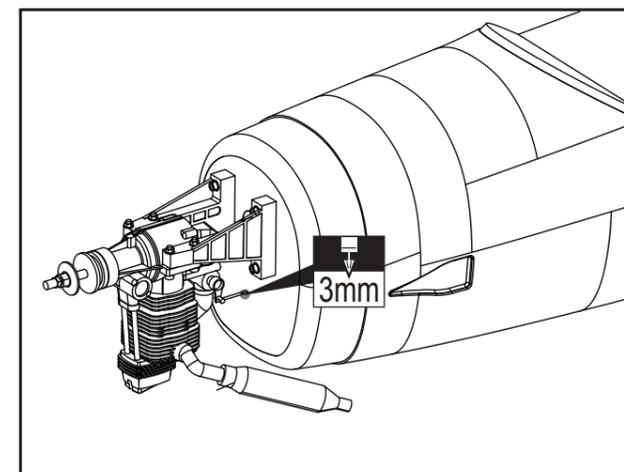
42 The sketch map when the engine install completion.



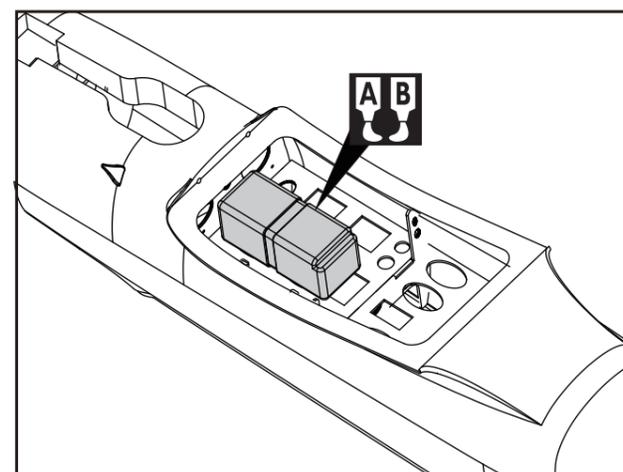
43 Assembly of the fuel tank.



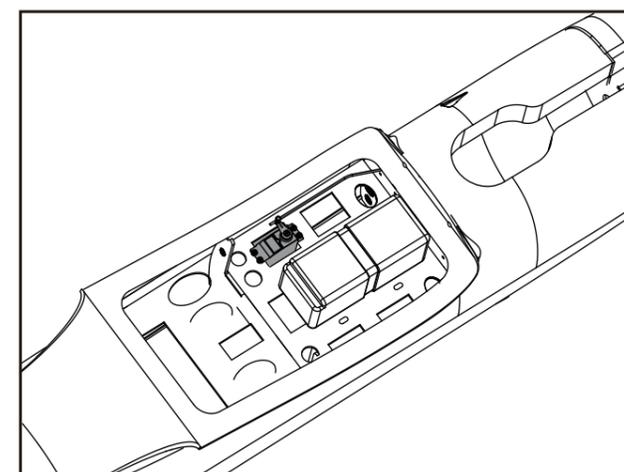
46 Drill a small hole in appropriate position for throttle.



44 Epoxy the fuel tank in the fuselage.



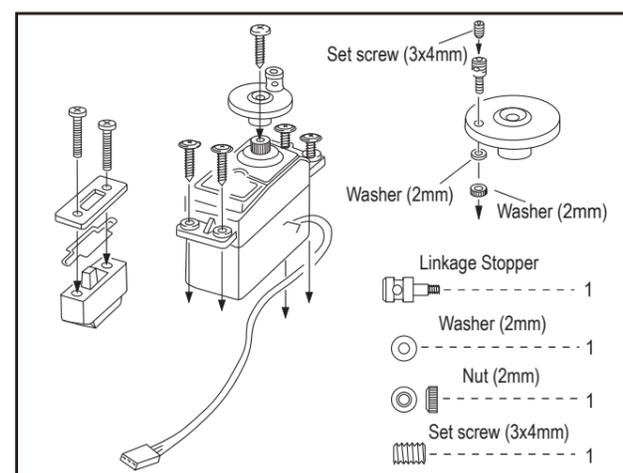
47 Assemble the throttle servo to the fuselage.



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

42 The sketch map when the engine install completion.

45 Install the switch and the throttle servo



Warning! Accessory list for the coming installation steps.

	Clevis	2
	Copper joiner	2
	Aluminum tube(3x6mm)	2
	Screw (2x10mm)	2
	Nut (2mm)	2
	Washer(2x5mm)	2
	TP Screw (3x20mm)	4
	Steel wire (0.5x1500mm)	2
	Wheel (75 mm)	1

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.