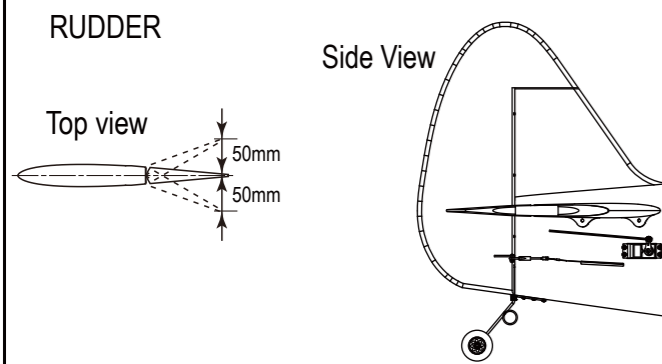


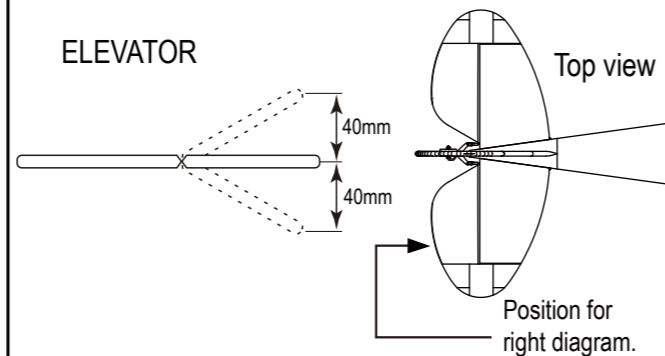
**60** Adjustment of the rudder, be sure it can work perfectly.

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.



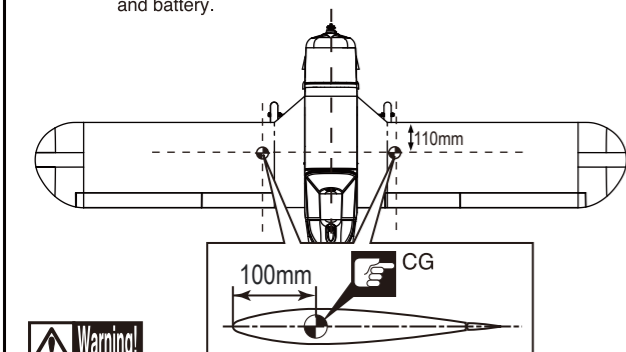
**61** Adjustment of the elevator, be sure it can work perfectly.

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.



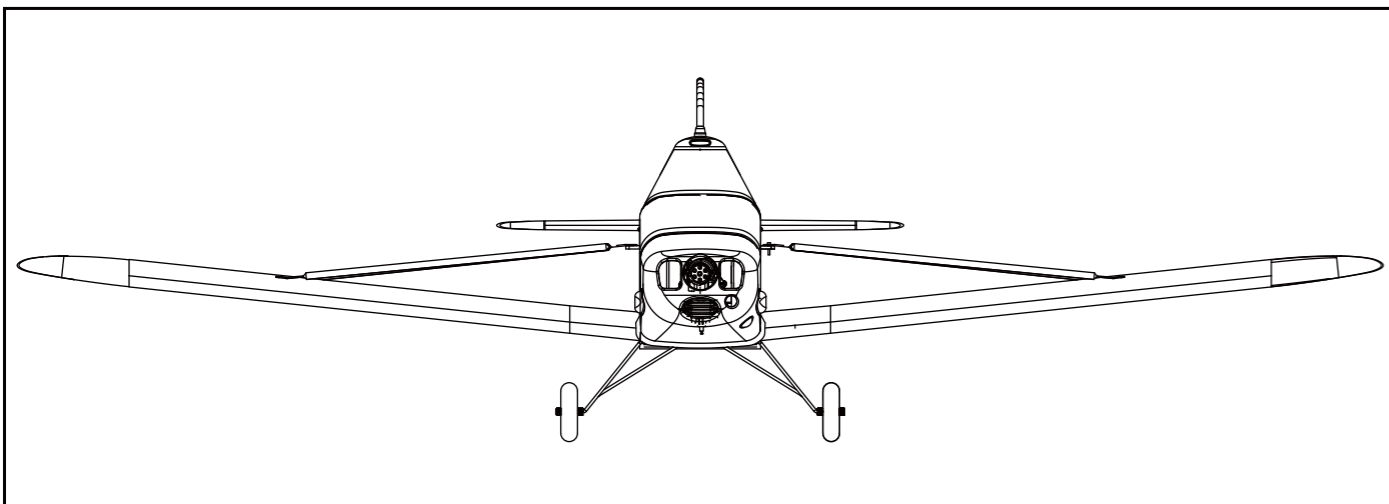
**62** Centre of the Gravity.

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



**Warning!**  
▶ NEVER fly the model without well balancing.

**63** The front view when the install completion.



- 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!

Before start , please carefully read the explanations!

# PA - 25



**Specification:**

- Length :1694 mm(66.7")
- Wing Span :2449 mm(96.4")
- Wing Area :87.1sq.dm  
9.4sq.ft
- Wing Loading :71.2g/sq.dm  
23.3oz/sq.ft
- Flying Weight :6.2kg(13.6lbs)
- Radio :6ch & 8servos
- 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.

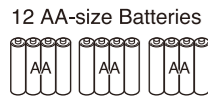
Fly only in open areas and preferably at a dedicated R/C flying site. We suggest having a qualified instructor carefully inspect your airplane before its first flight. Please carefully read and follow all instructions included with this airplane, your radio control system and any other components purchased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

**REQUIRED FOR OPERATION (Purchase separately!)**

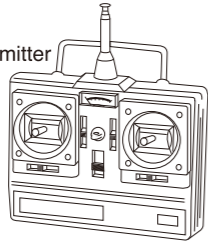
**CAUTION:** For details concerning the equipment listed below (size, maker, etc.), check with your hobby shop.

**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.



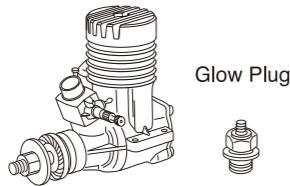
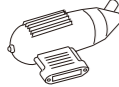
A minimum 6 channel transmitter for airplanes.



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

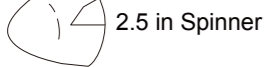
**2** Engine and Muffler  
Model Airplane Engine: 4-cycle .120

Muffler

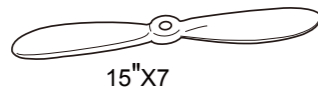


Glow Plug

**3** Propeller Spinner



Purchase a propeller that will match your engine.

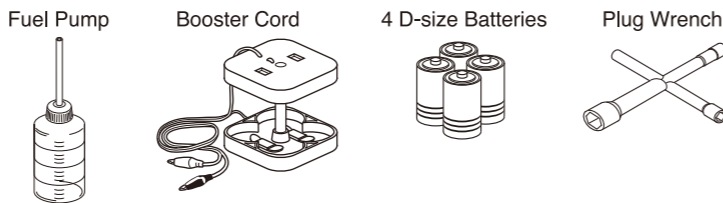
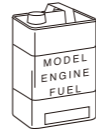


15"X7

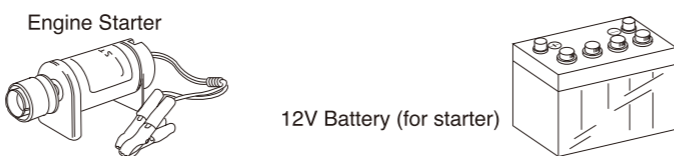


**5** Required for engine starting: Glow engine fuel only.

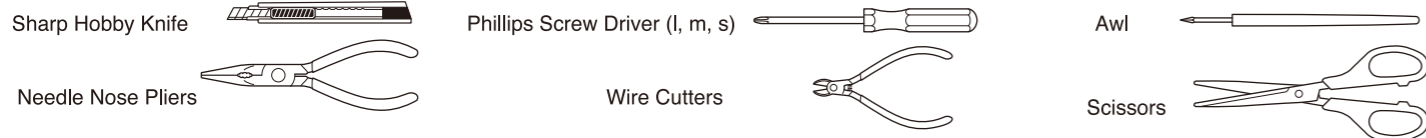
**WARNING:** Normal gasoline cannot be used with glow engines.



**7** Other equipment for enhancing airplane operation & performance



**TOOLS REQUIRED (Purchase separately!)**

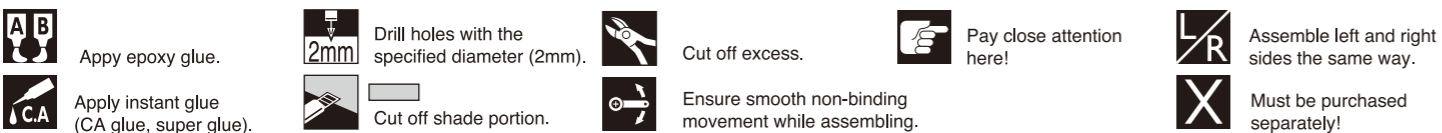


**BEFORE YOU BEGIN**

**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.

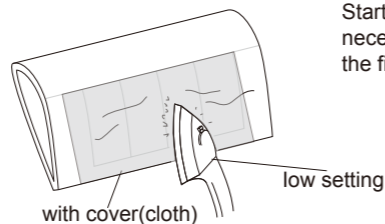
**3** Symbols used throughout this instruction manual, comprise:



Do not overlook this Symbol!  
**Warning!**

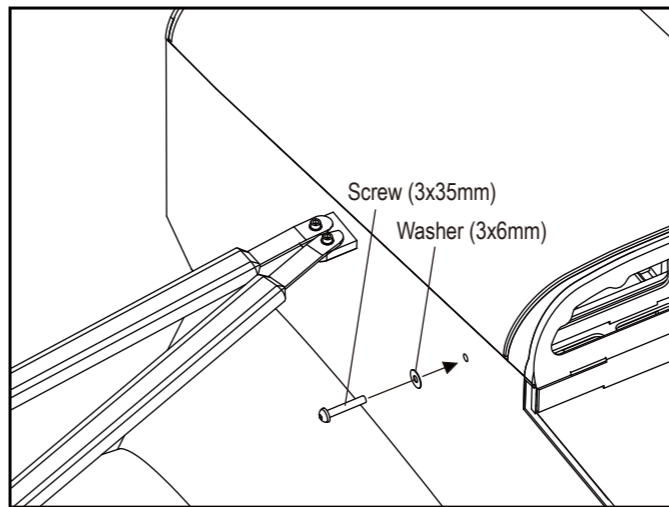
**Warning**  
Remove the covering with proper pressure to cut through only the covering itself. Otherwise, cutting down into the balsa structure may weaken the model part and cause accident.

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

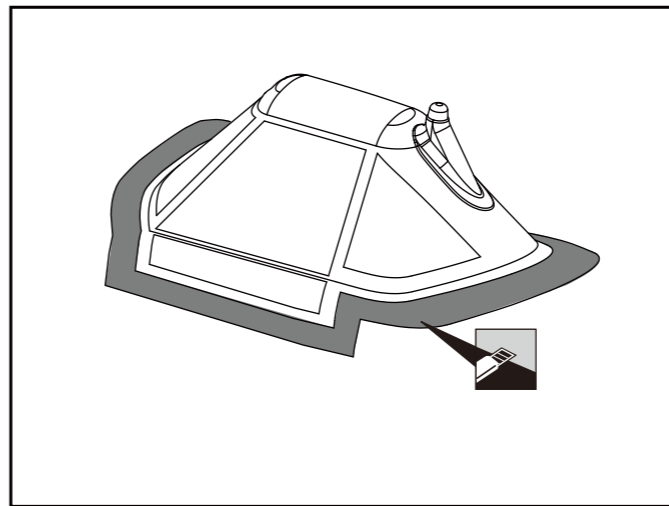


► Pre-cover the covering with clean cloth! Start at low setting. Increase the setting if necessary. If it is too high, you may damage the film.

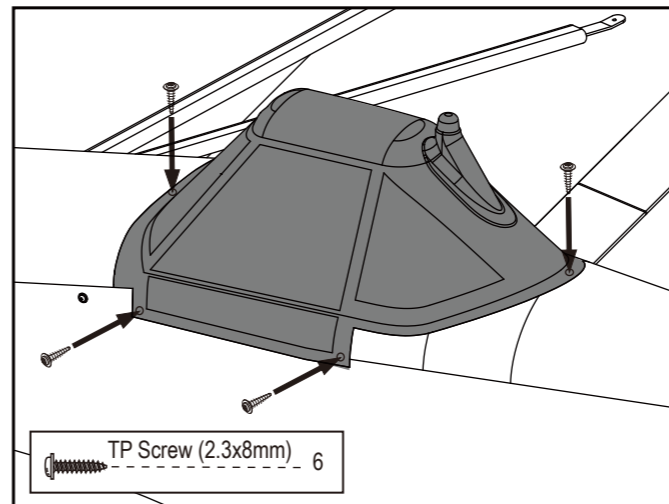
**54** Fix the fuselage top cover to the fuselage with screws as illustration.



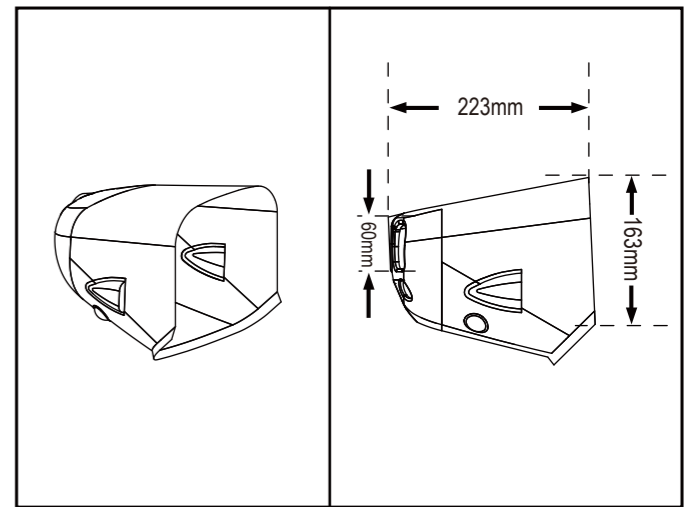
**55** Trim the canopy carefully along the shaded line.



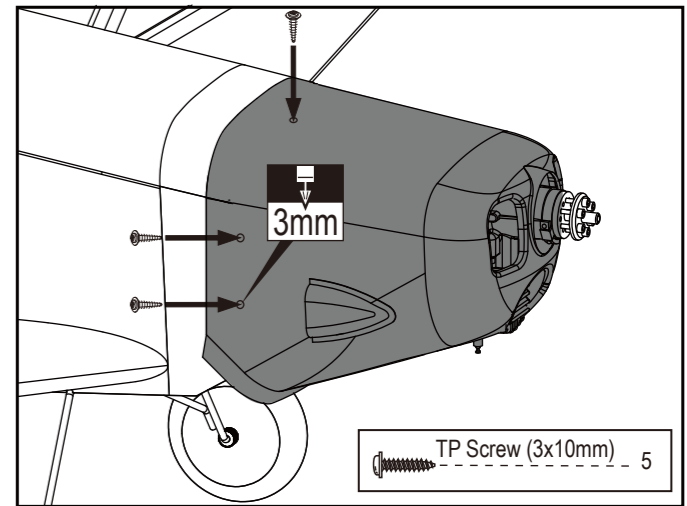
**56** Assemble the canopy to the fuselage with TP screws.



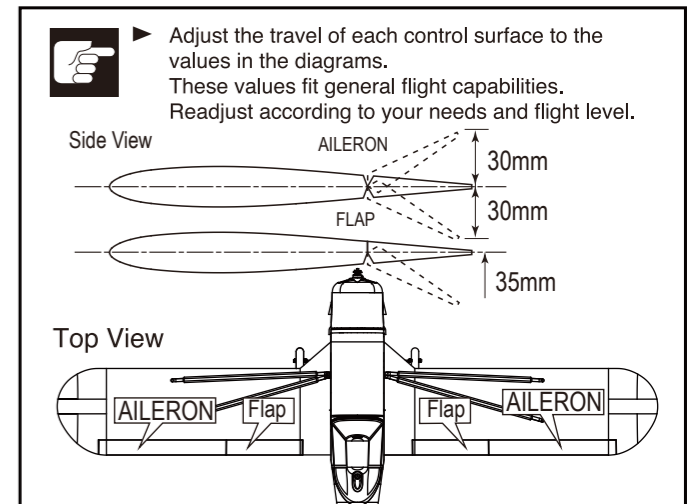
**57** The specification of the cowling.



**58** Drill holes to appropriate position in the cowling and assemble the cowling to the fuselage with TP screws as illustration.



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

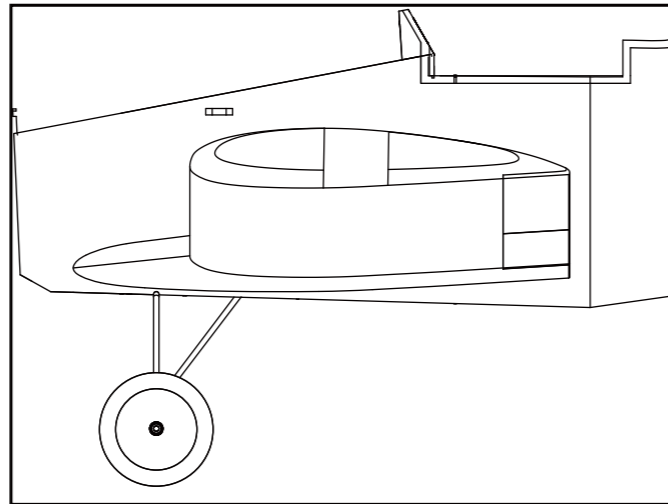




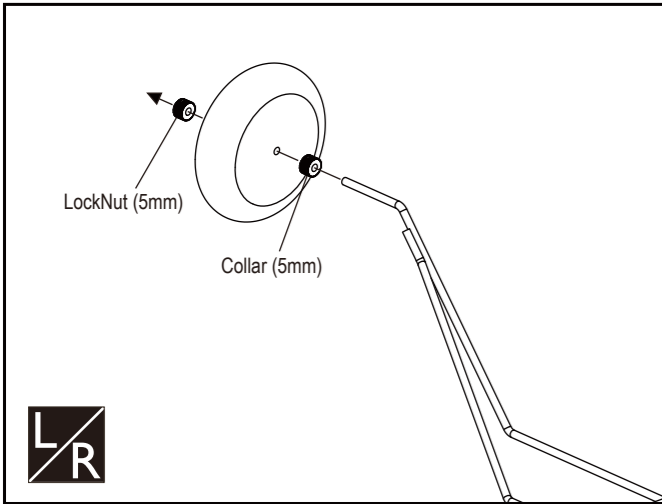
Accessory list for the coming installation steps.

	Collar (5mm)	2
	LockNut (5mm)	2
	Main landing gear	1
	TP Screw (2.3x12mm)	8
	Gear plate	4
	Screw (3x16mm)	8
	Washer (3x6mm)	10
	Screw (3x35mm)	2
	TP Screw (2.3x8mm)	6
	TP Screw (3x10mm)	5
	Wheel (110 mm)	2

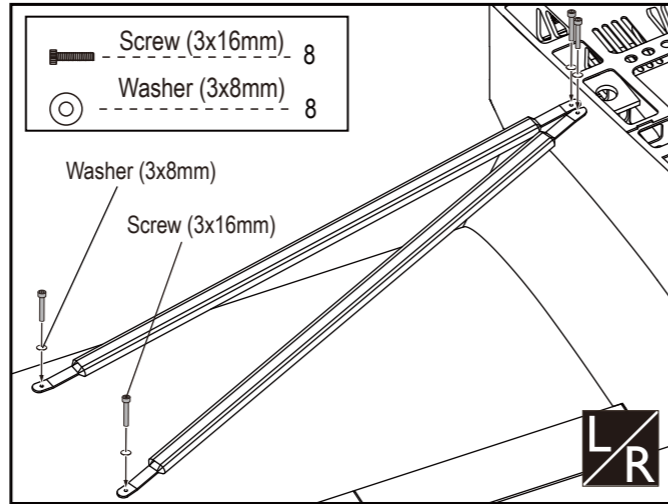
**51** The sketch map when the undercarriage install completion.



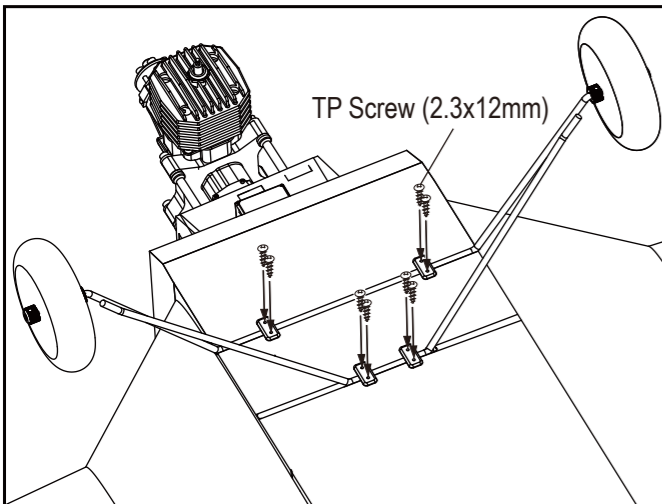
**49** Install the wheels to the undercarriage.



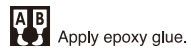
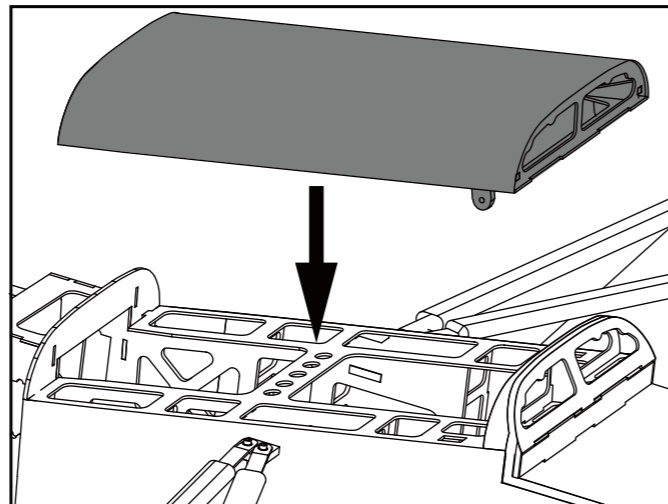
**52** Fix the wing struts to the fuselage and wings via Alu localizers & screws.



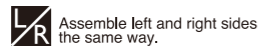
**50** Fix the undercarriage to the fuselage with gear plates and TP screws.



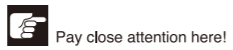
**53** Put the fuselage top cover to appropriate position on the fuselage.



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.

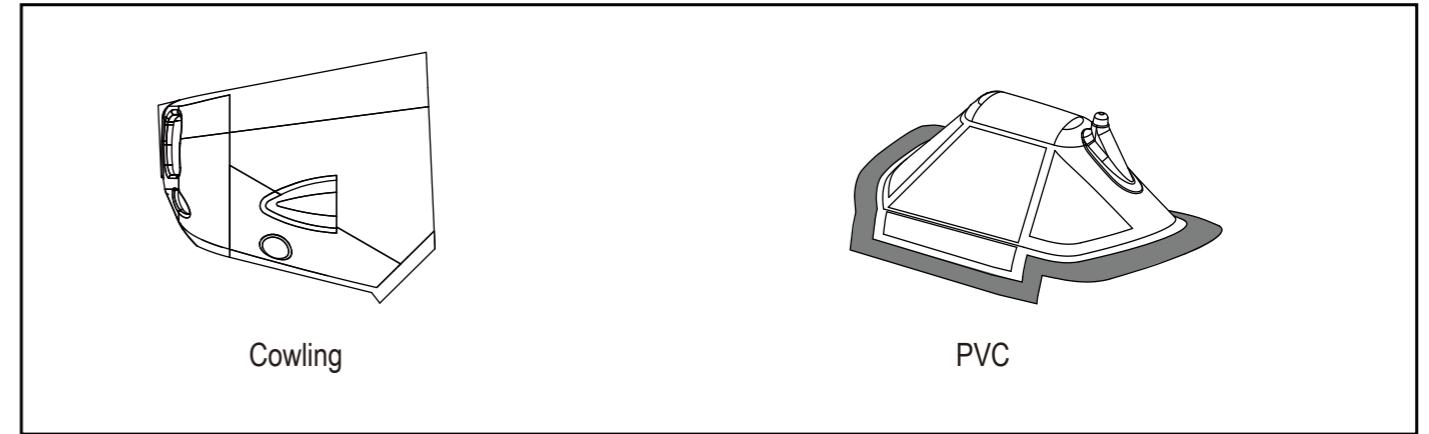
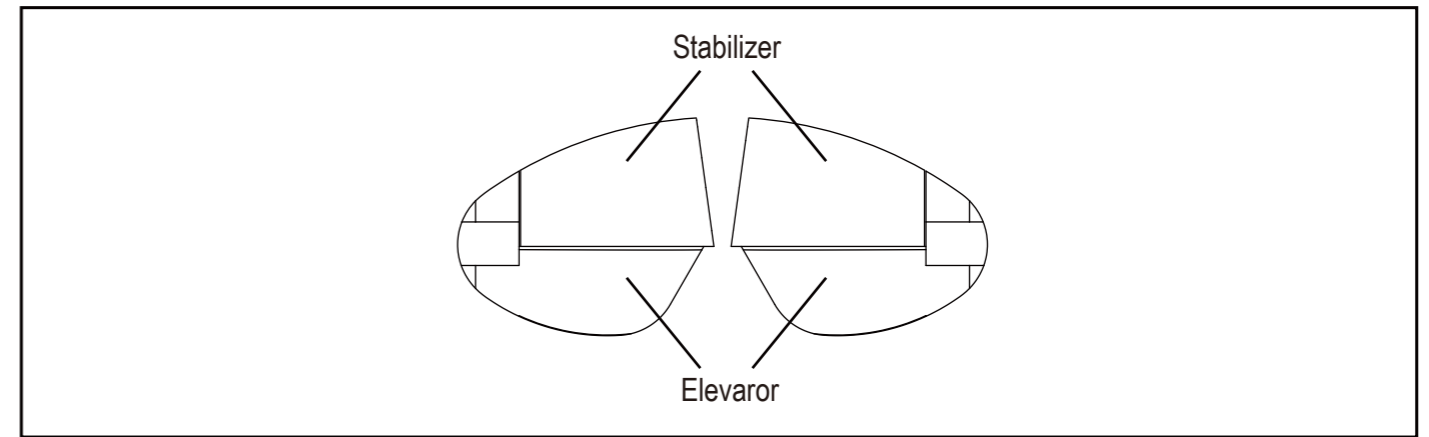
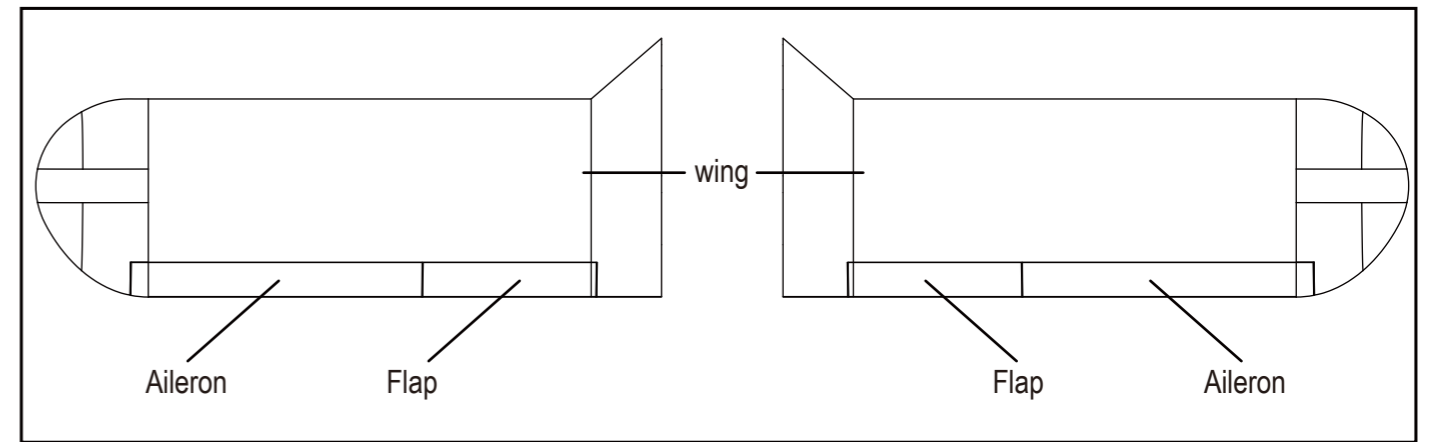
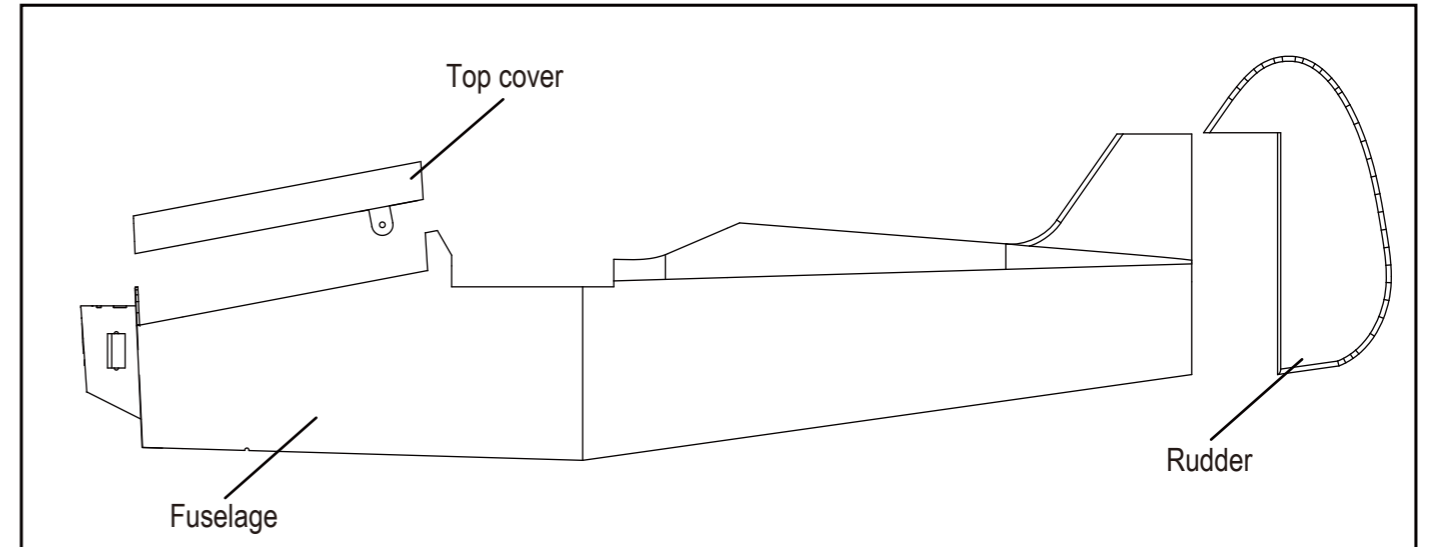


Cut off shaded portion.



Warning!

### PA - 25 packing list



# PA - 25 packing list

## Package1

	TP Screw (2.3x12mm)	35
	TP Screw (2.3x8mm)	6
	TP Screw (3x10mm)	5
	Screw (3x16mm)	10
	Screw (4x20mm)	4
	Screw (4x45mm)	4
	Screw (3x35mm)	2
	Screw (2x10mm)	6
	Screw (3x16mm)	8

## Package2

	Washer(2x6mm)	6
	Washer(3x6mm)	20
	Washer(4x8mm)	12
	Collar (3mm)	7
	Collar (2mm)	2
	Collar (5mm)	2
	Nut(2mm)	6
	Nut(3mm)	4
	Lock Nut(5mm)	2
	Blind Nut(4mm)	4

## Package3

	Rod (2.5x300mm)	4
	Rod (2x300mm)	2
	Rod (2x200mm)	1

## Package4

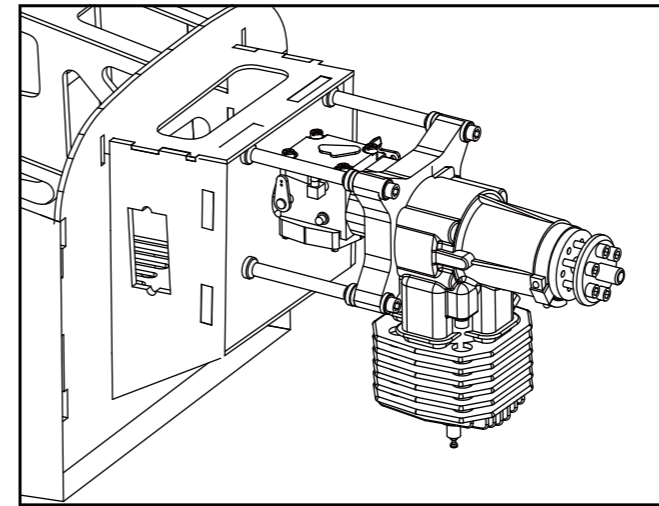
	Taillanding gear (3mm)	1
	Wheel(45mm)	1
	Wheel(110mm)	2
	Steelwire (0.5x3000mm)	2
	Cable tie	2
	Fuel tank (550cc)	1
	Plastic tube (2x400mm)	1

## Package5

	Clevis(3mm)	4
	Clevis(2mm)	6
	Control horn(3mm)	4
	Control horn(2mm)	4
	Copper joiner	4
	Aluminum plate	1
	Aluminum tube (3x6mm)	4
	Linkage Stopper	2
	Gear plate	4
	Main landing gear	1
	Wing joiner(20x550mm)	1
	Stabilizer joiner(12x297m)	1
	Wing struts	2
	Wing struts	2

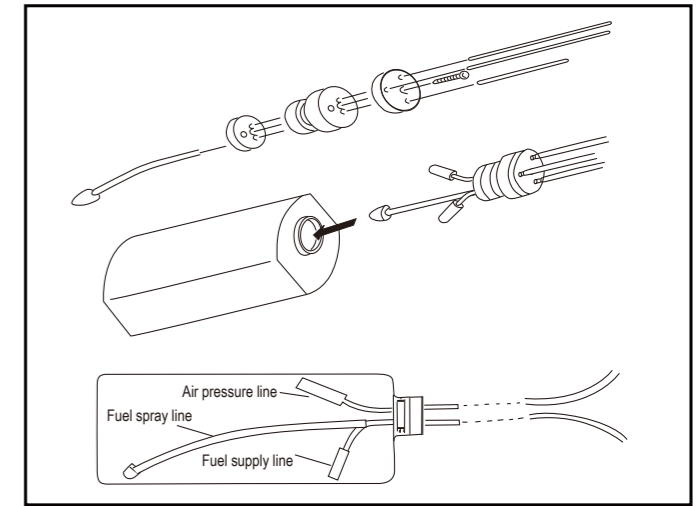
**43**

The sketch map when the engine install completion.



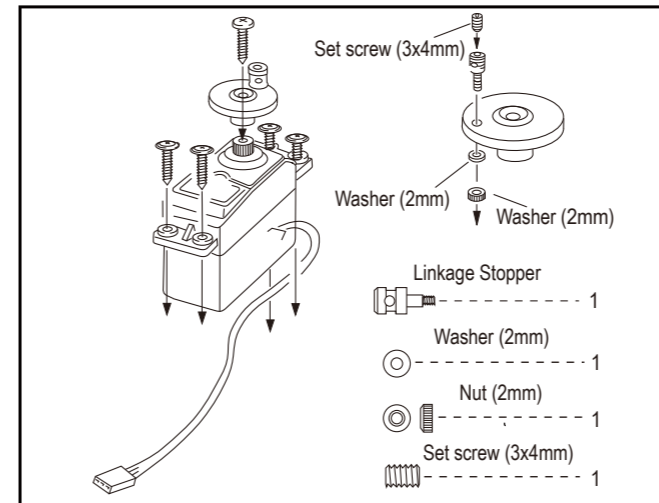
**46**

Assembly of the fuel tank.



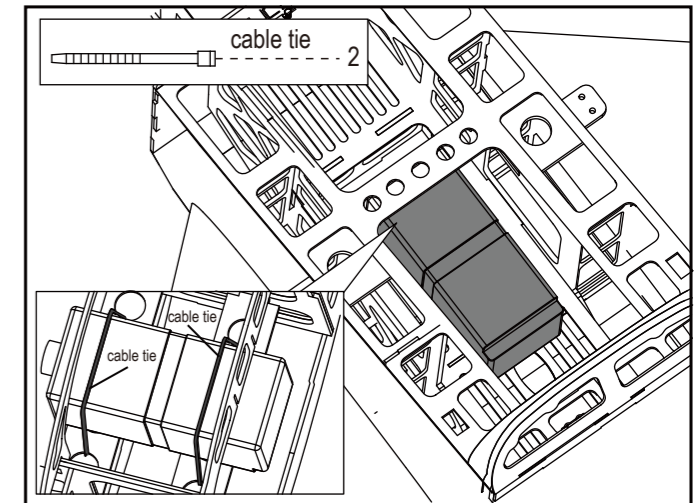
**44**

Install the servo of the throttle.



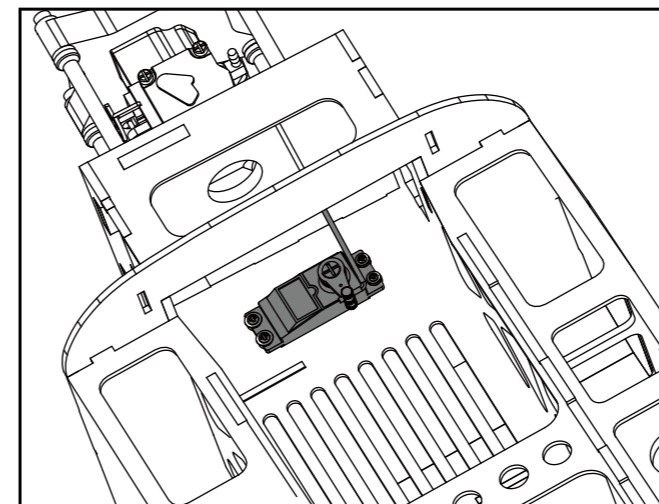
**47**

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



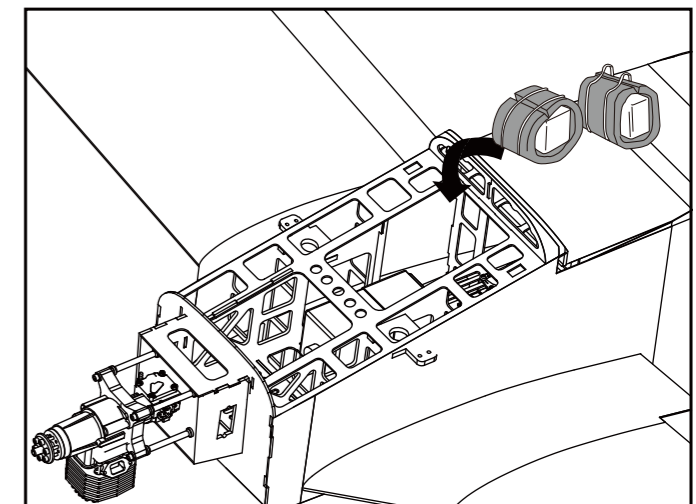
**45**

Assemble the servo in the fuselage.



**48**

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



Apply epoxy glue.

Assemble left and right sides the same way.

Pay close attention here!

Apply instant glue (CA glue, super glue).

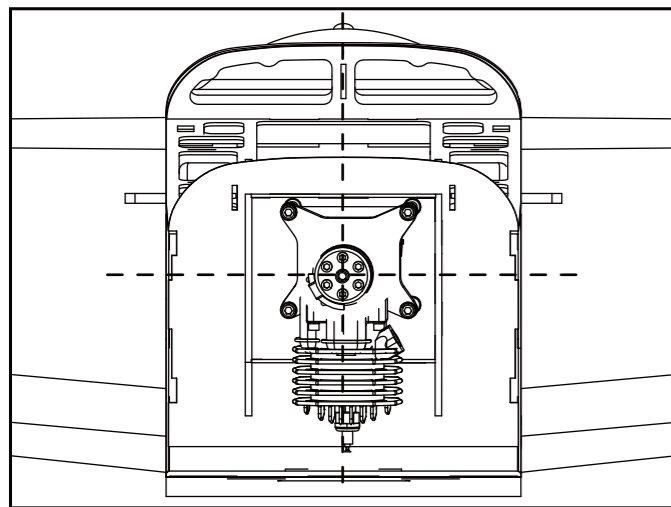
Ensure smooth non-binding movement while assembling.

Cut off shaded portion.

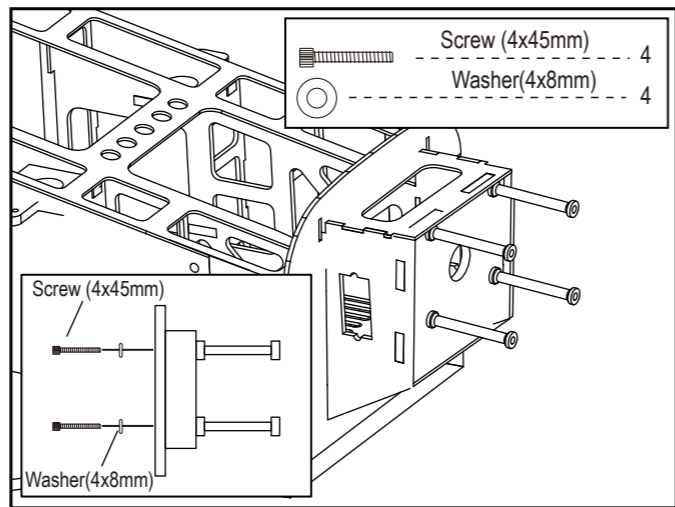
Do not overlook this symbol!



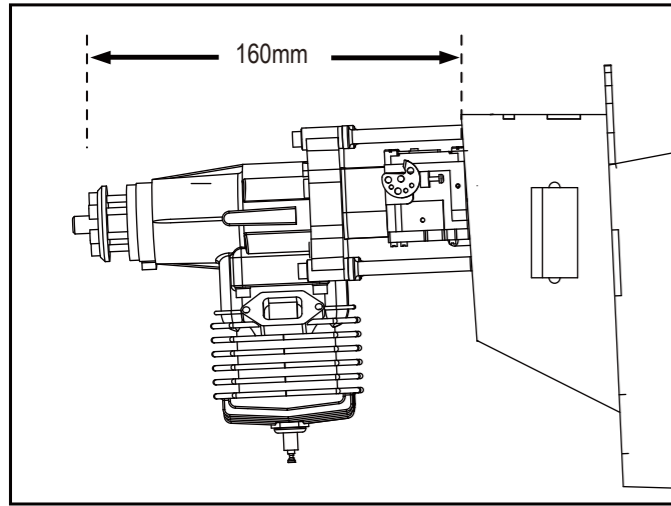
**37** The front view once the engine install completion.



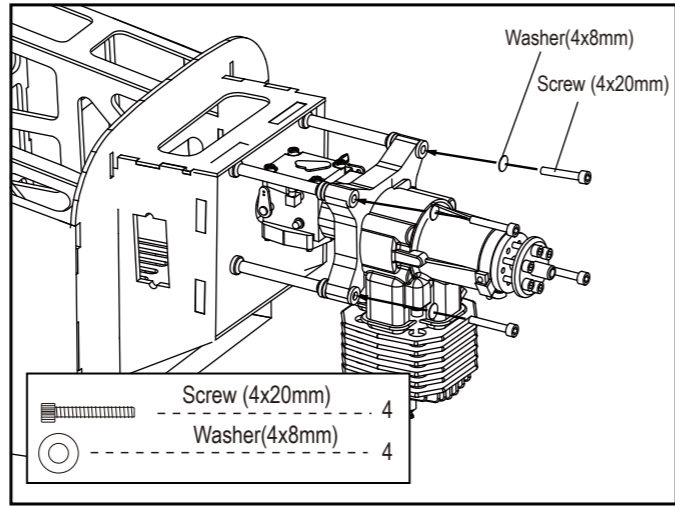
**40** Install the engine mount tubes to the fuselage, lock them from inside of the fuselage.



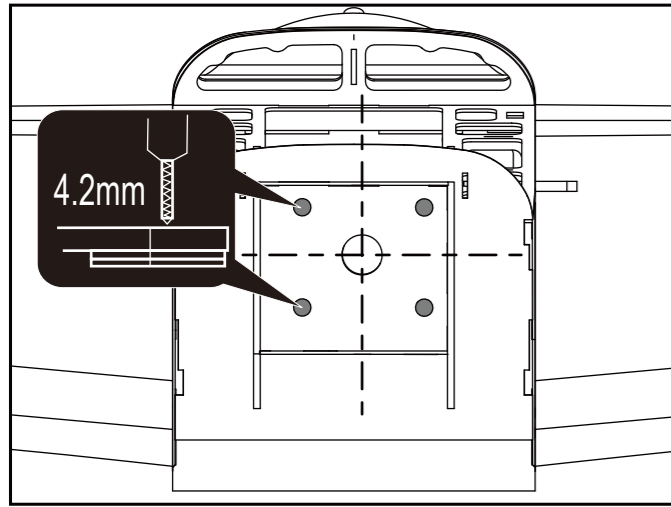
**38** The side view once the engine install completion.



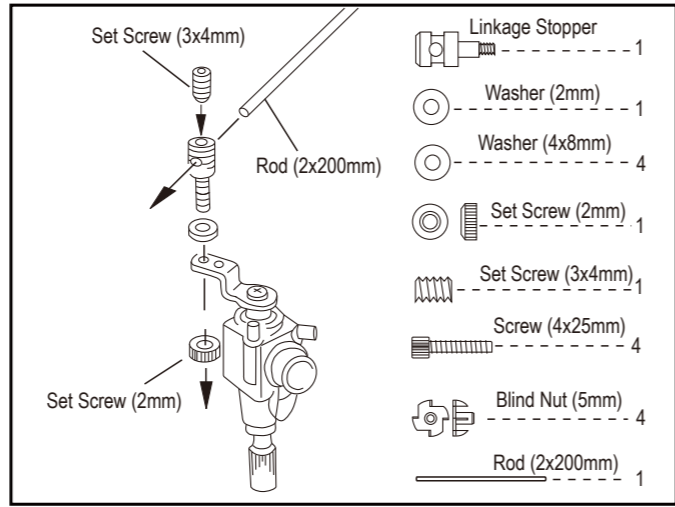
**41** Assemble the engine to the fuselage via the engine mount tubes and screws.



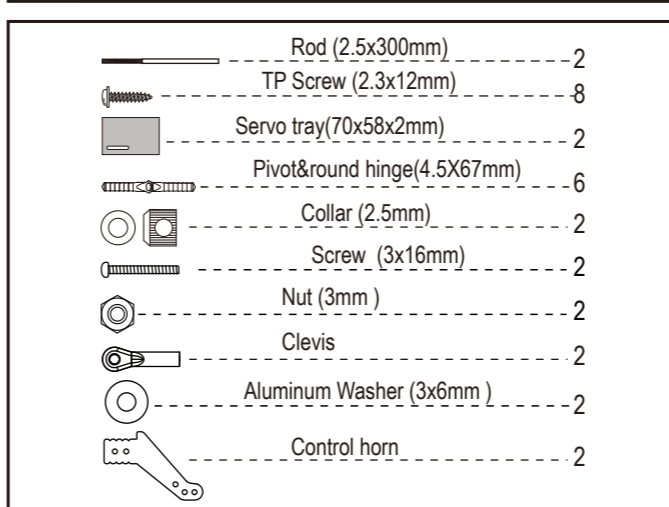
**39** Drill four holes at the diameters as shown for engine mount.



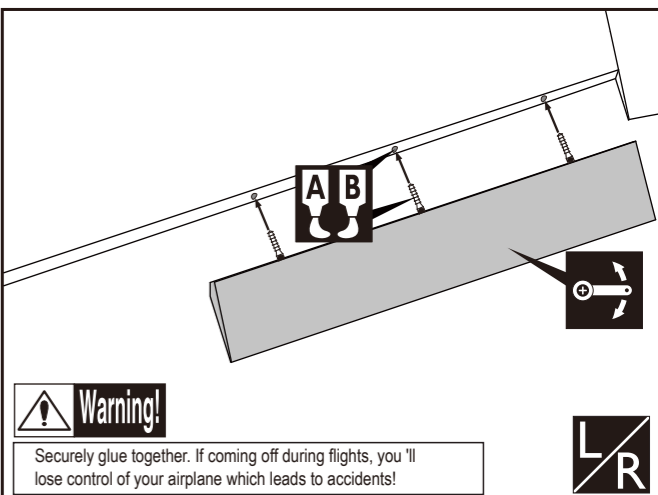
**42** Assemble the throttle linkage.



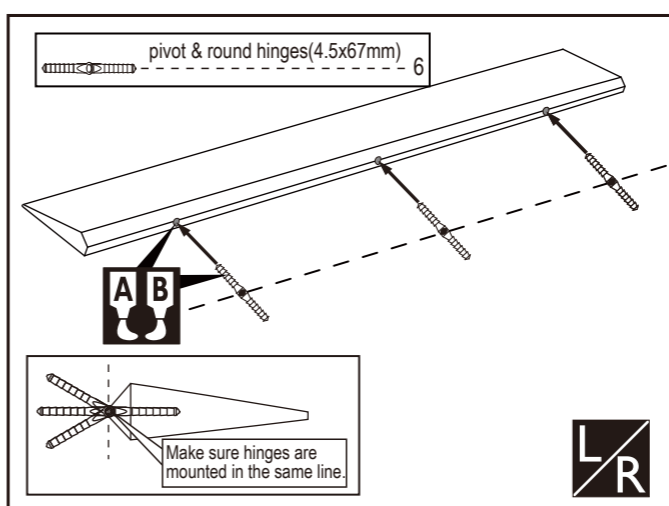
**Warning!** Accessory list for the coming installation steps.



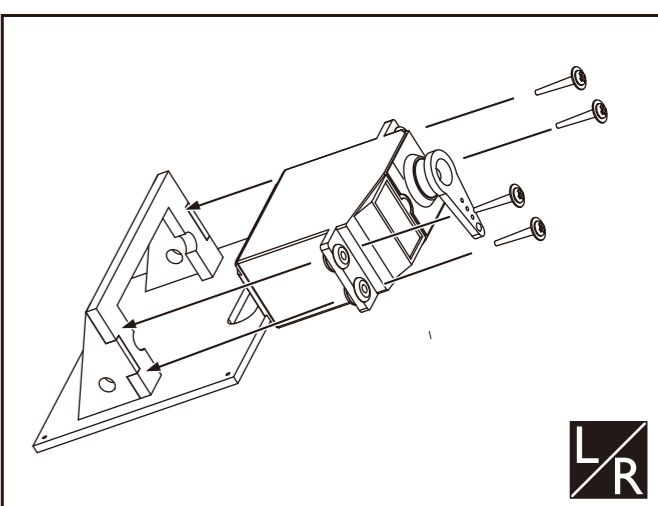
**3** Apply instant type AB glue to appropriate position in the trailing edge and assemble the ailerons to them.



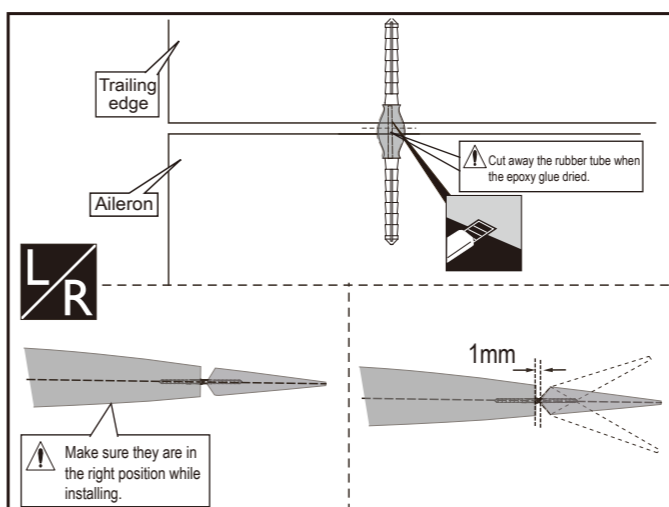
**1** Apply instant type AB glue to appropriate position of the aileron and pivot & round hinges. Insert the pivot & round hinges to the ailerons.



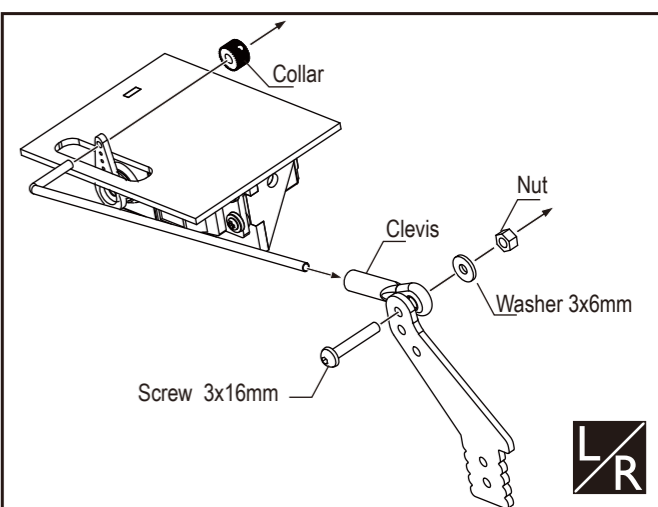
**4** Install the aileron servo to the servo mount as illustration below.



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



**5** Install the control horn and connect the linkage.



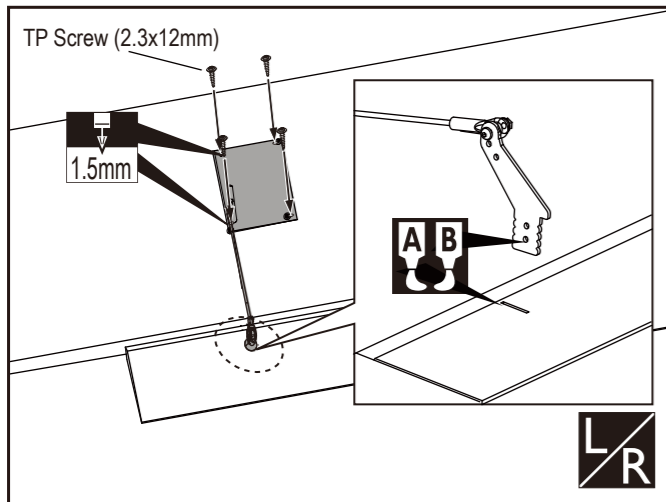
**AB** Apply epoxy glue. **LR** Assemble left and right sides the same way. **Hand** Pay close attention here! **Warning!** Do not overlook this symbol!

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

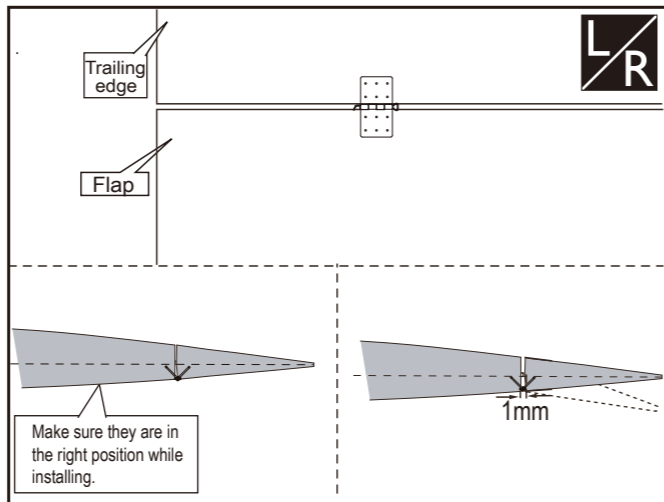
**AB** Apply epoxy glue. **LR** Assemble left and right sides the same way. **Hand** Pay close attention here! **Warning!** Do not overlook this symbol!

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



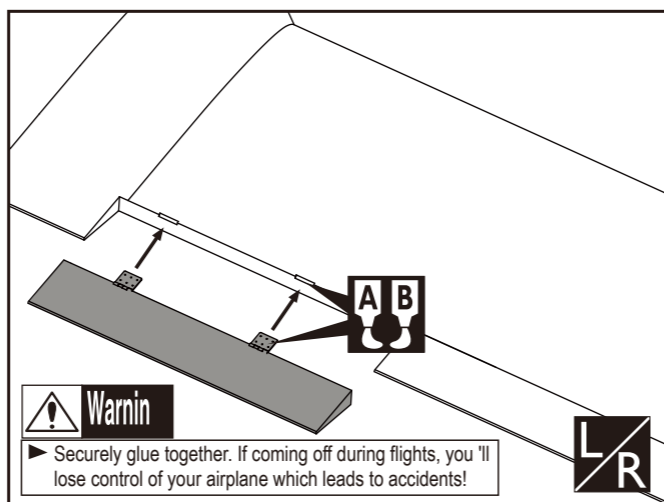
**8** Keep about 1mm width space between trailing edge and flap.



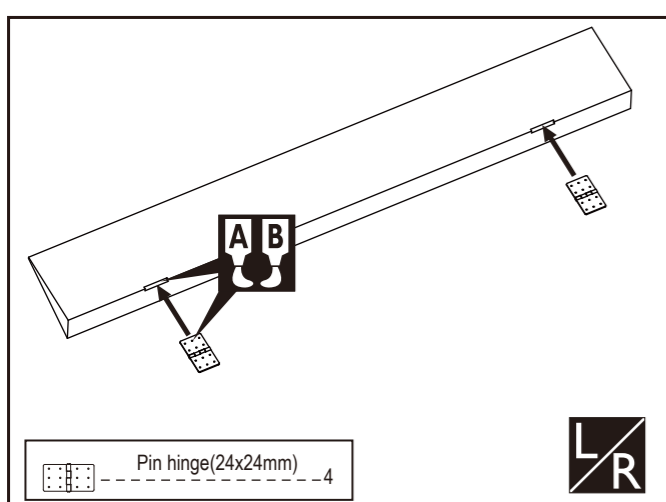
**Warning!** Accessory list for the coming installation steps.

	Rod (2.5x300mm)	2
	TP Screw (2.3x12mm)	8
	Servo tray(70x58x2mm)	2
	Pin hinge(24X24mm)	4
	Collar (2.5mm)	2
	Screw (3x16mm)	2
	Nut (3mm)	2
	Clevis	2
	Aluminum Washer (3x6mm)	2
	Control horn	2

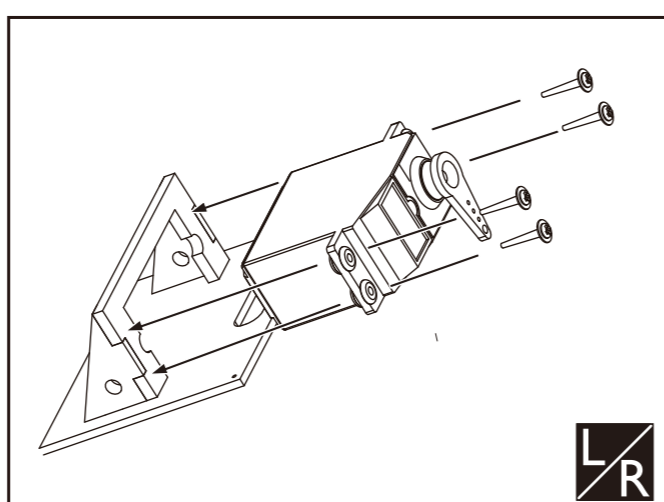
**9** Epoxy the flaps to the wings as illustration.



**7** Epoxy the pin hinges to the flap.



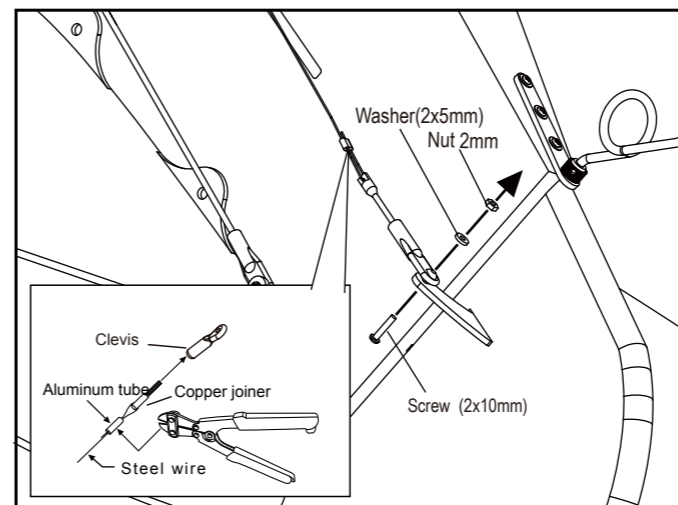
**10** Install the flap servo to the servo mount as illustration below.



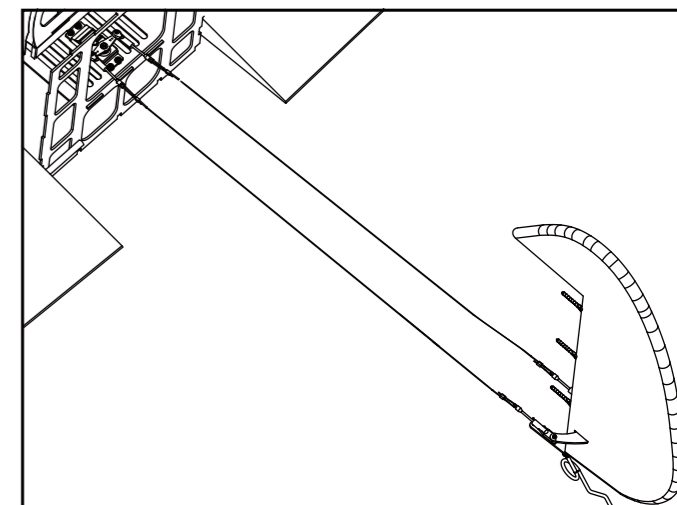
**AB** Apply epoxy glue. **LR** Assemble left and right sides the same way. **Hand icon** Pay close attention here! **Warning!** Do not overlook this symbol!

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

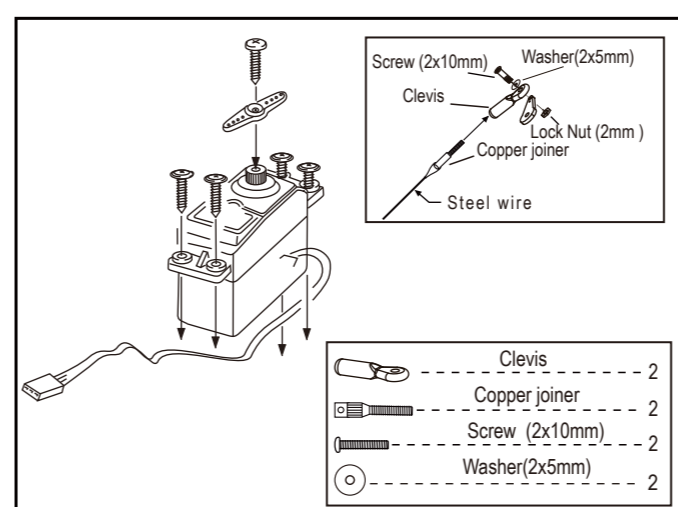
**32** Lock the linkage to the control horn with screws and nuts as below.



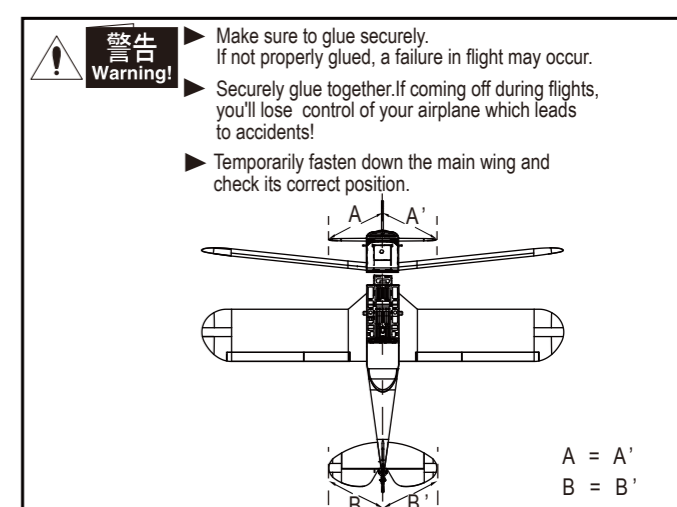
**35** The sketch map of how the steel wires works for the rudder.



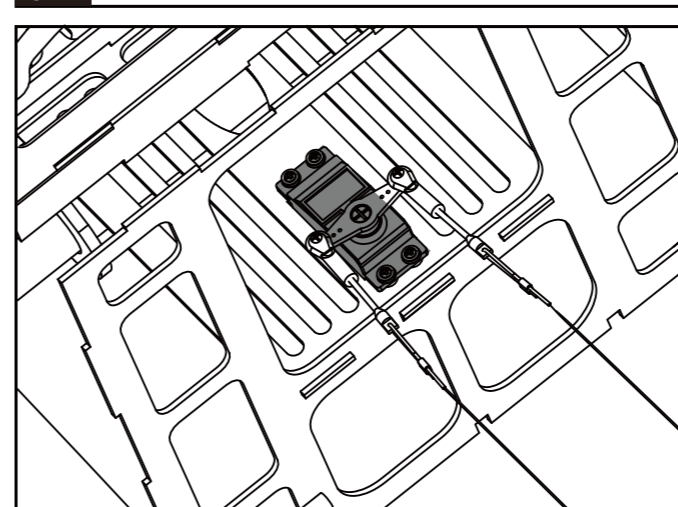
**33** Install the servo of the rudder.



**36** The sketch map should be when the rudder and stabilizer install completion.



**34** Assemble the servo of the rudder in the fuselage and connect the servo and the rudder via steel wires.



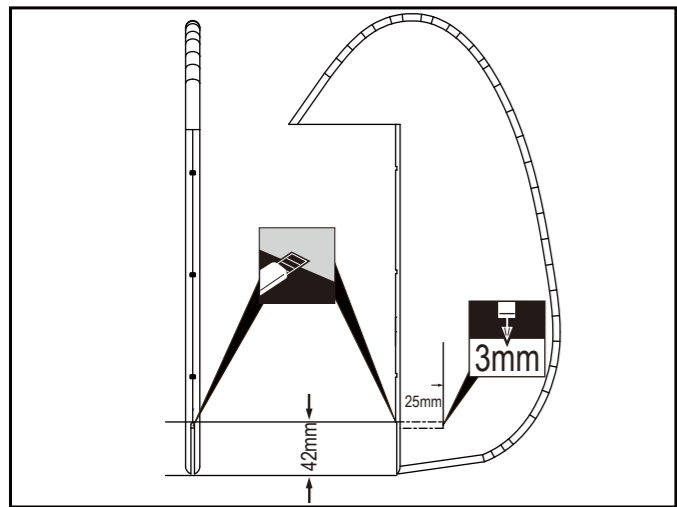
**Warning!** Accessory list for the coming installation steps.

	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

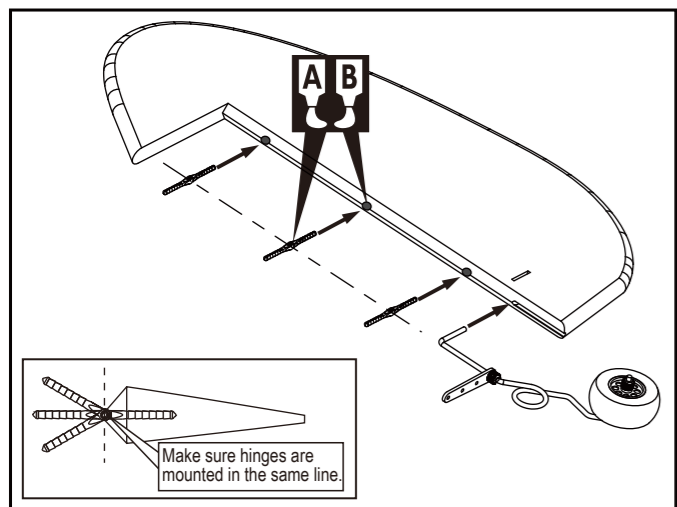
**AB** Apply epoxy glue. **LR** Assemble left and right sides the same way. **Hand icon** Pay close attention here! **Warning!** Do not overlook this symbol!

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

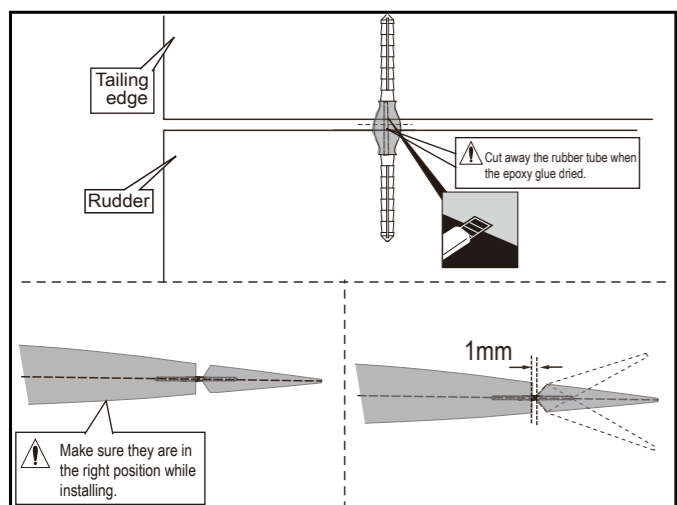
**26** Trim a slot and drill a hole in the rudder for helping assemble the tail landing to it.



**27** Epoxy the aileron and pivot & round hinges and the landing gear to the rudder as illustration.



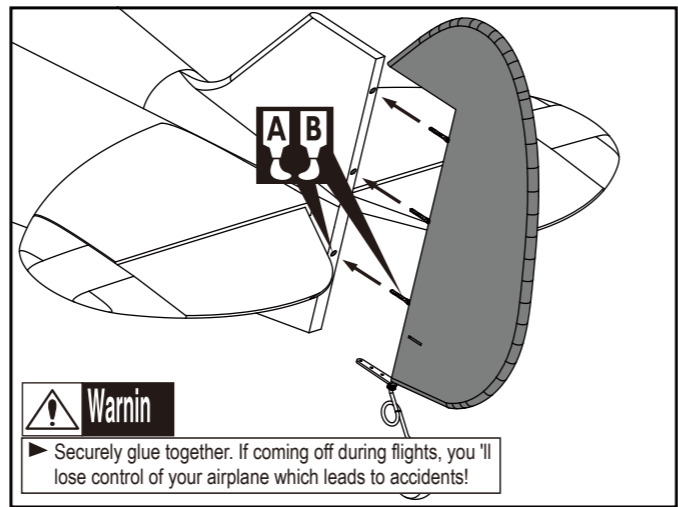
**28** Keep some space about 1mm width between the rudder and tail edge.



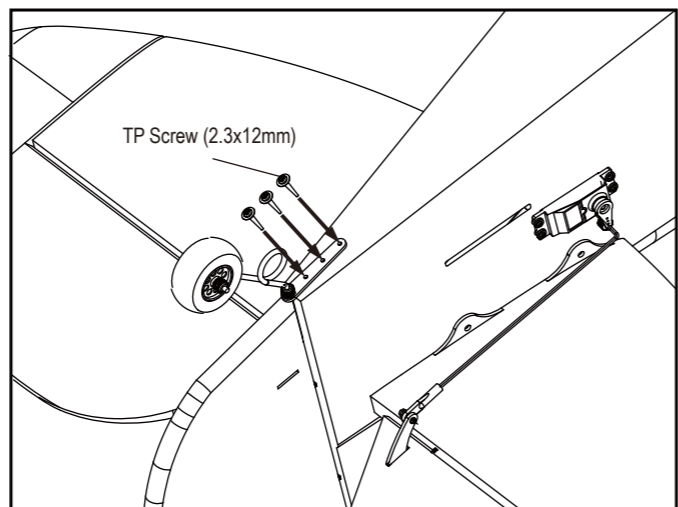
**AB** Apply epoxy glue. **LR** Assemble left and right sides the same way. **Hand icon** Pay close attention here! **Warning icon** Do not overlook this symbol!

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

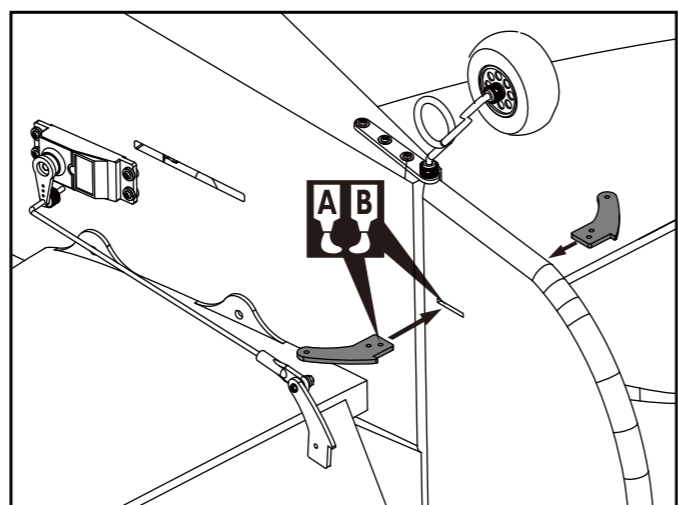
**29** Epoxy the rudder to the vertical fin..



**30** Assemble the tail landing gear to tail fuselage as below.



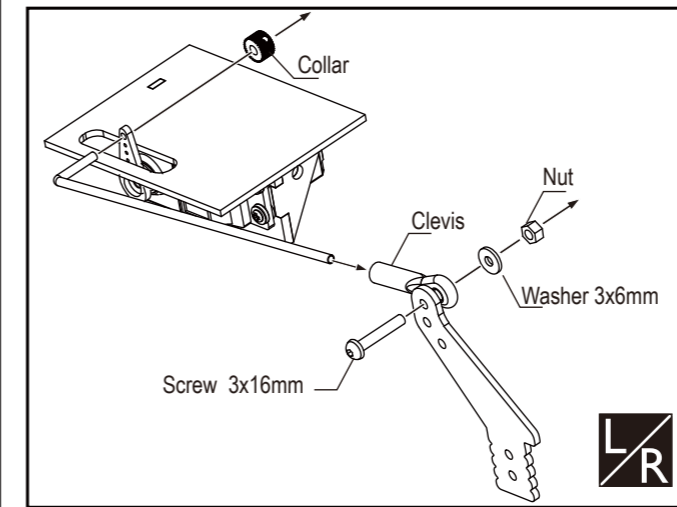
**31** Epoxy the control horns to the slots in the rudder.



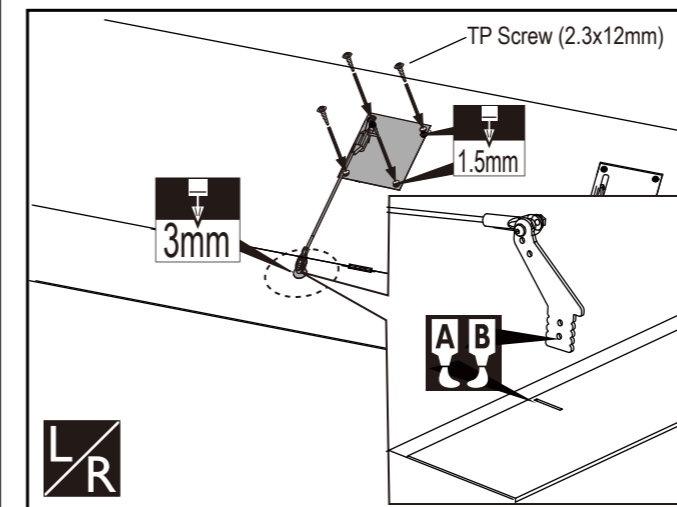
**AB** Apply epoxy glue. **LR** Assemble left and right sides the same way. **Hand icon** Pay close attention here! **Warning icon** Do not overlook this symbol!

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

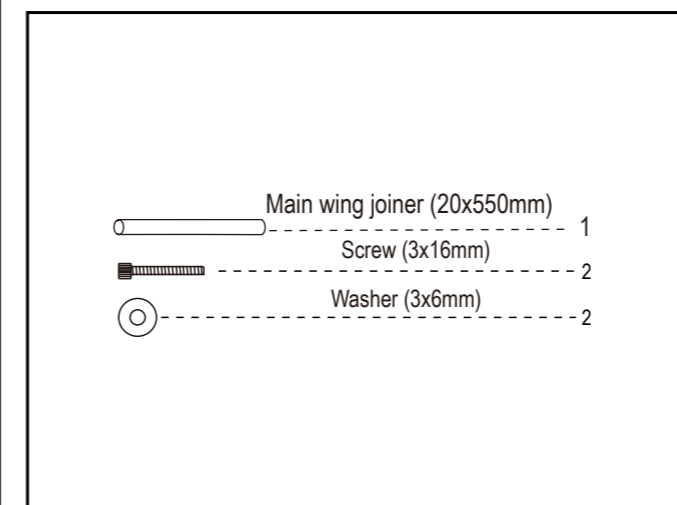
**11** Install the control horn and connect the linkage.



**12** Secure the flap servo, install the control horn and connect the linkage.



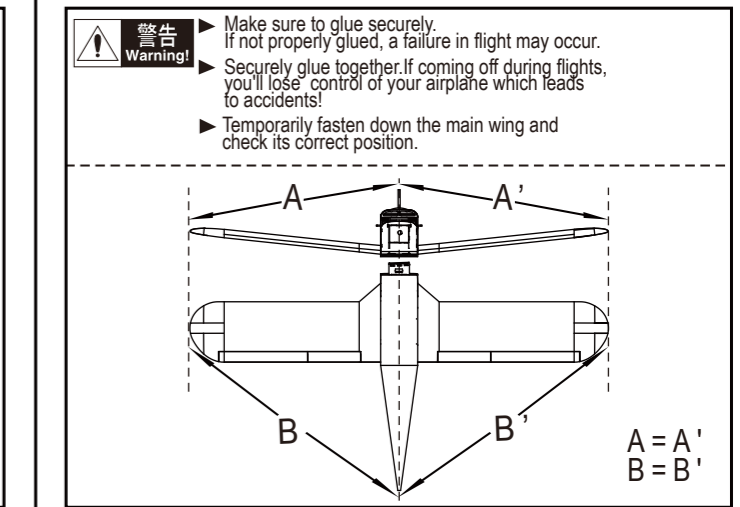
**Warning icon** Accessory list for the coming installation steps.



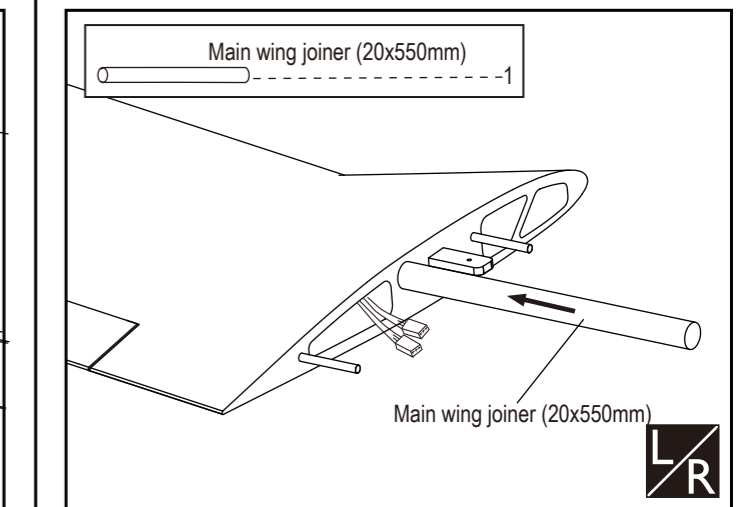
**AB** Apply epoxy glue. **LR** Assemble left and right sides the same way. **Hand icon** Pay close attention here! **Warning icon** Do not overlook this symbol!

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

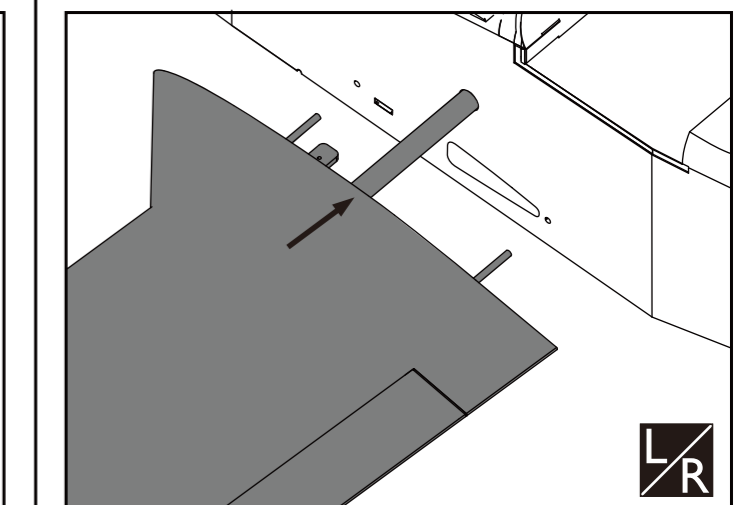
**13** The standard sketch map when the kit install completion.



**14** Insert the main wing joiner to the wing.



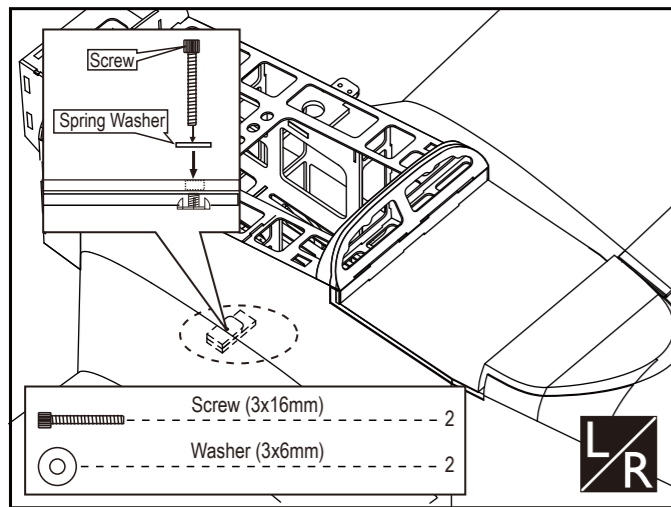
**15** Assemble the wings to the fuselage through the main wing joiner carefully.



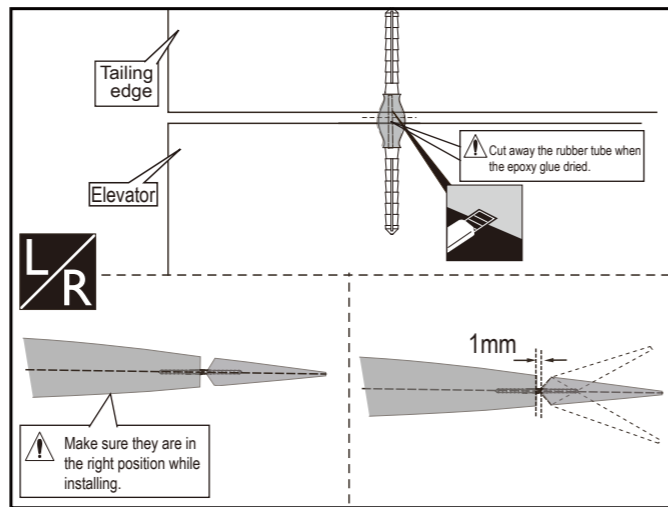
**AB** Apply epoxy glue. **LR** Assemble left and right sides the same way. **Hand icon** Pay close attention here! **Warning icon** Do not overlook this symbol!

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

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



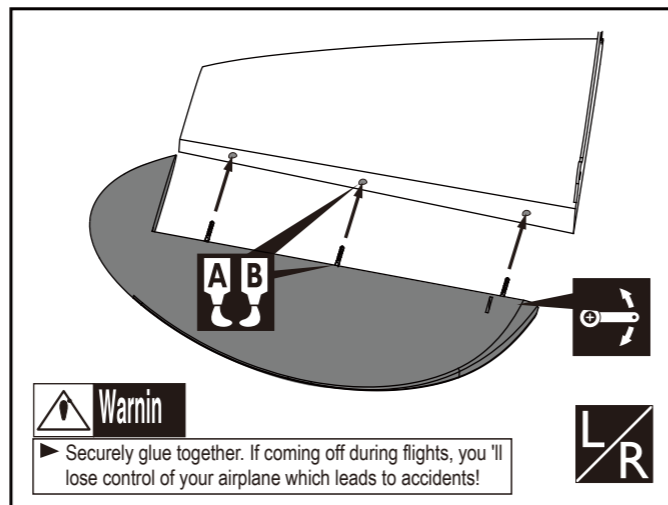
**18** Keep about 1mm width space between elevator and trailing edge.



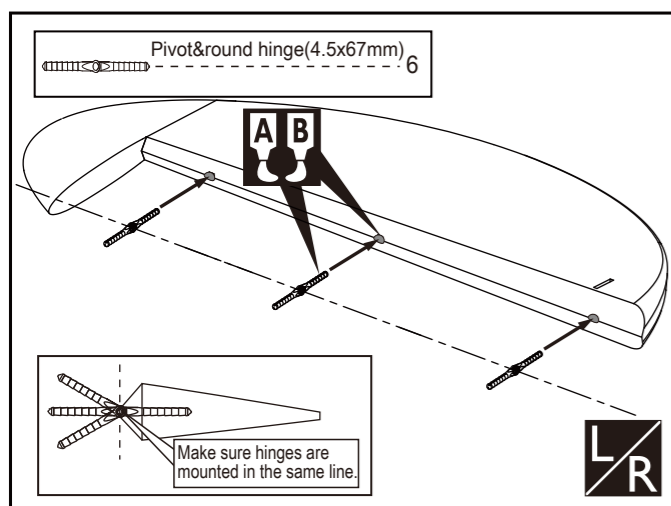
**Accessory list for the coming installation steps.**

	Stabilizer joiner (12x297mm)	1
	Pivot&round_hinge(4.5X67mm)	6
	Screw (3x16mm)	4
	Rod (2x300mm)	2
	TP Screw (2.3x12mm)	8
	Collar (2mm)	2
	Nut (2mm)	2
	Screw (2x10mm)	2
	Washer(2x6mm)	2
	Washer(3x6mm)	4
	Clevis	2
	Control horn	2

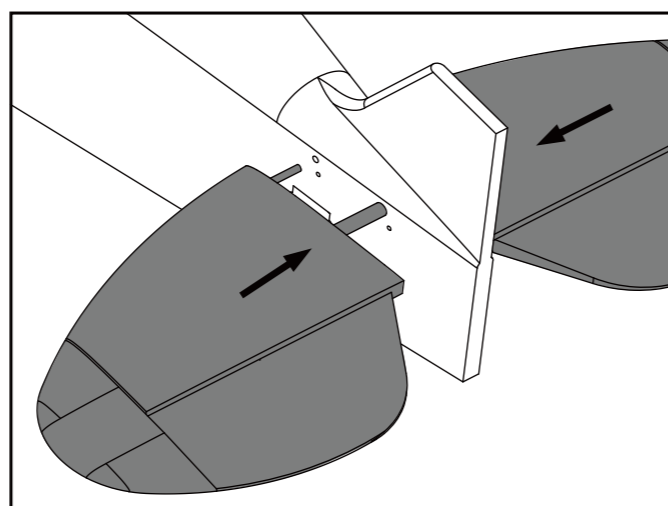
**19** Epoxy the elevator to the stabilizer.



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



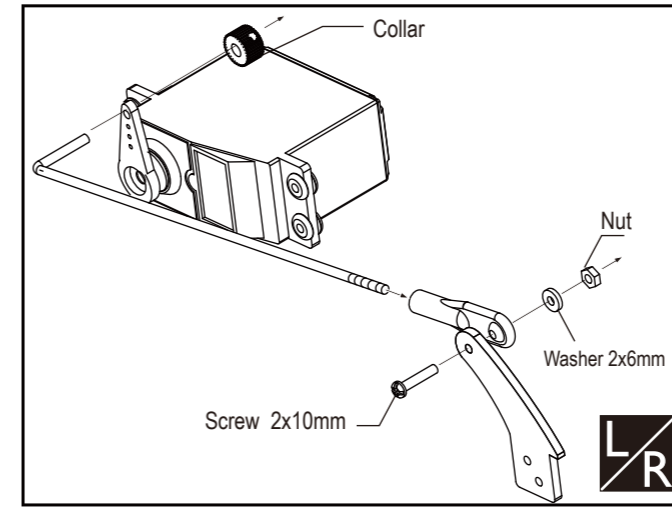
**20** Assemble the stabilizer to the fuselage through the stabilizer joiner.



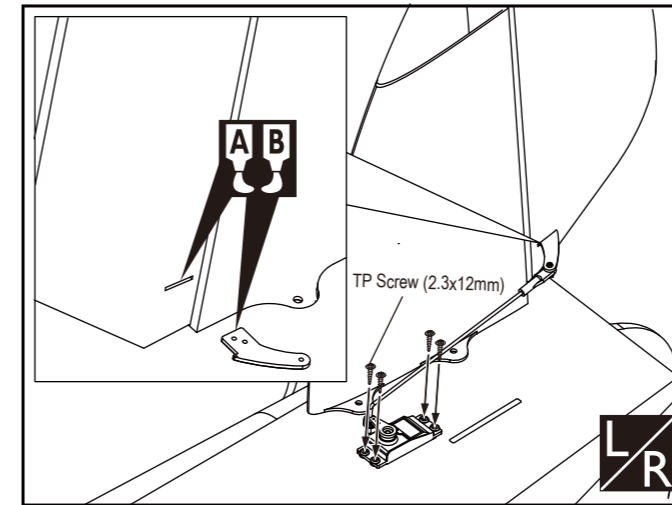
**AB** Apply epoxy glue. **LR** Assemble left and right sides the same way. **Hand icon** Pay close attention here! **Warning icon** Do not overlook this symbol!

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

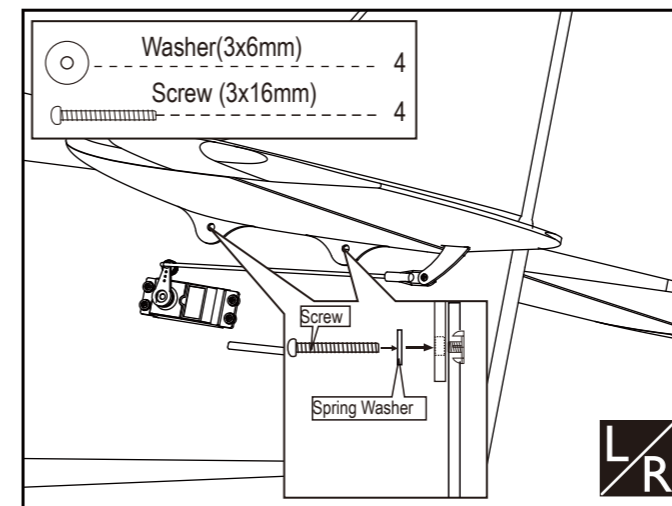
**21** Install the control horn and connect the linkage.



**22** Epoxy the control horn to the slots in the elevator, assemble the elevator servo to the fuselage as illustration.



**23** Fix the stabilizers to the tail fuselage via screws.



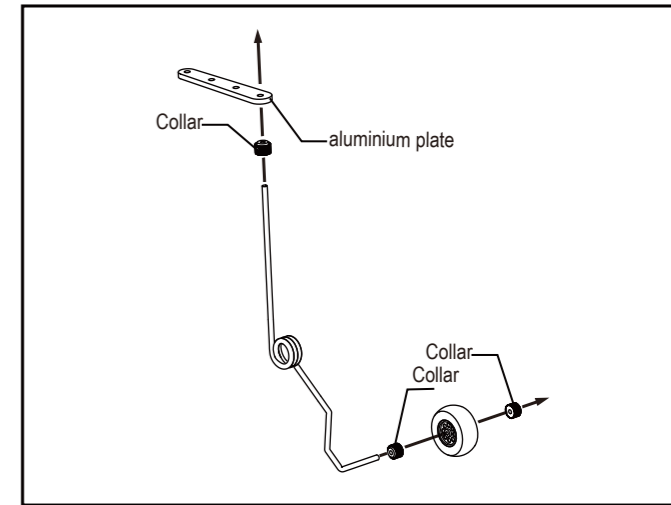
**AB** Apply epoxy glue. **LR** Assemble left and right sides the same way. **Hand icon** Pay close attention here! **Warning icon** Do not overlook this symbol!

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

**Accessory list for the coming installation steps.**

	Screw (2x10mm)	4		Collar (3mm)	3
	Washer(2x6mm)	4		Nut (2mm)	4
	Aluminium plate	1		Aluminum tube	4
	Clevis	4		Control horn	2
	Tail wheel (45mm)	1		TP Screw (2.3x12mm)	3
	Steel wire (0.5x3000mm)	2		Tail landing gear 3mm	1
	Pivot&round_hinge(4.5X67mm)	3		Copper joiner	4

**24** Install the tail landing gear.



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

