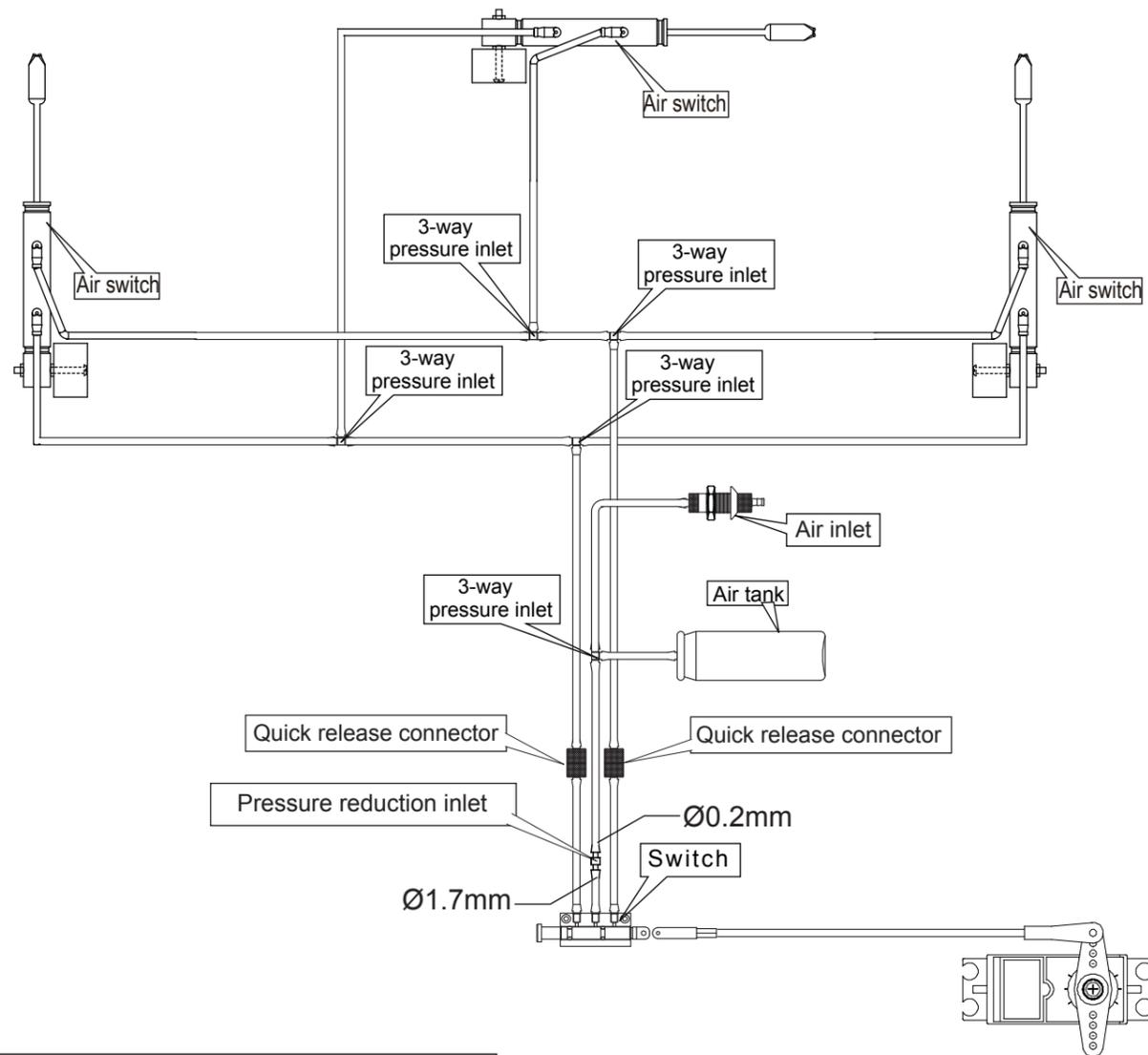
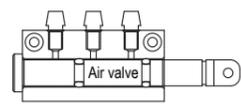


Three wheel retract system

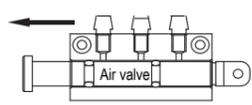
Warning! Make sure to assemble retracts as instructed below.
(Option accessories)



Warning! Please insure the sealing of the air switch system before flight.
Please notice the inner diameter of each side the pressure reduction inlet.



The status when the gear door closed.



Pull out length of 8mm to make gear door open.

- | | |
|----------------------|---------------------------|
| TP Screw(2.6x14mm) 2 | Switch 1 |
| Retainer 1 | Air line (3000mm) 1 |
| Clevis 1 | 3-way pressure inlet 5 |
| Rod (2X300mm) 1 | Air tank 1 |
| Air switch 3 | Air inlet 1 |
| | Quick release connector 2 |

Before start ,please carefully read the explanations!

F7F Tigercat



Specification:
 Length :1840 mm(72.4")
 Wing Span :2105 mm(82.9")
 Wing Area :60.98 sq. dm
 6.56 sq. ft
 Wing Loading :172.2 g/sq. dm
 56.5 oz/sq. ft
 Flying Weight :10.5 kg(23.2 lbs)
 Radio :6ch&13 servos
 Engine :70 2-cycle
 91 4-cycle

INSTRUCTION MANUAL



SAFETY PRECAUTIONS

This R/C airplane is not a toy!
(The people under 18 years old is forbidden from flying this model)

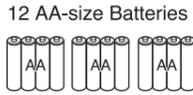
First-time builders should seek advice from people having building experience.If misused or abused,it can cause serious bodily injury and damage to property.
Fly only in open areas and preferably at a dedicated R/C flying site.
We suggest having a qualified instructor carefully inspect your airplane 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 13 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.

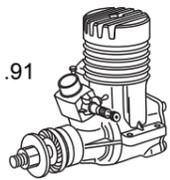


For handling the radio properly, refer to its instruction manual.

2 Engine and Muffler

Model Airplane Engine 4-cycle .91

Muffler



Glow Plug



3 Propeller Spinner

Purchase a propeller that will match your engine.



Spinner nut



14"X6

4 Sponge Sheet



Silicone Tube



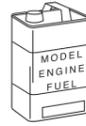
Fuel Filter



5 Required for engine starting:

WARNING: Normal gasoline cannot be used with glow engines.

Glow engine fuel only.



Fuel Pump



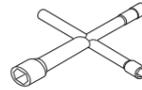
Booster Cord



4 D-size Batteries



Plug Wrench

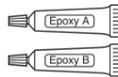


6 Glue

Instant Glue

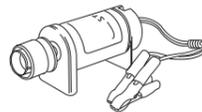


Epoxy Glue

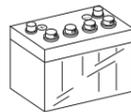


7 Other equipment for enhancing airplane operation & performance

Engine Starter



12V Battery (for starter)



9 Optional parts: rubber wheel with metal hub, oleo struts and retracts system.

TOOLS REQUIRED (Purchase separately!)

Sharp Hobby Knife



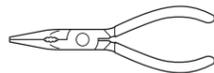
Phillips Screw Driver (l, m, s)



Awl



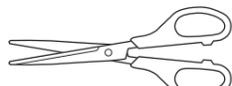
Needle Nose Pliers



Wire Cutters



Scissors



BEFORE YOU BEGIN

1 Read through the manual before you begin, so you will have an overall idea of what to do.

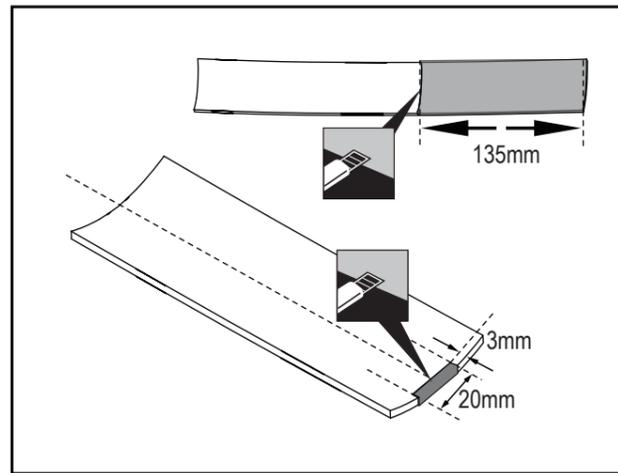
2 Check all parts. If you find any defective or missing parts, contact your local dealer.

3 Symbols used throughout this instruction manual, comprise:

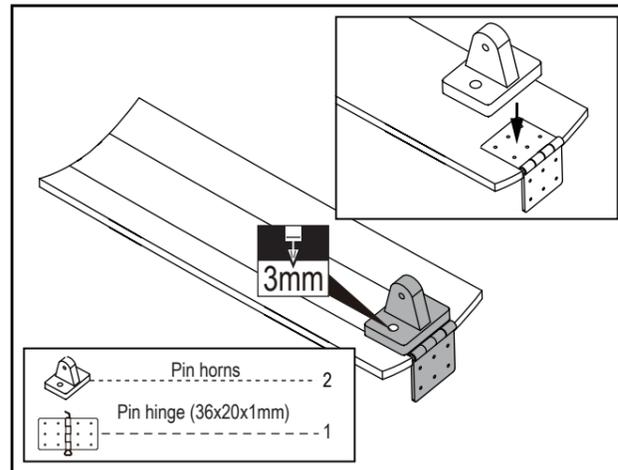
- Apply epoxy glue.
- Apply instant glue (CA glue, super glue).
- Drill holes with the specified diameter (2mm).
- Cut off shade portion.
- Cut off excess.
- Pay close attention here!
- Assemble left and right sides the same way.
- Must be purchased separately!

Do not overlook this Symbol!
 Warning!

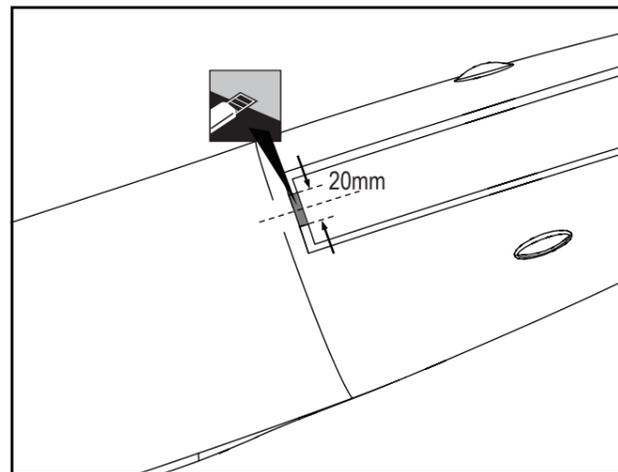
11 Trim the shaded portion carefully.



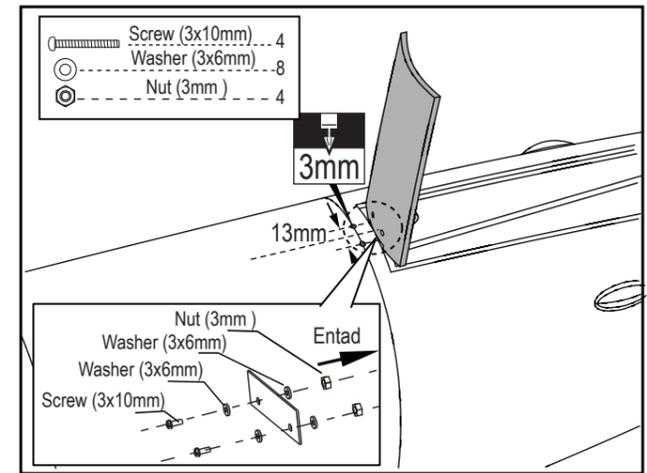
12 Put the pin hinge to inner nose door, press it by the horn, drill holes in them and assemble them with screw.



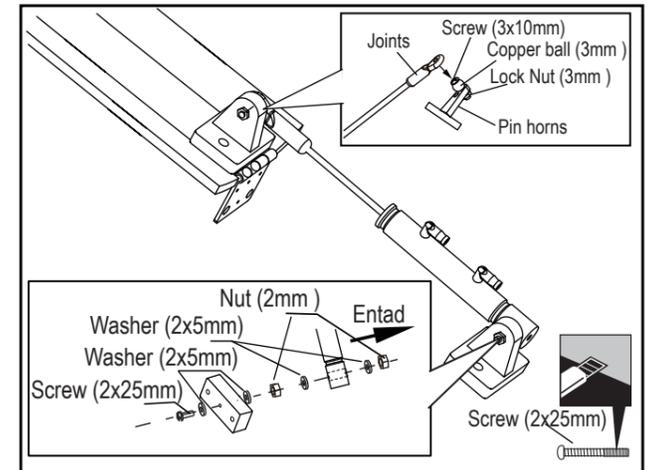
13 Trim the shaded portion carefully.



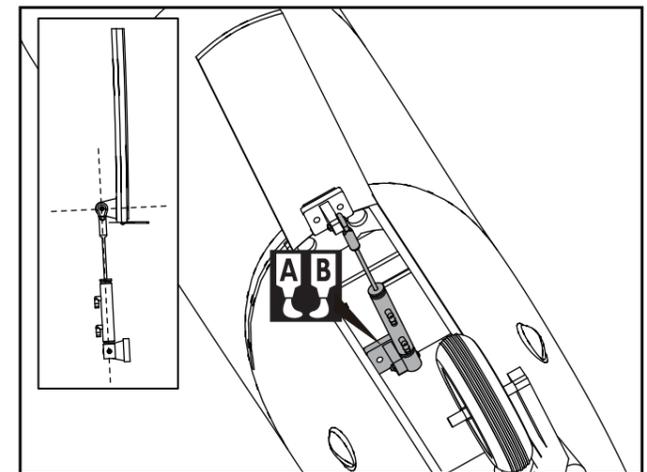
14 Fix the other side of the pin hinge to fuselage with screw as illustration.



15 Linking the air switch.



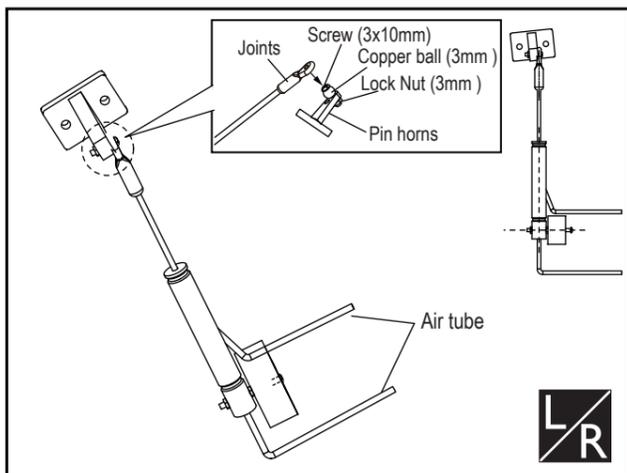
16 Fix the other side of the air switch to appropriate position in the fuselage as illustration below.



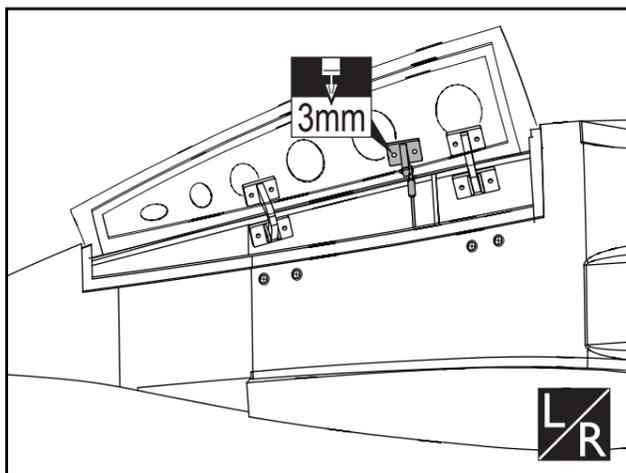
- Apply epoxy glue.
- Apply instant glue (CA glue, super glue).
- Assemble left and right sides the same way.
- Pay close attention here!
- Ensure smooth non-binding movement while assembling.
- Cut off shaded portion.
- Must be purchased separately!

Do not overlook this symbol!
 Warning!

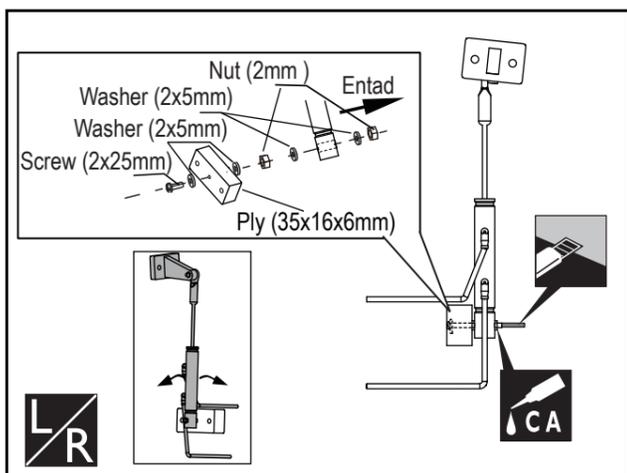
05 Install the air switch and link the horn as illustration below.



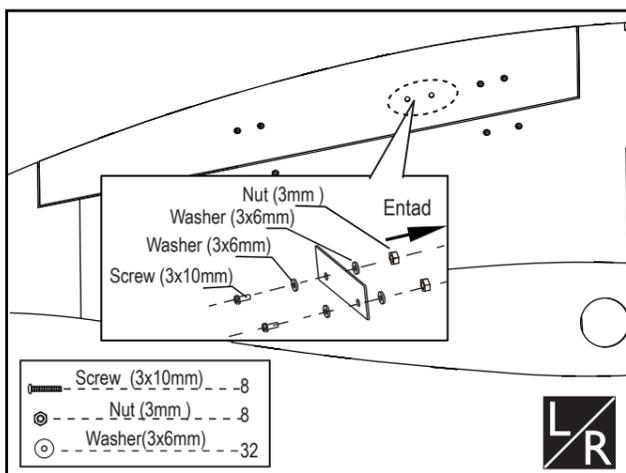
08 Fix the pin horn to relevant position in the gear door as below.



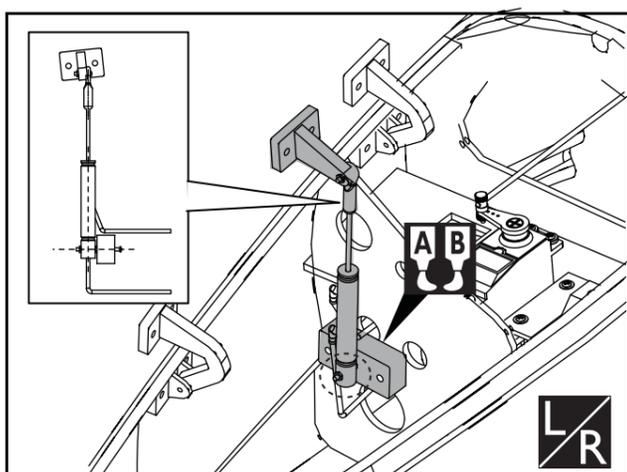
06 The sketch map of installing the air switch to the ply, cut away the surplus as below.



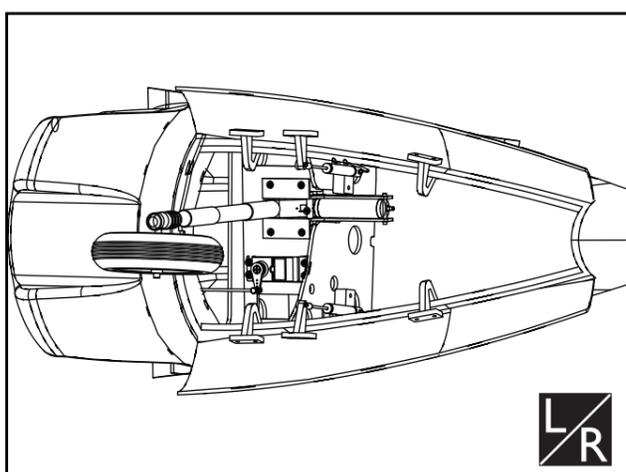
09 Notice the direction of the screw when assemble the pin horn.



07 Epoxy the air switch to appropriate position in fuselage.



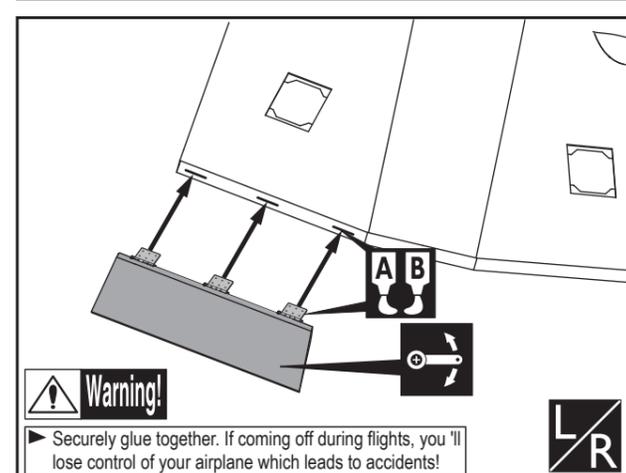
10 The sketch map when the gear up.



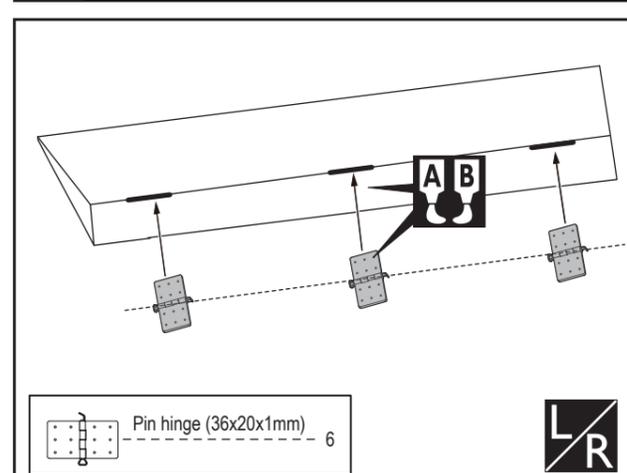
Accessory list for the coming installation steps.

	Clevis	2
	Retainer	2
	Rod (2x300mm)	2
	TP Screw (2.3x12mm)	8
	Screw (3x50mm)	2
	Servo tray (68.5x56.5x2mm)	2
	Wooden Block (20x20x8mm)	4
	Washer (3x15mm)	2
	Lock Nut (3mm)	2
	Washer (3x15mm)	2
	Pin hinge (36x20x1mm)	6

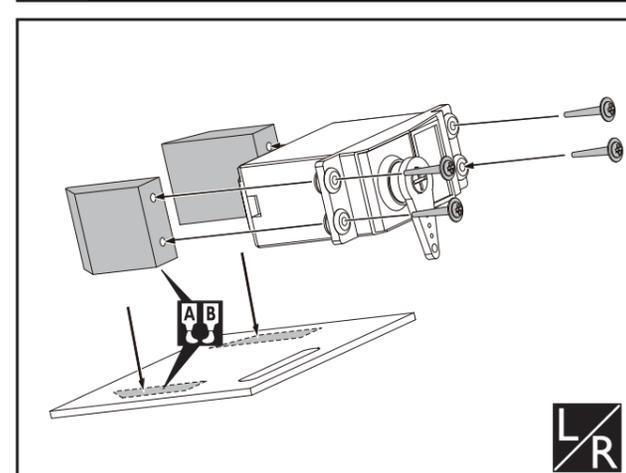
3 Epoxy the flap to the mid wing.



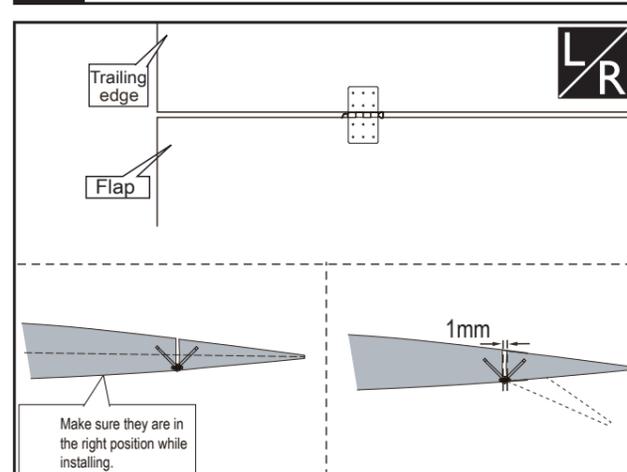
1 Epoxy the pin hinges to flap for the mid wing.



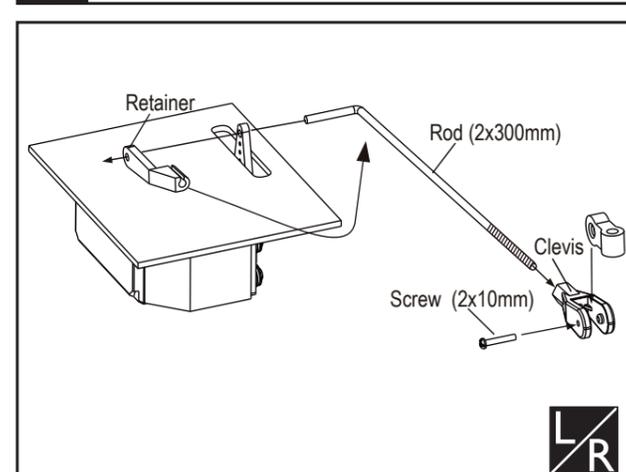
4 Install the servo of the flap as the illustration below.



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



5 Install the nylon control horn and connect the linkage.

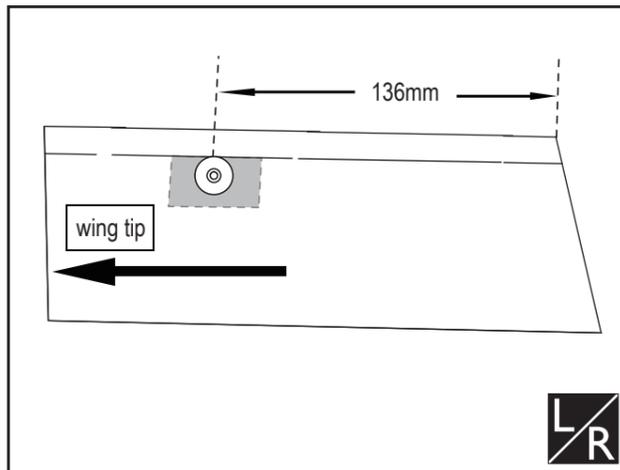


Apply epoxy glue.	Assemble left and right sides the same way.	Pay close attention here!	Do not overlook this symbol!
Apply instant glue (CA glue, super glue).	Ensure smooth non-binding movement while assembling.	Cut off shaded portion.	

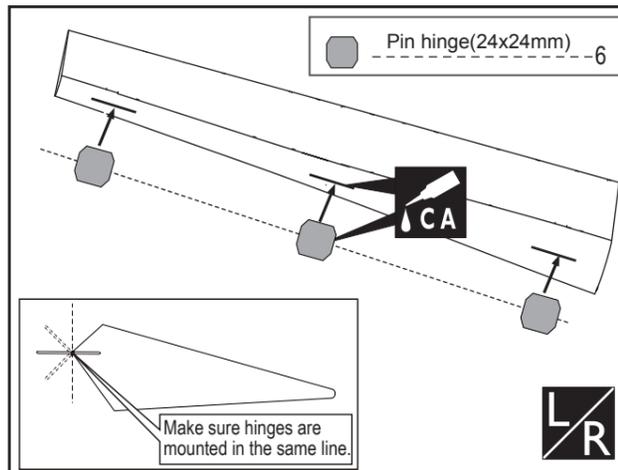
Apply epoxy glue.	Assemble left and right sides the same way.	Pay close attention here!	Do not overlook this symbol!
Apply instant glue (CA glue, super glue).	Ensure smooth non-binding movement while assembling.	Cut off shaded portion.	

6

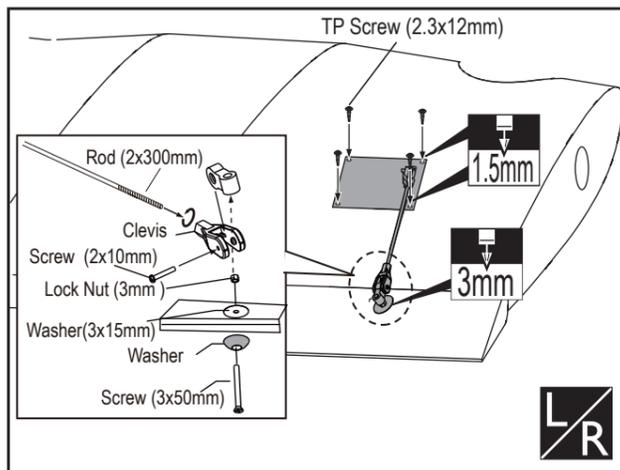
The position of the control horn in the flap for mid wing will be.

**8**

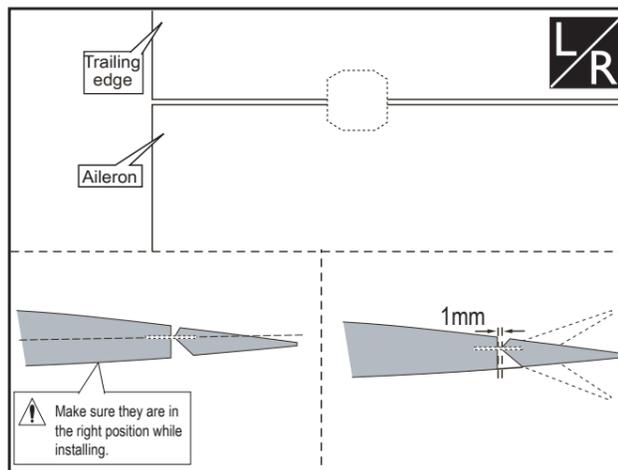
Glue the pin hinges to the aileron with CA instant glue.

**7**

Secure the servo, install the nylon control horn and connect the linkage.

**9**

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

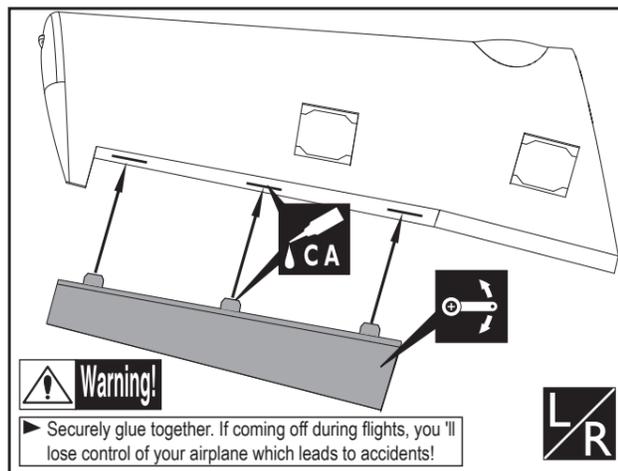


Accessory list for the coming installation steps.

	Clevis Retainer	2
	Rod (2x300mm)	2
	TP Screw (2.3x12mm)	8
	Screw (3x50mm)	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

10

Glue the aileron to the main wing with CA glue.



Recommended optional retract installation process.

All the accessories in the coming process are optional only. Customer should purchase them from our local distributor.

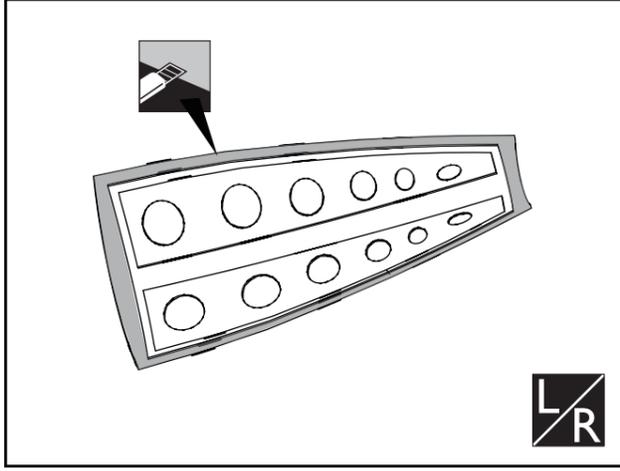


Accessory list for the coming installation steps. All these parts below are for option .

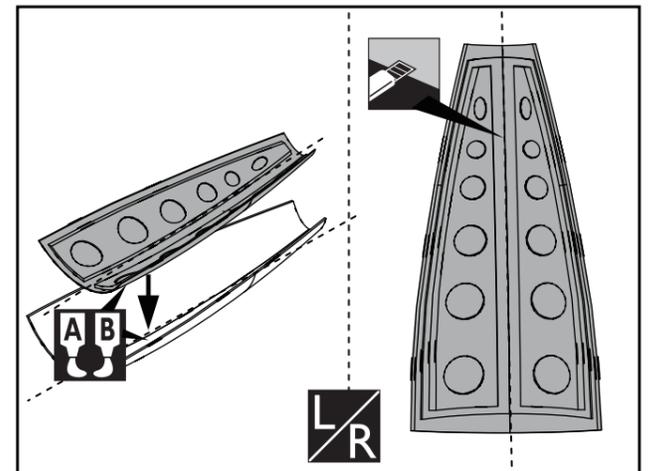
	Hatch hinges mount	8
	Air switch	5
	Pin horns	4
	Ply (35x16x6mm)	4
	Joints	4
	Screw (3x10mm)	48
	Nut (3mm)	48
	Washer(3x6mm)	90
	Screw (2x25mm)	3
	Nut (2mm)	6
	Washer(2x5mm)	12
	Pin horns	2
	Pin hinge (36x20x1mm)	1

01

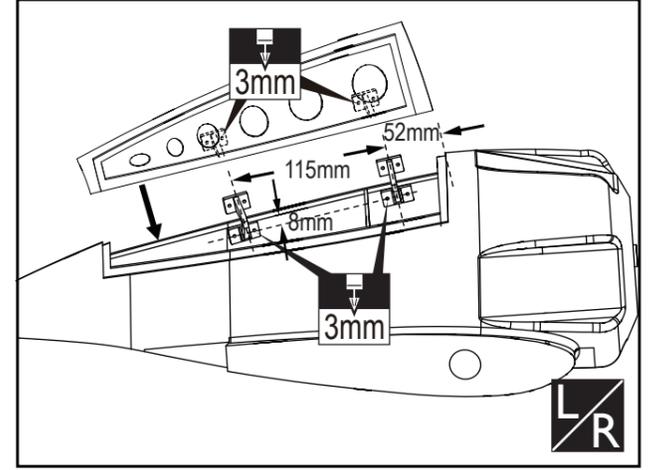
Trim the shaded portion along the PVC parts carefully.

**02**

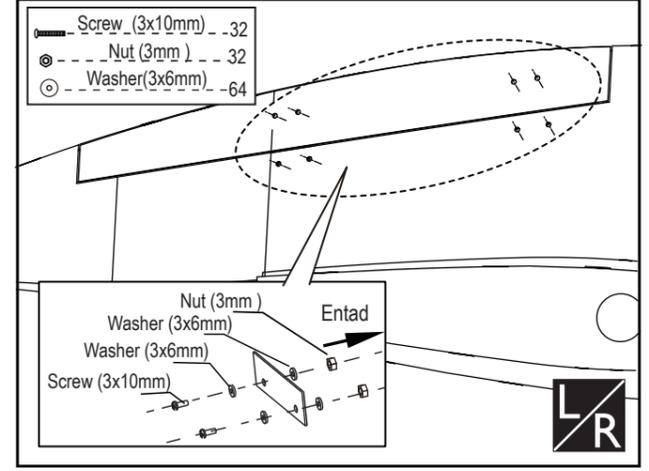
Epoxy the PVC parts to the fibre plate and cut it into two equal parts as below.

**03**

According to the hatch hinges mount holes drill holes to appropriate position in the gear door and assemble the hatch hinges mount to the gear door as below.

**04**

Notice the direction of the screw when assemble the hatch hinge mount.



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!



Apply instant glue (CA glue, super glue).



Ensure smooth non-binding movement while assembling.



Cut off shaded portion.



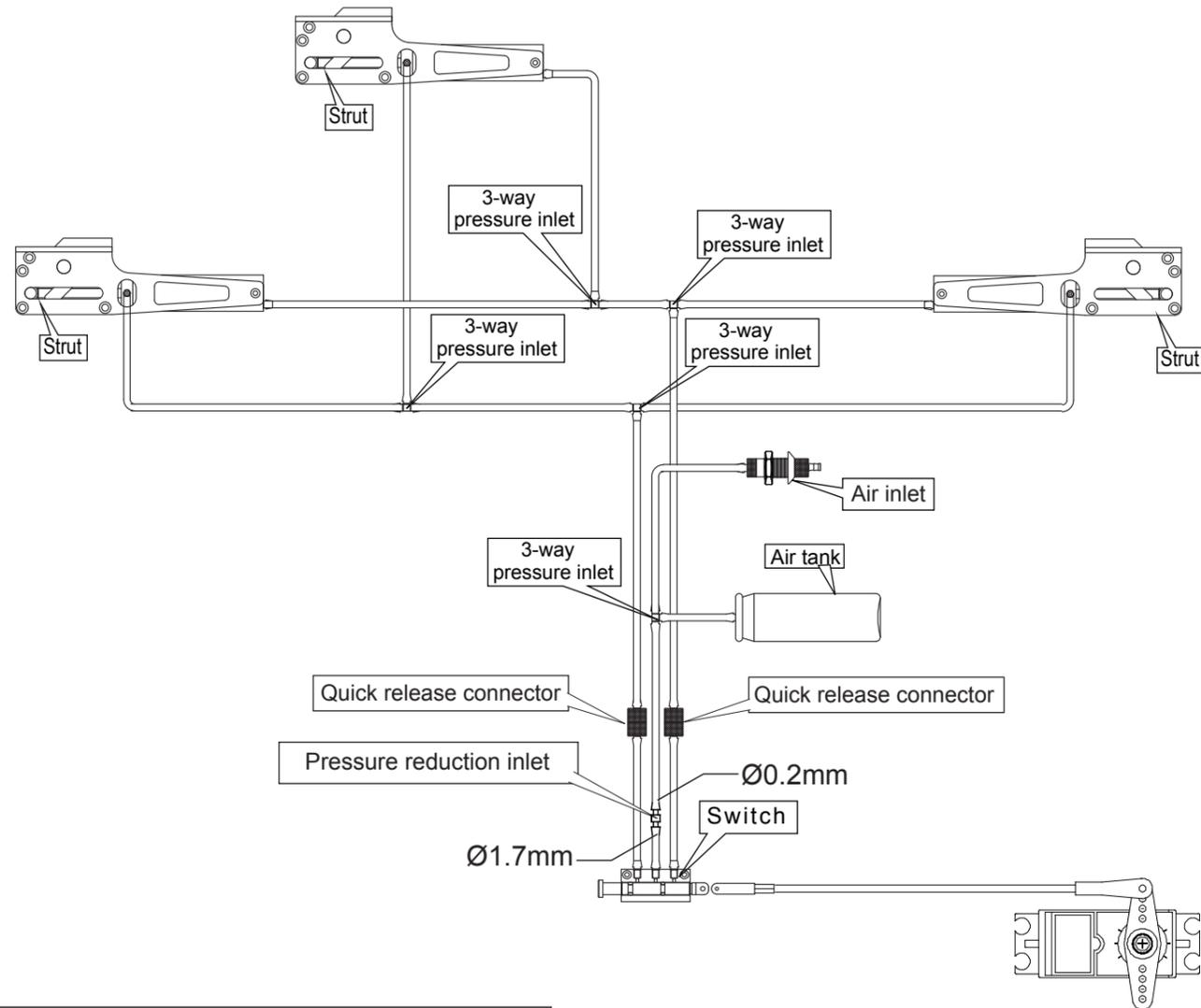
Must be purchased separately!

Do not overlook this symbol!

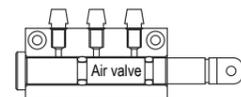


Three wheel retract system

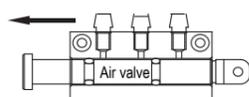
Warning! Make sure to assemble retracts as instructed below.
(Option accessories)



Warning! Please insure the sealing of the retract system before flight.
Please notice the inner diameter of each side of the pressure reduction inlet.



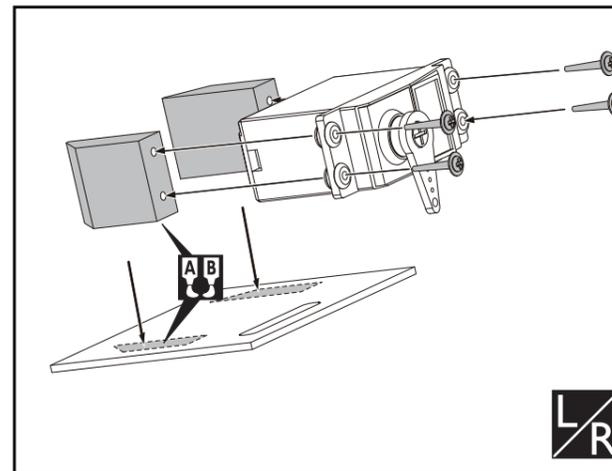
The status when the gear up



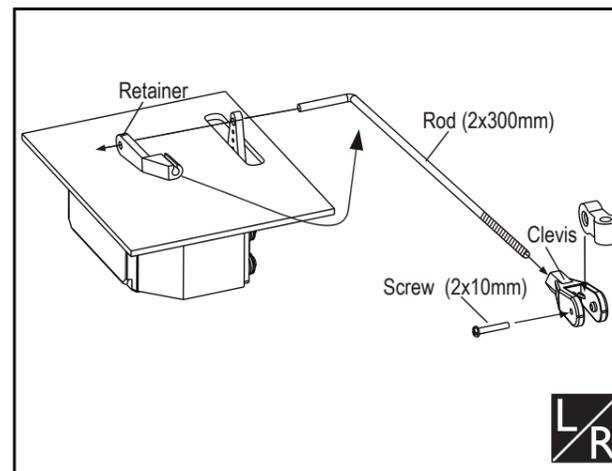
Pull out length of 8mm to make gear down

TP Screw (2.6x14mm) 2	Switch 1
Retainer 1	Air line (3000mm) 1
Clevis 1	3-way pressure inlet 5
Rod (2X300mm) 1	Air tank 1
	Air inlet 1
	Quick release connector 2
Strut (110°) 1	Quick release connector 2
	Strut (90°) 2

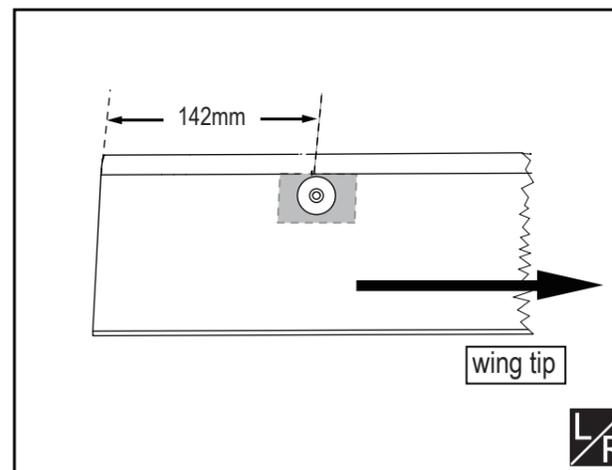
11 Install the servo of aileron as the illustration below.



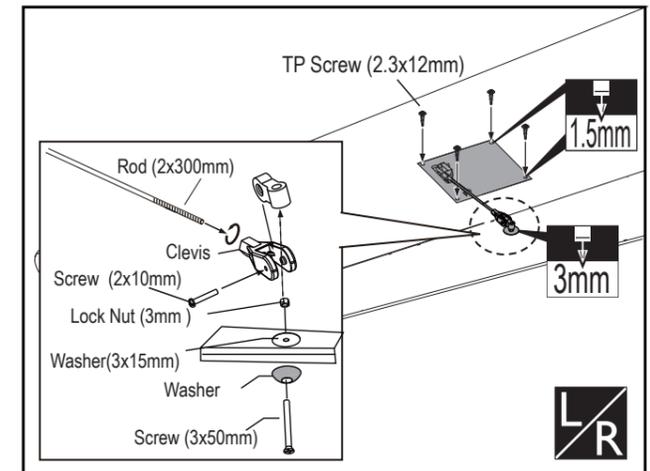
12 Install the nylon control horn and connect the linkage.



13 The position of the control horn in the flap of the main wing will be.



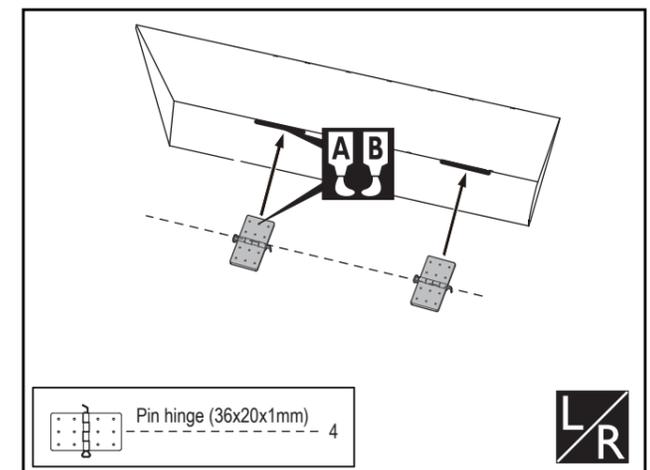
14 Secure the servo, install the nylon control horn and connect the linkage.



Warning! Accessory list for the coming installation steps.

Clevis	2
Retainer	2
Rod (2x300mm)	2
TP Screw (2.3x12mm)	8
Screw (3x50mm)	2
Servo tray (68.5x56.5x2mm)	2
Wooden Block (20x20x8mm)	4
Washer (3x15mm)	2
Lock Nut (3mm)	2
Washer (3x15mm)	2
Pin hinge (36x20x1mm)	4

15 Epoxy the pin hinges to the flap of the main wing.



A B Apply epoxy glue.

L/R Assemble left and right sides the same way.

E Pay close attention here!

CA Apply instant glue (CA glue, super glue).

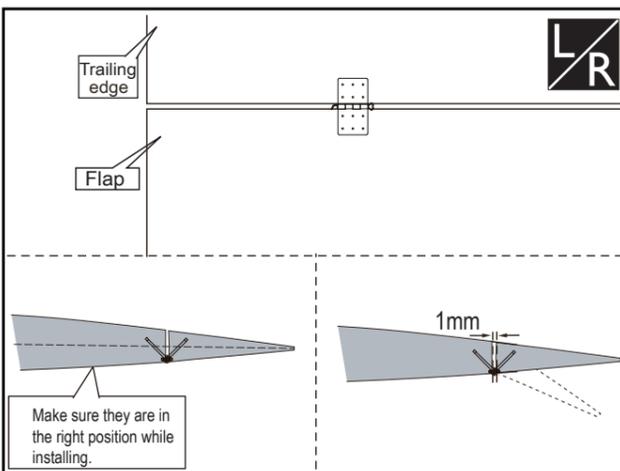
→ Ensure smooth non-binding movement while assembling.

■ Cut off shaded portion.

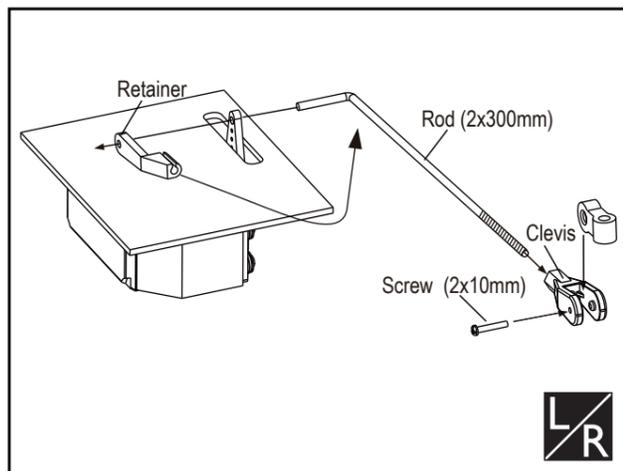
Do not overlook this symbol!



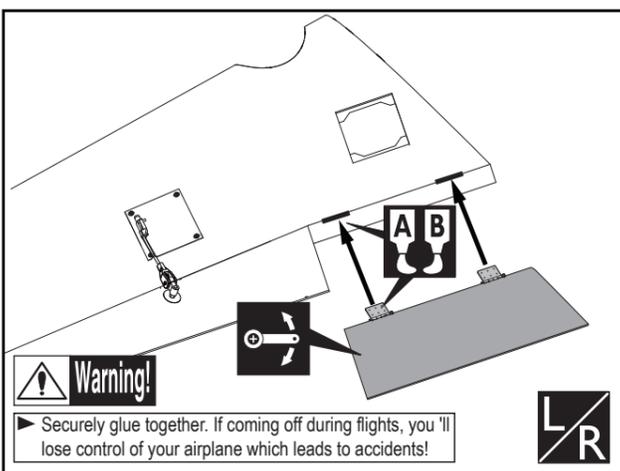
16 Keep some space about 1mm width between the trailing edge and flap.



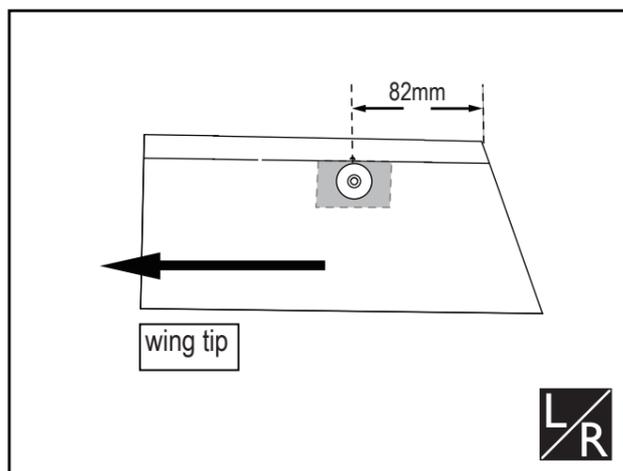
19 Install the nylon control horn and connect the linkage.



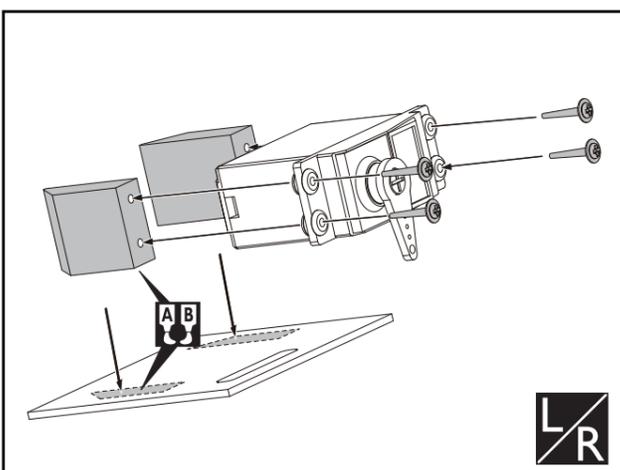
17 Epoxy the flap to the main wing.



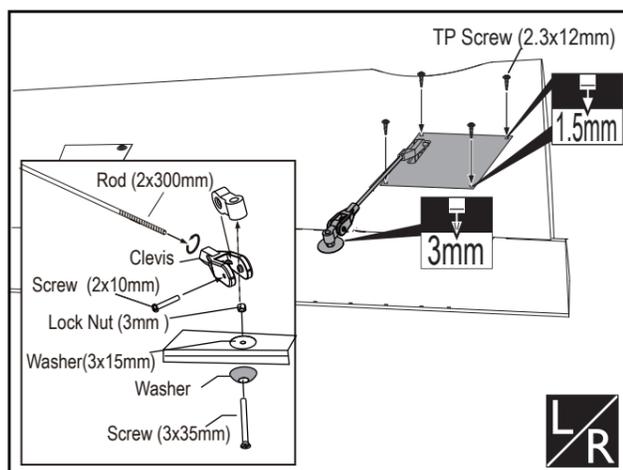
20 The position of the control horn in the flap will be.



18 Install the flap servo as below.



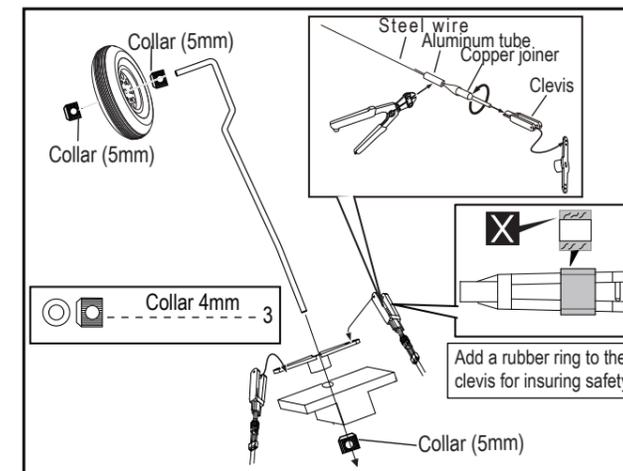
21 Secure the servo, install the nylon control horn and connect the linkage.



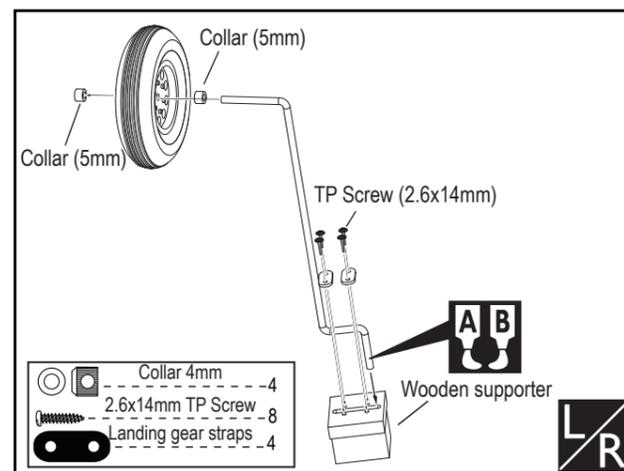
Accessory list for the coming installation steps.

	Wooden Block(56x29x26mm)	2
	Landing gear straps	4
	Wooden Block(89x29x14mm)	1
	Wheel (90 mm)	1
	Wheel (110 mm)	2
	Collar (5mm)	7
	Steel wire (0.5x1500mm)	2
	Landing gear (5mm)	1
	Copper joiner	2
	Clevis	2
	TP Screw(2.6x14mm)	8
	Landing gear (5mm)	1
	Ally nose arm	1

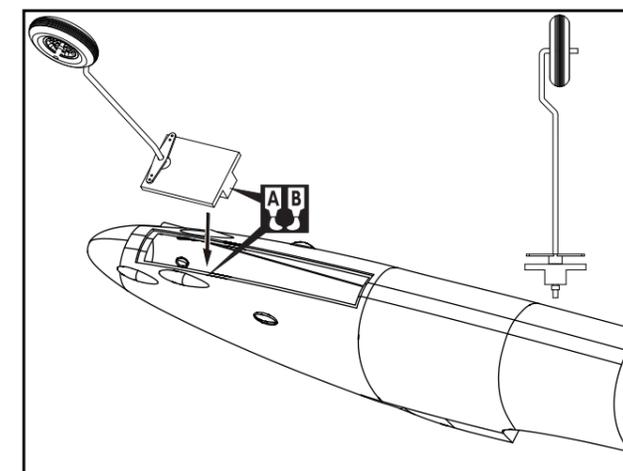
90 Install the nose landing gear as below.



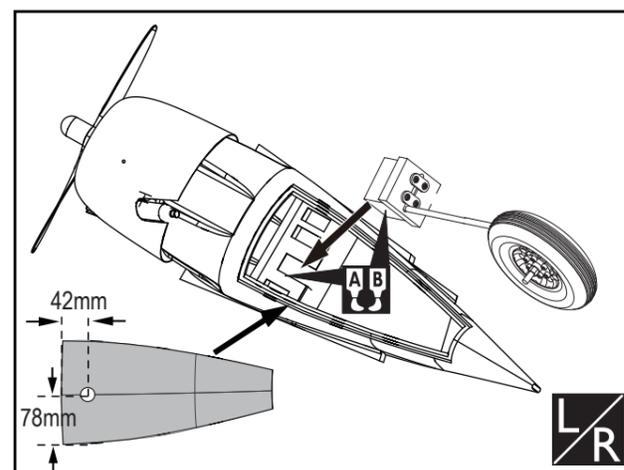
88 Install the main landing gear and fix the wooden supporter steadily.



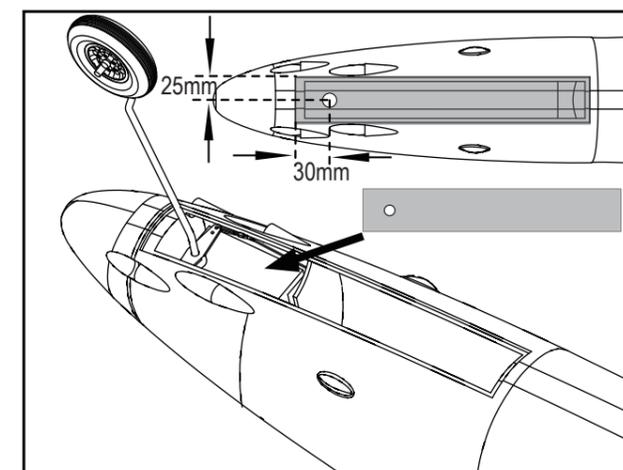
91 Epoxy the nose landing gear to appropriate position inside the fuselage.



89 Epoxy the main landing gear to the side fuselage.



92 Drill a hole on the wheel pants and assemble it.



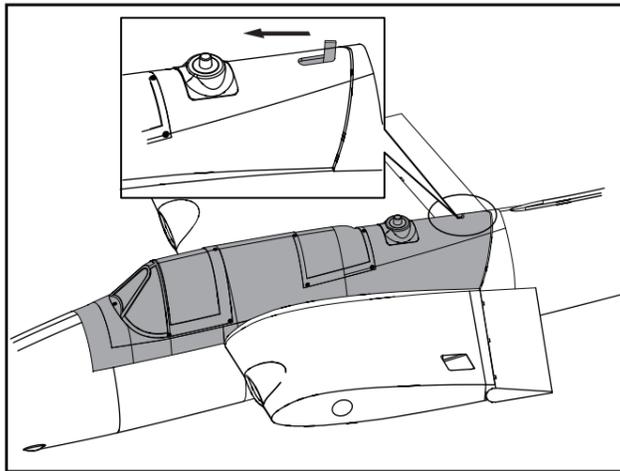
AB Apply epoxy glue. **LR** Assemble left and right sides the same way. **Hand icon** Pay close attention here! **Warning icon** Do not overlook this symbol!

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

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!

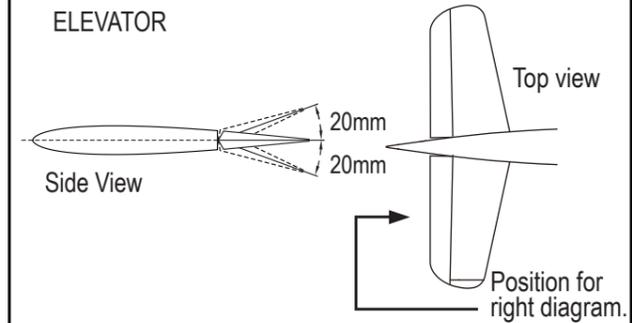
CA Apply instant glue (CA glue, super glue). **Arrow icon** Ensure smooth non-binding movement while assembling. **Shaded area icon** Cut off shaded portion.

82 Push the hatch thimble to front when assemble the canopy to fuselage.

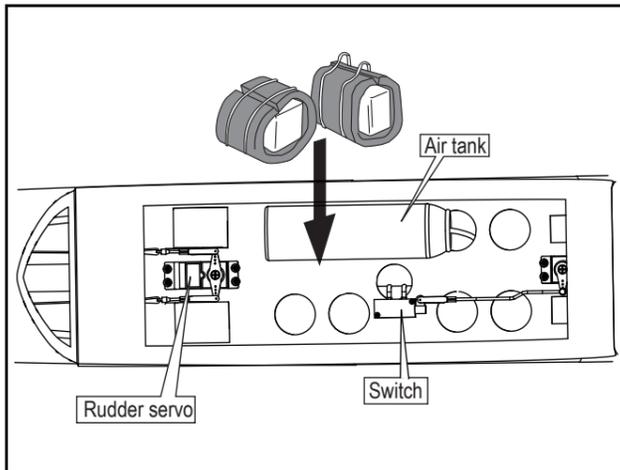


85 Adjustment.

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

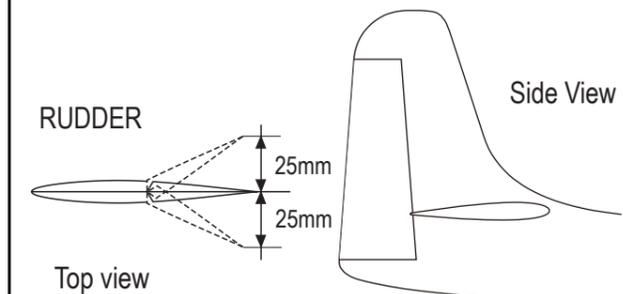


83 Mount the receiver and the battery into the fuselage. Assemble the servo of rudder, switch in the fuselage.



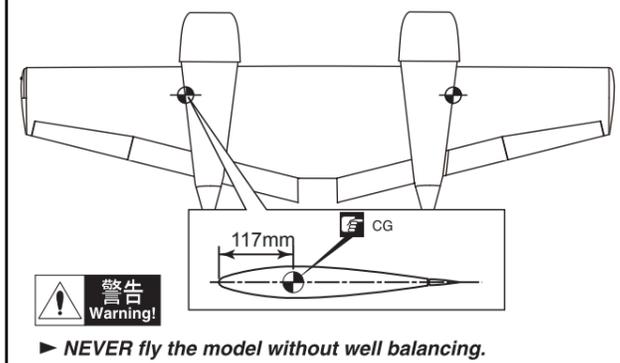
86 Adjustment.

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



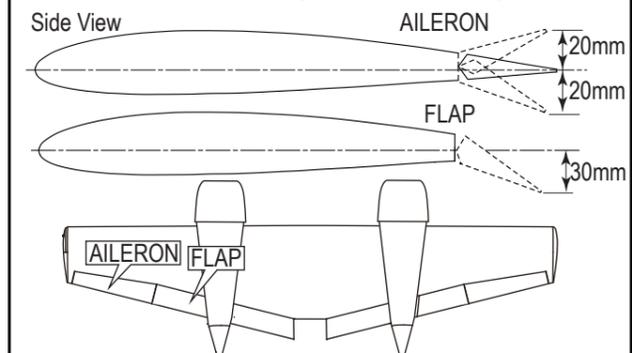
84 The centre of the Gravity.

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

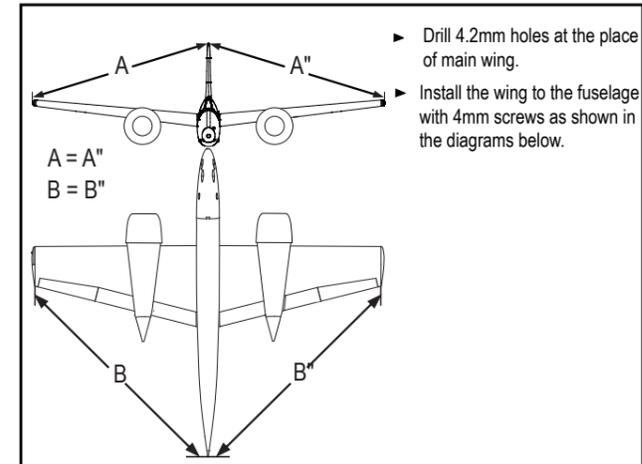


87 Adjustment.

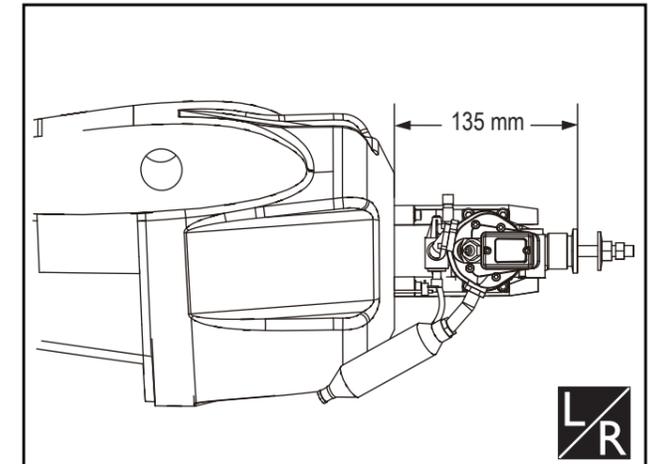
▶ Adjust the travel of each control surface to the values in the diagrams. These values fit general flight capabilities. Readjust according to your needs and flight level.



22 The sketch map when the main wing install completion.



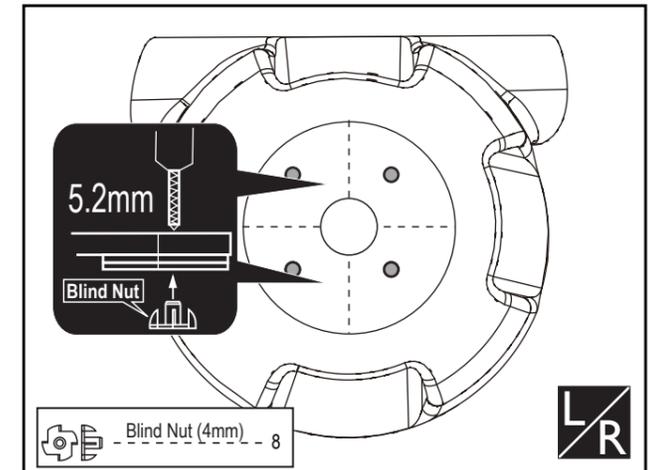
24 The side view when the engine install completion.



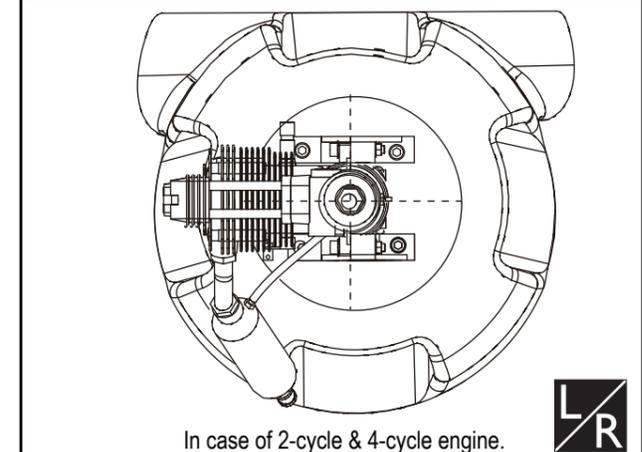
23 Accessory list for the coming installation steps.

	Screw (4x35mm)	8
	Screw (4x25mm)	8
	Washer(4x8mm)	24
	Spring Washer (4mm)	8
	Nut (4mm)	8
	Linkage Stopper	4
	Plastic tube (2x430mm)	2
	Engine mount (68x105mm)	4
	Blind Nut (4mm)	8
	Fuel tank (448cc)	2

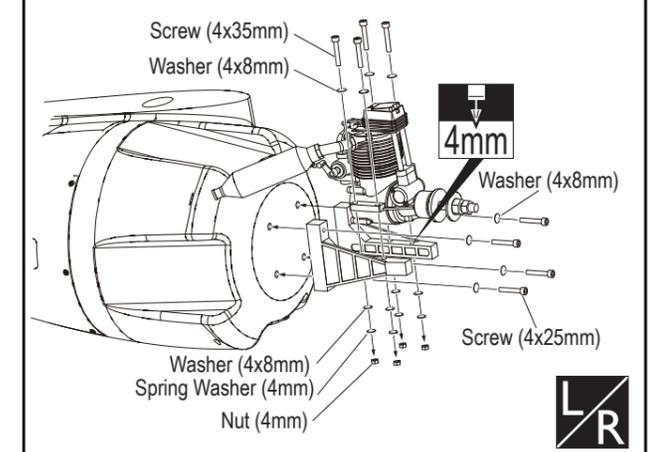
25 Drill four holes at the diameters as show for engine mount.



26 The front view when the engine install completion.



26 Assemble the engine as the illustration below.



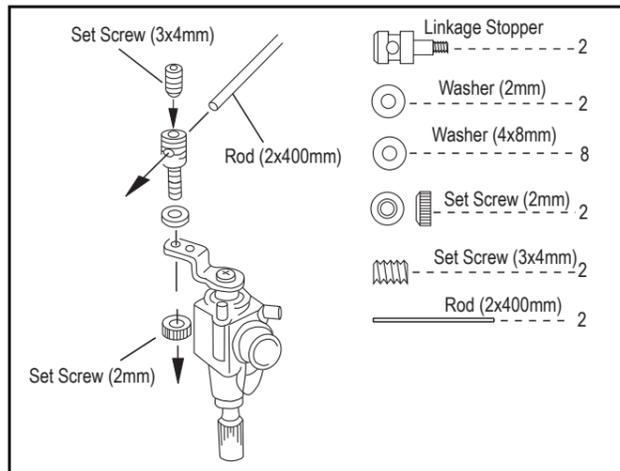
Apply epoxy glue. Assemble left and right sides the same way. Pay close attention here! Do not overlook this symbol!

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

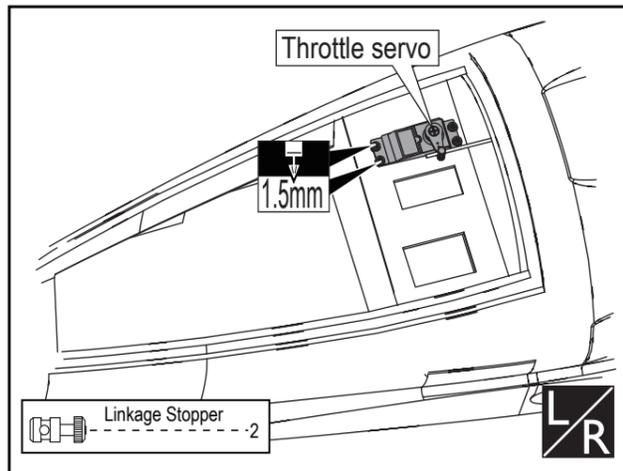
Apply epoxy glue. Assemble left and right sides the same way. Pay close attention here! Do not overlook this symbol!

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

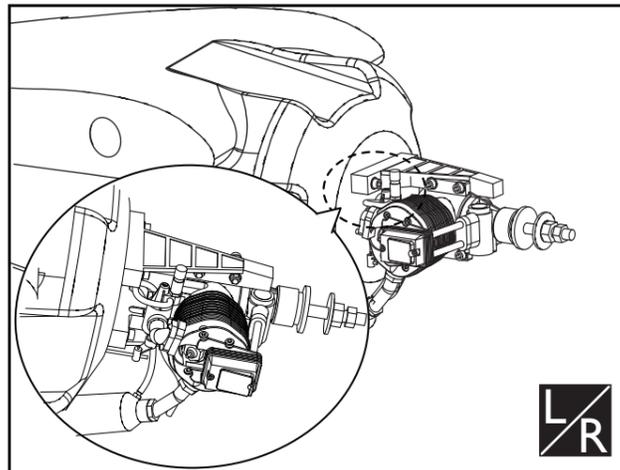
27 Assemble the accelerator push rod to the engine.



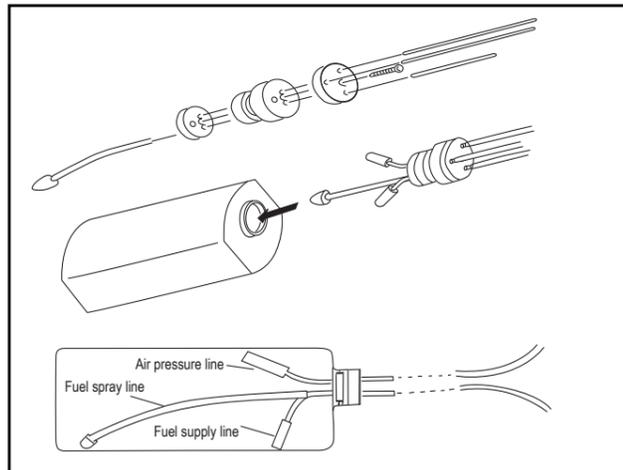
30 Assemble the throttle servo in the fuselage.



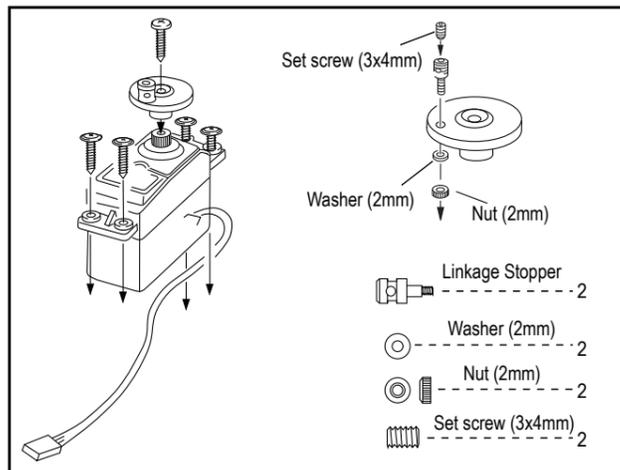
28 The sketch map when the engine install completion.



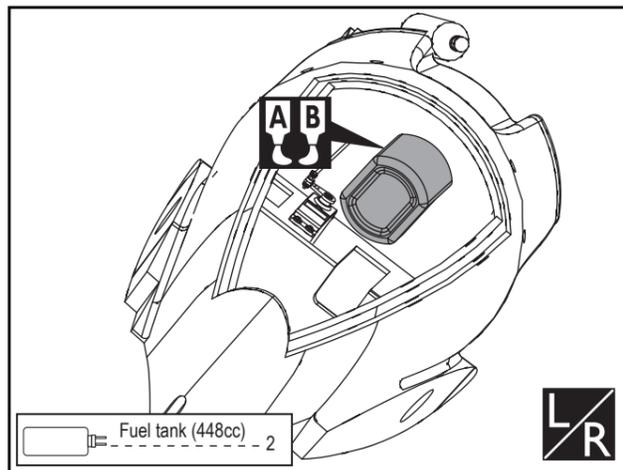
31 Assemble the fuel tank as below.



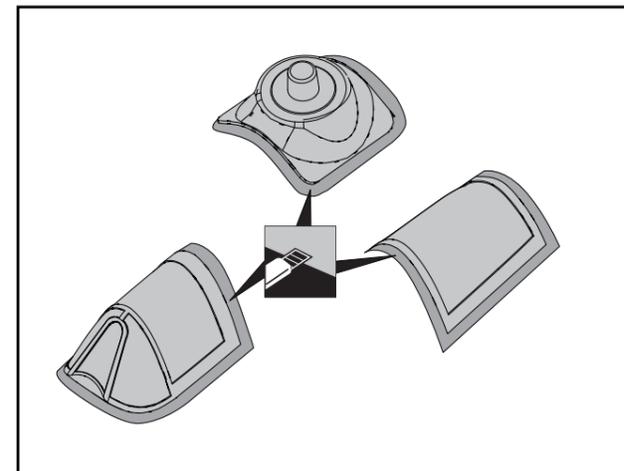
29 Install the servo of throttle.



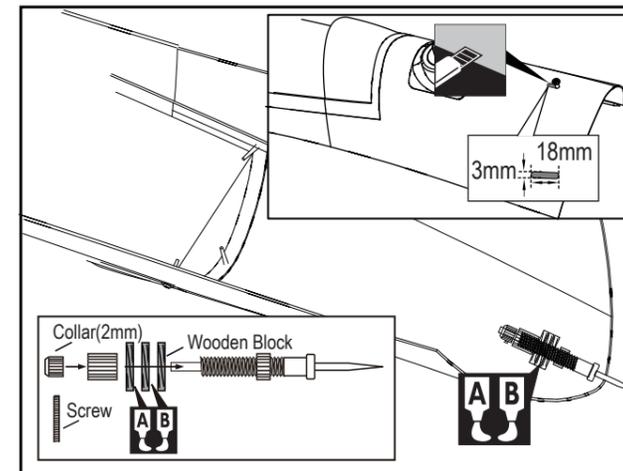
32 Epoxy the fuel tank to the side fuselage.



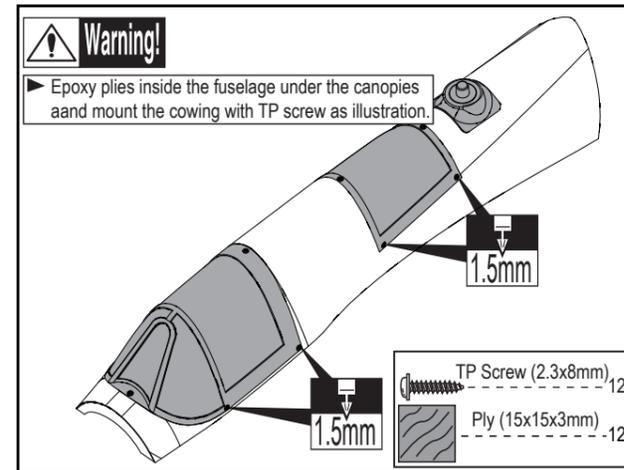
76 Cut away the surplus parts of the canopy carefully along the shaded line.



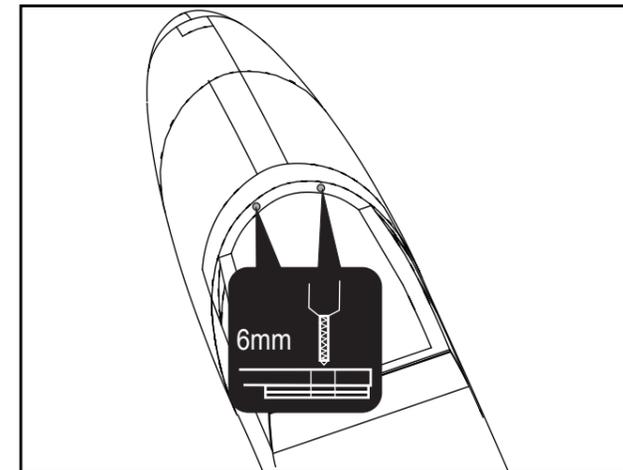
79 Epoxy the hatch thimble to appropriate position inside the canopy.



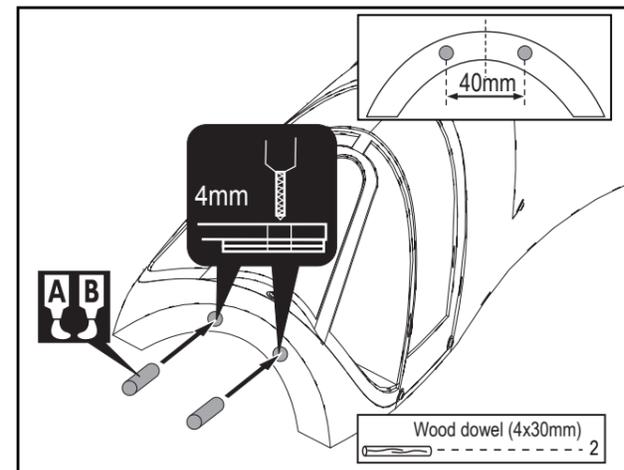
77 Epoxy plies under the fibre canopy and mount the PVC canopies with TP screw.



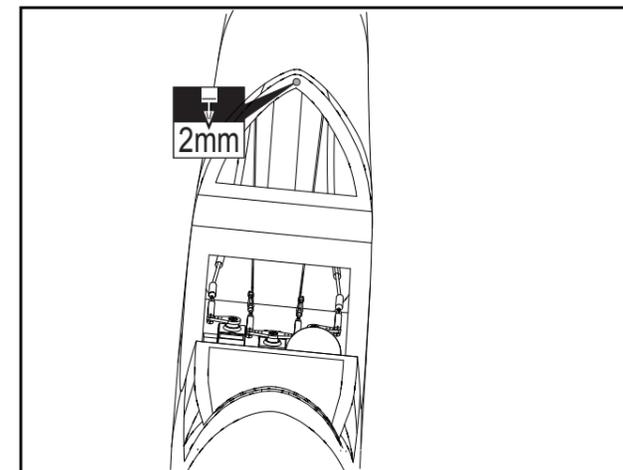
80 Drill two holes to the relevant position in the fuselage.



78 Drill two holes to appropriate in the fibre canopy and epoxy wood dowel in them.



81 Drill a hole to appropriate position in the fuselage as below.



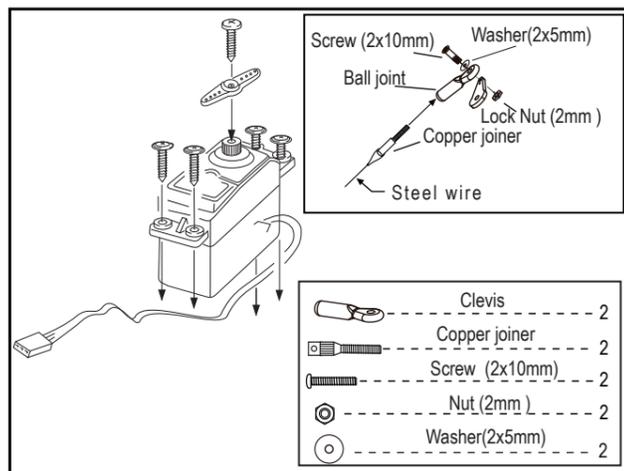
A B Apply epoxy glue. **L R** Assemble left and right sides the same way. **Hand icon** Pay close attention here! **Warning icon** Do not overlook this symbol!

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

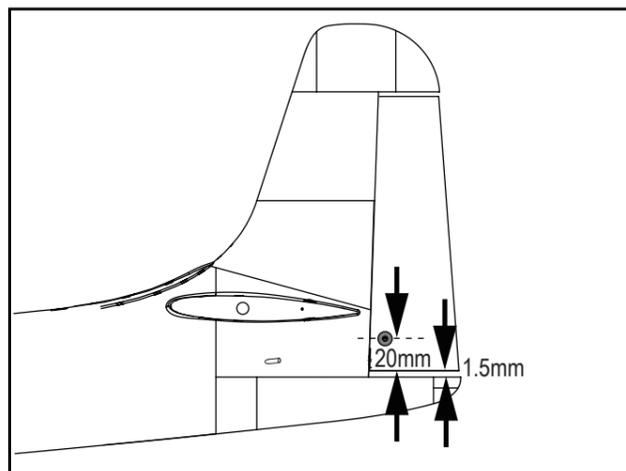
A B Apply epoxy glue. **L R** Assemble left and right sides the same way. **Hand icon** Pay close attention here! **Warning icon** Do not overlook this symbol!

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

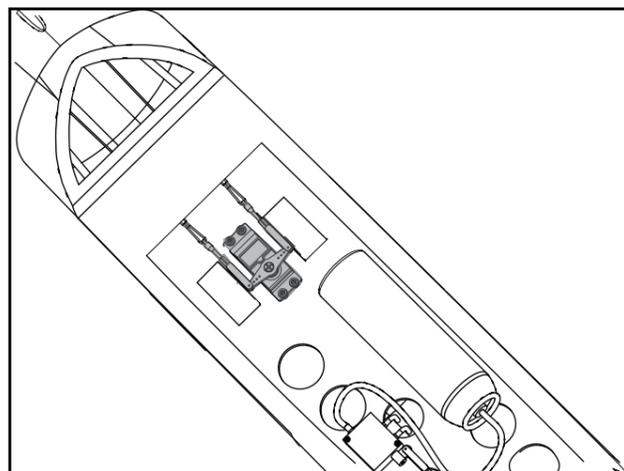
71 Install the servo of the rudder.



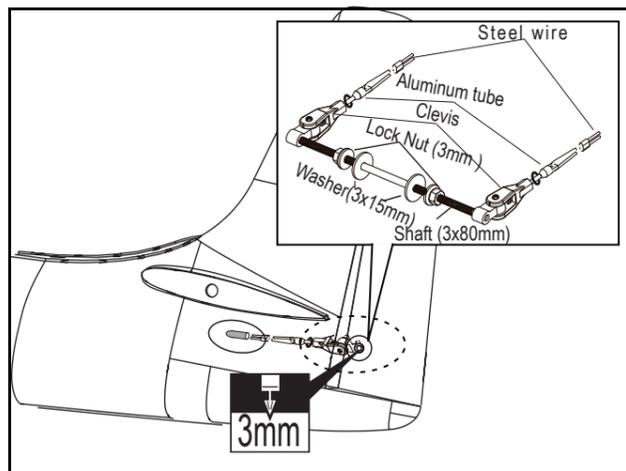
74 Drill a small hole to appropriate position in the rudder.



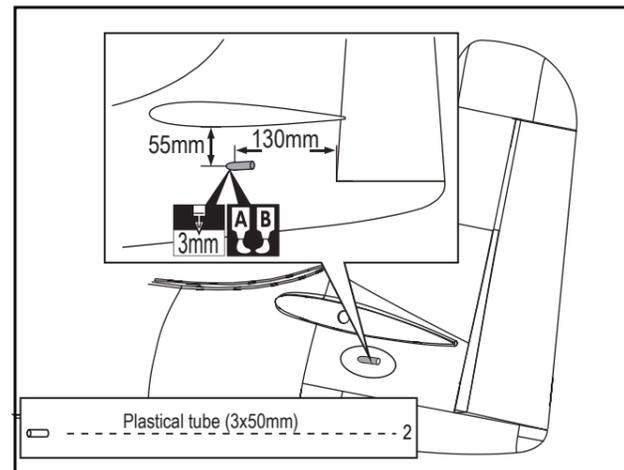
72 Assemble the servo for rudder to appropriate position in the fuselage.



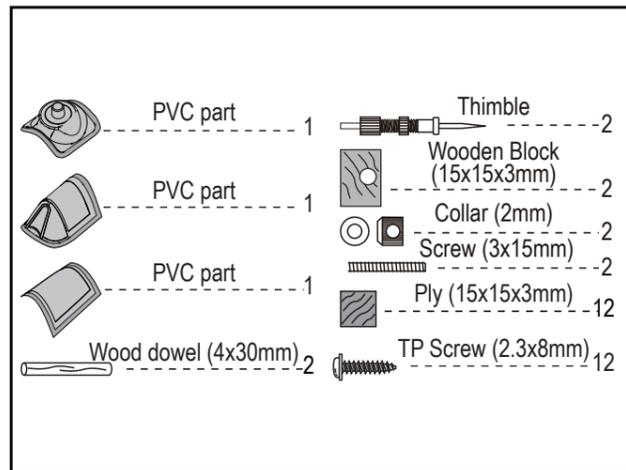
75 Set the shaft through the hole, fix it and connect the linkage as illustration.



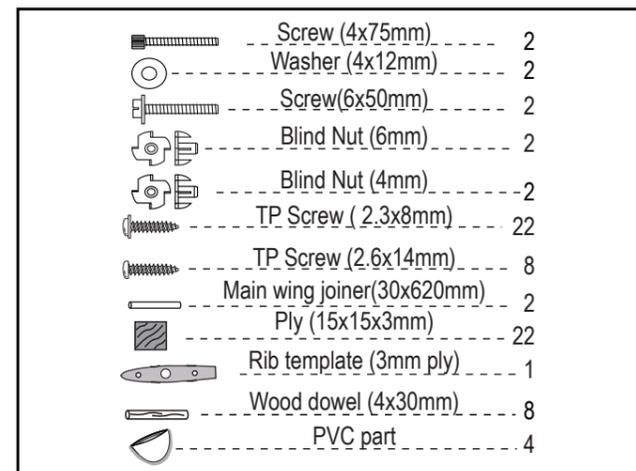
73 Drill a small hole and epoxy the plastical tube in it as illustration below.



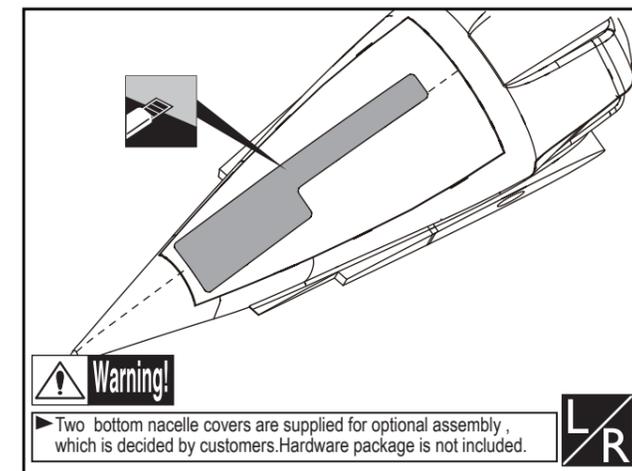
Accessory list for the coming installation steps.



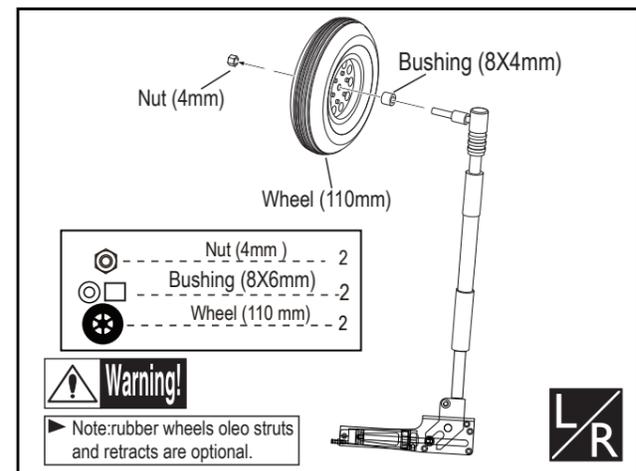
Accessory list for the coming installation steps.



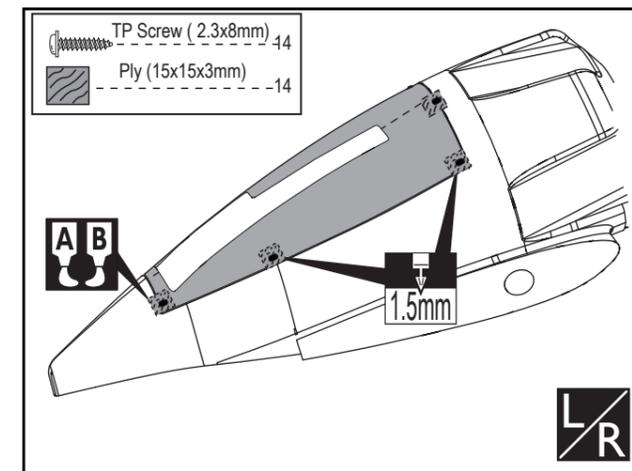
35 Cut off the shaded portion carefully.



33 Assemble the rear wheel to the landing gear.



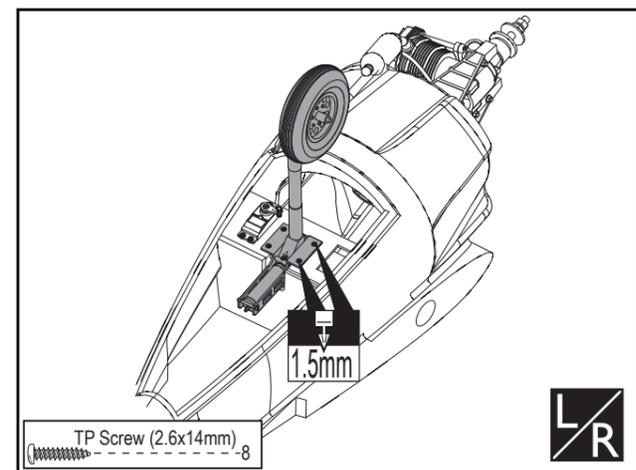
36 Epoxy plies to appropriate position under the nacelle cover and assemble the nacelle cover to the side fuselage.



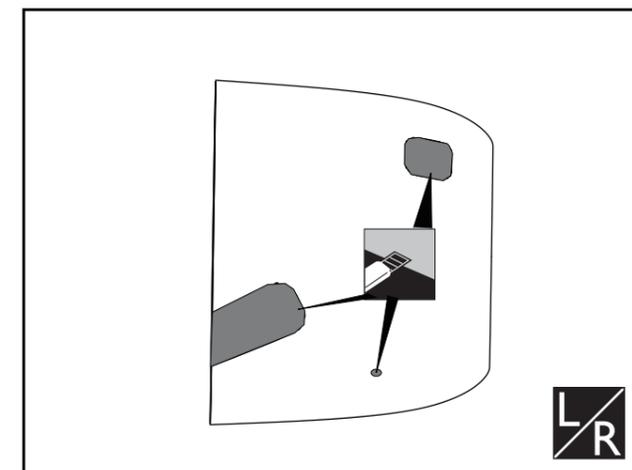
AB Apply epoxy glue. **LR** Assemble left and right sides the same way. **Hand icon** Pay close attention here! **Warning icon** Do not overlook this symbol!

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

34 Assemble the landing gear in the side fuselage as below.



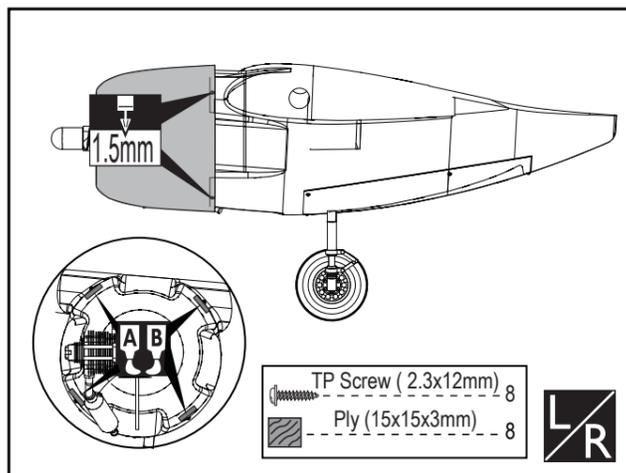
37 Trim the cowling for engine and muffler.



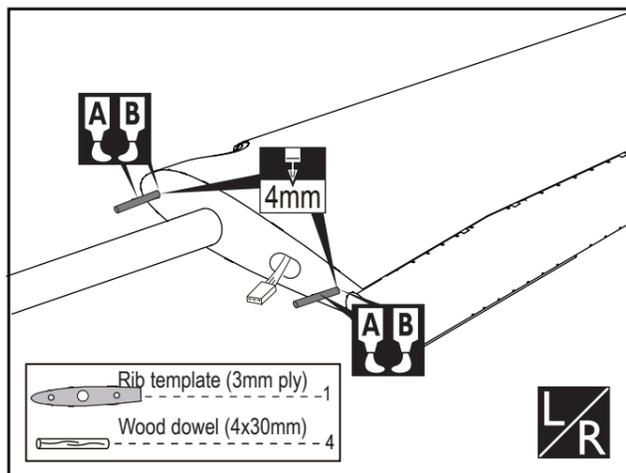
AB Apply epoxy glue. **LR** Assemble left and right sides the same way. **Hand icon** Pay close attention here! **Warning icon** Do not overlook this symbol!

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

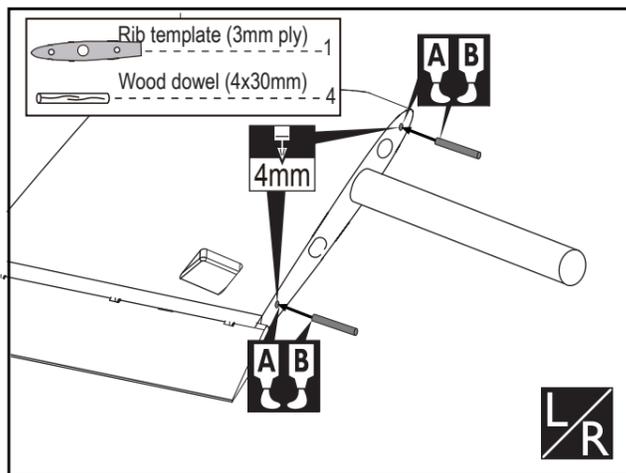
38 Epoxy the plies to the appropriate position under the the cowlng and assemble the cowlng to side fuselage with TP Screw.



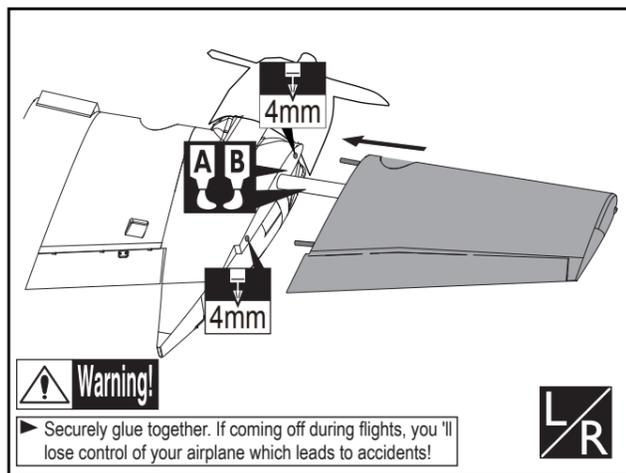
41 According to the rib template drill holes in the main wing and epoxy wood dowel in them.



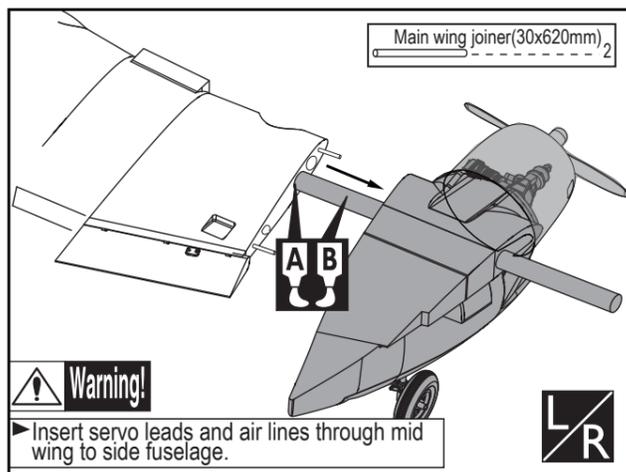
39 According to the rib template drill holes in the mid wing and epoxy wood dowel in them.



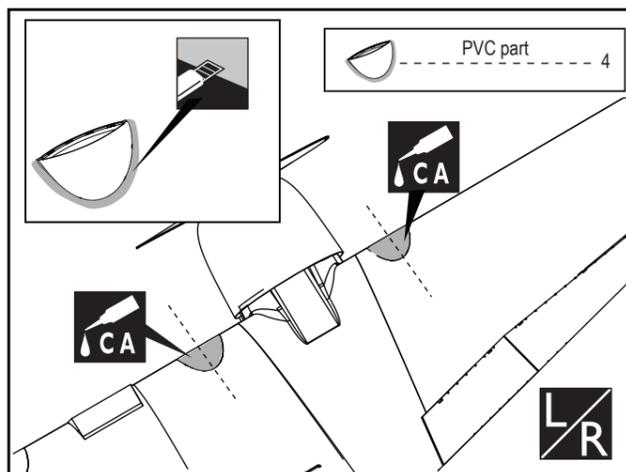
42 Assemble the main wing to the side fuselage steadily.



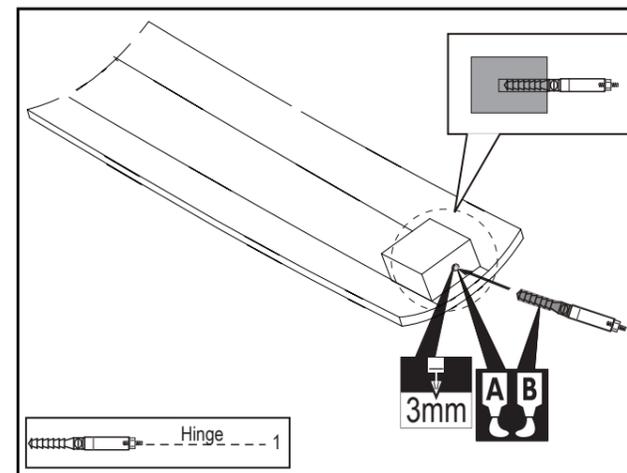
40 Assemble the side fuselage to the mid wing as illustration.



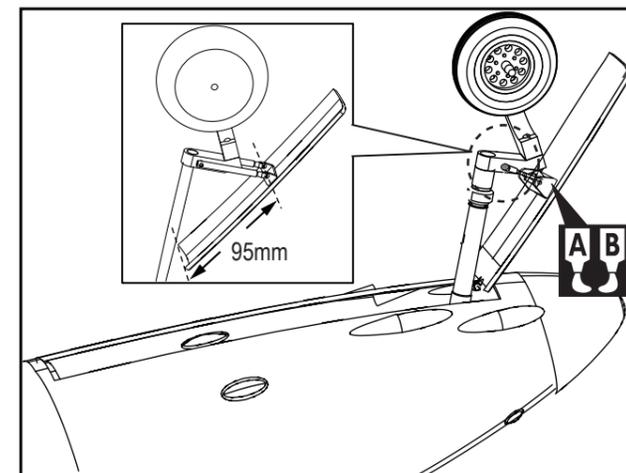
43 Trim the PVC parts and glue them to appropriate position with CA glue.



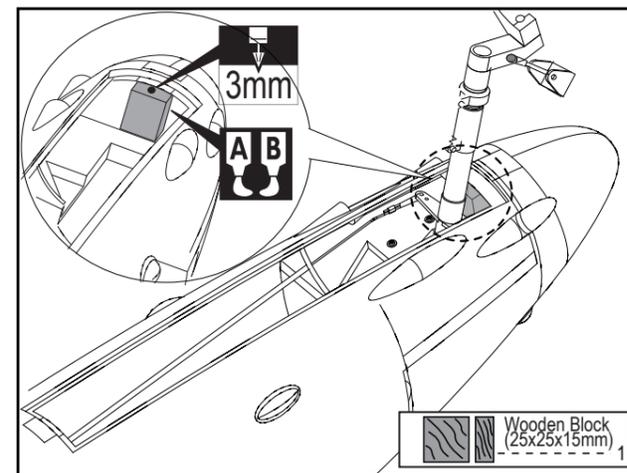
66 Drill a hole in the wooden block and epoxy the hing in it.



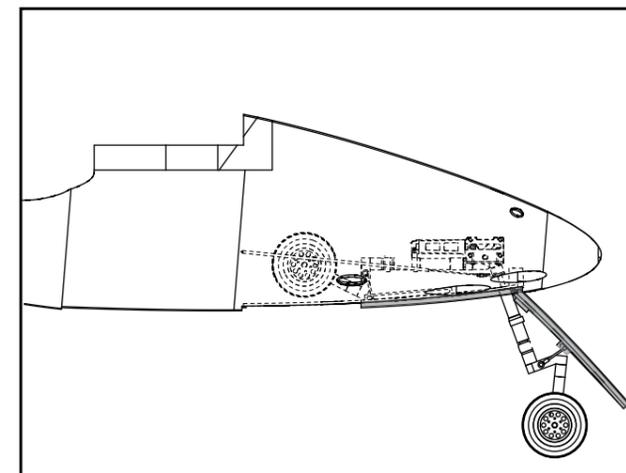
69 Epoxy the nose gear to the nose gear door as illustration.



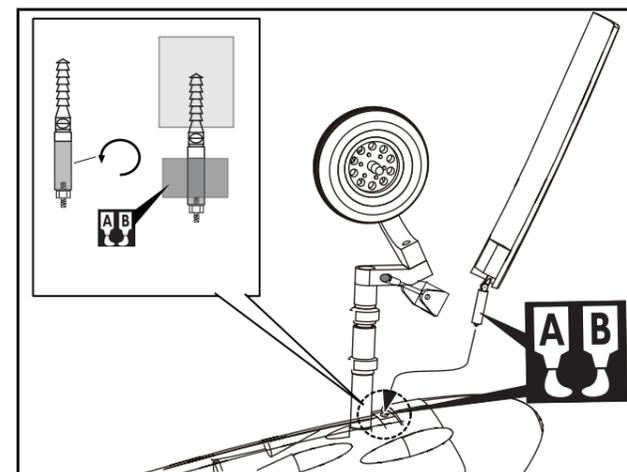
67 Drill a hole in a wooden block and epoxy it to appropriate position in the fuselage illustration.



70 The sketch map when the nose gear up and down.



68 Epoxy the nose gear door to the wooden block steadily.



Warning! Accessory list for the coming installation steps.

	Clevis	2
	Copper joiner	2
	Screw (2x10mm)	2
	Nut (2mm)	2
	Washer(2x5mm)	2
	Steel wire (0.5x1500mm)	2
	Clevis	2
	Washer(3x15mm)	2
	Lock Nut (3mm)	2
	Shaft (3x80mm)	1
	Plastical tube (3x50mm)	2

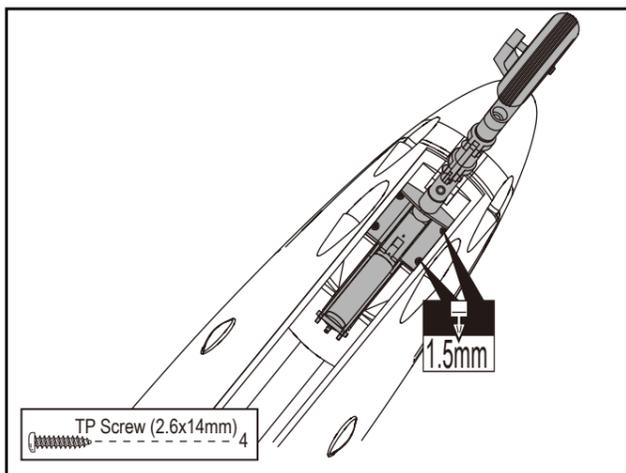
A B Apply epoxy glue. **LR** Assemble left and right sides the same way. **Pay close attention here!** Do not overlook this symbol! **Warning!**

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

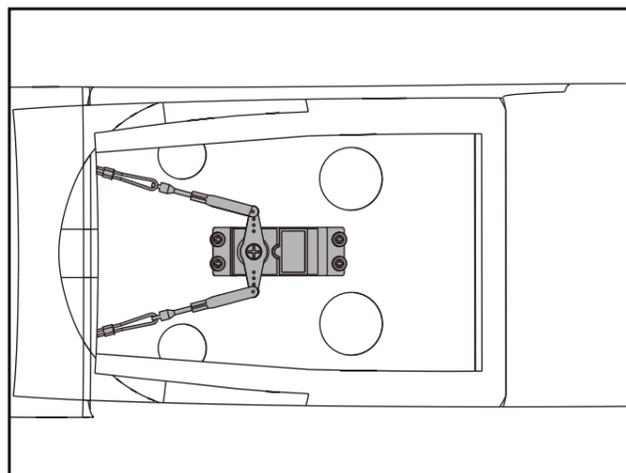
A B Apply epoxy glue. **LR** Assemble left and right sides the same way. **Pay close attention here!** Do not overlook this symbol! **Warning!**

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

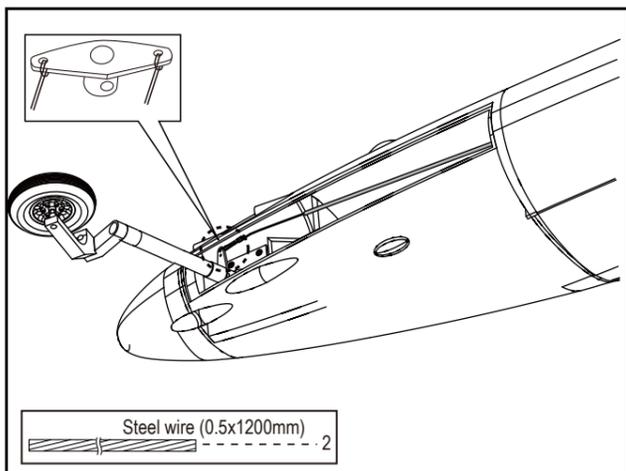
60 Assemble the nose landing gear to the fuselage steadily.



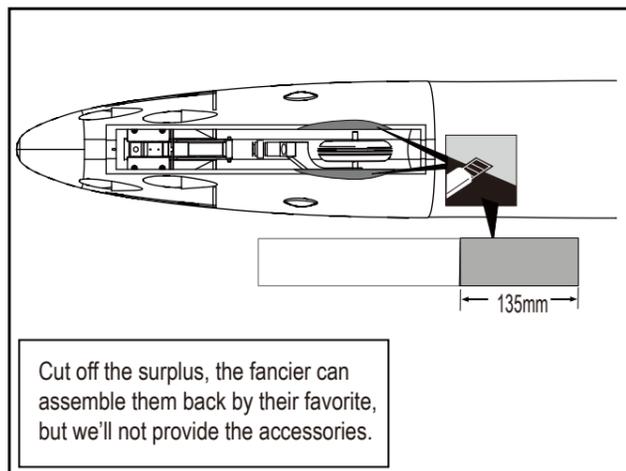
63 Assemble the servo to the fuselage.



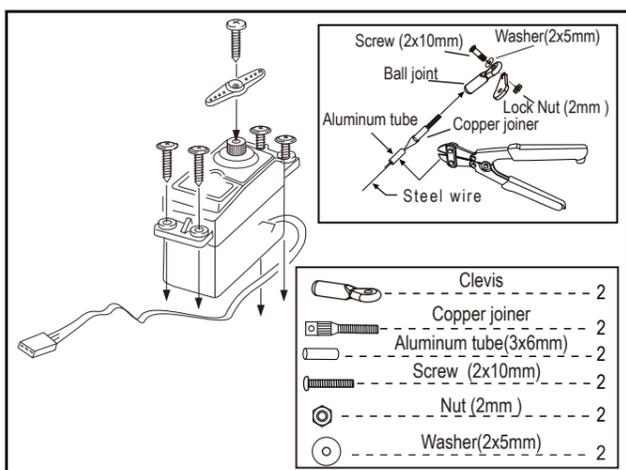
61 Pass the steel wire through the holes in the fullarm as the illustration below.



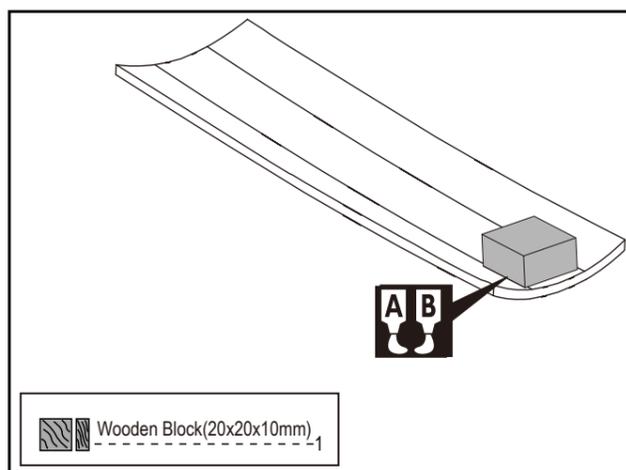
64 The sketch map when the nose landing gear down.



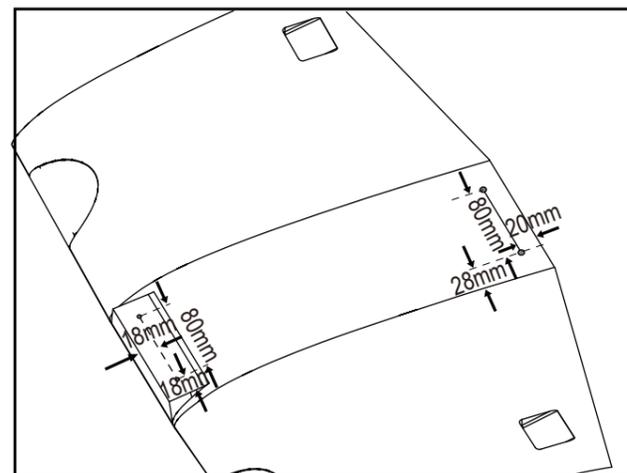
62 Install the servo for the nose landing gear.



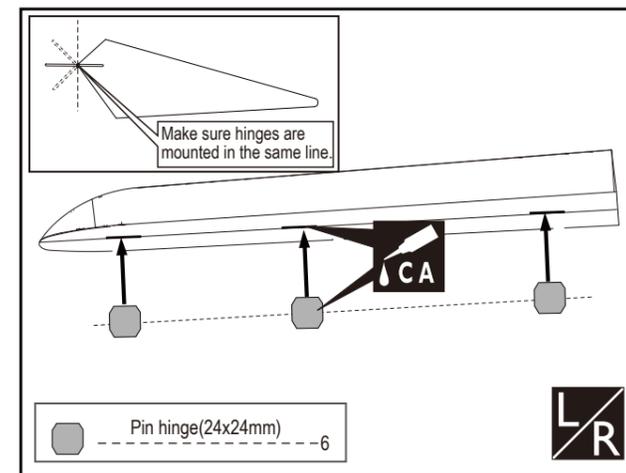
65 Epoxy the wooden block to the appropriate position on the nose gear door.



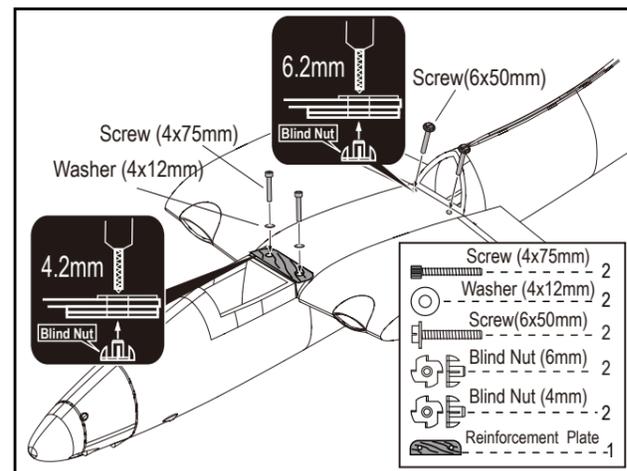
44 According to the datas drill holes in the mid wing .



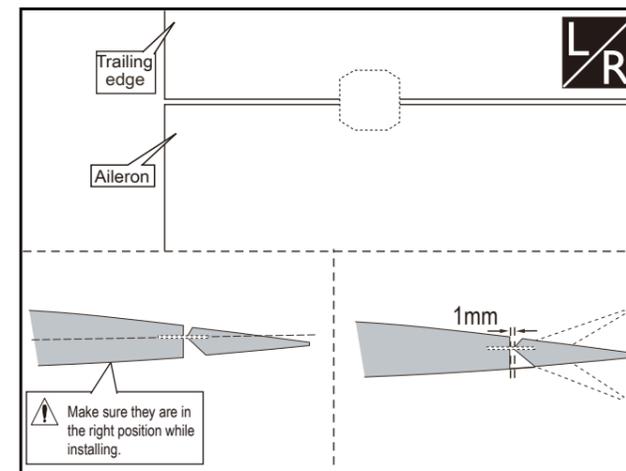
46 Glue the pin hinges to the elevate with CA glue.



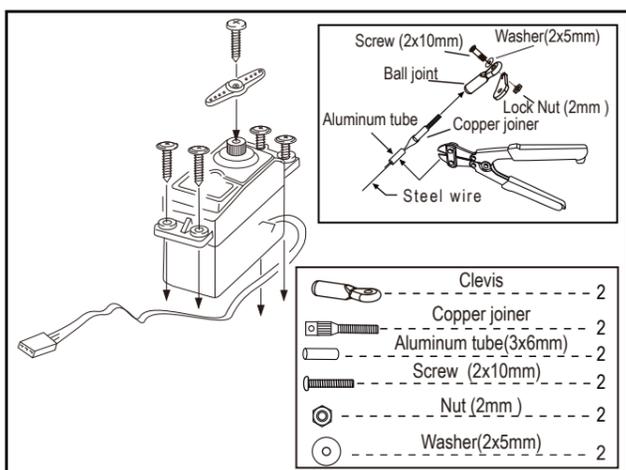
45 Assemble the centre wing to the main fuselage as illustration.



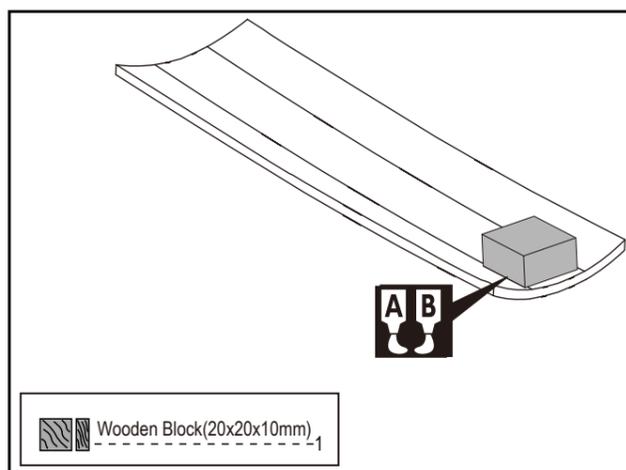
47 Keep some space about 1mm width between the trailing edge and the elevator.



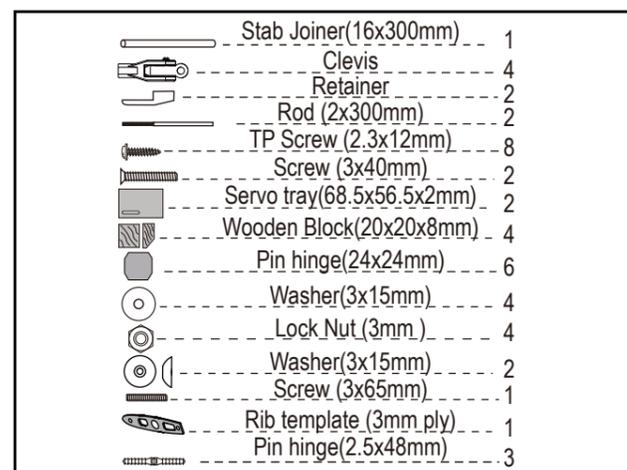
62 Install the servo for the nose landing gear.



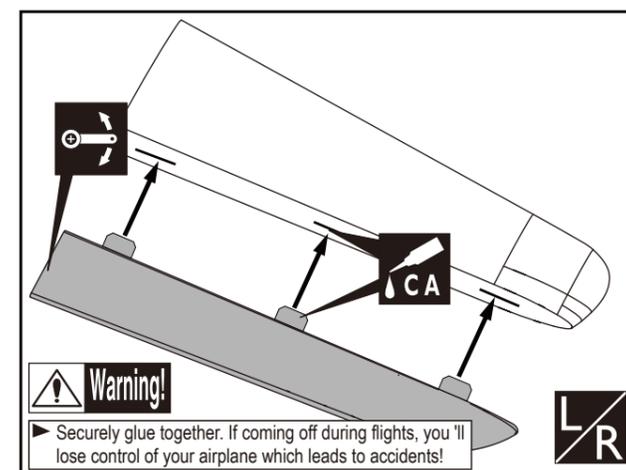
65 Epoxy the wooden block to the appropriate position on the nose gear door.



Warning! Accessory list for the coming installation steps.



48 Glue the elevator to the stabilizer with CA glue.



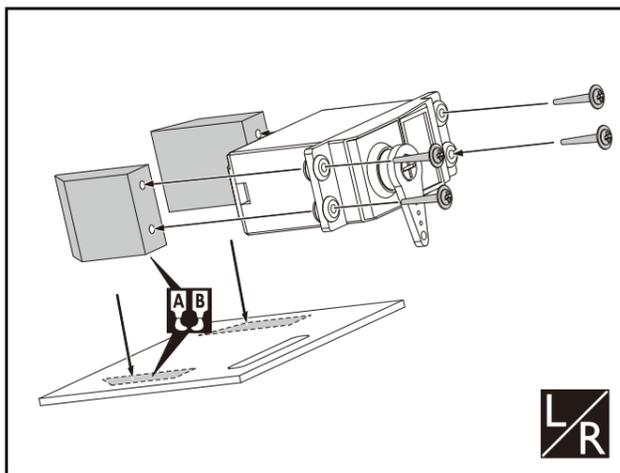
AB Apply epoxy glue. **LR** Assemble left and right sides the same way. **Hand** Pay close attention here! **Warning!** Do not overlook this symbol!

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

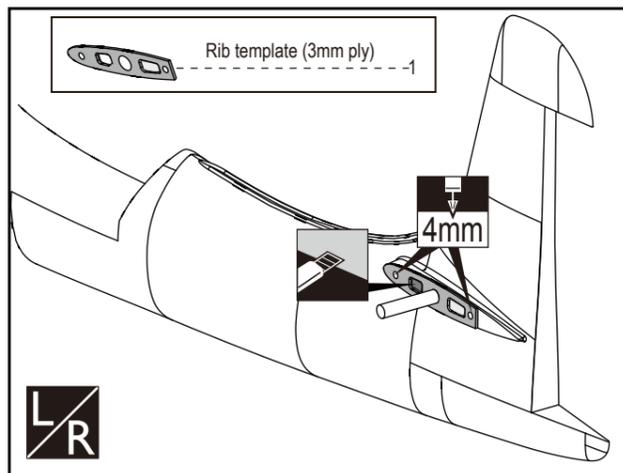
AB Apply epoxy glue. **LR** Assemble left and right sides the same way. **Hand** Pay close attention here! **Warning!** Do not overlook this symbol!

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

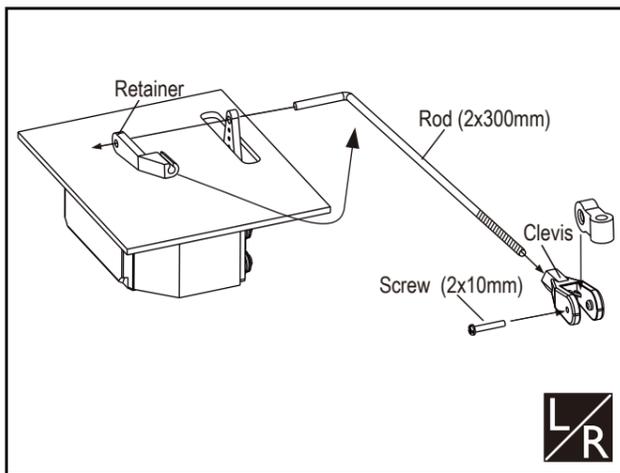
49 Install the servo of the elevator.



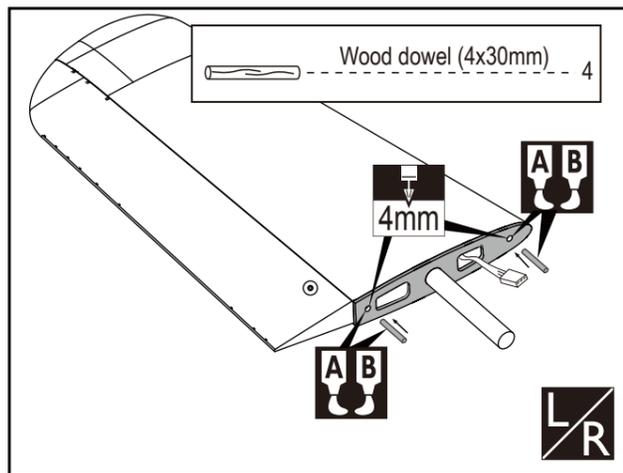
52 According to the rib template drill holes to appropriate position in the fuselage.



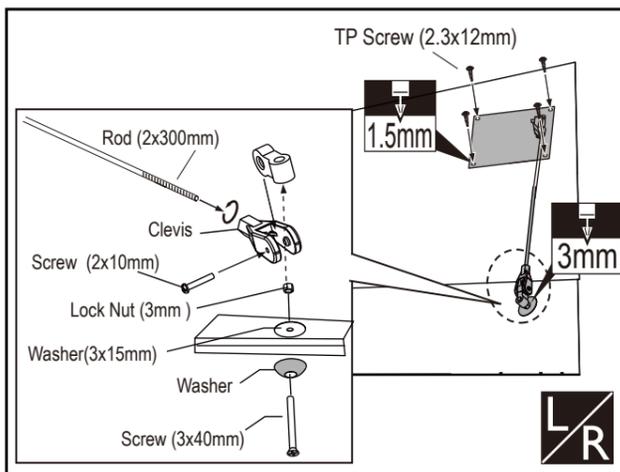
50 Install the nylon control horn and connect the linkage.



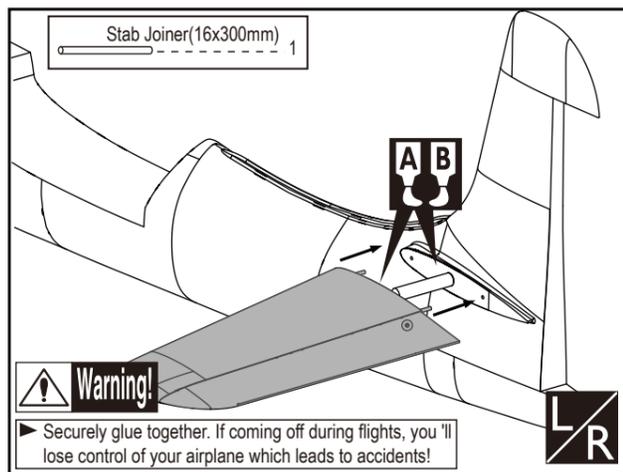
53 According to the rib template drill holes to the stabilizer root and epoxy the wood dowel in them.



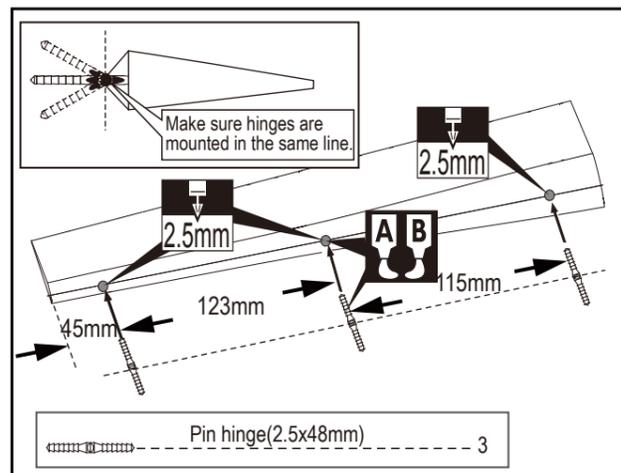
51 Secure the servo in the stabilizer, install the control horn and connect the linkage as illustration.



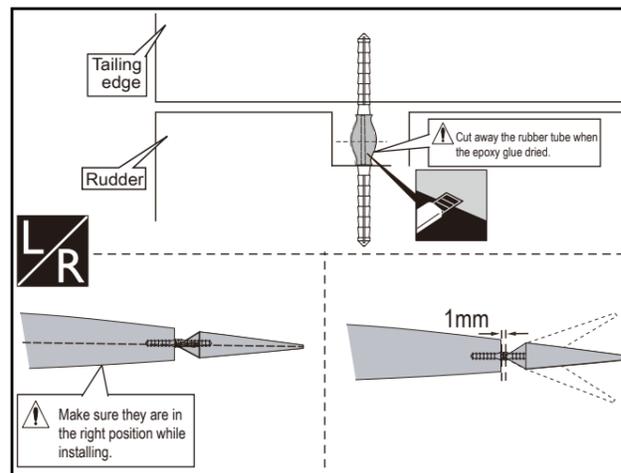
54 Epoxy the stabilizer to the tail fuselage steadily.



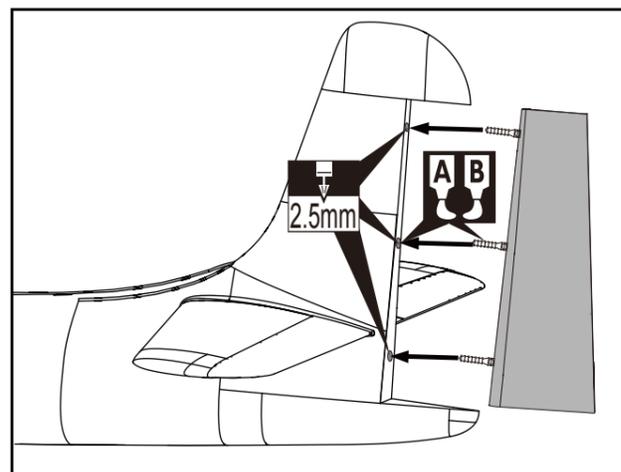
55 Glue the pin hinges to the rudder with CA glue.



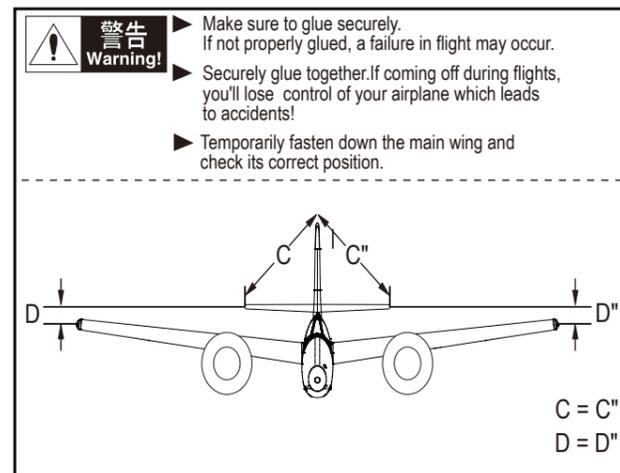
56 Keep some space about 1mm width between the tailing edge and the rudder.



57 Glue the rudder to the vertical tail with CA glue.



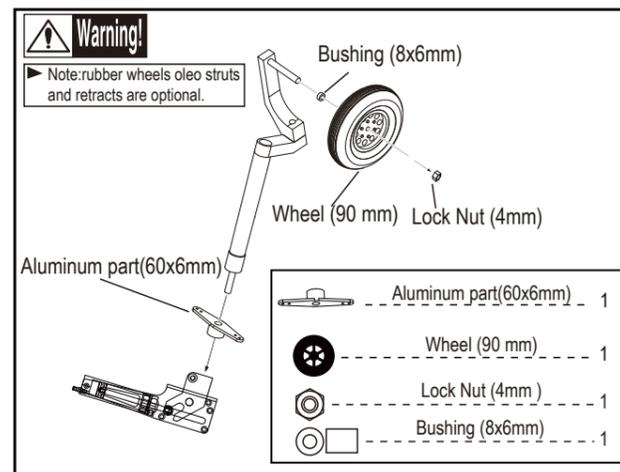
58 The sketch map when the rudder and stabilizer assembled.



Warning! Accessory list for the coming installation steps.

Clevis	4	Wheel (90 mm)	1
Copper joiner	4	Lock Nut (4mm)	1
Aluminum tube (3x6mm)	4	Bushing (8x6mm)	1
TP Screw (2.6x14mm)	4	Aluminum part (60x6mm)	1
Steel wire (0.5x1500mm)	2	TP Screw (2.3x12mm)	8
Wooden Block (20x20x10mm)	2	Hinge	1

59 Assemble the nose wheel to landing gear.



A B 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). **Hand icon** Ensure smooth non-binding movement while assembling. **Scissors icon** Cut off shaded portion.

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

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