

Before start ,please carefully read the explanations!

P-39 Airacobra



Specification:

Length: 1788mm(70.4")
Wing span: 2040mm(80.3")
Wing area: 78.5sq.dm(8.5sq.ft)
Wing loading: 93g/sq.dm(30.5oz/sq.ft)
Flying weight: 7.3kg(16.1bs)
Radio: 6ch & 8servos
Engine: 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.

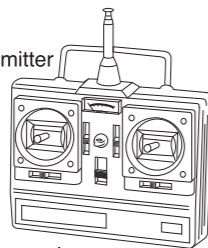
1 A minimum 6 channel radio for airplanes (with 8 servos), and dry batteries.

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.

12 AA-size Batteries



A minimum 6 channel transmitter for airplanes.

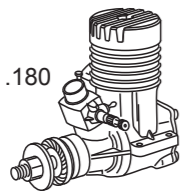
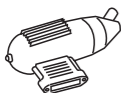


For handling the radio properly, refer to its instruction manual.

2 Engine and Muffler

Model Airplane Engine 4-cycle .180

Muffler



Glow Plug



3 Propeller Spinner

Purchase a propeller that will match your engine.



Spinner



18"X10

4

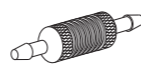
Sponge Sheet



Silicone Tube



Fuel Filter

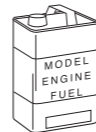


5

Required for engine starting:

Glow engine fuel only.

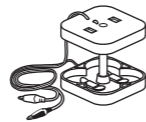
WARNING: Normal gasoline cannot be used with glow engines.



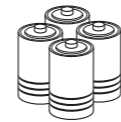
Fuel Pump



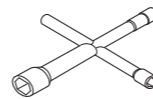
Booster Cord



4 D-size Batteries



Plug Wrench



6

Glue Instant Glue



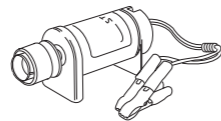
Epoxy Glue



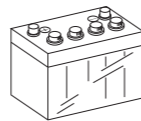
7

Other equipment for enhancing airplane operation & performance

Engine Starter



12V Battery (for starter)



9

Optional parts: rubber wheel with metal hub.

TOOLS REQUIRED (Purchase separately!)

Sharp Hobby Knife



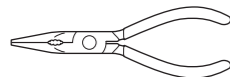
Phillips Screw Driver (l, m, s)



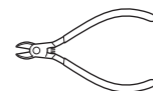
Awl



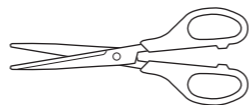
Needle Nose Pliers



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:

4 We strongly recommend you use the thread lock for all the screws when you build your model.

AB Apply epoxy glue.

2mm Drill holes with the specified diameter (2mm).

✂ Cut off excess.

☞ Pay close attention here!

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

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

☞ Cut off shade portion.

↻ Ensure smooth non-binding movement while assembling.

X Must be purchased separately!

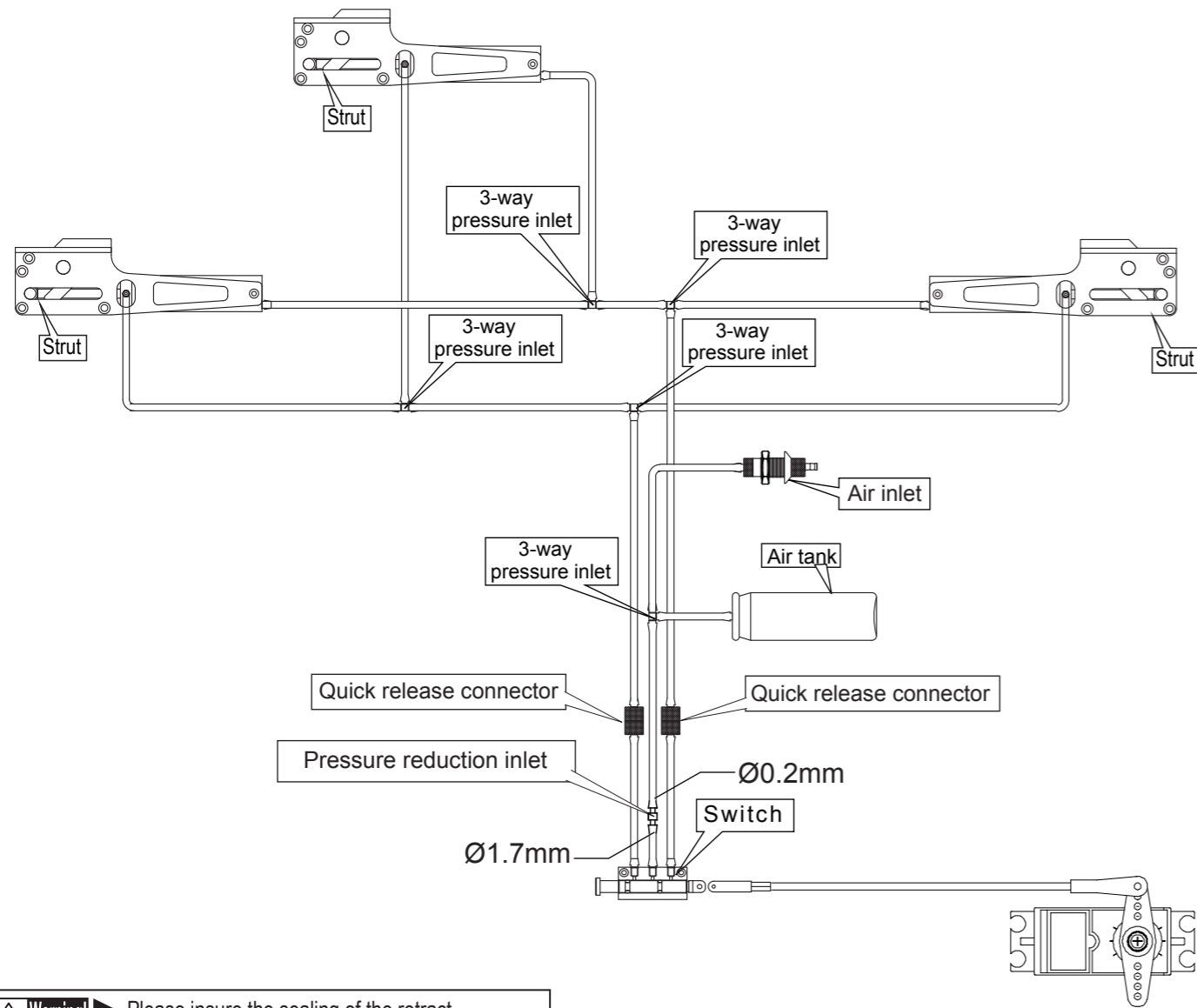
Do not overlook this Symbol!



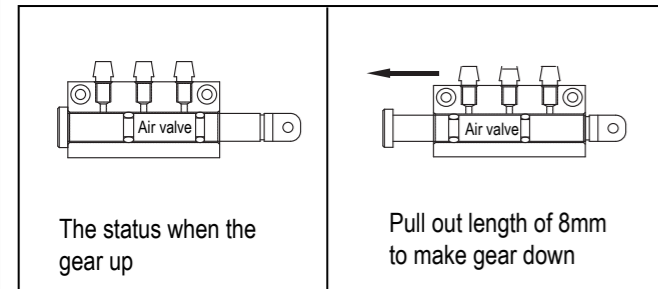
Warning!

Three wheel retract system

Warning! Make sure to assemble retracts as instructed below.



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

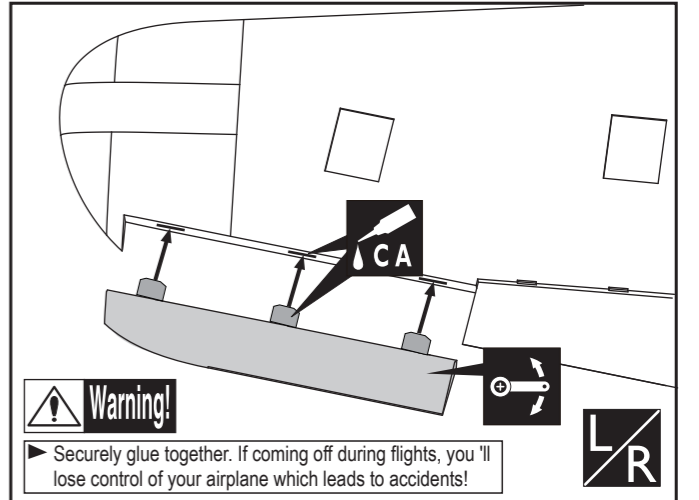


TP Screw(2.6x14mm) 2	Switch 1
Retainer 1	Air line (3000mm) 1
Clevis 1	3-way pressure inlet 5
Rod (2X300mm) 1	Air tank 1
Strut (90°) 1	Air inlet 1
	Quick release connector 2
	Strut (90°) 2

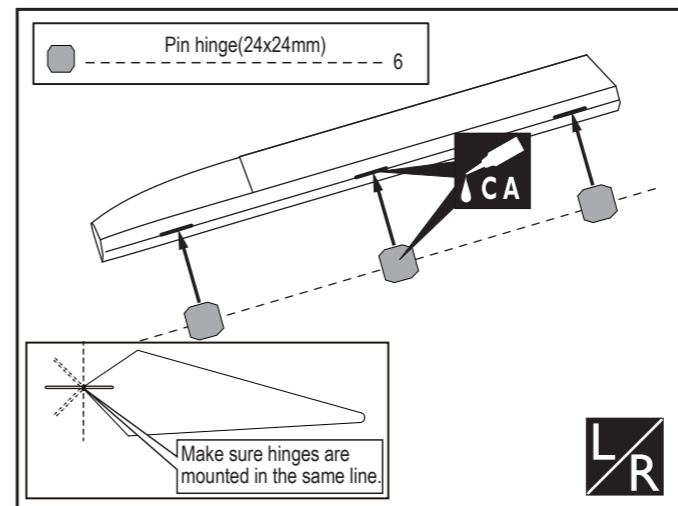
Accessory list for the coming installation steps.

Clevis	2
Retainer	2
Rod (2x300mm)	2
TP Screw (2.3x12mm)	8
Screw (3x40mm)	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

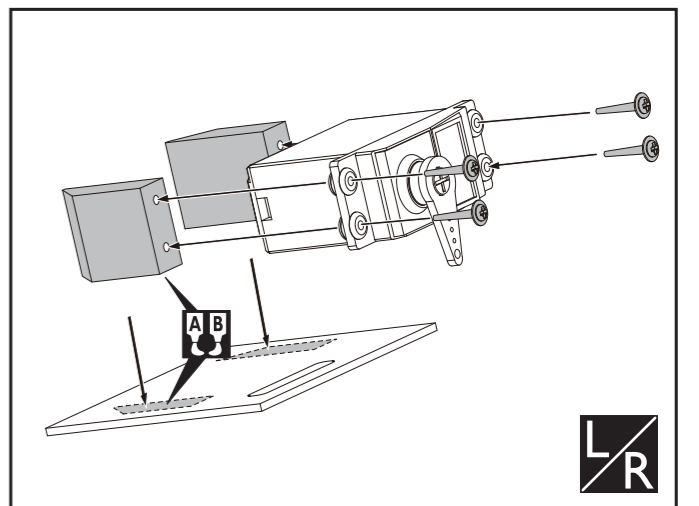
3 Assemble the aileron to main wing with instant type AB glue. Be careful to ensure the moving parts of the hinges are able to move freely.



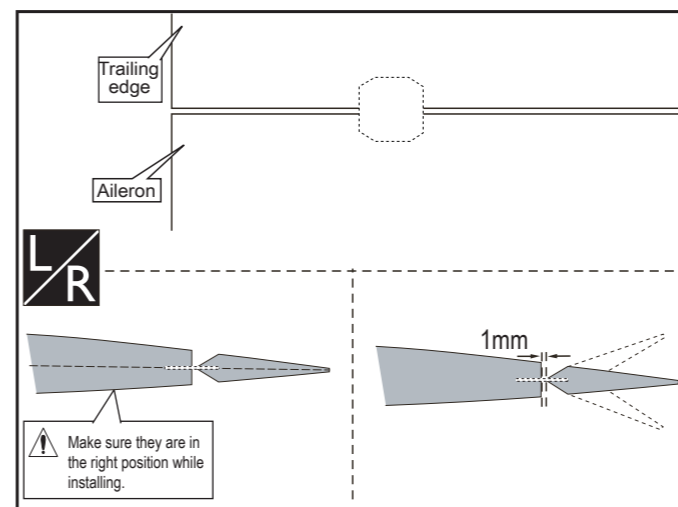
1 Apply instant AB glue to aileron and pin hinge.



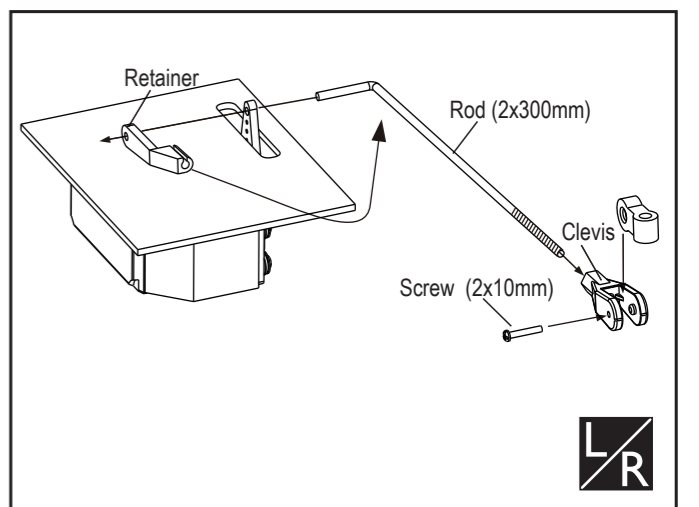
4 Install the servo as the illustration below



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



5 Install the nylon control horn and connect the linkage.

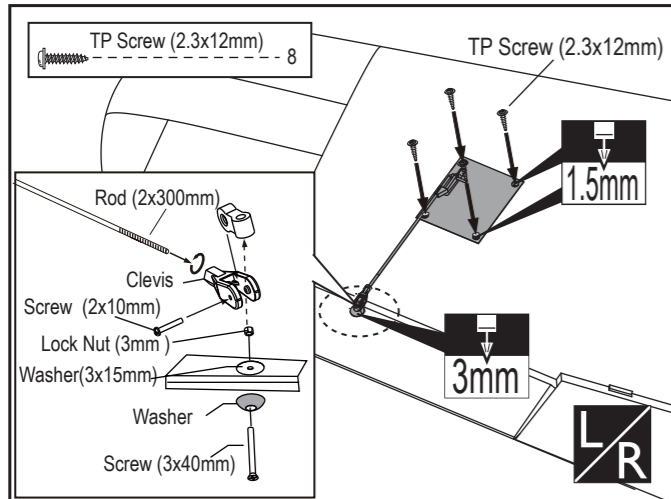


AB Apply epoxy glue.	LR Assemble left and right sides the same way.	Hand Pay close attention here!
CA Apply instant glue (CA glue, super glue).	Arrow Ensure smooth non-binding movement while assembling.	Scissors Cut off shaded portion.

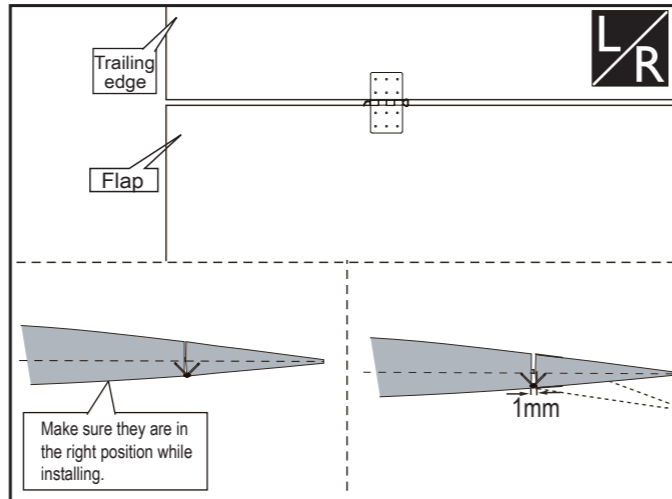
Do not overlook this symbol!

Warning!

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



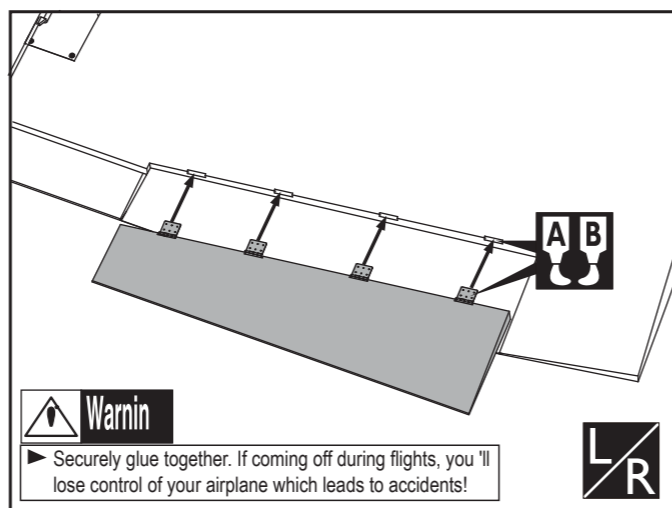
8 Keep some space about 1mm width between trailing edge and flap.



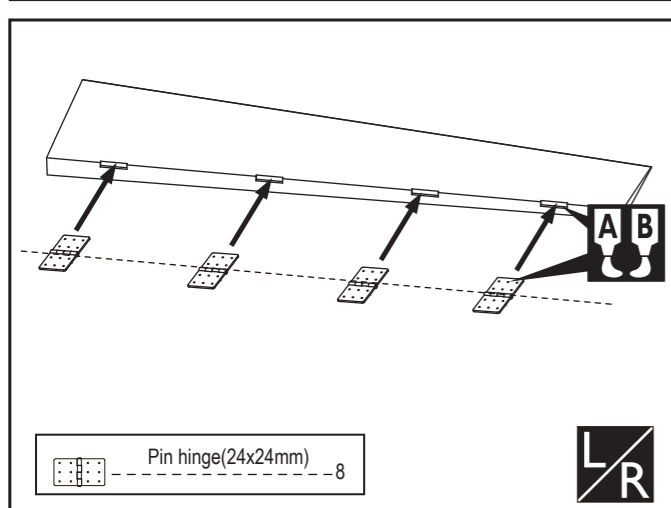
Warning! Accessory list for the coming installation steps.

- Clevis ----- 2
- Retainer ----- 2
- Rod (2x300mm) ----- 2
- TP Screw (2.3x12mm) ----- 8
- Screw (3x30mm) ----- 2
- Servo tray(68.5x56.5x2mm) ----- 2
- Wooden Block(20x20x8mm) ----- 4
- Pin hinge(24x24mm) ----- 8
- Washer(3x15mm) ----- 2
- Lock Nut (3mm) ----- 2
- Washer(3x15mm) ----- 2

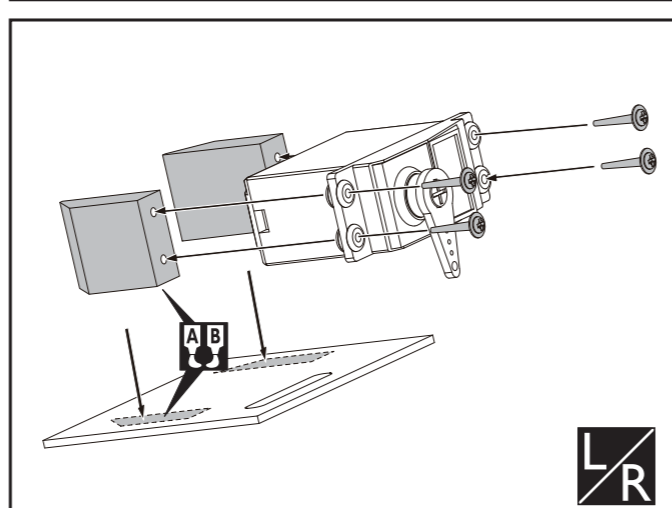
9 Epoxy the flaps to the wings as illustration.



7 Epoxy the pin hinges to the flap.

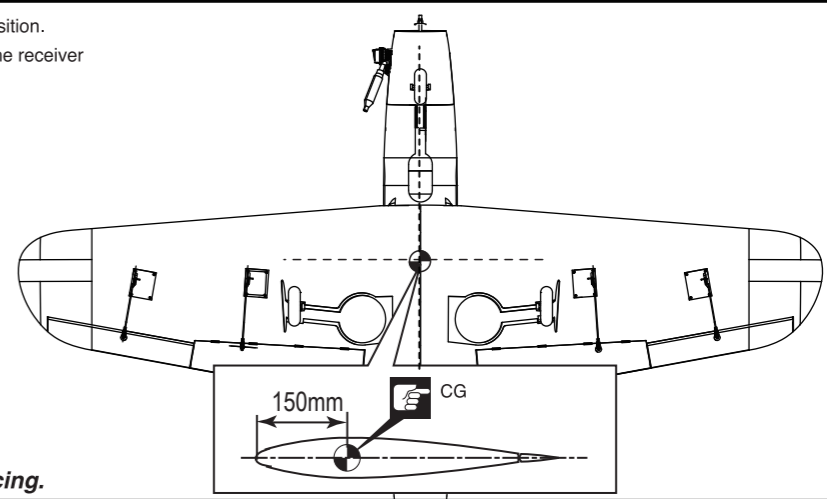


10 Install the servo as the illustration below



76 The centre of the Gravity.

Warning! 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.

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.

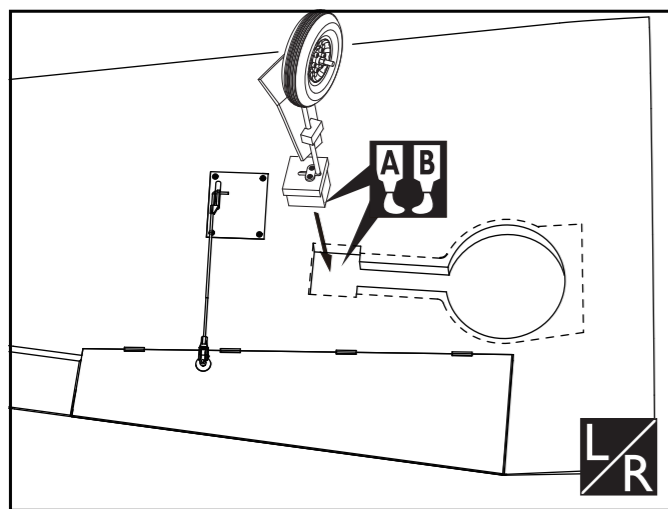
Do not overlook this symbol!

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

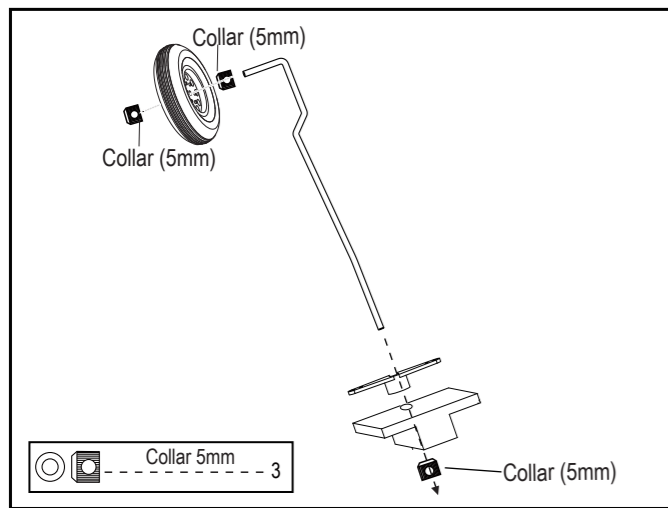
Apply instant glue (CA glue, super glue). Ensure smooth non-binding movement while assembling. Cut off shaded portion.

Do not overlook this symbol!

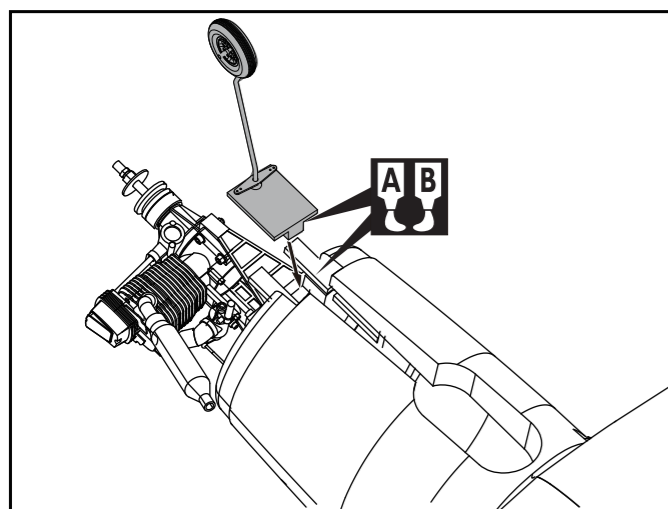
70 Epoxy the landing gear to the wing steadily.



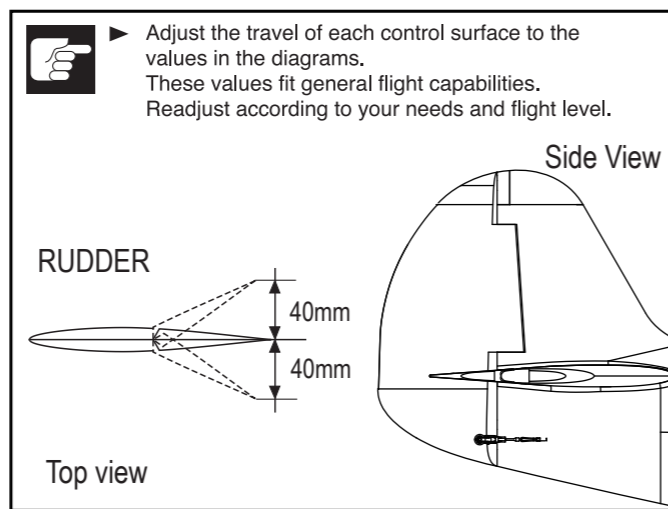
71 Install the wheel to the fixed landing gear.



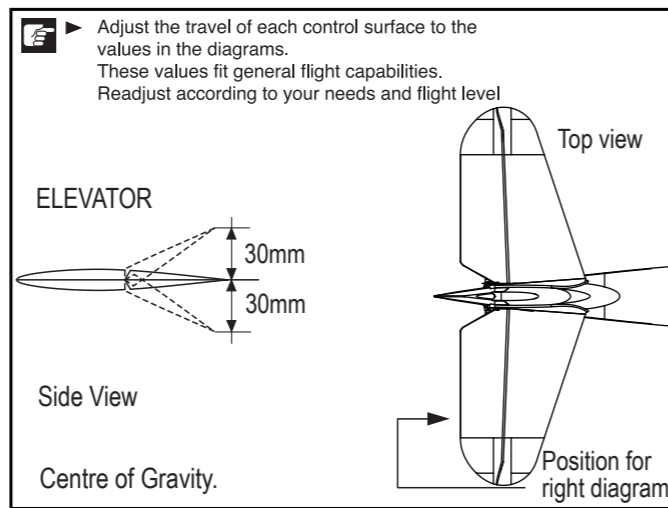
72 Epoxy the fixed landing gear to the relevant position in the fuselage.



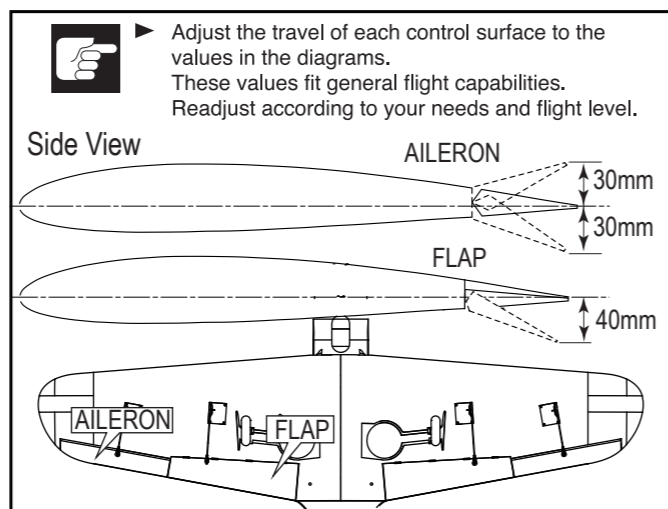
73 Adjustment.



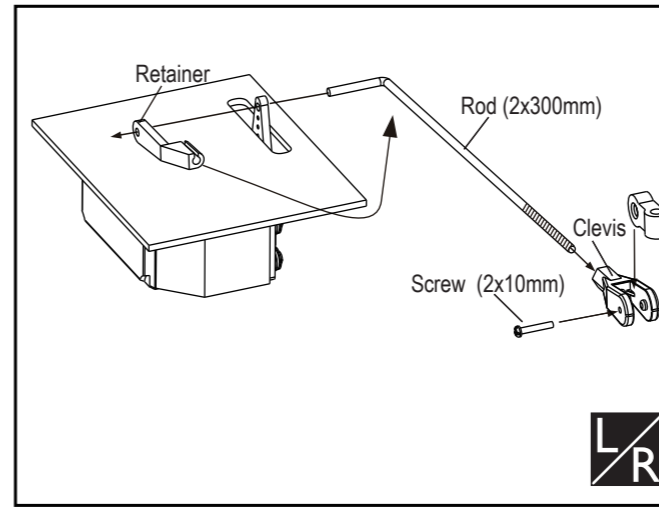
74 Adjustment.



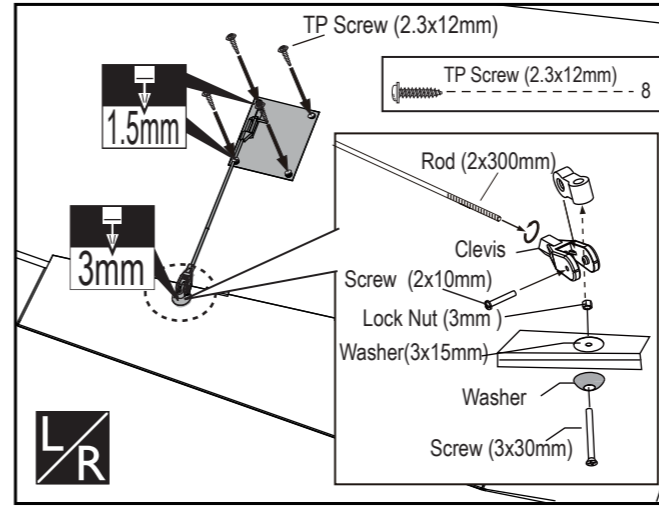
75 Adjustment.



11 Install the nylon control horn and connect the linkage.



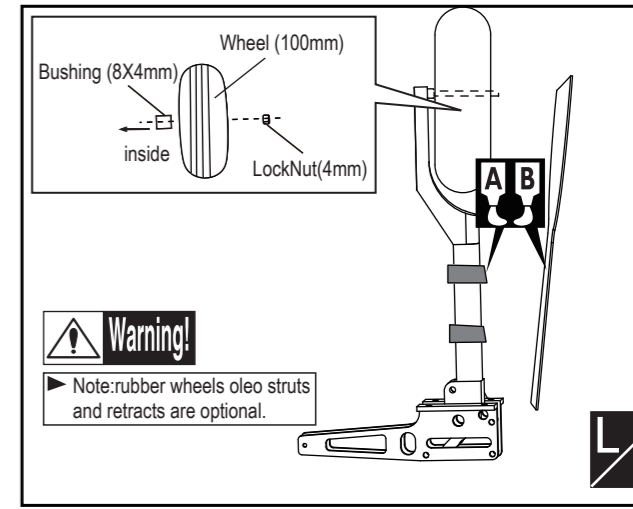
12 Secure the servo. Install the nylon control horn and connect the linkage.



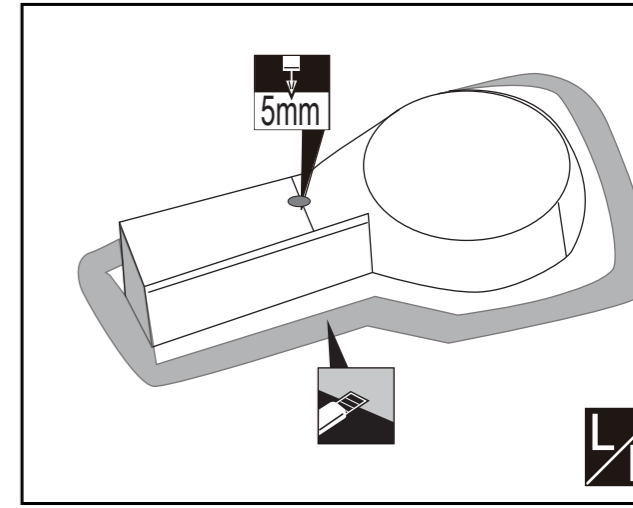
Accessory list for the coming installation steps.

Wheel (100mm)	2	PVC part	2
Bushing (8x4mm)	2	Main wing joiner	1
LockNut (4mm)	2	Rib template (2mm ply)	1
TP Screw (3x20mm)	8	Screw (6x50mm)	2
Washer (3x6mm)	8	Blind Nut (6mm)	2
Wood dowel (6x30mm)	2	Reinforcement Plate	1
Wood dowel (6x50mm)	2		

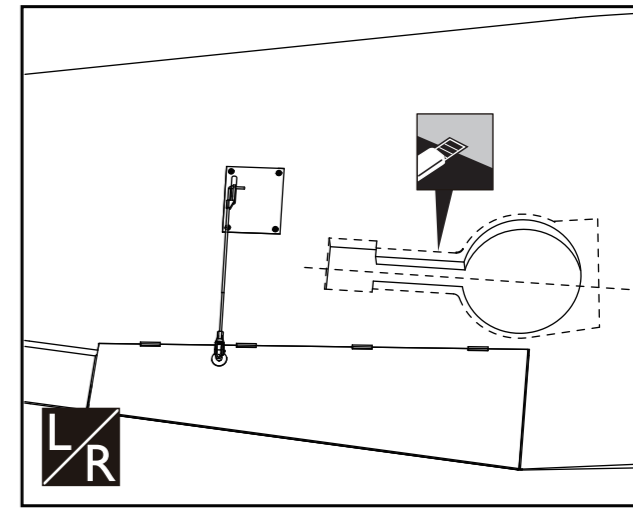
13 Mount the gear door and the wheel to the retract.



14 Cut away the surplus parts of plastic cover carefully along the shaded line.



15 Trim the covering for assembling the wheel well carefully.



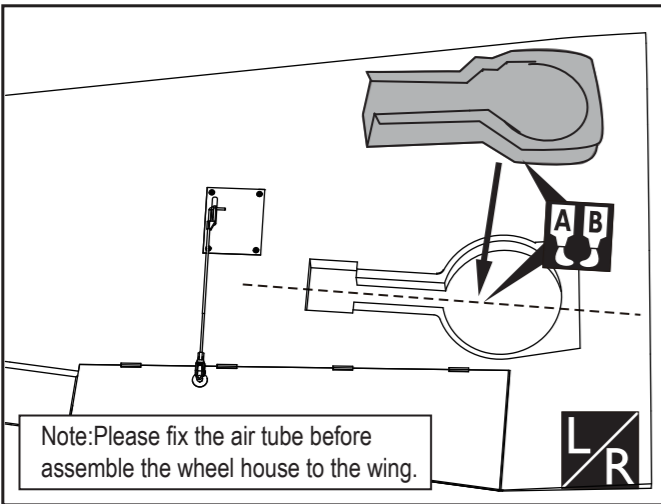
A B Apply epoxy glue. **L/R** Assemble left and right sides the same way. **Hand icon** Pay close attention here! **Warning!** Do not overlook this symbol!

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

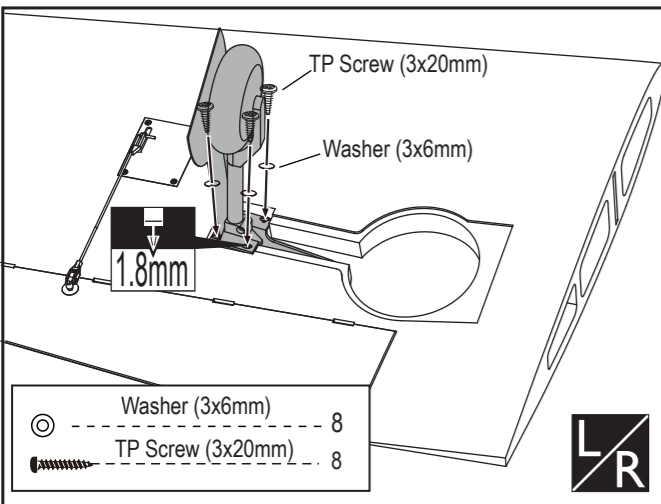
A B Apply epoxy glue. **L/R** Assemble left and right sides the same way. **Hand icon** Pay close attention here! **Warning!** Do not overlook this symbol!

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

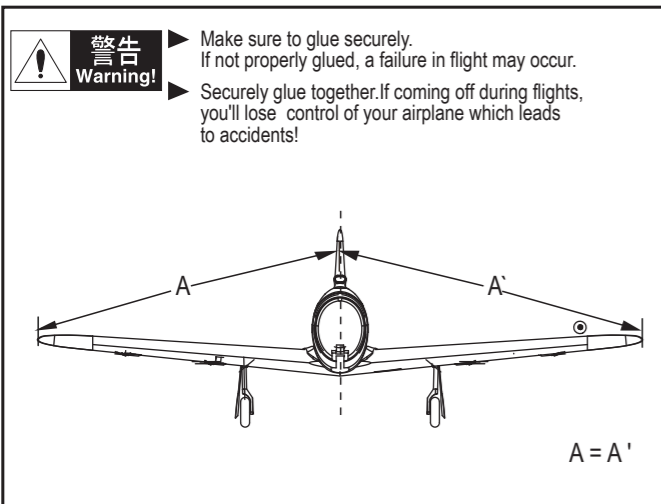
16 Epoxy the wheel house to the wings carefully.



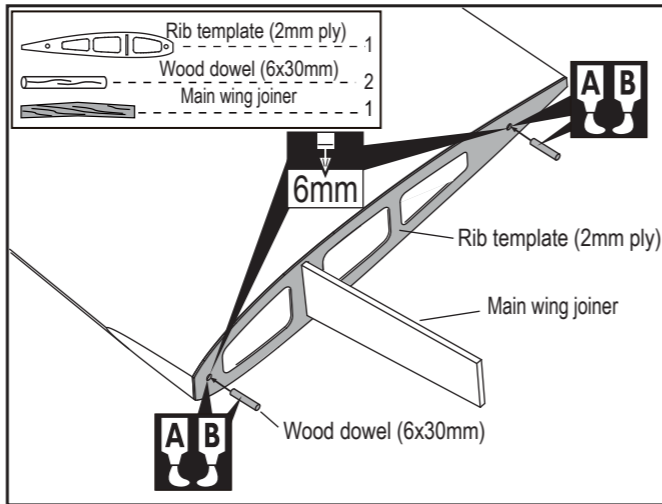
17 Assemble the landing gear to the wheel house.



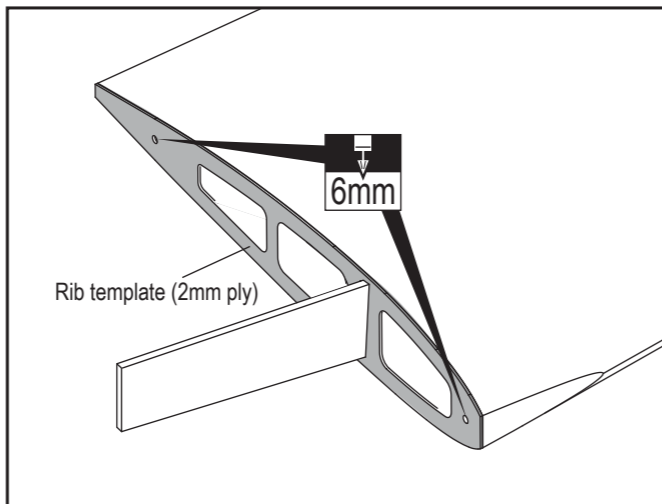
18 The sketch map when the main wing assembled completely.



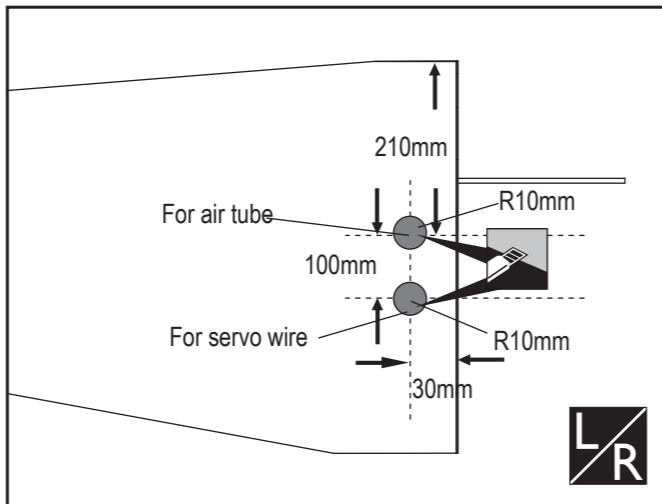
19 According to the rib template drill holes in one wing and epoxy wood dowel in them.



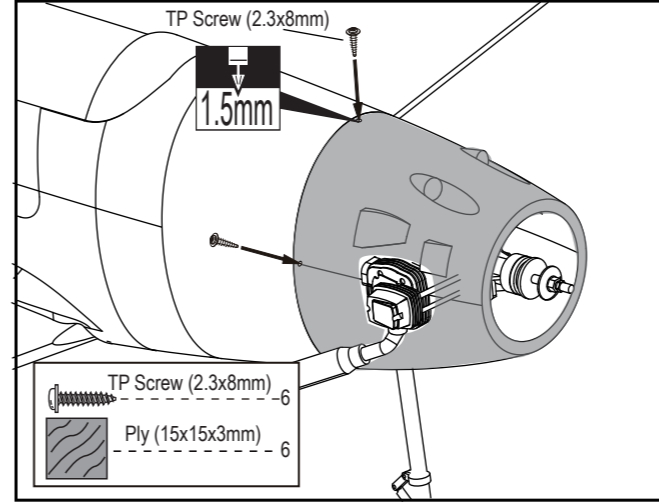
20 According to the rib template drill holes to another main wing.



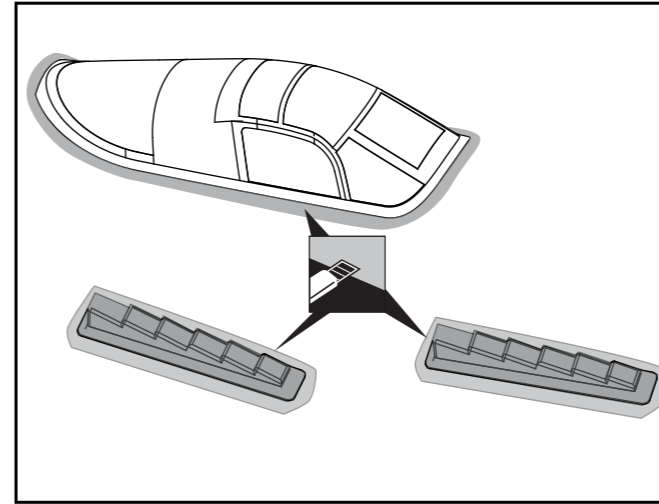
21 Trim holes in the appropriate position in the wings and drag the servo wire and the air tube out.



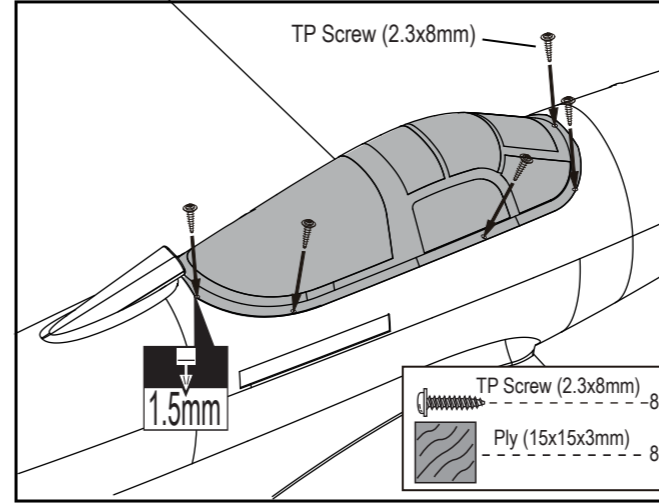
65 Epoxy plies to relevant position inside the fuselage as below for assembling the cowling.



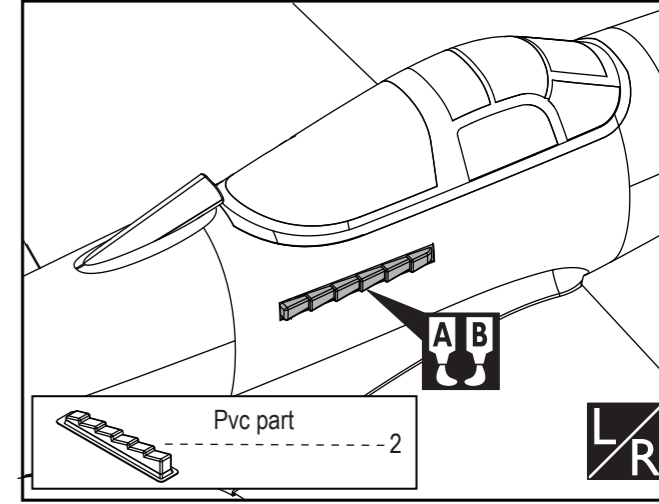
66 Cut the surplus shaded portion carefully off the canopy and exhaust.



67 Epoxy plies inside the fuselage under the cowling and mount the canopy with TP screw as illustration.



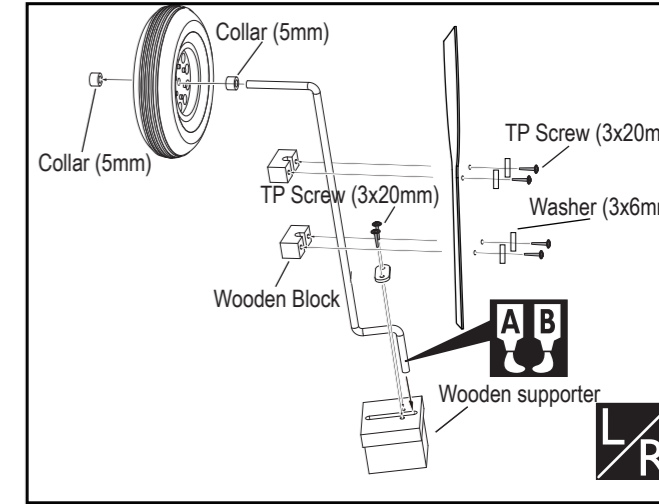
68 Epoxy the exhaust to appropriate position in the fuselage as illustration.



Accessory list for the coming installation steps.

- Wheel (100mm) - 2
- Wheel (90mm) - 1
- Collar (5mm) - 7
- Wooden supporter (46x28x14mm) - 1
- Wooden supporter (41.5x28x26mm) - 2
- Landing gear (5mm) - 1
- Landing gear (5mm) - 1
- TP Screw (2.3x12mm) - 4
- TP Screw (3x20mm) - 12
- Landing gear straps - 2
- Aluminum part (60x6mm) - 1
- Wooden Block (24x20x12mm) - 2
- Wooden Block (24x15x12mm) - 2
- Gear door - 2

69 Assemble the wheel and gear door to landing gear.



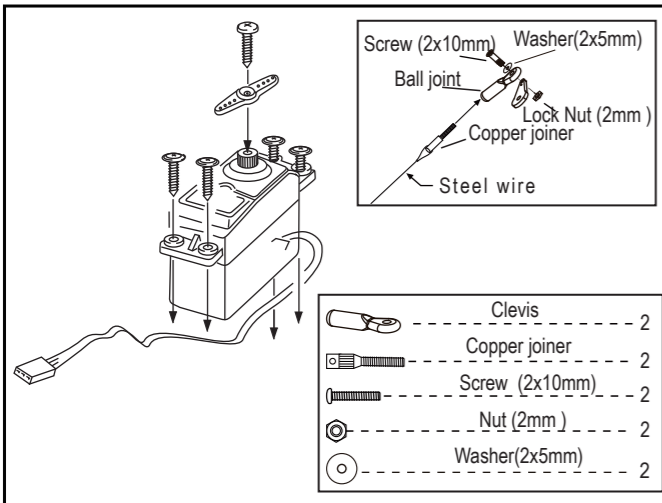
Apply epoxy glue.
 Assemble left and right sides the same way.
 Pay close attention here!
 Do not overlook this symbol!

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

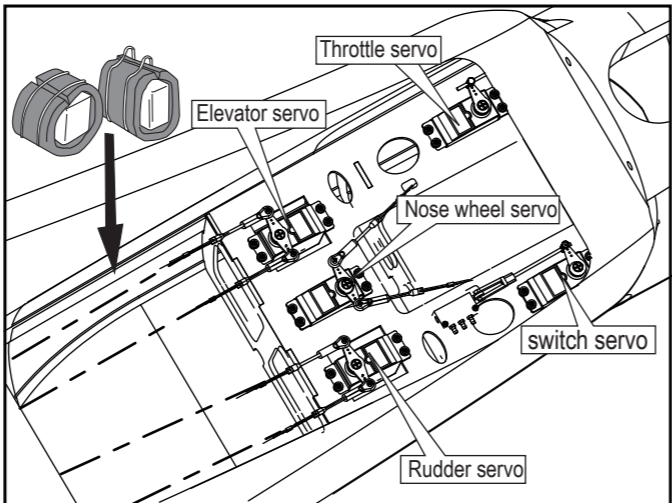
Apply epoxy glue.
 Assemble left and right sides the same way.
 Pay close attention here!
 Do not overlook this symbol!

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

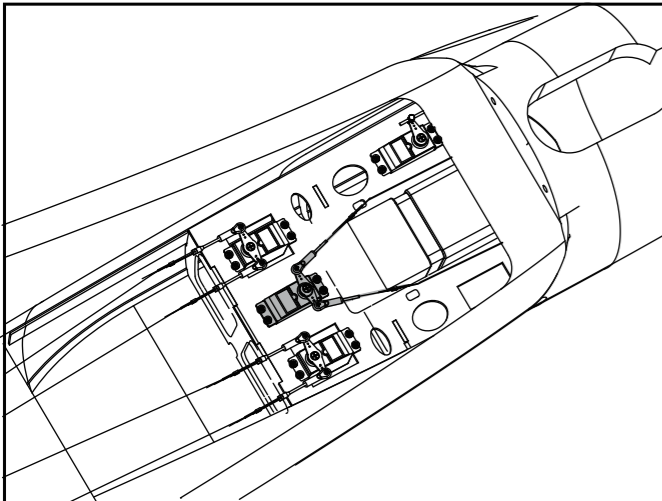
60 Install the servo.



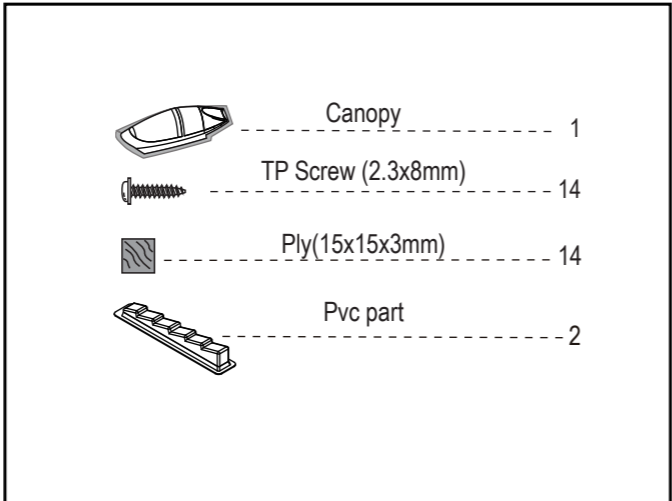
63 The servos installation finished sketch map.



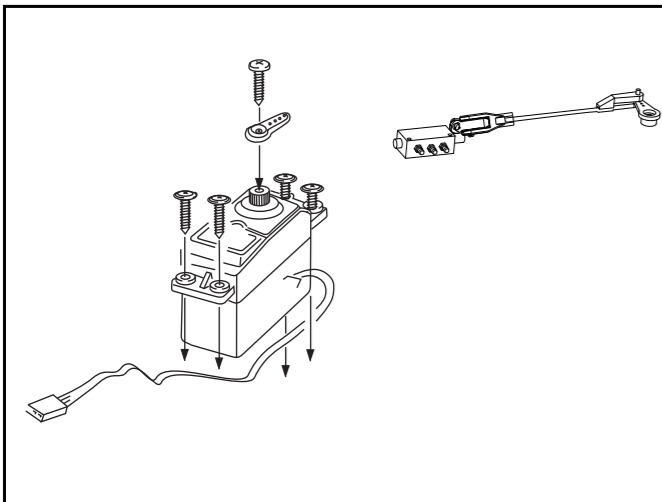
61 Mount the servo of nose wheel to the fuselage.



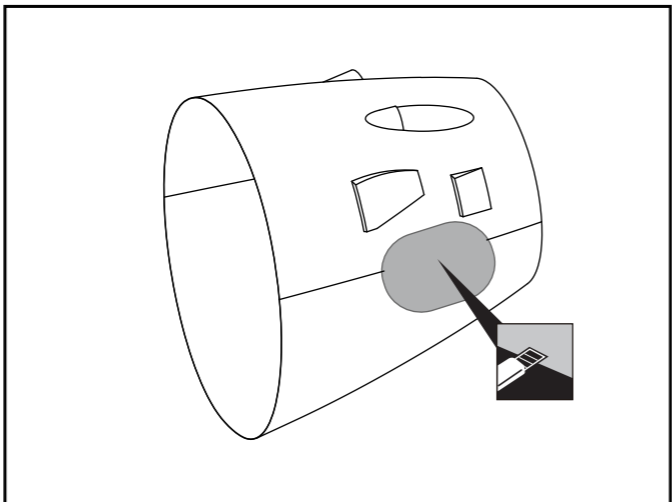
Warning! Accessory list for the coming installation steps.



62 Install the servo of switch.



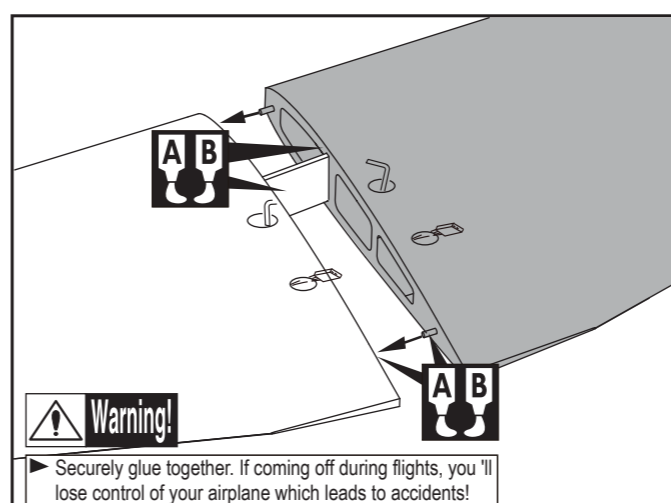
64 Trim the cowling for engine and muffler.



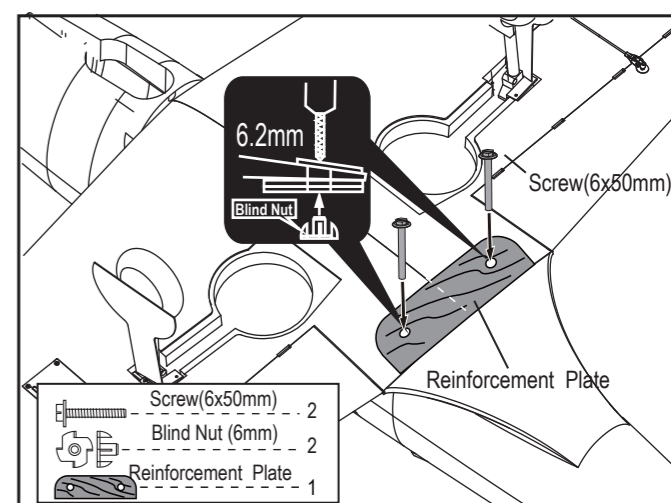
AB Apply epoxy glue. **LR** Assemble left and right sides the same way. **Hand icon** Pay close attention here! **Warning!** Do not overlook this symbol!

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

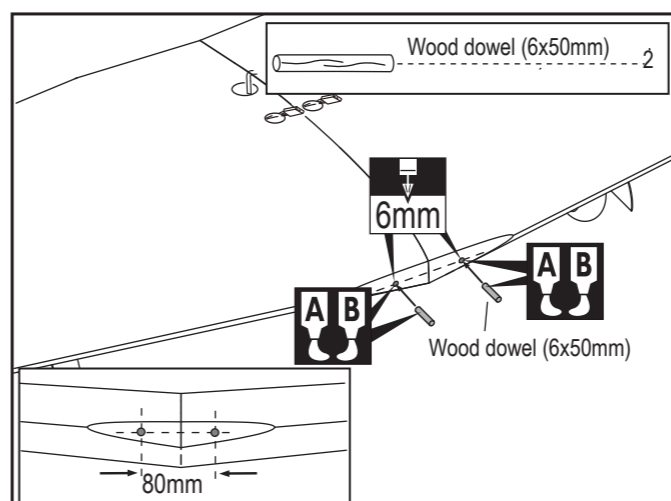
22 Epoxy the main wing hardly together with wing joiner.



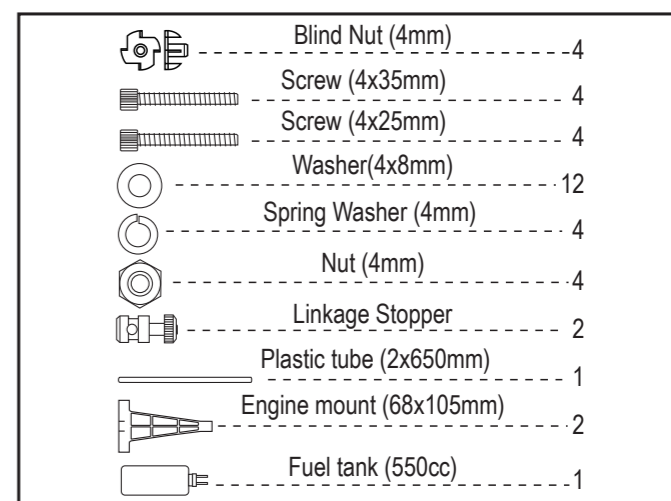
25 Assemble the wings to the fuselage with screw and blind nut as below.



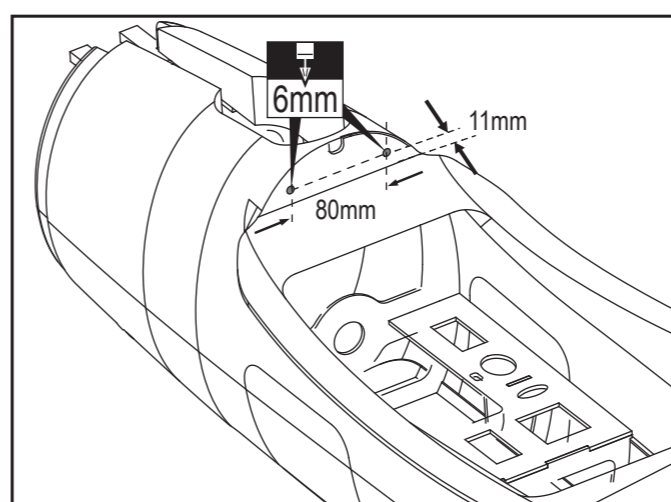
23 Drill holes to appropriate position in the front of mid wing and epoxy wood dowel in them.



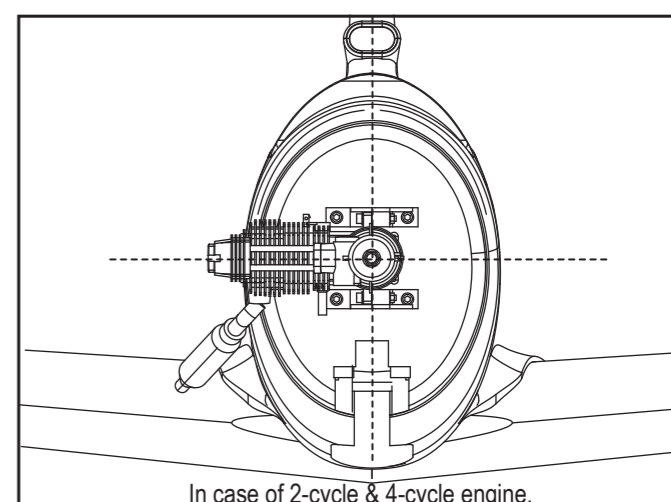
Warning! Accessory list for the coming installation steps.



24 Drill holes to relevant position in the fuselage.



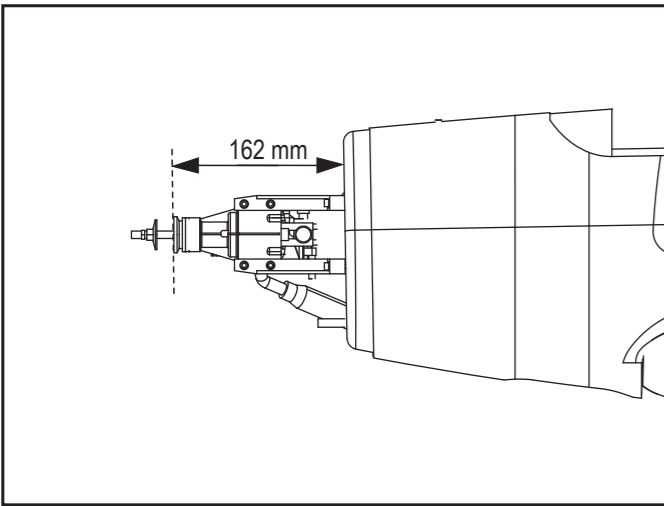
26 The front view of the engine installation finished.



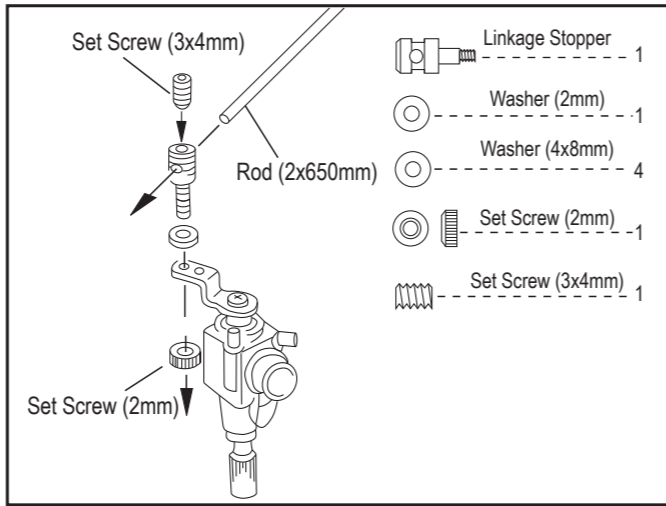
AB Apply epoxy glue. **LR** Assemble left and right sides the same way. **Hand icon** Pay close attention here! **Warning!** Do not overlook this symbol!

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

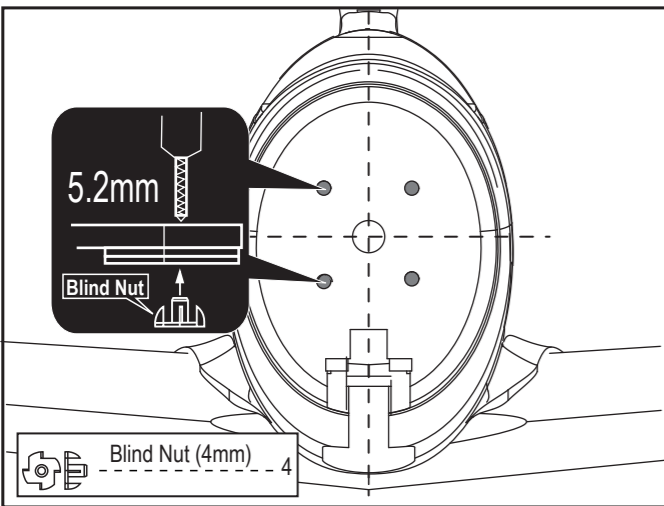
27 The side sketch map of the engine installation finished.



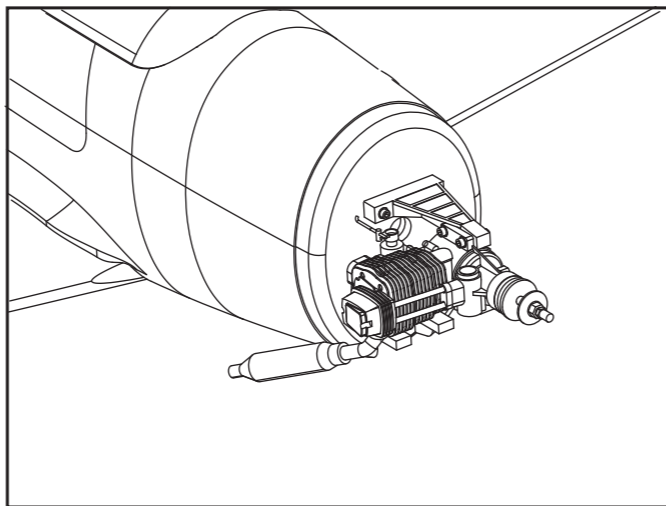
30 Assemble the accelerator push rod to the engine.



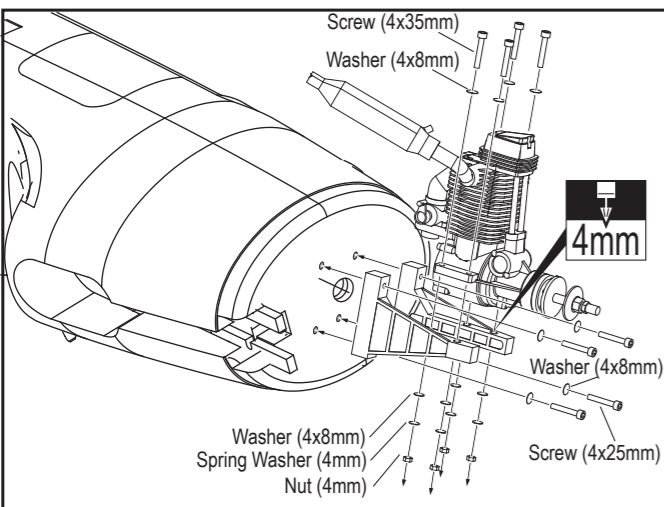
28 Drill 4 holes and set blind nut in appropriate position in the firewall before install the engine.



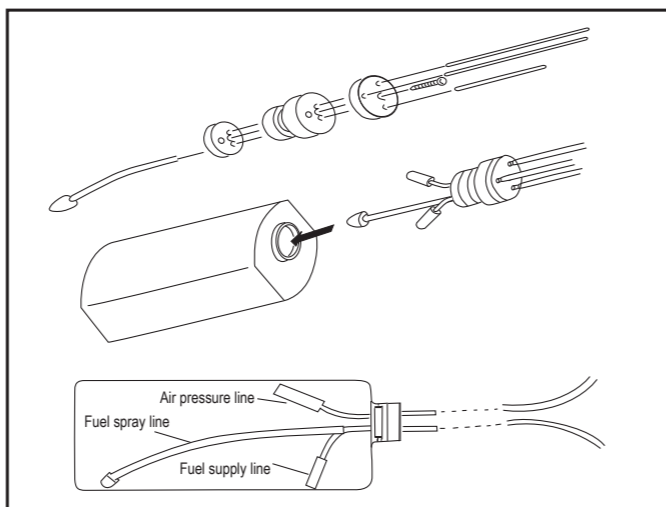
31 Engine installation finished sketch map.



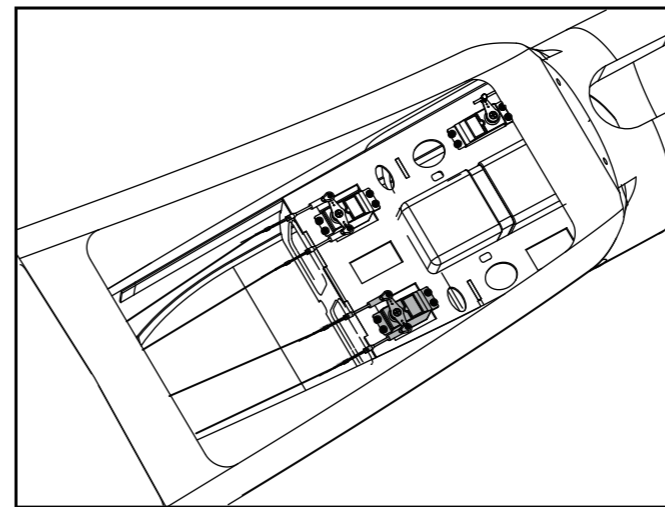
29 Install the engine carefully.



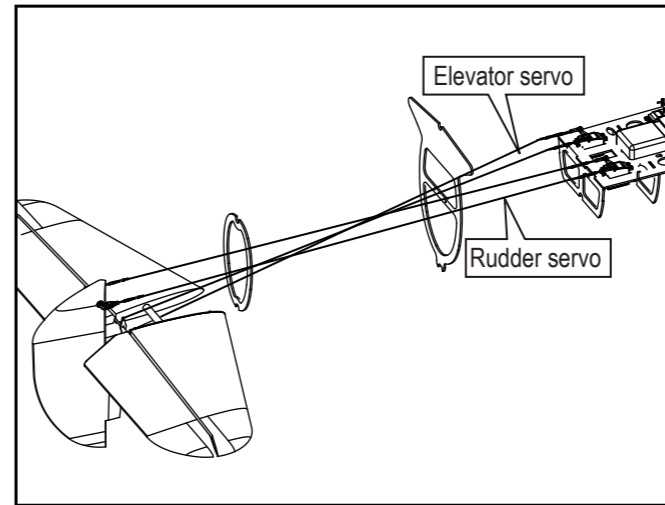
32 Assembly of the fuel tank.



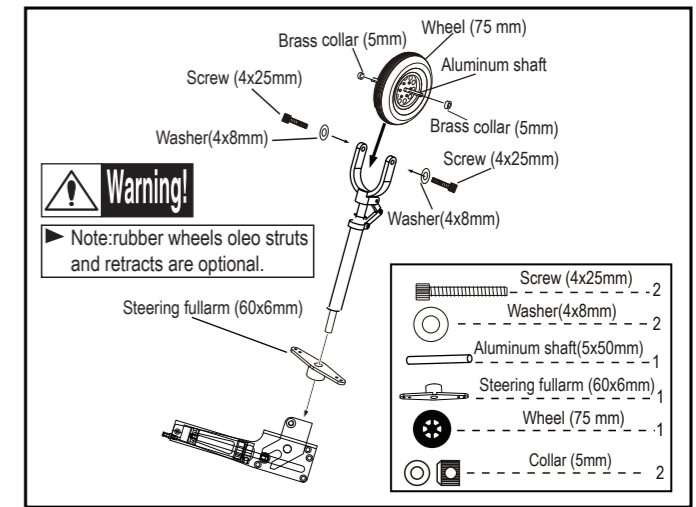
55 Install the rudder servo to appropriate position in the fuselage.



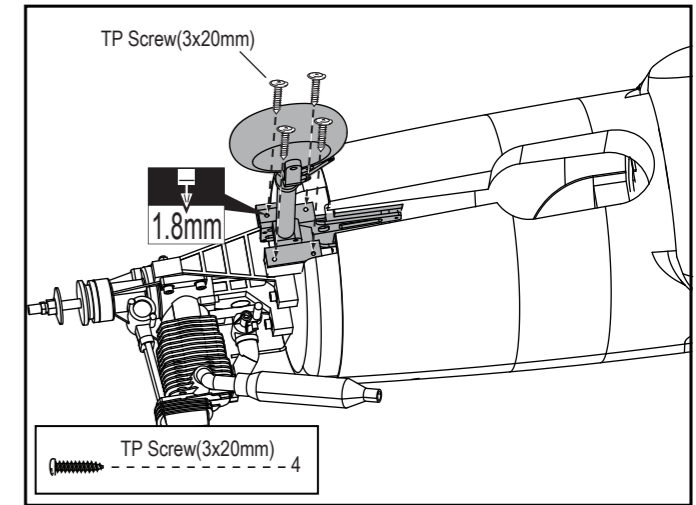
56 The sketch map of the linkages for the rudder and elevator in the fuselage.



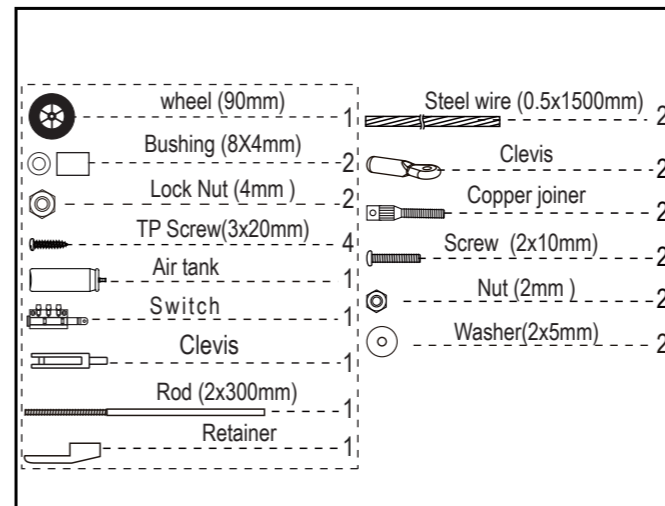
58 Assemble the wheel and oleo strut to the retract as illustration.



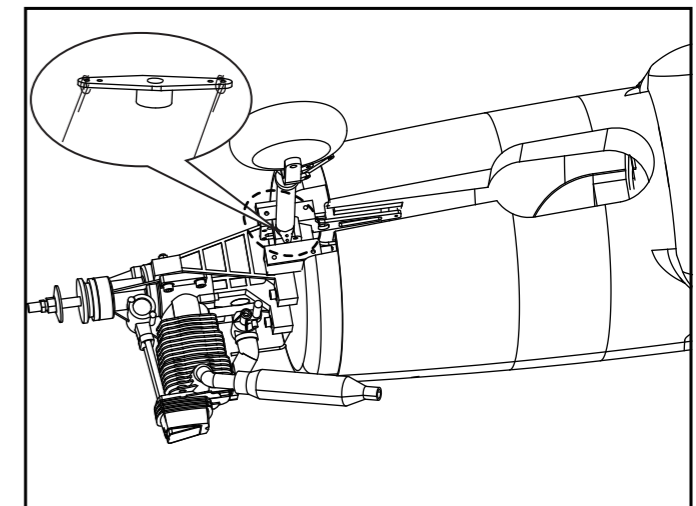
59 Assemble the retract to the fuselage with TP Screw as illustration.



Warning! Accessory list for the coming installation steps.



60 Assemble the steel wire to the nose arm.



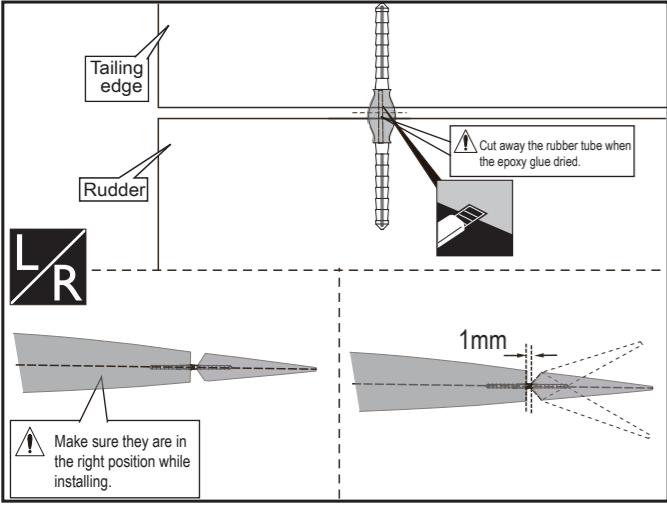
Apply epoxy glue.
 Assemble left and right sides the same way.
 Pay close attention here!
 Do not overlook this symbol!

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

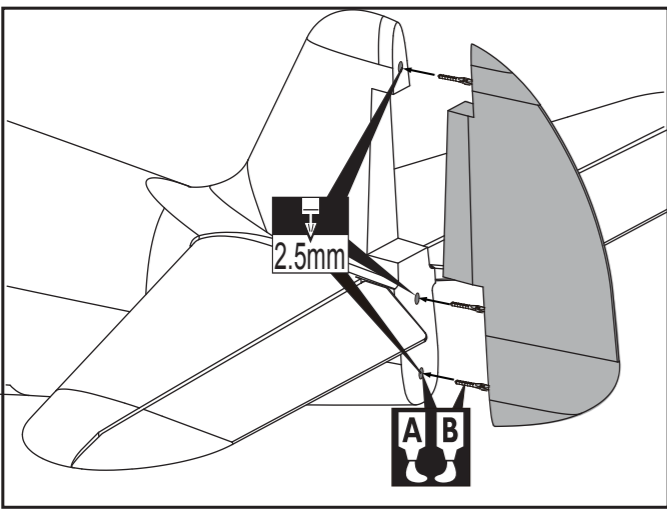
Apply epoxy glue.
 Assemble left and right sides the same way.
 Pay close attention here!
 Do not overlook this symbol!

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

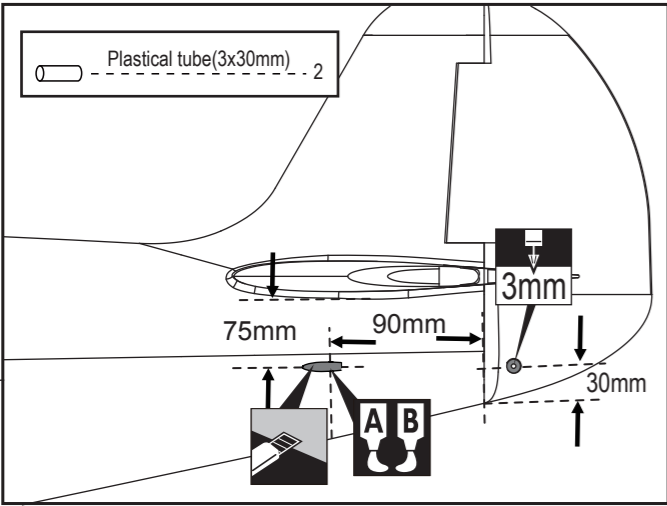
49 Keep some space about 1mm width between the tailing edge and the rudder.



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



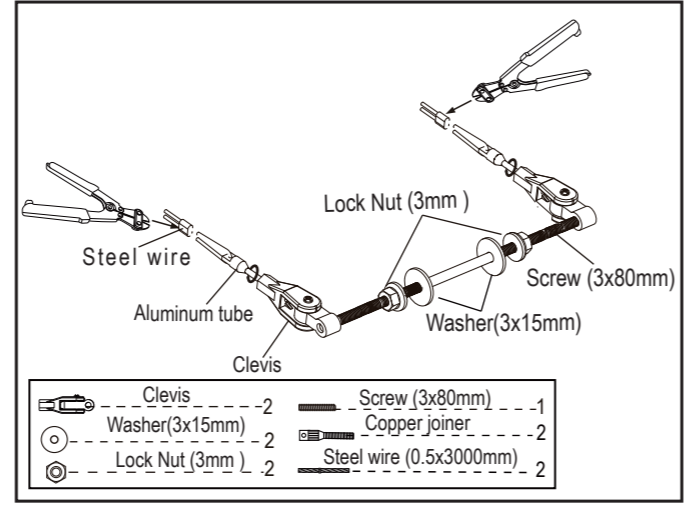
51 Drill a small hole to appropriate position in the fuselage for installing the plastical tube and a hole in the rudder for assembling the rudder shaft.



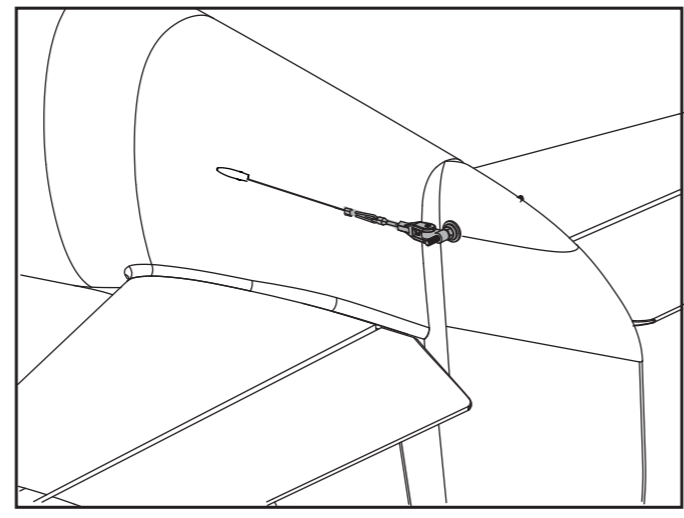
AB Apply epoxy glue. **LR** Assemble left and right sides the same way. **Hand icon** Pay close attention here! **Warning!** Do not overlook this symbol!

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

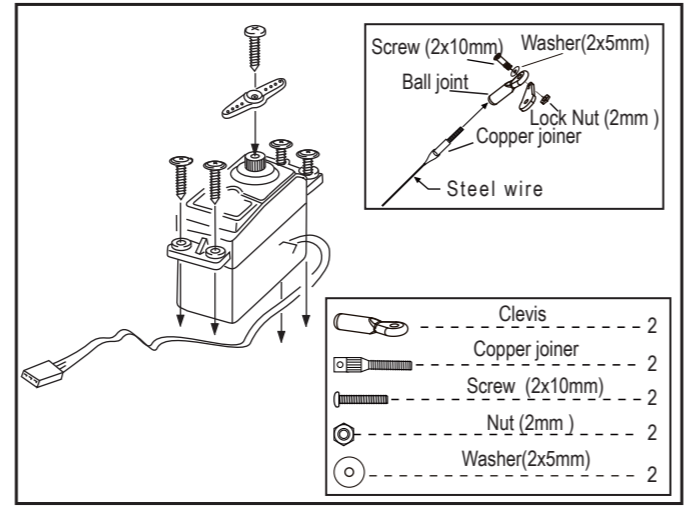
52 The sketch map after the rudder shaft assemble finished.



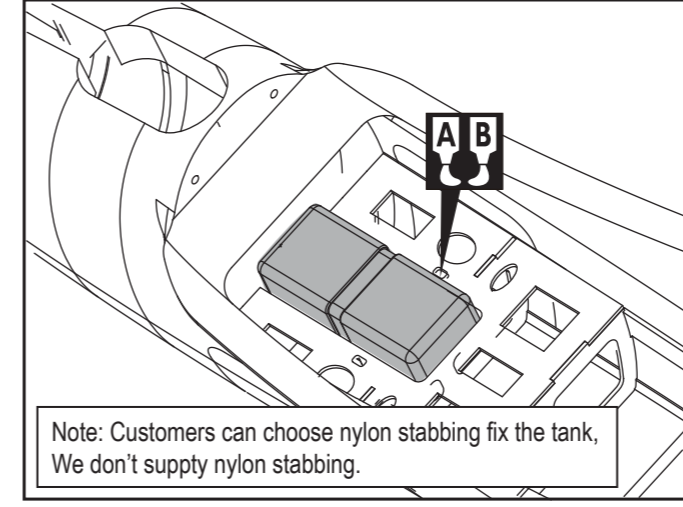
53 The sketch map of the linkage for the rudder and the tail wheel.



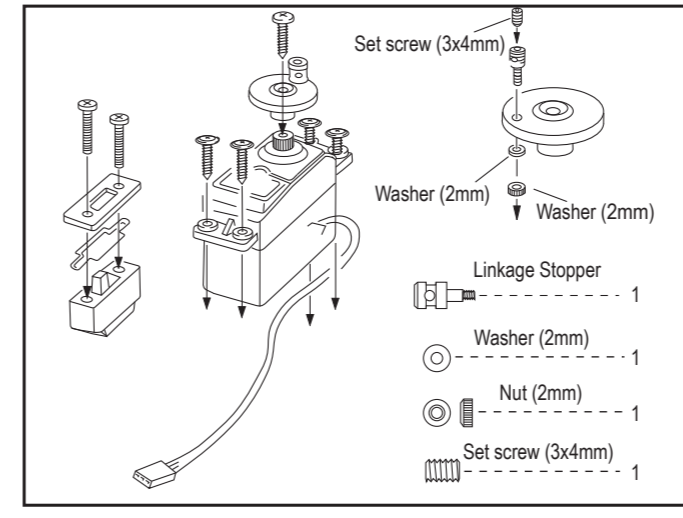
54 Install the servo.



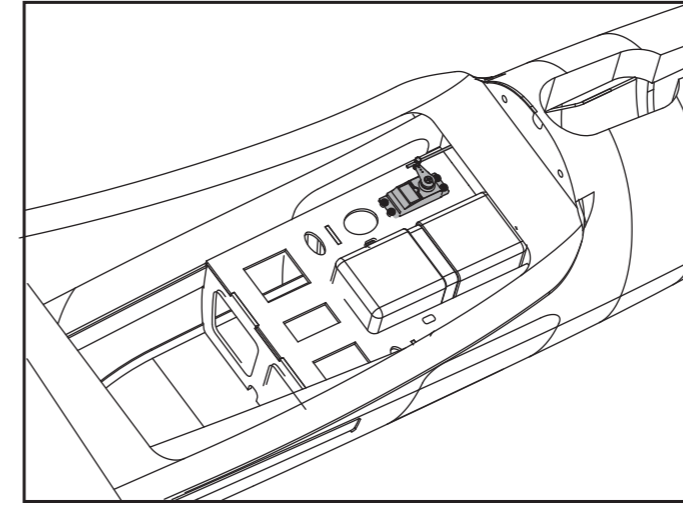
33 Mount the fuel tank to the fuselage.



34 Install the servo.



35 Assemble the throttle servo to appropriate position in the fuselage.



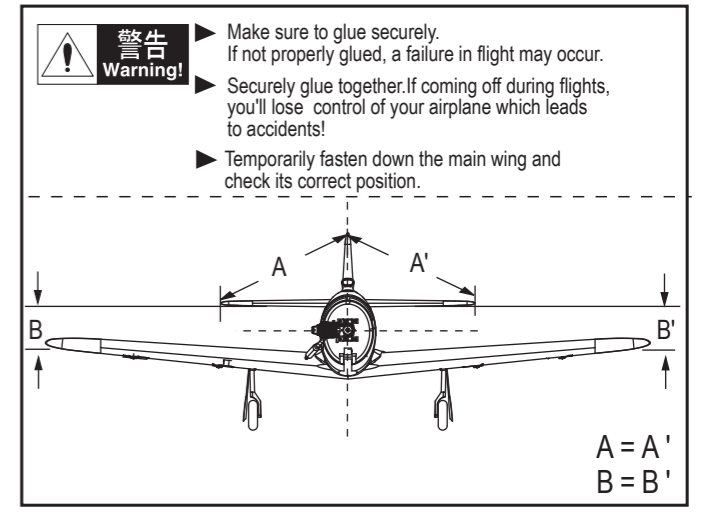
AB Apply epoxy glue. **LR** Assemble left and right sides the same way. **Hand icon** Pay close attention here! **Warning!** Do not overlook this symbol!

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

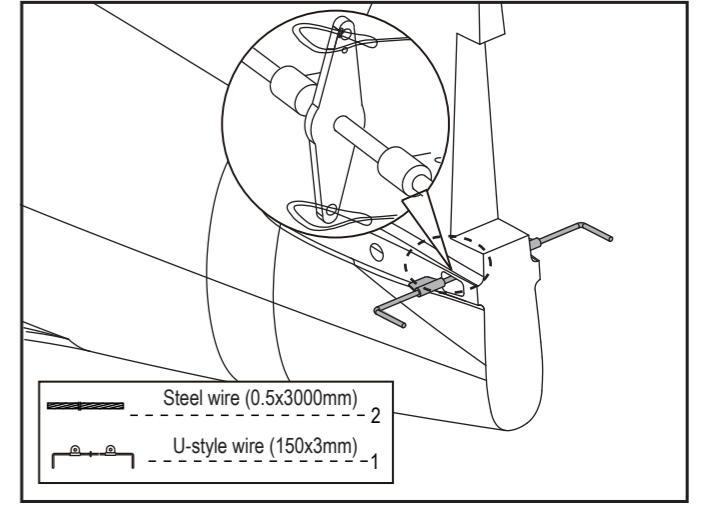
Warning! Accessory list for the coming installation steps.

- Pin hinge(24x24mm) ----- 6
- U-style wire (150x25mm) ----- 1
- Steel wire (0.5x3000mm) ----- 2
- Matal douel (4x30mm) ----- 4
- Rib template (2mm ply) ----- 1
- Stab joiner (12x310mm) ----- 1
- Clevis ----- 1
- Copper joiner ----- 2
- Screw (2x10mm) ----- 2
- Nut (2mm) ----- 2
- Washer(2x5mm) ----- 2
- Plastical tube(3x30mm) ----- 2

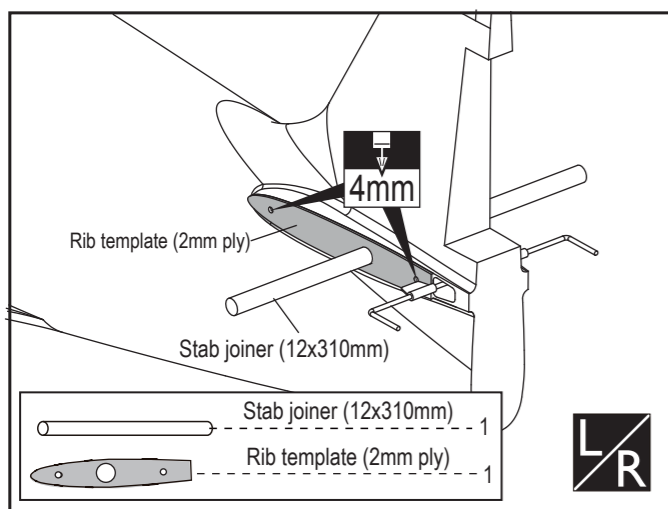
36 Assembly of the stabilizer.



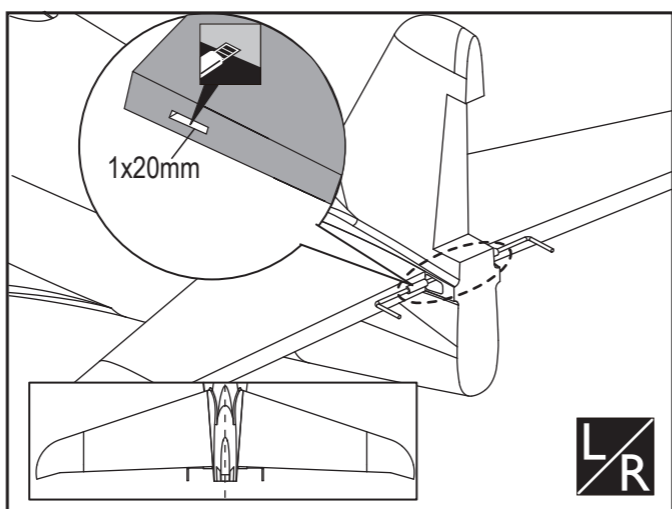
37 Set the U-style wire through the enlarged hole as below.



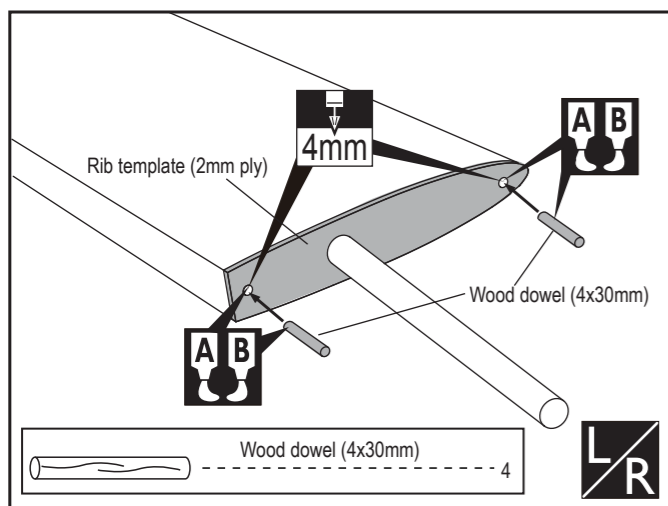
38 According to the rib template drill holes to the tail of fuselage and assemble the "U" style wire as illustration.



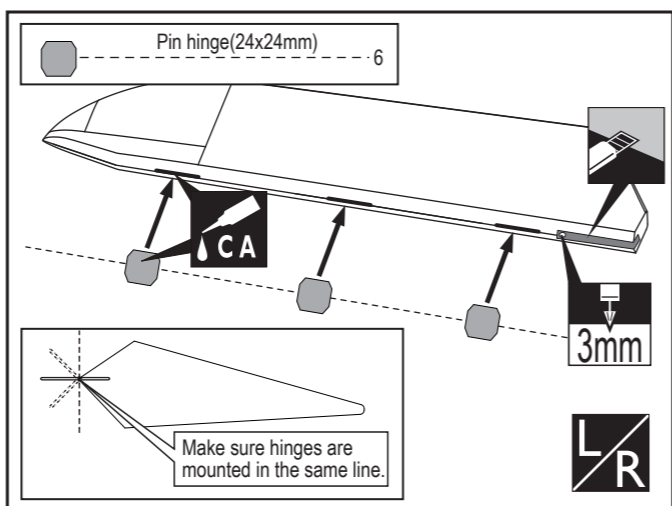
41 Trim slot to appropriate position in the stabilizer.



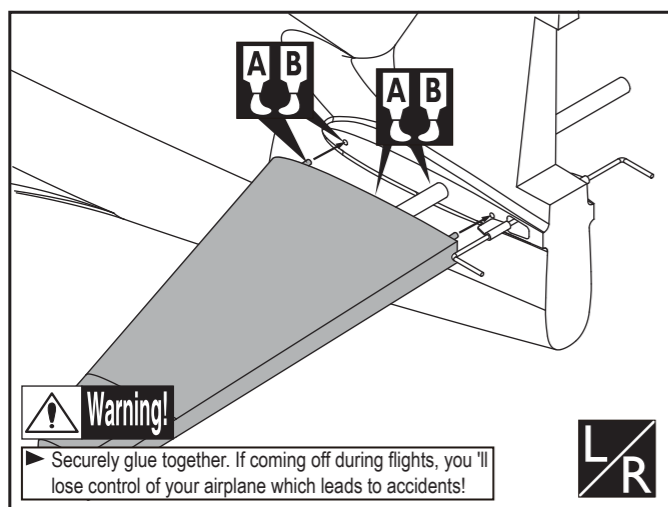
39 Drill two holes at the stabilizer root base via rib template and epoxy the wood dowel in them.



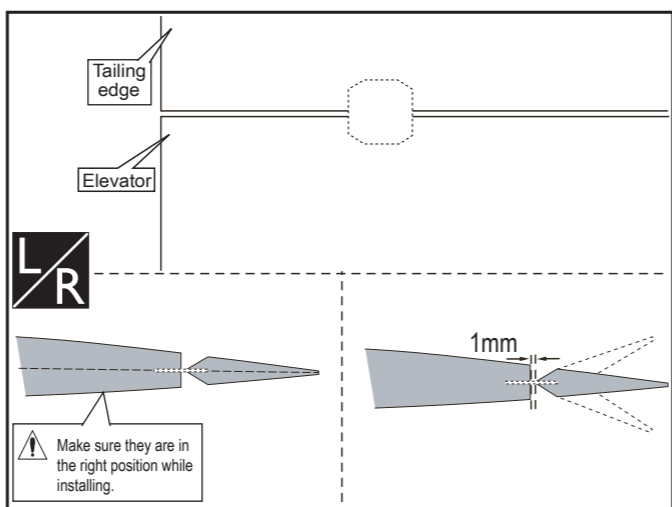
42 Apply instant type CA glue to elevator and pin hinge.



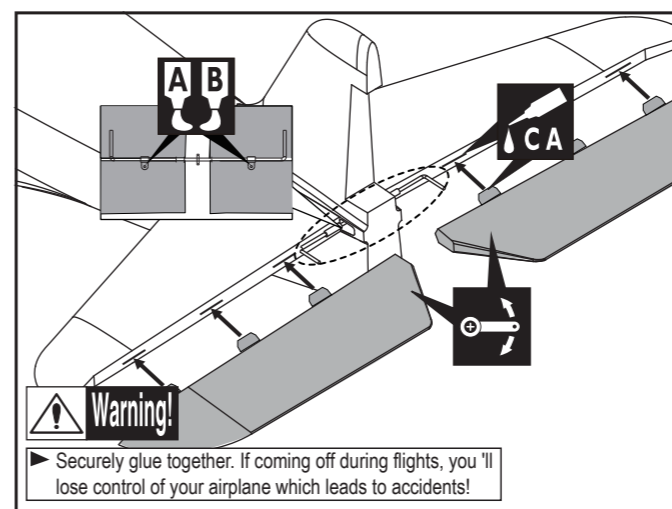
40 Assemble the stabilizers carefully to the fuselage.



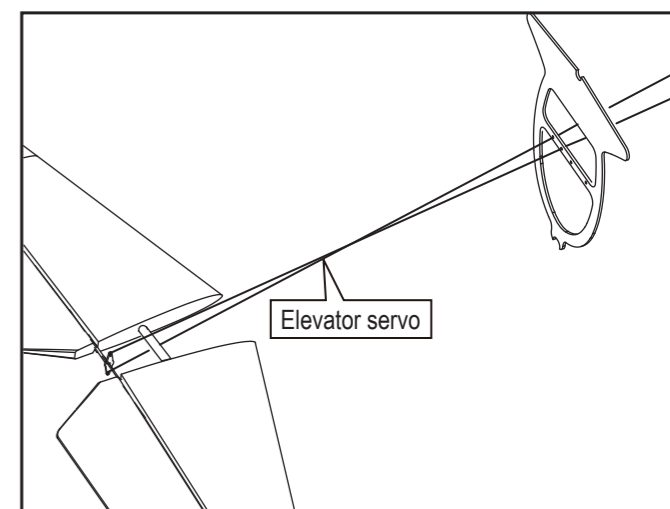
43 Keep some space about 1mm width between elevator and tailing edge.



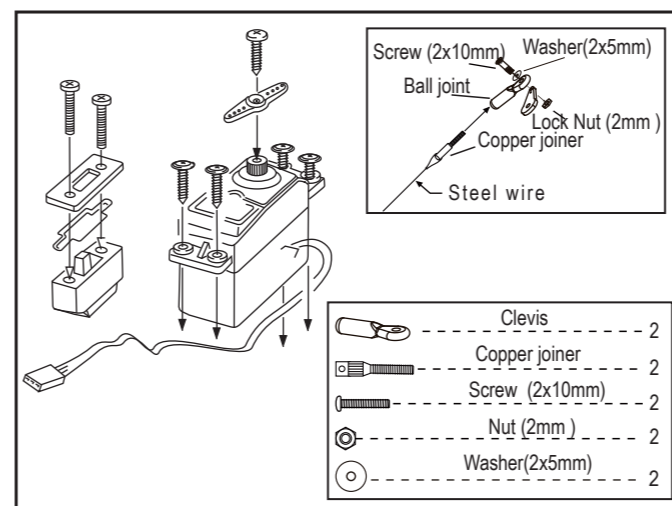
44 Glue the elevator to the stabilizer by CA and epoxy.



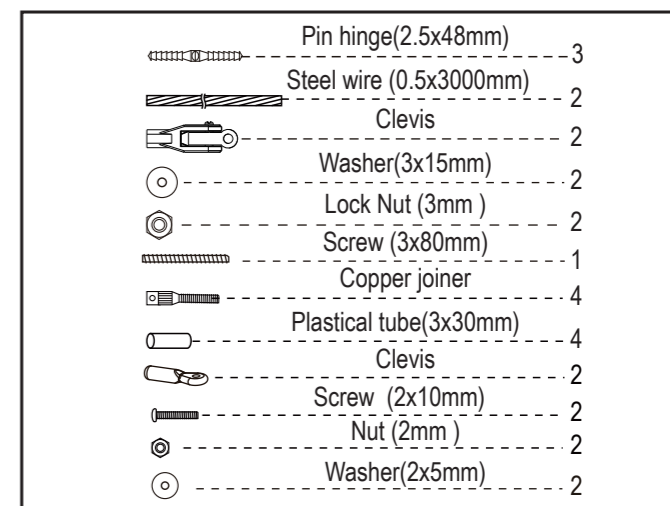
47 Connect the elevator and the server via the steel wire.



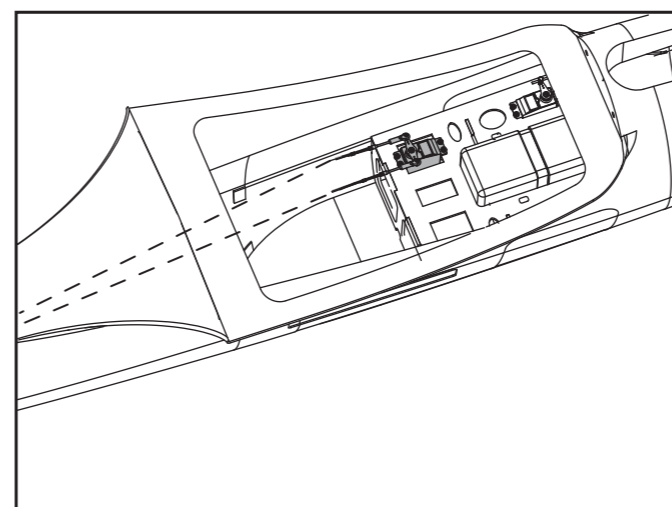
45 Install the servo.



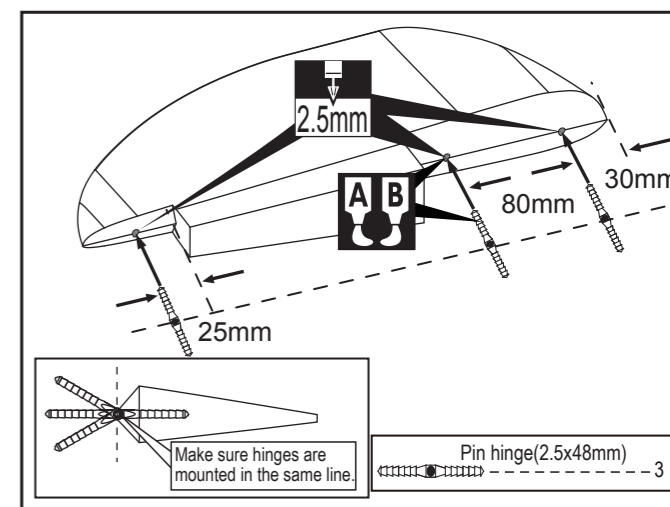
Warning! Accessory list for the coming installation steps.



46 Assemble the elevator sever to appropriate position in the fuselage.



48 Drill holes to appropriate position in the rudder and epoxy the ping hinges in them



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

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

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

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