

Before start ,please carefully read the explanations!

P-51B Mustang



Specification:

| | |
|---------------|---------------------------------|
| Length | :1583 mm(62.3") |
| Wing Span | :1800 mm(71") |
| Wing Area | :56.7 sq. dm 6.11 sq. ft |
| Wing Loading | :100.5 g/sq. dm 33 oz/sq. ft |
| Flying Weight | :5.7 kg(11.46 lbs) |
| Radio | :6ch&8 servos |
| Engine | :108 2-cycle 120 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.

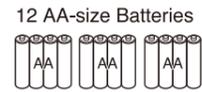
Fly only in open areas and preferably at a dedicated R/C flying site. We suggest having a qualified instructor carefully inspect your airplane before its first flight.Please carefully read and follow all instructions included with this airplane,your radio control system and any other components purchased 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 8 servos), and dry batteries.

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

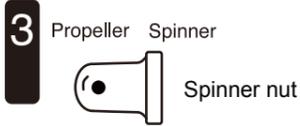
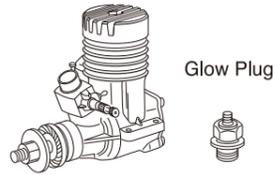


A minimum 6 channel transmitter for airplanes.



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

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

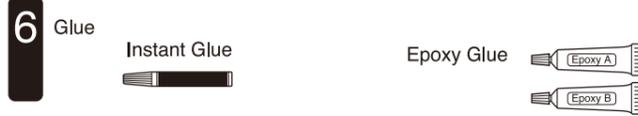
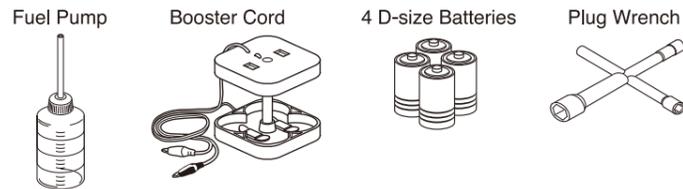


Purchase a propeller that will match your engine.

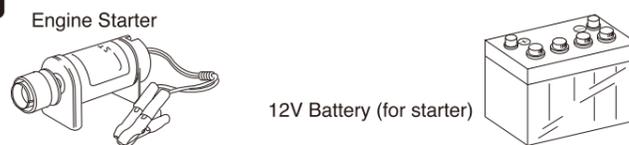


5 Required for engine starting: Glow engine fuel only.

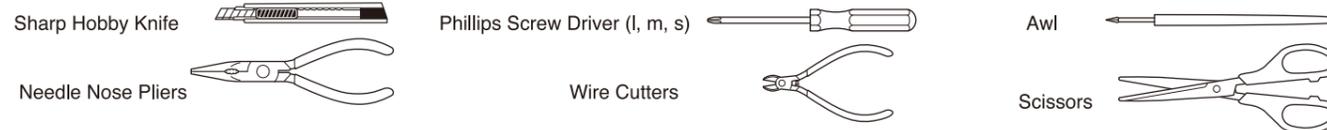
WARNING: Normal gasoline cannot be used with glow engines.



7 Other equipment for enhancing airplane operation & performance



TOOLS REQUIRED (Purchase separately!)

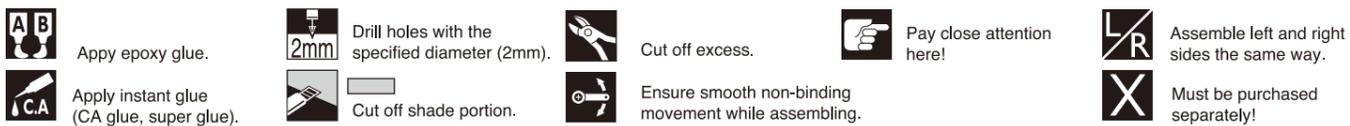


BEFORE YOU BEGIN

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

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

3 Symbols used throughout this instruction manual, comprise:

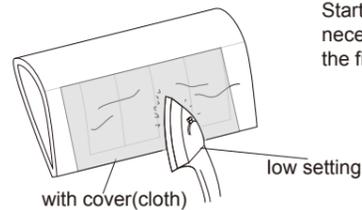


Do not overlook this Symbol!

Warning!

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

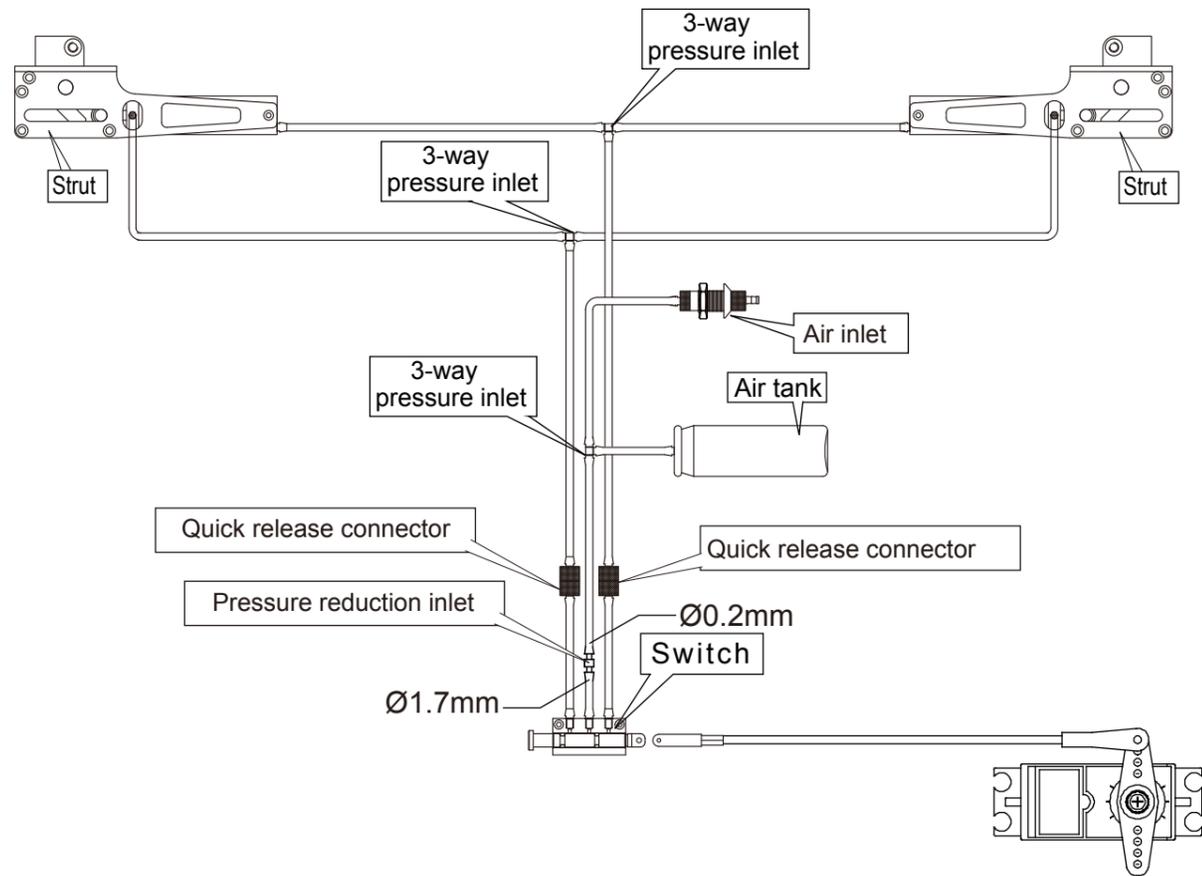
The pre-covered film on ARF kits may wrinkle due to variations of temperature. Smooth out as explained right.



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

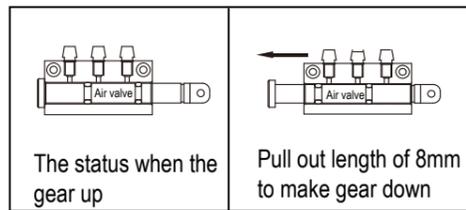
Two wheel retract system

Warning! Make sure to assemble retracts as instructed below.



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

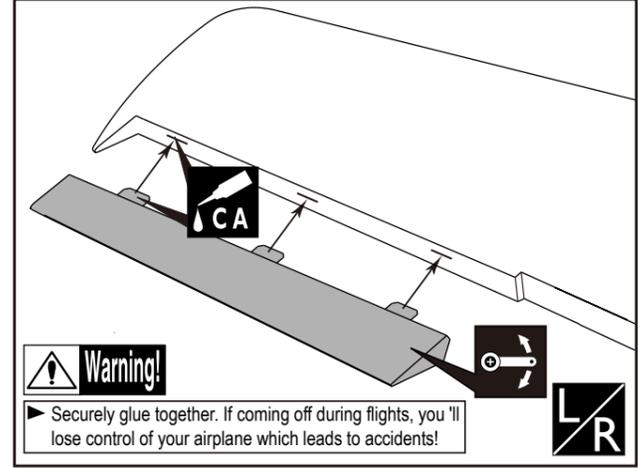
- | | |
|-------|-------|
| --- 2 | --- 1 |
| --- 1 | --- 1 |
| --- 1 | --- 3 |
| --- 1 | --- 1 |
| --- 2 | --- 1 |
| | --- 2 |
| | --- 1 |



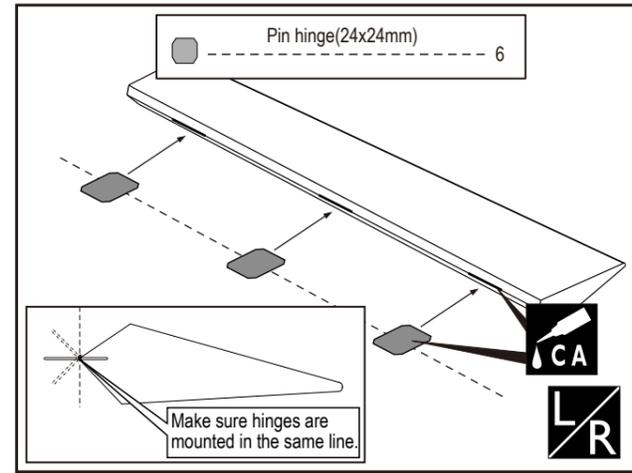
Warning! Accessory list for the coming installation steps.

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

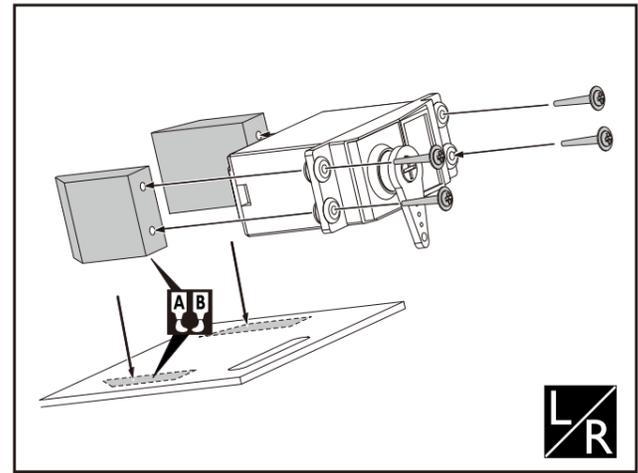
3 Assemble the aileron to main wing with instant type CA glue.



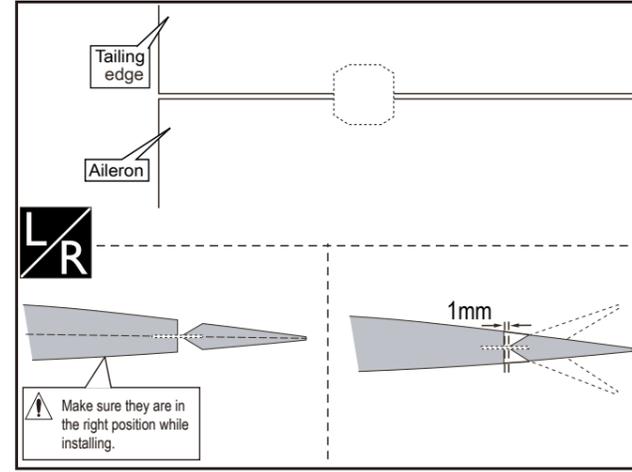
1 Apply instant type CA glue to aileron and pin hinge.



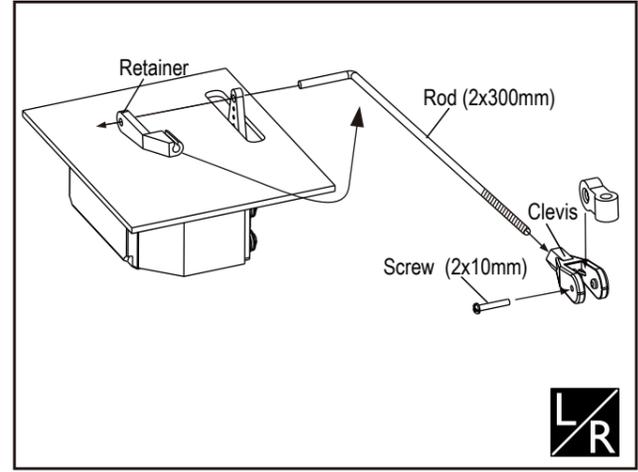
4 Install the servo as the illustration below.



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



5 Install the nylon control horn and connect the linkage.



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

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

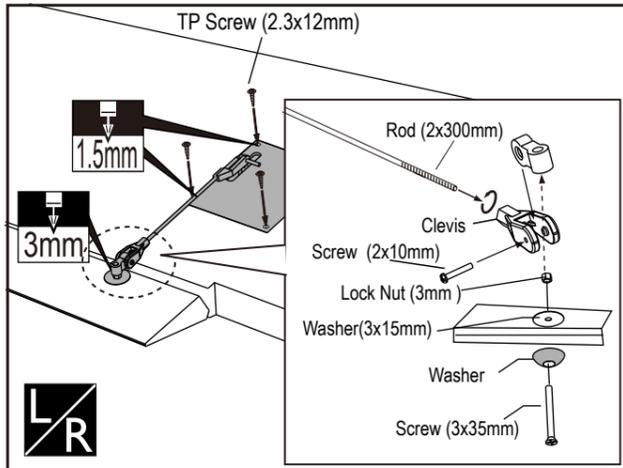
Do not overlook this symbol!

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

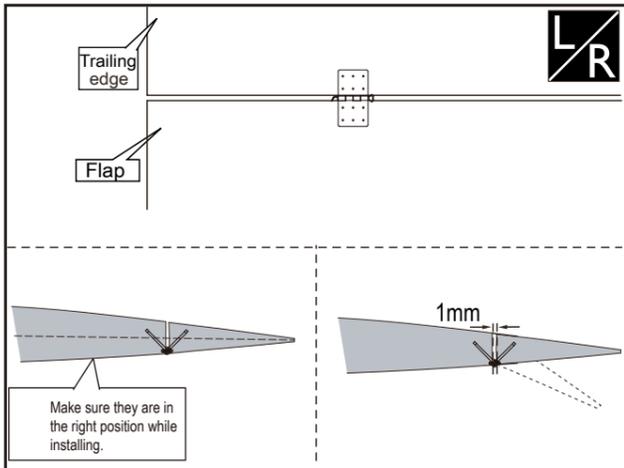
Apply instant glue (CA glue, super glue). Ensure smooth non-binding movement while assembling. Cut off shaded portion.

Do not overlook this symbol!

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



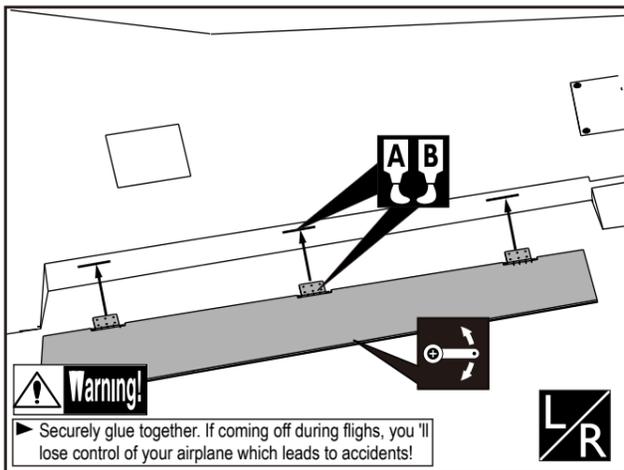
8 Keep some space about 1mm width between trailing edge and flap.



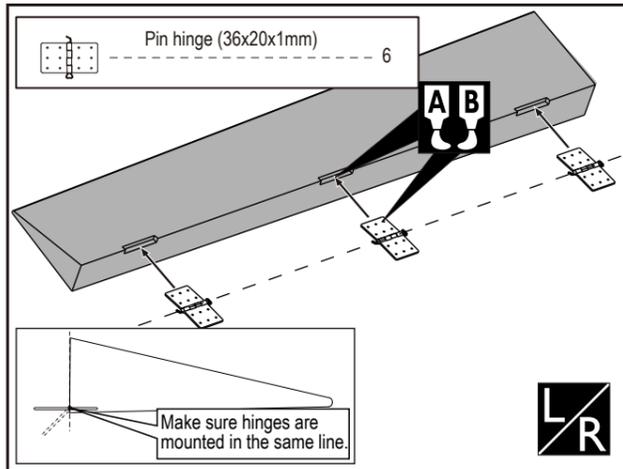
Accessory list for the coming installation steps.

- Clevis ----- 2
- Retainer ----- 2
- Rod (2x300mm) ----- 2
- TP Screw (2.3x12mm) ----- 8
- Screw (3x45mm) ----- 2
- Servo tray (68.5x56.5x2mm) ----- 2
- Wooden Block (20x20x8mm) ----- 4
- Pin hinge (36x20x1mm) ----- 6
- Washer (3x15mm) ----- 2
- Lock Nut (3mm) ----- 2
- Washer ----- 2

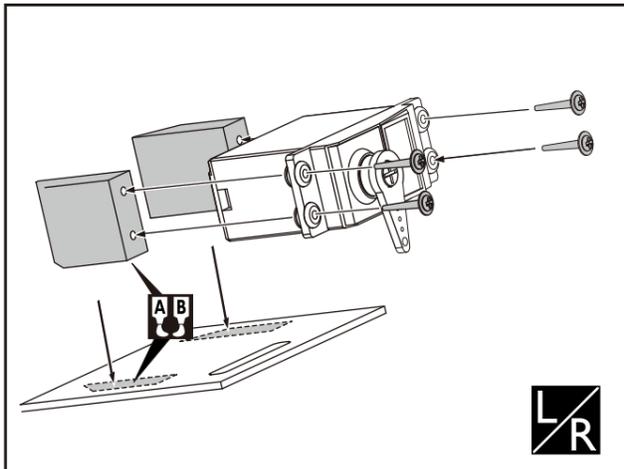
9 Epoxy the flap and the retract strut covering part to appropriate position in the main wing as below. Be careful to ensure the moving parts of the hinges are able to move freely.



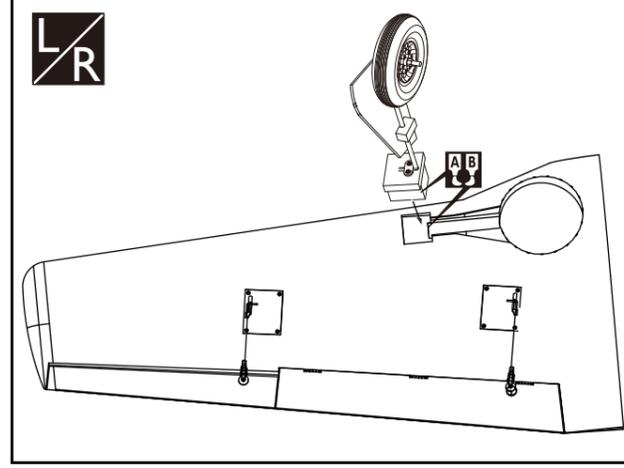
7 Epoxy the pin hinges to the flap.



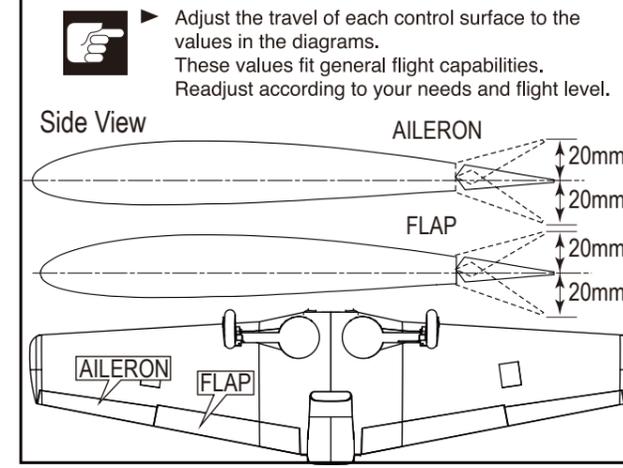
10 Install the servo as the illustration below.



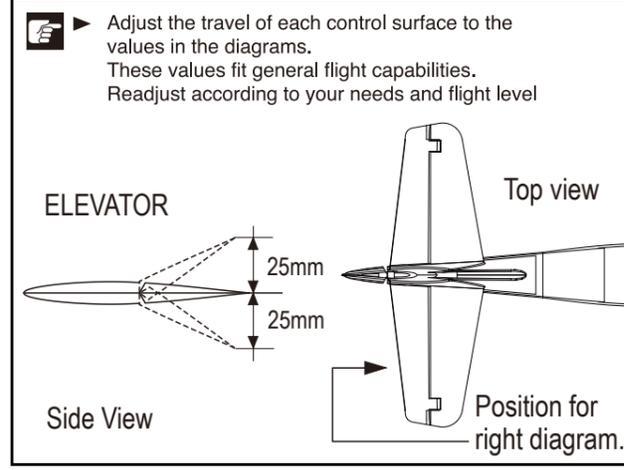
77 Epoxy the wheels to the wings steadily.



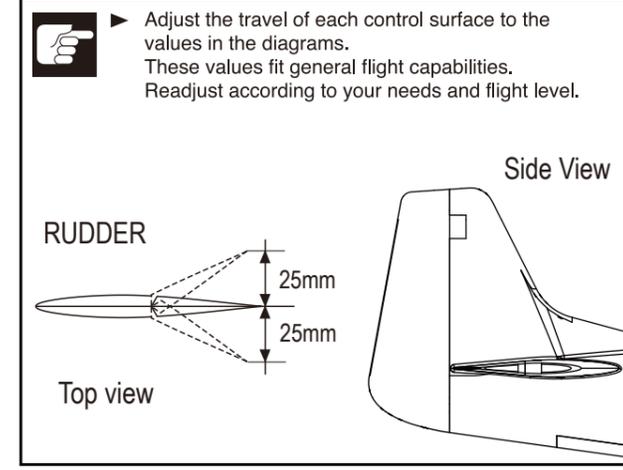
78 Adjustment.



79 Adjustment.



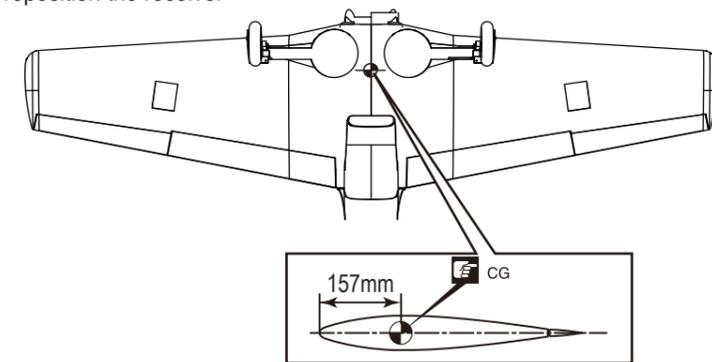
80 Adjustment.



81 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.

Warning!
NEVER fly the model without well balancing.



- Apply epoxy glue.
- Assemble left and right sides the same way.
- Apply instant glue (CA glue, super glue).
- Ensure smooth non-binding movement while assembling.

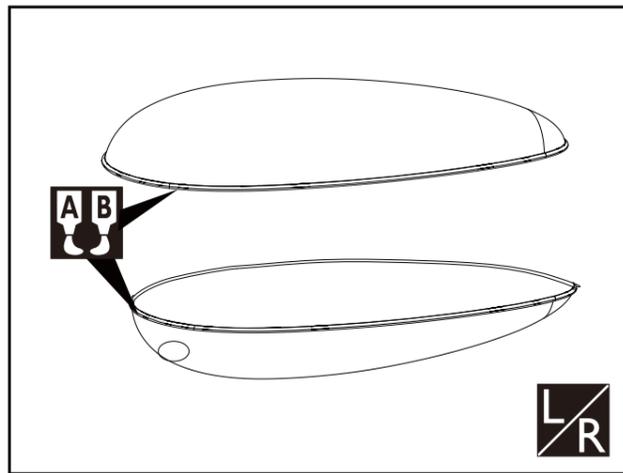
- Pay close attention here!
- Cut off shaded portion.

Do not overlook this symbol!
Warning!

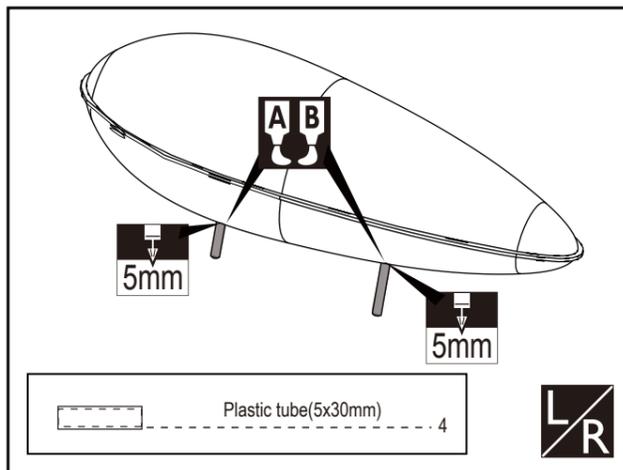
- Apply epoxy glue.
- Assemble left and right sides the same way.
- Apply instant glue (CA glue, super glue).
- Ensure smooth non-binding movement while assembling.
- Pay close attention here!
- Cut off shaded portion.

Do not overlook this symbol!
Warning!

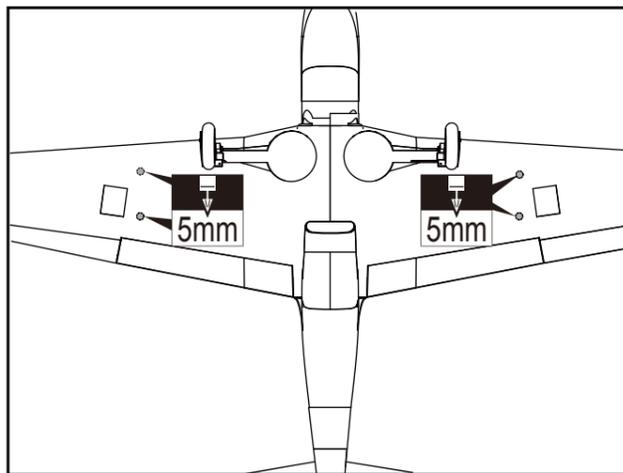
72 Epoxy the two parts of the drop tank together.



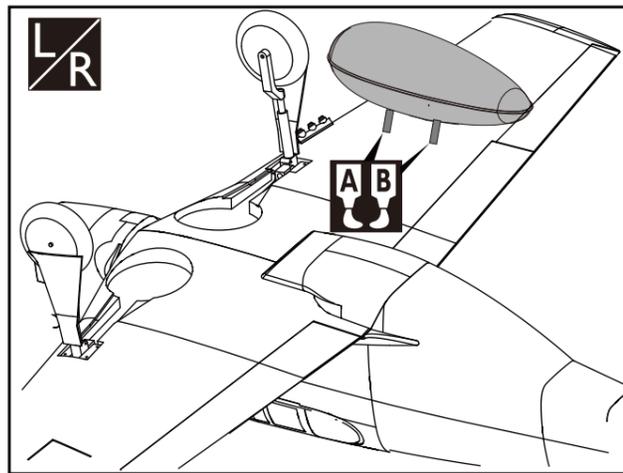
73 Drill holes in the bulges position and epoxy the plastic tubes in them.



74 Drill two holes to the relevant position in the airplane for assembling the drop tank.



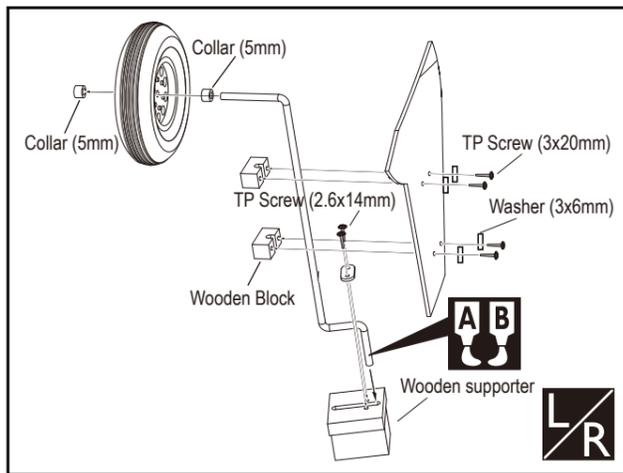
75 Epoxy the drop tank to the bottom cover.



Warning! Accessory list for the coming installation steps.

| | | |
|--|--------------------------|---|
| | Wheel (100mm) | 2 |
| | Collar (5mm) | 4 |
| | Wooden Block(43x28x26mm) | 2 |
| | Landing gear(5mm) | 1 |
| | TP Screw (3x20mm) | 8 |
| | Landing gear straps | 2 |
| | Gear door | 1 |
| | Wooden Block(25x15x13mm) | 4 |
| | TP Screw (2.6x14mm) | 4 |
| | Washer (3x6mm) | 8 |

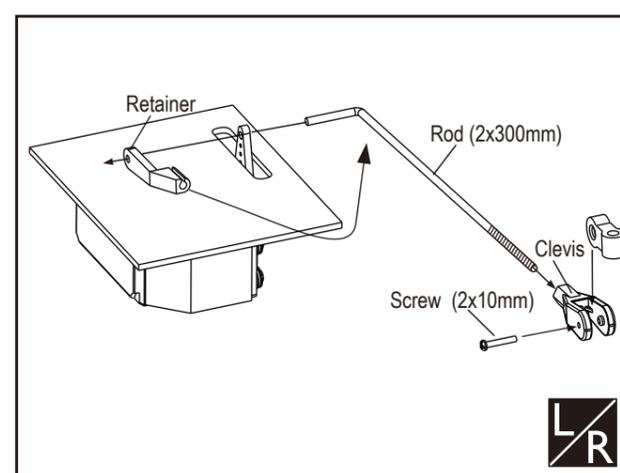
76 Assemble the main wheels as below.



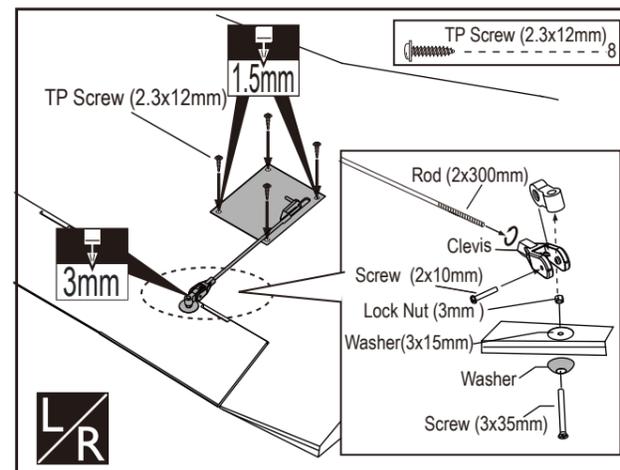
Apply epoxy glue.
 Assemble left and right sides the same way.
 Pay close attention here!
 Do not overlook this symbol!

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

11 Install the nylon control horn and connect the linkage.



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



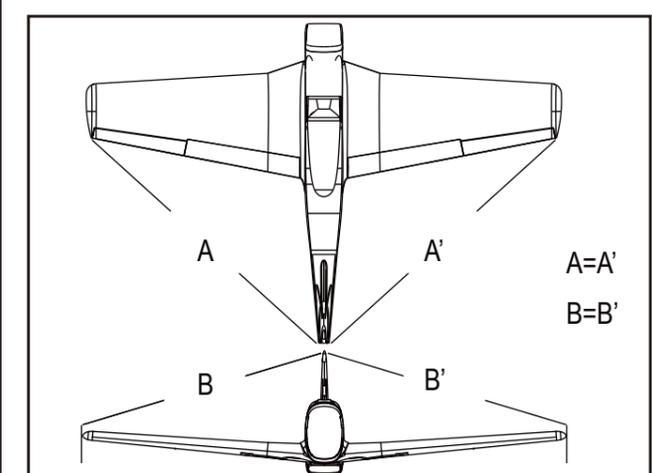
Warning! Accessory list for the coming installation steps.

| | | |
|--|--------------------------|---|
| | Screw (6x50mm) | 2 |
| | Blind Nut (6mm) | 2 |
| | Wood dowel (6x50mm) | 2 |
| | Wood dowel (6x30mm) | 2 |
| | Wooden Block(25x15x13mm) | 4 |
| | Wheel (100mm) | 2 |
| | Bushing (8x4mm) | 2 |
| | LockNut (4mm) | 2 |
| | PVC | 2 |
| | Reinforcement plate | 1 |
| | Gear door | 1 |
| | Rib template (2mm ply) | 1 |

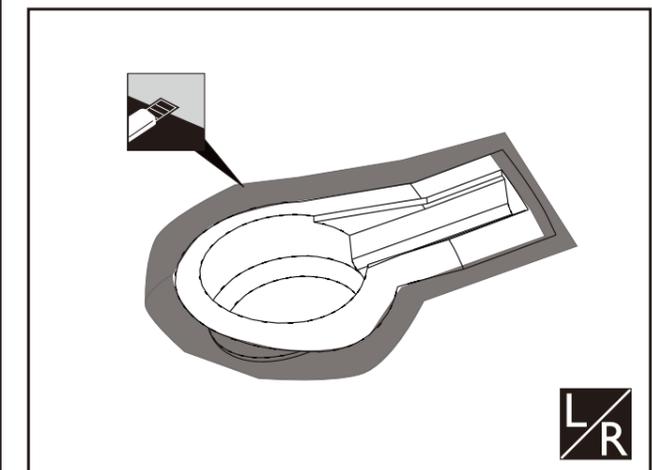
Apply epoxy glue.
 Assemble left and right sides the same way.
 Pay close attention here!
 Do not overlook this symbol!

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

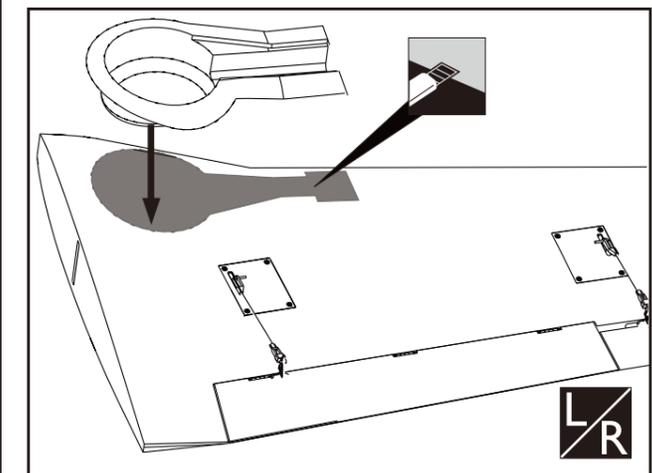
13 Assembly of the main wings.



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



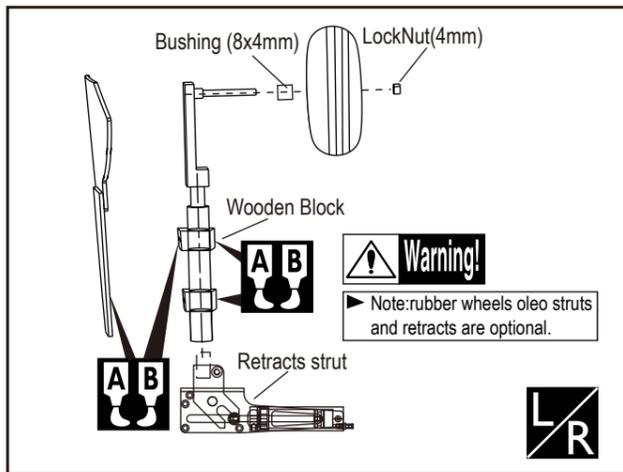
15 Cut away the film on the position for the air retract landing and epoxy the wheel house to relevant position.



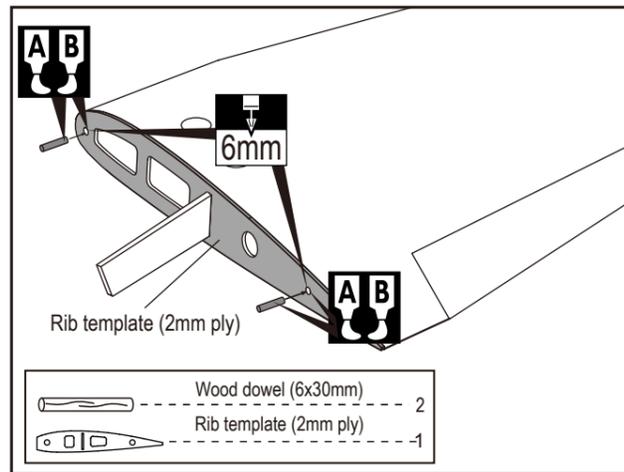
Apply epoxy glue.
 Assemble left and right sides the same way.
 Pay close attention here!
 Do not overlook this symbol!

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

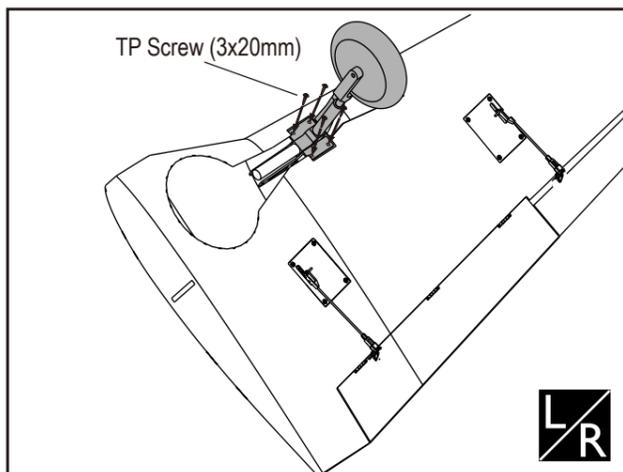
16 Assemble the gear doors and the wheels to the retracts.



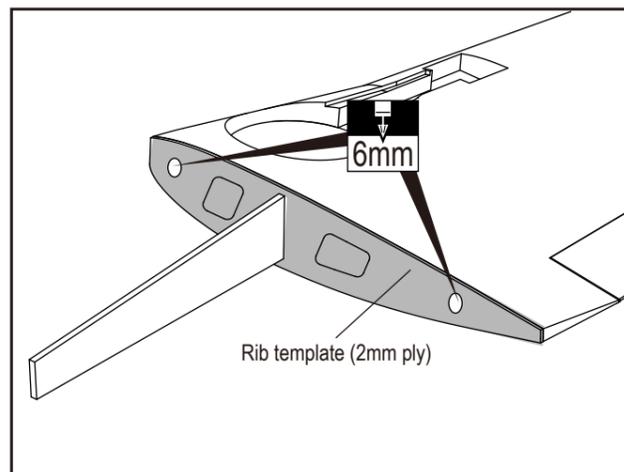
19 According to the rib template drill holes in one wing and epoxy wood dowel in them.



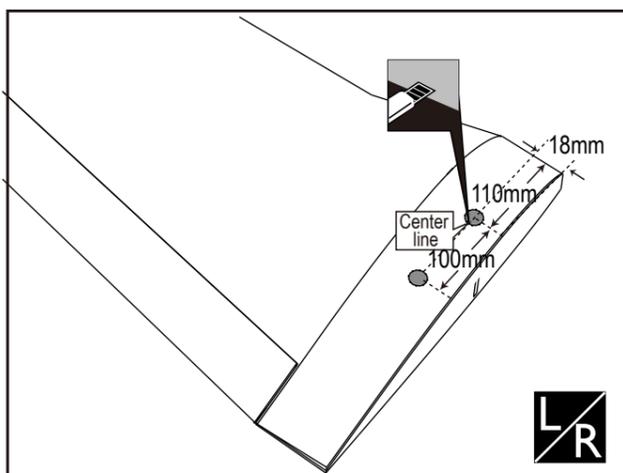
17 Assemble the retract



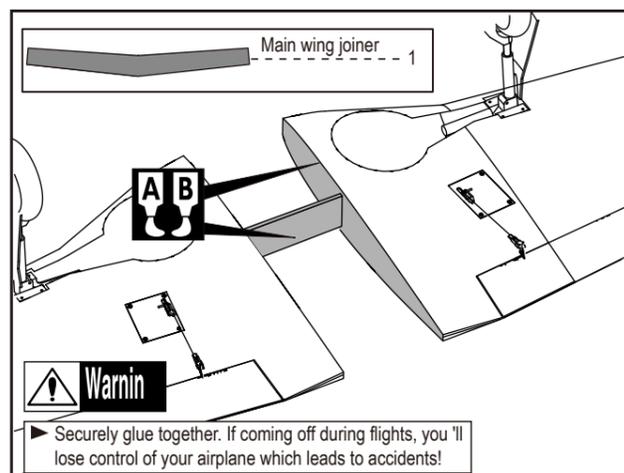
20 According to the rib template drill holes to another main wing.



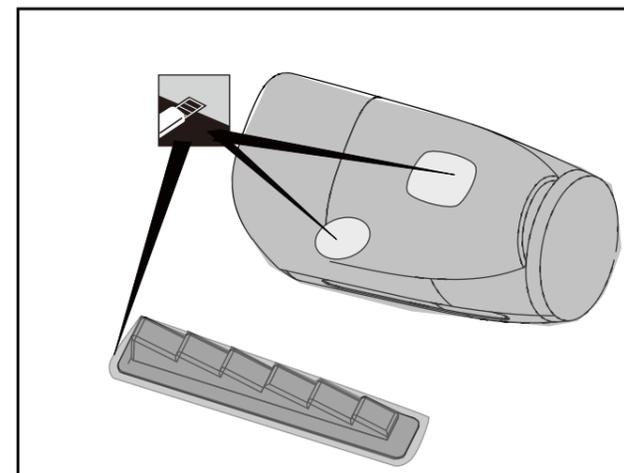
18 Drill holes for pulling out the servo extension line.



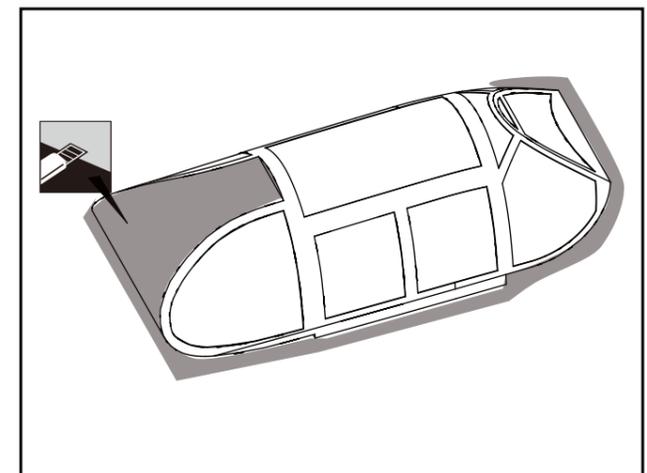
21 Joint the main wing together tightly .



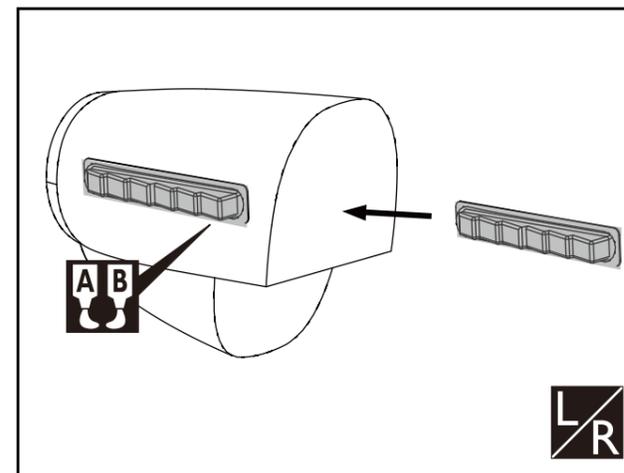
66 Trim the cowling for engine and muffler



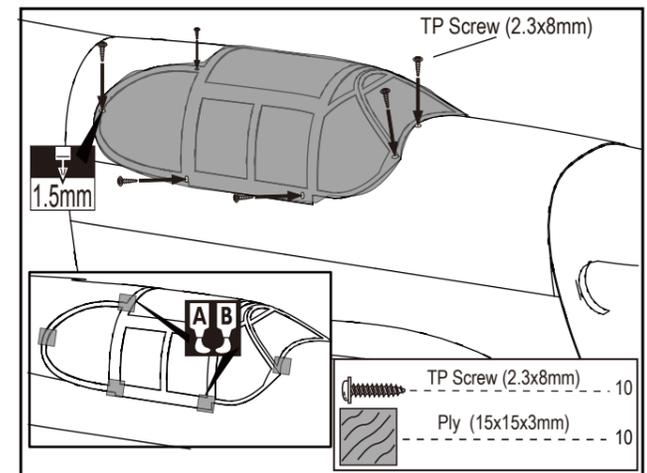
69 Cut off the surplus portion from the canopy carefully.



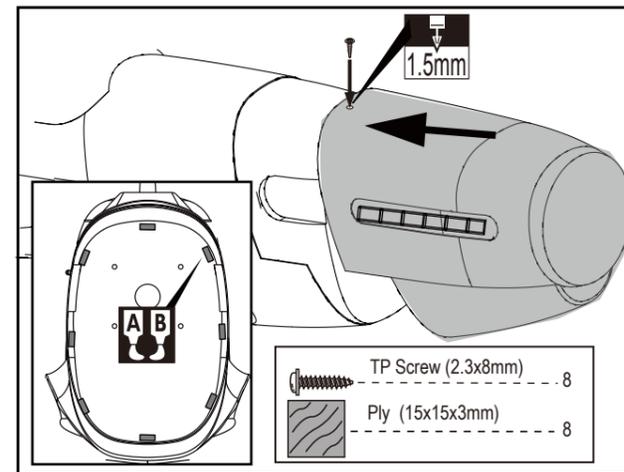
67 Epoxy the exhaust to the cowling from inner of the cowling.



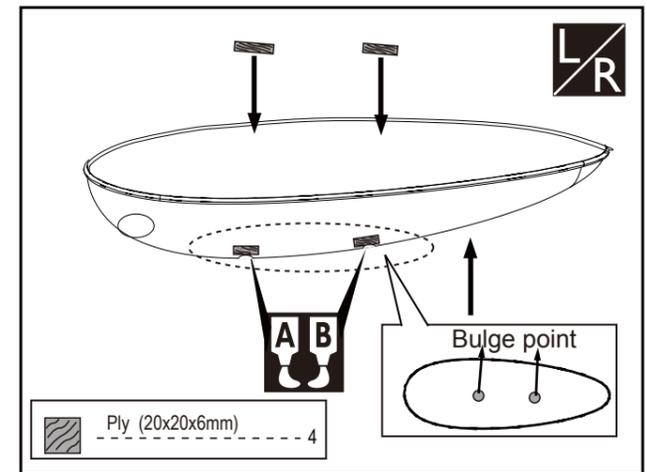
70 Assemble the canopy to the canopy mount with screw.



68 Epoxy plies appropriate position inside the fuselage as below and assemble the cowling.



71 Epoxy the plies to the bulges.



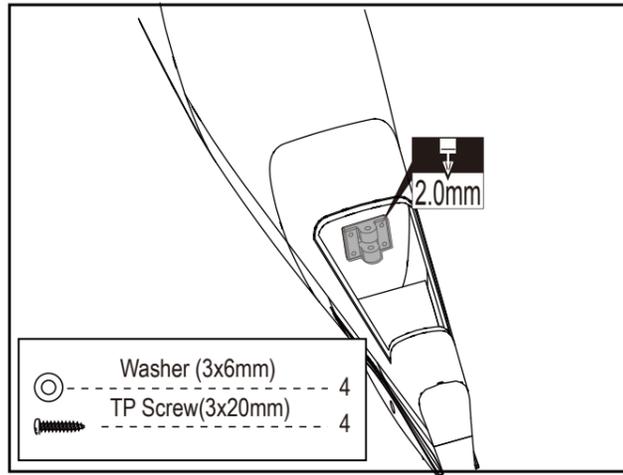
AB Apply epoxy glue. **LR** Assemble left and right sides the same way. **Hand icon** Pay close attention here! **Warning!** Do not overlook this symbol!

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

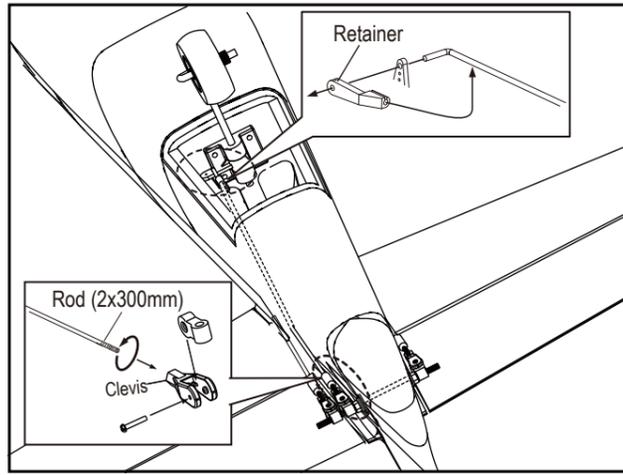
AB Apply epoxy glue. **LR** Assemble left and right sides the same way. **Hand icon** Pay close attention here! **Warning!** Do not overlook this symbol!

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

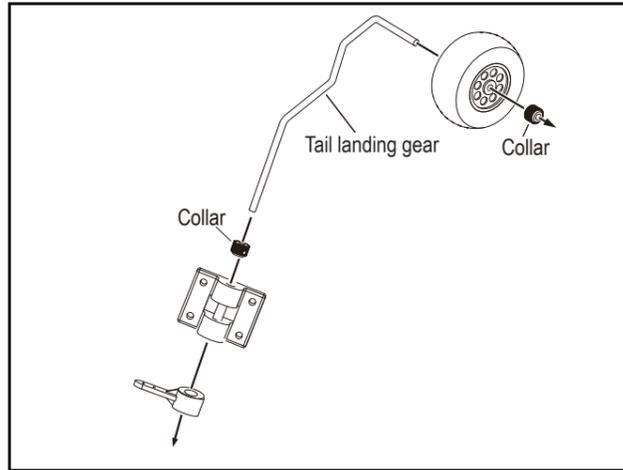
61 Assemble the wheel steering mounts to appropriate position.



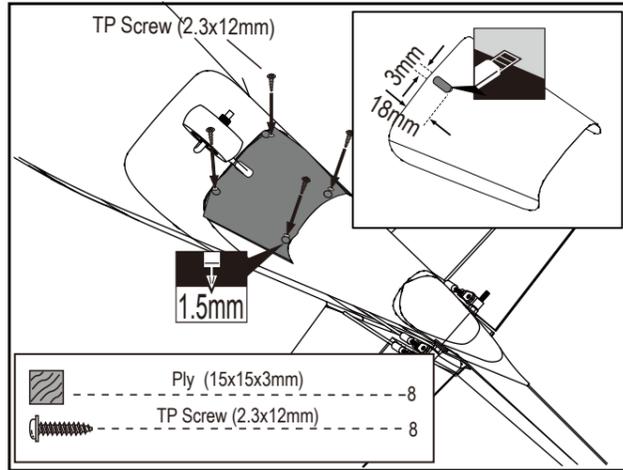
64 Connect the nose arm to the horn in the rudder.



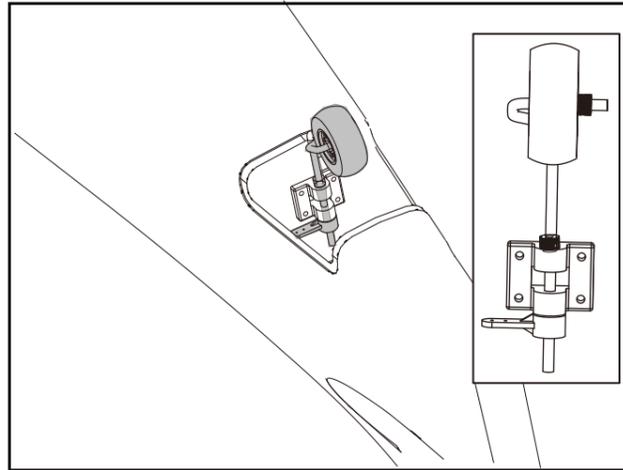
62 Assemble the tail landing gear to the wheel steering mounts as below.



65 Assemble the tail landing gear covering to the fuselage as below.



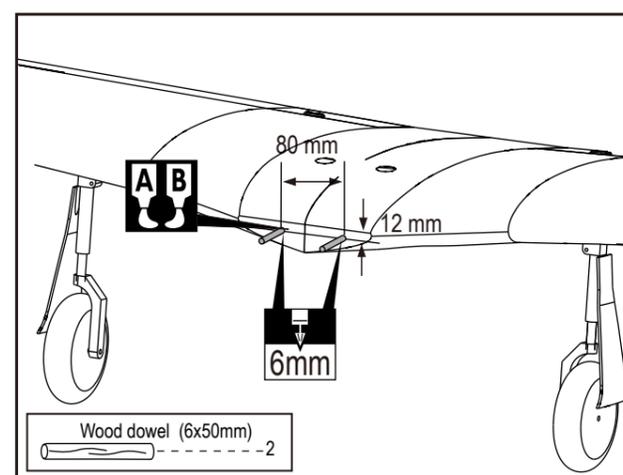
63 The sketch map when the tail landing gear be installed to the fuselage.



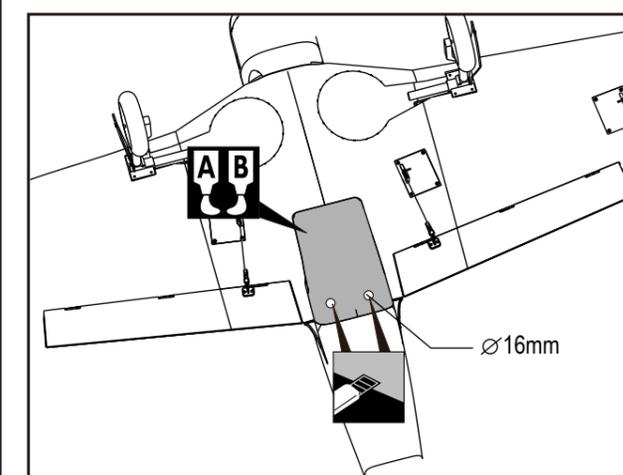
Accessory list for the coming installation steps.

| | | |
|--|----------------------|----|
| | Canopy | 1 |
| | TP Screw (2.3x8mm) | 16 |
| | Ply (15x15x3mm) | 17 |
| | Pvc part | 2 |
| | Drop tank | 2 |
| | Plastic tube(5x30mm) | 4 |
| | Ply (15x15x3mm) | 4 |

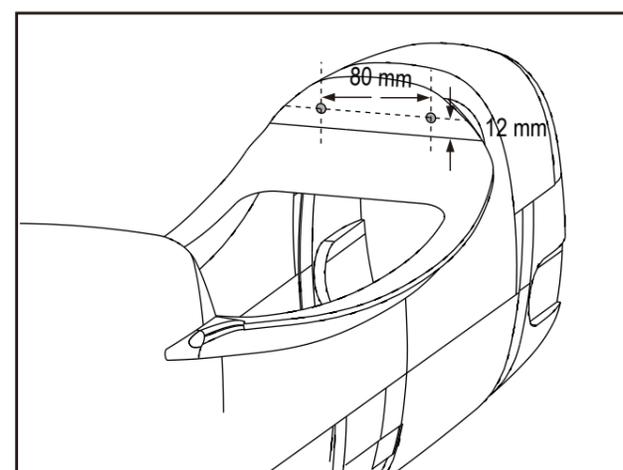
22 Drill holes to appropriate position in the wings and epoxy wood dowels in them



25 Epoxy the belly pants to main wing and drill holes to relevant position on the belly pants



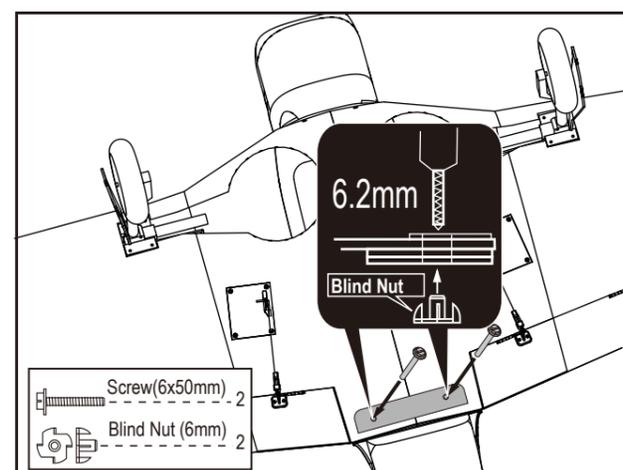
23 Drill holes to relevant position in the fuselage



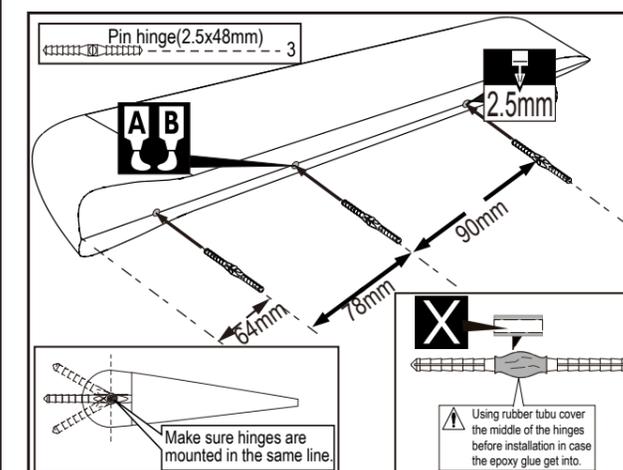
Accessory list for the coming installation steps.

| | | |
|--|-------------------------|---|
| | Stab joiner (12x250mm) | 1 |
| | Pin hinge(24x24mm) | 6 |
| | Pin hinge(2.5x48mm) | 3 |
| | Steel wire (0.5x3000mm) | 2 |
| | U-style wire (3mm) | 1 |
| | Wood dowel (4x30mm) | 4 |
| | Rib template (3mm ply) | 1 |

24 Mount the wings to the fuselage with screw .



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



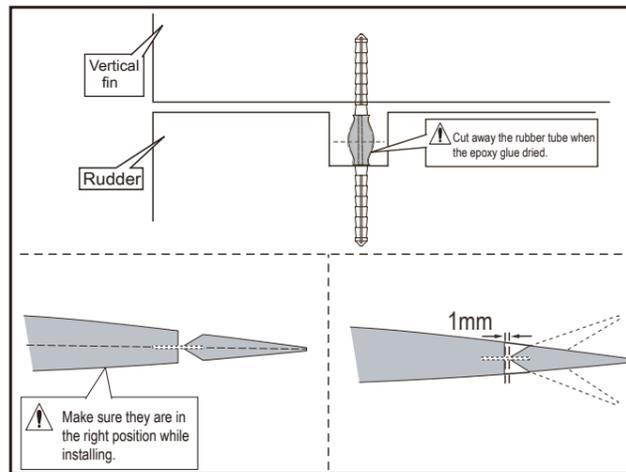
Apply epoxy glue.
 Assemble left and right sides the same way.
 Pay close attention here!
 Do not overlook this symbol!

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

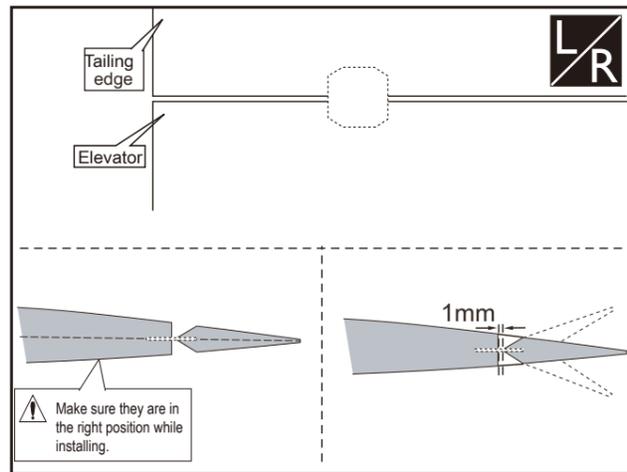
Apply epoxy glue.
 Assemble left and right sides the same way.
 Pay close attention here!
 Do not overlook this symbol!

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

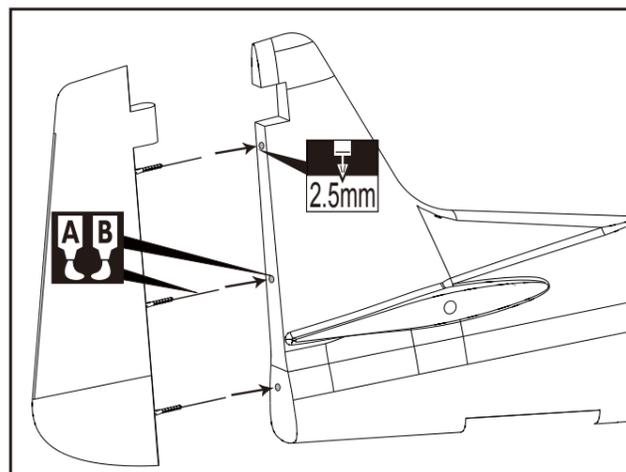
27 keep some space 1mm width between the vertical fin and rudder



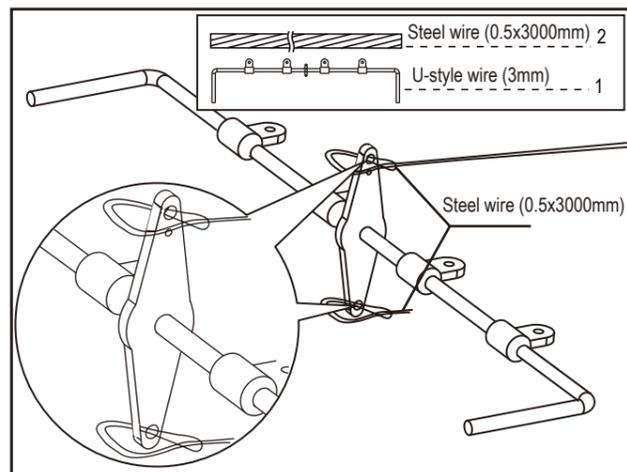
30 Keep some space about 1mm width between the elevator and horizontal tail edge.



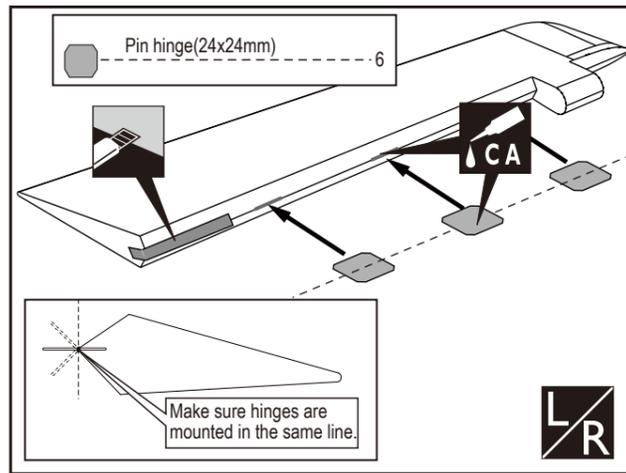
28 Drill holes to the relevant position in the tailing edge and epoxy the rudder to them.



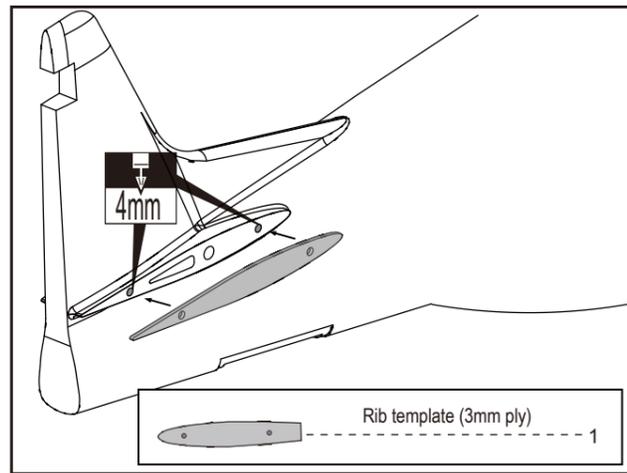
31 connect the fullarm for elevator with steel wire as below.



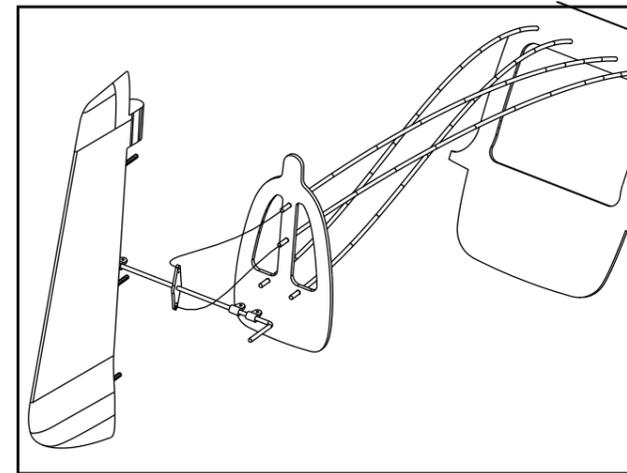
29 Apply instant type CA glue to aileron and pin hinge.



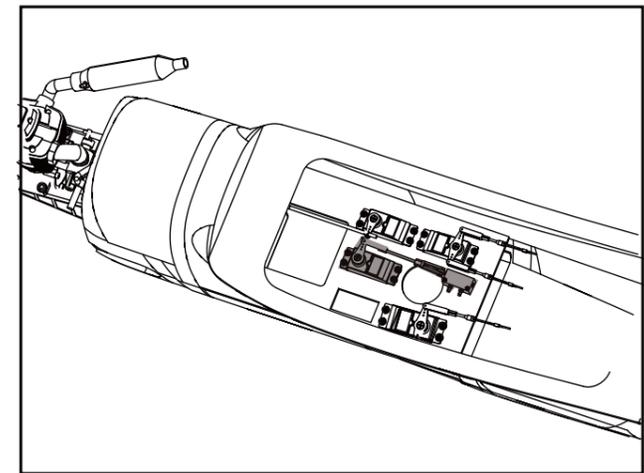
32 According to the rib template drill holes in the stabilizer root.



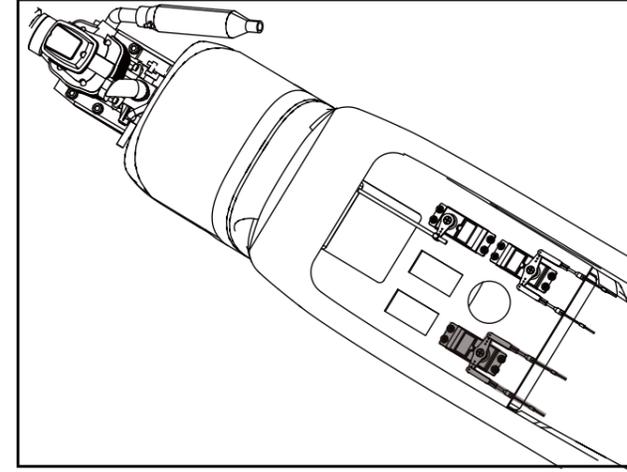
56 The sketch amp of the steel wires in the fuselage



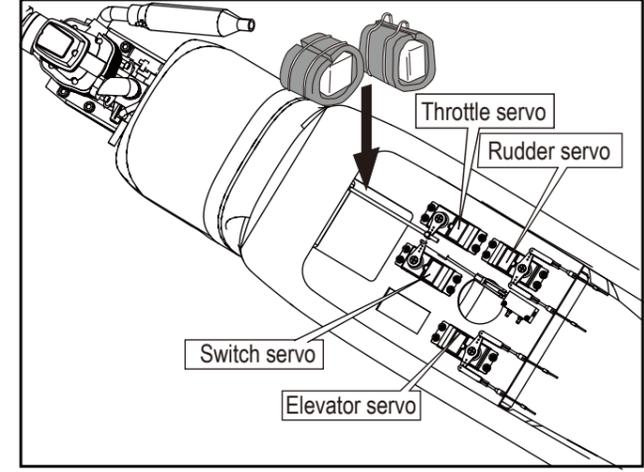
60 Assemble the switch servo to the fuselage.



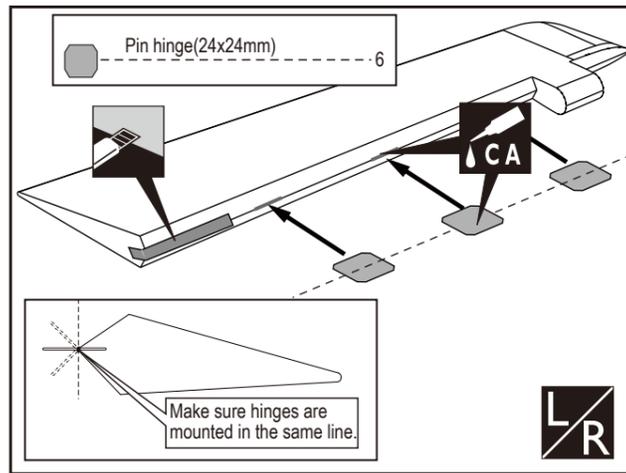
57 Assemble the elevator servos to the fuselage.



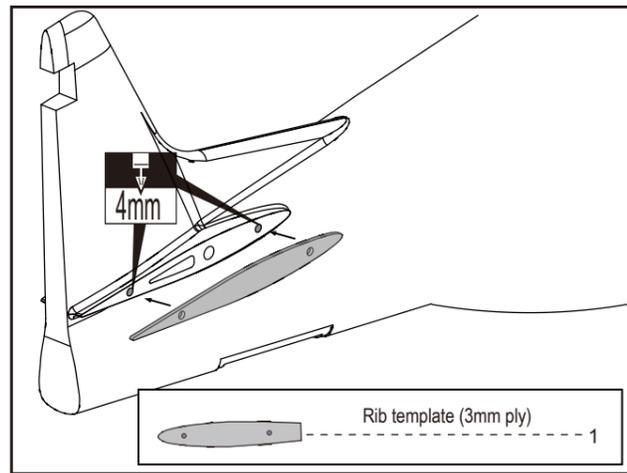
59 The sketch map when the servos install completion.



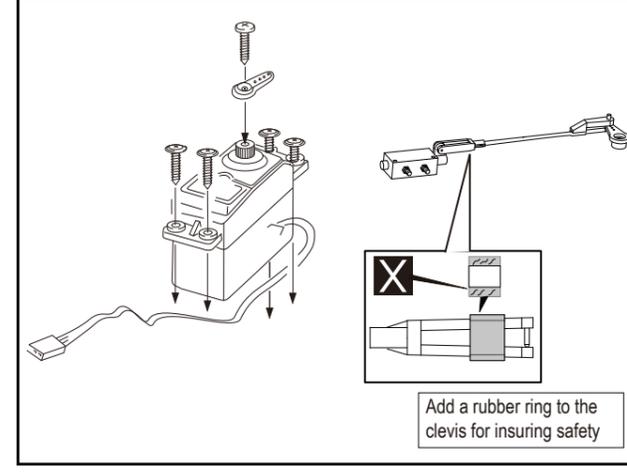
29 Apply instant type CA glue to aileron and pin hinge.



32 According to the rib template drill holes in the stabilizer root.



58 Assembly of the switch servo.



Accessory list for the coming installation steps.

| | | |
|--|------------------------|---|
| | Retainer | 1 |
| | Clevis | 3 |
| | Nose arm(3mm) | 1 |
| | Washer (3x6mm) | 4 |
| | TP Screw(3x20mm) | 4 |
| | Tail landing gear(3mm) | 1 |
| | Tail wheel (45mm) | 1 |
| | Collar (3mm) | 2 |
| | Rod (2X257mm) | 1 |
| | TP Screw (2.3x12mm) | 8 |
| | Ply (15x15x10mm) | 8 |

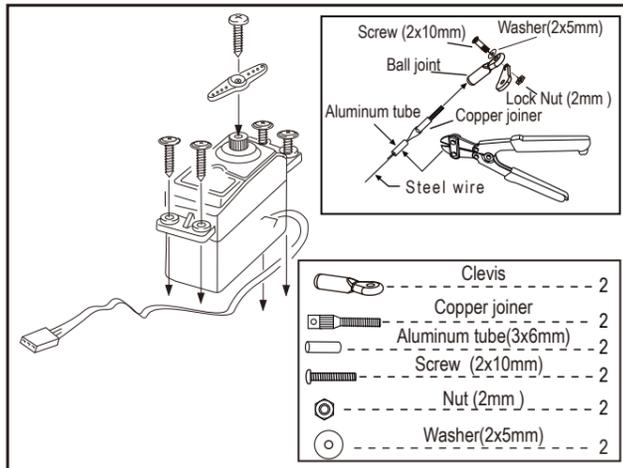
AB Apply epoxy glue. **LR** Assemble left and right sides the same way. **Hand icon** Pay close attention here! **Warning!** Do not overlook this symbol!

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

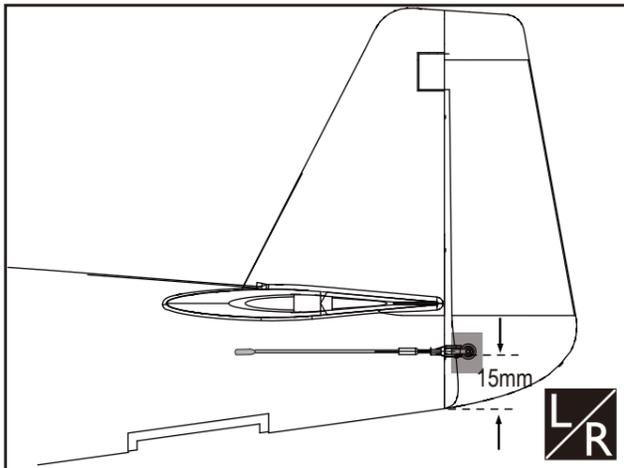
AB Apply epoxy glue. **LR** Assemble left and right sides the same way. **Hand icon** Pay close attention here! **Warning!** Do not overlook this symbol!

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

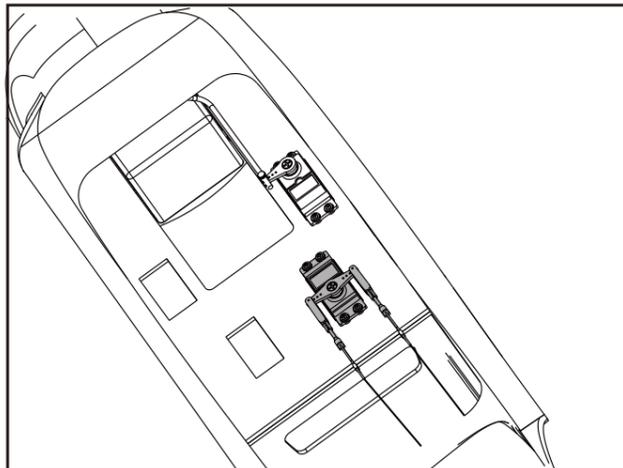
50 Install the rudder servo.



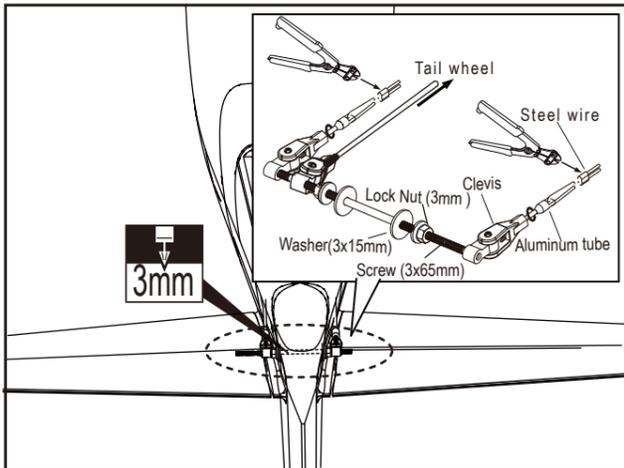
53 The position of the control horn in the rudder.



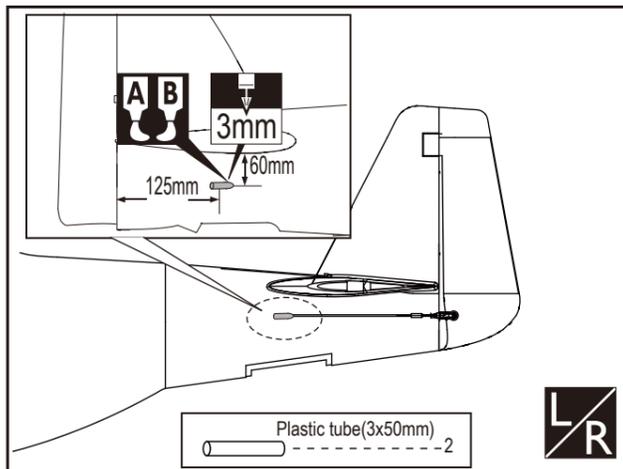
51 Assemble the rudder servo to appropriate position in the fuselage.



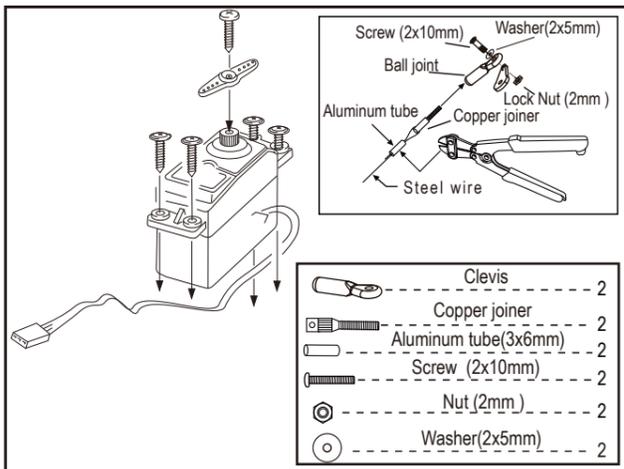
54 Connect the linkage and the horn on the rudder.



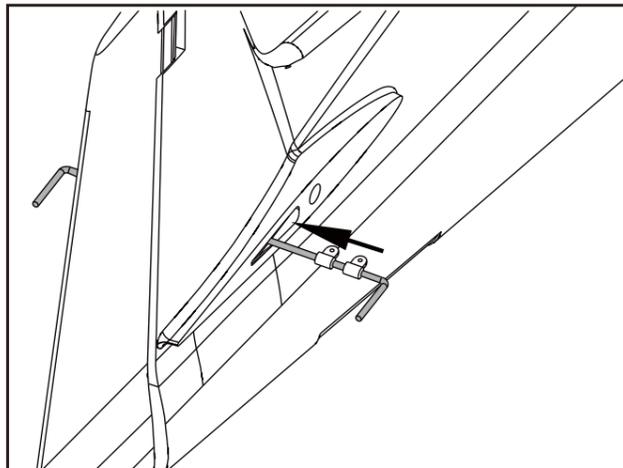
52 Epoxy the plastic tube to relevant position in the fuselage.



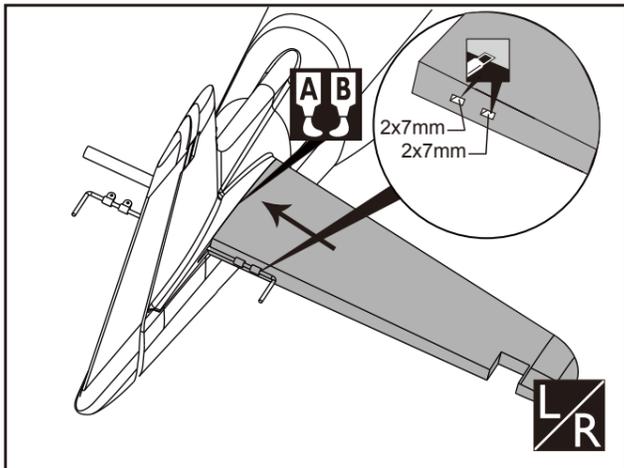
55 Assembly of the elevator servo.



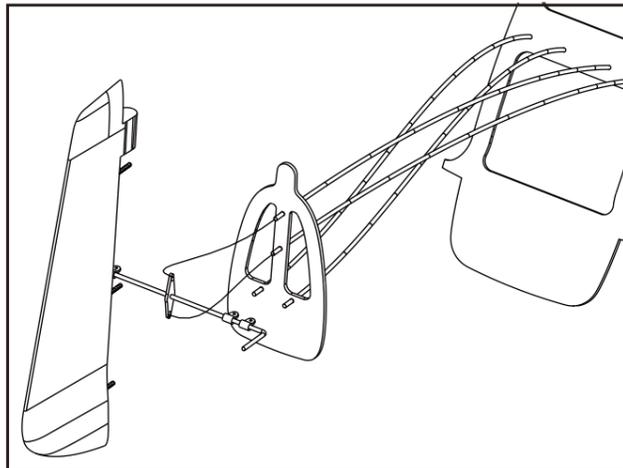
33 Set the U-style wire through the tail of fuselage as below.



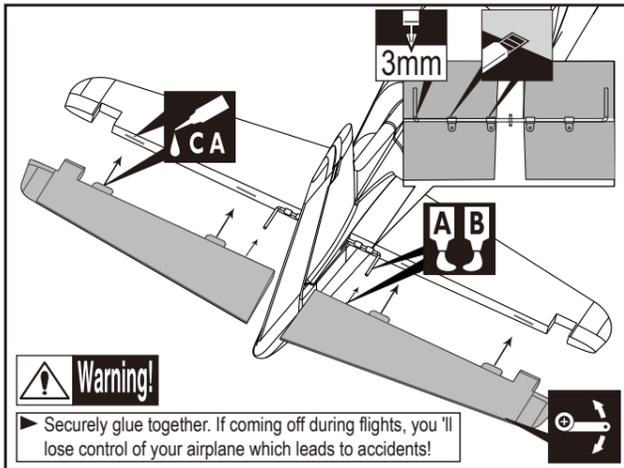
36 Drill holes to appropriate position in the stabilizer and epoxy it to the fuselage as below.



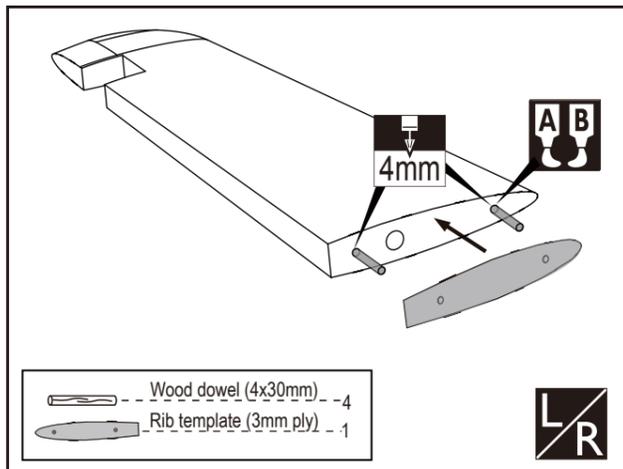
34 The sketh amp of the steel wires in the fuselage



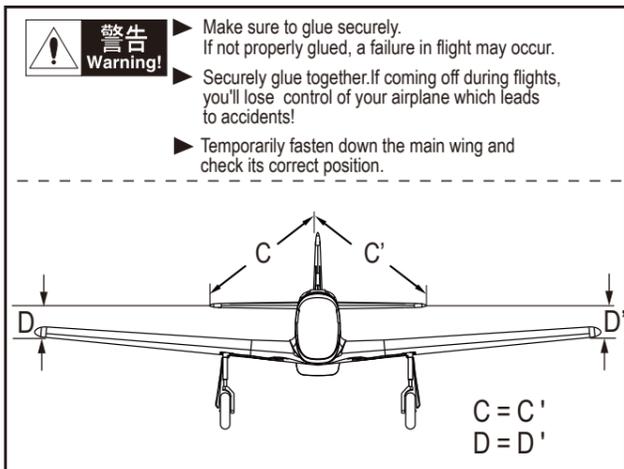
37 Glue the elevator to the stabilizer by CA and epoxy.



35 According to the rib template drill holes to the stabilizer and epoxy wooden dowels in them.



38 Assembly of the stabilizer.



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

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

AB Apply epoxy glue. **LR** Assemble left and right sides the same way. **Hand icon** Pay close attention here! **Warning 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.

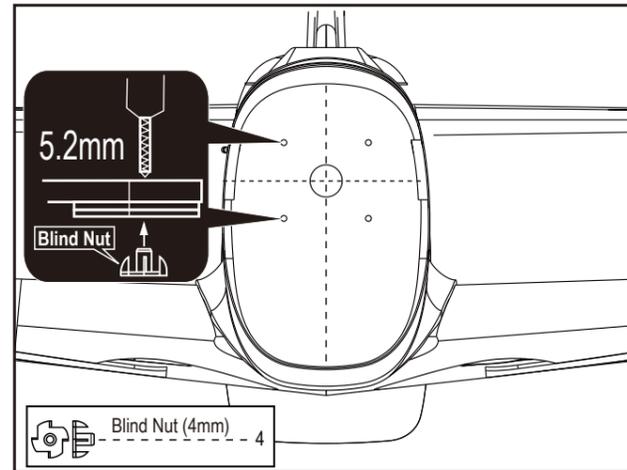


Accessory list for the coming installation steps.

| | | | | | |
|--|------------------------|---|--|-------------------------|----|
| | Washer(2x5mm) | 4 | | Blind Nut (4mm) | 4 |
| | Clevis | 4 | | Clevis | 1 |
| | Copper joiner | 4 | | Fuel tank (550cc) | 1 |
| | Aluminum tube(3x6mm) | 4 | | Screw (4x35mm) | 4 |
| | Screw (3x10mm) | 4 | | Screw (4x25mm) | 4 |
| | Nut (2mm) | 4 | | Washer(4x8mm) | 12 |
| | Clevis | 2 | | Spring Washer (4mm) | 4 |
| | Washer(3x15mm) | 2 | | Nut (4mm) | 4 |
| | Lock Nut (3mm) | 2 | | Linkage Stopper | 2 |
| | Screw (3x65mm) | 1 | | Engine mount (68x105mm) | 2 |
| | Plastic tube (2x400mm) | 1 | | | |

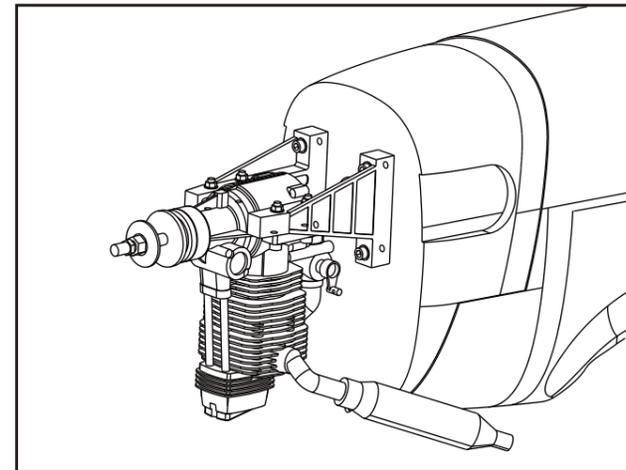
41

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



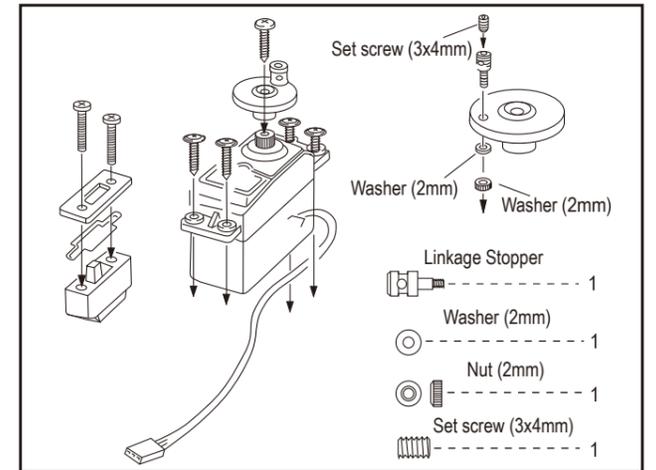
44

The sketch map when the engine install completion.



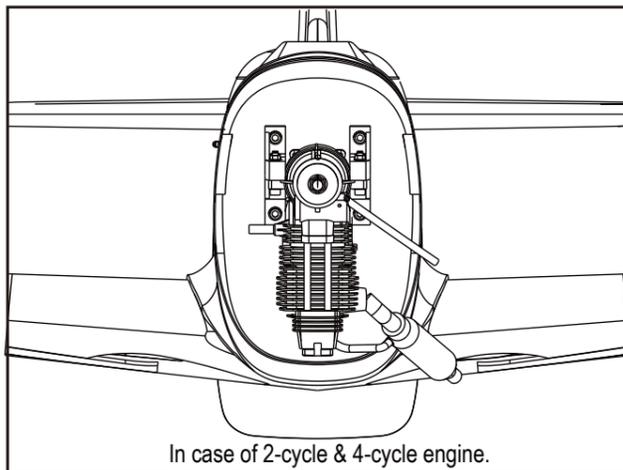
47

Install the switch and the throttle servo



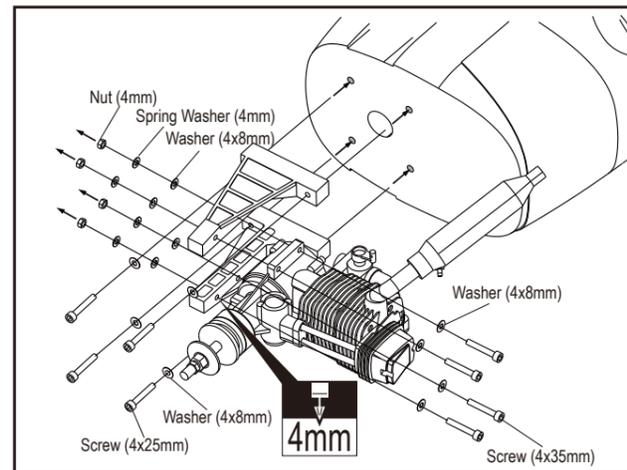
39

The front view of the engine install completion



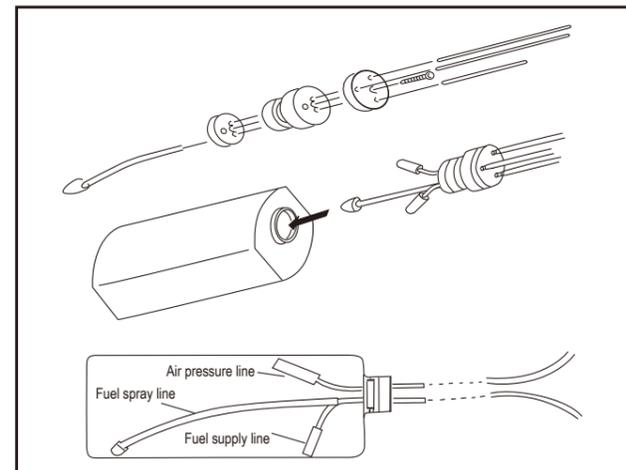
42

Assemble the engine.



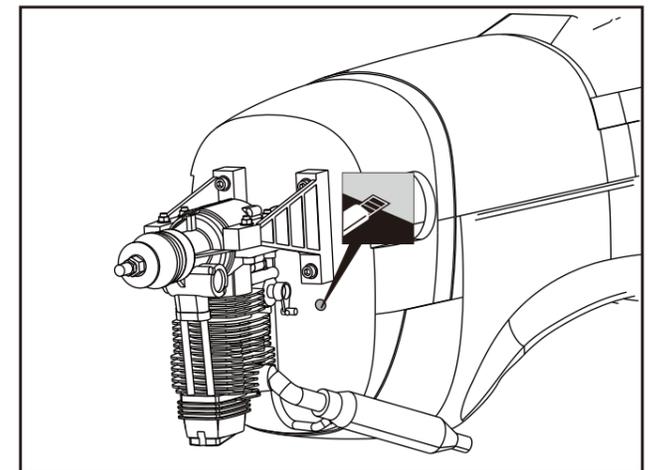
45

Assembly of the fuel tank.



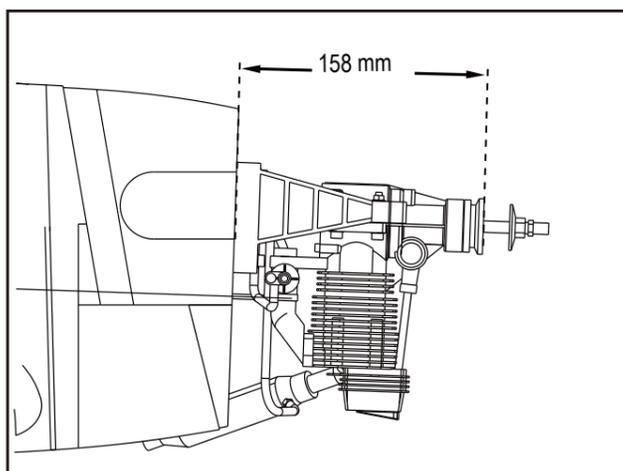
48

Drill a small hole in appropriate position for throttle.



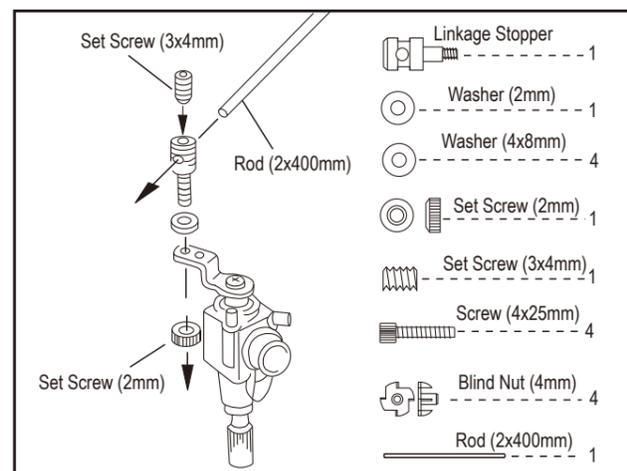
40

The side view when the engine install completion.



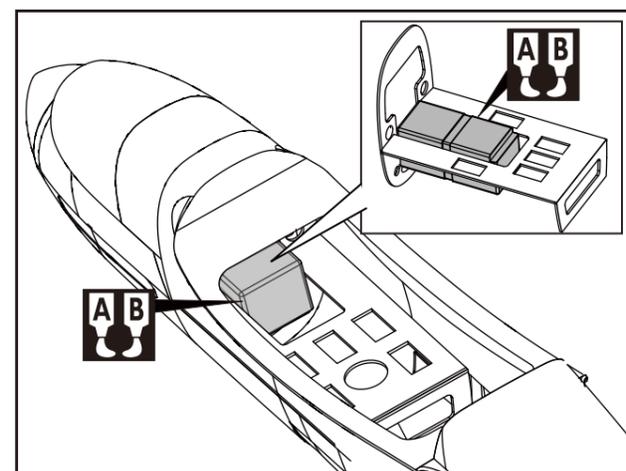
43

Assemble the throttle linkage.



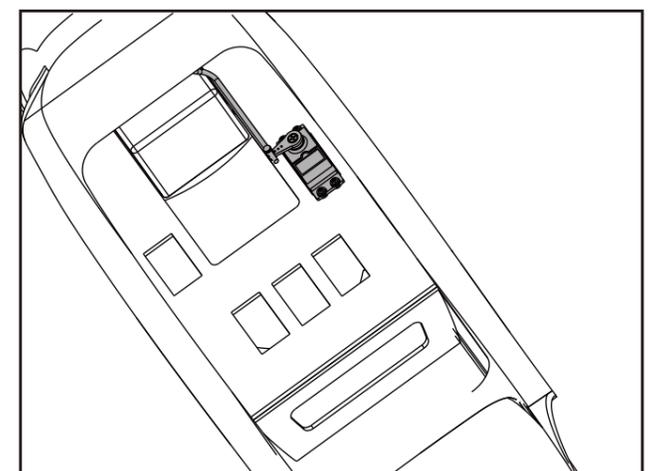
46

Epoxy the fuel tank in the fuselage. Notice the position of the fuel tank in the fuselage.



49

Install the throttle servo to appropriate position in 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.



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.