# Before use, please carefully read the instructions!


For intermediate & advanced fliers

## INSTRUCTION MANUAL

ARF

## *ALMOST READY-TO-FLY*

RADIO CONTROLLED 2c~91 4c~91-120.ENGINE POWERD SCALE AIRPLANE

## SPECIFICATIONS

WINGSPAN..... 1776mm(70")
WEIGHT..... 4500~4650g
LANGTH..... 1360mm(53.5")
WINGLOADING..... 85~88g $dm^2$
WINGAREA..... 53.2$dm^2$
AIRFOIL..... 15% Semi Symmetrical
ENGINE..... 2c~91 4c~91-120
RADIO..... 5~6 Channel 6~7 Servos

## ⚠ SAFETY PRECAUTIONS

**This radio control model is not a toy!**

First time builders should seek advice from experienced aeromodellers in order to produce a model that will be safe and straightforward to fly.
Assemble the model out of the children` s reach.
Before flight check all aspects of the models structure for wear and damage.
Remember that the pilot is responsible for the safe operation of the model.
Flying should be conducted well away from people, property and livestock.
Retain the instruction manual for future reference after the model has been completed.

## BEFORE YOU BEGIN

Assemble left and right sides the same way.

Must be purchased separately!

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

Cut off shaded portion

Apply epoxy glue

Pay close attention here!

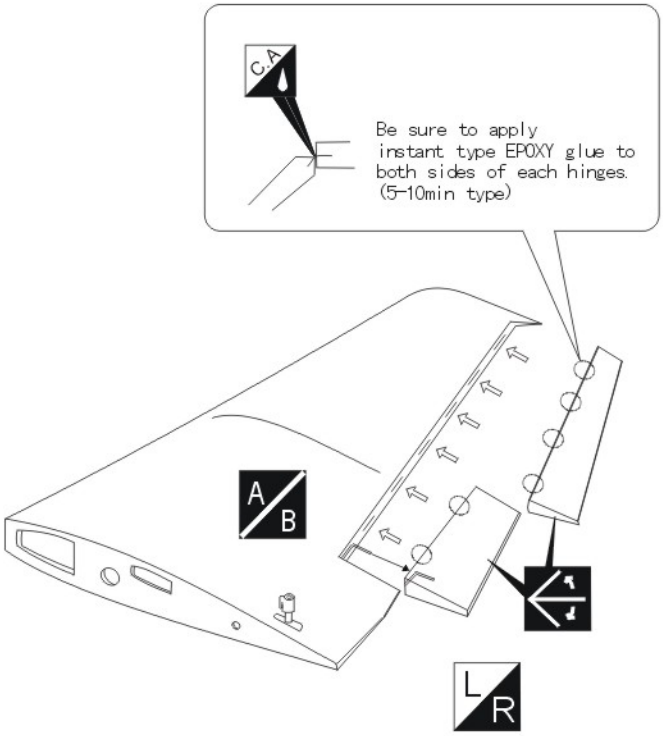
Ensure smooth non-binding movement while assembling

Apply instant glue(CA glue,super glue).

Warning!

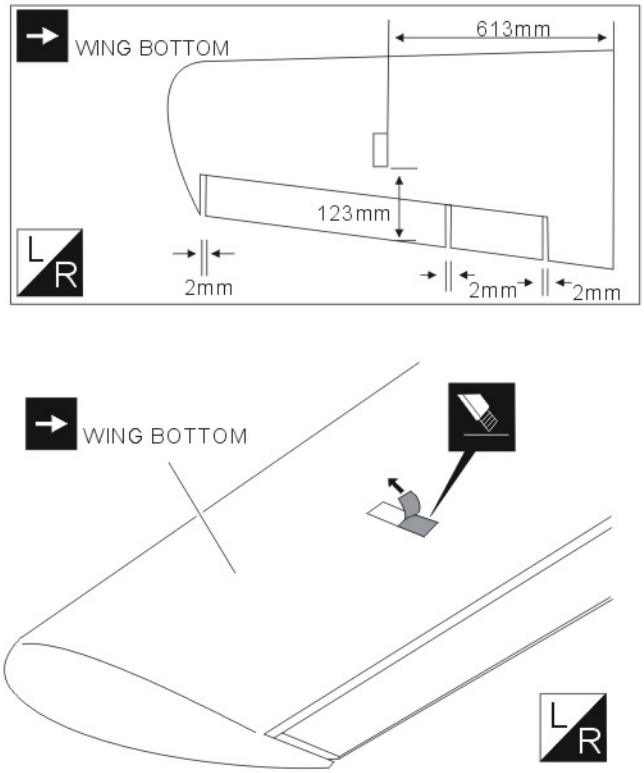
Do not overlook this symbol!

## 1 Main Wing




## 2 Main Wing

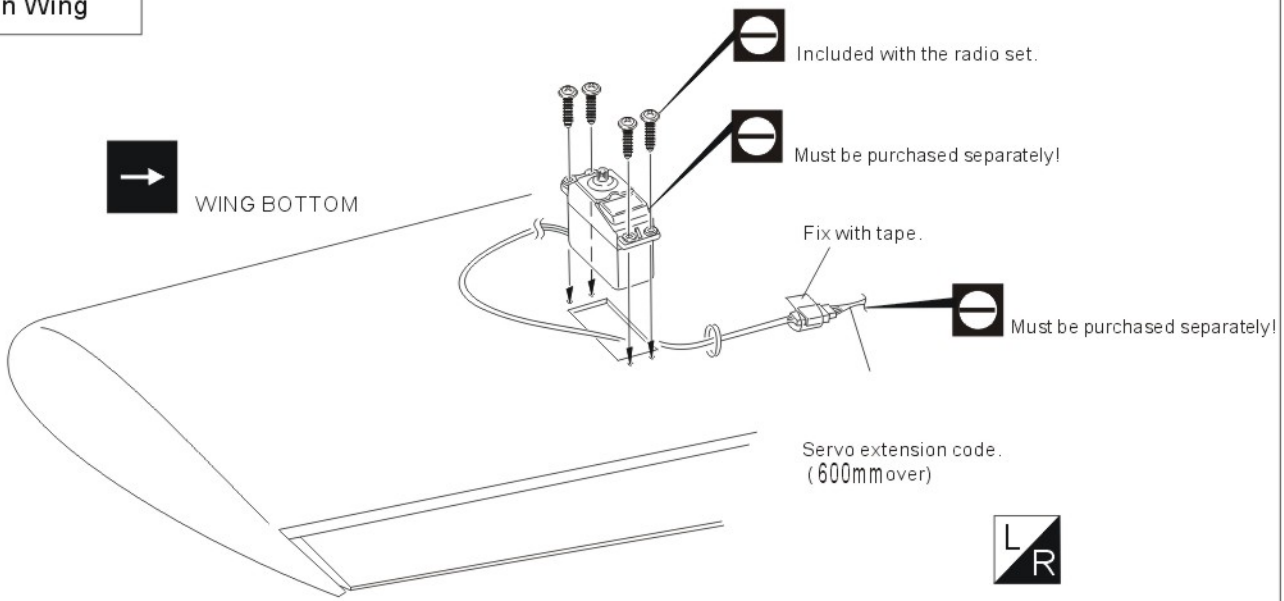
Cut away covering film.



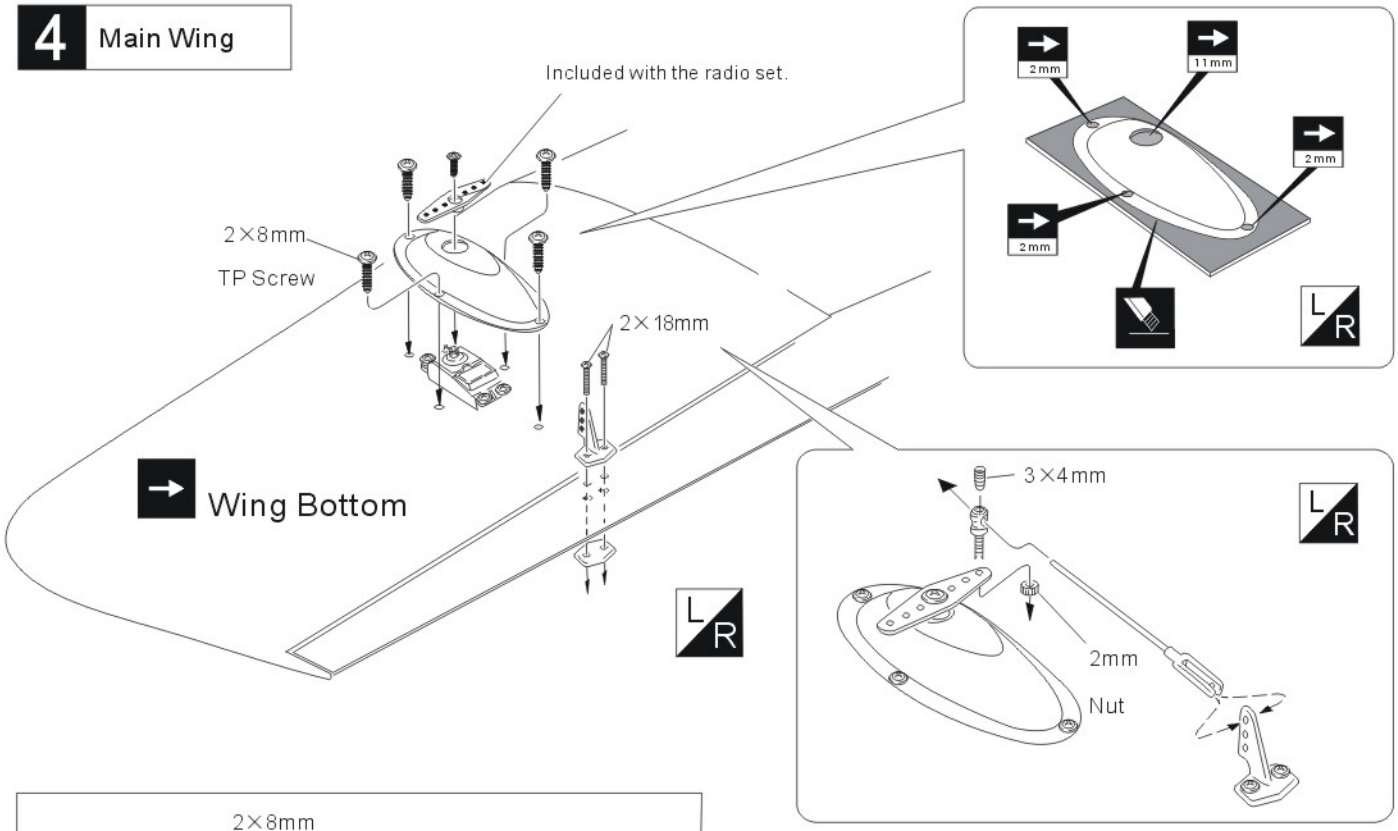




## 3 Main Wing

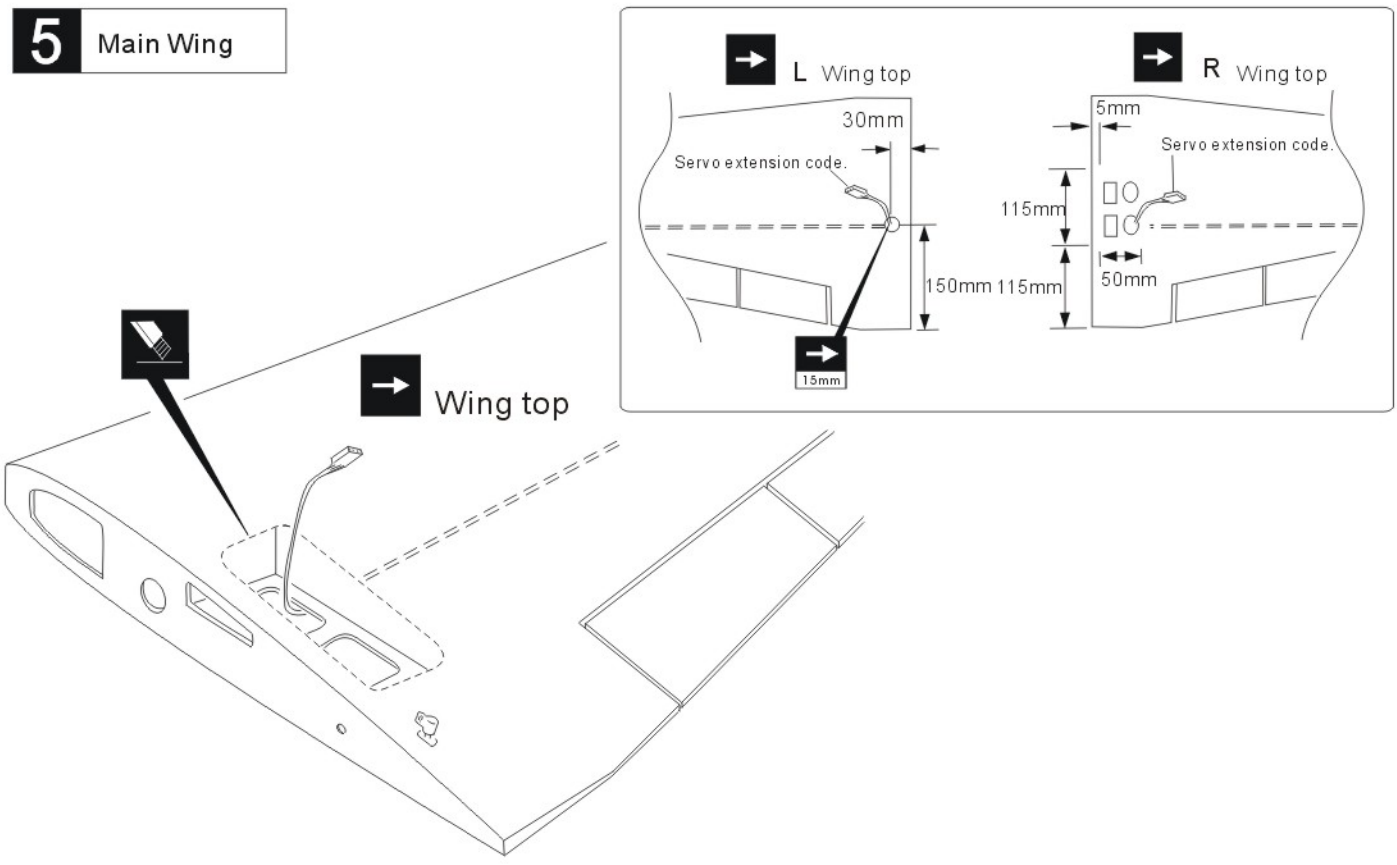


## 4 Main Wing




| | | | |
|---|---|---|---|
| 2×8mm TP Screw | 8 | Linkage Stopper | 2 |
| Rod adjuster | 2 | 2mm Nut | 2 |
| 2×18mm Screw | 4 | 3×4mm Set Screw | 2 |
| 2×100mm Rod | 2 | Horn | 2 |
| | | | 2 |

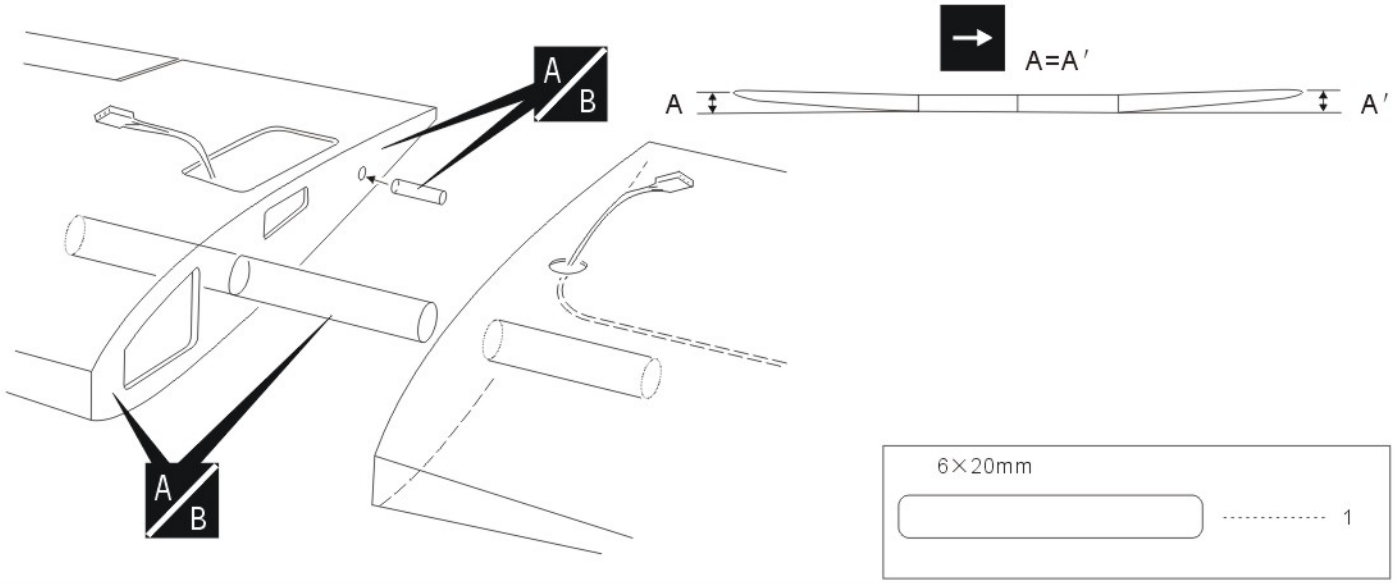
## 5 Main Wing



## 6 Main Wing

Warning!

Ensure the wing joints are glued securely.These joints are under high load during flight and any failure could result in severe accidents!

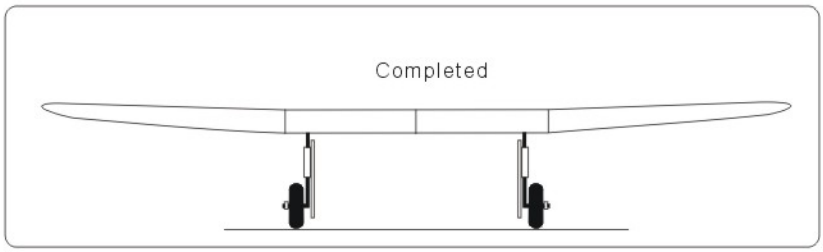


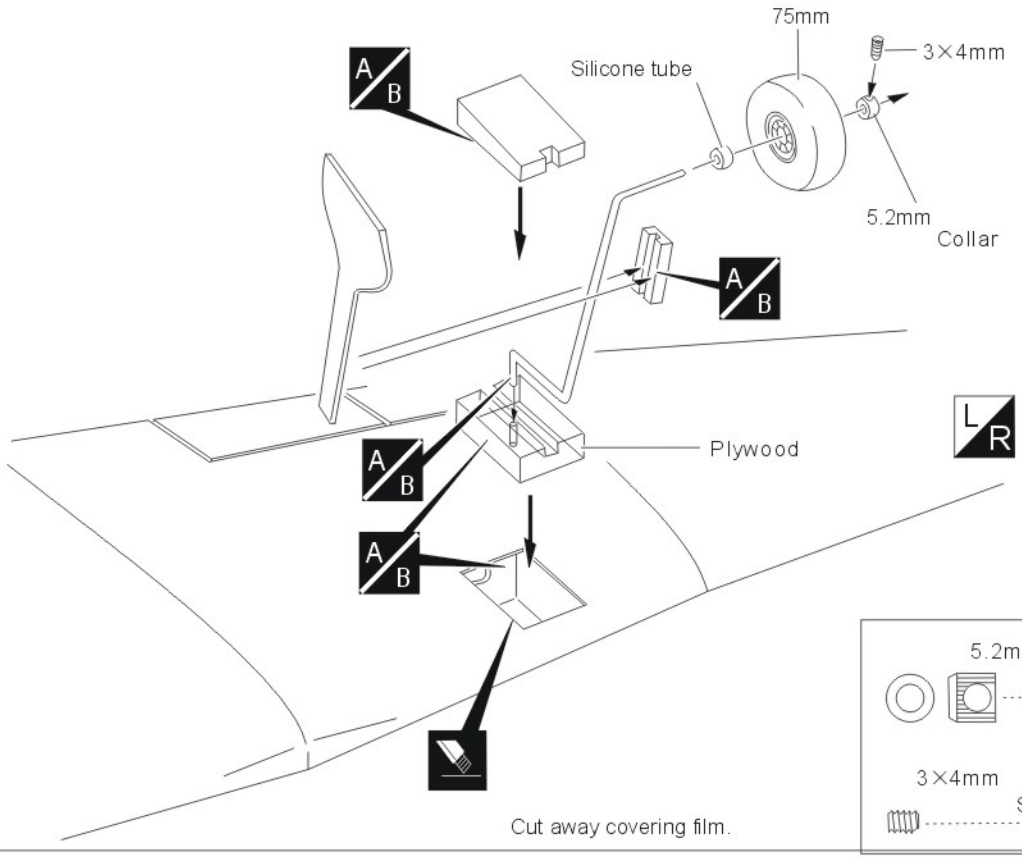

6×20mm — 1

## 7 Main Landing Gear

For Fixed landing gear.

Refer to 8 if a retracting undercarriage is to be fitted.

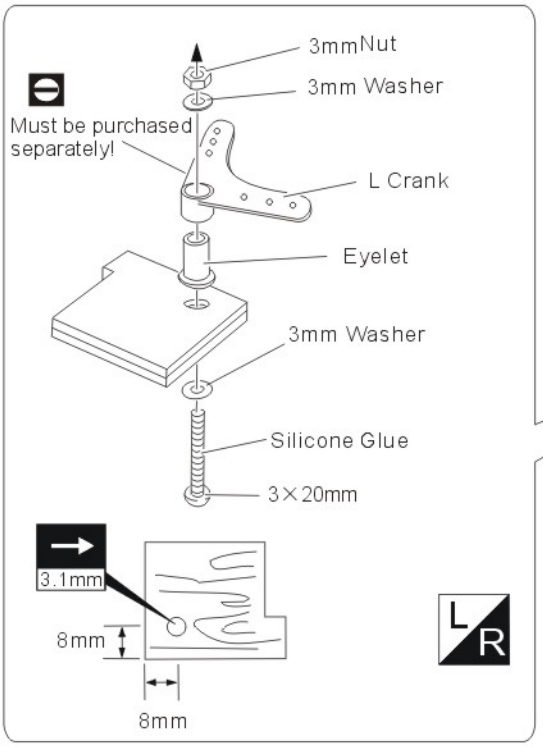


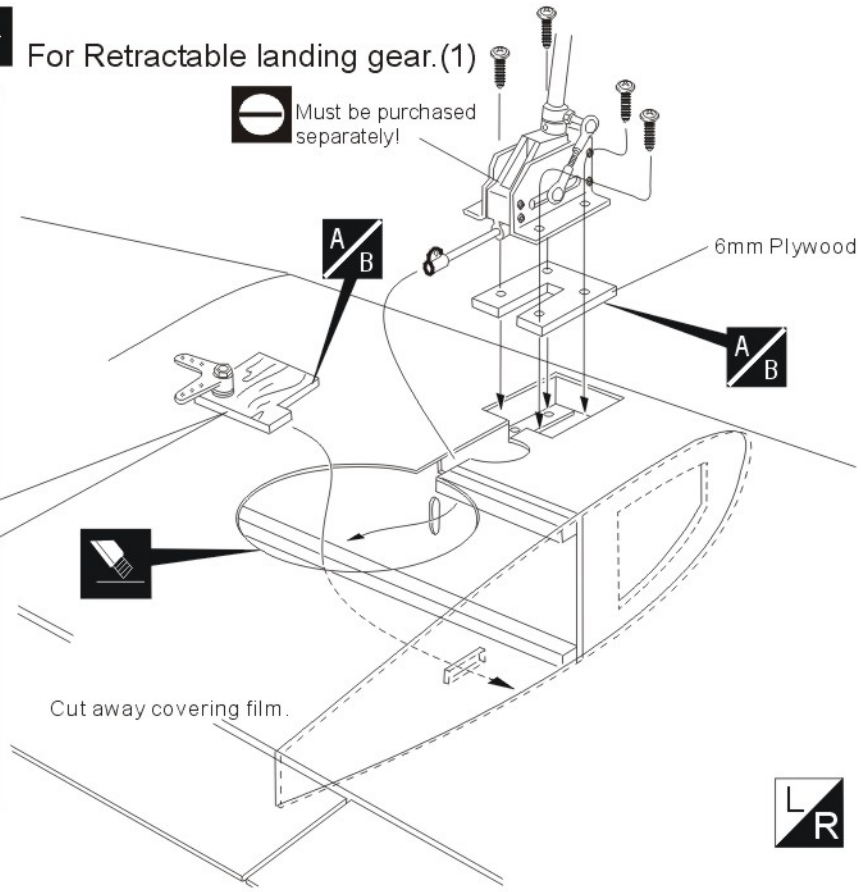

5.2mm Collar — 2

3×4mm Set Screw — 2

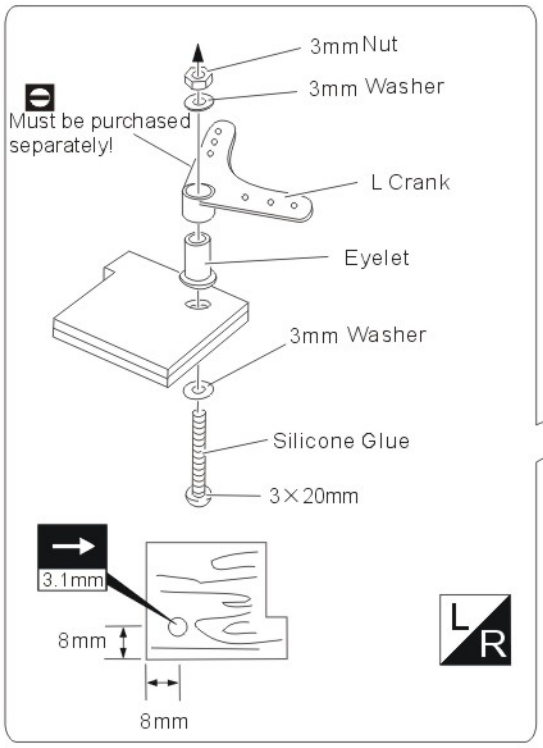
## 8 Main Landing Gear

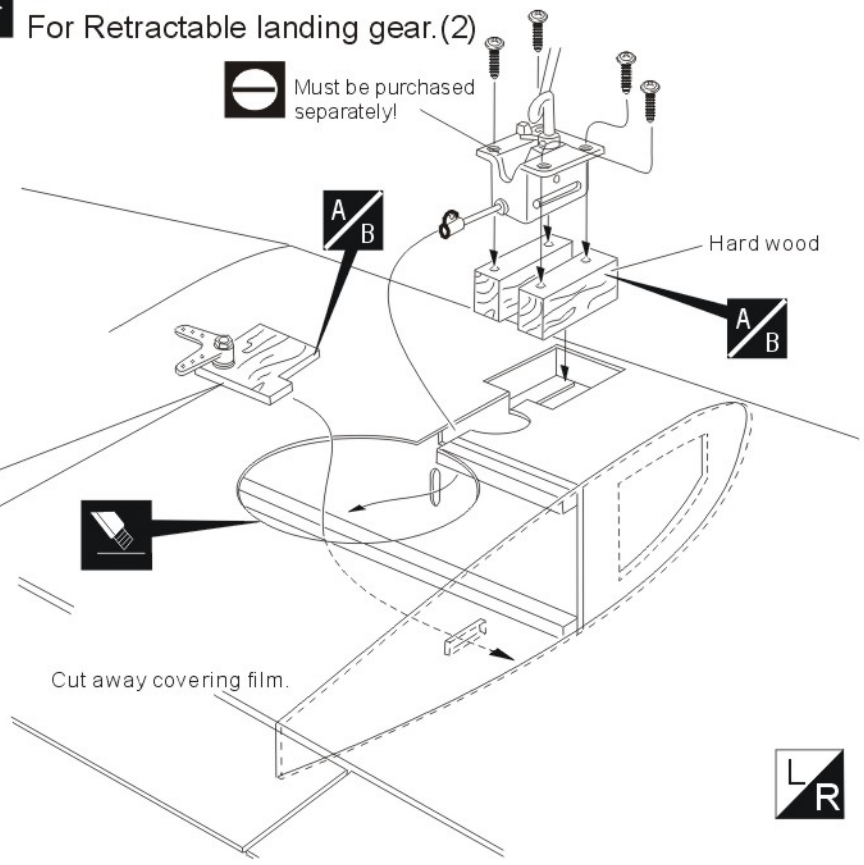


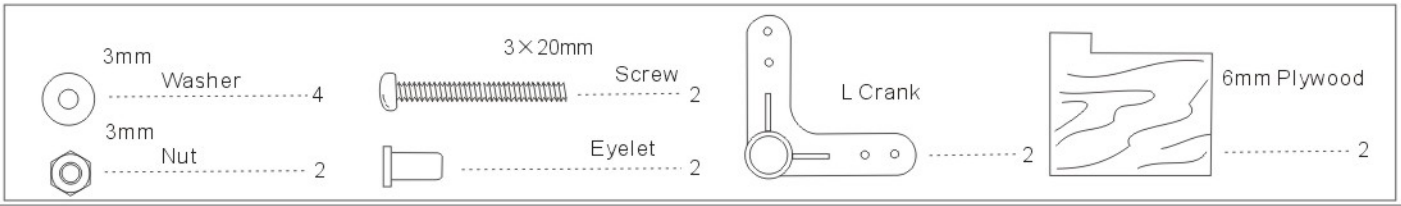

### For Retractable landing gear.(1)




### For Retractable landing gear.(2)

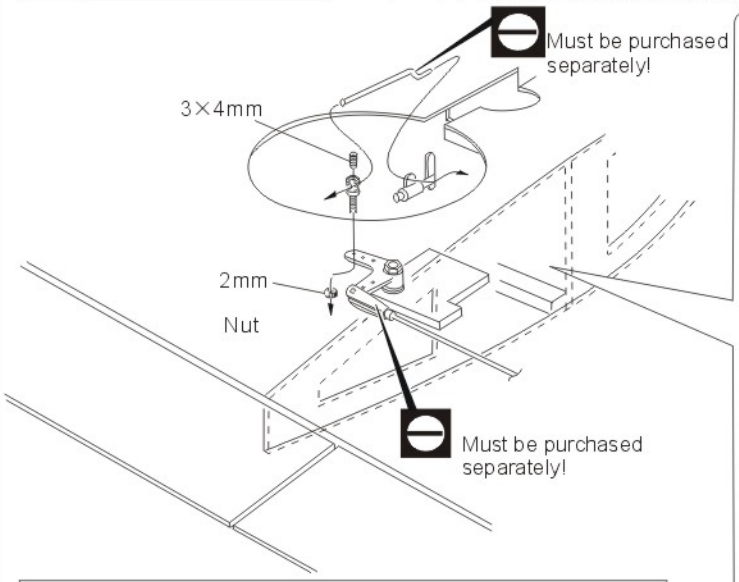


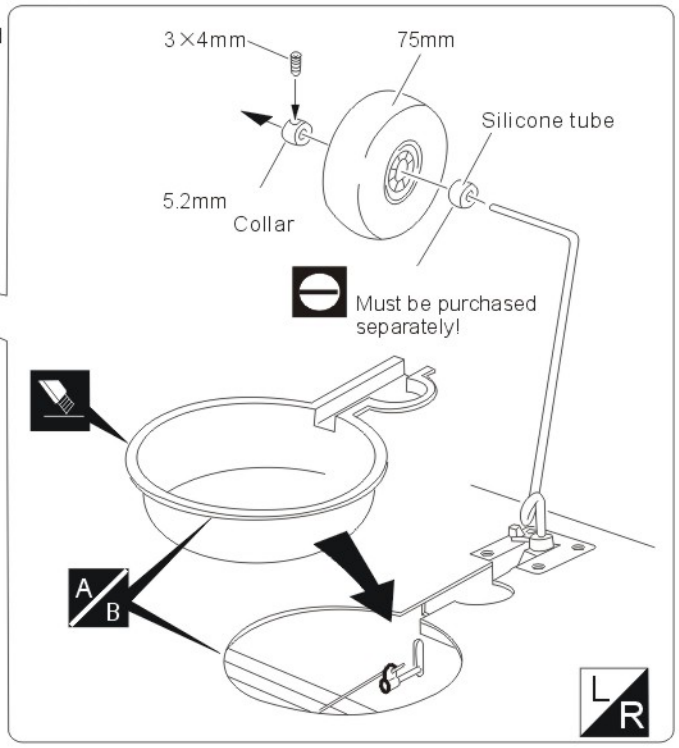



## 9 Main Landing Gear

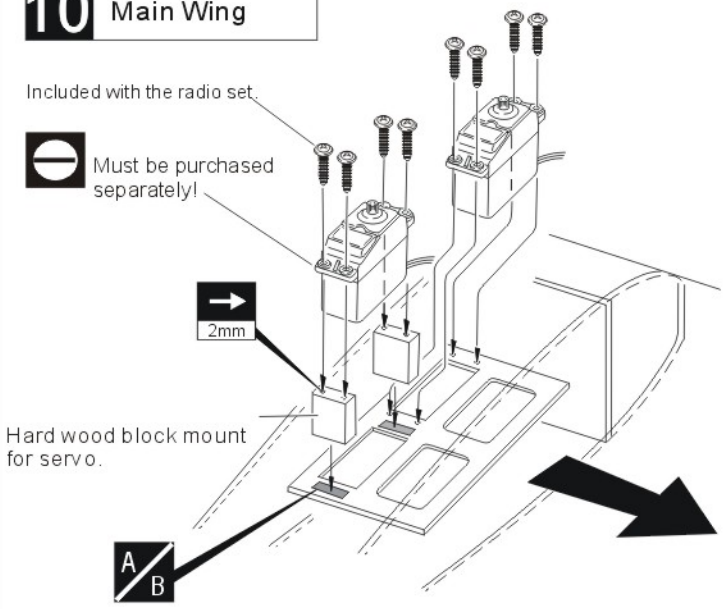
For Retractable landing gear.

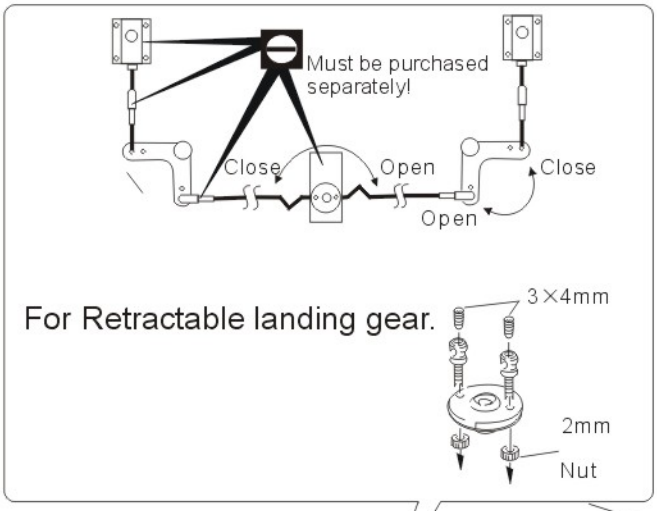


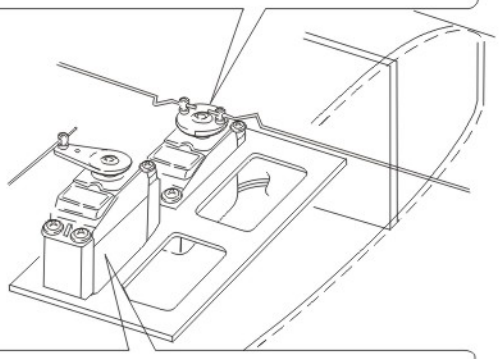




| | | | |
|---|---|---|---|
| Linkage Stopper | 2 | 3×4mm Set Screw | 2 |
| 2mm Nut | 2 | | |

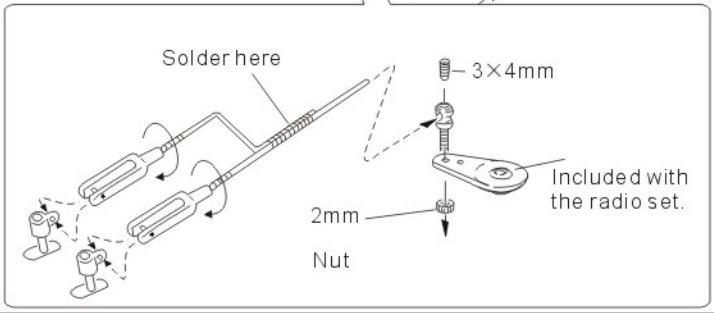
## 10 Main Wing



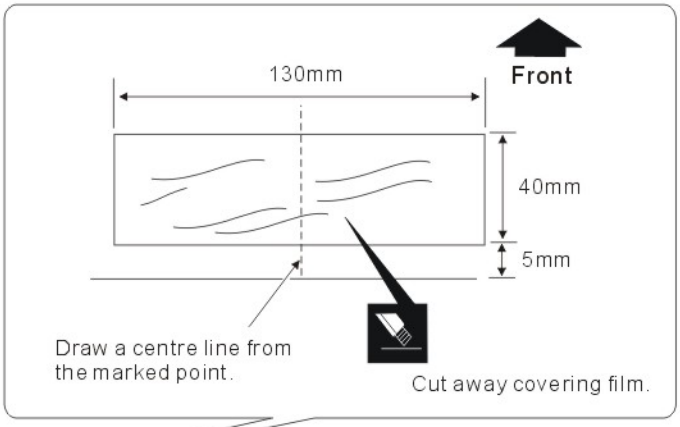
| | | | |
|---|---|---|---|
| Rod adjuster | 2 | Linkage Stopper | 3 |
| 2×140mm Rod | 2 | 2mm Nut | 3 |
| Hard wood | 1 | 3×4mm Set Screw | 3 |
| Hard wood | 1 | | |

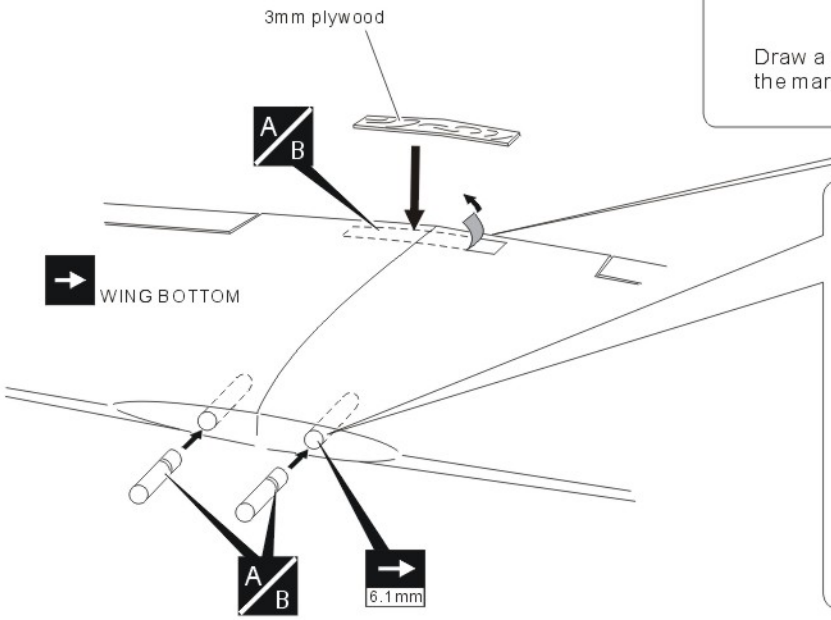


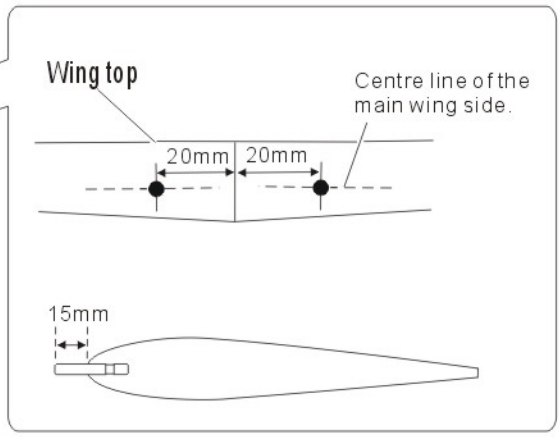
## 11 Main Wing

Warning!

Ensure the wing joints are glued securely.These joints are under high load during flight and any failure could result in severe accidents!

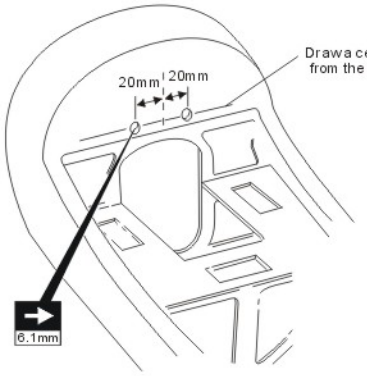


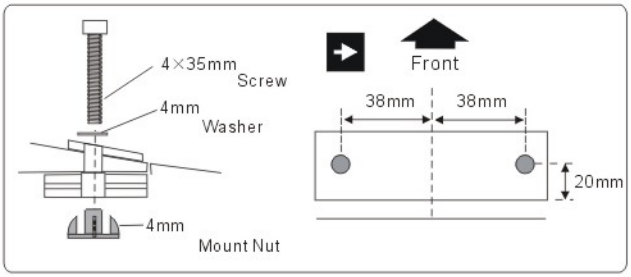



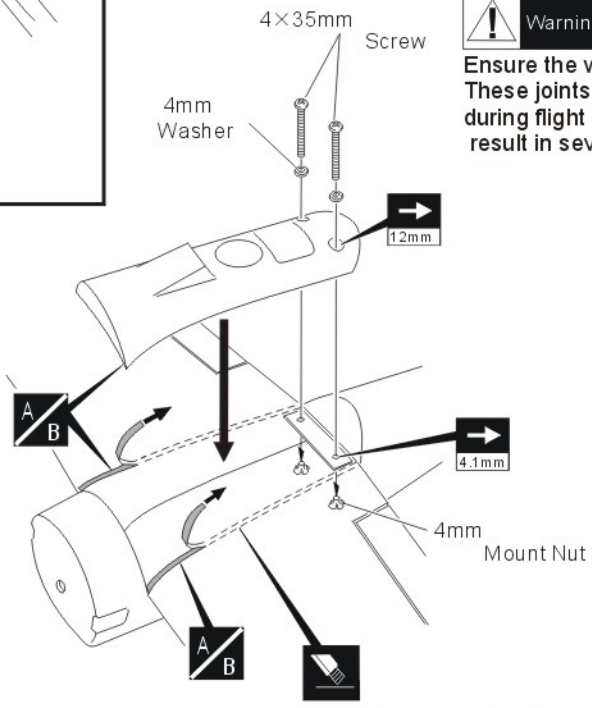




8×30mm ..... 2

## 12 Main Wing

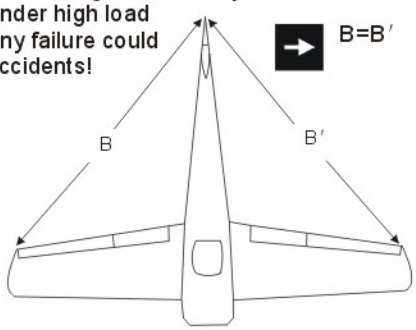



Warning!

Ensure the wing joints are glued securely. These joints are under high load during flight and any failure could result in severe accidents!




## 13 Main Wing

4×35mm Screw ..... 2

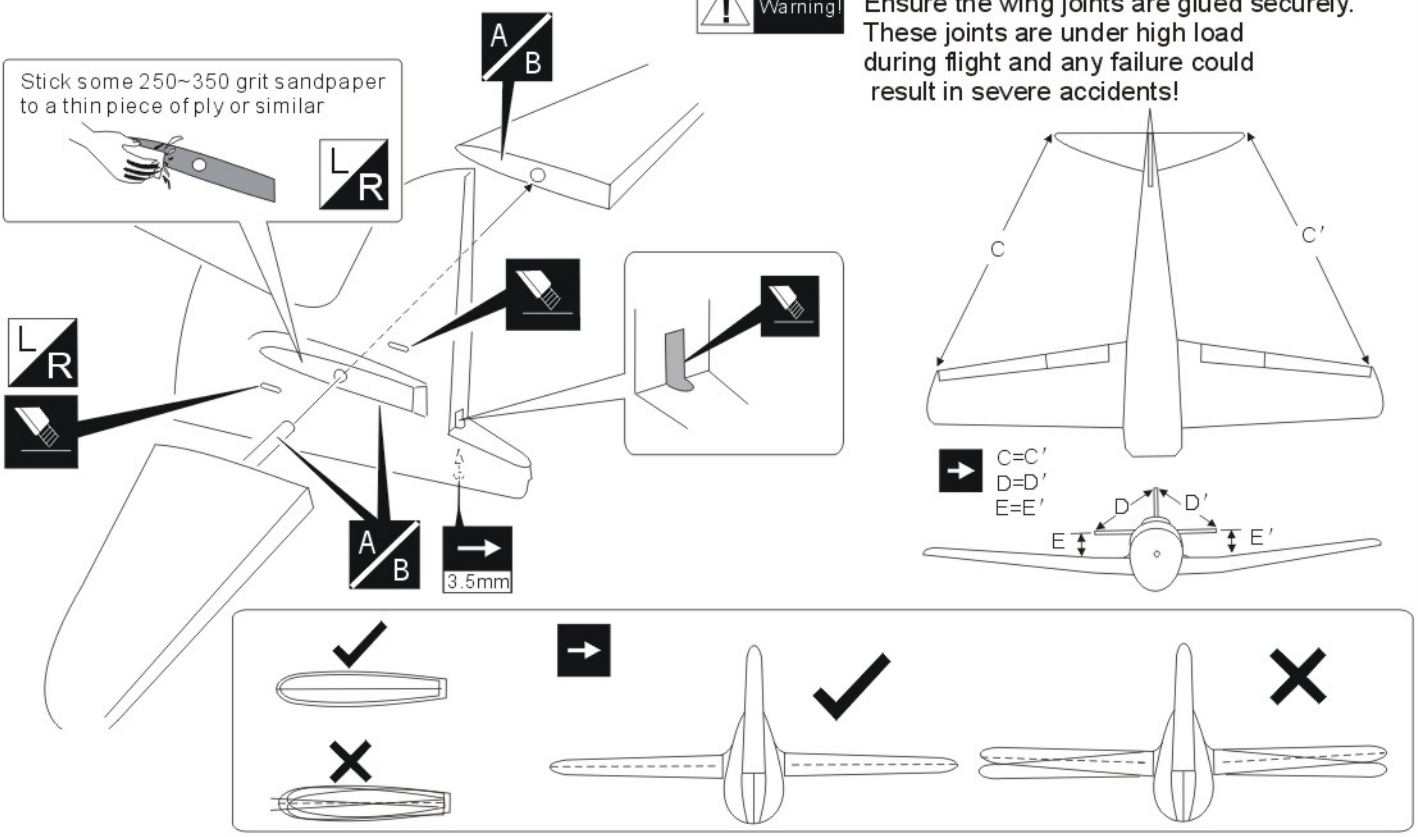
4mm Washer ..... 2

4mm Mount Nut ..... 2

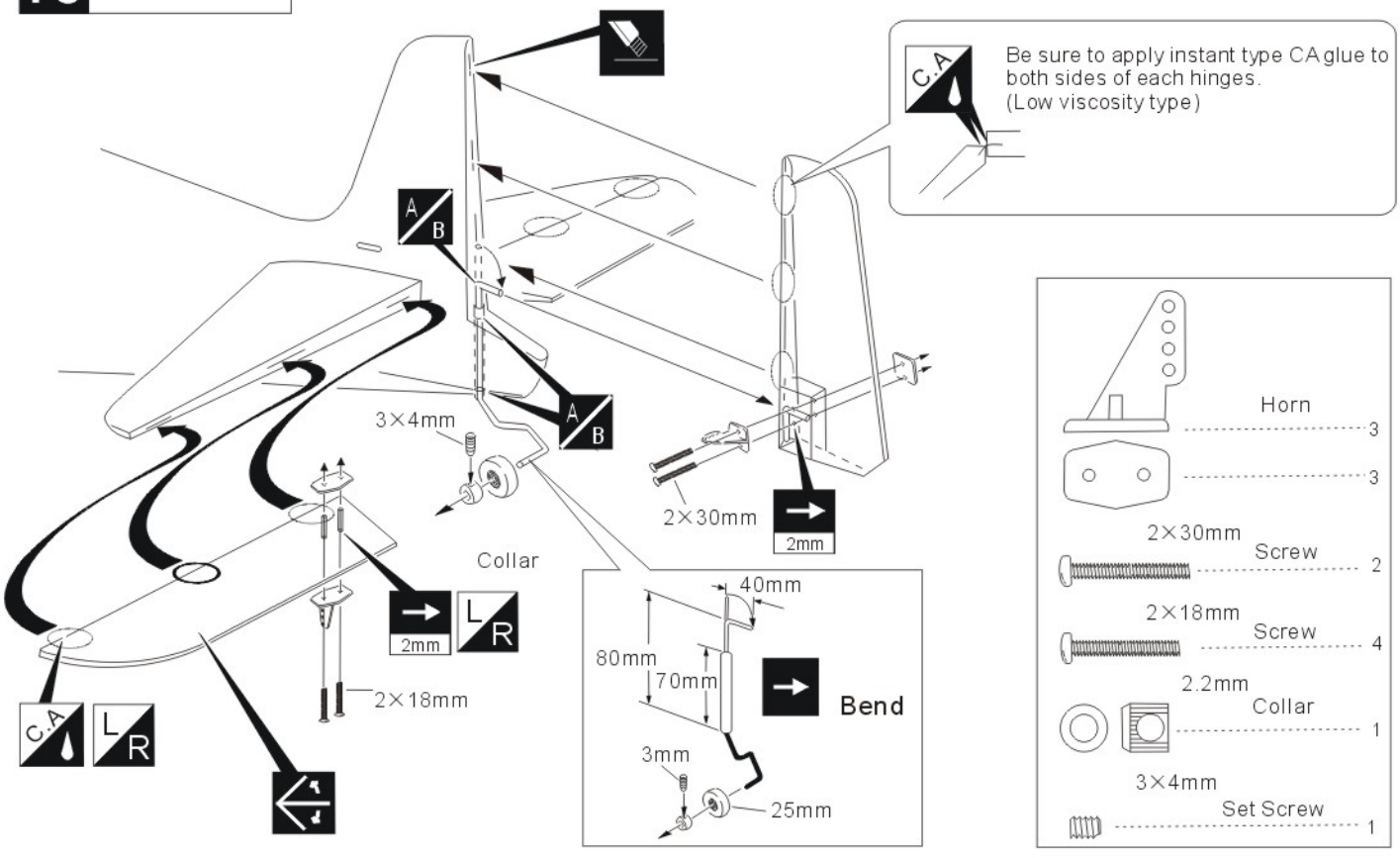
## 14 Tailplane

Warning!

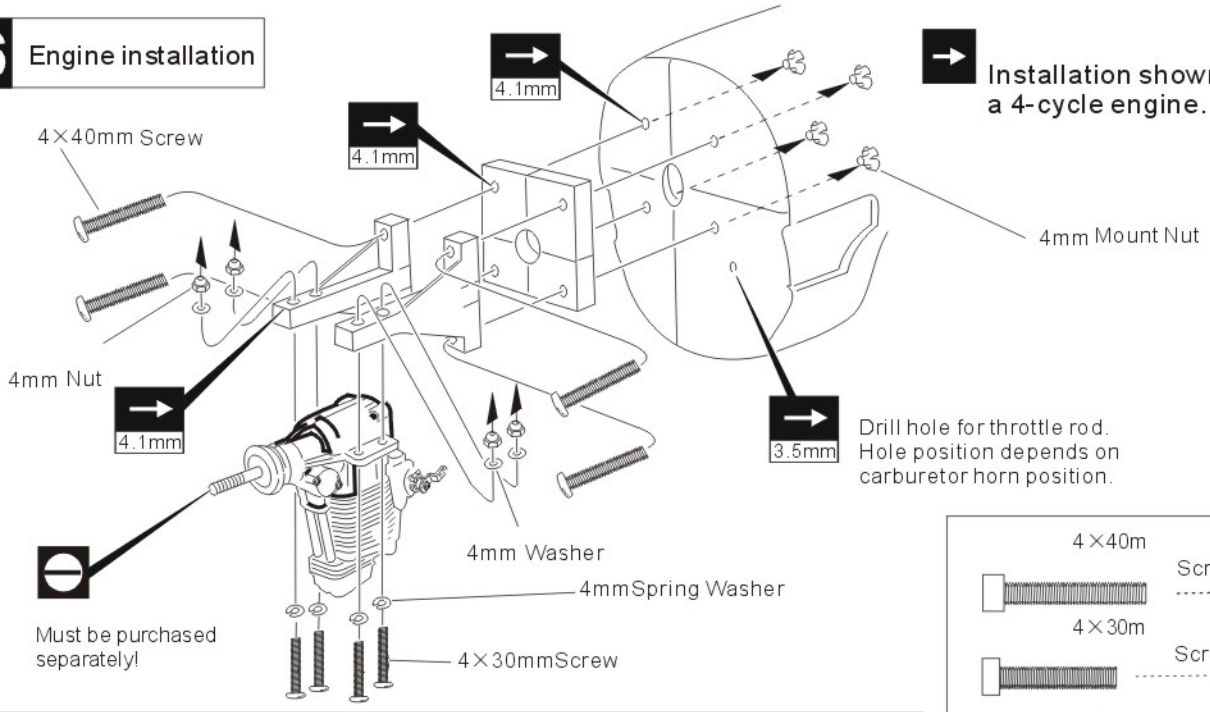
Ensure the wing joints are glued securely.
These joints are under high load
during flight and any failure could
result in severe accidents!



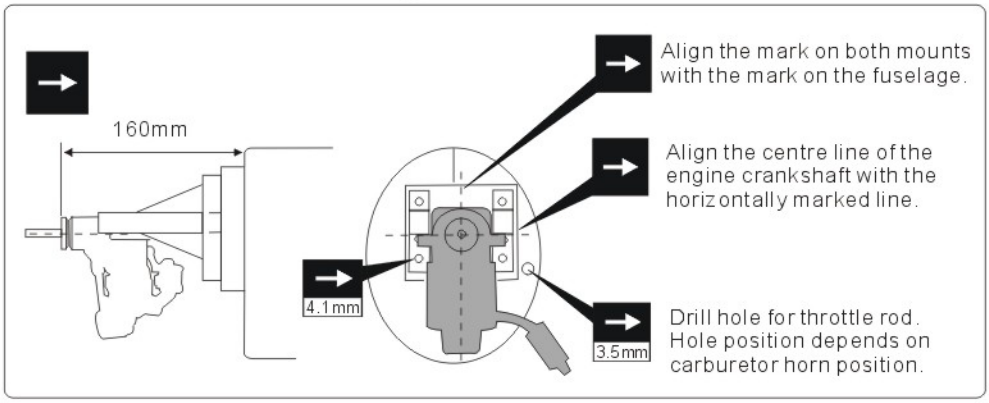

## 15 RUDDER

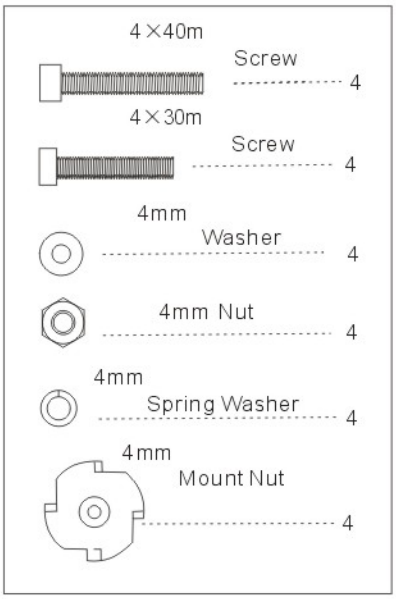


## 16 Engine installation

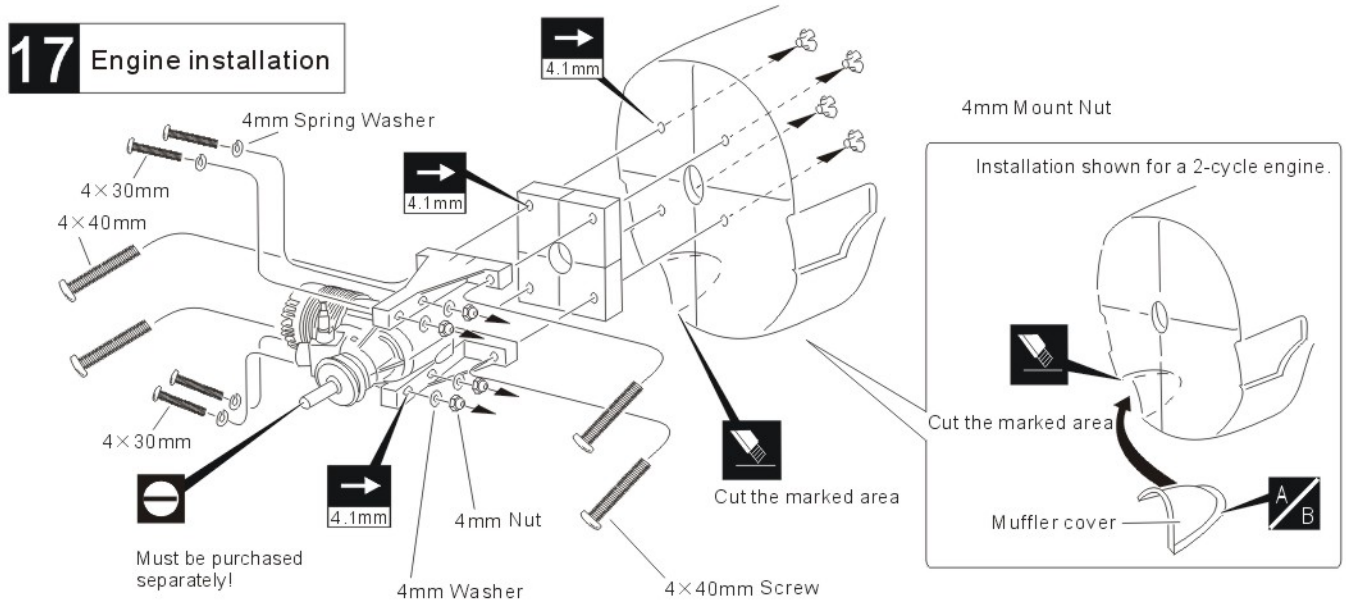



Installation shown for a 4-cycle engine.



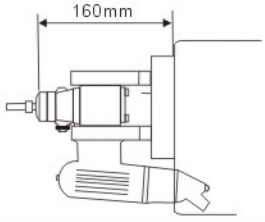

## 17 Engine installation

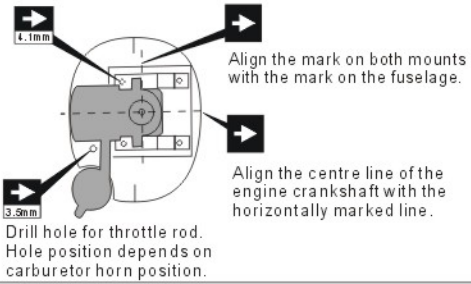




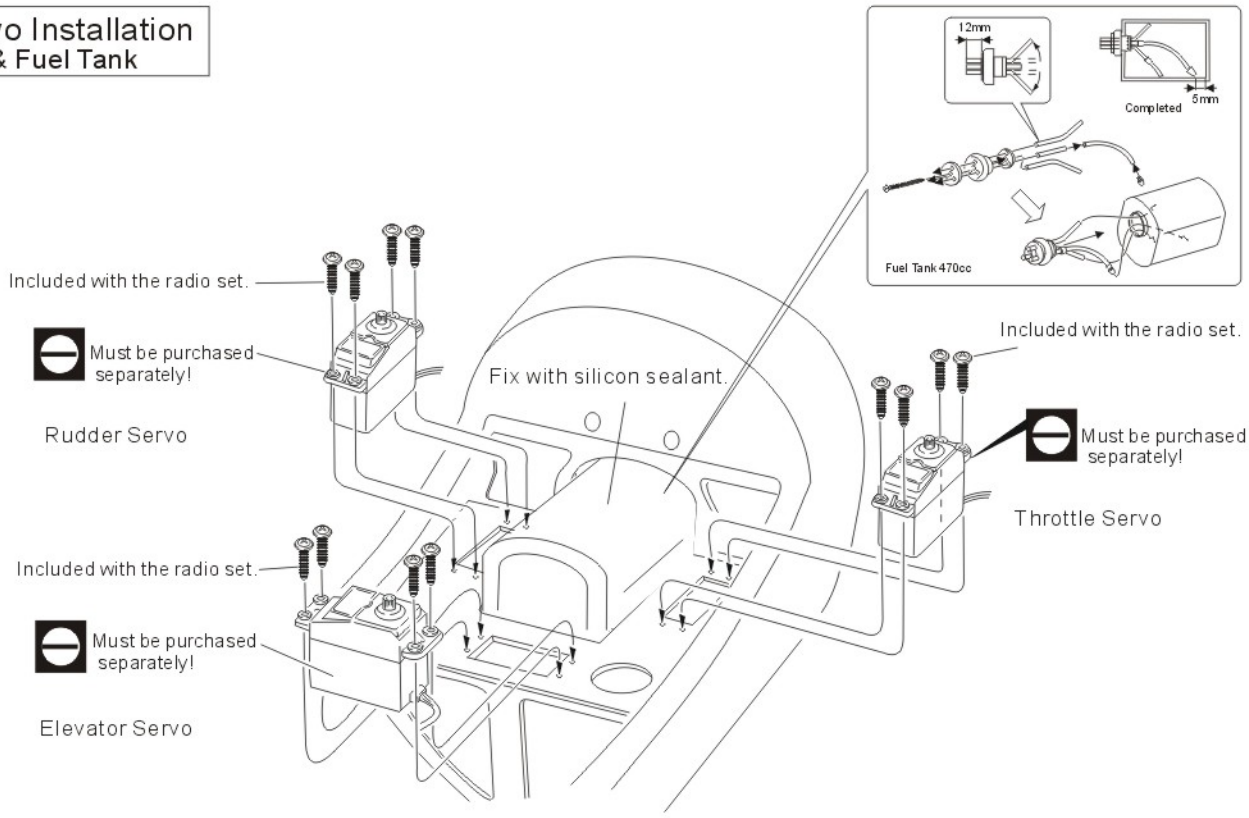


Installation shown for a 2-cycle engine.

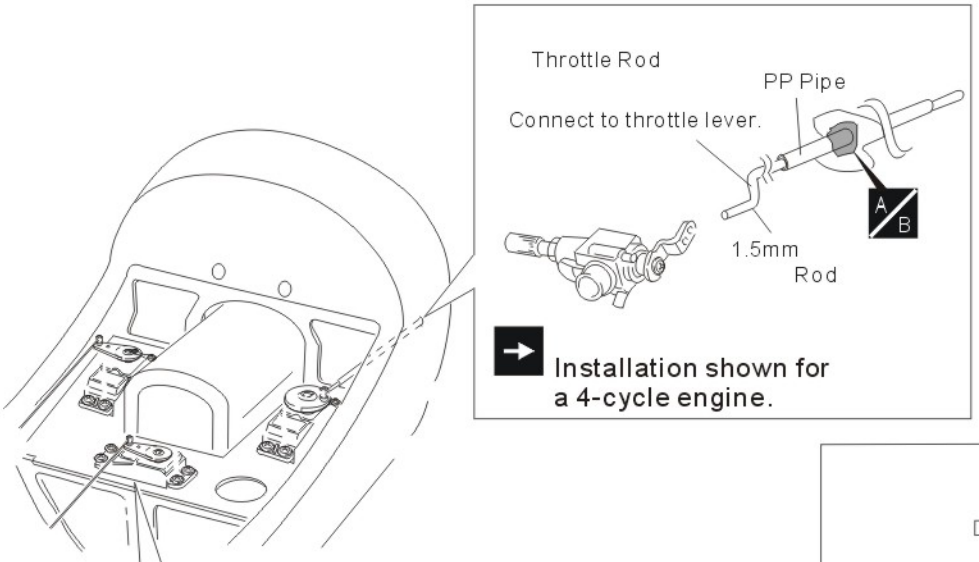


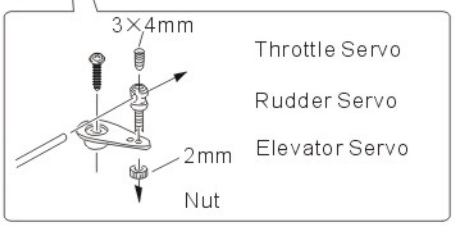



## 18 Servo Installation & Fuel Tank




## 19 Pushrods

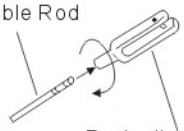




| | |
|---|---|
| 3×4mm Set Screw | 3 |
| Linkage Stopper | 3 |
| 2mm Nut | 3 |
| 2×900mm Rod | 2 |
| PP Pipe 3.5×300mm | 1 |
| 1.5×400mm Throttle Rod | 1 |

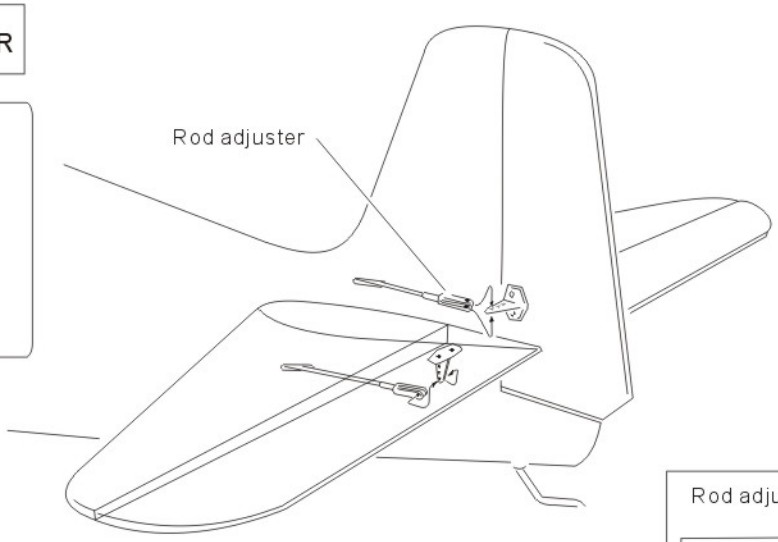
## 20 RUDDER ELEVATOR

2×900mm

Adjustable Rod

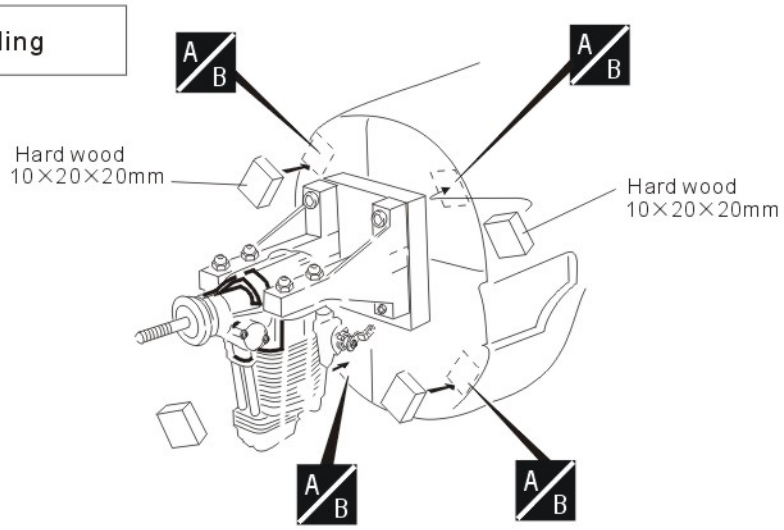


Rod adjuster



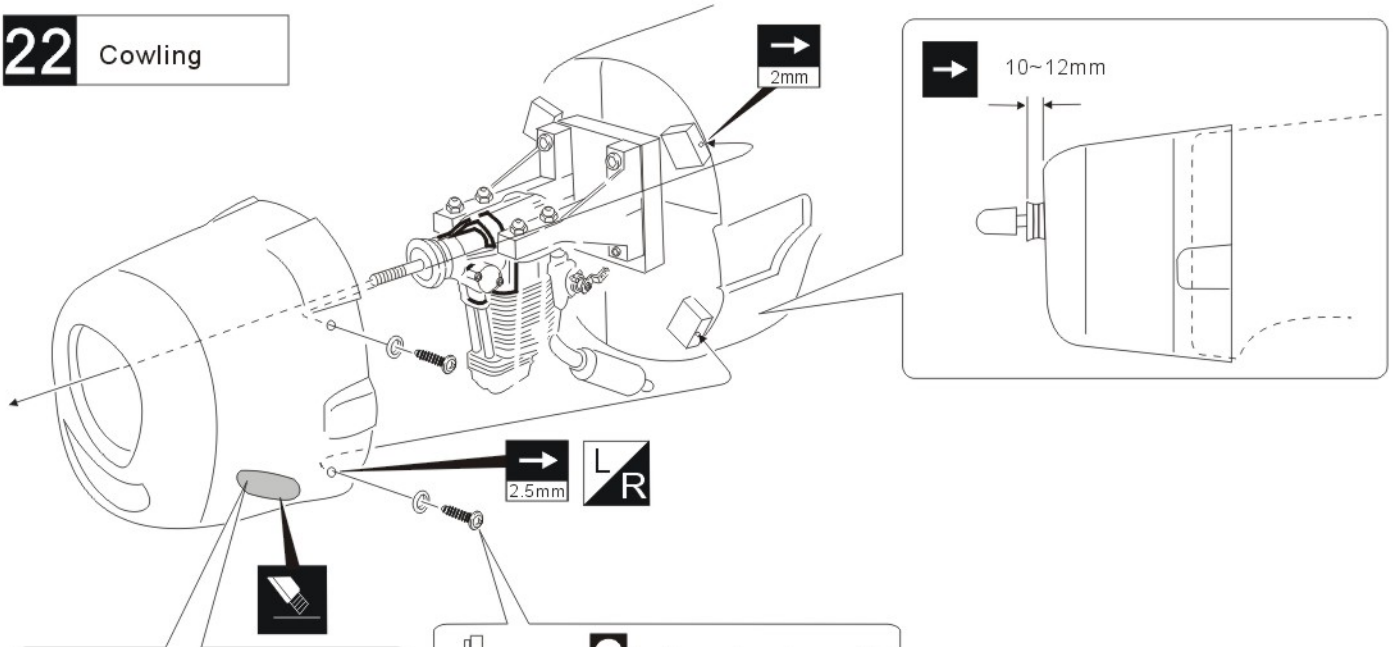

Rod adjuster ..... 3

## 21 Cowling



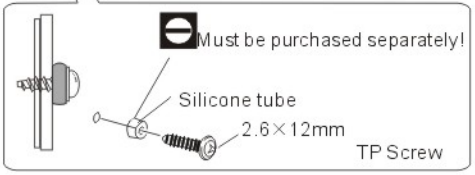

Hard wood
10×20×20mm ..... 4

## 22 Cowling



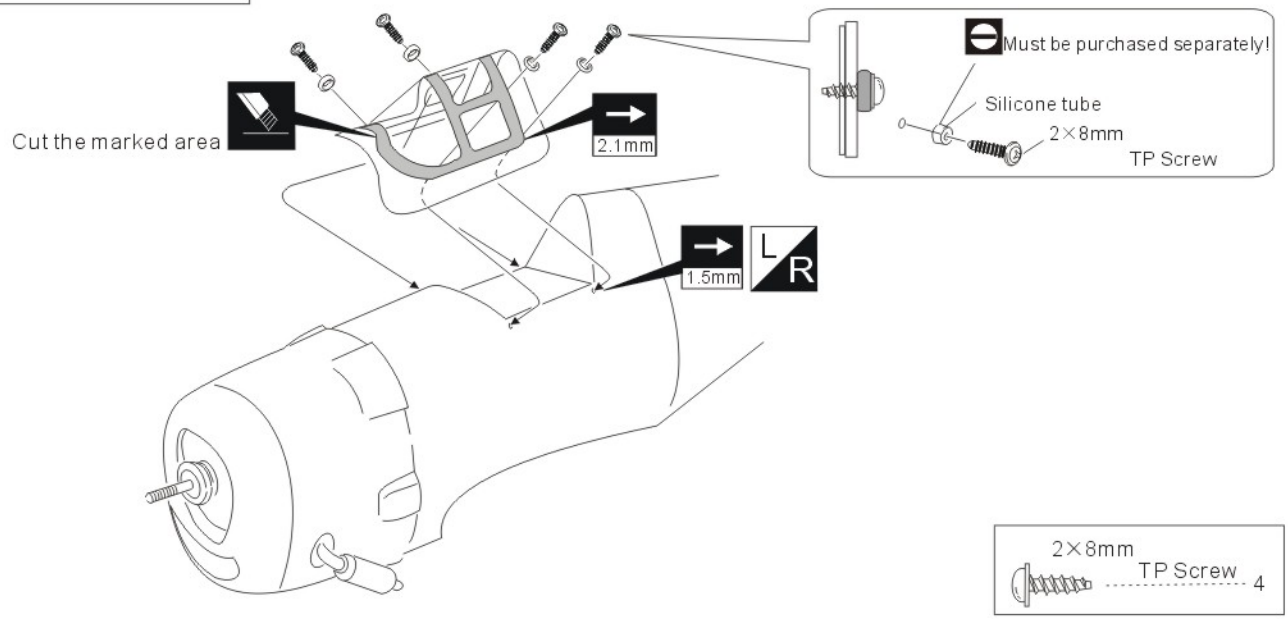

Cut the part which a muffler touch.

Installation shown for a 4-cycle engine.




2.6×12mm TP Screw ..... 4

## 23 Cockpit Canopy

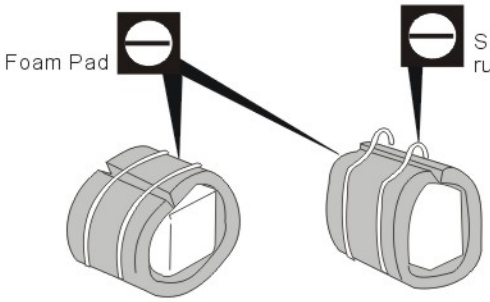



| | | |
|---|---|---|
| 2×8mm TP Screw | 4 | |

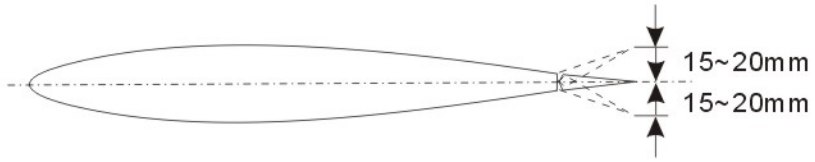
## 24 Control Surface Movement

Carefully install the receiver and battery pack to ensure that they will not shift during flight.

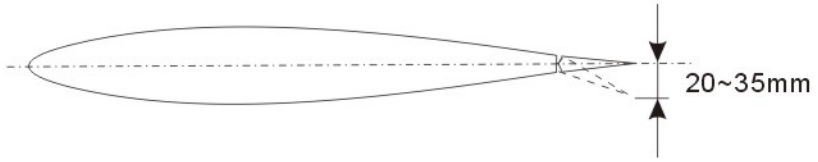
Shift the location of the receiver and battery pack as needed to obtain the specified CG.



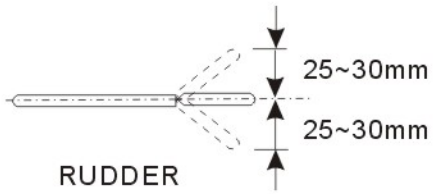

Adjust the travel of the control surfaces to achieve the values stated in the diagrams.
These values will be suitable for average flight requirements.Adjust the values to suit your particular needs.



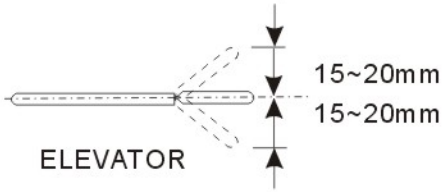

AILERON



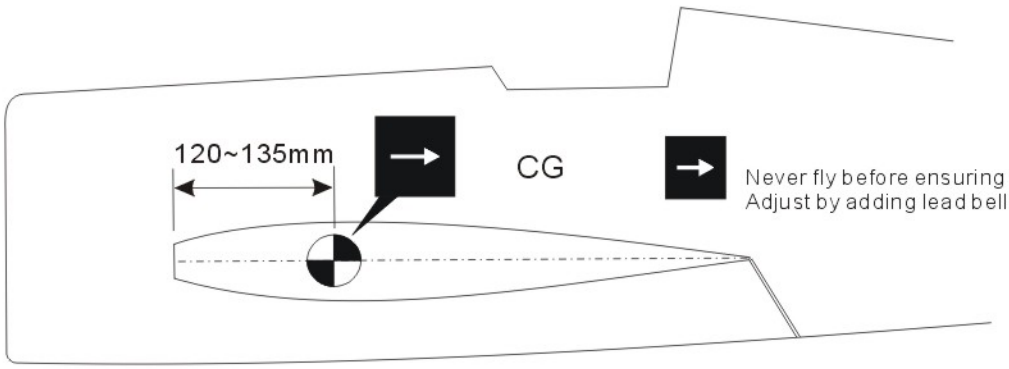

FLAP




RUDDER




ELEVATOR




Never fly before ensuring that the CG positions is correct.
Adjust by adding lead bellast,(firmly fixed),if needs be.