

# SUPER EMERAUDE 60

## INSTRUCTION MANUAL



**0.61 cubic inch displacement 2-cycle**

**0.70 cubic inch displacement 4-cycle**

**Radio required: 4 channels, 5 servos airplane radio.**

### Specifications

<b>Wing Span</b>	<b>72.0 in / 1830 mm</b>
<b>Wing Area</b>	<b>822 sq in / 53.0 sq dm</b>
<b>Flying Weight</b>	<b>8.0 lb / 3600 g</b>
<b>Fuselage Length</b>	<b>53.0 in / 1340 mm</b>

Specifications are subject to change without notice.

### **Warning! This model is not a toy.**

It is designed for maximum performance. Please seek advice if one is not familiar with this kind of engine powered precision model. Operating this model without prior preparation may cause injuries. Remember, safety is the most important thing. Always keep this instruction manual at hand for quick reference.

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# SUPER EMERAUDE 60

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## 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. Please **DRY FIT** and check for defects for all parts that will require CA or Epoxy for final assembly. Any parts you find to be defective after the gluing process may be difficult to remove for warranty replacement. The manufacturer will replace any defective parts, but will be difficult to extend to the good parts that are good before gluing to defective parts during assembly.
- 3** Symbols used throughout this instruction manual comprise of the following:-



Apply epoxy glue.



Apply instant glue  
(C.A. glue, super glue.)



Assemble left and right  
sides the same way.



Ensure smooth non-binding  
movement while assembling.



Peel off shaded portion  
covering film.



Cut off shaded portion.



Drill holes with the specified  
diameter(here:3mm)



Must be purchased separately!



Pay close attention here!

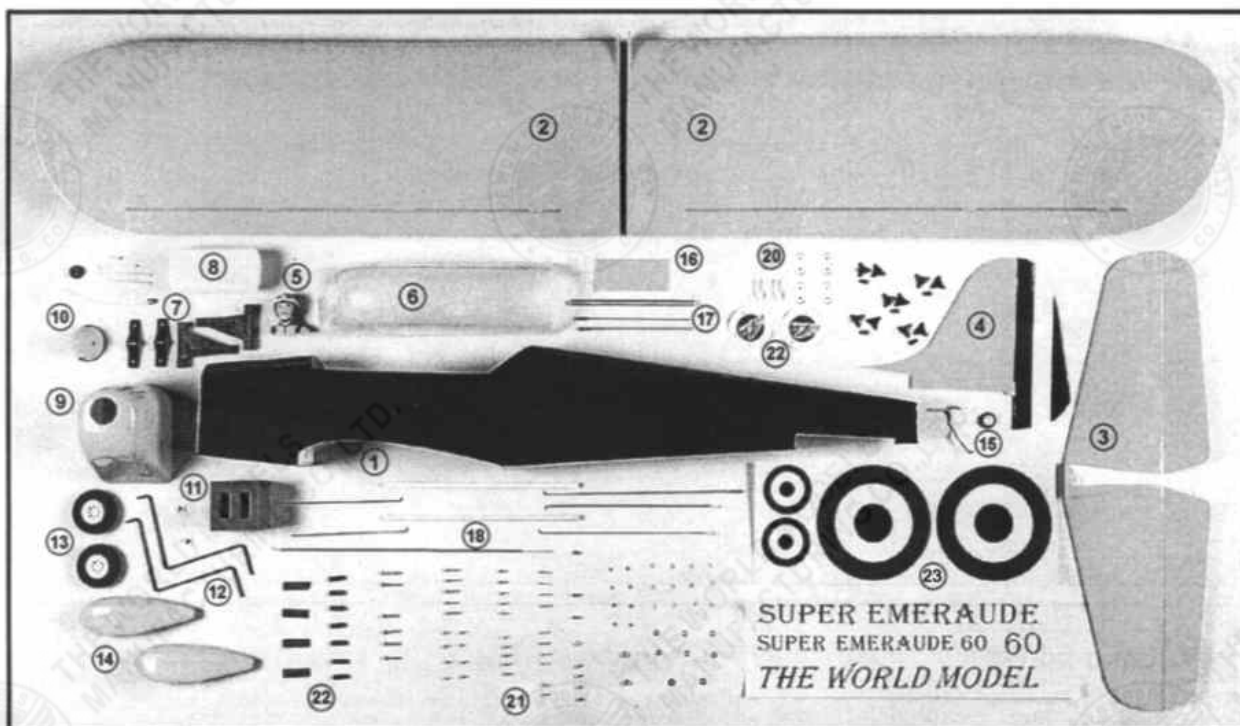


**Warning!**

Do not overlook this symbol!



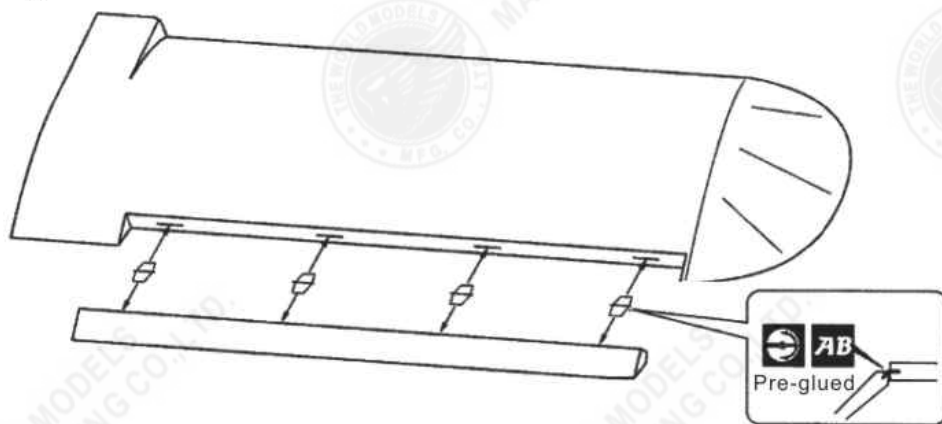
Pierce the shaded portion  
covering film.



## Parts List

1. FUSELAGE -- 1pc.
2. MAIN WING -- 1pair
3. STABILIZER & ELEVATOR -- 1set
4. VERTICAL FIN & RUDDER -- 1set
5. PILOT -- 1pc.
6. CANOPY -- 1set
7. ENGINE MOUNT -- 1set
8. FUEL TANK SET 380cc -- 1set
9. COWLING -- 1pc.
10. SPINNER Ø62mm -- 1pc.
11. SPONGE (For Radio Equipment) -- 1pc.
12. MAIN LANDING GEAR -- 2pcs
13. MAIN WHEEL Ø70mm -- 1pair
14. WHEEL COVER(w/Parts) -- 1pair
15. TAIL LANDING GEAR & TAIL WHEEL 26mm -- 1set
16. PLYWOOD 3 x 50 x 50mm(For Wing Protection) -- 2pcs
17. WING JOINER Ø16 x 310mm -- 1pc.
18. AILERON PUSHROD Ø1.8 x 125mm(w/Threads) -- 2pcs
18. PUSHROD:--
  - THROTTLE PUSHWIRE Ø1.2 x 460mm(w/Plastic Tube) -- 1set
  - BALSA ROD Ø8 x 370mm -- 2pcs
  - METAL ROD Ø1.8 x 140mm -- 2pcs
  - METAL ROD Ø1.8 x 230mm -- 2pcs
  - METAL ROD Ø1.8 x 260mm -- 2pcs
19. WOODEN PARTS:--
  - BALSA 15 x 15 x 950mm(For Fixing Fuel Tank) -- 1pc.
  - PLYWOOD 3 x 50 x 50 (Wing Protection) -- 2pcs
20. PLASTIC PART:--
  - CLIPPER -- 5pcs
  - STRAPER -- 3pcs
  - TRI-HORN 3 x 9mm(For Elevator) -- 2sets
  - TRI-HORN 3 x 14mm(For Aileron) -- 2sets
  - TRI-HORN 3 x 22mm(For Rudder) -- 1set
  - PLATE(For Main Landing Gear) -- 4pcs
  - O-RING d3 x D8mm -- 2pcs
21. METAL PARTS:--
  - LINKAGE STOPPER -- 2sets
  - COLLAR 2.1mm -- 1pc.
  - COLLAR 4.6mm -- 2pcs
  - NUT 4mm
  - SCREW 2 x 12mm -- 3pcs
  - SCREW 2 x 16mm -- 8pcs
  - SCREW 2 x 20mm -- 4pcs
  - SCREW 2.3 x 8mm -- 4pcs
  - SCREW 2.6 x 12mm -- 3pcs
  - SCREW 3 x 12mm -- 3pcs
  - SCREW 3 x 14mm -- 3pcs
  - SCREW 3 x 30mm -- 3pcs
  - SCREW 4 x 25mm -- 3pcs
  - SCREW 4 x 30mm -- 3pcs
  - WASHER d3 x D12mm -- 1pc.
  - WASHER d3.2 x D8 X 3mm -- 2pcs
  - WASHER d4 x D15mm -- 2pcs
  - WASHER 4mm -- 12pcs
22. FUEL TUBE Ø6 x 5mm -- 8pcs
- HEAT-SHRINK TUBE Ø8 x 40mm -- 4pcs
23. FUSELAGE STICKER & LOGO -- 1set

## 1 Aileron



L/R

## 2 Landing Gear

3 x 14mm Screw



Plywood  
3 x 50 x 50mm

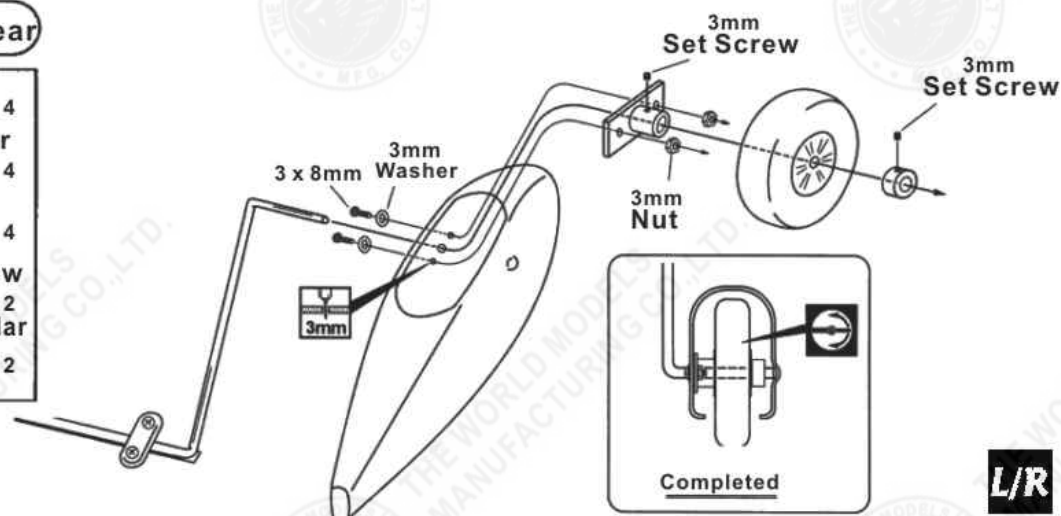
AB



L/R

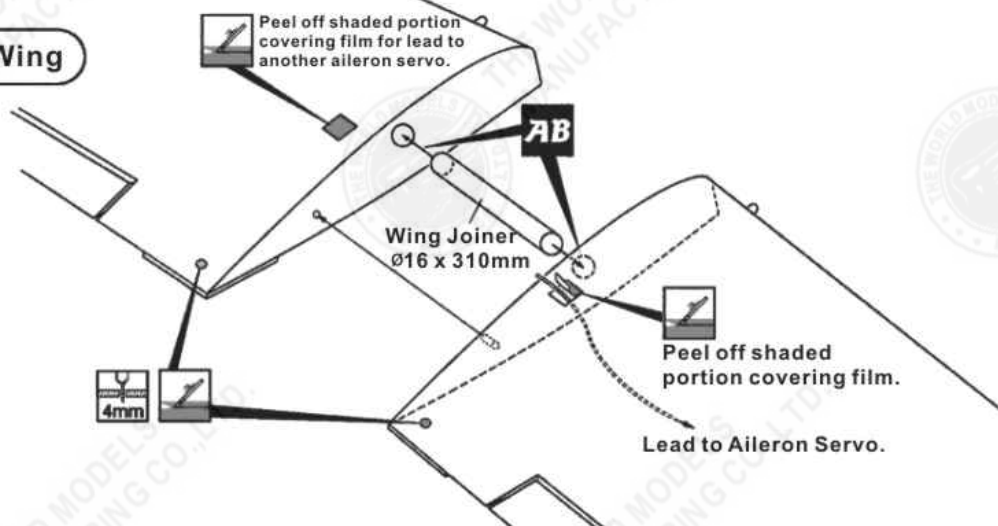
## 3 Landing Gear

- |         |              |   |
|---------|--------------|---|
| 3 x 8mm | Screw        | 4 |
| 3mm     | Washer       | 4 |
| 3mm     | Nut          | 4 |
| 3mm     | Set Screw    | 2 |
| 4.6mm   | Wheel Collar | 2 |



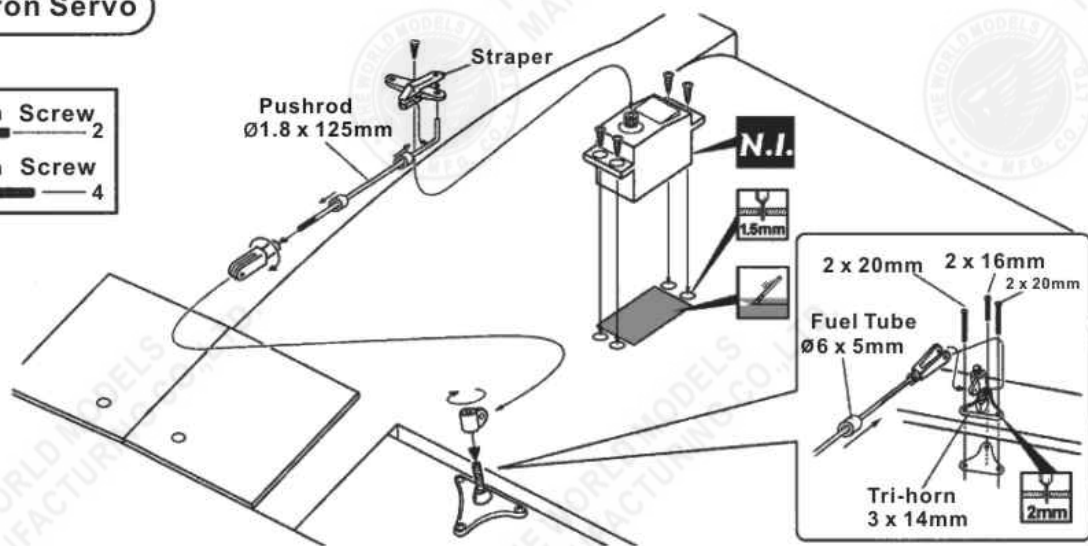
L/R

## 4 Main Wing



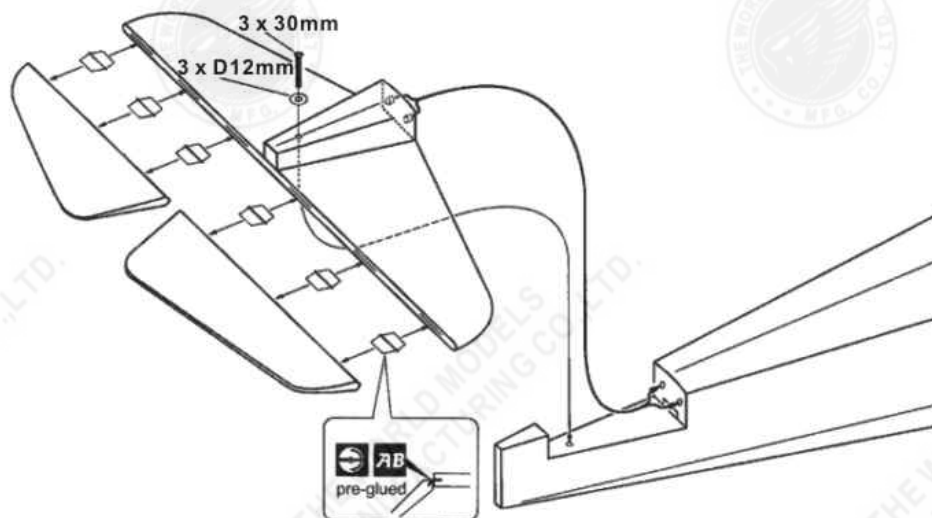
## 5 Aileron Servo

- 2 x 16mm Screw — 2
- 2 x 20mm Screw — 4



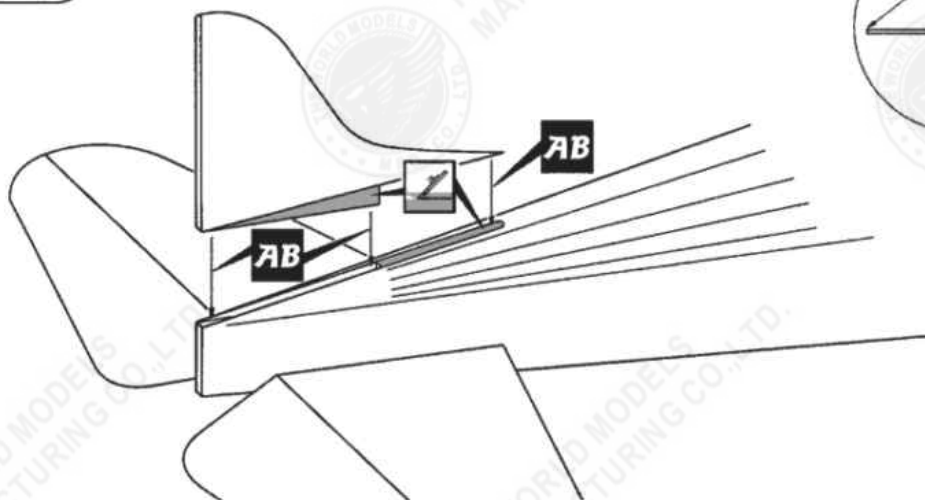
## 6 Stabilizer

- 3 x D12mm Washer — 1
- 3 x 30mm Screw — 1



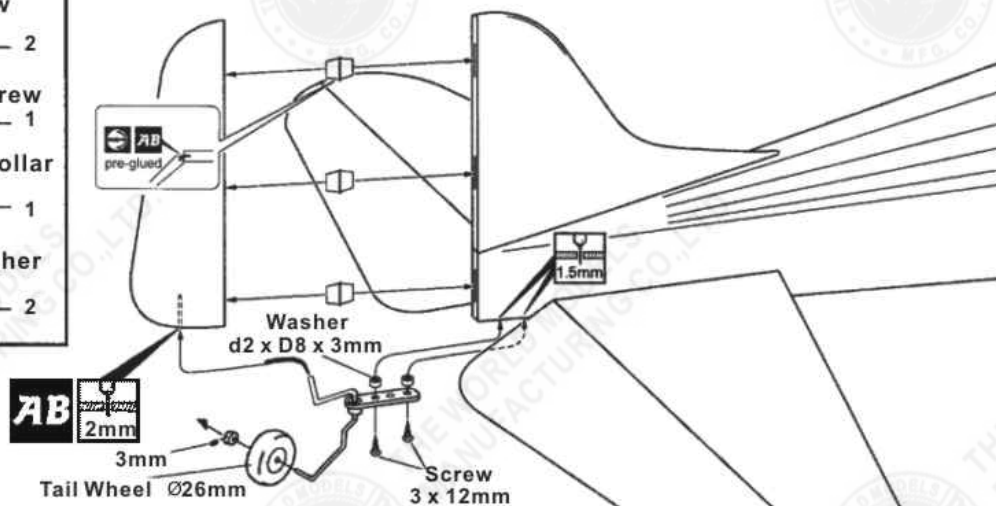
• Bottom View

## 7 Vertical Fin

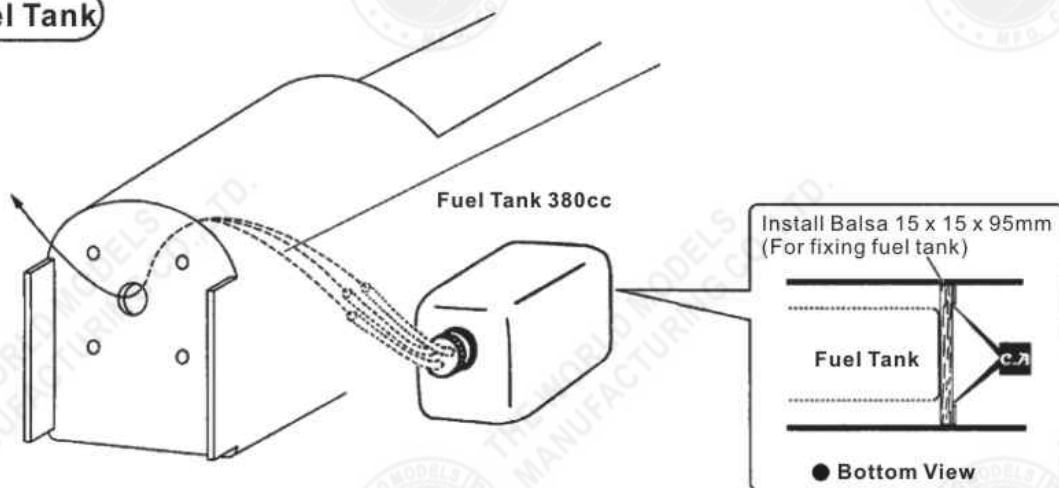


## 8 Rudder

3 x 12mm	Screw	2
3mm	Set Screw	1
2.1mm	Wheel Collar	1
d3.2 x D8 x 3mm	Washer	2



## 9 Fuel Tank





## 10 Engine Mount

4 x 25mm Screw

4

4mm Washer

4

Engine Mount  
PL5111-070

Screw  
4 x 25mm

4mm Washer

**!** Blind nuts are off-centered to keep the spinner at the fuselage axis.

We suggest inverted mounting for 4-cycle engine installation. For 2-cycle engine, please refer to the diagram.

## 11 Engine

4 x 30mm Screw

4

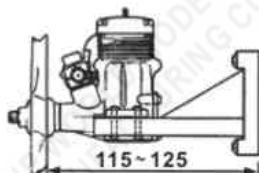
4mm Washer

8

4mm Nut

8

Install Engine position



If the engine throttle control is on the opposite side, install the throttle pushwire accordingly.

Install the throttle servo with the drive pinion on the same side of throttle pushwire.

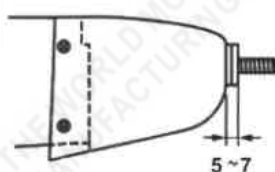
**!** Illustration is for upright mounting. You can mount the engine inverted or sideways simply by notating the engine mount. Thrust angles will not be affected.

## 12 Engine

2.6 x 12mm Screw

4

Install the cowling as shown on the drawing to allow for 5~7mm clearance between drive, washer surface and tip of cowling.

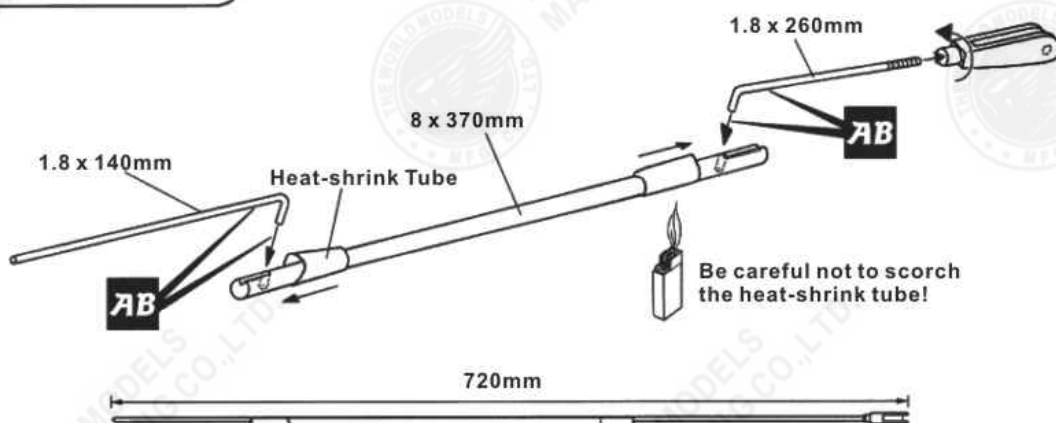


1mm

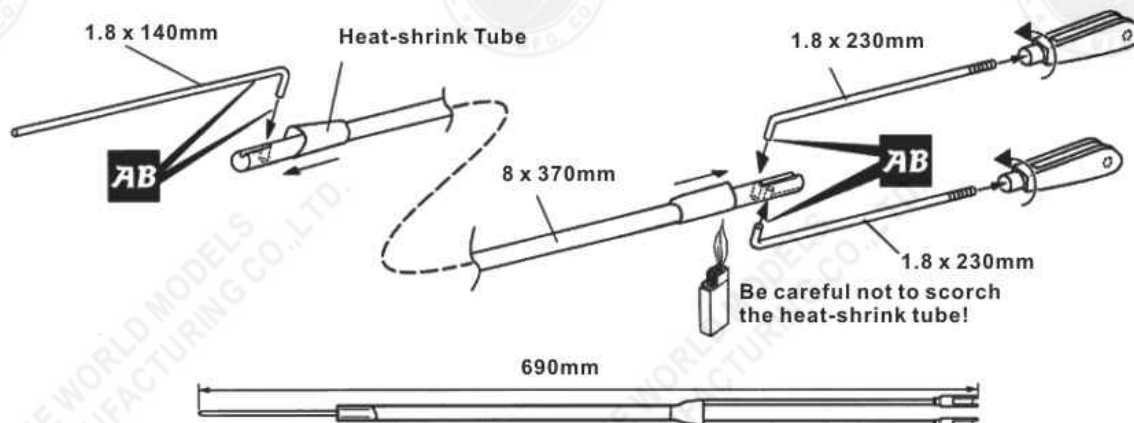
2.8mm

Trim the cowling so it will match your engine.

### 13 Rudder Pushrod

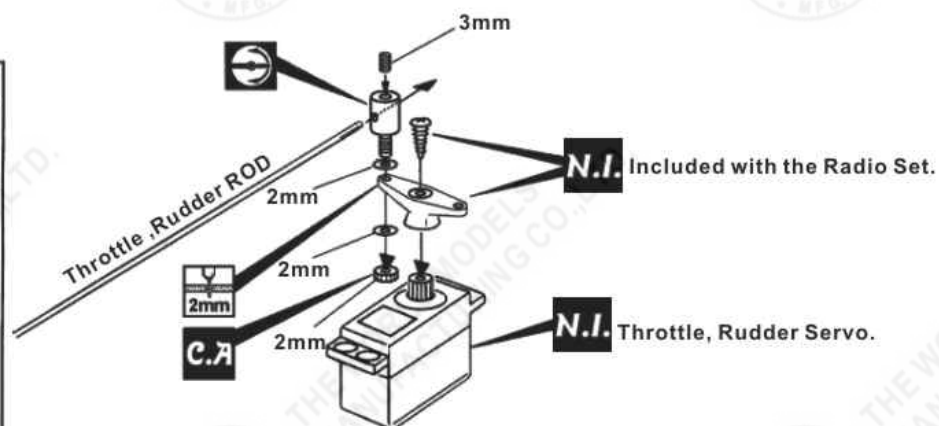


### 14 Elevator Pushrod



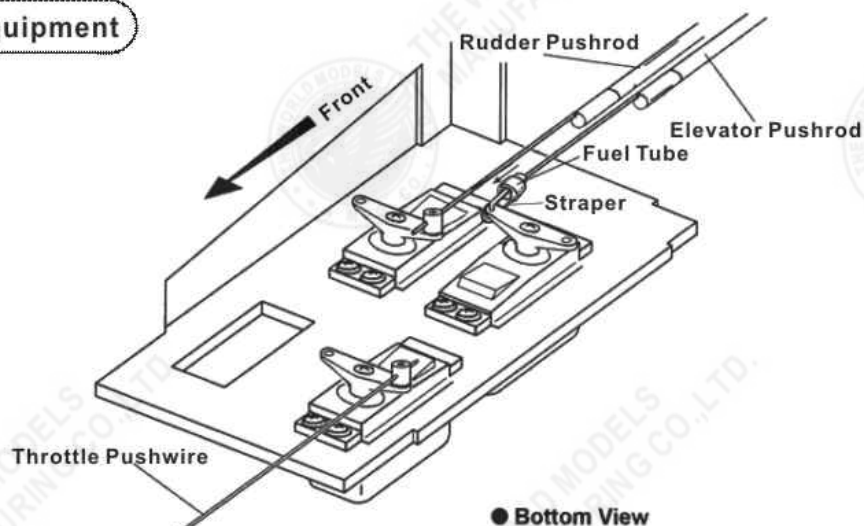
### 15 Servo Set

LINKAGE CONNECTOR	
3mm Set Screw	2
Linkage Connector	2
2mm Nut	2
2mm Washer	4





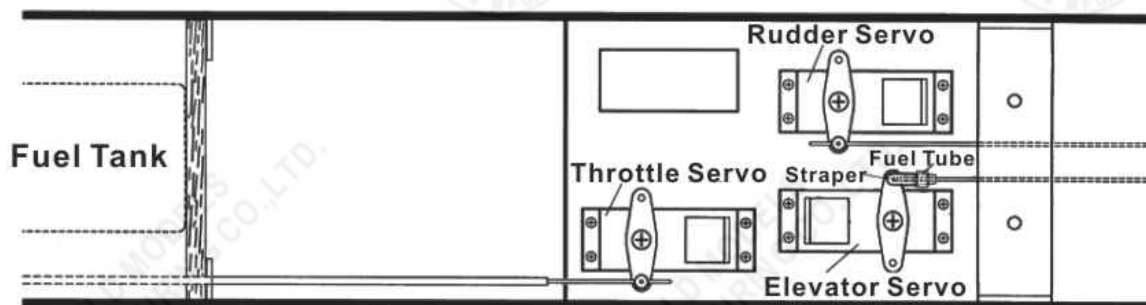
## 16 Radio Equipment



● Bottom View

## 17 Radio Equipment

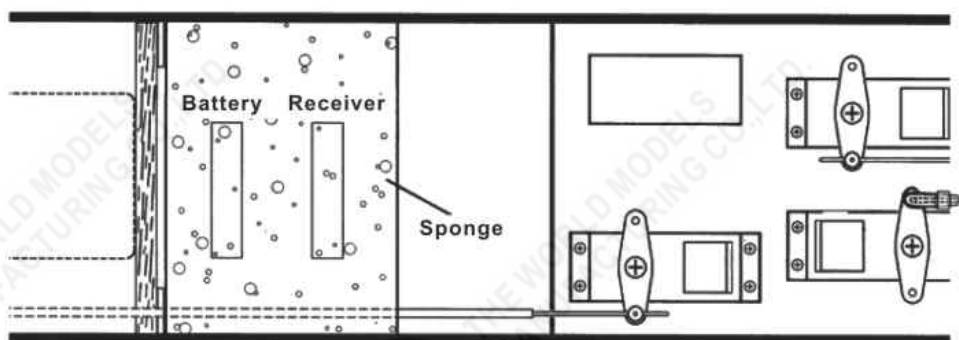
- Install and arrange the servo as shown in the diagram.



● Bottom View

## 18 Radio Equipment

- Install Sponge for inserting Battery and Receiver.

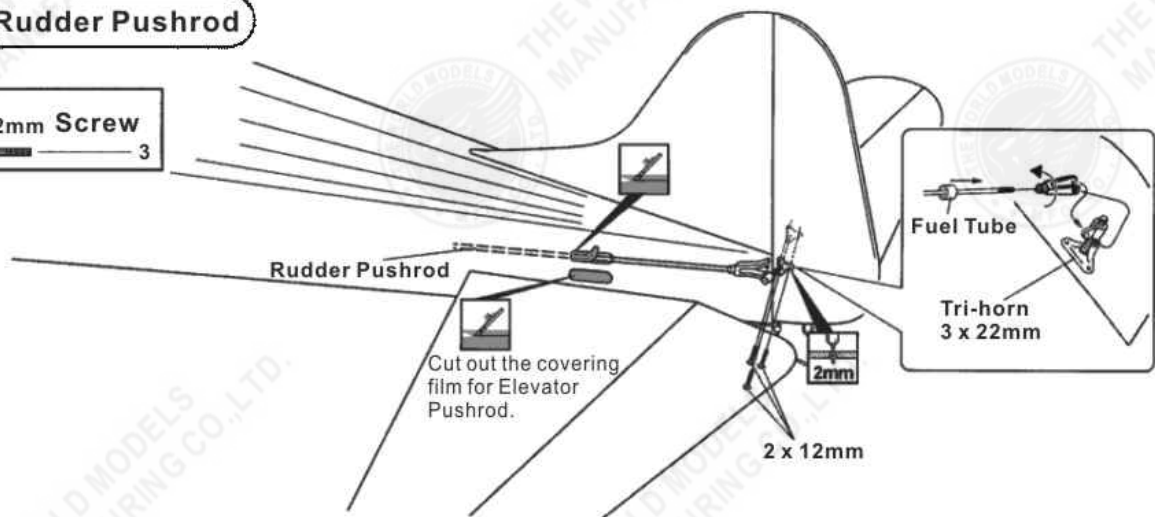


● Bottom View

## 19 Rudder Pushrod

2 x 12mm Screw

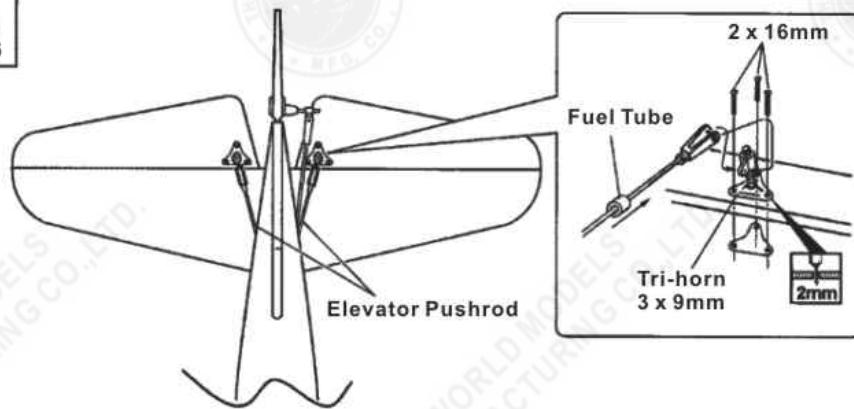
3



## 20 Elevator Pushrod

2 x 16mm Screw

6

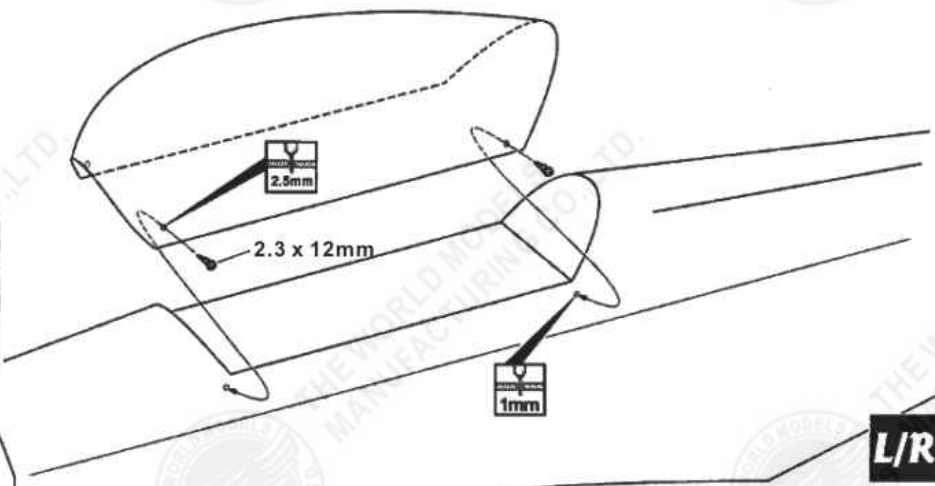
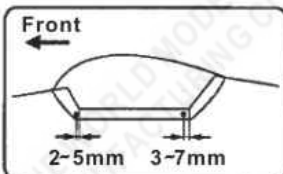


● Top View

## 21 Canopy

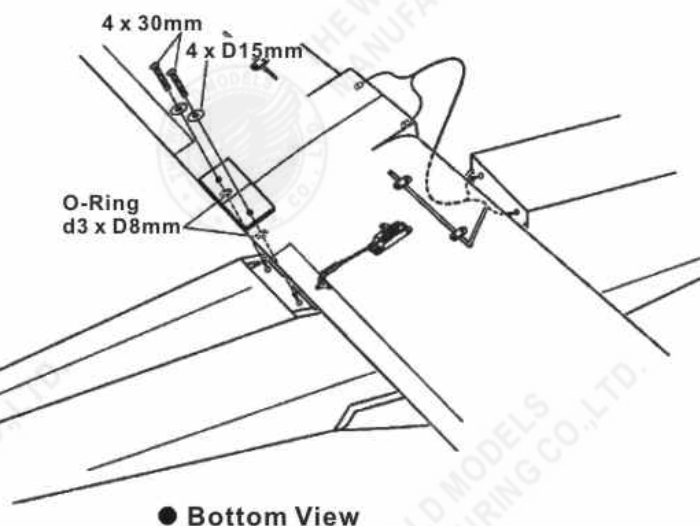
2.3 x 8mm Screw

4



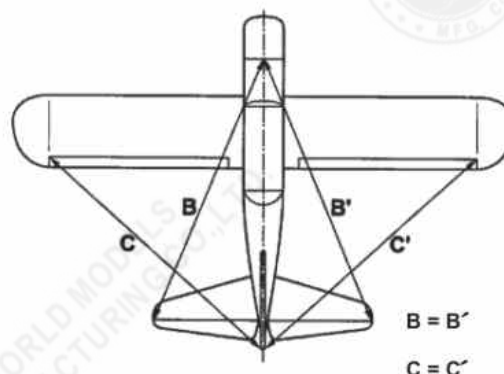
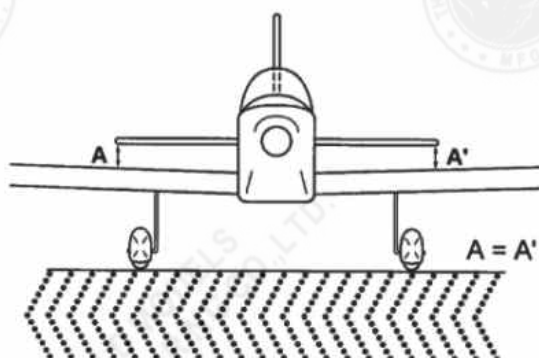
## 22 Main Wing

4 x 30mm Screw	2
4 x D15mm Washer	2
3 x D8mm O-Ring	2



## 23 Setting Wing

Adjust the wing and fuselage configuration as in the diagrams.



## 24 Control Ranges

Adjust the control throws as shown in the diagram. These throws are good for general flying. You can adjust according to your personal preference.

Elevator



Rudder

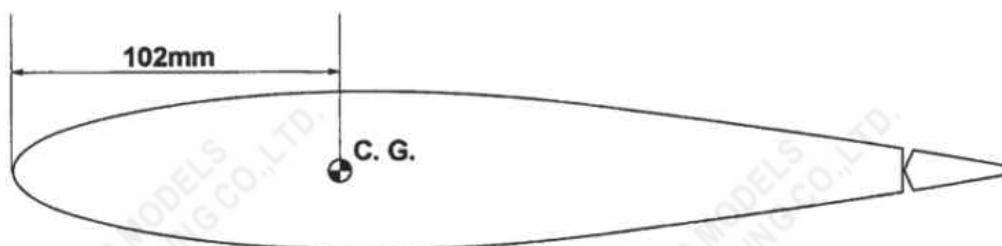


Aileron



## 25 C. G. Point

The ideal C.G. Position is 102mm behind the leading edge measured at where the wing meets the fuselage. In order to obtain the C.G. specified, add weight to the fuselage or move the battery position. Check the C.G. before flying.



## ! Warning!

### Important Safety Precautions

- ☐ First time flyer should never fly by himself / herself. Assistance from experienced flyer is absolutely necessary.
- ☐ Pre-flight adjustment must be done before flying, it is very dangerous to fly a badly pre-adjusted aircraft.
- ☐ **SUPER EMERAUDE 60** is specially designed to be powered by 2C 60 or 4C 70 engine, using a more powerful engine does not mean better performance. In fact, over powered engine may cause severe damage and injuries.
- ☐ Make sure the air field is spacious, never fly the plane too close to people and never get too close to a running propeller.
- ☐ If you find wrinkles on the covering as a result of weather changes, you can use hot iron to remove the wrinkles. Please begin with lower temperature setting and gradually raise the temperature until the wrinkles are gone. Too hot an iron may damage the covering.
- ☐ Check and re-tighten up all factory assembled screws, use thread locker if applicable.

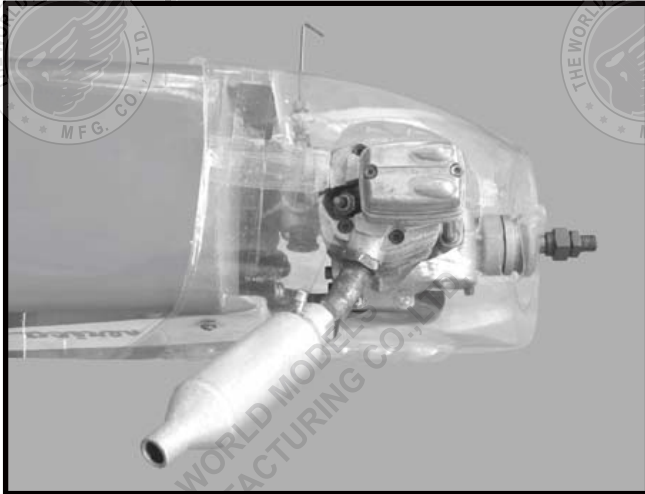
A0420403

# Usage of the transparent 3D template

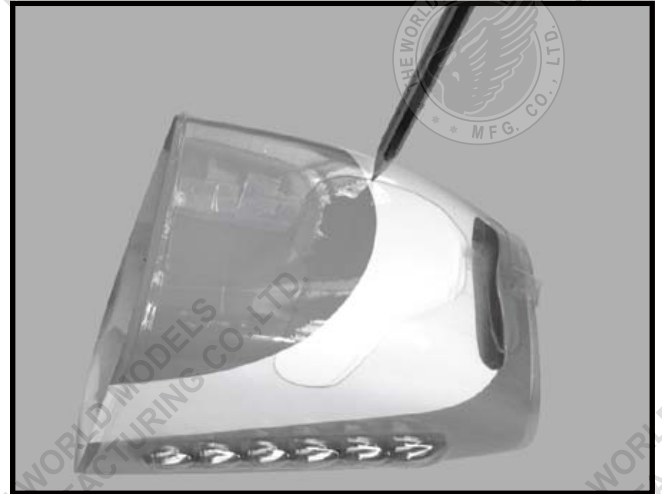


This transparent 3D template is used for position guidance of the actual cutting of the pre-painted cowling.

1



2



3



4



Simply cut the transparent 3D template to fit your engine and exhaust pipe, then slide onto the actual cowling and use as template to mark the openings required for final cutting.