

Before start ,please carefully read the explanations!

P-51D Mustang 89"



Specification:

Wing Span: 2260mm/89in

Length: 1965mm/77.4in

Flying Weight: ~11.2kg

Wing area: 90.2dm²

Engine: 50-60cc, rear exhaust

R/C System: 8+ channel radio system

Servo: 10

C.G: 170mm back from the leading edge at wing root

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.

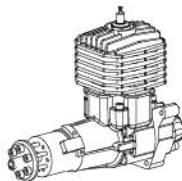


For handling the radio properly, refer to its instruction manual.

- 2 Engine and Muffler

Model Airplane Engine 35cc gas engine

Muffler



- 3 Propeller Spinner



5.75 in scale spinner

Purchase a propeller that will match your engine.

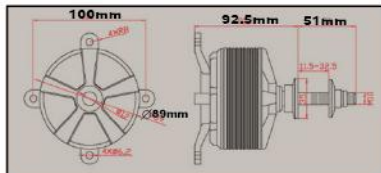
Engine 22"X10



Motor 24"X10



Motor: 12S 5000MAH 180KV
High Voltage ESC 130A



4

Sponge Sheet



Gasoline tube



Fuel Filter



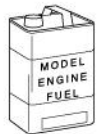
5

Required for engine starting:



WARNING: Normal gasoline cannot be used with glow engines.

Gasoline



Fuel Pump



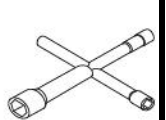
Booster Cord



4 D-size Batteries



Plug Wrench



6

Glue

Instant Glue



Epoxy Glue

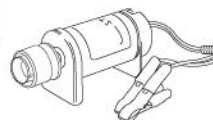
(Epoxy A)



7

Other equipment for enhancing airplane operation & performance

Engine Starter



12V Battery (for starter)



9

Optional electric retract set



TOOLS REQUIRED (Purchase separately!)

Sharp Hobby Knife



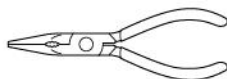
Phillips Screw Driver (l, m, s)



Awl



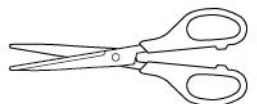
Needle Nose Pliers



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.

Do not overlook this Symbol!



Warning!



Apply epoxy glue.



Drill holes with the specified diameter (2mm).



Cut off excess.



Pay close attention here!



Assemble left and right sides the same way.



Apply instant glue (CA glue, super glue).



Cut off shade portion.



Ensure smooth non-binding movement while assembling.



Must be purchased separately!

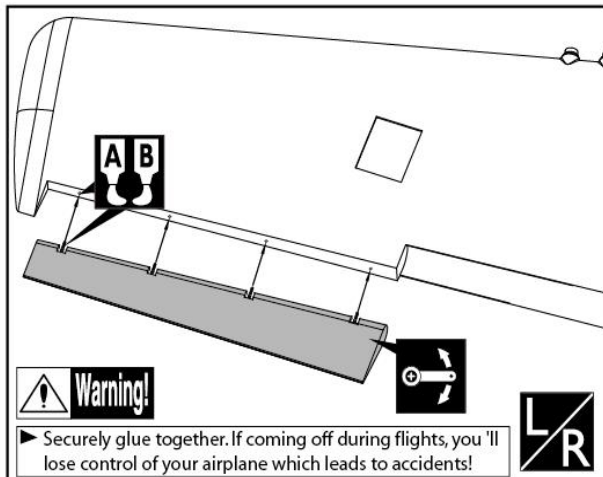


Accessory list for the coming installation steps.

| | | |
|--|-----------------------------|---|
| | Horn | 4 |
| | Pivot & round hinge(5x68mm) | 8 |
| | Clevis (2mm) | 4 |
| | Push rod (2mm) | 2 |
| | Screw (2x10mm) | 4 |
| | Locknut (2mm) | 4 |
| | Washer(2x5mm) | 4 |
| | Servo tray(68.5x56.5x2mm) | 2 |
| | TP Screw (2.3x12mm) | 8 |
| | Screw (3x10mm) | 8 |
| | Screw (3x5mm) | 8 |
| | Washer(3x6mm) | 8 |
| | L bracket | 4 |

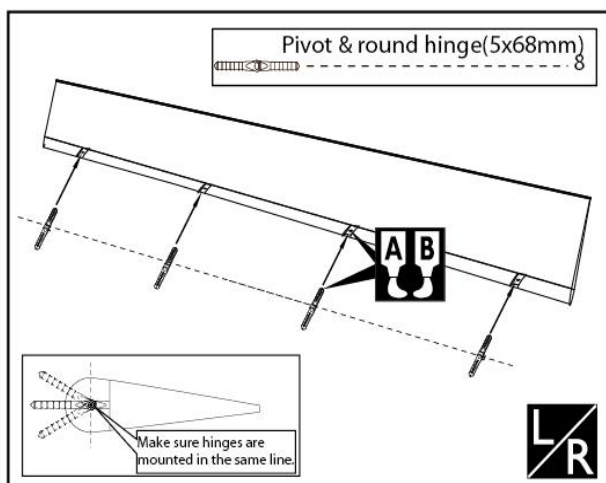
3

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.



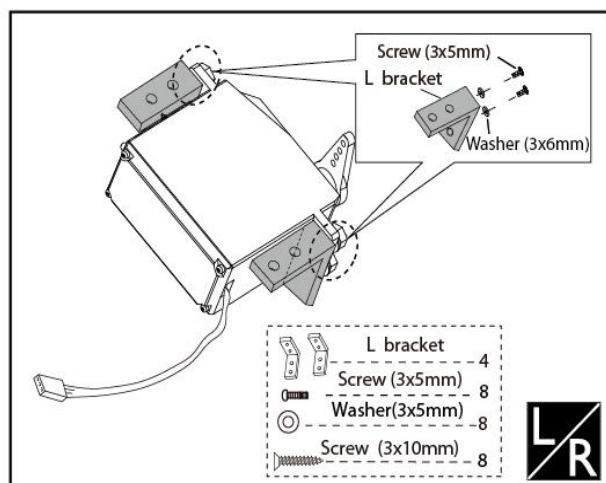
1

Apply instant type AB glue to the holes in the aileron and hinges.



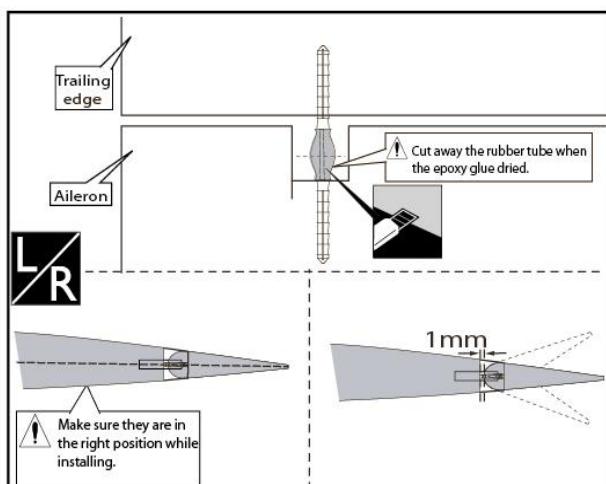
4

Install the L brackets to the servo of aileron as illustration below.



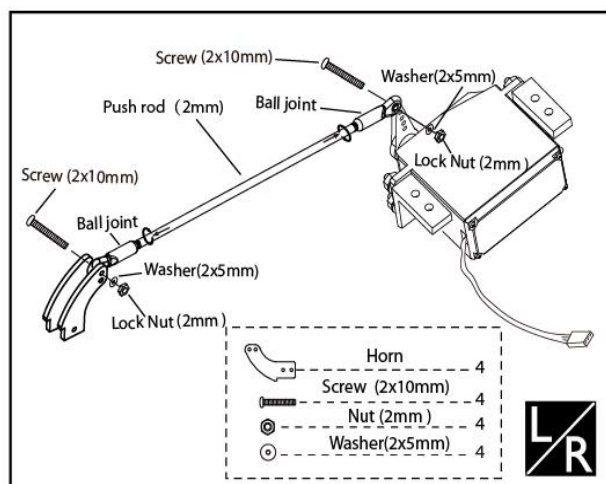
2

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



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.



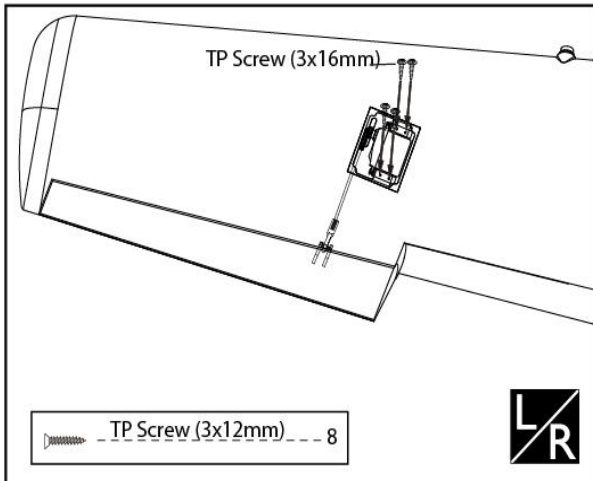
Cut off shaded portion.

Do not overlook this symbol!



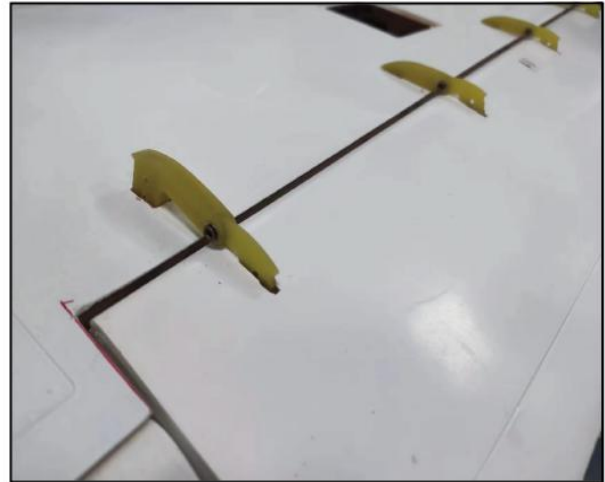
6

Assemble the servo of the aileron to the wing with screw



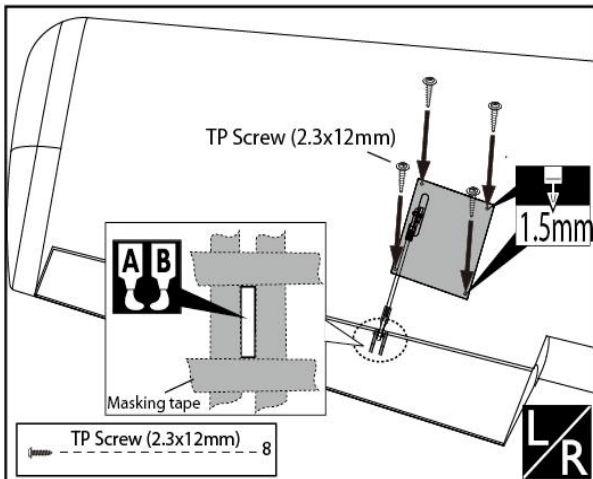
8

Fixed the hinges to the slots in the flap.



7

Assemble the servo tray to the wing with screws and epoxy the fiber horn to the aileron.



9

The part as the picture shown.

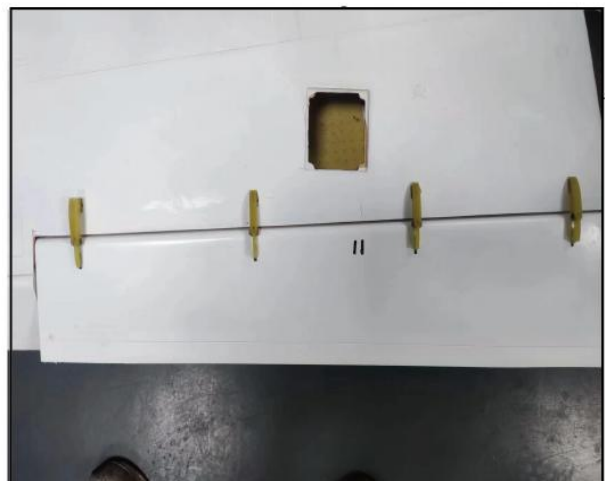


Accessory list for the coming installation steps.

| | | |
|--|-----------------------------|---|
| | Horn | 4 |
| | Pivot & round hinge(5x68mm) | 8 |
| | Clevis (2mm) | 4 |
| | Push rod (2mm) | 2 |
| | Screw (2x10mm) | 4 |
| | Locknut (2mm) | 4 |
| | Washer(2x5mm) | 4 |
| | Servo tray(68.5x56.5x2mm) | 2 |
| | TP Screw (2.3x12mm) | 8 |
| | Screw (3x10mm) | 8 |
| | Screw (3x5mm) | 8 |
| | Washer(3x6mm) | 8 |
| | L bracket | 4 |

10

Four parts install on flap and connect with wing.



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.



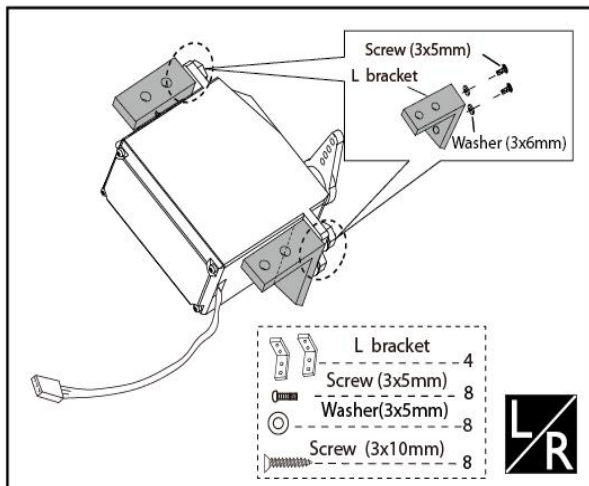
Cut off shaded portion.

Do not overlook this symbol!



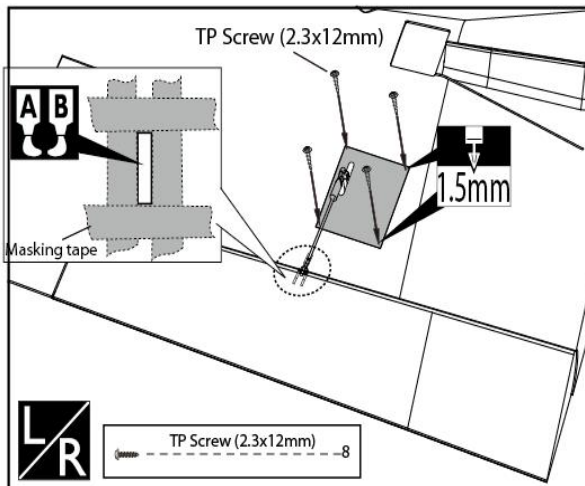
11

Install the L brackets to the servo of flap as illustration below.



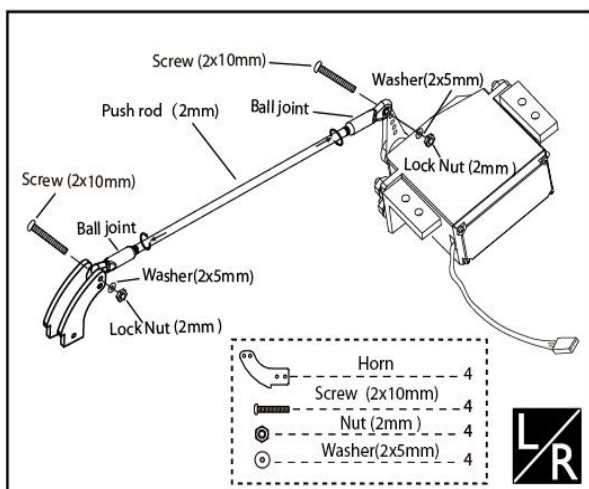
14

Assemble the servo tray to the wing with screws and epoxy the fiber horn to the flap.



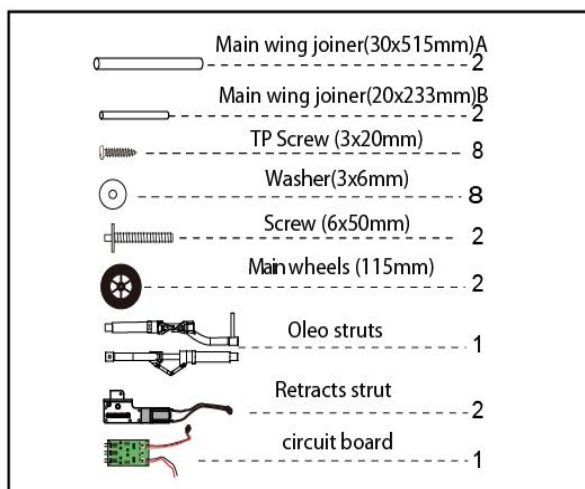
12

Install the nylon control horn and connect the linkage.



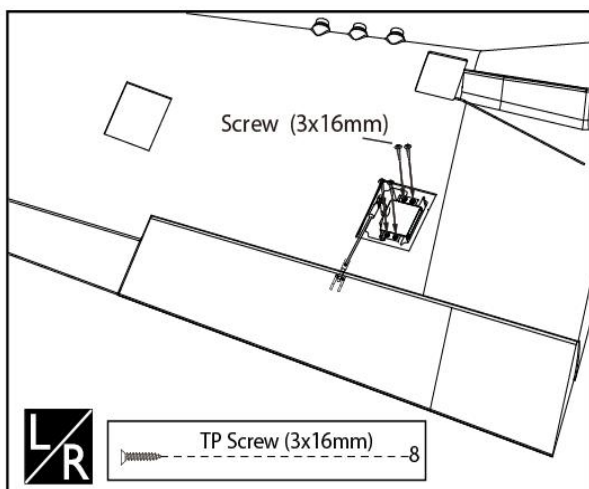
!

Accessory list for the coming installation steps.



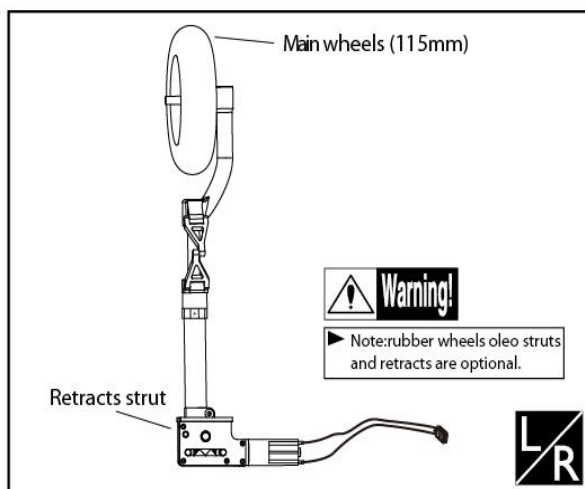
13

Assemble the servo of the flap to wing with screws



15

Install the landing gear.



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.



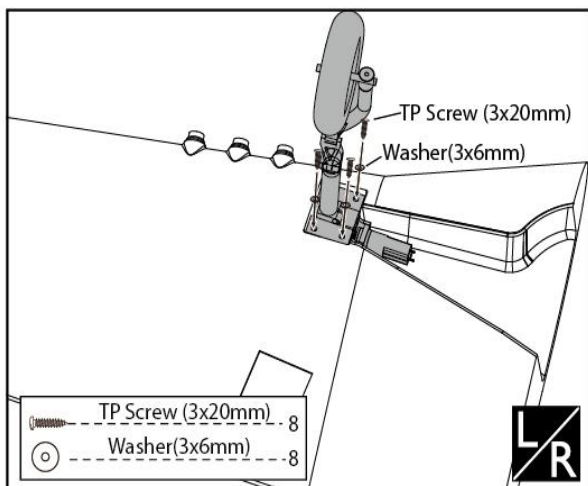
Cut off shaded portion.

Do not overlook this symbol!

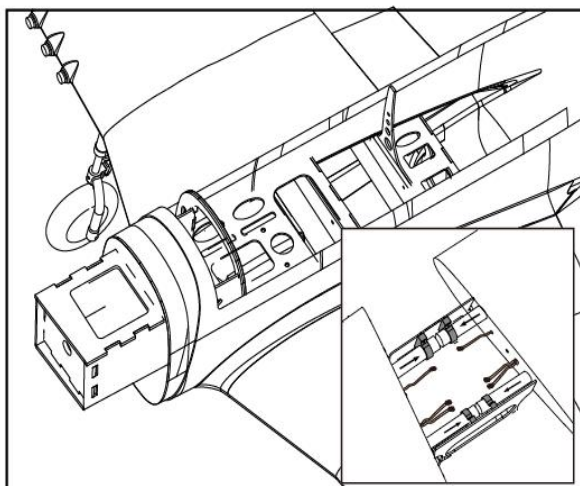


Warning!

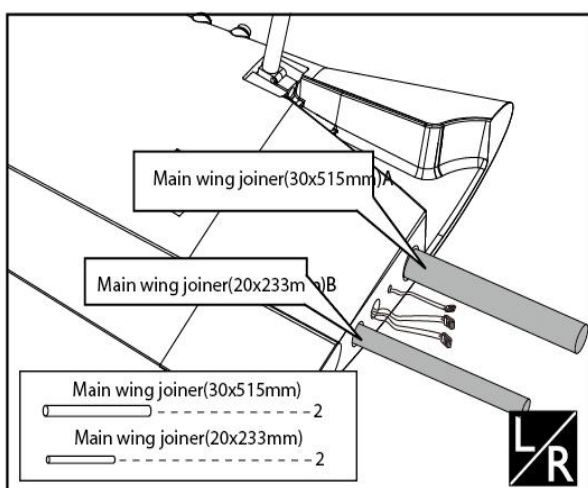
16 Assemble the landing gear to the appropriate position in the fuselage and the landing gear mount.



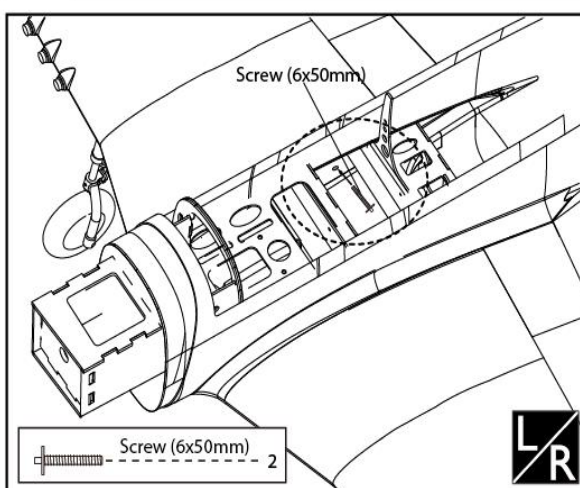
19 The sketch map of the wing fits well to the fuselage.



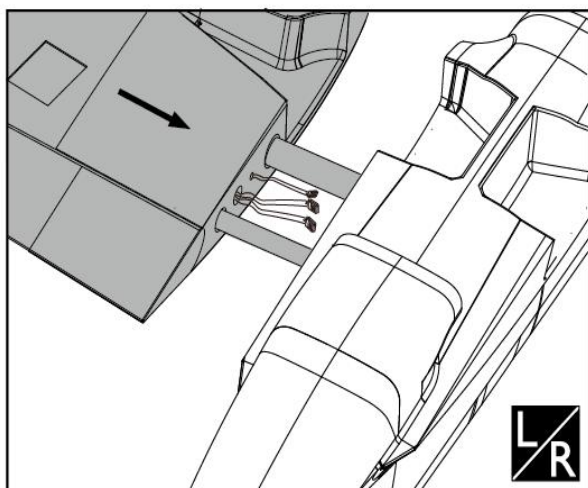
17 Drag the servo line and retracts lines from the wing.



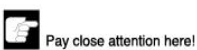
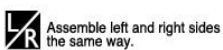
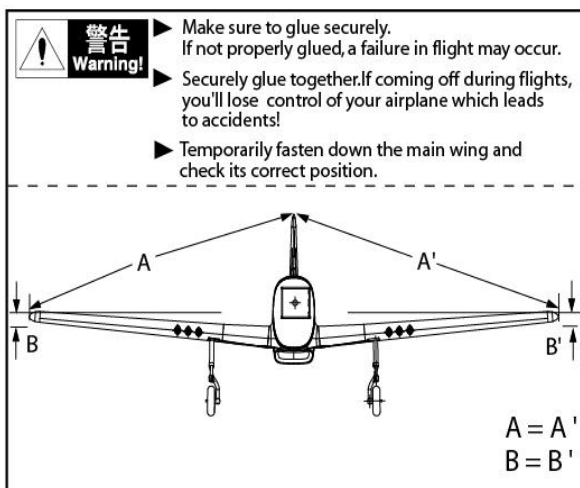
20 Factory already set blind nuts in the wings, the customers can fix the wing to the fuselage by tightening the nylon screws.



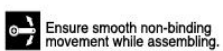
18 Connect the two wings to the fuselage through the wing joiner.



21 The sketch map should be when the stabilizer assembly completion.



Do not overlook this symbol!



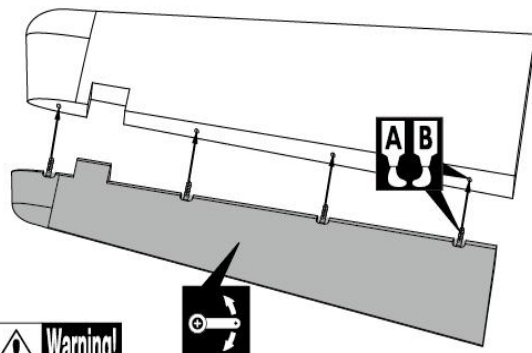


Accessory list for the coming installation steps.

| | | | |
|------------------------------|----|-------------------------|----|
| Horn | 8 | TP Screw (2.3x12mm) | 16 |
| pivot & round hinge(5x68mm) | 12 | Rod (2x200mm) | 1 |
| carbon fiber tube(14x423mm)A | 1 | Copper joiner | 4 |
| carbon fiber tube(14x213mm)B | 1 | Steel wire (0.5x3000mm) | 4 |
| Washer(3x8mm) | 1 | Aluminum tube | 4 |
| Screw (2.6x12mm) | 4 | Horn | 2 |
| Screw (2x10mm) | 4 | Pin hinge(36x20x1 mm) | 4 |
| Lock Nut (2mm) | 13 | Clevis | 9 |
| Washer(2x5mm) | 13 | Push rod(2mm) | 2 |
| Fibre glass tube(3x300mm) | 2 | TP Screw (2x10mm) | 16 |

24

Epoxy the elevator to the stabilizer.

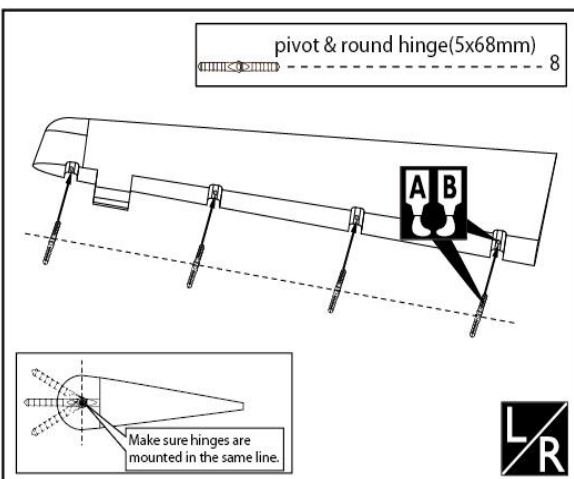


Securely glue together. If coming off during flights, you'll lose control of your airplane which leads to accidents!



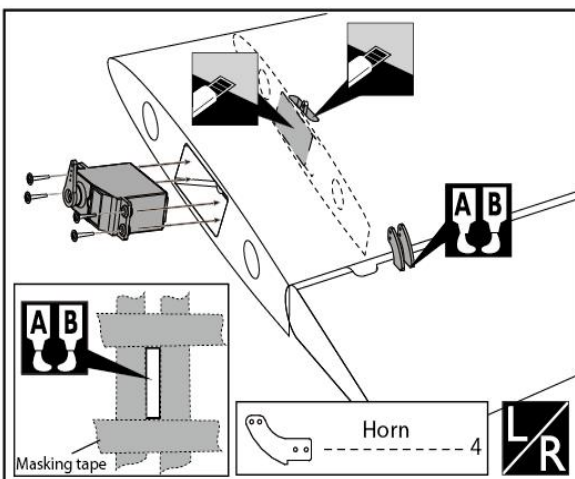
22

Apply instant type AB glue to elevator and hinges.



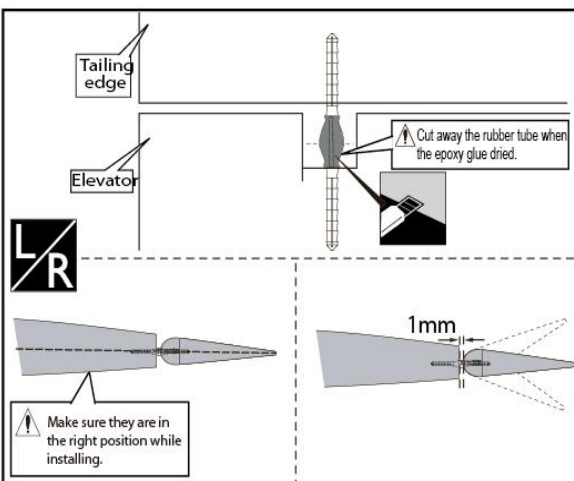
25

Trim a slot in the stabilizer base on the mark, put the servo of elevator into the stabilizer through the hole in the wing root, install the servo to appropriate position with screws and epoxy the horn to the slot in the elevator.



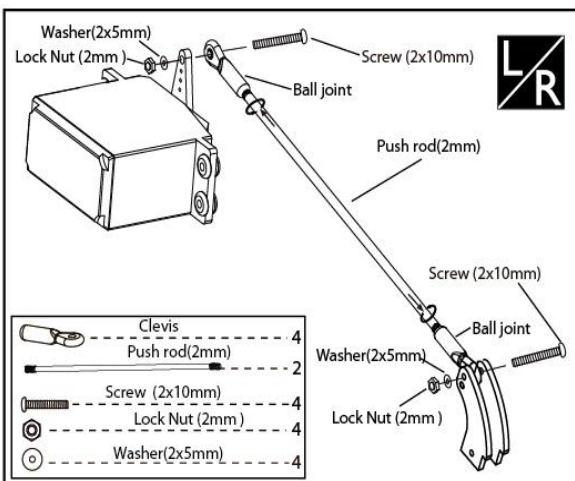
23

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



26

Install the 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.



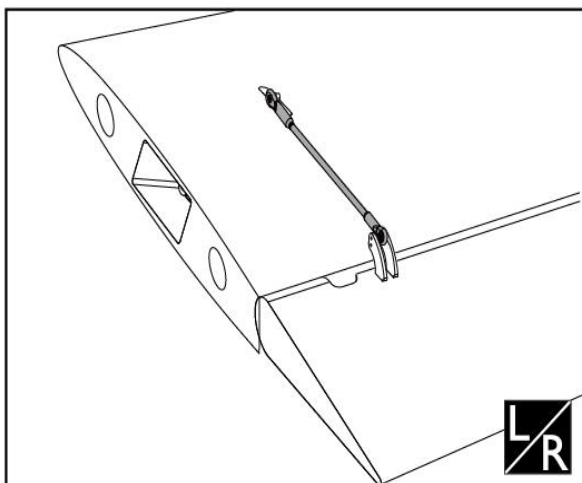
Cut off shaded portion.

Do not overlook this symbol!



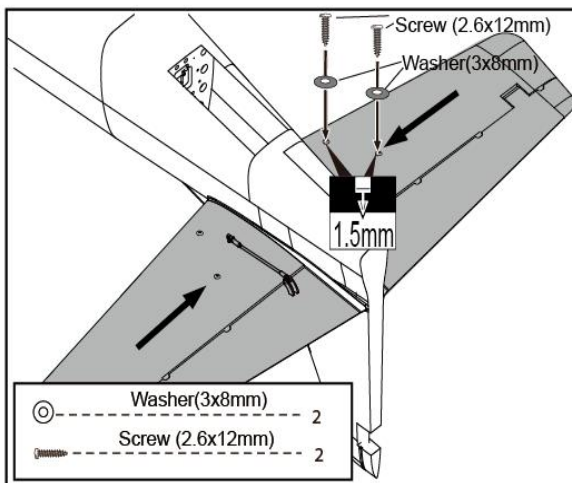
27

The sketch map after the servo and linkage connect.



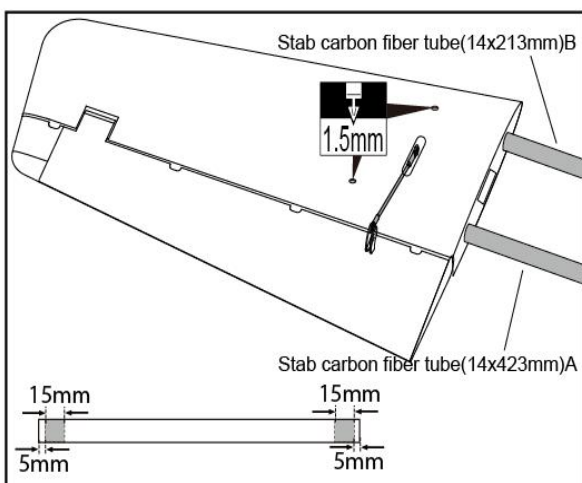
30

Assemble the stab to the fuselage drill a hole to the other section stab.



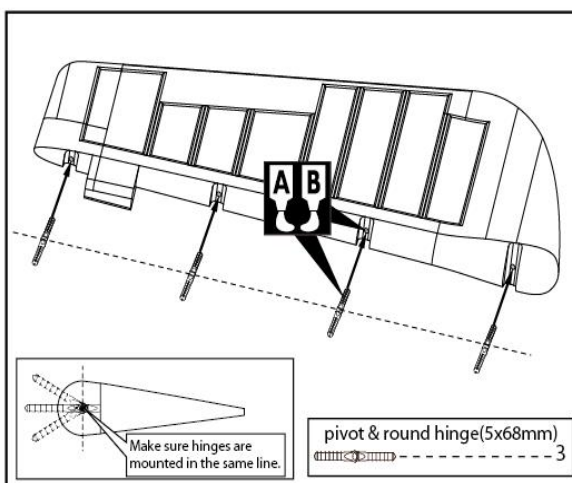
28

Glue the wooden block to each side of the stab tube as below, put the stab tube into one side the horizontal to the end and mark it out at the root of the horizontal, drill a hole in the stab tube and horizontal as illustration.



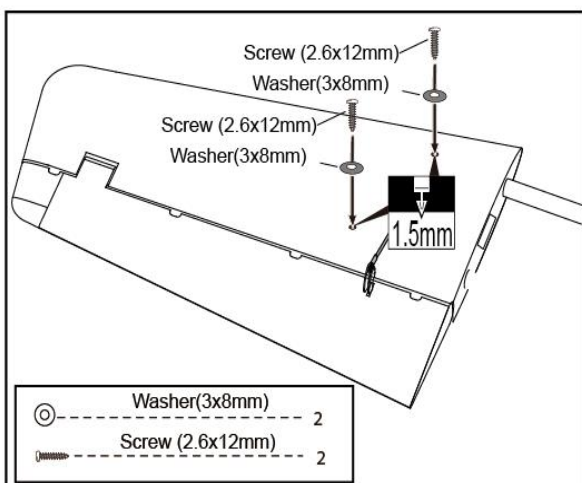
31

Epoxy the pivot & round hinges to the rudder.



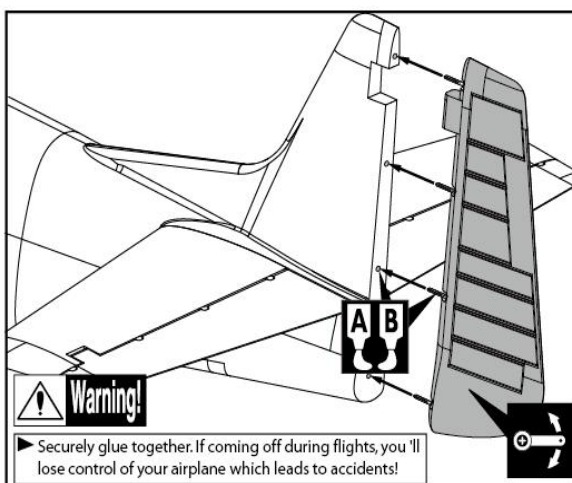
29

Fix the carbon fiber tube to one side of the stab with screws.



32

Epoxy the rudder to the vertical fin.



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!



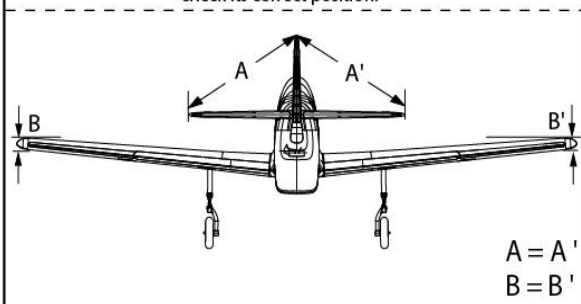
33

The sketch map should be when the stabilizer assembly completion.



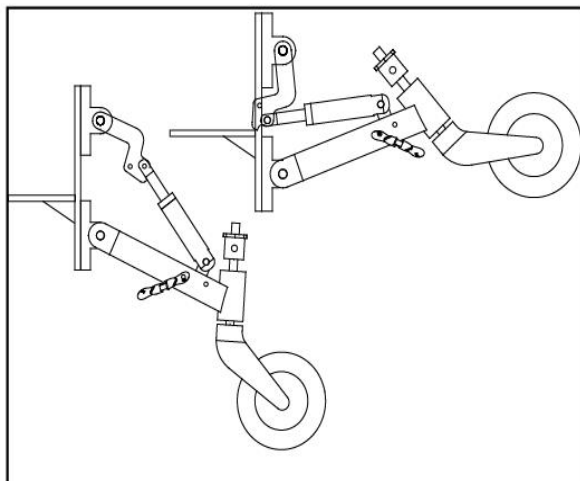
警告
Warning!

- ▶ Make sure to glue securely. If not properly glued, a failure in flight may occur.
- ▶ Securely glue together. If coming off during flights, you'll lose control of your airplane which leads to accidents!
- ▶ Temporarily fasten down the main wing and check its correct position.



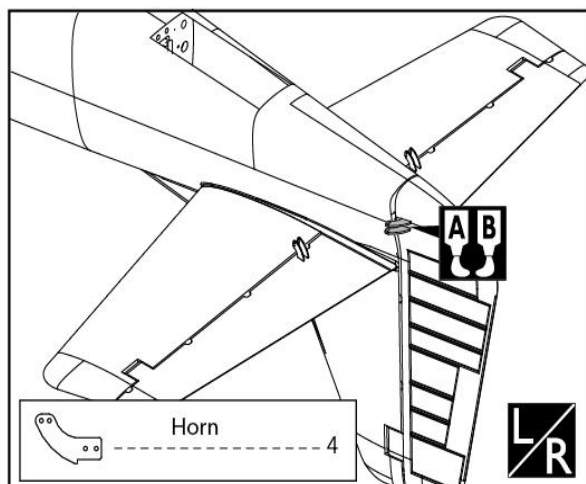
36

The pictures of the tail gear when it up and down.



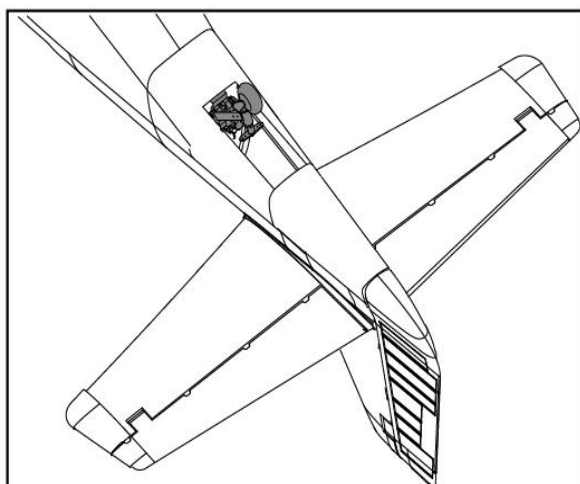
34

Epoxy the fiber horns to the slots in the rudder and elevator.



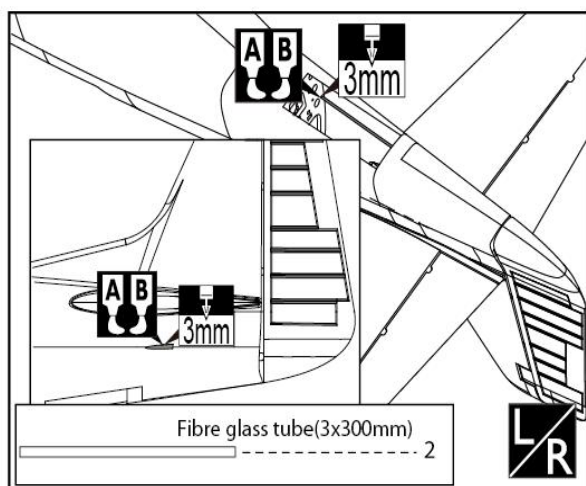
37

Assemble the tail gear to the gear frame in the tail fuselage.



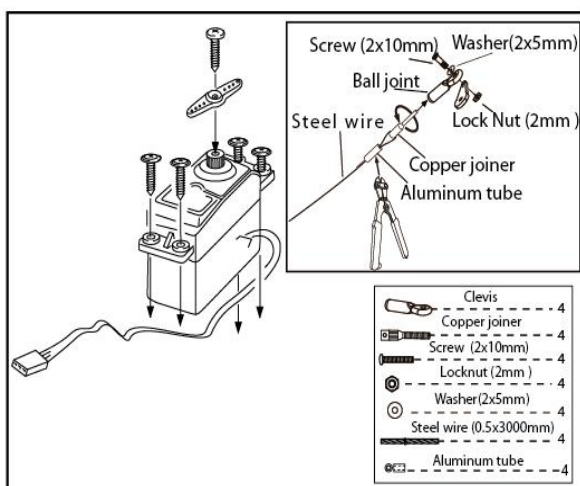
35

Drill a small hole to the tail fuselage and epoxy the fiber glass guide tube to it.



38

Install the servo.



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.

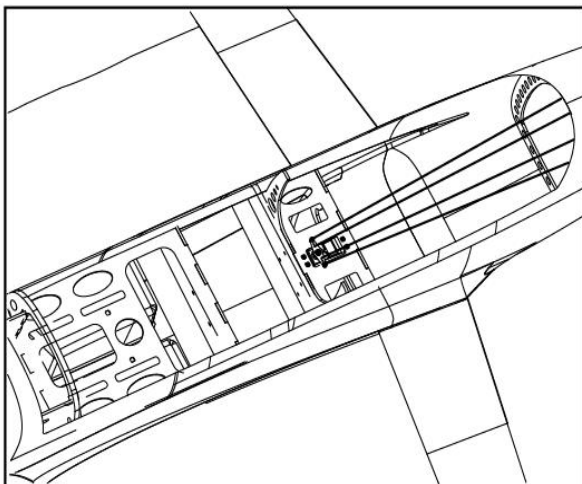


Cut off shaded portion.

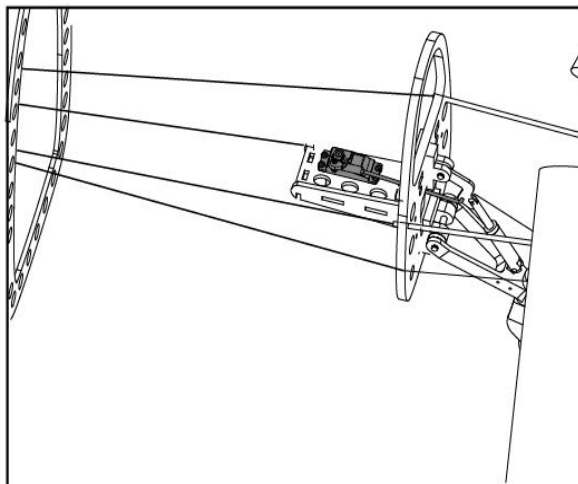
Do not overlook this symbol!



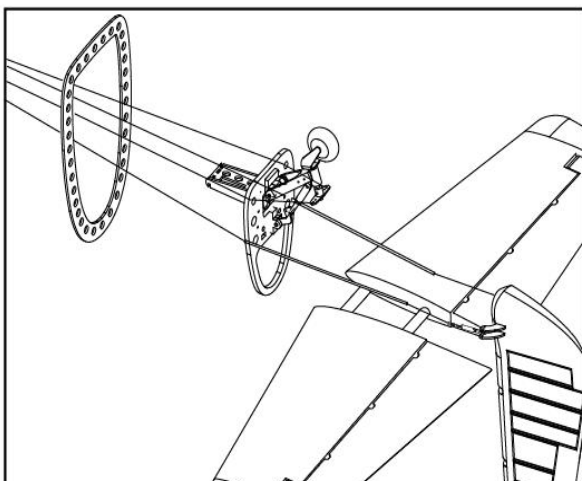
- 39** Connect the steel wires of the rudder horn and tail gear to the servo.



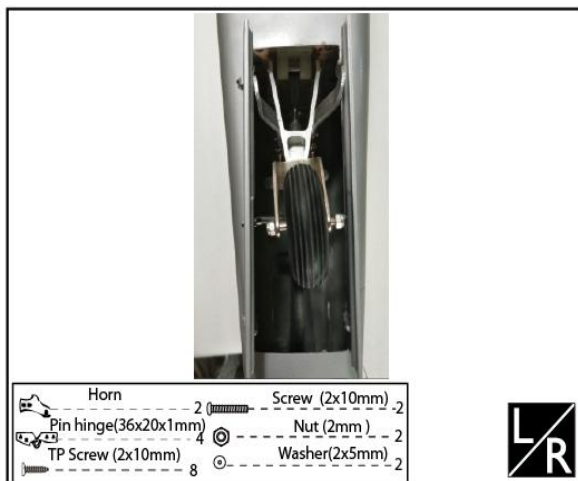
- 42** Assemble the servo of the tail landing gear to the fuselage.



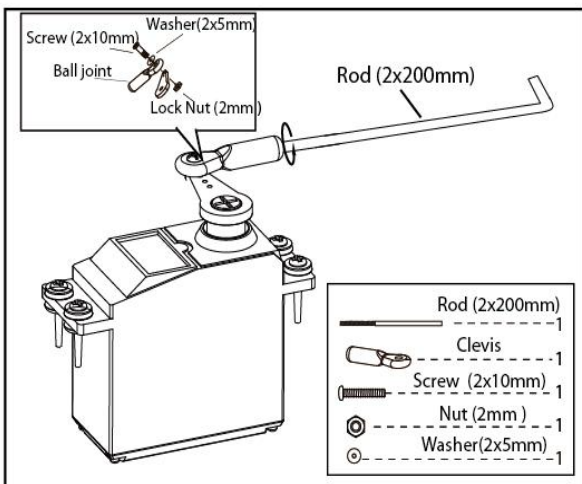
- 40** The sketch map of how the wires working in the fuselage.



- 43** Epoxy the pinned hinges and drill holes through the tail gear door. Fixing the pinned hinges and horns to the tail gear door as illustration.



- 41** Install the control horn and connect the linkage.



- 44** Put the gear door carefully to the tail hatch and connect the tail gear as illustration.



AB Apply epoxy glue.

LR Assemble left and right sides the same way.

Hand icon Pay close attention here!

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

Hand icon Ensure smooth non-binding movement while assembling.

Hand icon Cut off shaded portion.

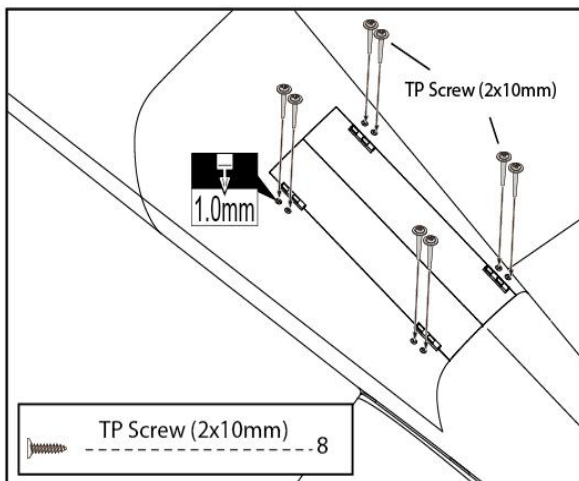
Do not overlook this symbol!



Warning!

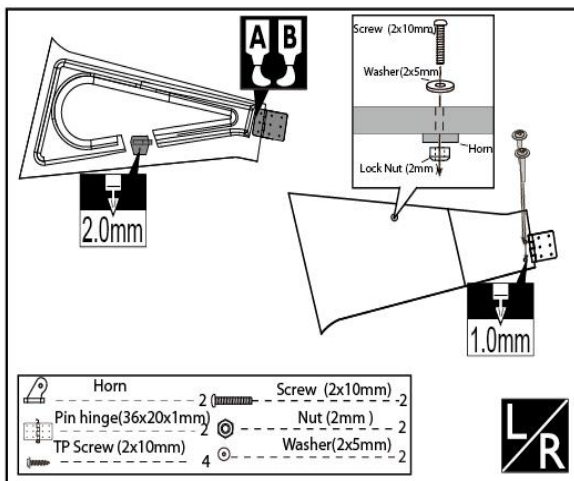
45

Assemble the servos of gear doors to the fuselage.



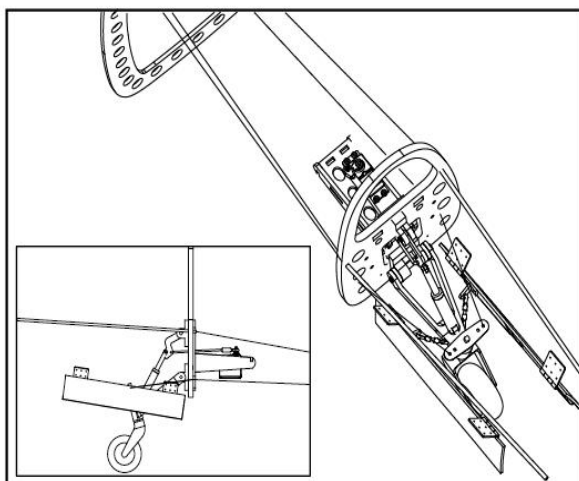
47

Epoxy the pinned hinges, horns to the appointed position on the outer gear doors and drill holes to appropriate position in the outer gear door as illustration.



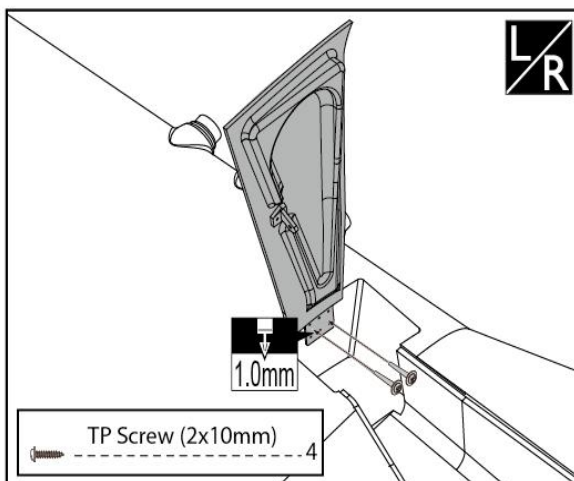
46

The schetch map of how the tail gear working in the fuselage.



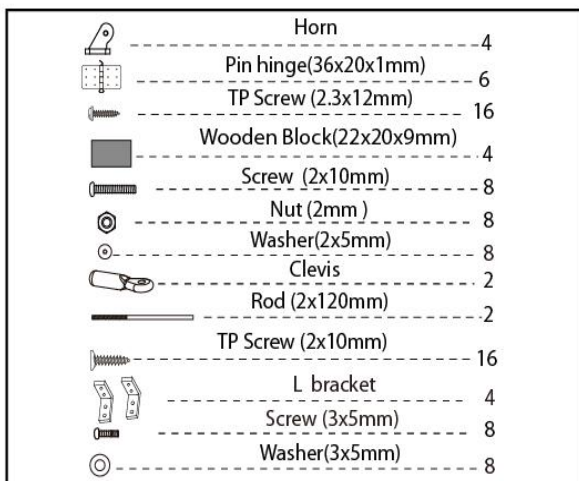
48

Assemble the outer gear door to the wing with screws.



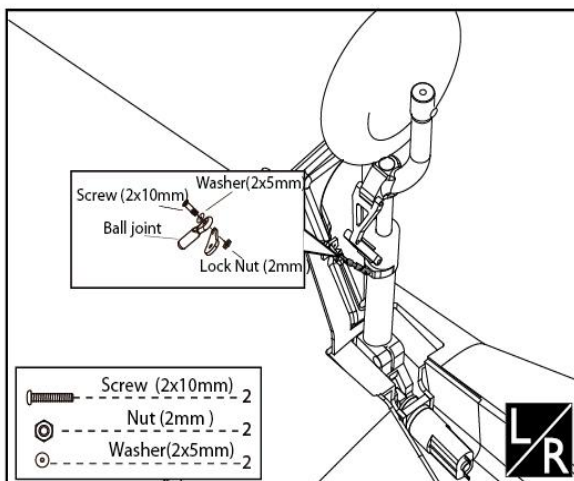
49

Accessory list for the coming installation steps.



49

Attach the outer gear door to the landing gear as image.



AB

Apply epoxy glue.

LR

Assemble left and right sides the same way.

Hand icon

Pay close attention here!

CA

Apply instant glue (CA glue, super glue).

Hand icon

Ensure smooth non-binding movement while assembling.

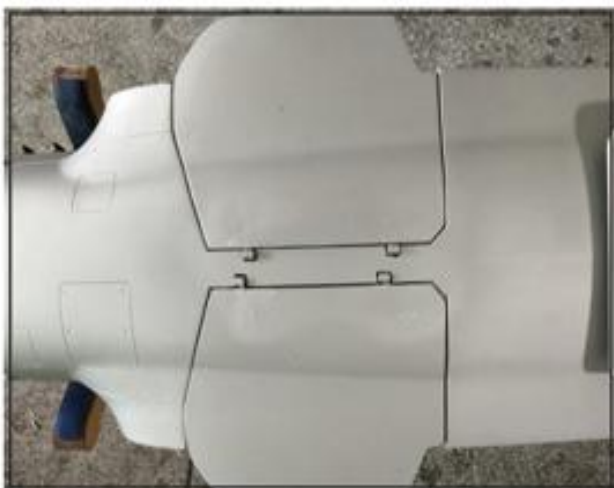
Hand icon

Cut off shaded portion.

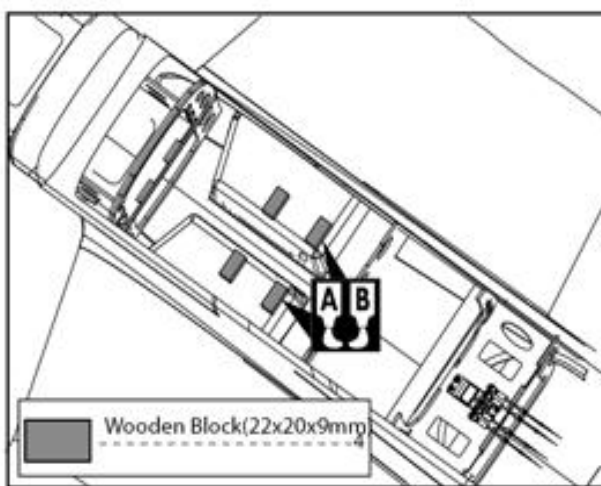
Do not overlook this symbol!

Warning!

- 50** Epoxy the pinned hinges, horns to the inner gear door carefully, drill holes through the gear door and pinned hinges and fix the pinned hinges tightly to the inner gear door.



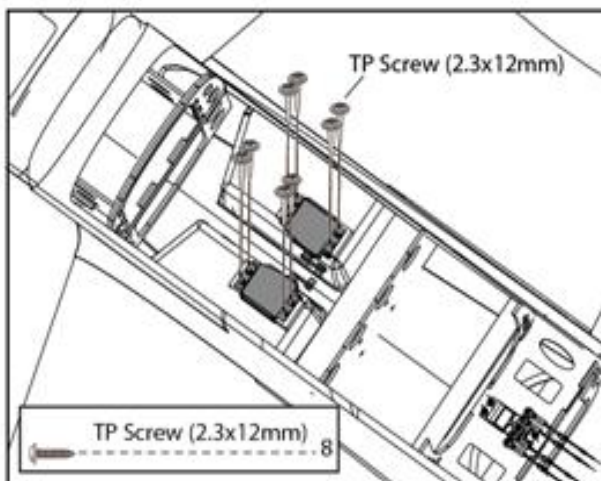
- 53** Epoxy the wooden blocks carefully to the fuselage for installing the gear door servos.



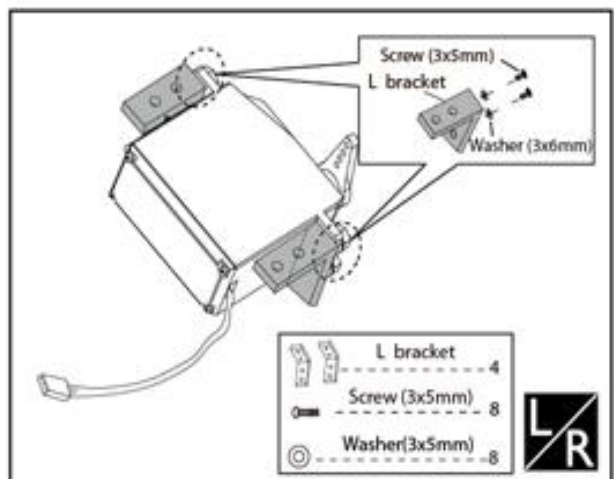
- 51** Assemble the inner gear door to the fuselage with screws and epoxy.



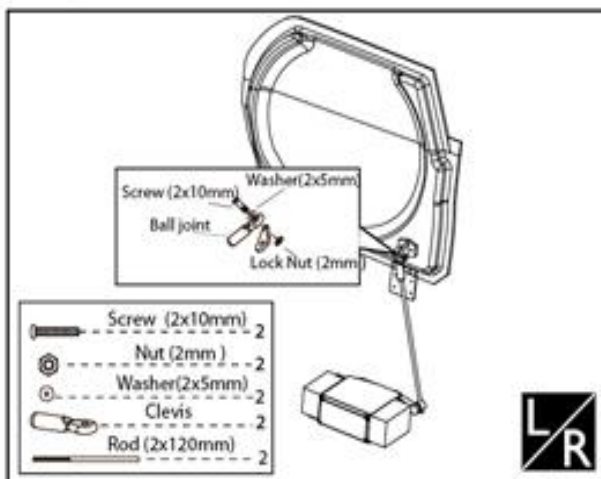
- 54** Assemble the servos of gear doors to the fuselage.



- 52** Install the L brackets to the servos of main gear doors.



- 55** Connect the inner gear doors and the servos.



AB Apply epoxy glue.

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

Hand icon Pay close attention here!

Do not overlook this symbol!

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

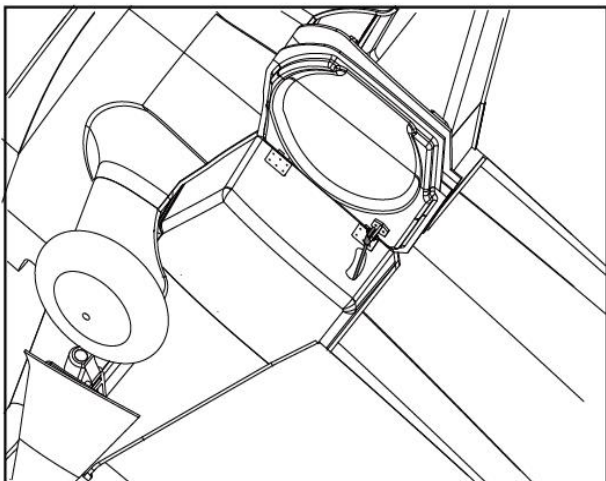
Hand icon Ensure smooth non-binding movement while assembling.

Shaded area icon Cut off shaded portion.

Warning!

56

Connect the inner gear doors and the servos through the slot in the fuselage.

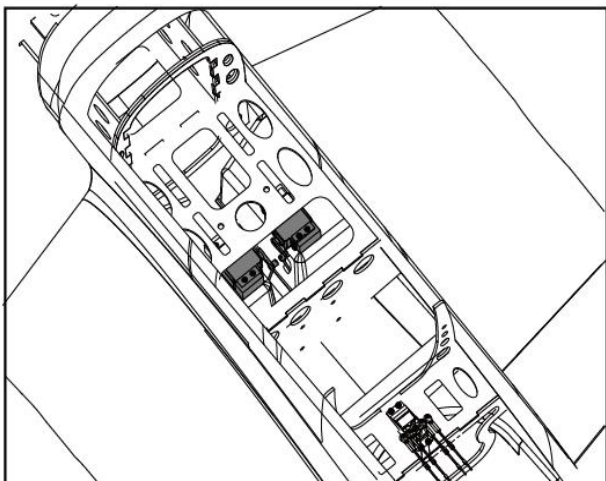


Accessory list for the coming installation steps.

| | | |
|--|------------------------|---|
| | Linkage Stopper | 2 |
| | Plastic tube (2x650mm) | 1 |
| | Fuel tank (800cc) | 1 |

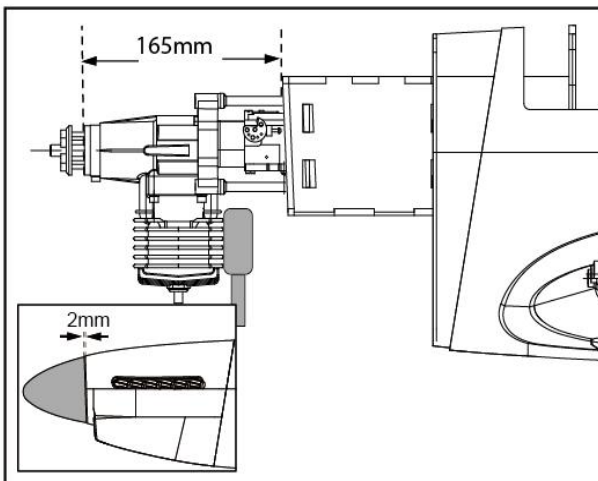
57

The sketch map of the servos for the gear doors assembled ready.



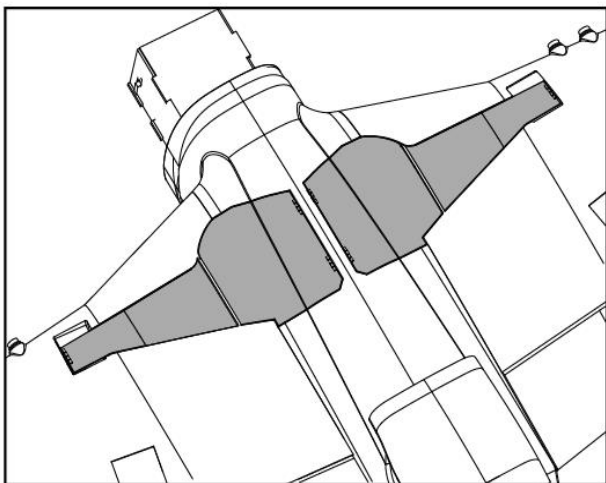
59

The side view when the engine install completion.



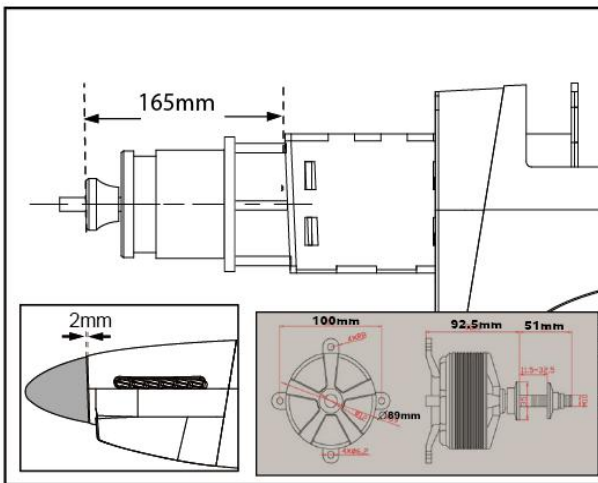
58

The view when the gear doors closed.



60

It should keep about 2mm space between the spinner and the cowl when assemble spinner to the engine.



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.



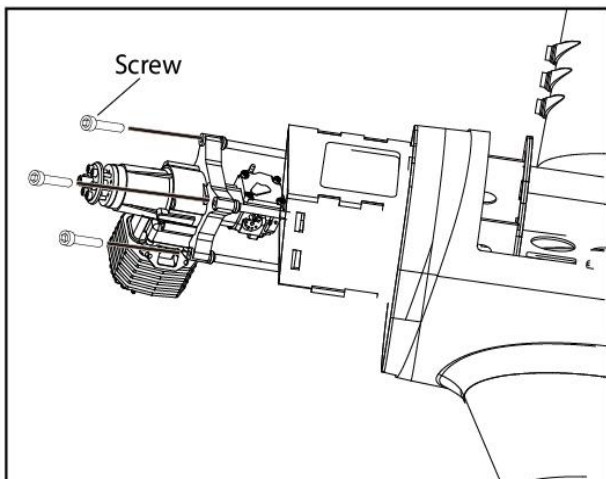
Cut off shaded portion.

Do not overlook this symbol!



61

Install the engine to the engine mount with screws.

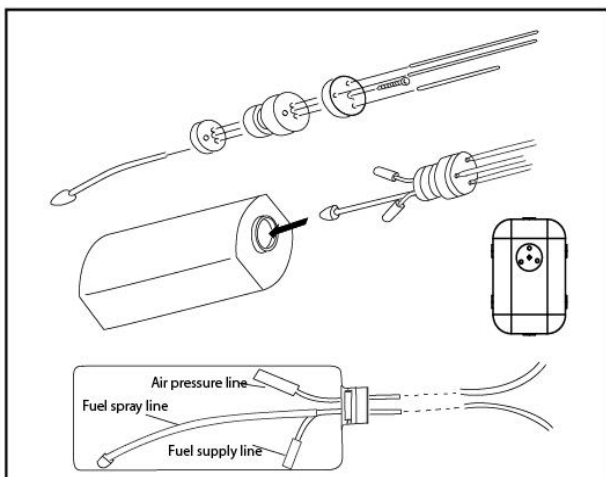


Accessory list for the coming installation steps.

| | | | | | |
|--|---------------------|---|--|--------------------|---|
| | Wheel (115mm) | 2 | | Fly frame(3mm) | 1 |
| | Exhaust | 1 | | Alu bolt | 4 |
| | Scale antenna | 1 | | Fuel tank rack (A) | 2 |
| | Air scoop | 1 | | Fuel tank rack (B) | 2 |
| | Fuel tank carrier | 1 | | Wire hook (2mm) | 1 |
| | TP Screw (2.3x8mm) | 6 | | Screw (3x10mm) | 5 |
| | TP Screw (2.3x12mm) | 8 | | Washer(3x6mm) | 5 |

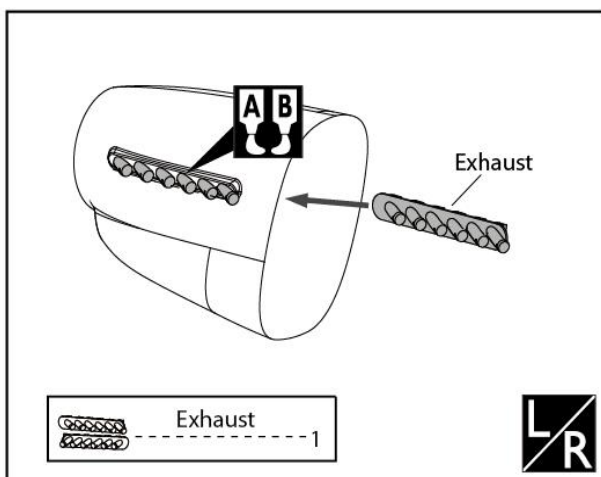
62

Assembly of the fuel tank(please notice that the plug of the tank and the tube should special for gasoline).



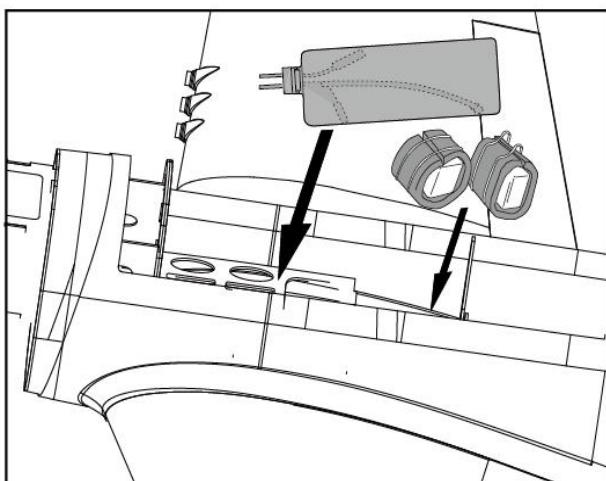
64

Epoxy the exhaust carefully to the cowl.



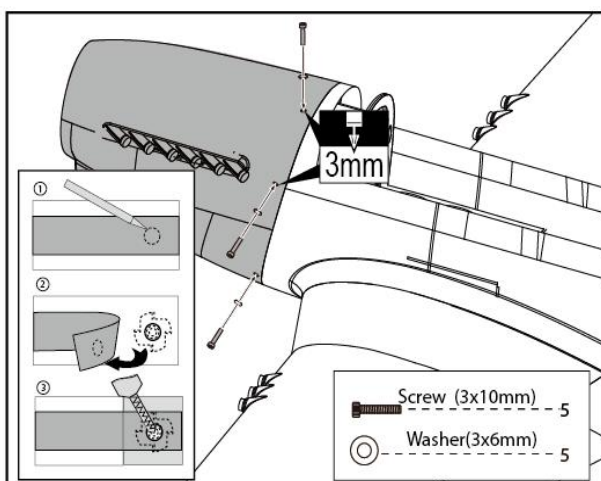
63

Mount the fuel tank, battery and receiver to the fuselage.



65

Using scotch tape, one side of it fixed, cover the blind nut hole and mark where the blind nut holes are.put the cowl to it is place on the fuselage base on the marks on the scotch tape drill holes to the cowl.



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.



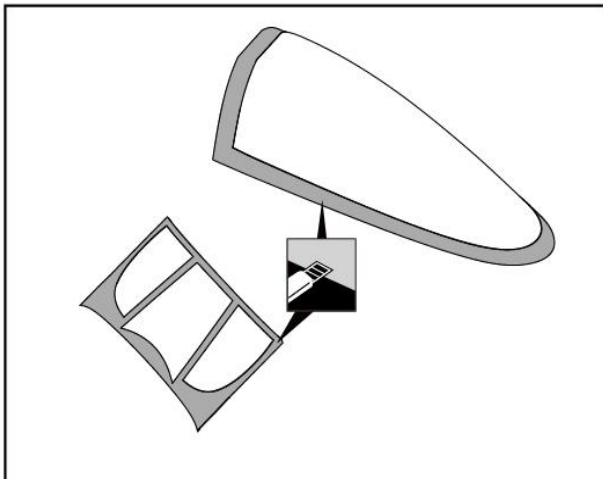
Cut off shaded portion.

Do not overlook this symbol!



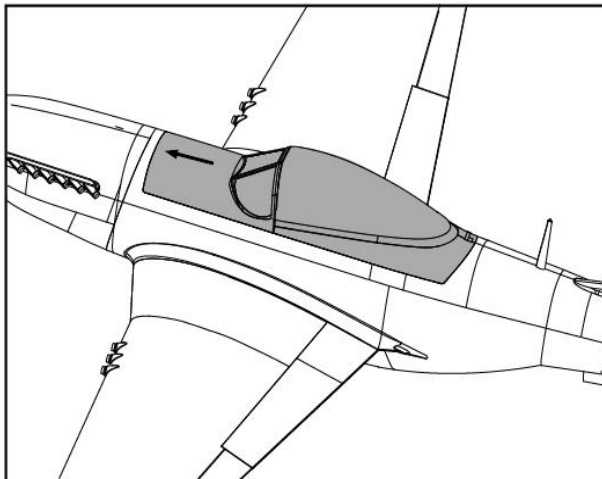
66

Cut off the surplus part from the PVC canopy.



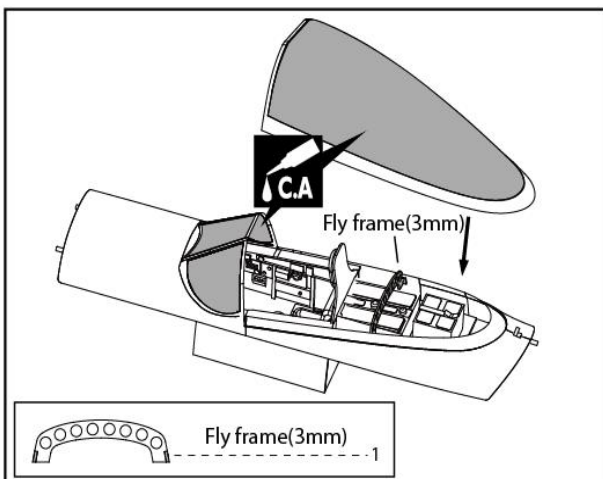
69

Assemble the cockpit to the fuselage.



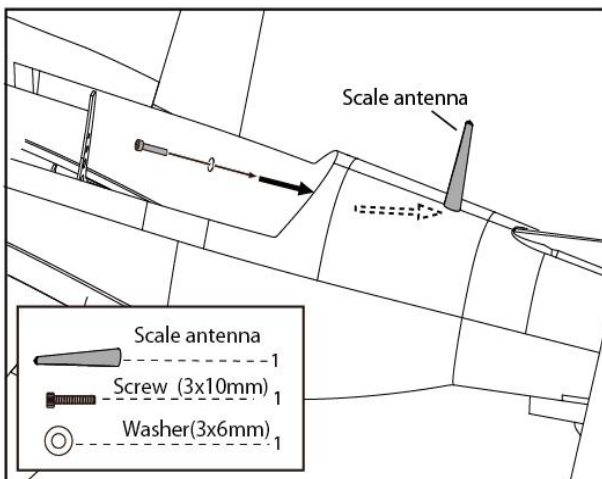
67

Glue the canopy parts to the fiber frames carefully, put the ply frame to appropriate position in the cockpit and cover the canopy to the cockpit carefully as below.



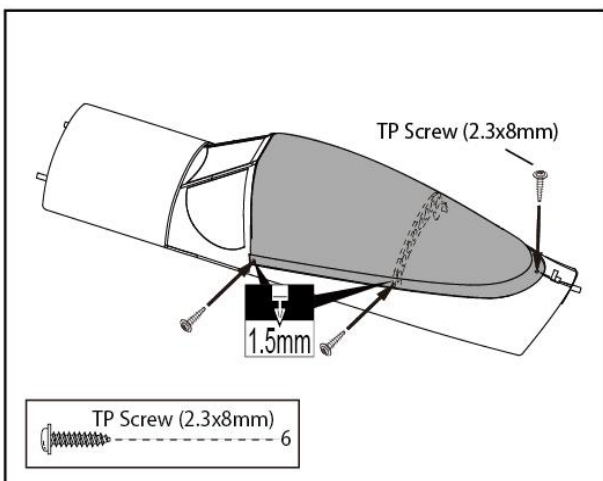
70

Take the cockpit out and assemble the scale antenna with screw as illustration.



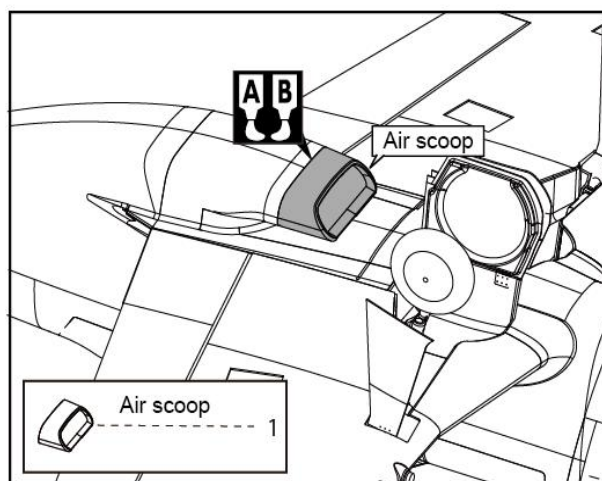
68

Fix the canopy to the cockpit with screws.



71

Epoxy the air scoop to the fuselage.



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.



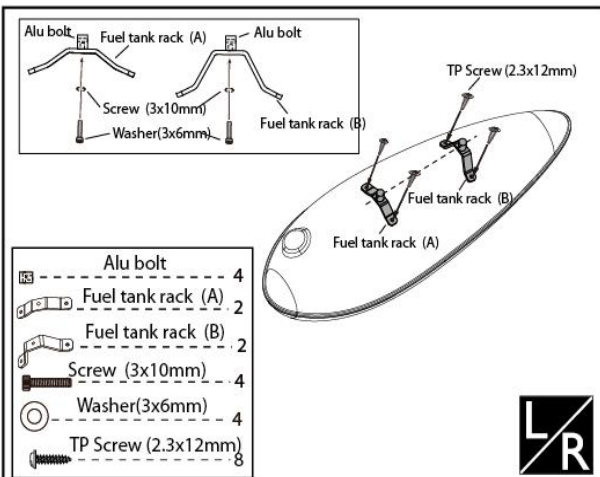
Cut off shaded portion.

Do not overlook this symbol!



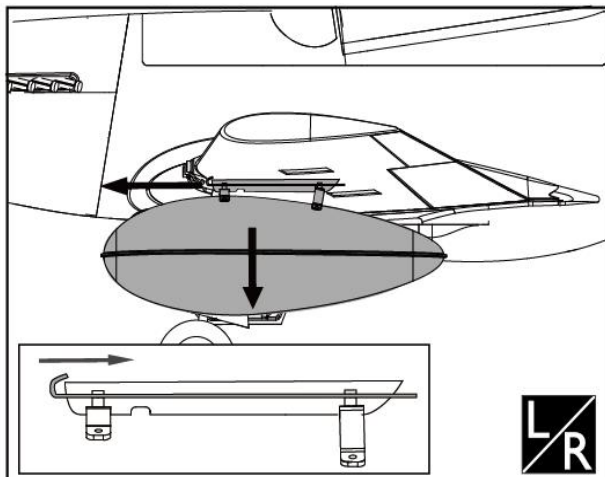
72

Install the fuel tank rack to the fuel tank with screws



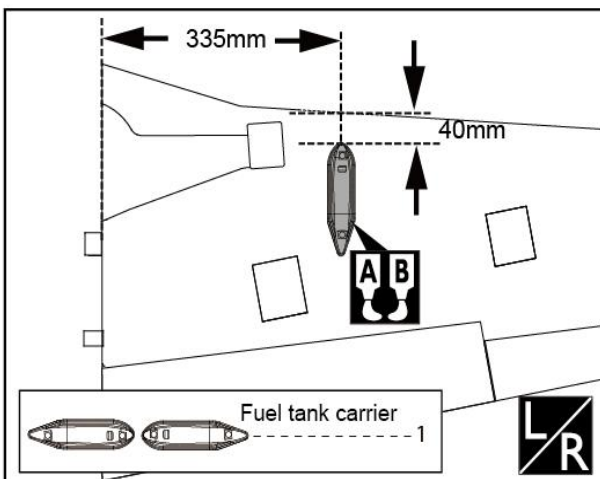
75

Put out the metal hook, the fuel tank will drop down.



73

Epoxy the fuel tank carrier to the wing carefully.

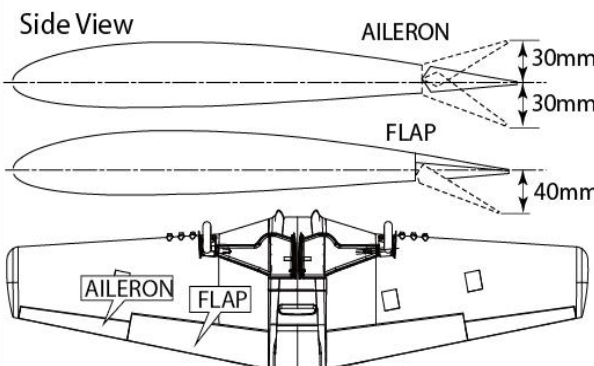


76

Adjustment.

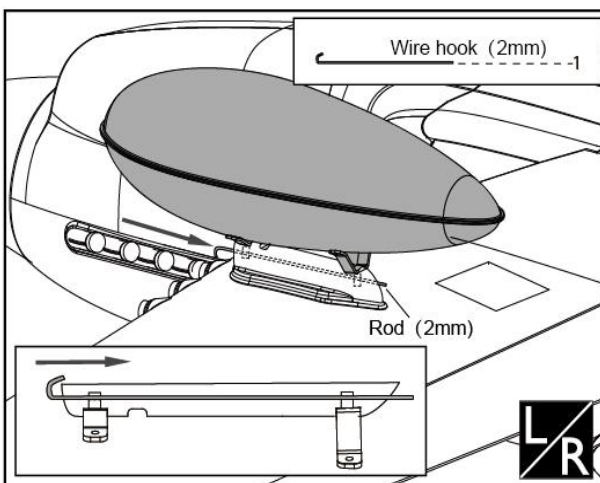


Adjust the travel of each control surface to the values in the diagrams. These values fit general flight capabilities. Readjust according to your needs and flight level.



74

Assemble the fuel tank to the fuel tank carrier with the metal hook.

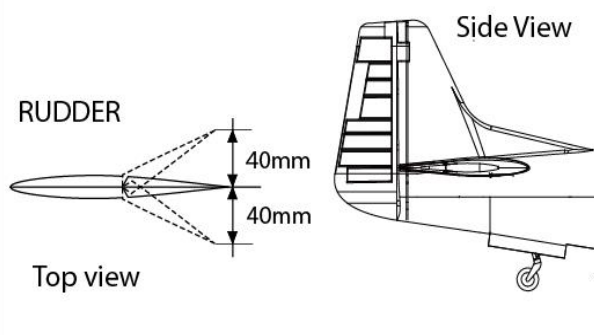


77

Adjustment.



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



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!

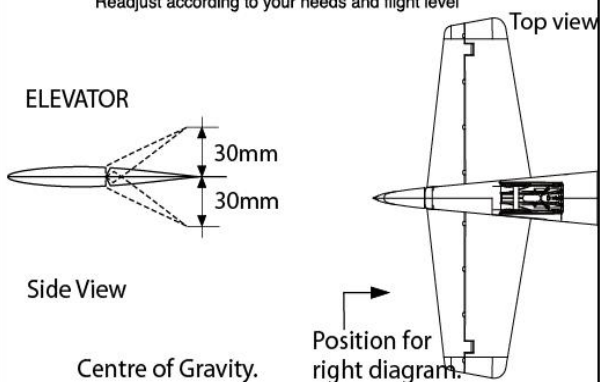


78

Adjustment.



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

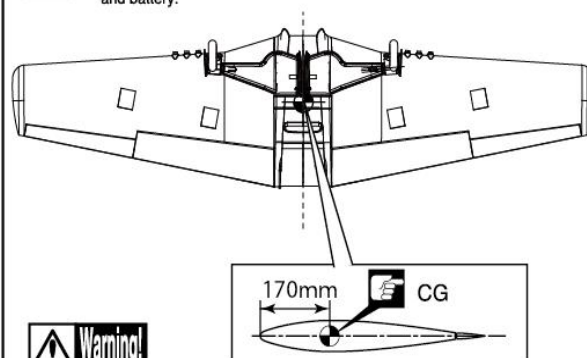


79

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.



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!










Warning!

Accessories packing list

| | | |
|---|-----------------------------|----|
|  | TP Screw (2x10mm) | 24 |
|  | TP Screw (2.3x8mm) | 8 |
|  | TP Screw (2.3x12mm) | 30 |
|  | Screw (2.6x12mm) | 4 |
|  | Screw (3x10mm) | 10 |
|  | Screw (2x10mm) | 30 |
|  | Locknut (2mm) | 30 |
|  | Washer(2x5mm) | 30 |
|  | Washer(3x6mm) | 10 |
|  | Copper joiner | 6 |
|  | Aluminum tube | 6 |
|  | Linkage Stopper | 4 |
|  | Plastic tube (2x650mm) | 1 |
|  | Push rod (2x130mm) | 2 |
|  | Push rod (2x70mm) | 4 |
|  | Rod (2x200mm) | 3 |
|  | Steel wire (0.5x3000mm) | 4 |
|  | Wire hook (2mm) | 1 |
|  | Alu bolt | 4 |
|  | Fuel tank rack (A) | 2 |
|  | Fuel tank rack (B) | 2 |
|  | Horn(2mm) | 4 |
|  | Horn(2mm) | 16 |
|  | Clevis | 20 |
|  | pivot & round hinge(5x68mm) | 28 |
|  | Pin hinge(24x24mm) | 10 |
|  | Fibre glass tube(3x300mm) | 2 |
|  | Screw (6x50mm) | 2 |
|  | Screw (3x16mm) | 24 |
|  | Screw (3x5mm) | 24 |
|  | Washer(3x6mm) | 24 |
|  | L bracket | 12 |

| | | |
|---|-----------------------------------|---|
|  | Servo tray(2mm) | 4 |
|  | Wooden Block(22x20x9mm) | 4 |
|  | Fly frame(3mm) | 1 |
|  | Exhaust | 1 |
|  | Scale antenna | 1 |
|  | Air scoop | 1 |
|  | Fuel tank carrier | 1 |
|  | Gear door (1) | 1 |
|  | Gear door (2) | 1 |
|  | Main wing joiner(30x515mm)A | 2 |
|  | Main wing joiner(20x233mm)B | 2 |
|  | Stab carbon fiber tube(14x423mm)A | 1 |
|  | Stab carbon fiber tube(14x213mm)B | 1 |
|  | Fuel tank (800cc) | 1 |
|  | Tail wheel cover hinge | 4 |
|  | Mail wheel cover hinge | 4 |
|  | Tail wheel spring 4x60mm | 1 |

Purchased separately

| | | |
|---|---------------------|---|
|  | Tail landing gear | 1 |
|  | Main wheels (115mm) | 2 |
|  | Oleo struts | 1 |
|  | TP Screw (3x20mm) | 8 |
|  | Washer(3x6mm) | 8 |
|  | Retracts strut | 2 |
|  | circuit board | 1 |

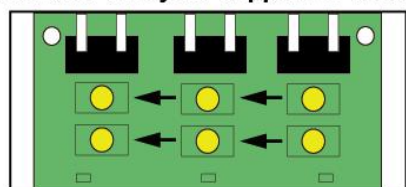
Electric retract system

Thank you very much for purchasing our TRCM optional electric retract set, all our products were passed strict QC before they shipped out to the customers. In order to avoid probably trouble happen, we still would like you to follow the steps below before you assemble our electric retracts to your plane.

1. Connecting the circuit board to the battery and receiver.



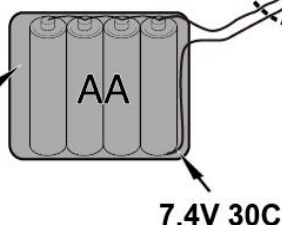
2. Turn on the radio control to check the lights on the circuit board, if the lights turn on green or turn on red orderly, 0.5 second after each from the right to the left and all the lights will turn off after 15 seconds, then the circuit will work normally. Otherwise the circuit will be a defective one if you make sure the setting on your radio control are correct, please don't use it but contact with your supplier in time.



3. Link the electric retract units to the circuit boards after the above two steps, check again the electric retracts to see if they can work normally or not.

In order to let the customers have more choices, we don't provide a uniform plugs.

For retracts



7.4V 30C

1

Receiver

4.8V



For receiver

4. Assemble the electric retracts to the plane after several times smoothly running.



Please don't ceaselessly turn and off the switch in 2 seconds, if you do this way, the circuit board will be heated.