Before start, Please carefully read the explanations!

Lavochkin LA-7

Specification;

Wingspan: 2471mm/97.3INCH

Length: 2039mm/80.3INCH

Fly Weight: 19-20KG

C.G:~202.6mm back from the landing edge at wing root

INSTRUCTION MANUAL

SADETY PRECAUTIONS

This R/C airplane is not a toy!

(The people under 18 years order is forbidden from flying 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 ares and prederably 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.

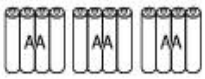
REQUIRED FOR OPERATION (Purchase separately!)

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 aiplane 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

2 Engine and Muffler

Model Airplane Engine 18-20KG Turbine

18-20KG Turbine

3 Sponge Sheet

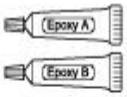
Gasoline tube

Fuel Filter

4 Glue

Instant Glue

Epoxy Glue



5 Optional electric retract set

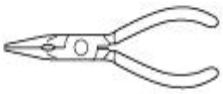
TOOLS REQUIRED (Purchase separately!)

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 recommen you use the thread lock for all the screws when you build your model.

Do not overlook this Symbol!

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!

LA-7 Accessories list

- Flat Head Self-Tapping Screws (2x10mm) — 20
- TP Screws (23x8mm) — 20
- TP Screws (23x12mm) — 10
- Round Screws (26x12mm) — 4
- Hexagon screws (3x10mm) — 10
- Round Screws (2x12mm) — 20
- Blind nut (2mm) — 20
- Washer (2x5mm) — 20
- Washer (3x6mm) — 12
- Copper joint — 6
- Copper tube (3x6mm) — 6
- Push Rob (2x130mm) — 1
- Push Rob (2x76mm) — 2
- Push Rob (2x68mm) — 2
- Push Rob (2x115mm) — 2
- Bended Push Rob (2x100mm) — 2
- Steel Wire(0.45x3000mm) — 4
- Fiber Horn(2mm) — 14
- Ball Joint (2mm) — 20
- Round Joint(5x68mm) — 3
- Plastic Tube(3x300mm) — 2

Servo Accessories

- L Bracket(25x20x3mm) — 8
- Philip's head screw(3x10mm) — 16
- Round Screws(3x8mm) — 16
- Blind nut (3mm) — 16
- Washer(3mm) — 16

- Servo Cover — 4
- Main retract Cover — 1
- Wing Aluminum Tube (30x535mm) — 2
- Wing Aluminum Tube (20x420mm) — 2
- Elevator Carbon Fiber Tube(16x453mm) — 1
- Tank(80CC) — 1
- Wing Fiber hinges — 8

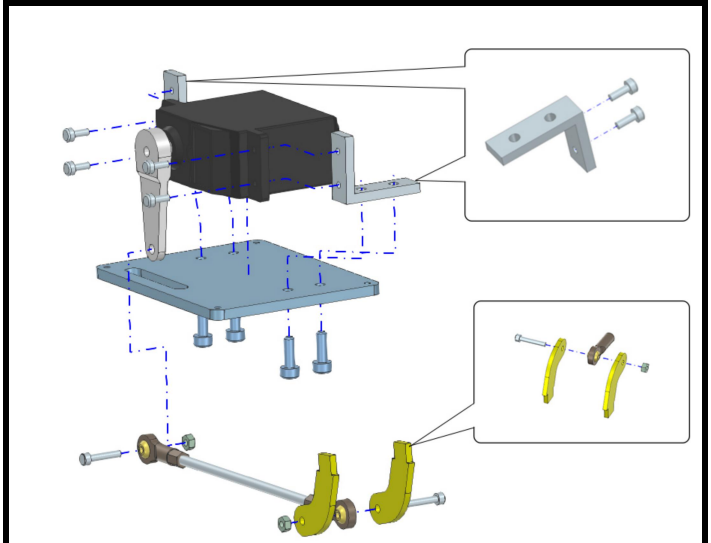
Cowling Accessories

- Round Screws (3x10mm) — 6
- Washer (3x6mm) — 6

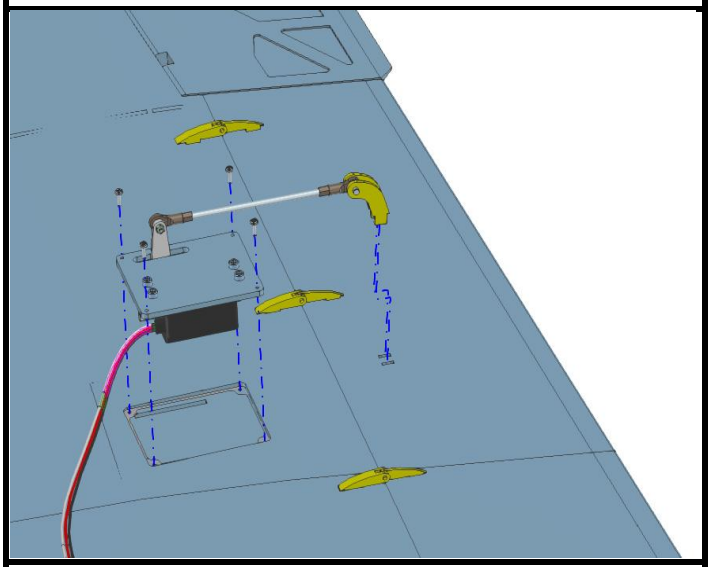
Retract Accessories

- Tail Retract — 1
- Main Retract — 2
- Gear cover Position Board (3mm) — 4
- Gear Cover Washer(3mm & 2mm) — 4
- Round Screws(3x10mm) — 8
- Hexagon Screws(2x12mm) — 4
- Nut (2mm) — 4
- Push Rob(2x58mm) — 2
- Joint(2mm) — 4
- Main Gear Screws(3x20mm) — 8
- Washer(3x6mm) — 8
- Controller — 1

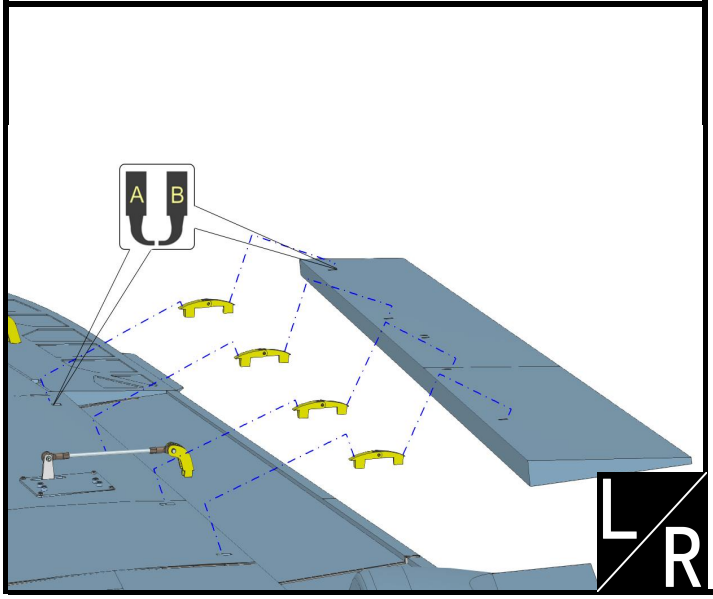
1.Install the L brackets to the servo of flap and aileron as illustration below. And then fit servo on servo cover with screws



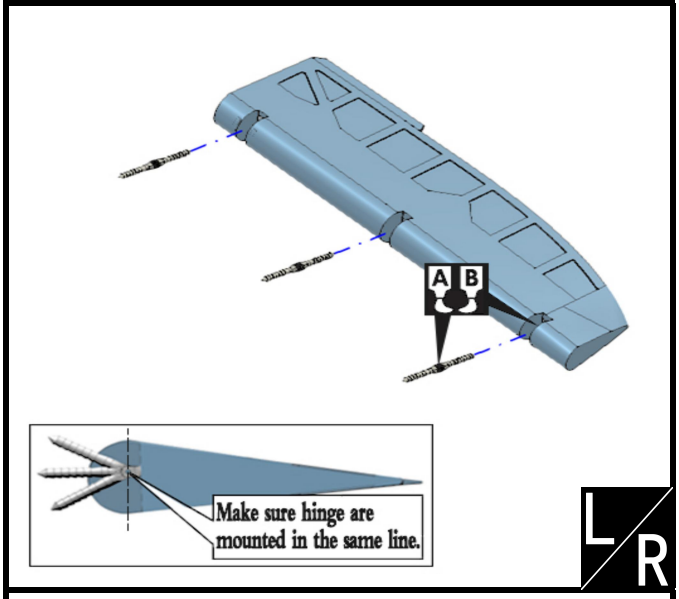
2. Install the servo into the flap with expoxy and screw



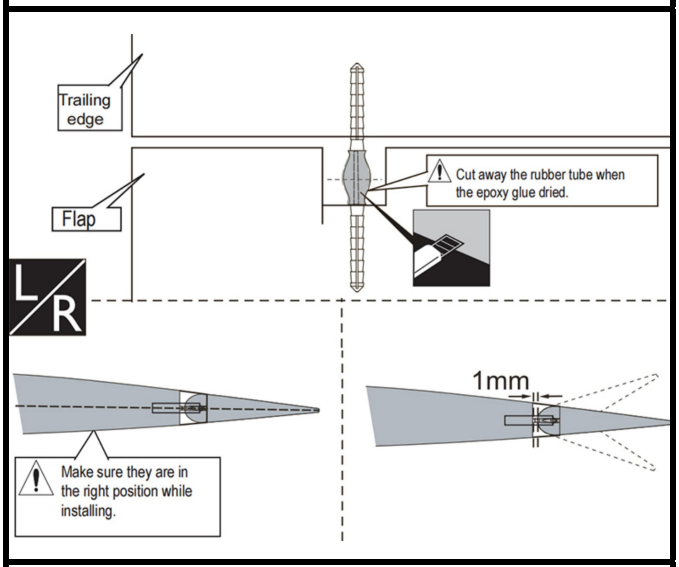
3.Epoxy the flaps to the wings as illustration.



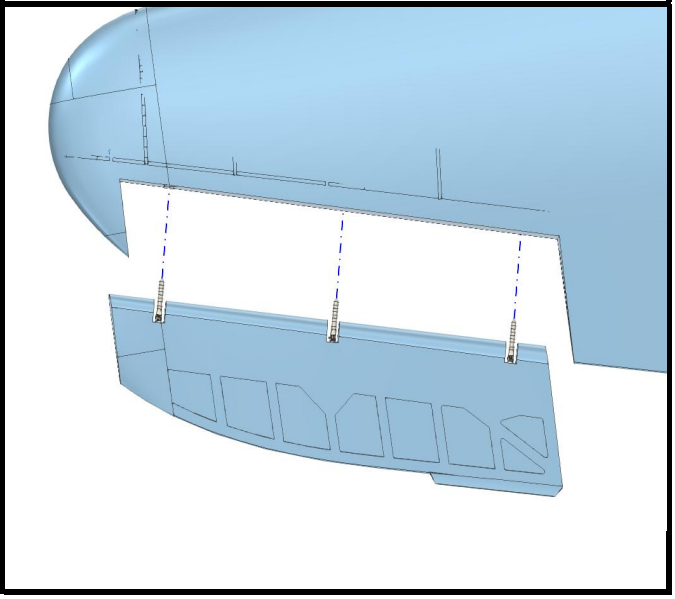
4.Apply instand type AB glue to the holes in the aileron and hinges.



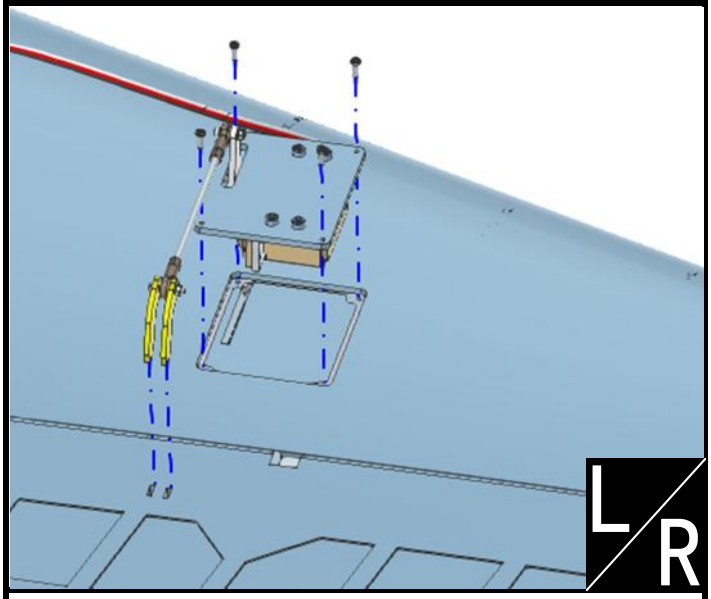
5.Keep some space about 1mm width between the trailing edge and the aileron.



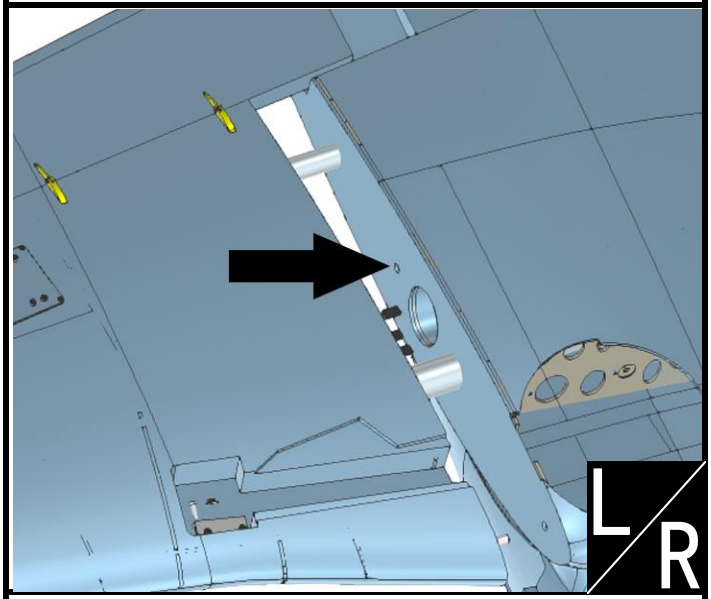
6.Assemble the aileron to main wing with instant type AB glue. Be careful to ensure the moving parts of the hinges are able to move freely



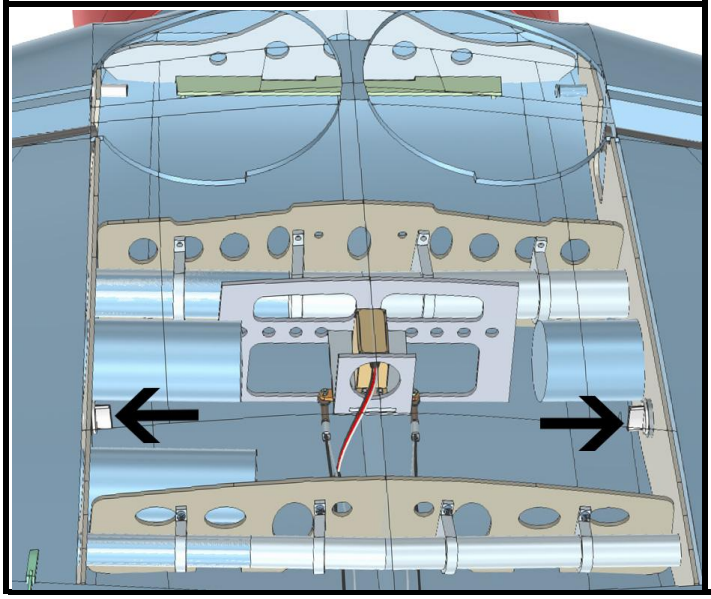
7.Assemble the servo of the aileron to the wing with screws.



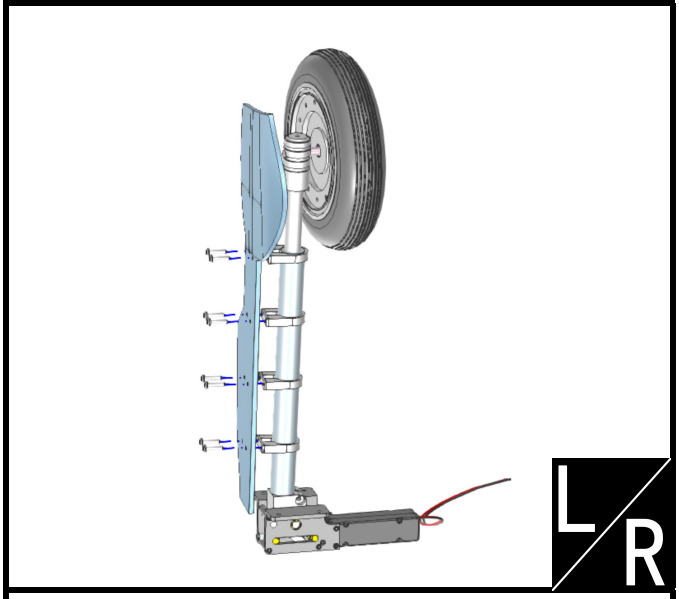
8.The position is showing about the hole which lock the wing.



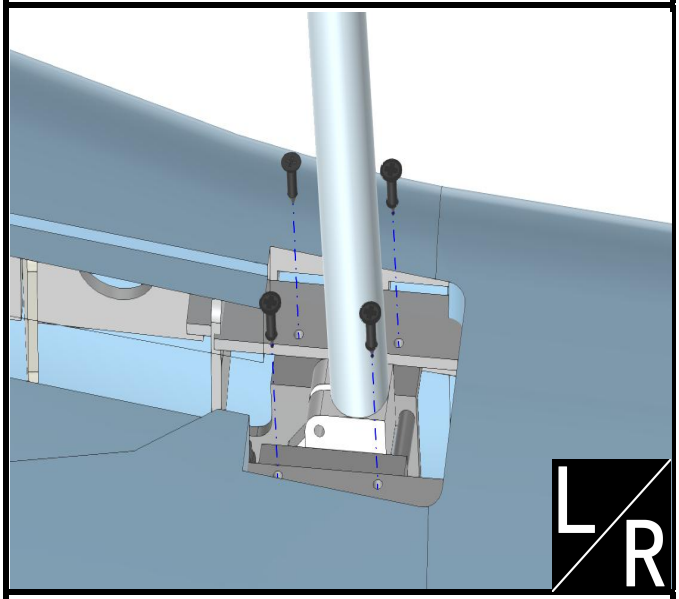
9,Lock the wing with plastic screws.



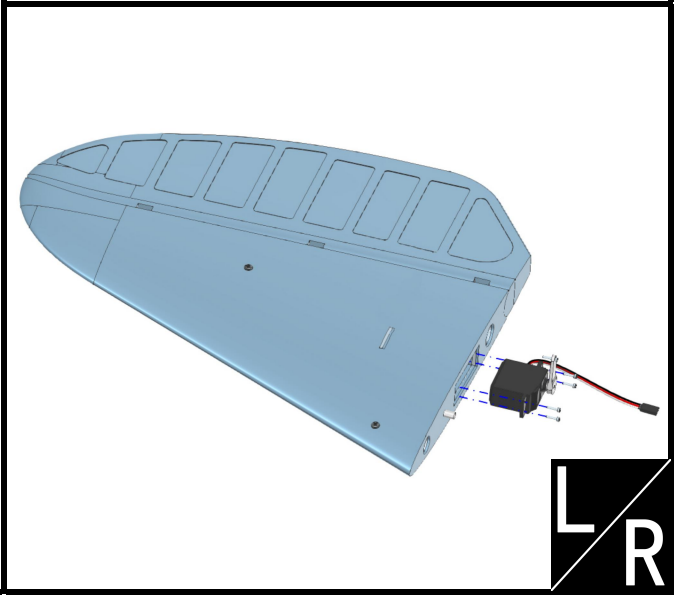
10. Fix the landing gear cover to the main landing gear with screws



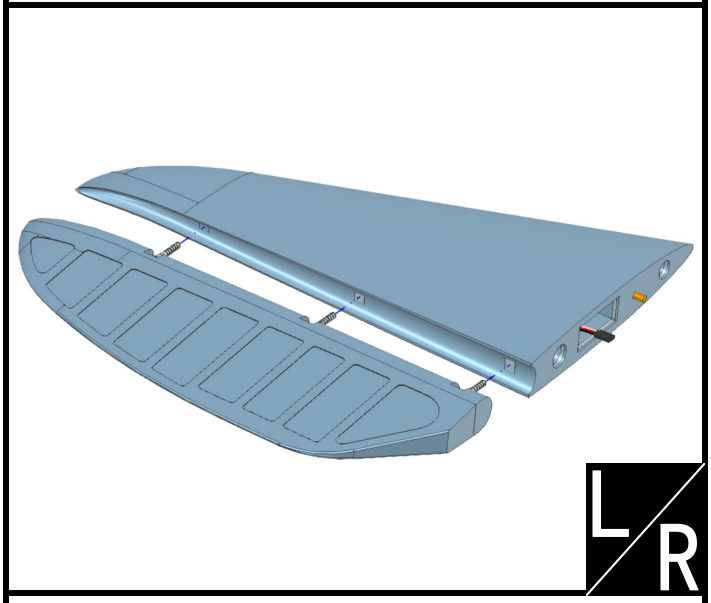
11. Fix the main retract in the wing with screws



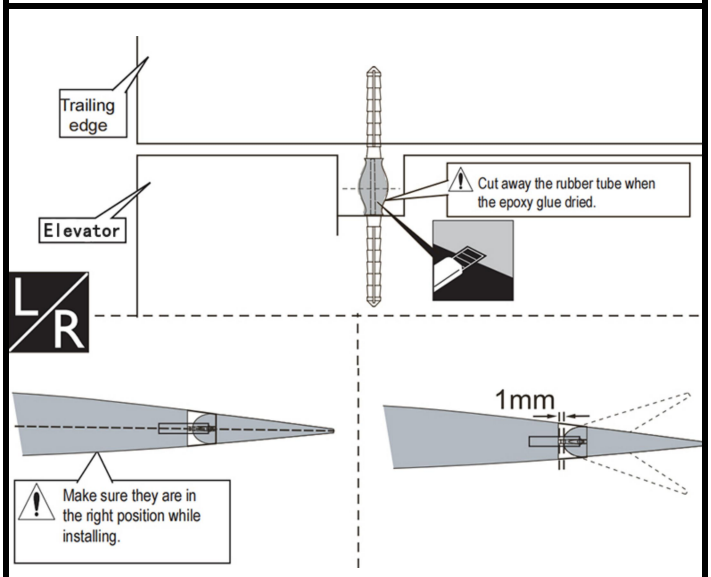
12. Install the servo into the elevator with screws



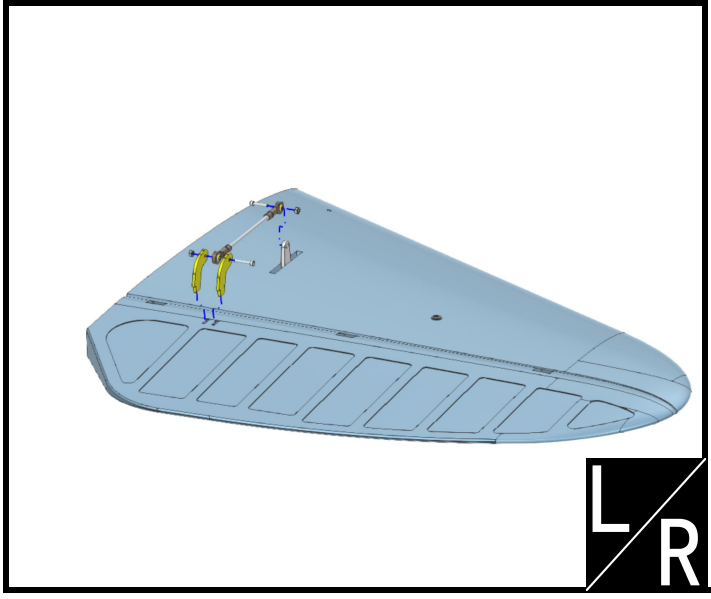
13.Apply instant type AB glue to elevator and hinges.



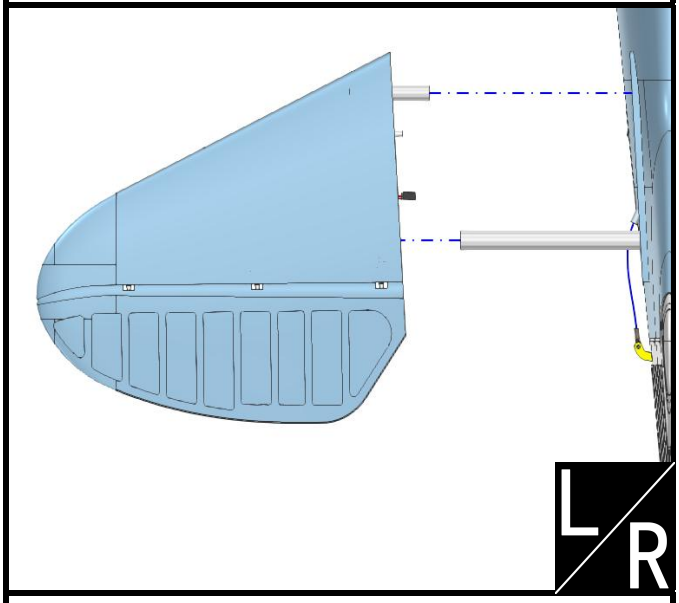
14.Keep some space about 1mm width between elevator and tailing edge.



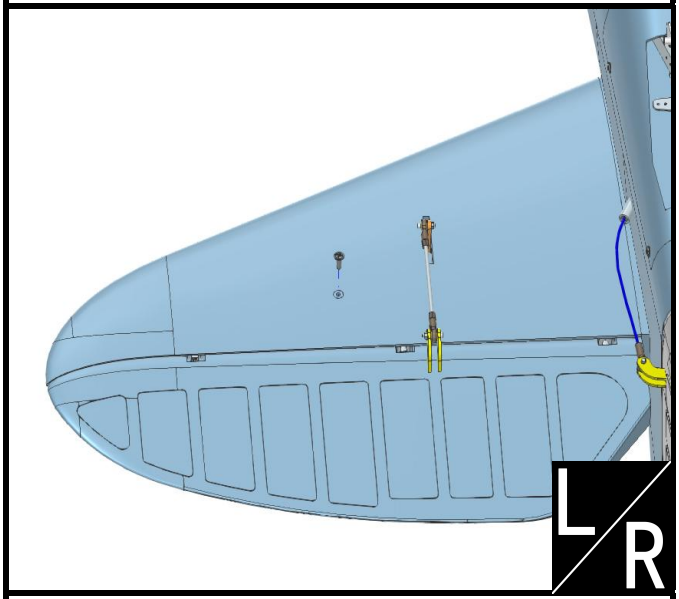
15.Install the control horn and connect the linkage. And Apply expoxy the control horn in the elevator.



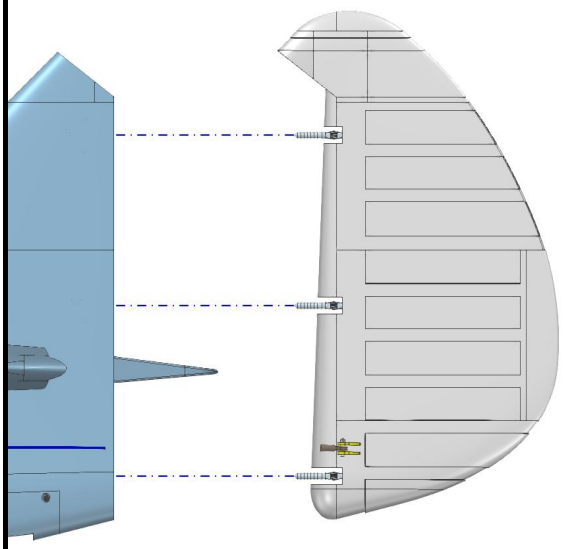
16. Plug the elevator into the fuselage.



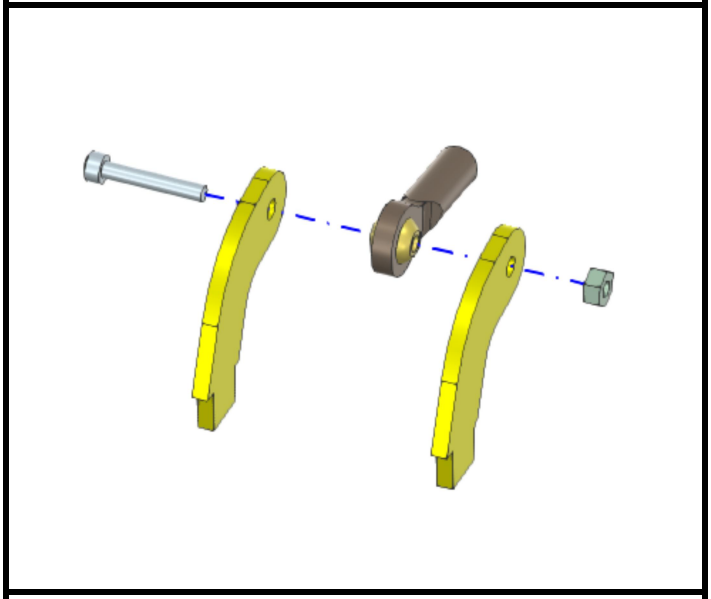
17. Lock the elevator with screws



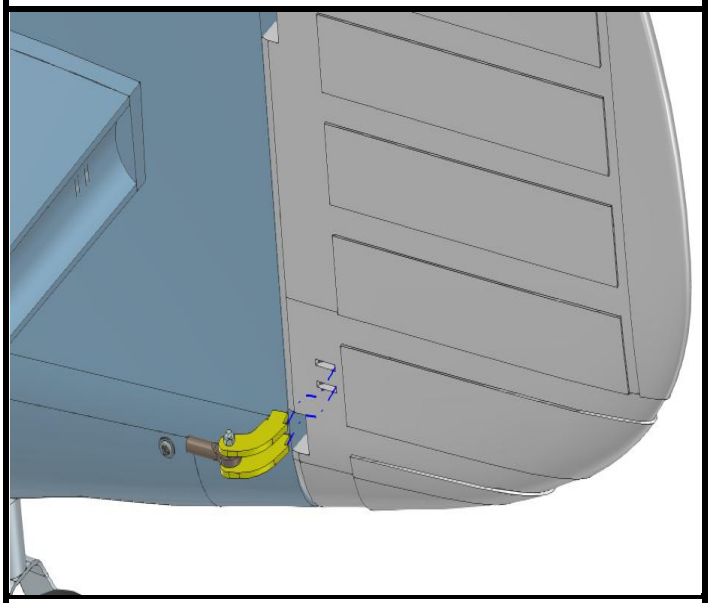
18.Epoxy the pivot & round hinges to the rudder.And epoxy the rudder to the vertical fin.



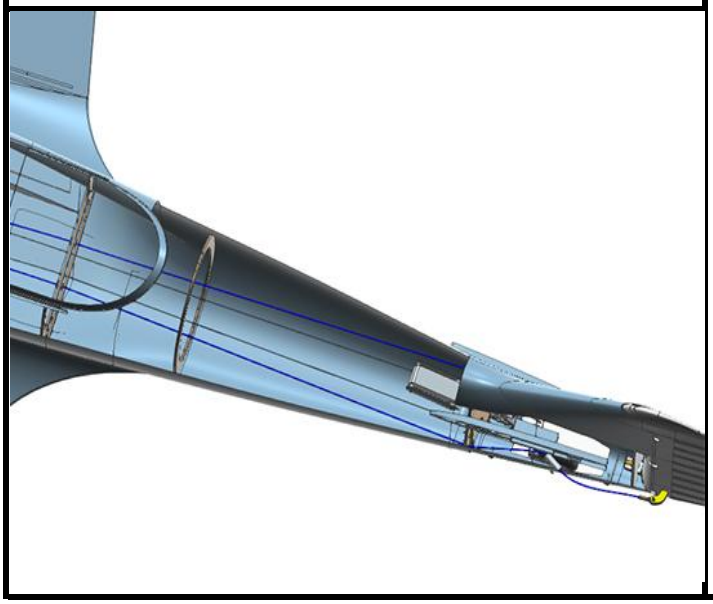
19. Assemble the rudder part as the picture showing



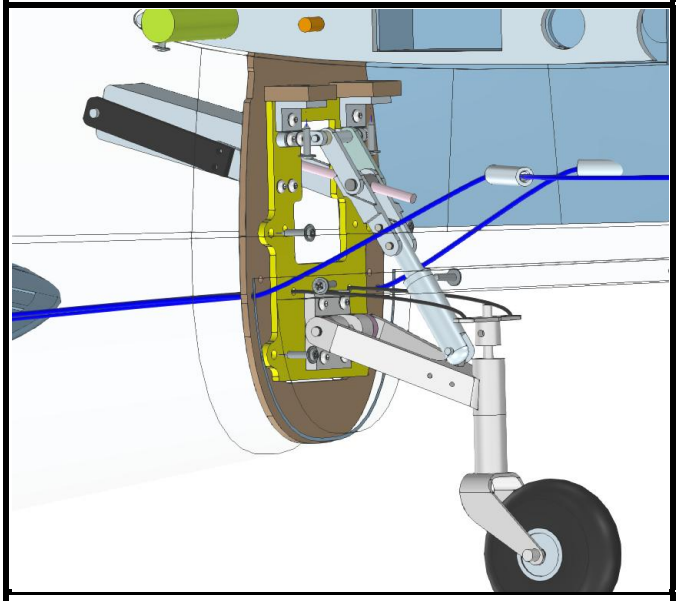
20. Glue the rudder part into the rudder with expoxy



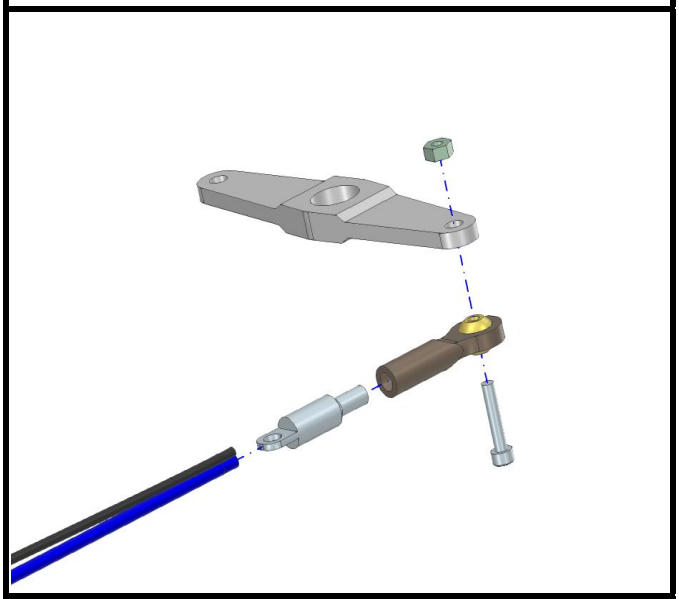
21.Connect the steel wire with the rudder parts and servo of rudder



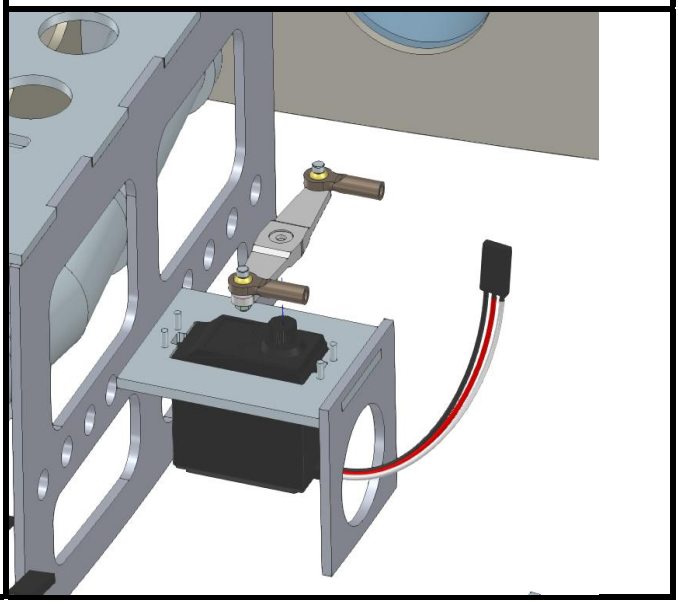
22. Fix the tail gear on the board with screws



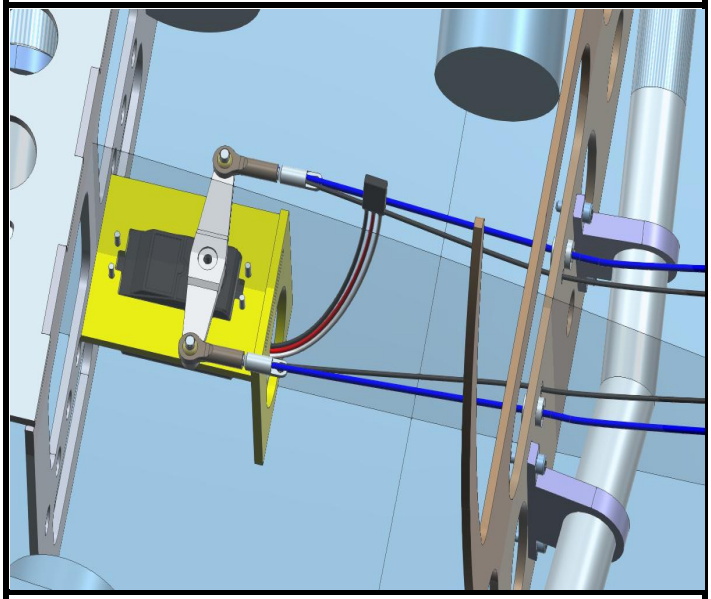
23 Install the control horn



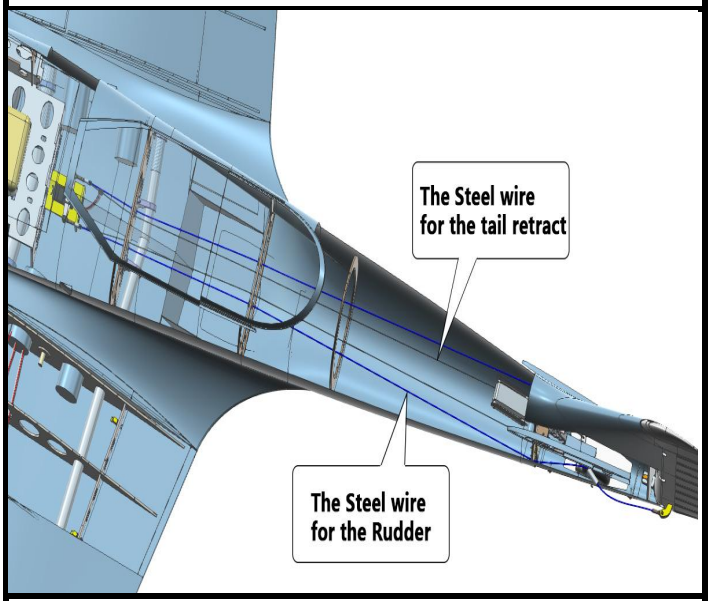
24.Connect the control hron on the servo which position in the midden of fuselage



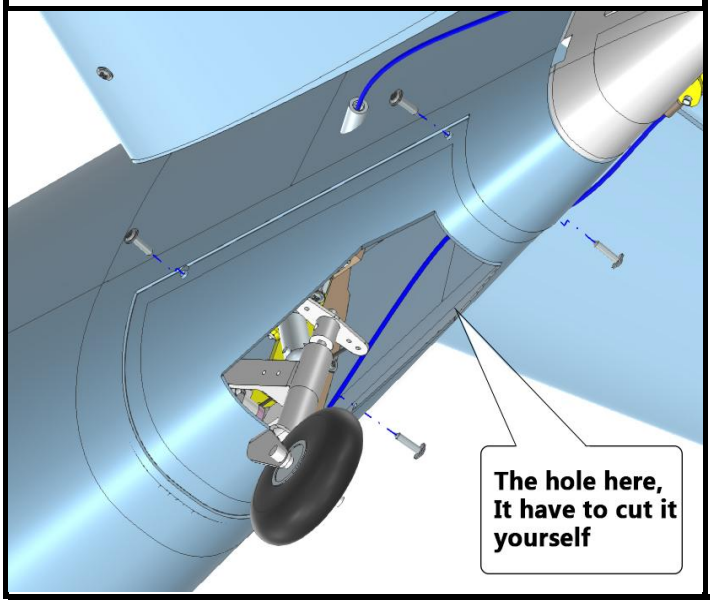
25.The servo postion as picture showing .Fix the servo in the fuselage with screws.



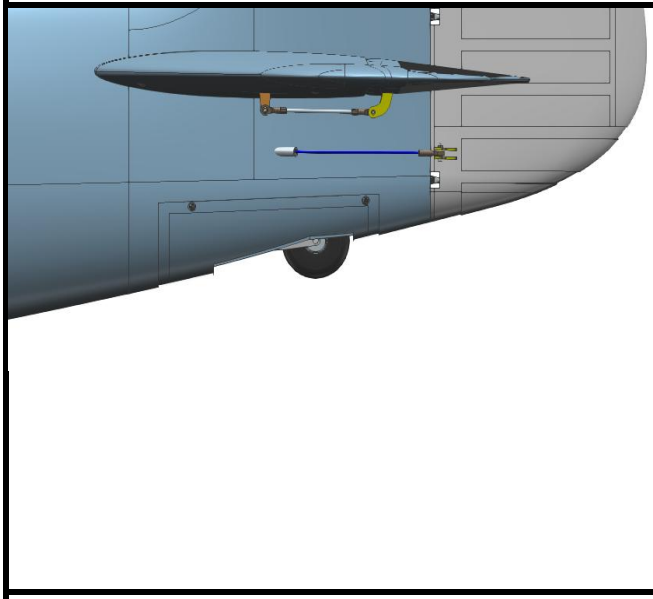
26. The steel wire for the controlling rudder and tail gear



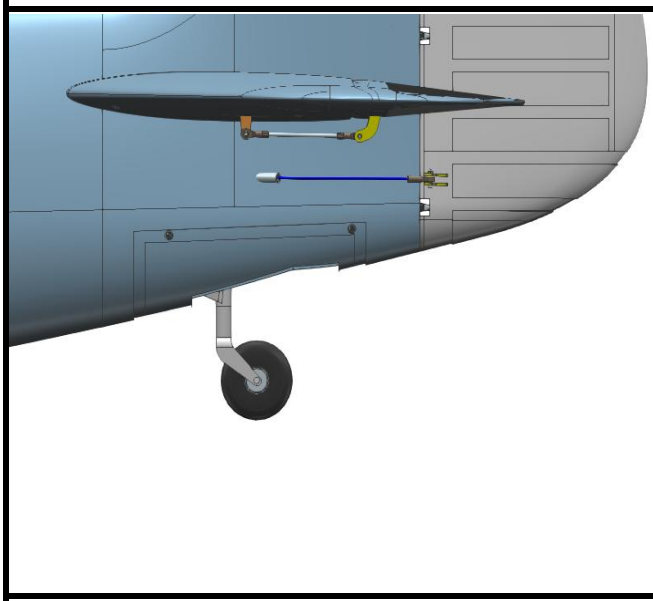
27. The hole for the tail retract have to cut by self.



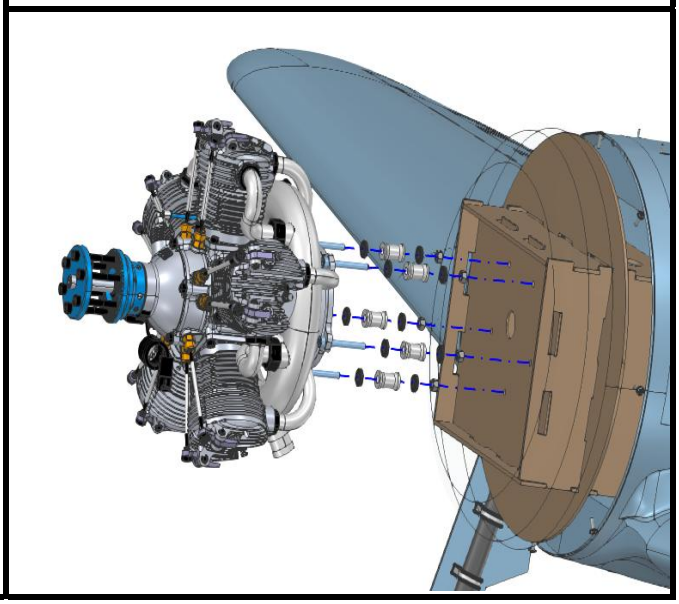
28. The picture show as the tail retract being closed.



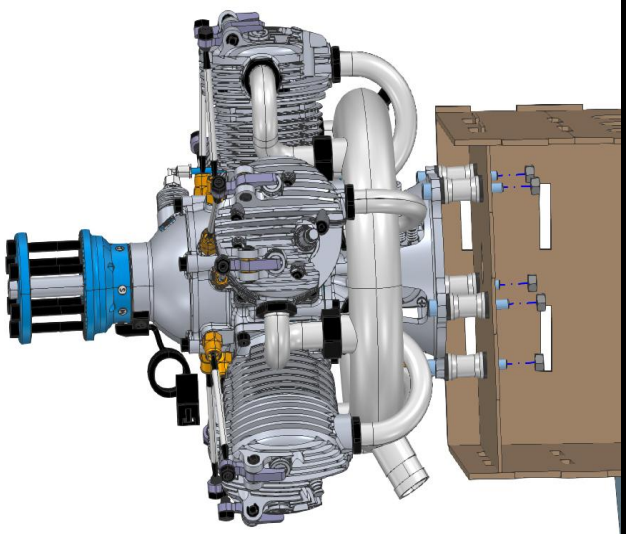
29.The picture show as the tail retract being open.



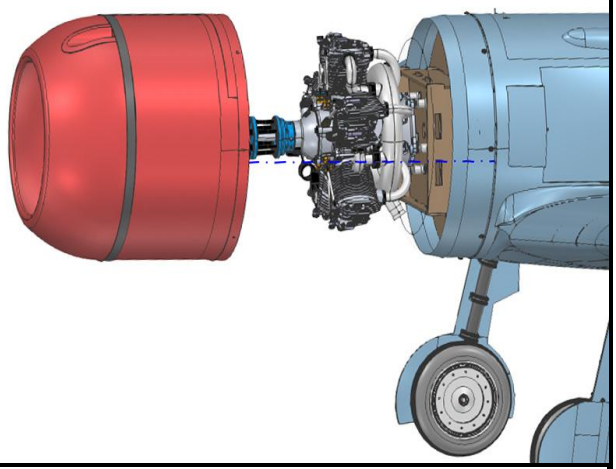
30. The engine fix on the fire board with screws.



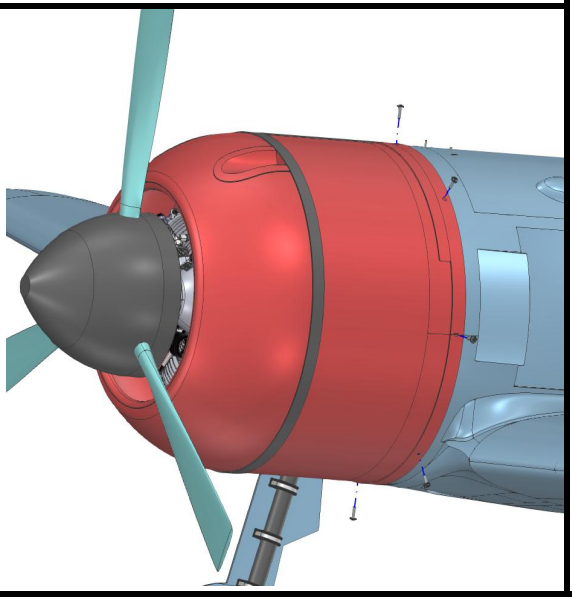
30.The picture show about the engine installing



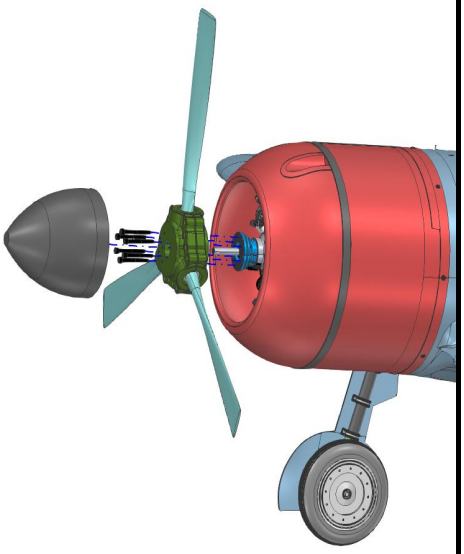
31. Fix the cowling with screws



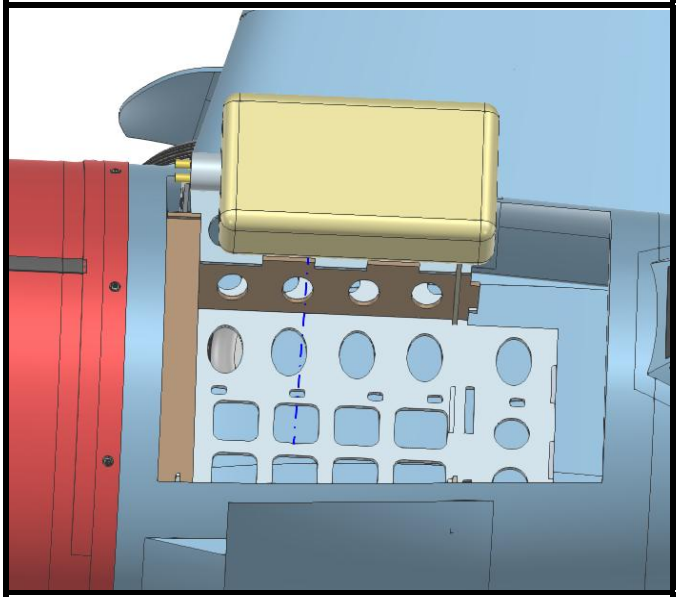
32 more picture about cowling



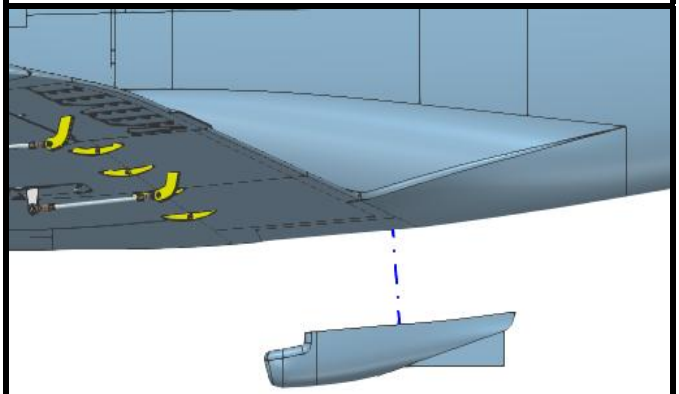
33 Fix the spinner and propeller in the engine



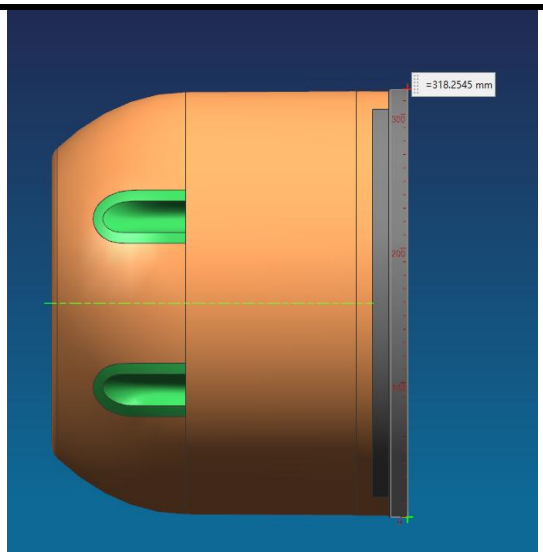
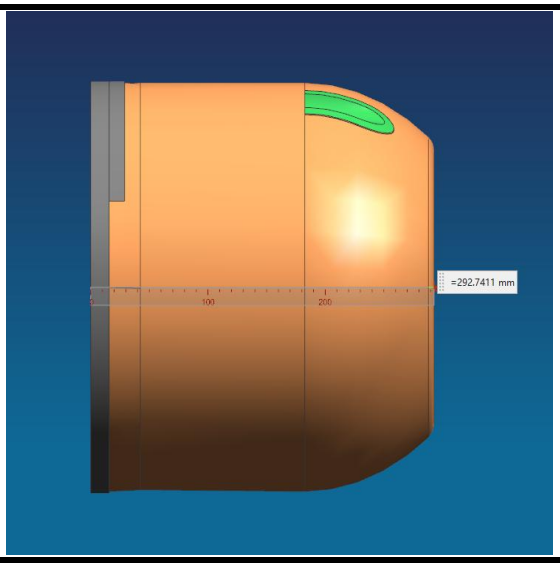
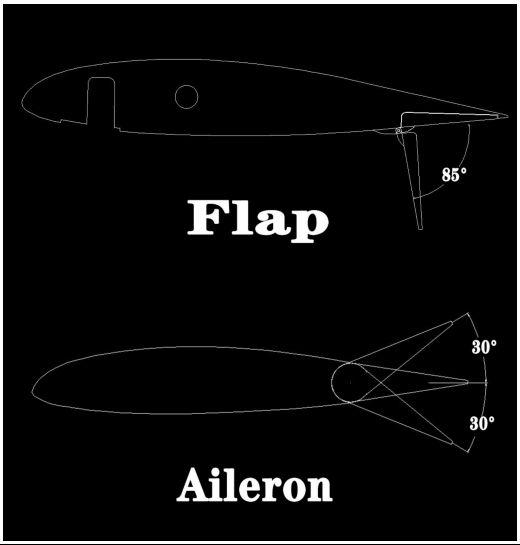
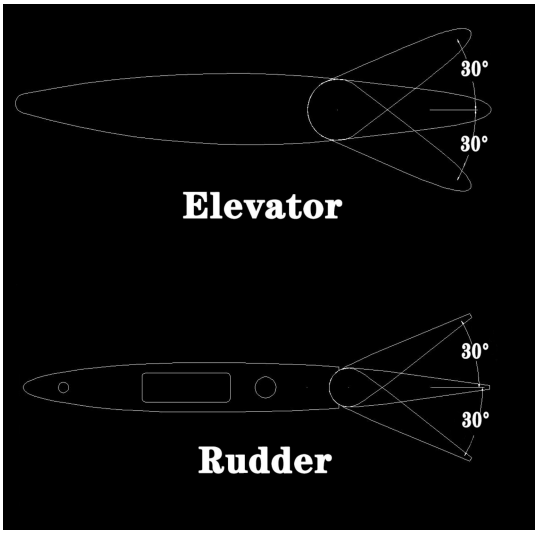
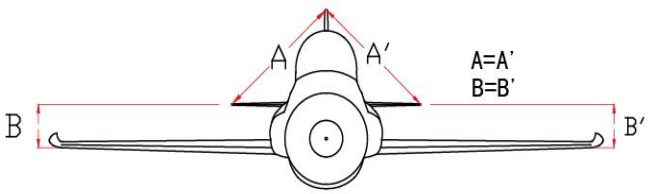
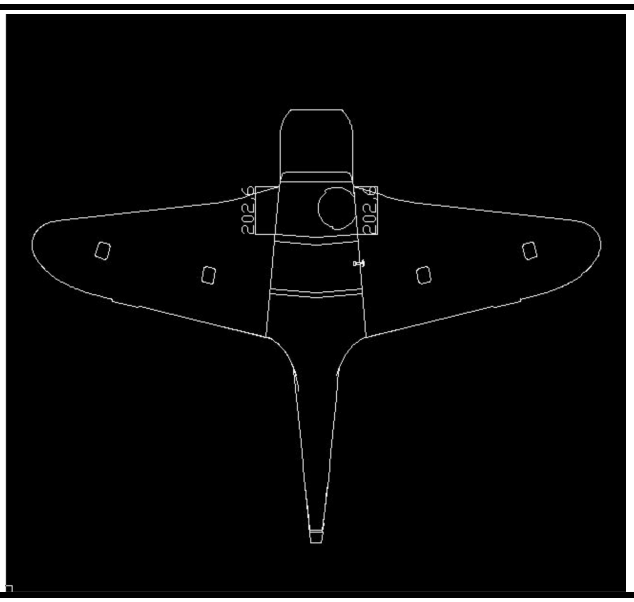
34 The picture show about the position of tank



35. Glue the fuselage part on the fuselage with AB glue



Completed the installament of the LA-7

Cowling Diameter：318.2mm		**Cowling Length：292.7mm**
		
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.		**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.**
		
Check all the datas well. make sure all sections glue tightly. Otherwise if coming off during flights, you'll lose control of your airplane which leads to accidents!		**C.G: Never fly before checking the CG's required position. Never fly the model without well balancing.**
		

Instructions：

1. After power on, press the test button for the first time. All hatch LIDS must be open and all landing gear must be open. If any hatch not be opened, the positive and negative of the related servo should be set; If the landing gear does not open, you need to conver the motor plug on the control box. This step is very important, and only by this way can it match the timing set of the program.

2. When setting up the forward and backward direction of the servo, better to plug all retract mode button to the upposition (Mode 1).

3. When setting the blocking current, it is necessary to know that the corresponding indicator light will be off during the operation of the retractable motor. When the retractable and retractable stand is in place, the motor will stop and the corresponding indicator light will turn on at this time. If the motor stops running, the indicator light is still off, indicating that the set blocking current is too large. At this time should reduce the blocking current, to ensure that the motor after blocking, the corresponding indicator light is on. Otherwise, the electricity will be easily damaged .

Therefore, during the process of use, should pay attention to the state of the corresponding indicator light.

I. Working voltage: 6-8.4V (12V power supply for large landing gear, please contact the owner)

II. The blocking current is adjustable. It is suitable for all electric retraction racks under 35KG on the market.

III. The power supply voltage of the steering gear on the hatch cover can be set

IV.The forward and backward direction and stroke of the door servo can be set separately

V. Each gear door servo can be set with 2 modes of retracting separately (1. After the landing gear opened, the gear door will not be retracted; 2. Landing gear open, gear door retracted)

VI. Specification: three in one controller(74*64*15MM)