

Before start ,please carefully read the explanations!

# Sport jet Odyssey ARF



## Specification:

Wing Span: 2320mm/91in

Length: 2190mm/86in

Flying Weight: ~12kg

Turbine: 10~14kg

Radio: Min. 9 ~ 11 Servos required

R/C System: 8+ channel radio system

C.G: 210~215mm from the leading edge

## 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.

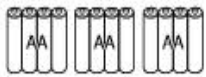
- 1 A minimum 6 channel radio for airplanes (with 8 servos), and dry batteries.



**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 10-14 KG Turbine



3

Sponge Sheet



Gasoline tube



Fuel Filter



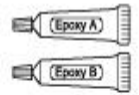
4

Glue

Instant Glue



Epoxy Glue



5

Optional electric retract set



## TOOLS REQUIRED (Purchase separately!)

Sharp Hobby Knife



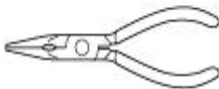
Phillips Screw Driver (l, m, s)



Awl



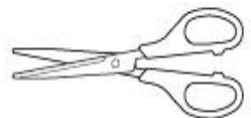
Needle Nose Pliers



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



Apply epoxy glue.



Apply instant glue (CA glue, super glue).



Drill holes with the specified diameter (2mm).



Cut off shade portion.



Cut off excess.



Ensure smooth non-binding movement while assembling.



Pay close attention here!



Assemble left and right sides the same way.



















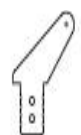
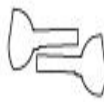



Must be purchased separately!

Do not overlook this Symbol!







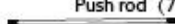






**Warning!**

## Accessories packing list

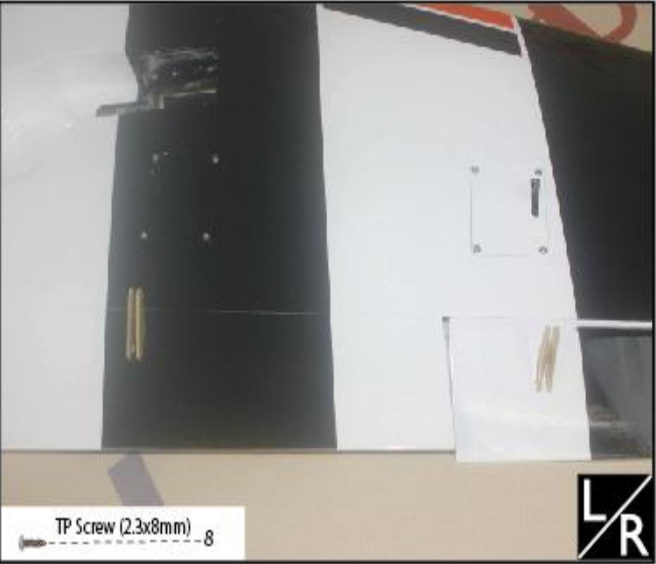
|   |                    |    |  |                          |   |
|---|--------------------|----|--|--------------------------|---|
|    | TP Screw (2.3x8mm) | 14 |     | Wing tube (30x895mm)     | 1 |
|    | TP Screw (3x14mm)  | 20 |     | Stab tube (14x575mm)     | 2 |
|    | Washer(3x6mm)      | 16 |     | Vertical tube (14x248mm) | 2 |
|    | Washer(4x8mm)      | 8  |    | Push rod (76x2mm)        | 6 |
|    | Screw (3x10mm)     | 8  |    | Push rod (88x2mm)        | 1 |
|    | Screw (2x12mm)     | 17 |  | Rod (2X100mm)            | 2 |
|  | Locknut (2mm)      | 17 |   | Retainer                 | 2 |
|  | Screw (4x25mm)     | 8  |   | Wood 22x20x9             | 4 |
|  | Horn               | 14 |   | Gear door                | 1 |
|   | Clevis (2mm)       | 16 |   | Ply frame for tail pipe  | 1 |
|  | Fuel tank          | 1  |  |                          |   |



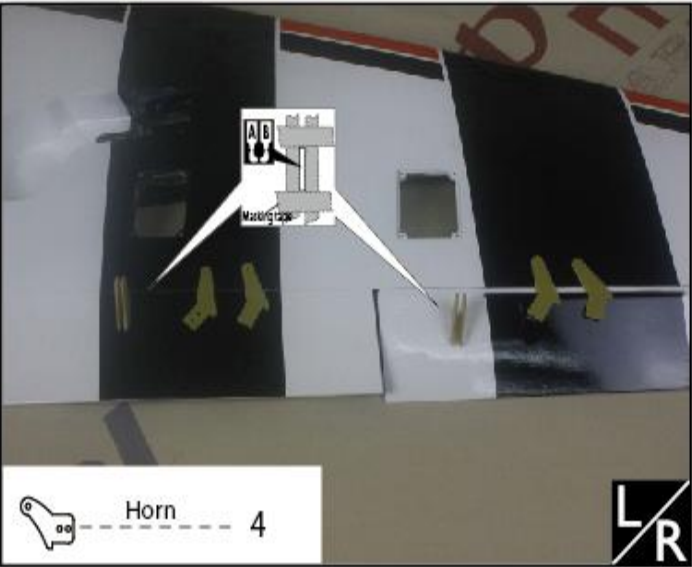
Accessory list for the coming installation steps.

|  |                   |   |   |                    |   |
|--|-------------------|---|---|--------------------|---|
|  | Horn              | 8 |  | Washer(3x6mm)      | 8 |
|  | Clevis (2mm)      | 8 |  | Screw (3x10mm)     | 8 |
|  | Push rod (76x2mm) | 4 |  | TP Screw (2.3x8mm) | 8 |
|  | Screw (2x12mm)    | 8 |  | Wood22x20x9        | 8 |
|  | Locknut(2mm)      | 8 |  | Gear door          | 1 |
|  | TP Screw (3x14mm) | 8 |   |                    |   |

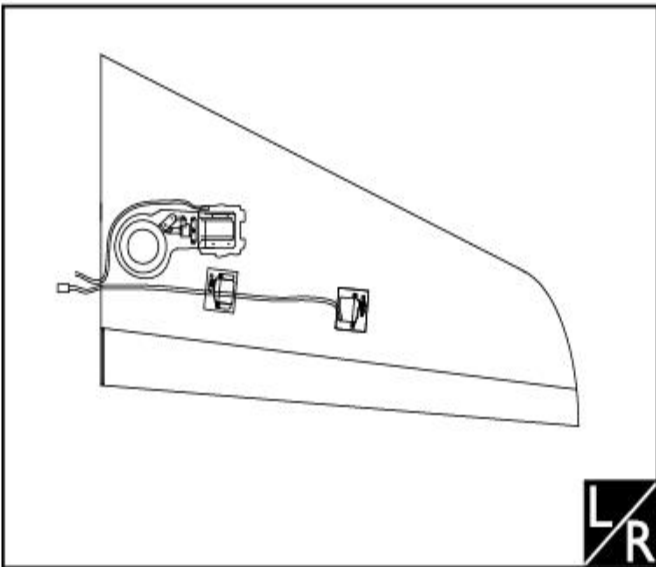
3. Fix the servo trays to the wings with screws.



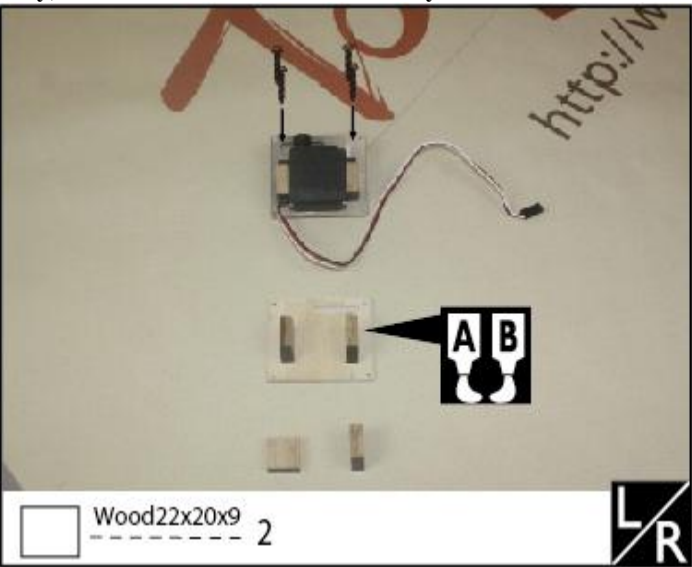
1. Apply AB glue to the slots in the ailerons, flaps and assemble the horns into them.



4. The sketch map of the outgoing lines for servos and retracts.



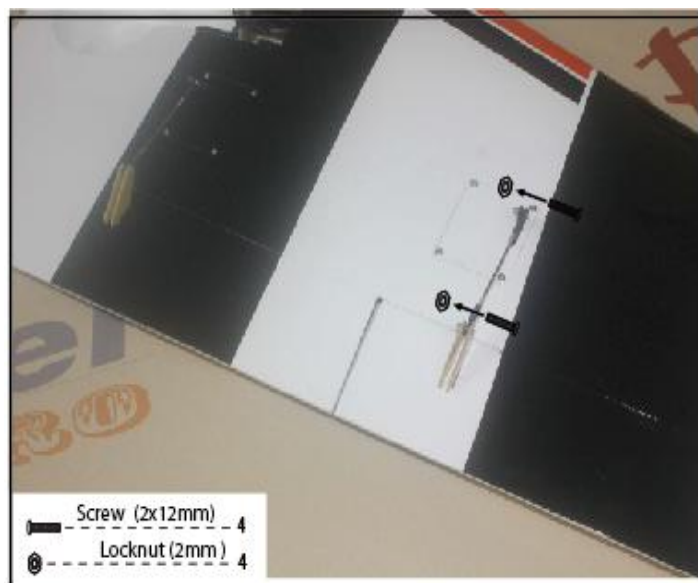
2. Epoxy the wood block to appropriate position on the servo tray, Install the servo to the servo tray as below.



5. Assemble the clevis to the push rod .



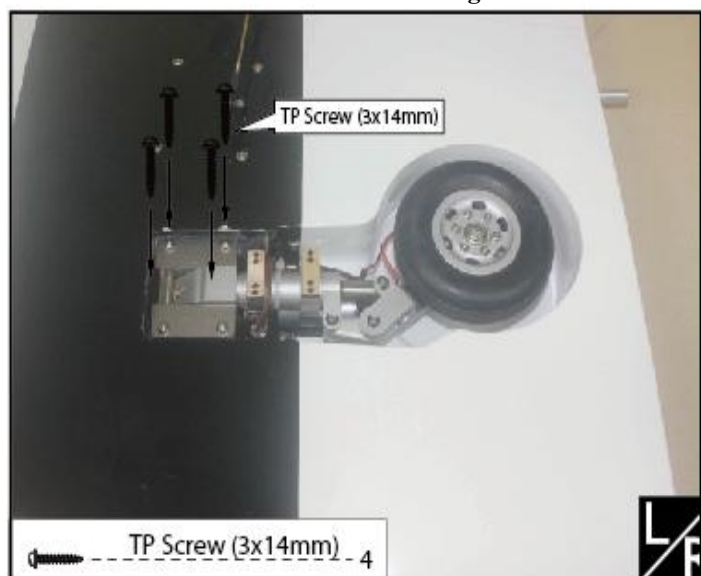
6. Connect the horn to the servo arm with screw.



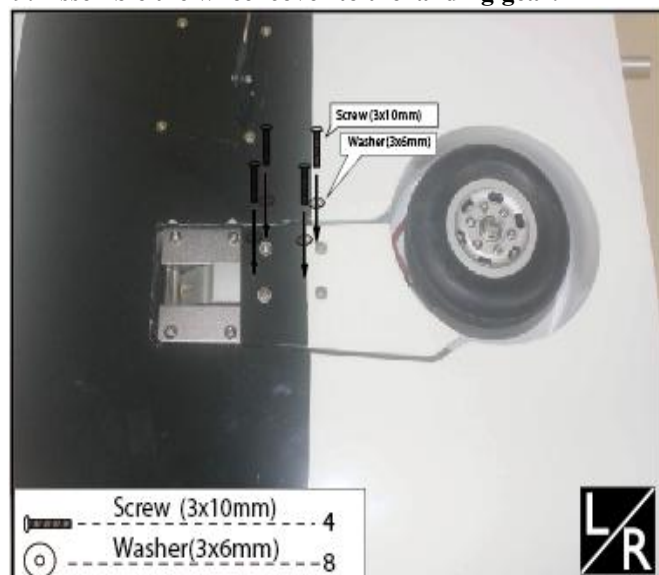
7. Prepare the main retracts to be assembled to the wing.



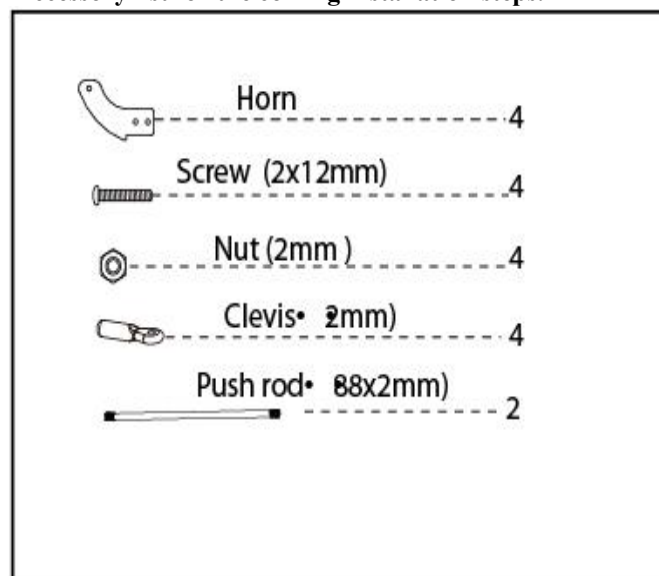
8. Assemble the main retracts to the wing with screws.



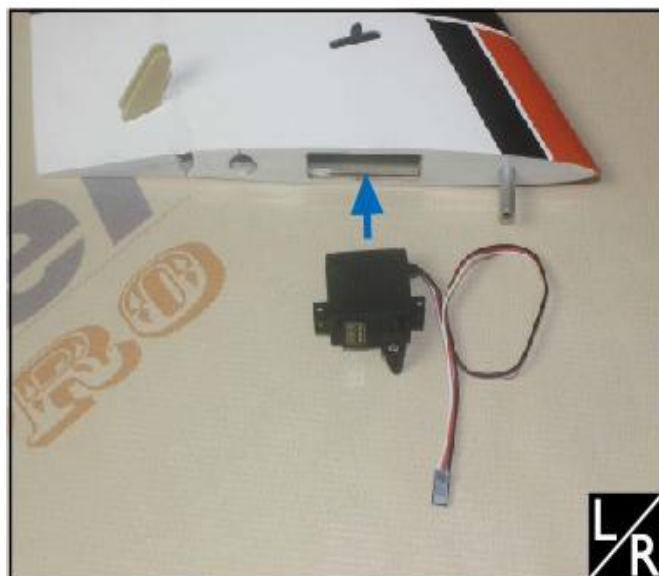
9. Assemble the wheel cover to the landing gear.



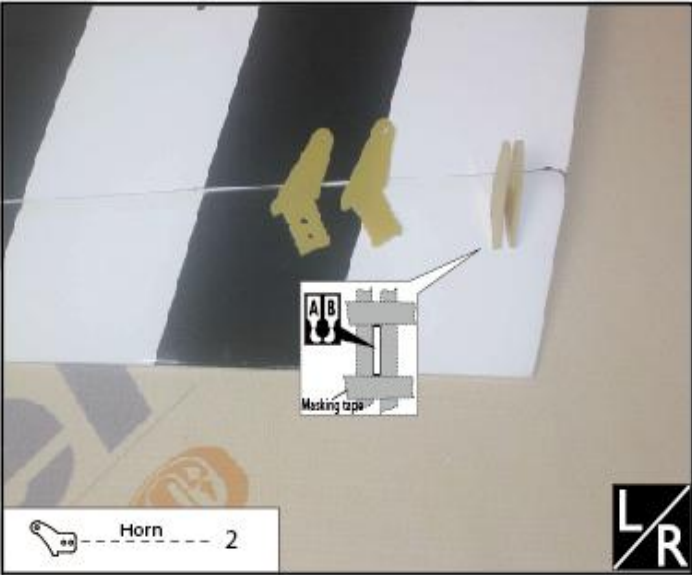
Accessory list for the coming installation steps.



10. Assemble the servo to the stabilizer through the slots on the stab root.



11. Apply instand type AB glue to the slots in the stab and put the horns in it. Use tape around the slots during assemble the horns to keep clean.









12. Use a sharp knife to open a slot to let the servo arm come out.



13. Connect the fiber horns to the servo arms with the linkage and locked each side with screws and locked nut.



Accessory list for the coming installation steps.

|  |                              |   |
|--|------------------------------|---|
|   | Horn                         | 2 |
|   | Screw (2x12mm)               | 2 |
|   | Nut (2mm)                    | 2 |
|   | Clevis (2mm)                 | 2 |
|   | Push rod (88x2mm)            | 1 |
|  | pivot & round hinge (5x68mm) | 3 |

14. Apply instand type AB glue to the slots in the rudder, vertical fin.

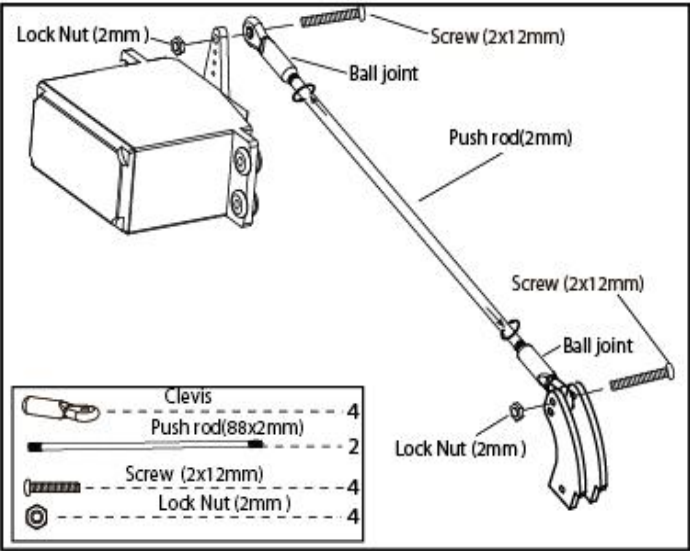


15. Assemble the rudder to the vertical fin and make sure it can move freely.





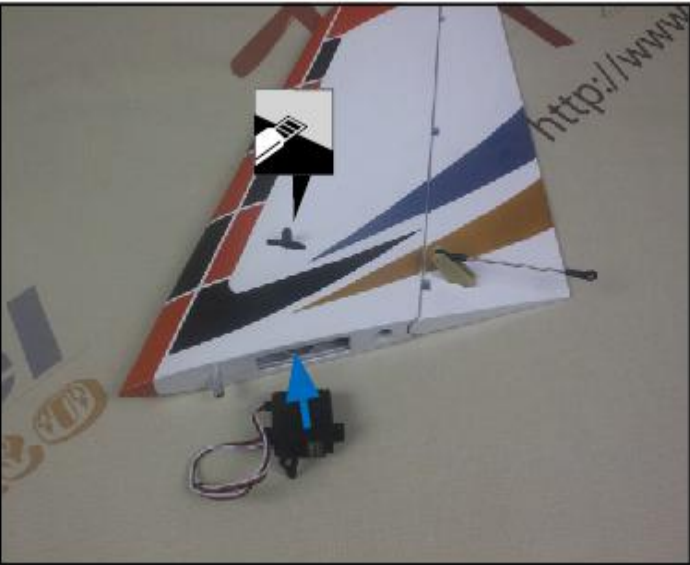
16.The sketch map of how the servo arms connect to the horns.



17.Assemble the horns to the slots in the rudder.



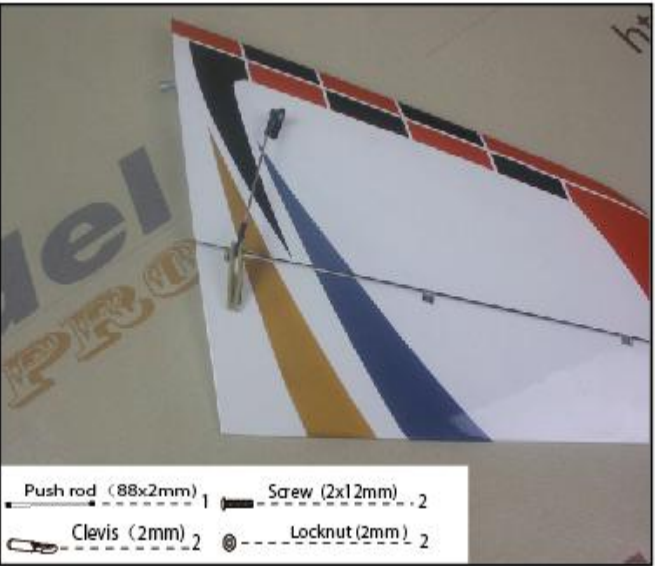
18.Measure the deepth to confirm what the servo position will be and open a small slot for the servo arm.













19.Assemble the servo to the vertical fin with screws.



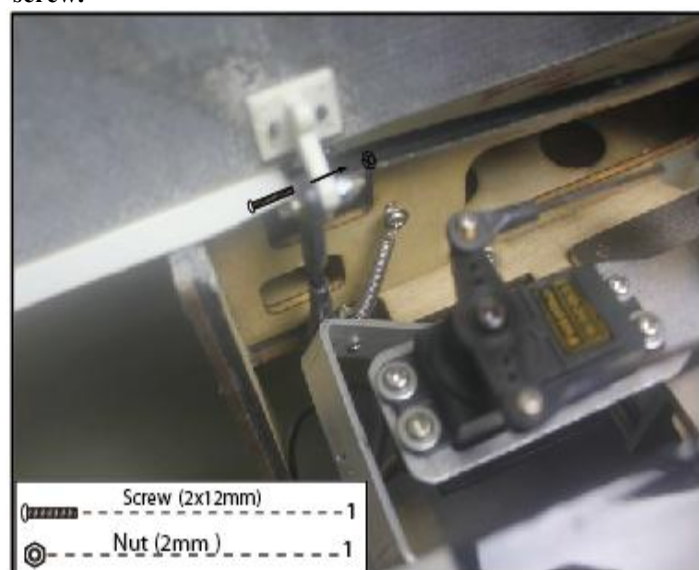
20.Connect the fiber horns to the servo arms with the linkage and locked each side with screws.



Accessory list for the coming installation steps.

|   |                    |    |
|---|--------------------|----|
|  | Screw (2x12mm)     | 3  |
|  | Nut (2mm)          | 3  |
|  | Clevis (2mm)       | 2  |
|  | Rod (2X100mm)      | 2  |
|  | Retainer           | 2  |
|  | TP Screw (2.3x8mm) | 10 |
|  | Screw (4x25mm)     | 6  |
|  | TP Screw (3x14mm)  | 12 |
|  | Washer(4x8mm)      | 6  |
|  |                    | 1  |

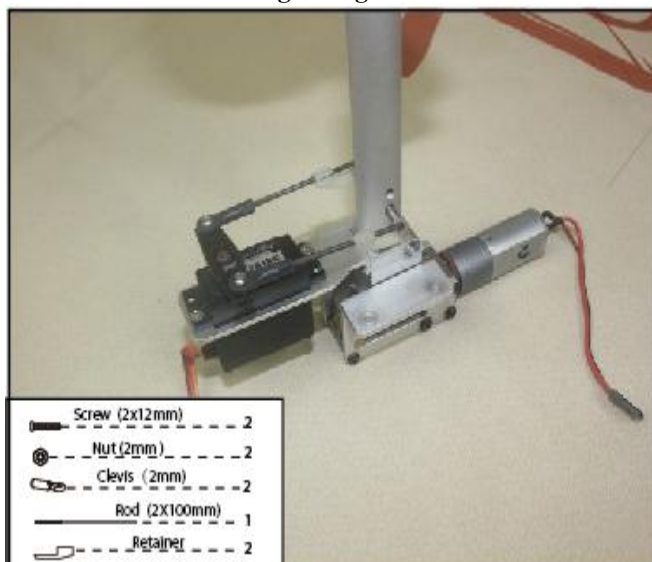
21. Fix the hatch hinge to the clevis on the Alu sash with screw.



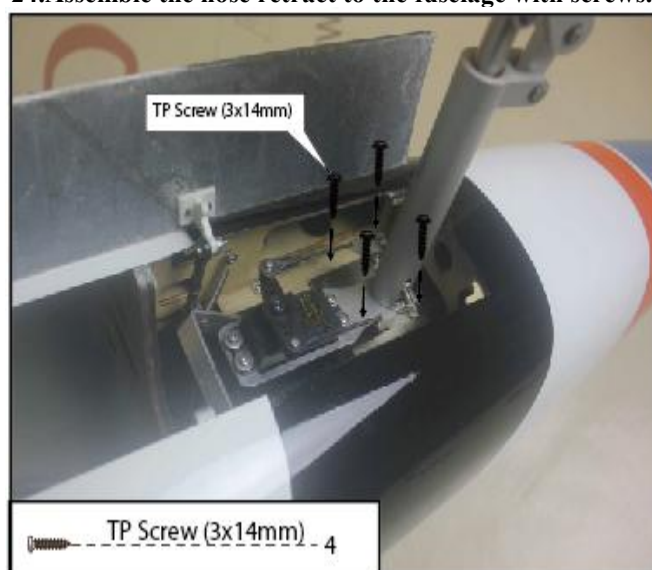
22. Assemble the servo to the nose retract.



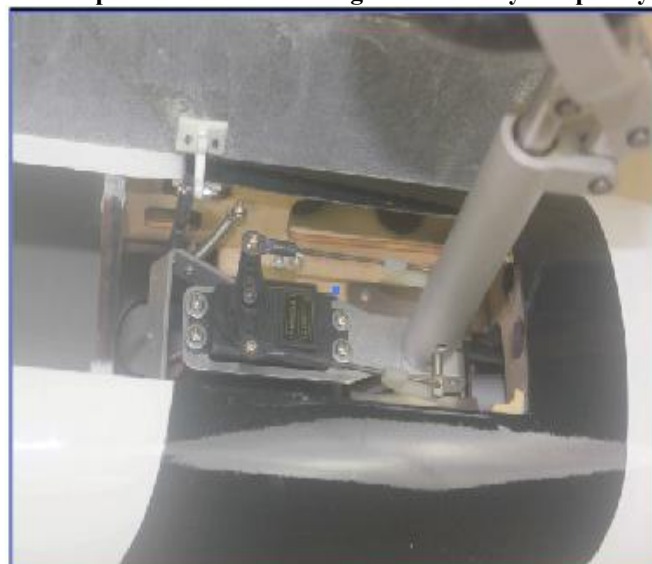
23. Assemble the steering linkages.



24. Assemble the nose retract to the fuselage with screws.



25. The picture when the nose gear assembly completely.





26. Ready for put the fuel tanks in the fuselage.



27. Put the fuel tanks in the fuselage.



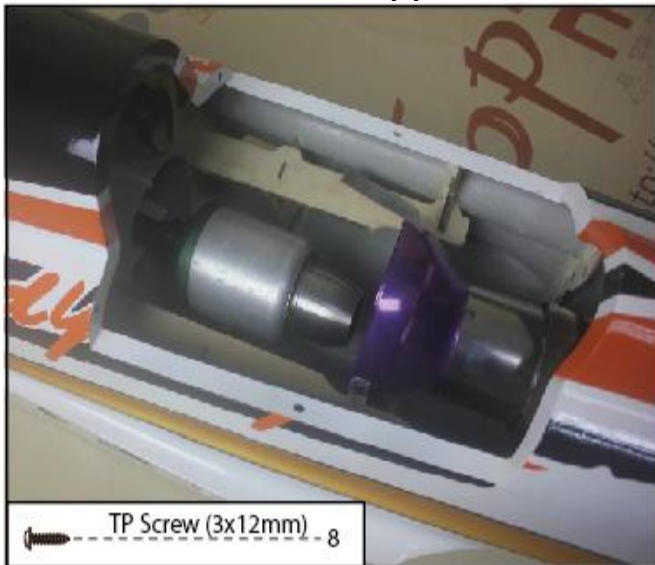
28. Put the tail pipe to the fuselage.



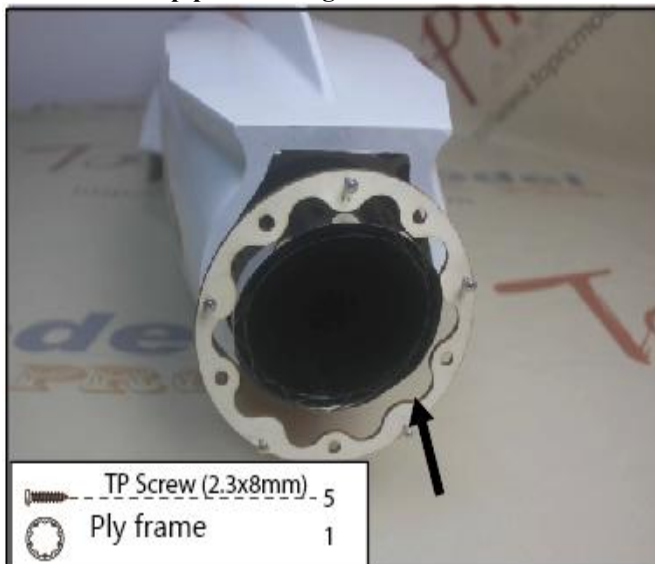
29. Fix the tail pipe to the fuselage with screws.



30. Assemble the Turbine and tail pipe.



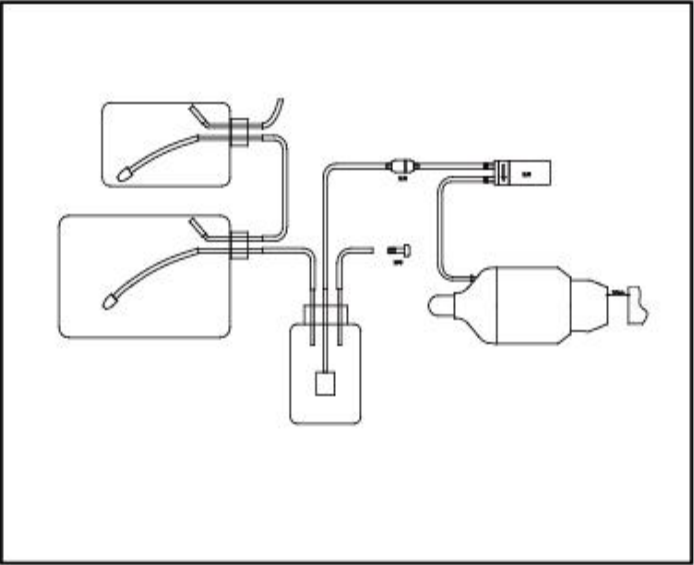
31. Fix the tail pipe to fuselage with screws.



32.Fix the two fuselage section together with screws.



33.The sketch map of the connection for the fuel tanks.



34.Fix the interior cockpit into the fuselage.



Accessory list for the coming installation steps.

|  |                      |   |
|--|----------------------|---|
|  | Alum Tube (30x895mm) | 1 |
|  | Alum Tube (14x575mm) | 2 |
|  | Alum Tube (14x248mm) | 2 |

35.Put the alu wing bolt into the fuselage.

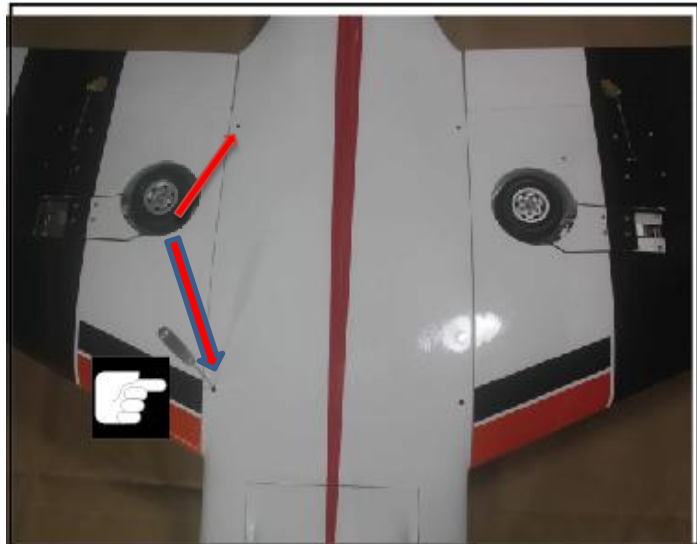


36.Assemble the wing to the fuselage through the wing bolt.





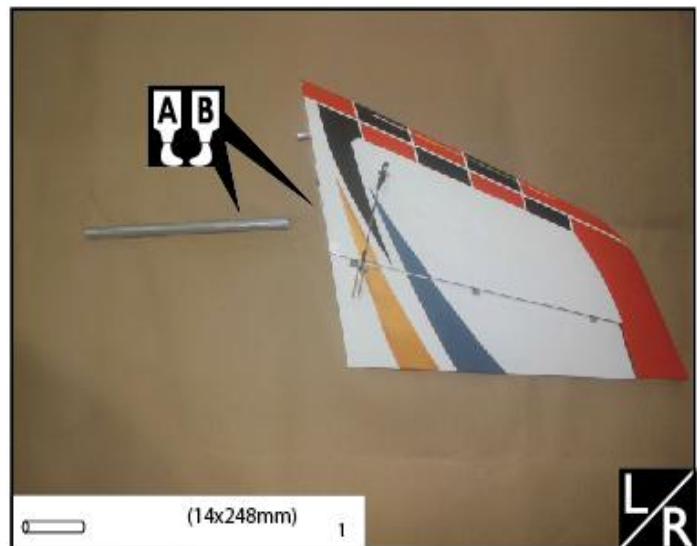
37. Fix the wing to fuselage with screws from the bottom of the wing.



38. Fix the wing with screws from the bottom of the wing.



39. Glue the fin bolt.



40. Put the fin bolt into the vertical fin.



41. Put the vertical fin to the fuselage.



42. Fix the vertical fin with screws.





43. Put the stab into the fuselage through stab tubes.

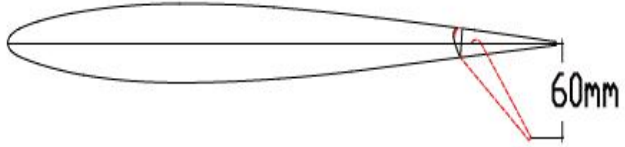

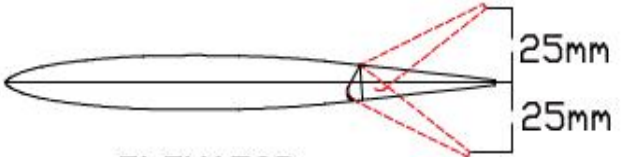
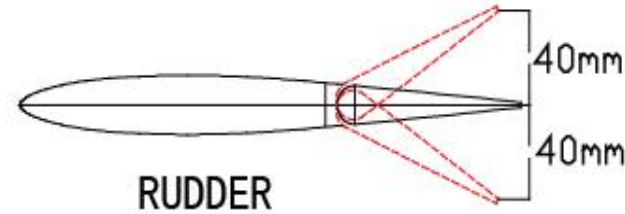
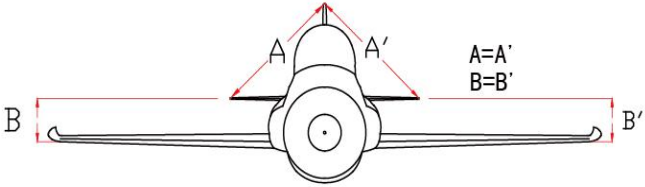
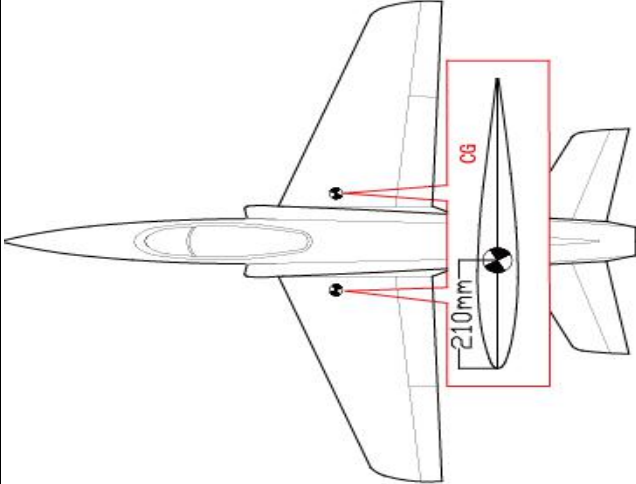


44. Fix the stab to fuselage with screws.



55. The photo when the model assemble completely.

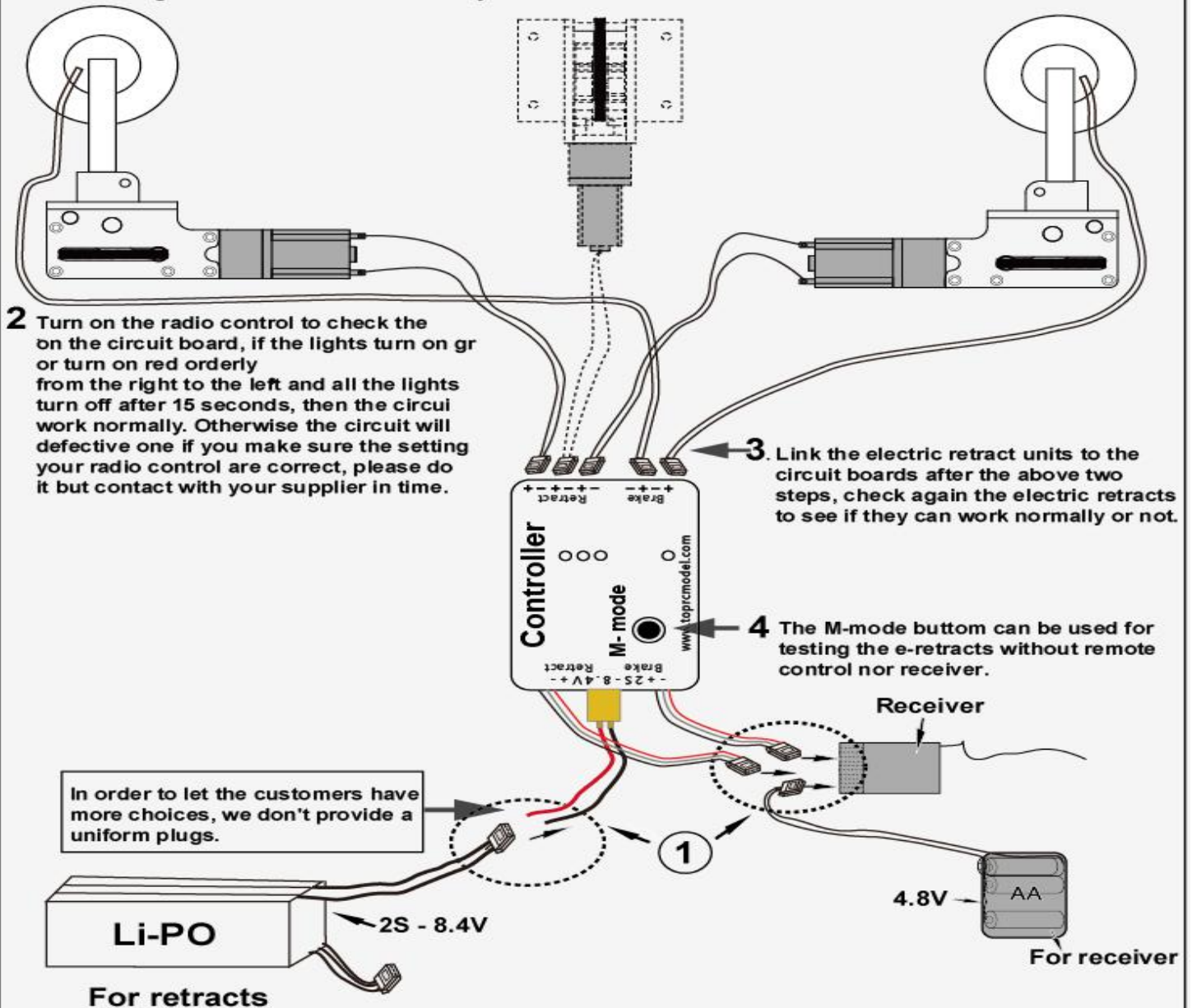


|  |  |   |
|--|--|---|
| <p>56. Adjust the travel of each control surface to the values in the diagrams. These values fit general flight capabilities. Readjust according to your needs and flight level.</p>   |  | <p>57. Adjust the travel of each control surface to the values in the diagrams. These values fit general flight capabilities. Readjust according to your needs and flight level.</p>  |
| <div data-bbox="76 230 703 696"> <p>FLAP</p>  <p>60mm</p> <p>AILERON</p>  <p>28mm</p> <p>28mm</p> </div> |  | <div data-bbox="890 253 1517 734">  <p>25mm</p> <p>25mm</p> <p>ELEVATOR</p>  <p>40mm</p> <p>40mm</p> <p>RUDDER</p> </div> |
| <p>58. Check all the data well. make sure all sections glue tightly. Otherwise if coming off during flights, you'll lose control of your airplane which leads to accidents!</p>  |  | <p>59. C.G: Never fly before checking the CG's required position. Never fly the model without well balancing.</p>   |
| <div data-bbox="52 1003 699 1189">  <p>A</p> <p>A'</p> <p>B</p> <p>B'</p> <p><math>A=A'</math></p> <p><math>B=B'</math></p> </div>   |  | <div data-bbox="879 887 1517 1368">  <p>CG</p> <p>210mm</p> </div>   |

## 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.



**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.**