

Before start ,please carefully read the explanations!

# P-47 Thunderbolt



## Specification:

**Wingspan: 96"(2438mm)**

**Length: 2069mm/79 in**

**Flying Weight: ~17kg**

**Wing area: 108.9 dm<sup>2</sup>**

**Engine: 80-100cc**

**C.G: ~159mm 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.

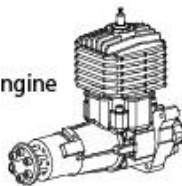


For handling the radio properly, refer to its instruction manual.

- 2** Engine and Muffler

Model Airplane Engine 60cc-80cc-100cc gas engine

Muffler



- 3** Propeller Spinner



scale spinner

Purchase a propeller that will match your engine.

24 x 12" / 25 x 10"



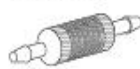
- 4** Sponge Sheet



Gasoline tube



Fuel Filter

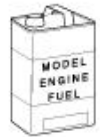


- 5** Required for engine starting:



**WARNING:** Normal gasoline cannot be used with glow engines.

Gasoline



Fuel Pump



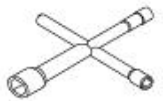
Booster Cord



4 D-size Batteries



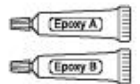
Plug Wrench



- 6** Glue Instant Glue

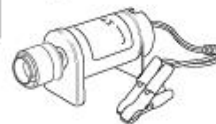


Epoxy Glue

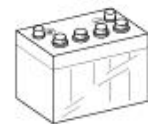


- 7** Other equipment for enhancing airplane operation & performance

Engine Starter



12V Battery (for starter)



- 9** Optional electric retract set



## TOOLS REQUIRED (Purchase separately!)

Sharp Hobby Knife



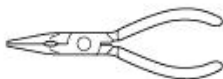
Phillips Screw Driver (l, m, s)



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.



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!



Do not overlook this Symbol!




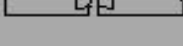
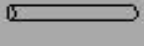
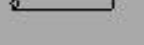
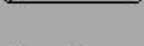








**Warning!**

# P47配件

	TP Screws (2x10mm)	20
	TP Screws (2.3x8mm)	20
	TP Screws (2.3x12mm)	10
	Round screws (2.6x12mm)	4
	Hexagon screws (3x10mm)	10
	Round screws (2x12mm)	20
	Blind nut (2mm)	20
	Washes (2x5mm)	20
	Washes (3x8mm)	12
	Copper joint	6
	Copper tube (3x8mm)	6
	Push rod (2x130mm)	1
	Push rod (2x86mm)	2
	Push rod (2x76mm)	2
	Push rod (2x80mm)	2
	Push rod (2x100mm)	2
	Steel wire (0.45x3000mm)	4
	Fiber horn (2mm)	2
	Fiber horn (2mm)	10
	Ball joint (2mm)	20
	Round hinge (5X68mm)	3
	Pinned hinge (20X37mm)	10
	PVC tube (3x300mm)	2

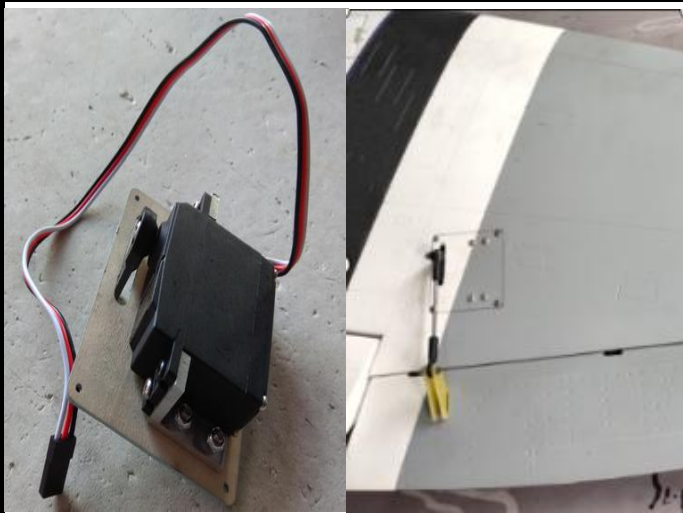
Servos accessories		
	Flat screws (3x10mm)	24
	Round screws (3x5mm)	24
	Bushes (3x6mm)	24
	"L" Style Alu bracket	12

	Servo trays	4
	Main wheel covers A	1
	Main wheel covers B	1
	Main wheel covers C	1
	Main wing tubes A (30X553mm)	2
	Main wing tubes B (16X458mm)	2
	Stab carbon fibre tube (16X438mm)	1
	Fuel tank (80CC)	1
	Flap fiber hinges	6

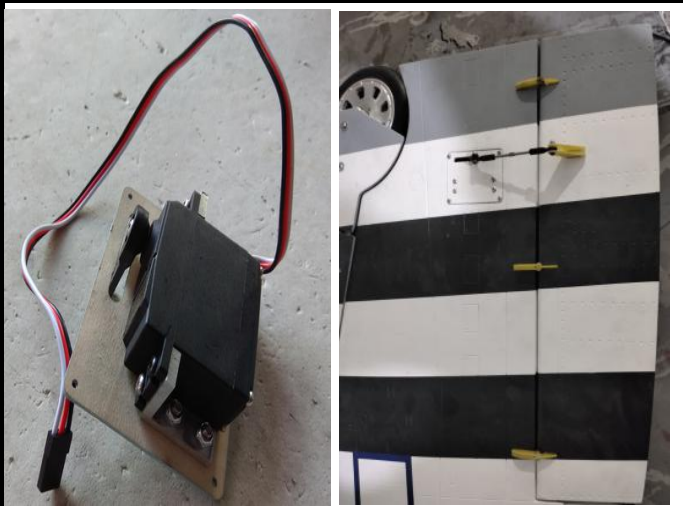
Cowling accessories		
	Flat screws (3x12mm)	6
	Round screws(3x10mm)	6
	Bushes (3x6mm)	6
	L bracket	6

Retract box		
	Tail retract pc	1
	Main retracts pair	2
	Wheel cover location ply (3mm)	4
	Wheel cover location ply (3mm & 2mm)	4
	Round screws (3x10mm)	6
	Hexagon screws (2x12mm)	2
	Nut (2mm)	2
	Push rod (2x58mm)	2
	Ball joint (2mm)	2
	Screws for main retracts (3x20mm)	8
	Bushes (3x6mm)	8
	Controller	1

1. Assemble the aileron. Prepare the servos of aileron, trim slots to appropriate position in outer wing and aileron, apply instand type AB glue to the slots in the aileron and pivot & round hinges. Connect the servo to the horn with screws.



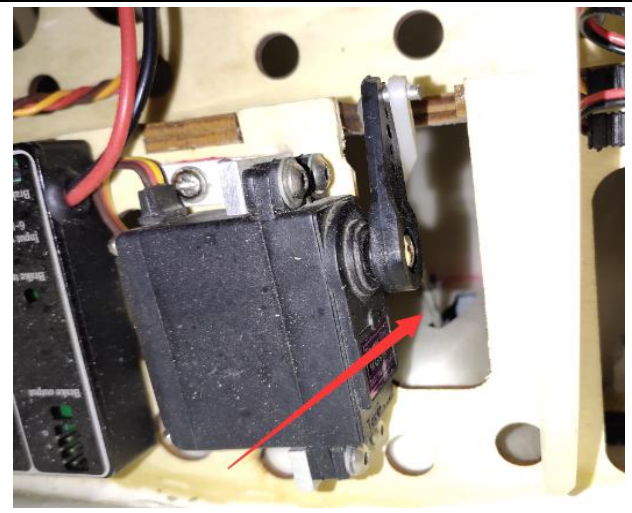
2. Assemble the flap on the outer wing. Prepare the servos for flaps, trim slots to appropriate position in the wing and flaps, apply instand type AB glue to the slots in the flaps and horns. Connect the servo to the horn with screws.



3. Trim slot in appropriate position in wheel house and connect the gear door to the gear door servo, see the pictures .



4. Trim slot in appropriate position in wheel house and connect the gear door to the gear door servo, see the pictures .



5. Assemble the main retracts and gear cover parts to the retract mount with screws .



6. Apply instand type AB glue to the slots in the stab and put the horns in it. Assemble the servo to the stabilizer through the slots on the stab root.



7. Apply AB glue to the slots in the rudder, assemble the rudder to the vertical fin of the plane, connect the rudder and servo by linkage .



8. Glue one side of the stab tube to one stabilizer, assemble it to the fuselage through the stab tube, assemble another stabilizer to the fuselage and lock the stabilizer with screw



9. Assemble the wings to the fuselage and lock the wings by the clamps which in the fuselage, see picture below .



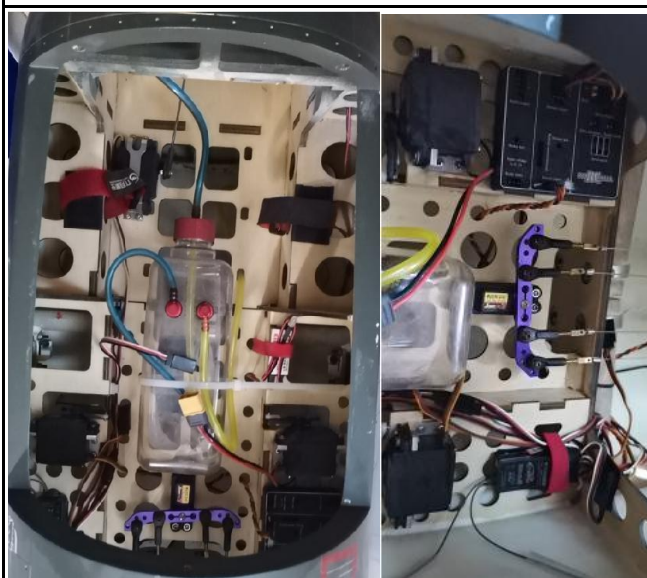
10. Assemble the tail landing gear to the tail fuselage .



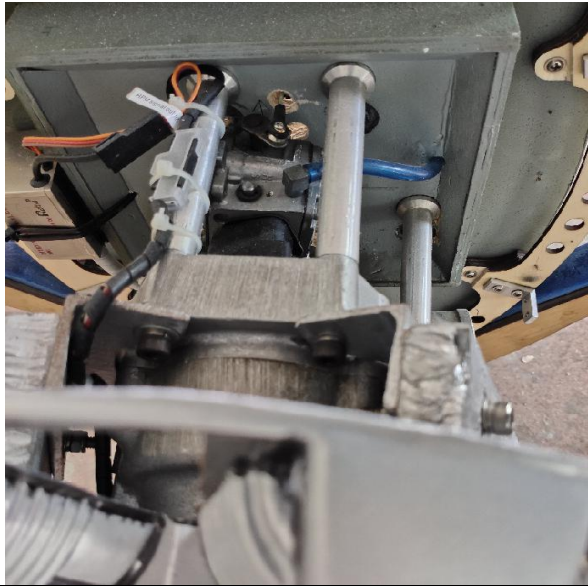
11. The tail retract installed to the fuselage and the wires inside the fuselage.



12. Install the fuel tank, servos and controller in the fuselage and make sure they are tightly fixed .



13. Assemble the cowl frame ply to the fuselage, drill holes to the firewall and install the engine .



14. Picture of the engine install completely .



15. Assemble the cowling to the fuselage, and instll the propeller and spinner to the engine .



16. Assemble the canopy with screws .

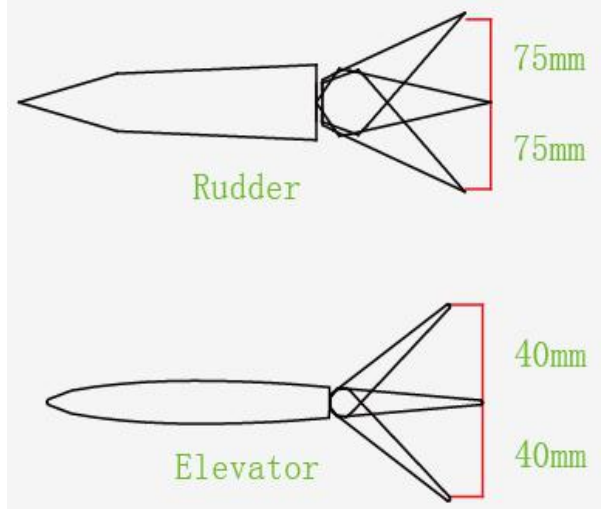
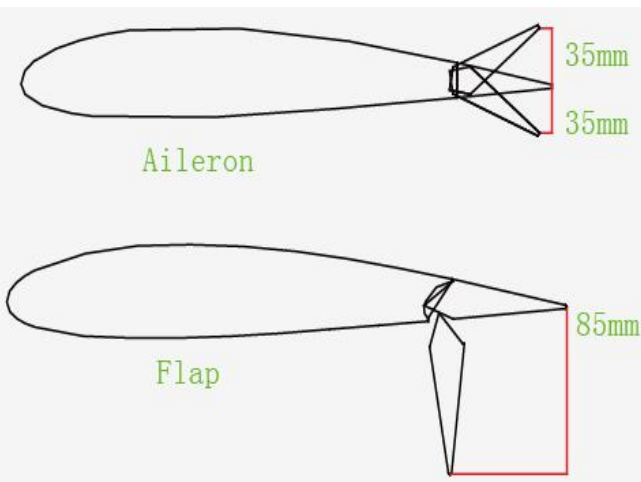


17. The photo when the plane assembly ready .

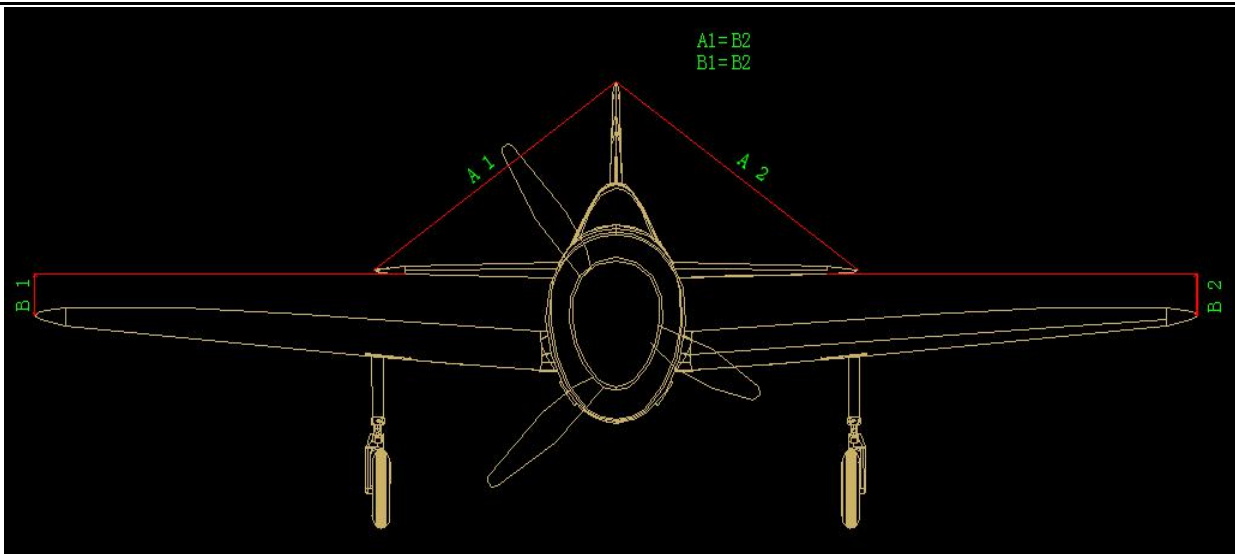


18. Adjust the travel of each control surface to the values in the diagrams. These values fit general flight capabilities. Readjust according to your needs and flight level.

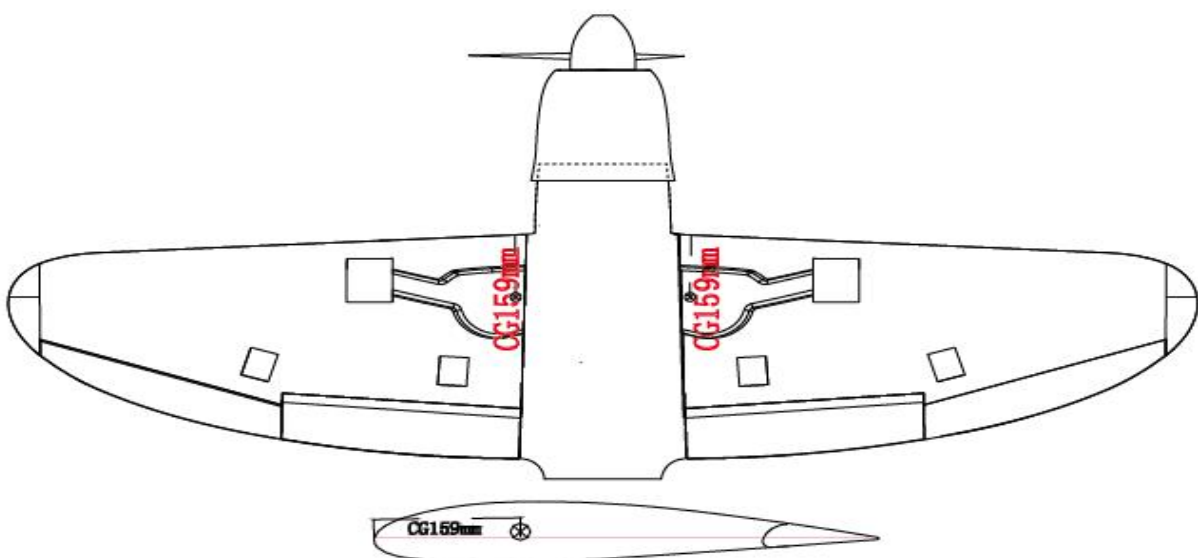
19. Adjust the travel of each control surface to the values in the diagrams. These values fit general flight capabilities. Readjust according to your needs and flight level.



20. 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!



21. 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 convert 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 .
4. Working voltage: 6-8.4V (12V power supply for large landing gear, please contact the owner)
5. The blocking current is adjustable. It is suitable for all electric retraction racks under 35KG on the market.
6. The power supply voltage of the steering gear on the hatch cover can be set
7. The forward and backward direction and stroke of the door servo can be set separately
8. 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)