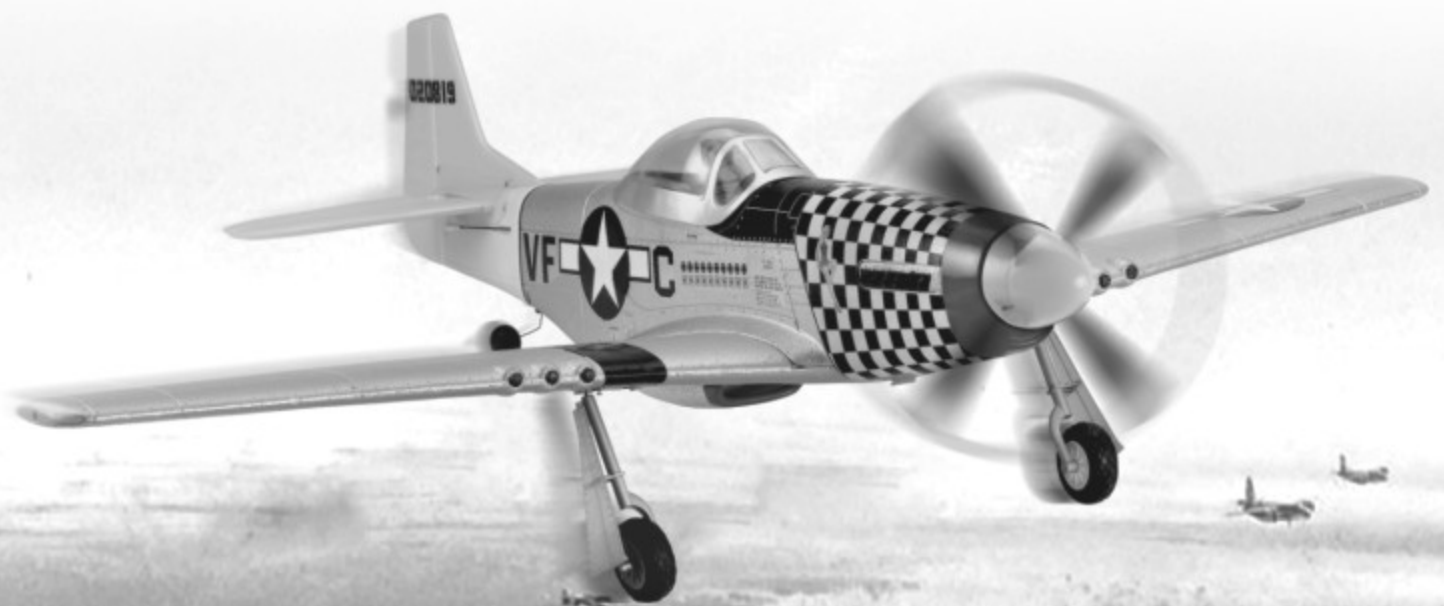


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# ***P-51D Mustang***

**Remote Control Model Airplane**



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## Product introduction

Thanks for purchasing P-51D R/C model plane, please read this instruction carefully in order for safe use.

## Main specification

### Standard

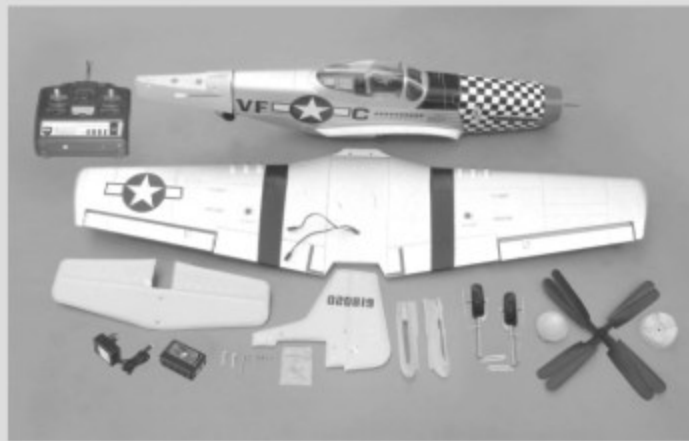
Wing span:960mm  
 Length:780mm  
 Flying weight:650g  
 Motor:390  
 With gear box: 1:3.1  
 Battery:9.6V 1000MAH  
 Radio:4ch  
 Mode: FM

### Advanced

Wing span:960mm  
 Length:780mm  
 Flying weight:550g  
 Motor: Brushless motor  
 Battery:11.1V 1300MAH  
 Radio:4ch  
 Mode: FM

## Parts of Product

Fuselage, main wing set, rudder, elevator, main landinggear, transmitter, battery, charger, screw, Propeller, canopy, instruction.



## Safety warning

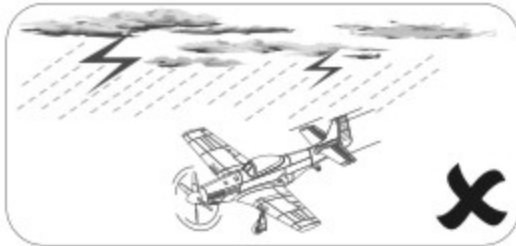
- 1、 Do not fly in rain, strong wind and thunder;
- 2、 Do not fly near airport, railway, road and electrical wire;
- 3、 Do not fly near the crowd;
- 4、 Do not fly near other with the same frequency;
- 5、 Check model and radio control set work well before fly ;
- 6、 Please use replacement from Art-Tech.



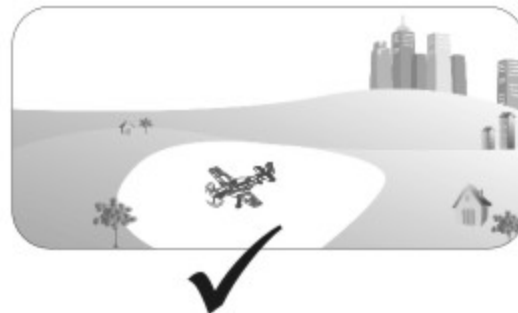
## Safety precautions!

Please read this section until you fully understand!

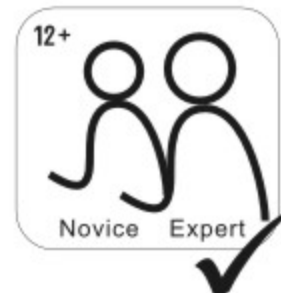
1) Do not fly in Strong wind or bad weather.



2) Never fly the model in crowded areas, where there are lots of people, automobiles on the road and power lines over head. Also not to fly around the airport. Please make yourself enough room for the flying and operating, as the plane can travel at high rates of speed. Remember you are responsible for the safety of others.



3) Children under the age of 12, should have an adult guide. Not recommend for the children under the age of 14.



4) Never leave the charger in wet conditions.



5) The Mustang is made from PA and polythene which are tinder. When it meets the heat, transfiguration can easily happen, so you must keep your Mustang away from heat.



6) Do not attempt to catch the Mustang while it is flying.



7) Never leave this system unattended around children with battery in the unit, as injury can be caused due to children turning on the transmitter or the plane.

8) During the preparation for the flight, please remember to turn on the transmitter before connecting the battery pack.



9) Close the throttle on the transmitter before connecting battery otherwise the motor may operate. The turning propeller may cause injury.



## Statement

1. This is not a toy. It is for experienced modellers only. You are responsible for the safe operation of this model and any damage or harm it may cause;
2. Please adjust this plane according to instruction and make sure finger and other parts out of rotating parts of plane, or it may cause damage to the plane or injury.
3. Users should follow all instructions properly and assemble the model correctly. It is your responsibility to insure the battery is charged correctly, following these instructions.

## Charge Mode and Warning

### ★ Ni-mh battery Charger

Charge the power battery with outfit charger in 3 to 4 hours. Battery will be a little warm after charging. In order to avoid battery damage or fire insurance, do not charge the battery overtime. Battery in charging should be put away from tinder and under supervision to make sure safety.



### ★ Li-poly battery charger with LED indicator

The design of EX-RCLP208 Li-battery balance charger conforms to the latest technology, enabling the stable and balance charge to battery. This product has various advantages of easy-to-use, safety and reliability etc, ensuring to avoid the reduction of battery performance caused by unbalanced discharge and the risks resulted from unbalanced charge.

Please read this instruction carefully prior to use this product, ensuring to fully understand the performance of EX-RCLP208 and product safety.



### Technical Data:

1. Input: DC 11v-14v, 1A, output: DC 12.6V, 800mA ( $\pm 10\%$ ).
2. Available to balanced or unbalanced charge 2 or 3 battery blocks.
3. Dimension size: 73 × 50 × 25mm.
4. The typical value of voltage difference among 3 full-charged battery blocks is lower than 40mV.
5. The cut-off voltage of charger ranges from 4.19V-4.21V.

### Danger:

1. Do not charge 2 or 3 batteries at the same time.
2. Do not charge other batteries than Li-battery. Or else, It will cause battery abnormal (over-heat or fire). The battery type must be validated prior to charging.
3. In case of EX-RCLP208 in use, keep the charger away from inflammable thing. The electric spark caused by connecting or disconnecting battery is highly dangerous to cause explosion.

### Indication:

1. Connect the charger with regulated power supply, the red LED of power supply is on.
2. Connect the battery to be charged, the green LED is on, and then start the constant-current-restricted-voltage charging mode with 800mA.
3. The green LED will be off after charge fully completed.

## Safety Instruction of Li-Po Battery

01. Do not disassemble or reconstruct the battery.
02. Do not short-circuit the battery.
03. Do not use or leave the battery nearby the fire, stove or heated place.
04. Do not immerse the battery in water or sea water, do not get it wet.
05. Do not charge the battery nearby the fire or under the blazing sunlight.
06. Do not drive a nail into the battery, strike it by hammer or tread on it.
07. Do not impact or throw the battery.
08. Do not use the battery with conspicuous damage or deformation.
09. Do not make the direct soldering on the battery.
10. Do not reverse charge or over discharge the battery.
11. Do not reverse charge or reverse connect.
12. Do not connect the battery to the ordinary charger socket or car cigarette jack.
13. Do not use the battery for unspecified equipment.
14. Do not touch the leaking battery directly, please wash your skin or clothes with water if they are bedewed by liquid leaking from the battery.
15. Do not mix the Li-Poly battery with other un-chargeable battery .
16. Do not continue charging the battery over the prescribed time.
17. Do not put the battery into the microwave oven or high-pressure container.
18. Do not use the abnormal battery.
19. Do not use or keep the battery under the sunlight.
20. Do not use the battery nearby the place where generates static electricity (over 64V).
21. Do not charge the battery when the environmental temperature is under 0°C or over 45°C.
22. If you find the battery leaking, smelling or abnormal, stop using it .
23. Keep the battery away from the children.
24. Use the specified charger and observe charging requirement (under 1A).
25. When using by minors, parents should show them the correct way to charge.

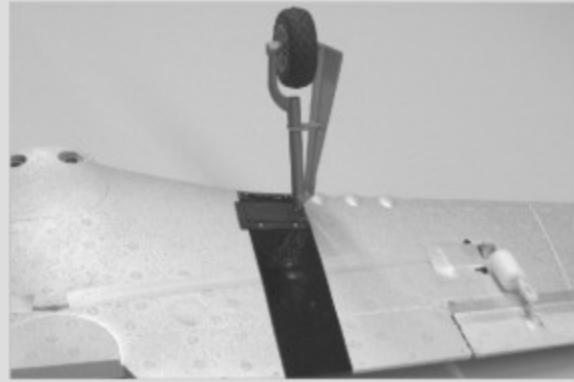
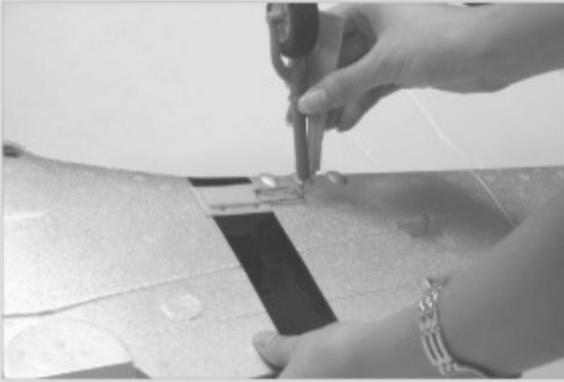
### CAUTION

1. Never charge the battery at more than 1 amp.
2. Never discharge the battery at more than 5c and never take the voltage lower than 9v as this will damage the battery.
3. For full flight time to be achieved please cycle the cells through three flights.
4. Never charge the battery on a carpet floor, this can cause a fire!



## Assembling step for P-51D

1. Install the landing gear to the main wing's groove in right direction.



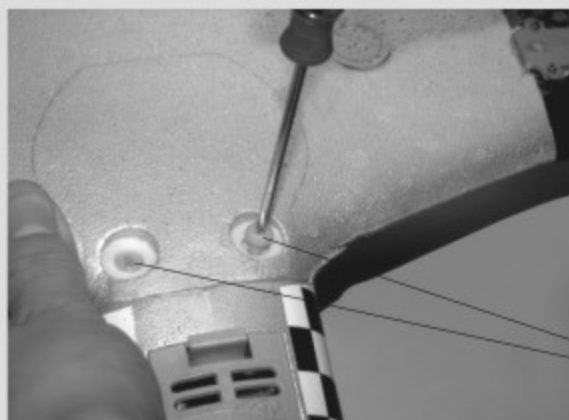
2. Connect the servo wire from main wing to the first channel of receiver.



3. Fix the main wing set to the fuselage properly.



4. penetrate the screw from main wing into fuselage and fix it.



∅ 4X30MM  
 .....

5. Place the horizontal stab into place and attach with screws.

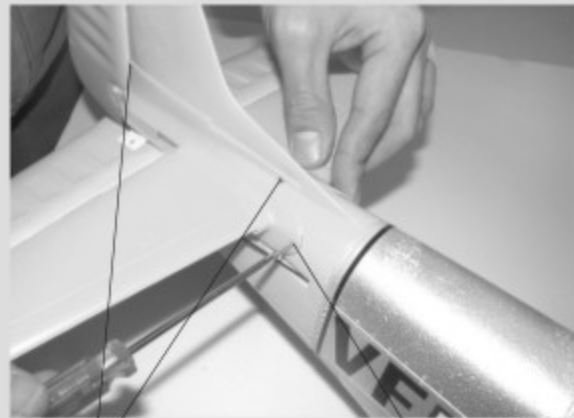


∅ 2X12MM  
 .....

6. Install the vertical stab in place.



7. Install and attach the tail fairings with screws.




Ø 1.7X6MM  
 ..... 2

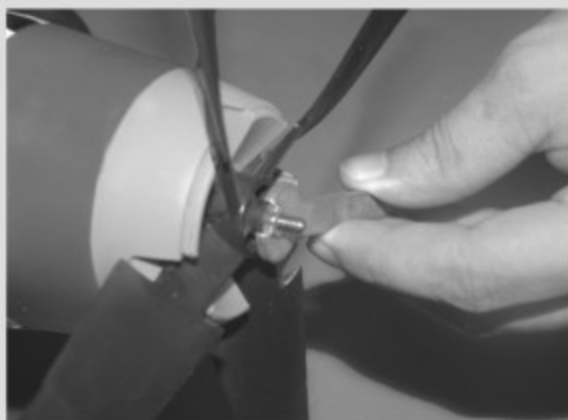
Ø 1.7X33MM  
 ..... 1

8. connect the clevis to the rudder and elevator.



∅ 1.7X16MM  
 .....

9. Place spinner hub on shaft then the propeller and then the nut. Then snap spinner in place. Make sure the transmitter batteries are charged, the transmitter is off and the throttle is at idle. Now turn on transmitter.

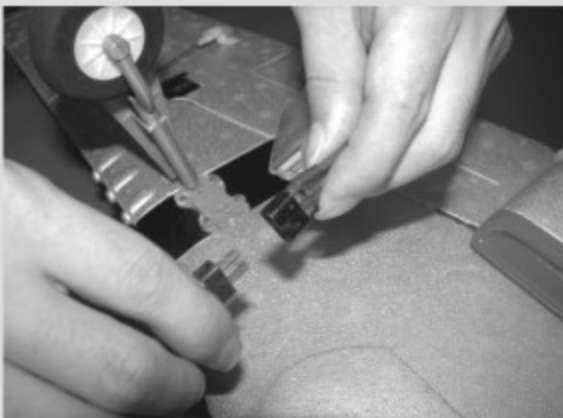


10、 Plug well charged battery to the transmitter and close the battery bay.

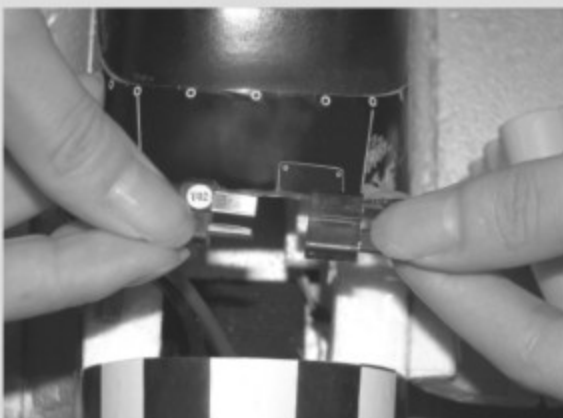


11、 Please put the socket into the fuselage body, then cover the battery.

1)、 For Li-poly battery



2)、 For Ni-MH battery



12. Before using, please test function of all joysticks. While testing motor, make sure the propeller is outofreach of any person or item and thenfix the plane.



13. Function of Radio control set.

MODE 1 (Throttle on right Stick)



MODE 2 (Throttle on left Stick)



## **Speed controller operation**

- ① Turn on the transmitter first, then connect battery.
- ② Keep the throttle stick at the lowest level for at least one second, then you are able to open the throttle and the motor will respond. This is a safety feature. If the motor does not work, please reset the controller by disconnecting the battery and repeating steps ① and ②.
- ③ When the battery voltage is lower than safety voltage, the speed controller can auto-cut the power to the motor but still keep supplying power for receiver & servo.

**Spare parts list**



No:P51010  
Main wing set



No:P51011  
Tail wing set



No:P51012  
fuselage



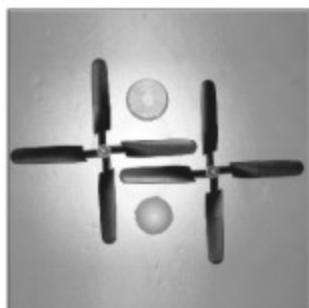
No:P51013  
Small plastic set



No:P51014  
Main landing gear set



No:P51015  
Control horn



No:P51016  
Propeller



No:P51017  
Motor with gear box



No:301908  
Balanced charger



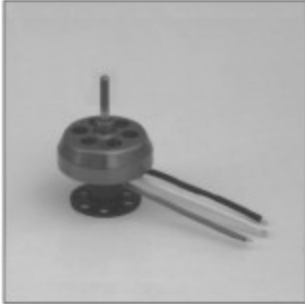
No:302304  
Li-poly battery



No:301501  
Ni-MH battery



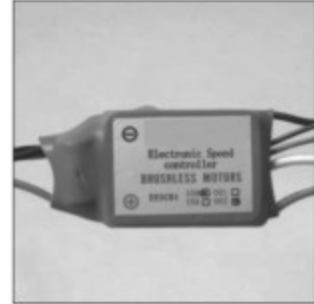
**Spare parts list**



No:301302B  
Brushless motor



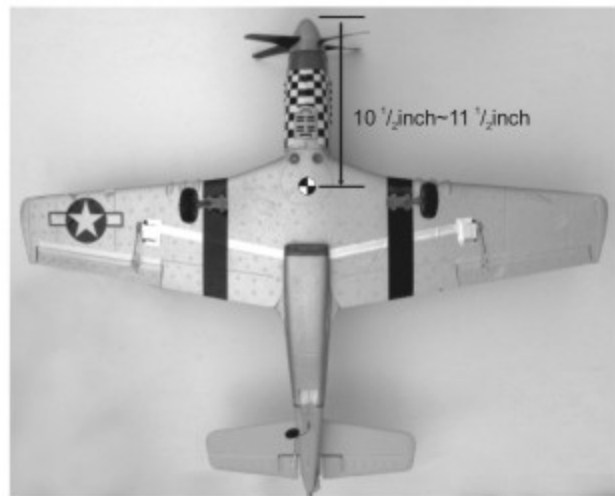
No:301450  
Speed Controller



No:302402  
Brushless ESC

### Center of Gravity Check

Please check the CG before heading to the flying field. The center of gravity for your P-51D Mustang should fall within the range as indicated by the arrows. For your initial flights, we suggest that you balance the model toward the front of the wing. After you become more familiar with the airplane, you can move the CG more aft. However, under no circumstances should the CG fall behind (toward the rudder) the rear mark. If necessary, adjust the CG by moving your receiver or adding weight to the nose or tail of the airplane.



### Trouble shooting

Phenomenon	Problem	How to solve
Motor does not run	<ol style="list-style-type: none"> <li>1. Battery in plane is not fully charged.</li> <li>2. Did not push the start switch on the fuselage.</li> <li>3. The battery in the transmitter is not full.</li> <li>4. The circuit in the model has been damaged due to crash.</li> </ol>	<ol style="list-style-type: none"> <li>1. Charge the battery.</li> <li>2. Push the start switch on the fuselage.</li> <li>3. Install new dry cells.</li> <li>4. Contact the distributor</li> </ol>
Cannot fly straight	<ol style="list-style-type: none"> <li>1. The rudder is not centred.</li> <li>2. The main wing has not been installed on the fuselage center.</li> </ol>	<ol style="list-style-type: none"> <li>1. Adjust the rudder trim on the transmitter.</li> <li>2. Reinstall the main wing.</li> </ol>
Cannot climb	<ol style="list-style-type: none"> <li>1. The battery is not fully charged.</li> <li>2. The elevator is angled downward.</li> </ol>	<ol style="list-style-type: none"> <li>1. Charge the battery.</li> <li>2. Adjust the elevator trim on the transmitter.</li> </ol>
Control distance is limited	<ol style="list-style-type: none"> <li>1. The batteries in the transmitter are running flat.</li> <li>2. The antenna of transmitter has not been completely extended.</li> </ol>	<ol style="list-style-type: none"> <li>1. Install new dry cells.</li> <li>2. Completely extend the antenna of the transmitter.</li> </ol>

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2009.10

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