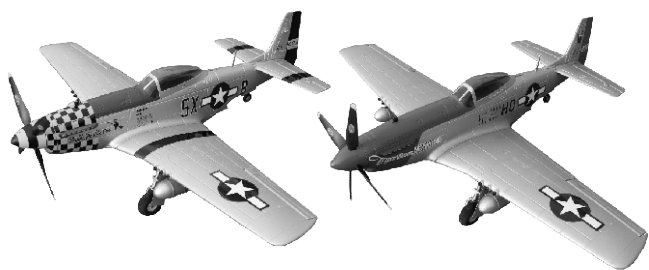
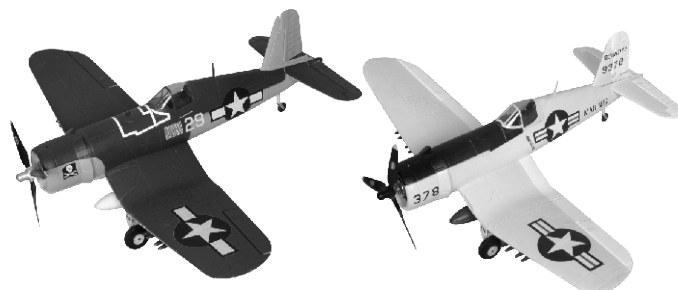


# 750MM SERIES AIRPLANES

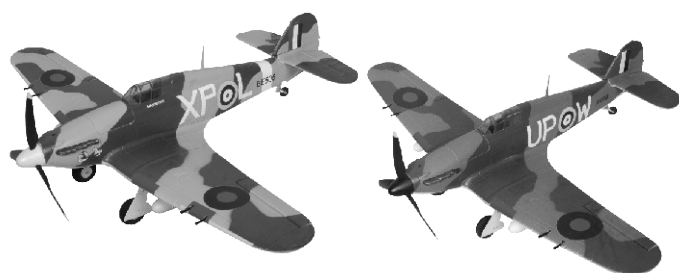
## Assembly Manual



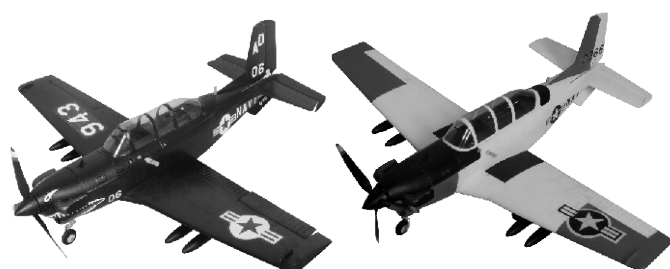
**P-51D MUSTANG**



**F4U CORSAIR**



**HURRICANE MK II**



**T-34**

### Warranty

This plane is guaranteed to be free from defects in material and workmanship at the date of purchase. It does not cover any damage caused by use or modification. The warranty does not extend beyond the product itself and is limited only to the original cost. By the act of controlling this product, the user accepts all resulting in liability for damage caused by the final product. If the buyer is not prepared to accept this liability, it can be returned new and unused to the place of purchase for a refund.

### Notice: Adult Super Vision Required

This is not a toy. Assembly and flying of this product requires adult super vision. Read through this book completely and become familiar with the assembly and flight of this airplane. Inspect all parts for completeness and damage. Please contact authorized distributors for service if you encounter any problems.

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## Brief introduction

Thank you for purchasing the remote control model airplanes from Top RC, and we hope this plane will bring endless joy to you after you choose it.

- ★ It can finish the inverted flight, inside loops, outside loops, axial rolls and other aerobatic actions fluently. Stable flight and easy to control, it also can climb with wide-angle continuously;
- ★ EPO foam material with high crash-resistance advantage. Scale appearance and vivid flight gesture;
- ★ With the scale auxiliary oil tank, it makes the airplanes more scale.
- ★ With the detachable horizontal wing and vertical wing, which makes it easy to carry and maintain.
- ★ With the building block designed power system and detachable propeller, it makes the airplane easy to assemble and convenient to maintain.
- ★ Optimized propeller design, it makes the propeller more beautiful and high efficiency.

## Product constitution

### RTF version

Fuselage, Main Wings, Horizontal Wing, Vertical Wing, Main Landing Gear, Propellor, Auxiliary Oil Tank, Battery, Charger, Radio, Accessory Bag.



P-51D MUSTANG



F4U CORSAIR



HURRICANE MK II



T-34

### PNP version

Kits without radio, charger and battery

### KIT version

Without any electronic parts

## Main specifications

	P-51D MUSTANG	F4U CORSAIR	HURRICANEMKII	T-34
★Wingspan	750mm	750mm	750mm	750mm
★Length	648mm	610mm	622mm	642mm
★Weight	425g	420g	422g	430g
★Thrust	≥450g	≥450g	≥450g	≥450g
★Flying time	≥5min	≥5min	≥5min	≥5min

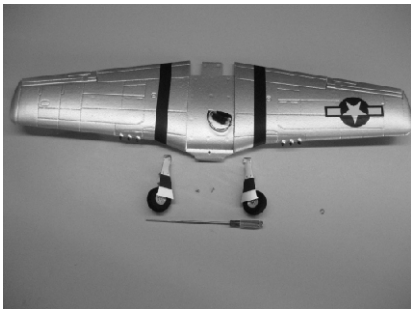
## Main configuration

	P-51D MUSTANG	F4U CORSAIR	HURRICANEMKII	T-34
★Radio system	4ch	4ch	4ch	4ch
★Motor	DST-1200	DST-1300	DST-1300	DST-1300
★Battery	1000mAh 7.4V 15C	1000mAh 7.4V 15C	1000mAh 7.4V 15C	1000mAh 7.4V 15C
★ESC	12A brushless	12A brushless	12A brushless	12A brushless
★Servo	9gX4	9gX4	9gX4	9gX4

## Assemble processes(P-51D MUSTANG)

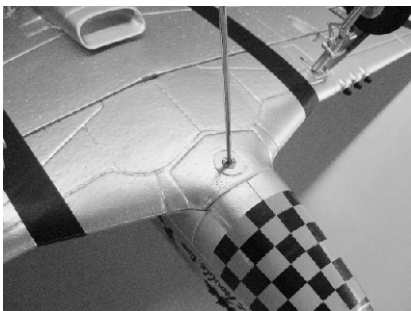
### 1. Assembly the landing gear.

Take of the wing & main landing gear and screws (PWA2\*8mm) from the package. Assemble the landing gear into the slot of the fuselage, please don't make it reverse. Then lock them by the screws (PWA2\*8mm).



### 2. Assembly of the main wings.

Take of the main wings & locking screws (KM4\*45MM) from the box. Please connect the aileron servo wire, then please assemble the main wings to the fuselage and lock it by screws (KM4\*45mm).



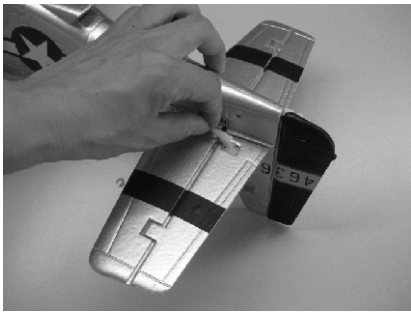
### 3. Assembly of the horizontal wings.

Take of the horizontal wing & vertical wing & fixed screw (PA2\*10MM) from the box. Please assemble the horizontal wing and vertical wing as the following pictures. , then assemble them to the right place of the fuselage by screws (PA2\*10MM) .At last, lock the main wings with fuselage.



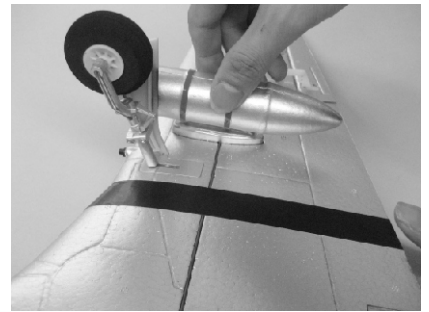
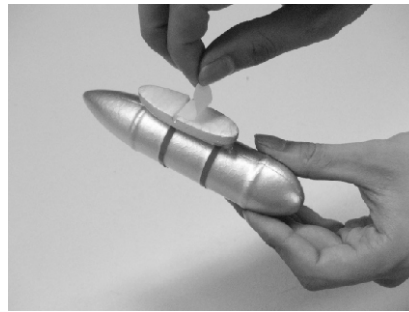
4. Assembly of the vertical wing and horizontal wing.

Connect the elevator servo arm with rudder servo arm, then locate the clevis at the outermost hole on servo arm.



5. Assembly of the auxiliary oil tank package.

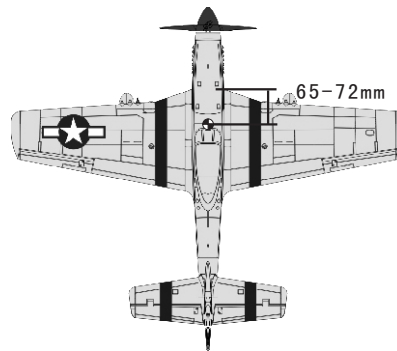
Take of the auxiliary oil tank package, tear off the stick surface, then stick it to the mounting groove of auxiliary oil tank on the surface of the wing.



6. Finished the assembly of "P-51D MUSTANG".

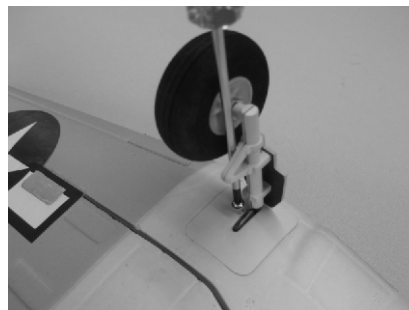
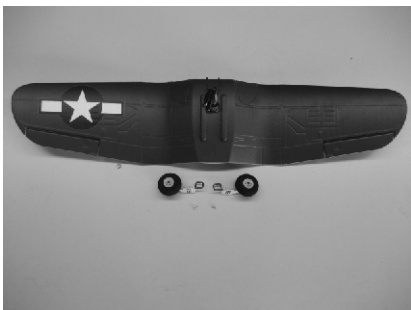


7. Check the center of gravity and make sure that the CG of the plane should be within the range as indicated by the arrows.



### Assemble processes(F4U CORSAIR)

1. Take of the main wings & main landing gear & PWA2\*8MM screws from the box. Please assemble the main landing gear into the slot under the main wings, and please do not make it reverse, then lock the main landing gear by PWA2\*8MM screw.



2. Take of the fuselage & KM4\*35MM screw from the box and assemble the fuselage to the right place on the main wings, please use the screw (KM4\*35MM) to lock it.

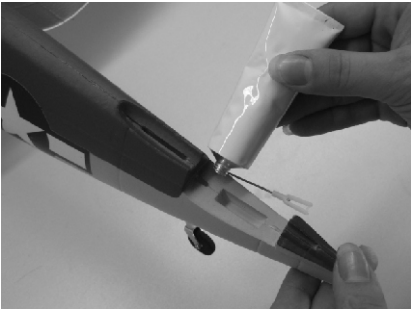


3. Assembly of the motor

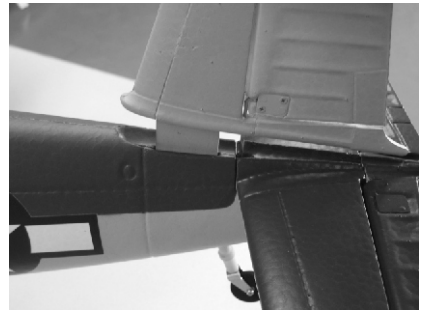
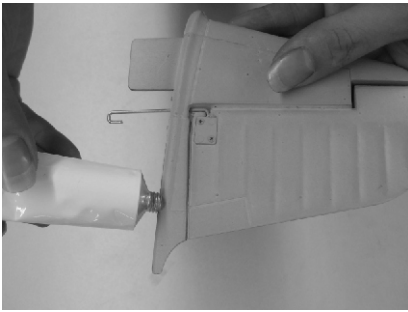
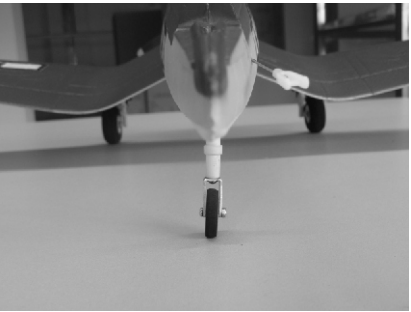
Please take of the motor & propeller from the box. Connect the motor wire to the ESC plug (black wire of the motor should be connected to black wire of the ESC, red wire of the motor should be connected to the red wire of ESC, yellow wire of the motor should be connected to the yellow wire of the ESC). Please assemble the motor to the motor bracket well, then use the screw to lock it well.



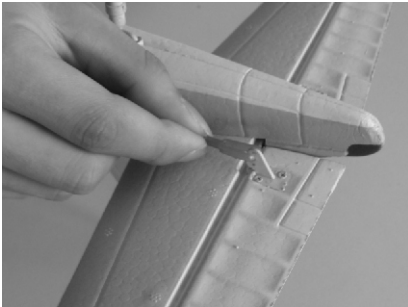
4. Add some glue to the slot of the fuselage and assemble the horizontal wing to the fuselage firmly.



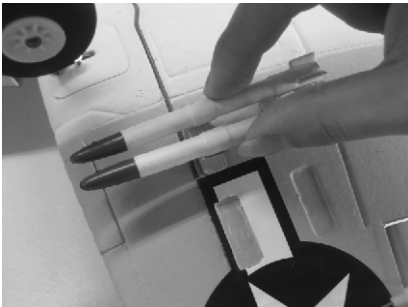
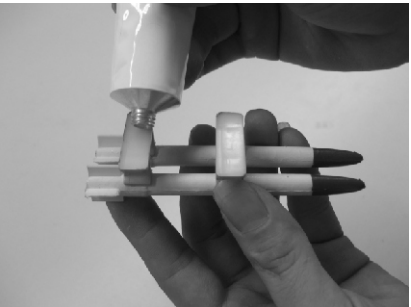
5. Please make sure that the tail wheel should be in the neutral position, and add some glue to the rudder surface. Make sure the U plug should be inserted into the U slot of the fuselage, then glue the vertical wing & horizontal wing & fuselage together.



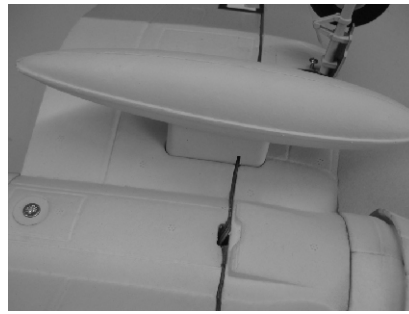
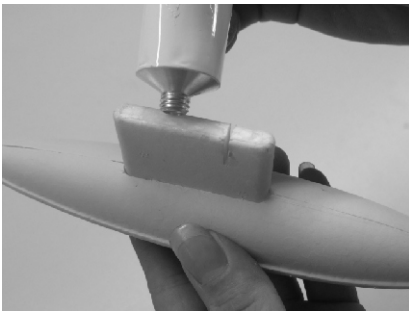
6. Glue the vertical wing and horizontal wing, and connect the elevator steel wire.



7. Take of the guided missile & bracket set from the box, and add some glue to the bottom of the bracket, please glue it to the slot of the main wings.



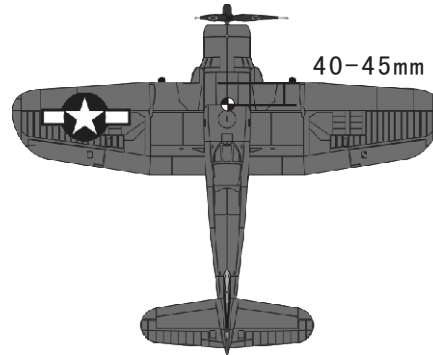
8. Take of the auxiliary oil tank and add some glue to its surface, please glue it to the slot of the back part of the main wings.



9. Finish the assembly of the "F4U CORSAIR".



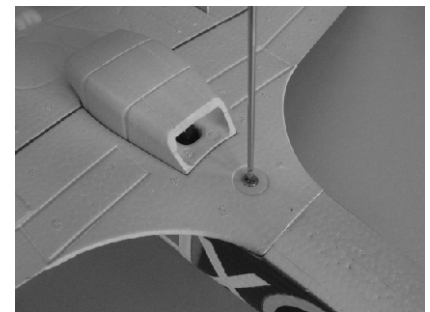
10. Check the center of gravity and make sure that the CG of the plane should be within the range as indicated by the arrows.



### Assemble processes(HURRICANE MK II)

1. Assembly the landing gear.

Take of the wing & main landing gear and screws (PWA2\*8mm) from the package. Assemble the landing gear into the slot of the fuselage, please don't make it reverse. Then lock them by the screws (PWA2\*8mm).

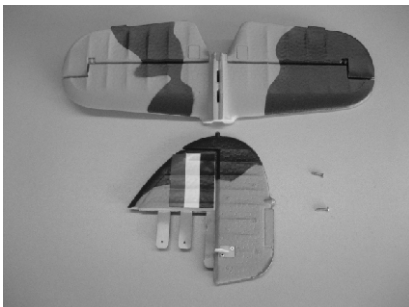


2. Assembly of the main wings.

Take of the main wings & locking screws (KM4\*45MM) from the box. Please connect the aileron servo wire, then please assemble the main wings to the fuselage and lock it by screws (KM4\*45mm).

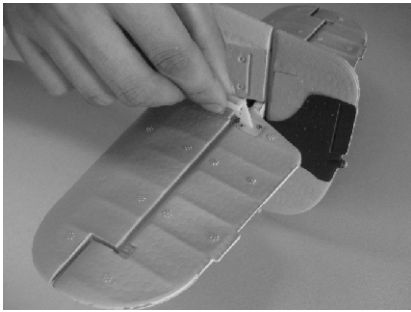
3. Assembly of the horizontal wings.

Take of the horizontal wing & vertical wing & screwdriver & fixed screw (PA2\*10MM) from the box. Please assemble the horizontal wing and vertical wing as the following pictures. Then assemble them to the right place of the fuselage by screws (PA2\*10MM). At last, lock the main wings with fuselage.



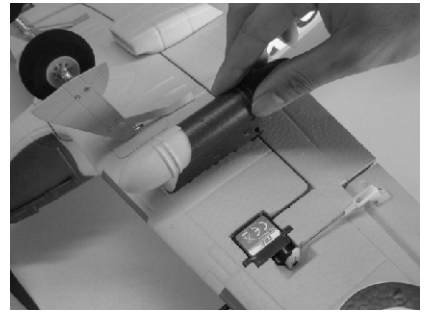
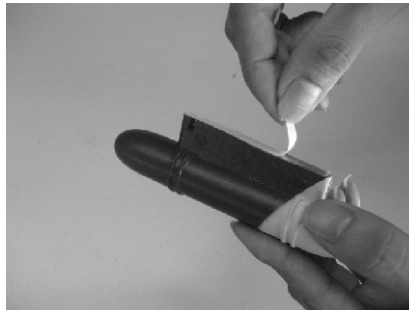
**4. Assembly of the vertical wing and horizontal wing.**

Connect the elevator servo arm with rudder servo arm, then locate the clevis at the outermost hole on servo arm.



**5. Assembly of the auxiliary oil tank package.**

Take of the auxiliary oil tank package, tear off the stick surface, then stick it to the mounting groove of auxiliary oil tank on the surface of wing.



**6. Assembly the antenna**

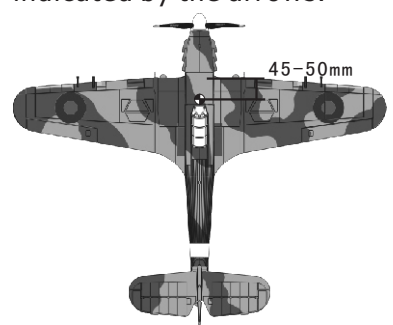
Take of the antenna, then set it to the mounting groove at the back of fuselage.



**7. Finished the assembly of "Hurricane MKII".**



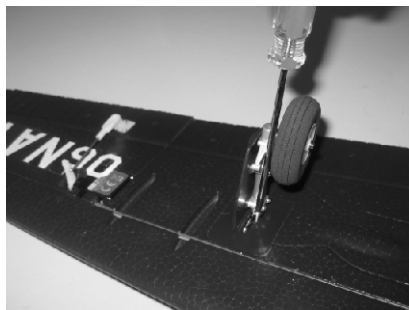
**8. Check the center of gravity and make sure that the CG of the plane should be within the range as indicated by the arrows.**



**Assemble processes(T-34)**

**1. Assembly the landing gear.**

Take of the wing & main landing gear and screws (PWA2\*8mm) from the package. Assemble the landing gear into the slot of the fuselage, please don't make it reverse. Then lock them by the screws (PWA2\*8mm).



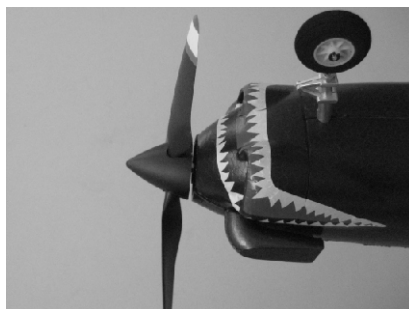
**2. Assembly of the main wings.**

Take of the main wings & locking screws (KM4\*45MM) from the box. Please connect the aileron servo wire, then please assemble the main wings to the fuselage and lock it by screws (KM4\*45mm).



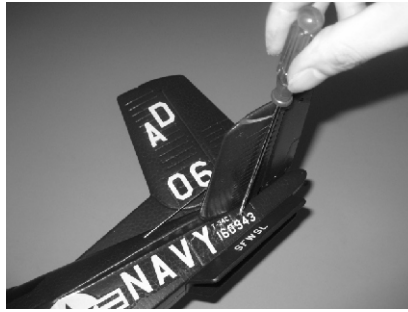
**3. Install the power system.**

Take of the cover from the head of fuselage, then take of the assembled power system and fix the motor on the motor base, then install the cover back.



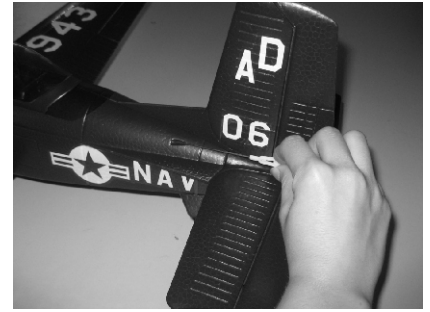
#### 4. Assembly of the horizontal wings.

Take of the horizontal wing&vertical wing&fixed screw(PA2\*10MM) from the box. Please assemble the horizontal wing and vertical wing as the following pictures. ,then assemble them to the right place of the fuselage by screws(PA2\*10MM) .At last, lock the main wings with fuselage.



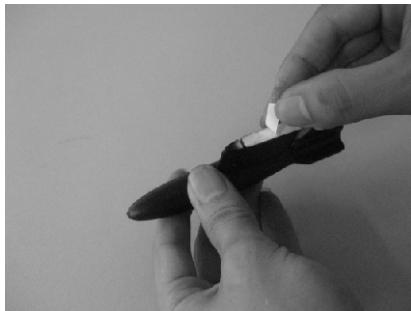
#### 5. Assembly of the vertical wing and horizontal wing.

Connect the elevator servo arm with rudder servo arm, then locate the clevis at the outermost hole on servo arm.



#### 6. Assembly of the bomb package.

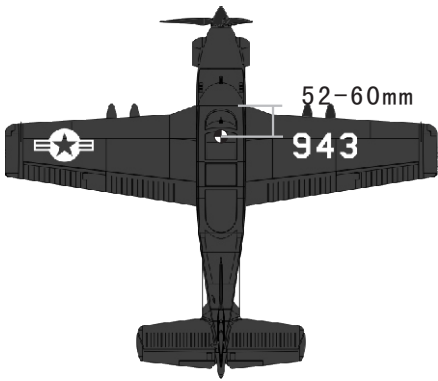
Take of the bomb package, tear off the stick surface, then stick it to the mounting groove of bomb on the surface of wing.



#### 7. Finished the assembly of "T-34".

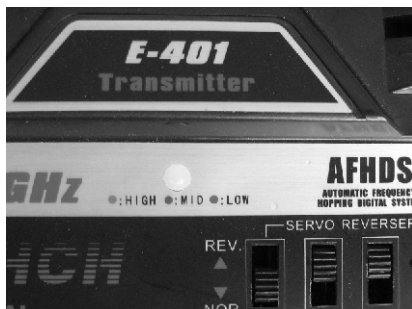


#### 8. Check the center of gravity and make sure that the CG of the plane should be within the range as indicated by the arrows.



### Adjustment steps

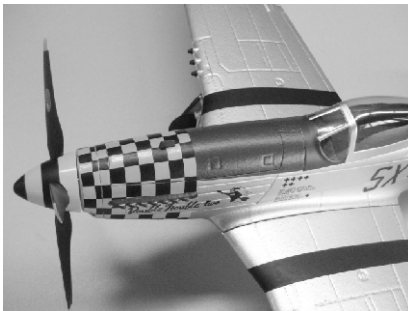
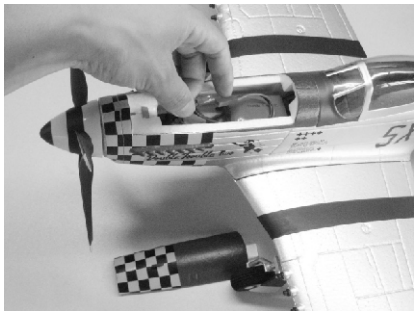
1. Turn on the transmitter and please make sure that there is enough power for the transmitter. Push the joystick of the throttle and throttle trim switch to the lowest position, and keep other trim switch be in the neutral position.



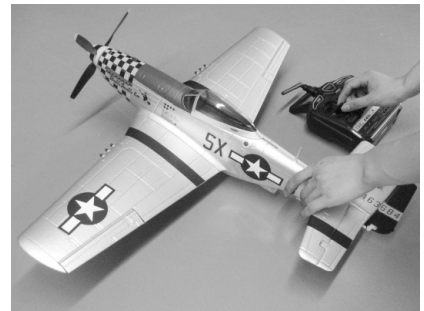


## Adjustment steps

2. Please connect the battery to the ESC plug, and put the battery into the battery case well, than close the battery cover.



3. Please catch the back part of the fuselage and push the throttle slowly, which can check whether the motor can work or not.



4. Please check the collets to confirm whether it become loose or not, and make sure that the control surface is in accordance with the movement of joystick.



5. Finished the adjustment for "750MM series airplanes".



## Safety precautions

1. If you have the simulator, we suggest that you can practise your skill by the simulator before you fly this model, which will bring some help for you.
2. Please climb the plane above the 50 meters with half throttle to fly it when you fly it for your first time, then you will be familiar with the performance of this plane.
3. You should learn how to control this model blandly, it will reduce the possibility of crash and prolong the usage life of the plane.
4. The turn radius should not be too little, or it will stall and it will increase the possibility of crash.
5. When taking off or landing the plane, you should against the wind.
6. Do not fly the model over your head or behind you, you should fly the model in front of you.

## Charging method and cautions

### Li-Po battery(balance changer) specifications

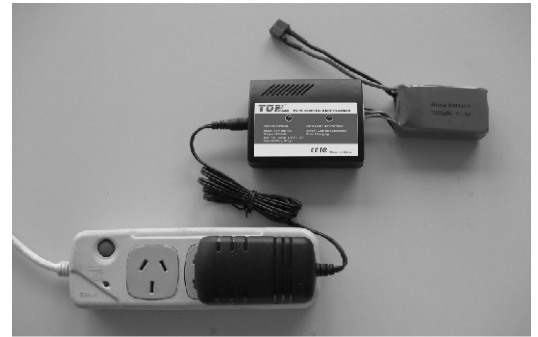
Specifications:  
Input voltage: DC 10V~15V  
Output voltage: 2S-3S Li-Po battery  
Charging current: 1.0A

Indicator state:  
Green: Charge complete & no battery  
Red: Charging  
The batteries are inspected separately. When the voltage reaches 4.20V, the charging process stops.



## Operating

1. Then plug cigarette into its socket in car (Adapter should be connected if charge at home: connect the adapter to home power socket, then plug the adapter' DC end to charger). The LED will turn green indicating it is ready for charging.
2. Connect the battery to charger per its interface mark. The LED becomes red, which means charging is on the way.
3. When LED flashing, the charger will enter the stage of drip current charging. The LED turns green when fully charged, and the battery will be used at any time.



## Notice

1. While charging is in process, please do not make it near flammable materials.
2. Expect Li poly battery, this charger is not allowed for other kinds of battery.
3. While charging, please keep it out of the reach of Children.
4. When this charger is in use, please do not go away and leave it unwatched, if any abnormality occurs (such as the power indicator is off, the temperature of the battery rise rapidly, etc.) stop charging immediately.
5. Please do not use power with output voltage higher than 15V.
6. Please do not disassemble the charger or its accessories.
7. When the battery is not cool down, please do not urge to charge it.

## Notice

1. Be fully charged under no more than 1 A voltage by using the specified charger.
2. Be discharged under 10C voltage but avoiding discharge time too long to harm the battery.
3. Repeat the first and second step one or two times.
4. When the Li-poly battery was stored more than 3 months, it needs to be recharged to maintain its voltage, and ensure its life time.

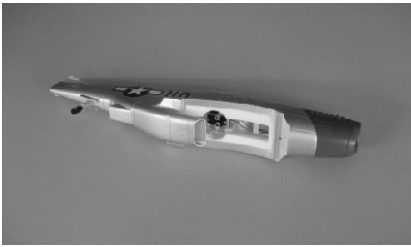
## Safety Instruction of Li-Po/Ni-MH battery

1. Do not disassemble or reconstruct the battery.
2. Do not short-circuit the battery.
3. Do not use or leave the battery nearby the fire, stove or heated place (more than 80°C).
4. Do not immerse the battery in water or sea water, do not get it wet.
5. Do not charge the battery under the blazing sunlight.
6. Do not drive a nail into the battery, strike it by hammer or tread it.
7. Do not impact or toss the battery.
8. Do not use the battery with conspicuous damage or deformation.
9. Do not charge a warm battery. Allow it to cool completely before attempting to charge.
10. Do not reverse charge or over discharge the battery.
11. Do not connect the battery to the ordinary charger socket or car cigarette jack.
12. Do not use the battery for unspecified equipment.
13. 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.
14. Do not mix the Li-Poly battery with other un-chargeable battery in using.
15. Do not continue charging the battery over the prescribed time.
16. Do not put the battery into the microwave oven or high-pressure container.
17. Do not use the abnormal battery.
18. Do not use or keep the battery under the sunlight.
19. Do not use the battery nearby the place where generates static electricity (over 64V).
20. Do not charge the battery when the environmental temperature is under 0°C or over 45°C.
21. If you find the battery leaking, smelling or abnormal, stop using it and return it to the seller.
22. When the battery is charging, please do not make it near the flammable materials!
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 to the correct instruction.

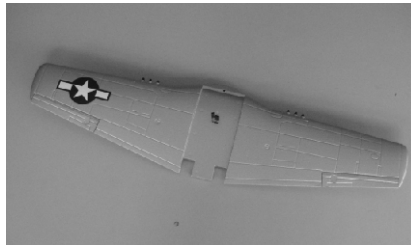
## Notification for ESC

1. The function of this ESC was in the best condition after factory setting; please do not change it by yourself.
2. Before connecting the battery, please make sure the throttle and trim were in the lowest position. If the throttle and trim were not in the lowest position by mistake after connecting the battery, you can cut off the battery; move the throttle and push to the lowest position, then connect the battery.
3. The ESC of the airplane was in a good cooling position after factory assembly; please do not move its position.
4. The ESC should be connected to the brushless motor correctly, otherwise the motor will be reversed turning, and the model airplane can not fly correctly.

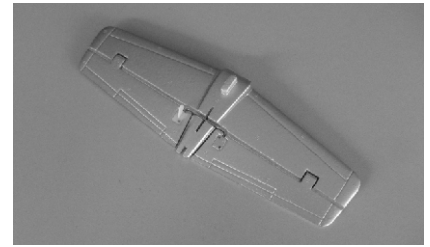
## Spare parts(P-51D MUSTANG)



No:top01601  
Fuselage (Blue)



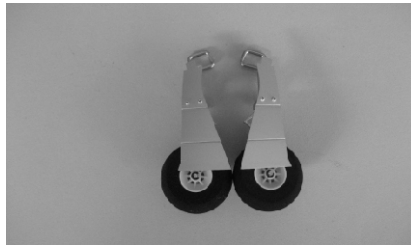
No:top01602  
Main wing (Blue)



No:top01603  
Horizontal wing (Blue)



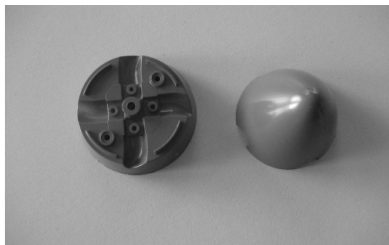
No:top01604  
Vertical Wing (Blue)



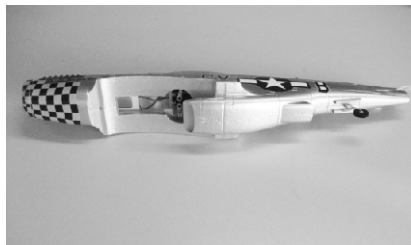
No:top01605  
Landing Gear (Blue)



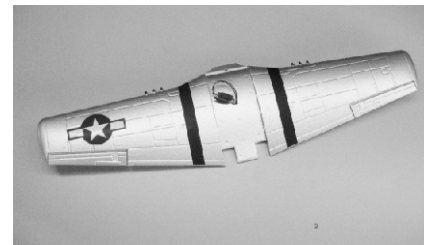
No:top01606  
Cabin (Blue)



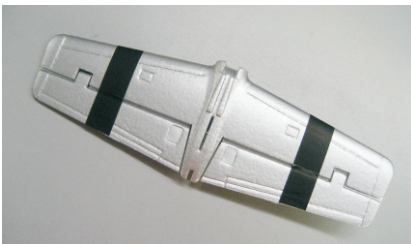
No:top01607  
Spinner (Blue)



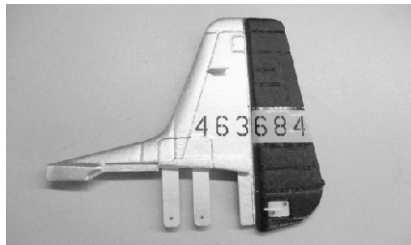
No:top 01608  
Fuselage (Yellow)



No:top01609  
Main wing (Yellow)



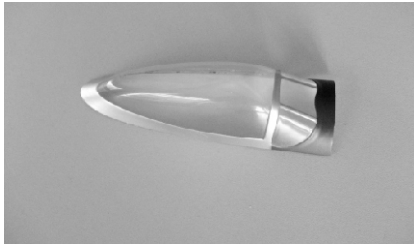
No:top01610  
Horizontal wing (Yellow)



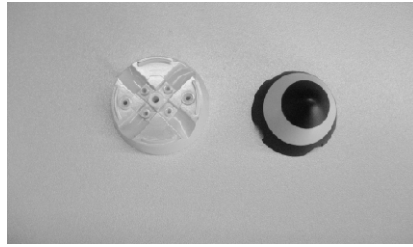
No:top01611  
Vertical Wing (Yellow)



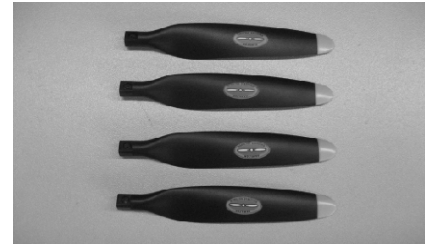
No:top01612  
Landing Gear (Yellow)



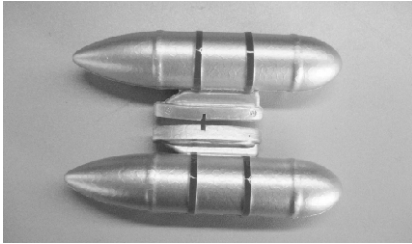
No:top01613  
Cabin (Yellow)



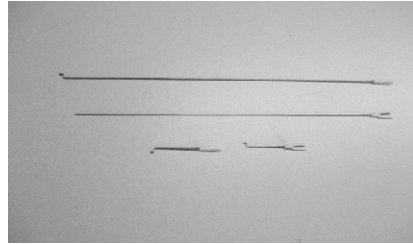
No:top01614  
Spinner (Yellow)



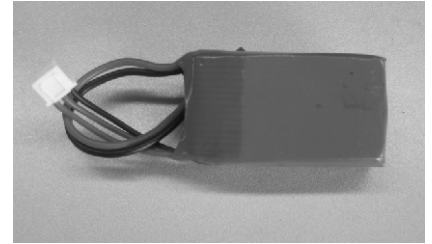
No:top01615  
Propellor



No:top01617  
Auxiliary Oil Tank



No:top01618  
Controlling steel



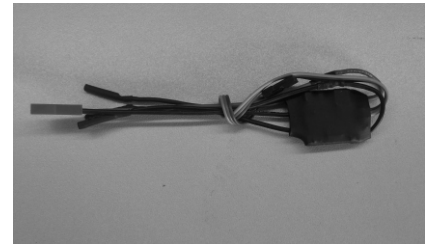
No:top503  
7.4V,1000mah Lipo Battery



No:top30204  
9g Servo (Wire:150mm)



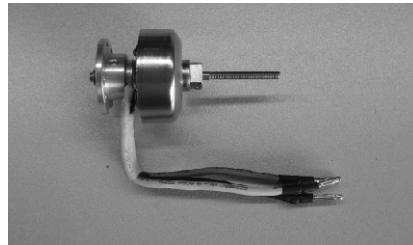
No:top30205  
9g Servo (Wire:150mm)



No:top201  
12A Brushless ESC



No: top404  
motor(DST-1200)

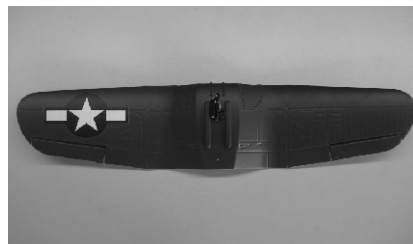


No:top401  
Motor (DST-1300)

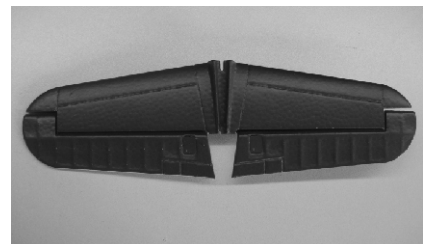
### Spare parts(F4U CORSAIR)



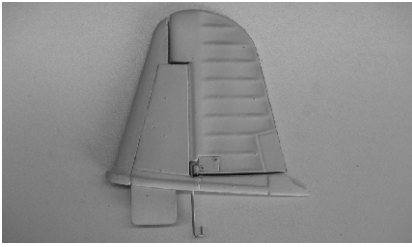
No:top01101  
Fuselage (Blue)



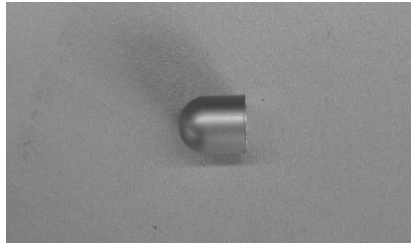
No:top01102  
Main wings (Blue)



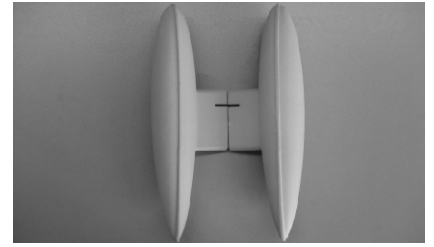
No:top01104  
Horizontal wings (Blue)



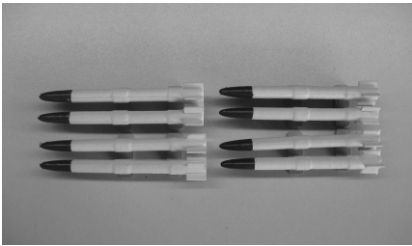
No:top01103  
Vertical Wings (Blue)



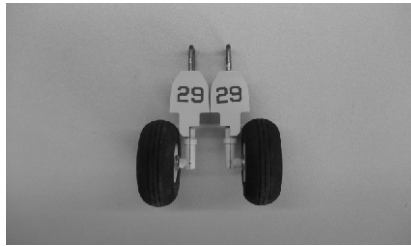
No:top01114  
Spinner (Blue)



No:top01106  
Auxiliary Oil Tank (Blue)



No:top01105  
Guided missile (Blue)



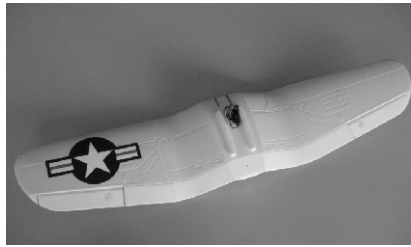
No:top01107  
Landing Gear (Blue)



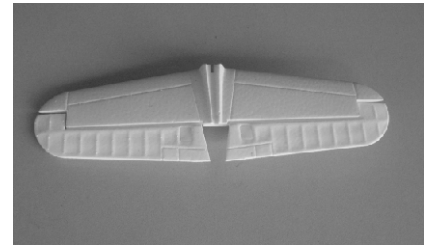
No:top01113  
Propellor (Blue)



No:top01108  
Fuselage (Yellow)



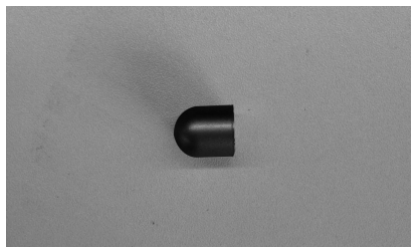
No:top01109  
Main wings (Yellow)



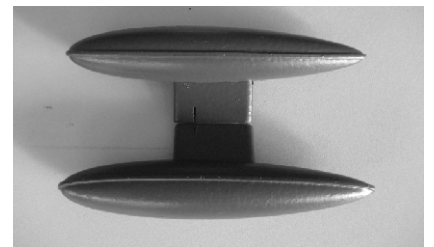
No:top01111  
Horizontal wings (Yellow)



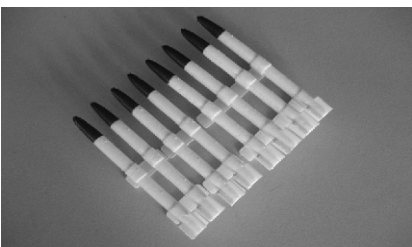
No:top01110  
Vertical Wings (Yellow)



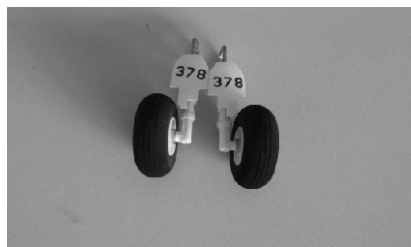
No:top01115  
Spinner (Yellow)



No:top01116  
Auxiliary Oil Tank (Yellow)



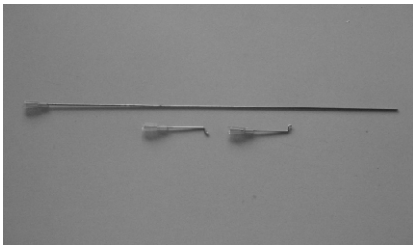
No:top01117  
Guided Missile (Yellow)



No:top01118  
Landing Gear (Yellow)



No:top01119  
Propellor (Yellow)

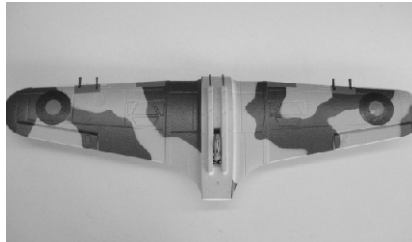


No:top01112  
Controlling steel

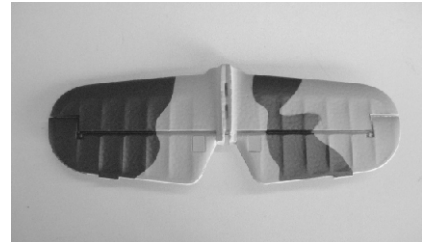
**Spare parts(HURRICANE MK II )**



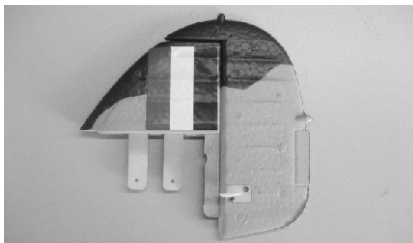
No:top 01301  
Fuselage(green)



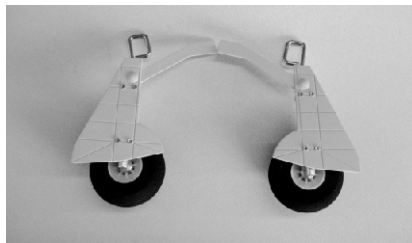
No:top01302  
Main wing(green)



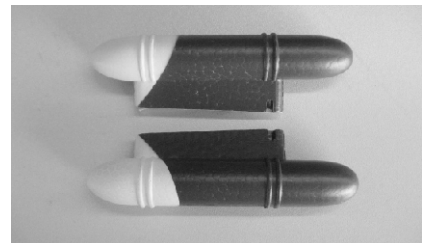
No:top01303  
Horizontal wing(green)



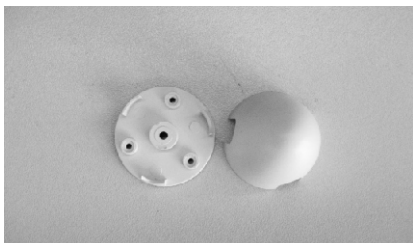
No:top01304  
Vertical Wing(green)



No:top01305  
Landing Gear(green)



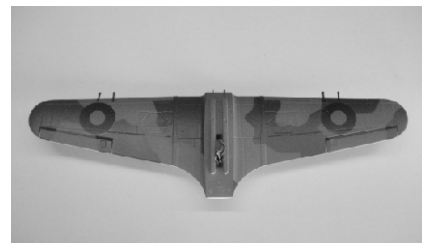
No:top01306  
Auxiliary oil tank(green)



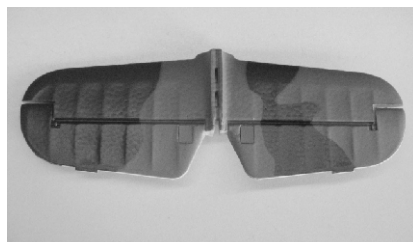
No:top01307  
Spinner(green)



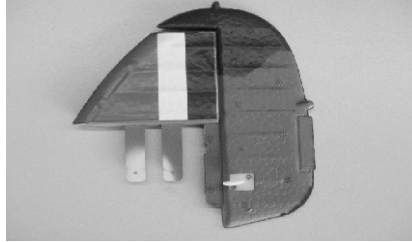
No:top 01308  
Fuselage(camo)



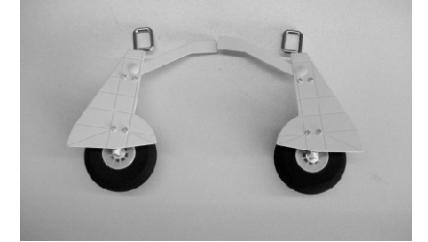
No:top01309  
Main wing(camo)



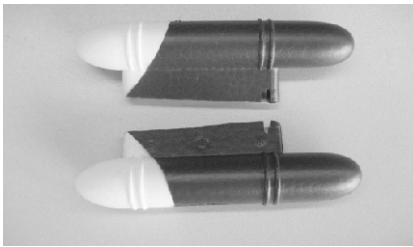
No:top01310  
Horizontal wing(camo)



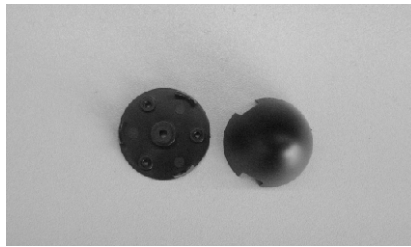
No:top01311  
Vertical Wing(camo)



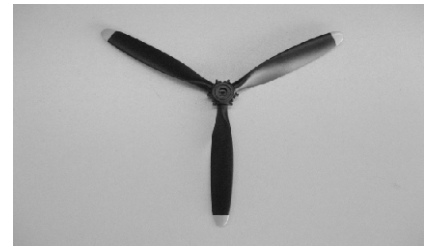
No:top01312  
Landing Gear(camo)



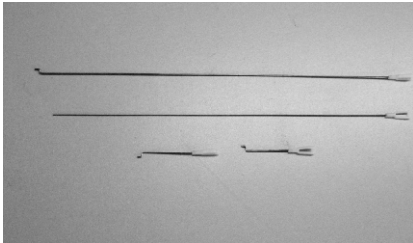
No:top01313  
Auxiliary oil tank (camo)



No:top01314  
Spinner(camo)



No:top01315  
Propellor



No:top01316  
Controlling steel

### Spare parts (T-34)



No:top 01501  
Fuselage (Blue)



No:top01502  
Main wing (Blue)



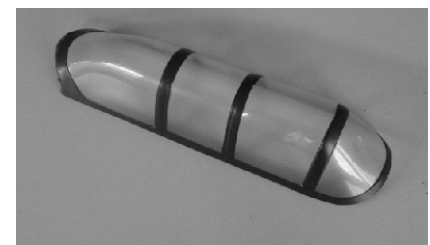
No:top01503  
Horizontal wing (Blue)



No:top01504  
Vertical Wing (Blue)



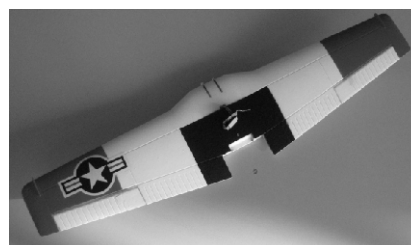
No:top01507  
Landing Gear (Blue)



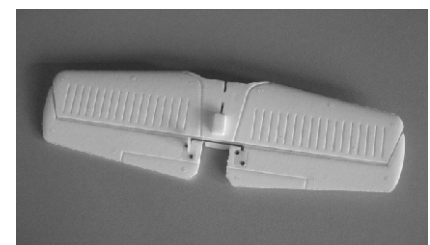
No:top01508  
Cabin (Blue)



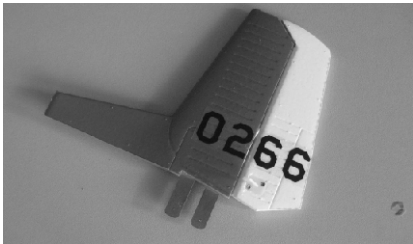
No:top01510  
Fuselage(Red)



No:top 01511  
Main wing(Red)



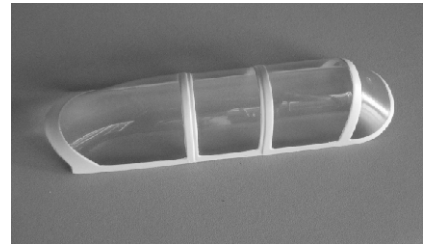
No:top01512  
Horizontal wing(Red)



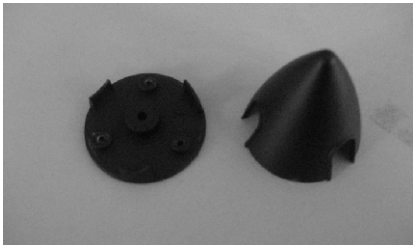
No:top01513  
Vertical Wing(Red)



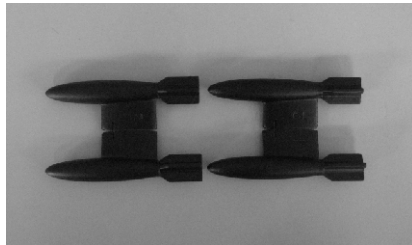
No:top01516  
Landing Gear(Red)



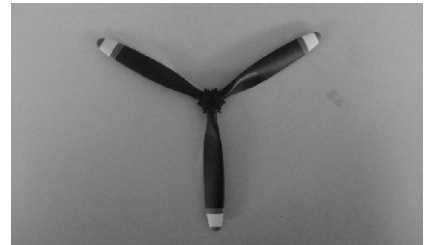
No:top01517  
Cabin(Red)



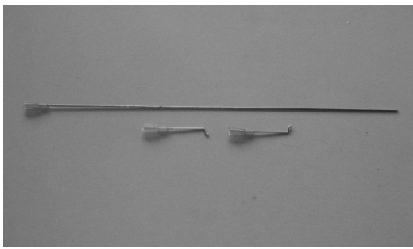
No:top01505  
Spinner



No:top01506  
Bomb



No:top01509  
Propellor



No:top01518  
Controlling steel



## TROUBLE SHOOTING

Trouble	Possible Reason	Action
Motor doesn't work, but there are audible tones signalling the number of cells.	The ESC throttle calibration has not set up.	Set up the ESC throttle calibration.
Motor doesn't work and no audible tone emitted. Servos are not working either.	Poor/loose connection between battery Pack and ESC.	Clean connector terminals or replace connector.
	No power	Replace with a freshly charged battery pack
	Poor soldered connections	Re-solder the cable connections
	Wrong battery cable polarity	Check and verify cable polarity
	ESC throttle cable connected to receiver in the reverse polarity	Check the ESC cable connected to the ESC to ensure the connectors are in the correct polarity.
Motor doesn't work and no audible tone emitted BUT servos are working. Motor doesn't work. An alert tone with single beeping tones followed by a short pause (* * * *) is emitted.	Poor / loose connection between ESC and motor	Clean connector terminals or replace connectors
	Burnt motor coils	Replace motor
	Poor soldered connections.	Re-solder the cable connections
	The battery pack voltage exceeds the acceptable range.	Replace with a freshly charged battery pack Check battery pack voltage
Motor doesn't work. An alert tone with continuous beeping tones (***) is emitted.	The throttle stick is not in the lowest position at power up.	Move the throttle stick to the lowest position.
Motor doesn't work,ESC emits two audible tones followed by short beeps (Trouble Shooting).	Reversed throttle channel caused the ESC to enter the programming mode.	Enter the servo reverse menu on your transmitter and reverse the throttle channel. Note: For Futaba radios set the throttle channel to Reverse.
Motor stops running in flight.	Lost throttle signal.	Check proper operation of the radio equipment. Check the placement of the ESC and the Receiver and check the route of the receiver's aerial and ESC cables to ensure there is adequate separation to prevent RF interference. Install a ferrite ring on the ESC's throttle cable.
	Battery Pack voltage has reached the Low Voltage Protection threshold.	Land the model immediately and replace the battery pack.
	Possible bad cable connection.	Check and verify the integrity of the cable connections
Motor restarts abnormally ESC Overheats.	Possible RF Interference at the flying field.	The normal operation of the ESC may be susceptible to surrounding RF interference. Restart the ESC to resume normal operation on the ground to verify recurrence. If the problem persists, test the operation of the ESC at a different flying field.
	Inadequate Ventilation	Relocate the ESC to allow better ventilation.
	Servos drawing too much current and over loading the ESC.	Use servos that are adequately sized for the ESC. The maximum BEC current drawn should be within the BEC limits.
	Over sized motor or prop.	Reduce prop size or resize the motor.