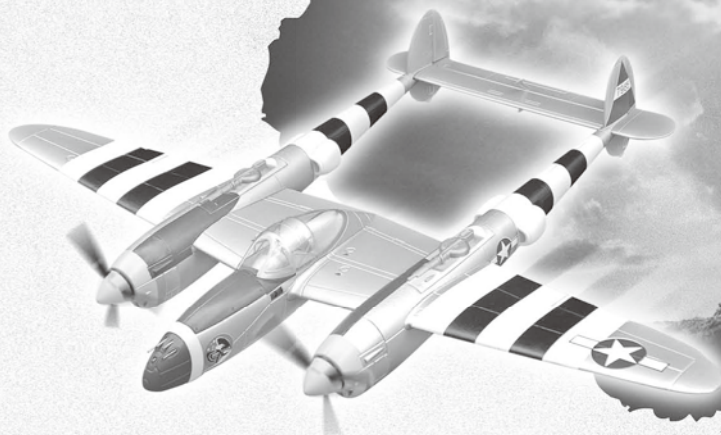


Smooth, Powerful & Responsive



P-38

LIGHTNING

High Performance

RC WARBIRDS

ASSEMBLY AND OPERATING
INSTRUCTIONS

ASSEMBLY AND OPERATING INSTRUCTIONS

Specifications

Wing span:	1400mm
Length:	1015mm
Weight:	1150g
Height:	320mm
Transmitter:	6CH
Servo:	10*9g, 1.3Kkg/cm, 0.12s/60
Battery:	11.1V 2200mAh (20C) Li-polymer battery
ESC:	2*30A
Moto:	2*DST 1150
KIT/ARF/RTF:	RTF

Dear customer

Many thanks for purchasing such a fantastic model aircraft designed for the hobby enthusiast and much gratitude for placing your trust in us.

Very little work is required to prepare the model ready for flying. You can make it as easy as possible to operate your new aero plane safely by taking the trouble to read through these instructions attentively, before you fly it for the first time.

The power system

The model is powered by two brushless outrunner motors, both of which are pre-installed.

The motors are connected to the speed controllers, ready to run, and the controllers are pre-installed.

All you need to do is connect the Li-Po flight battery to the speed controllers.

The radio control system

To fly the P-38 you need a radio control system with 6 channels. We particularly recommend 2.4 G systems.

The servos for the ailerons, the elevators, the rudders, and the retractable landing gear system are pre-installed.

The power supply for the receiving system is drawn from the speed controllers' integral BEC system.

To check the model's working system, first set the control surface servos to

neutral from the transmitter, after checking that the transmitter sticks and trims are at centre.

When you wish to fly the model, always move the throttle stick to the OFF position before switching the transmitter on, and only then connect the flight battery to the speed controllers.

Switch off in the reverse order: disconnect the battery from the speed controllers first and only then switch the transmitter off.

Additional parts required

Glue – Epoxy or foam safe glue (consult your model shop for advice)

Cross screwdriver

Kit contents

Main fuselage, 2 side fuselages with retractable landing gear system, 2 speed controllers and 10 servos and 2 motors

Canopy

Horizontal tail wing

2× main wing

2× vertical tail wing

2×servo for ailerons

2×servo for elevators

2×servo for rudders

3×servo for retractable landing gear system

1×servo for steering nose gear

2×propeller set

1×Li-Po battery, 3S 11.1V 2200mAh (20C)

8× Y-lead

Illustrations of Assembly



- Open the box and check all the parts.

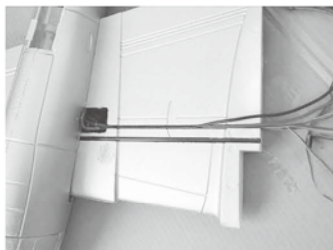
- Get ready the power Y-lead, the signal Y-leads of Channel 1, 2, 3, 4, 5, the main wings and the side fuselages (left and right)



- Connect the Y-lead of Channel 1 to the main wings.



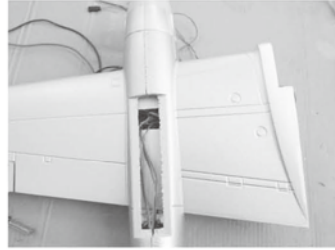
- Connect the power Y-lead and the Y-leads of Channel 2, 3, 4 to the side fuselages.



- Fix the slots with scotch tape.



- Fix the slots with scotch tape.



- Put the fixed leads of Channel 1, 2, 3, 4, 5 and power Y-lead through the main fuselage. (Pay attention to the direction of the main fuselage)



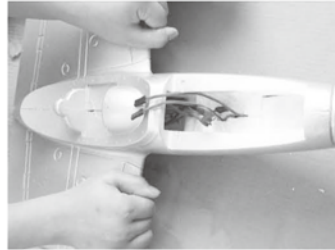
- Connect the power lead and the leads of Channel 1, 2, 3, 4, 5 to the other main wing.



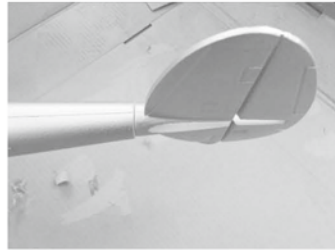
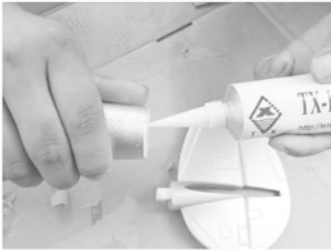
- Apply glue to both sides of the main wings.



- Fix the main wings with the main fuselage as the picture has shown and connect Channel 4 and Channel 5 with a short Y-lead.



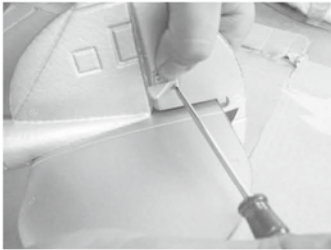
- Glue the vertical tail wings to the rear parts of the side fuselages.



- Fix the horizontal tail wing as shown below.



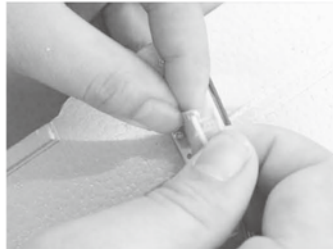
- Fix the plastic parts and the pushrods on the vertical tail wings.



- Fix the plastic parts and the pushrods on the horizontal tail wing.



- Fix the plastic parts and the pushrods on the main wings.



-
- Fix the propeller blades and the connecting piece correctly and screw it tight.



- Fix the propeller base as shown below.



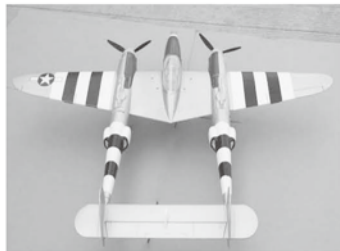
- Fix the propeller to the base and screw it tight.



- Fix the propeller spinner and screw it tight with a cross screwdriver.



- Glue the canopy to the fuselage as shown bellow and there comes the complete P-38.



Checking the control surfaces

Check that the control surfaces respond to the appropriate movements of the transmitter sticks. If not, swap over the connectors at the receiver.

Stand behind the model.

Check the direction of rotation of the servos:

Move the aileron stick to the right, and the right aileron must rise, the left aileron fall.

Pull the elevator stick back towards you, and the trailing edge of both elevators should rise.

Move the rudder stick to the right, and the nose gear must turn right and rudders move right.

If either function works the wrong way round, correct it using your transmitter's servo reverse facility for that channel.

Check the function of the retracting devices:

Turn the model upside down and pull the landing gear mix down, and the landing gear should retract; pull the landing gear mix up, the landing gear should protrude.

If either function works in the wrong way, check that if the landing gear is installed in the right position.

Checking the power system

Hold the model securely.

Open the throttle (stick forward): the motor should now run, and you should feel two strong flows of air exiting the two propellers of the model.

Move the throttle stick back to the OFF position.

Disconnect the battery from the speed controllers, and then switch the transmitter off.

Checking the position of the Center of Gravity as shown bellow

The next step is to check the model's balance: place the flight battery in its compartment, but do not connect it.

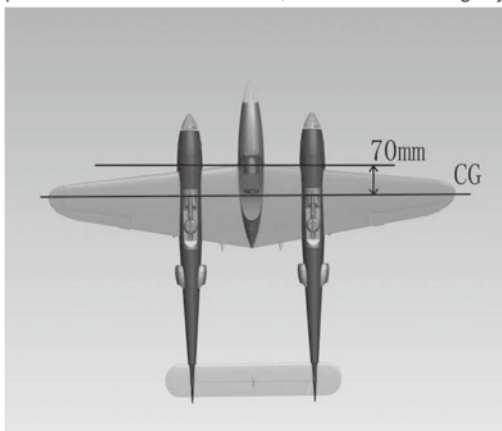
Mark the Center of Gravity on both sides of the fuselage; the position is stated in the diagram.

Support the model at the marked points and allow it to hang freely. When correctly balanced the airplane will remain horizontal, with the nose slightly down.

If necessary, adjust the position of the flight battery to achieve the correct CG.

Mark the battery location in the main fuselage, so that you can be sure of positioning it correctly after recharging it.

Pack scrap pieces of foam round the battery in its final position, otherwise there is a danger of it shifting in flight and altering the model's balance.



Test-flying, notes on flying the aeroplane

Please read the sections bellow entitled "Safety Notes" thoroughly.

For the first flight you should wait for a day with no more than a gentle breeze.

A good flying site is a large, flat, open field with a long and wide runway. Keep well away from trees, fences, high-tension overhead cables and other potentially dangerous obstacles.

Carry out a complete check of the working systems.

We recommend that you ask an experienced modeler to help you initially; he should be confident of giving the model a fairly powerful launch.

Switch the motor on, and maximize the power and let P-38 accelerate; keep it running straight into the wind; after it runs more than 60 feet, you can pull the

elevator joy stick, and it will take off.

Allow P-38 to fly straight and level initially; don't try to turn it.

Adjust the trims if necessary so that the model settles into a steady climb.

Take the aeroplane up to a safe height and check its stalling speed.

Only 30% of the maximum power is needed to keep P-38 flying. To extend your flying time it is a good idea use both power and gliding techniques.

If you had to move the trims during the flight, correct the mechanical linkages before flying again. This allows you to re-center the trims, so that full trim travel is available for subsequent flights.

Landing: Before landing, reduce the power and fly the model into the wind. When P-38 nears the ground, remember to ease the elevator joystick back and P-38 will land gently.

Safety Notes

Radio-controlled models are not toys or playthings in the usual meaning of the term, and they should only be operated by young people under 14 years if an experienced adult is available to supervise them.

Please adjust this plane according to instructions and make sure fingers, hands and other foreign objects are kept away from the rotating parts of the airplane motor.

Keep your radio system from dust, dirt and damp and overcharging or incorrect charging methods can cause batteries to explode.

Do not subject your equipment to excessive heat, cold or vibration.

Never leave this system unattended around children and remove the batteries when not in use.

Never operate your equipment in stormy weather.

Never fly the model in crowded areas or around electrical wires. Do not fly around an active airport. Remember you are responsible for the safety of others.

Always switch on the transmitter first, then the receiver; always switch off the receiver first, then the transmitter.

Always check for other modelers who may be using the same radio frequency before turning on your transmitter.

Make sure that the batteries in your transmitter are fresh and the antenna is fully extended to ensure maximum range for your aircraft.

Errors, negligence and omissions in building or operating these models can result in serious personal injury and damage to property.

Please read all instructions thoroughly and follow the assembly instructions carefully.

