

SUPER-E is a new brand from Techone Hobby. It focus on the design and manufacture of electrical molded models. Innovation and concentration is our principle. SUPER-E will develop more electrical molded models to you all and give you brand-new flying experience.

**Item.No: 08600**



**Perfect combination of glider and power flight.**

### **Nanoflying**

Nanoflying is a new developed series from TechOne Hobby. It inherits all excellent flying performance of big size rc planes, but it's easier to take and assemble due to its small size, this superior character will give you brand-new flying experience.

Easy to fly, beautiful design and simple maintenance is always our design aim.

like a gust of wind

----- a scream

-----a beeline

-----an enjoyment

- 1.Wing fences on the leading edge make the flying more stable.
- 2.Upper dihedral angle design increases the stability of flying wing's landscape orientation.
- 3.Proper size double rudders strengthen the plane's maneuverability and stability.
- 4.Thrust to weight ratio is 1:1, can make vertical turn and climbing.
- 5.Use maganets to fix the equipment cabin, no need additional assembly tools.
- 6.Perfect combination of glider and power flight.

## Product Specifications

Fuselage length: 340 mm (13.4 in.)  
Wingspan: 588mm (23.2 in.)  
Flying Weight: 100-130g ( with battery )  
Motor: Motor MT1306 KV 3100 Outrunner Brushless.  
ESC: 6 Amp  
Propeller: GWS4540  
Servo: 2.5g\*2 micro servo  
Radio : 4/more channel  
Receiver: 4/more channel  
Battery: 200-350mah 7.4v lipo 25c

## Examine your kit carefully!

Super-e model kits are subject to constant quality checks throughout the production process, and we sincerely hope that you are completely satisfied with the contents of your kit. However, we would ask you to check all the parts before you start construction, referring to the Parts List, as we cannot exchange components which you have already modified. If you find any part is not acceptable for any reason, we will readily correct or exchange it once we have examined the faulty component. Just send the offending part to our Model Department. Please be sure to include the enclosed complaint form, duly completed. We are constantly working on improving our models, and for this reason we must reserve the right to change the kit contents in terms of shape or dimensions of parts, technology, materials and fittings, without prior notification. Please understand that we cannot entertain claims against us if the kit contents do not agree in every respect with the instructions and the illustrations.

## Caution!

Radio-controlled models, and especially model aircraft, are by no means playthings in the usual sense of the term. Building and operating them safely requires a certain level of technical competence and manual skill, together with discipline and a responsible attitude at the flying field. Errors and carelessness in building and flying the model can result in serious personal injury and damage to property. Since we, as manufacturers, have no control over the construction, maintenance and operation of our products, we are obliged to take this opportunity to point out these hazards and to emphasise your personal responsibility.

## Do not fly under the conditions below

Wind strong enough to make the trees rustle.  
A street with many trees or street lamps.  
Close to high voltage electrical wires.  
High Population density areas.

## Cautions for flying

Front lawns and parks make excellent flying areas. Make sure you have permission to fly and follow safety guidelines set by local authorities. The calmer the wind, the better!

## Note for Storage

Please disconnect the lipo packs when finished flying.  
Do not press or crush the airplane when storing.  
The best way to store is to hang the airplane to keep the control surface rigid.

**Tools:**

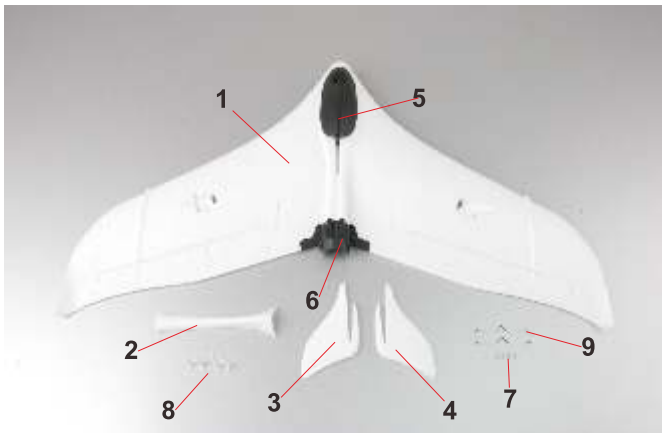
Scissors, balsa knife, combination pliers, screwdriver, quick-dry glue

**Applying the decals**



Please note we applied all the labels in our factory. In case that some orders are not required to apply labels, please apply the label by yourself according to above pictures.

### Parts included in the packing:

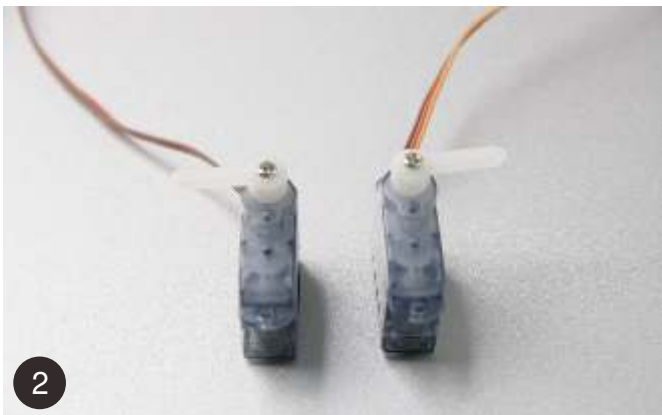


- 1 Fuselage
- 2 Air outlet
- 3 Left rudder
- 4 Right rudder
- 5 Equipment cabin canopy
- 6 Motor mount
- 7 1.5\*5mm motor fixing screws 4pcs
- 8 Control horn 2pcs
- 9 Push rod 2pcs

**Assembly Steps (Some of following assembly steps are finished in factory, you can read by optional. )**



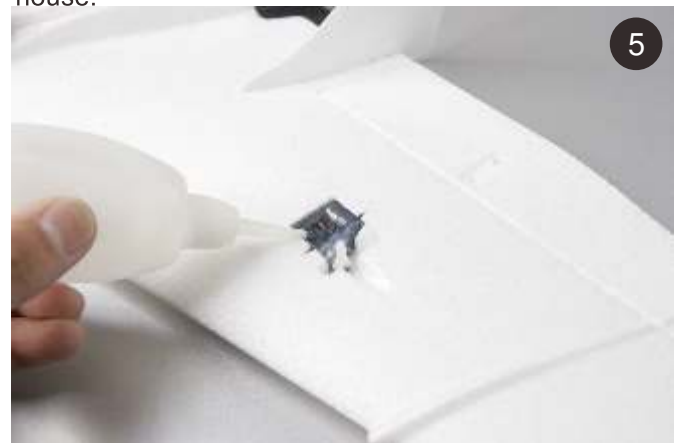
Insert double rudders into corresponding slots on wings, then use glue to fix. Note: Make sure the two rudders are perpendicular to the wing surface.



Use screws to install servo arms.



Pass the servo connector through the hole under servo house.



Place servo into servo house and fix with glue.



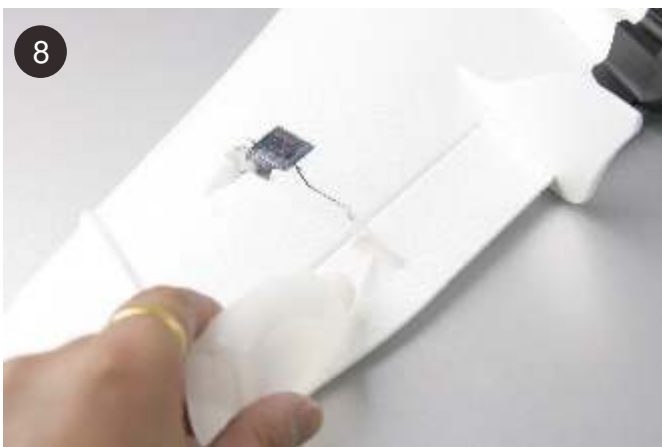
Then embed servo wire into the pre-reserved slot on bottom wing, and fix with glue paper.

**Note:**

1. Make sure the servo arm is centered.
2. Please use servo extension once the servo wire is limited.



After servo fixed, install the adjustable wire (pushrod) which is included in the packing onto the servo arm hole. Please make the gibbous side up.



Then connect another side of wire to control horn, then fix the control horn on pre-reserved place on aileron with glue.



Fix MT1306 KV3100 motor on the black motor mount with included self-tapping screws.



Install propeller on motor shaft, then use included prop holder to fix.





Connect ESC and motor by welding. Note: Please make sure motor rotates correctly.



Embed the wires and put ESC into the slot of fuselage.



Place the foam air outlet on the slot, then fix with glue.



Install receiver, ESC and battery, and power on, then debug before fly.

Note: Please set the transmitter in mode--Elevon Wing Type Connection.





After test, you can cover the equipment cabin canopy as picture shown.



### Recommended Flying Setup

Max servo travel of aileron: 20 degrees up and 20 degrees down (15mm)

Max servo travel of elevator: 2 degrees up and 20 degrees down (15mm)

Setting the correct control surface travels is important if you wish the model to respond to the control commands in a balanced manner.

The travels should always be measured at the widest part of the control surface.

The control surface travels are not critical, and if you are unable to set the exact stated travels using your transmitter's adjustment facilities, that's no problem. If the discrepancy is relatively great, you will need to re-connect the linkage using a different hole at the horn or servo output arm.

If you intend to fly the model as a trainer, we recommend that you reduce the control surface travels to about 50 - 60% of the stated values.



### Setting the Centre of Gravity

Like any other aircraft, the mini-Neptune must be balanced at a particular point in order to achieve stable flying characteristics. Assemble your model ready to fly, and install the flight battery.

The Centre of Gravity (CG) should be at a position of 165mm away from the nose, please refer to attached picture.

Support the model at this position on two fingertips, and it should balance level. If not, you can move the flight battery forward or aft to correct the balance point. Once the correct position is found, mark the location of the flight pack inside the model to ensure that it is always replaced in the same position.

### Preparations for the first flight

Please wait for a day with as little breeze as possible for the model's initial test-flight. The evening hours are often ideal for calm conditions.

Be sure to carry out a range check before the first flight, using the procedure described in your RC system instructions. If you encounter a problem, please don't risk a flight.

#### The first flight ...

If you are a beginner to model flying we strongly recommend that you ask an experienced model pilot to help you for the first few flights.

### Hand-launching

Please don't try unpowered test-glides with this model – the result is invariably a damaged airframe. The Mini Neptune should be hand-launched with the motor running at half-throttle, and always pointing directly into wind. Ask an experienced modeller to hand-launch your aircraft for you.

The launcher should run forward for two or three paces, then give the machine a powerful straight launch, with the wings and fuselage level. Use the controls to hold the model in a steady, gentle climb - remember to keep the rate of ascent shallow and the airspeed high!

Allow the aeroplane to climb to a safe height, then adjust the trims on the transmitter until it flies in a perfectly straight line “hands off”. While the model is still at a safe altitude, throttle back and try out the controls on the glide. Carry out a “dry run” landing approach at a safe height so that you are prepared for the real landing when the battery runs flat.

Don't try any tight turns at first, and especially not on the landing approach at low altitude. It is always better to land safely at some distance from you, than to force the model back to your feet and risk a heavy landing.

## Safety

Safety is the First Commandment when flying any model aircraft.

Third party insurance should be considered a basic essential. If you join a model club suitable cover will usually be available through the organisation. It is your personal responsibility to ensure that your insurance is adequate. Make it your job to keep your models and your radio control system in perfect order at all times. Check the correct charging procedure for the batteries you are using. Make use of all sensible safety systems and precautions which are advised for your system. An excellent source of practical accessories is the SUPER-E main catalogue, as our products are designed and manufactured exclusively by practising modellers for other practising modellers.

Always fly with a responsible attitude. You may think that flying low over other people's heads is proof of your piloting skill; others know better. The real expert does not need to prove himself in such childish ways. Let other pilots know that this is what you think too.

Always fly in such a way that you do not endanger yourself or others. Bear in mind that even the best RC system in the world is subject to outside interference. No matter how many years of accident-free flying you have under your belt, you have no idea what will happen in the next minute.

The SUPER-E team - hope you have many hours of pleasure building and flying your new model.

[www.super-emodel.com](http://www.super-emodel.com)  
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Mini Neptune Black: 08600B

Mini Neptune Green: 08200G

Item.No: 08601  
Fuselage



Item.No: 08602  
Double rudders



Item.No: 08603  
Equipment cabin canopy



Item.No: 08604  
Motor mount



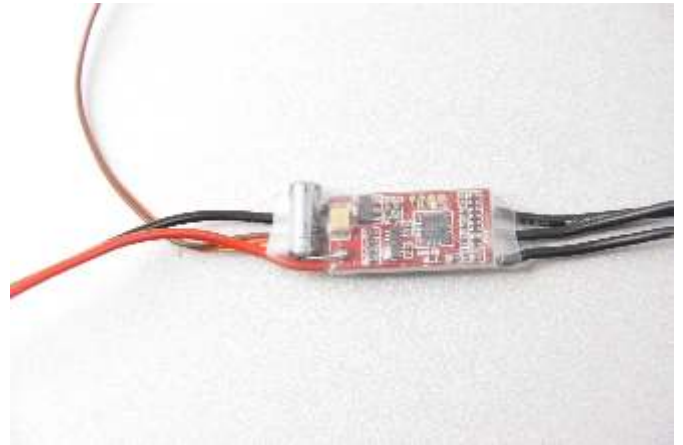
Item.No: 08605  
Water decals



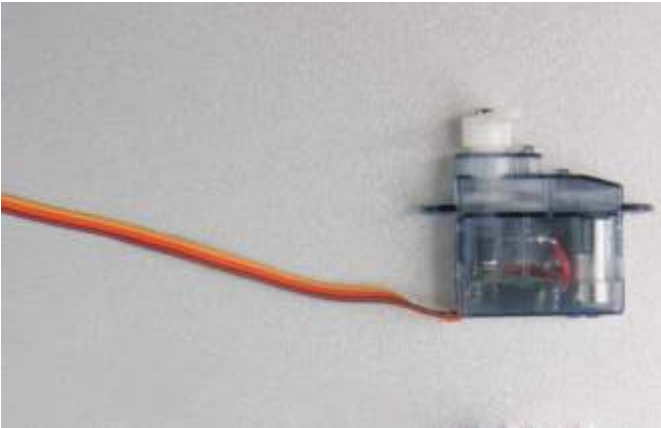
Item.No: 08606  
Motor MT1306 KV 3100



Item.No: 08609  
6A ESC



Item.No: 08607  
Servo 2.5g



Item.No: 08610  
Prop: GWS 4540



Item.No: 08608  
7.4V 300mah lipo 25c battery

