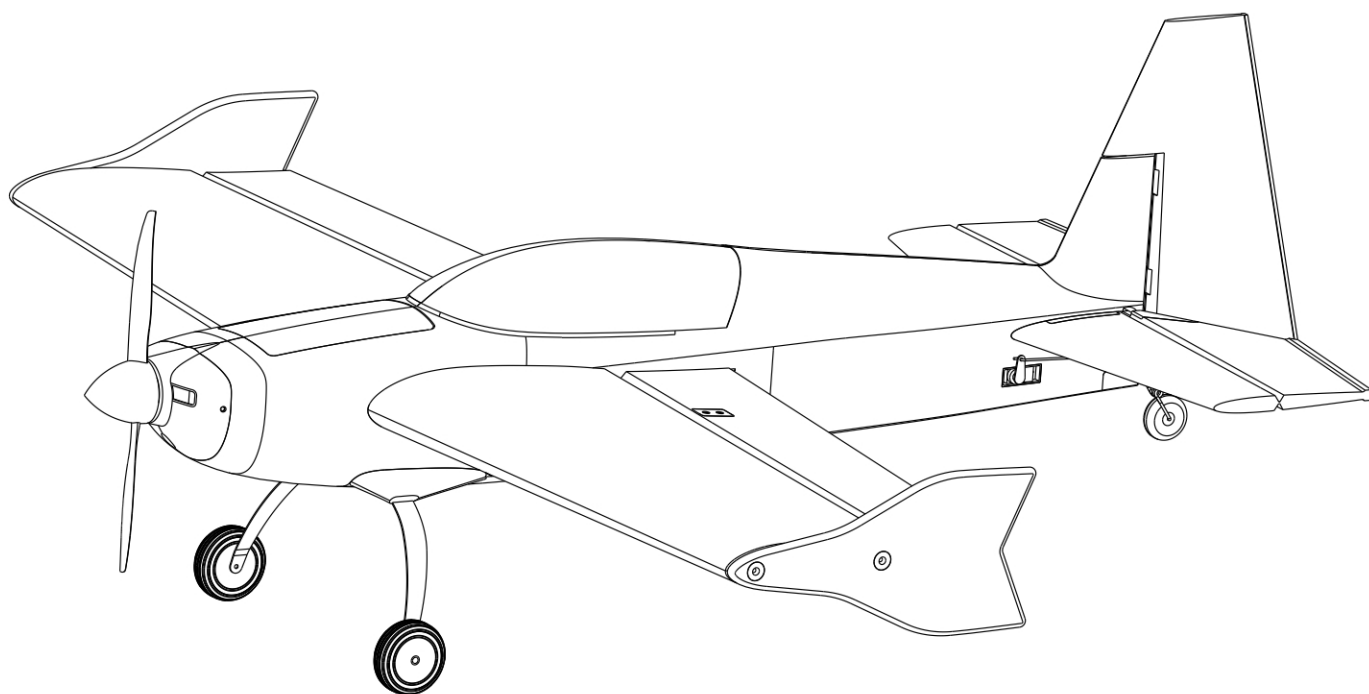




D400 3D SPORT ASSEMBLY AND DEBUGGING GUIDE

V1.0



Product S/N:

Want to learn more about the product video,
pictures, and other matters of attention Please
log in: www.hsdrc.com

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D400 3D SPORT

Introduction

Thank you so much for purchasing D400 3D sports plane, What you have now is the latest D400 3D sports plane product of HSDJETS. This model has the following features:

1.The D400's power system is equipped with 3536,1300KV brushless motors, with 40A professional brushless ESC, driven by 3s, 2200mAh, lipo batteries, generating strong power, making the D400 have a powerful source of power.

2.The D400 is equipped with four metal gear digital servos, which can provide higher handling accuracy and faster response speed, bid farewell to the gear slip issue, now is large torque, strong and durable, making the 3D flight more accurate and smooth.

3.Through the thick double convex wing type and low wing loading design, coupled with strong power, which makes the model has excellent flight performance and can easily and accurately complete the classic 3D acrobatic maneuver.

4.The D400 adopts a hollow main wing design, pre-buried carbon rod and wing rib in the main wing, and uses 52 times EPO foaming. Under the condition of ensuring the strength of the main wing structure, the

overall weight of the aircraft is greatly reduced and the flight is more flexible.

5.D400's ailerons, elevators, and rudders are all designed with a large rudder surface that meets industry standards. The larger the rudder surface, the better the rudder effect, and it is easier to control 3D acrobatic maneuver.

6.In order to save the player's assembly time, the D400's propeller and rear landing gear have been installed in advance in the factory.

7.D400 wingtip is design to a small wing, increase crosswise stability, so that side flying and rolling and other acrobatic maneuvers is more in place more ornamental.

8.Battery hatch cover and equipment hatch cover are fixed by pressing clamp, which can be opened quickly and maintained conveniently.

9.The wing and horizontal tail of the D400 are designed with a clasp style, screw free installation, and can be quickly assembled in about 10 minutes.

We believe that D400 3D sports plane will bring you excellent flight. Before starting, please read our manual carefully.

Note



This is not a toy, it has the potentially dangerous, not for children under 14 years. Young people under the age of 14 should only be permitted to operate the model under the instruction and supervision of an adult. Please keep these instructions for further reference after completing model assembly.

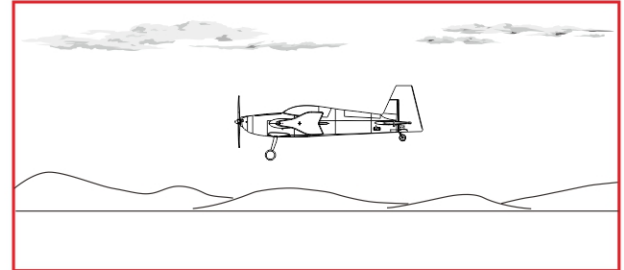
Important hints

1. Operator should have a certain experience, beginners should operate under the guidance of professional players;
2. Before install, please read through the instructions carefully and operate strictly under instructions;
3. Cause of wrong operation, HSDJETS and its vendors will not be held responsible for any losses;
4. Model planes players must be on the age of 14 years old;
5. This plane used the EPO material with surface spray paint, don't use chemical to clean, otherwise it will damage;
6. Your should be careful to avoid flying in areas such as public places, high-voltage-intensive areas, near the highway, near the airport of any other place where laws and regulation clearly prohibit;
7. You can not fly in bad weather conditions such as thunderstorms, snow, and etc;
8. Model plane's battery, don't allowed to put in everywhere. Storage must ensure that there is no inflammable and explosive materials in the round of 2 meter range;
9. Damaged or scrap battery should be properly recycled, it can't discard to avoid spontaneous combustion and fire;
10. In flying field, the waste after flying should be properly handled, it can't be abandoned or burned;
11. In any case, you must ensure that the throttle is in the low position and transmitter switch on, then it can connect the li-po battery in aircraft;
12. Do not try to take planes by hand when flying or slow landing process. You must wait for landing stop and when the blades stop turning, first disconnect the power supply and than carry it;
13. Whether flying or debugging on the ground, always ensure that there is no one in front of the aircraft.

Safety Flight Instructions

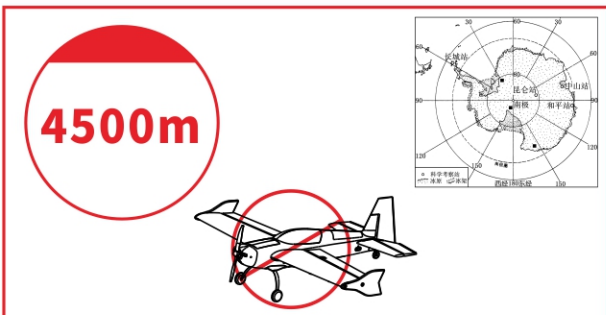
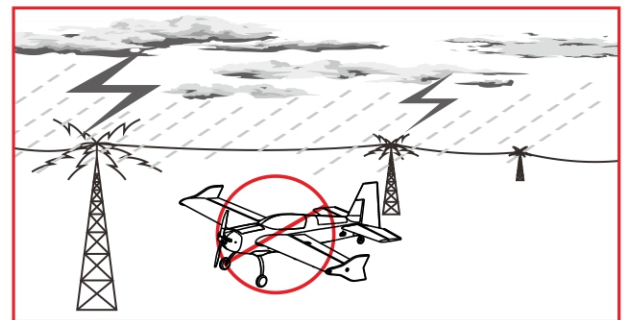
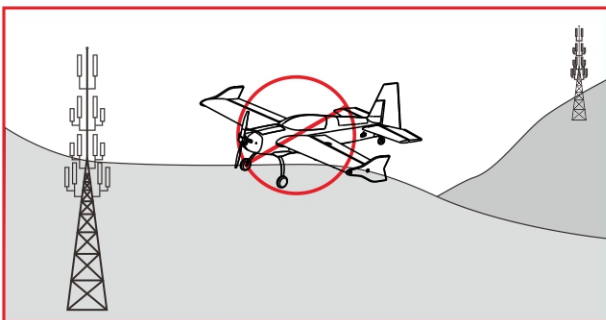
Strongly suggestion: users while enjoying the flying, please ensure that you are in a safe and reasonable environment.

1. It is better to try to choose an empty airspace and no obstacles conditions when you fly.
2. Stay away from people, animals, buildings, trees, water and other obstacles during flying.
3. Please keep the radio transmitter in your hand during the flight to control the model at any time to prevent accidents.
4. Please control the height of the aircraft to 120 meters to ensure the flight safety of the flyer and civil aviation. If you are in the area that have restrictions on flying altitude of 120 meters or less, please comply with its regulations. Make sure the model do not go out of sight and cause unnecessary accidents.



Flight environment requirements

1. Do not fly in areas such as transmission towers, communication base stations, high-voltage lines, or Wi-Fi hotspots to prevent the radio transmitter signal is interferenced.
2. Do not operate in bad weather, such as: strong winds(wind speed 10 m/s and above), raining, lightning, fog, snow, etc..
3. Flying is not recommended at altitudes above 4,500 meters and in the Arctic and Arctic circles.
4. Do not fly in airports or restricted areas under the relevant laws or regulations.



D400 3D SPORT

Assembly step instructions: packing list

1.Box opening (PNP version): Take out the fuselage components, left and right main wings, left and right horizontal tails, left and right wing tips, manual, main wing plug rod, horizontal tail plug rod, landing gear components, accessories package and other items, Check the packing quantity according to the packing item list in the manual. If there are any omissions, please contact the dealer to replace.



Fuselage assembly×1



Left main wing×1



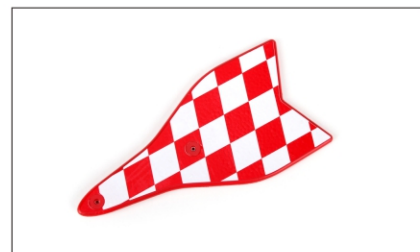
Right main wing×1



Left horizontal tail×1



Right horizontal tail×1



Left winglets×1



Right winglets×1

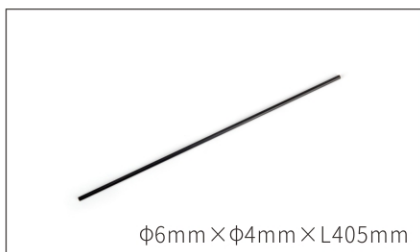


Manual×1



Φ16mm×Φ14mm×L410mm

Main wing plug rod×1



Φ6mm×Φ4mm×L405mm

Horizontal Tail Plug Rod×1



Landing gear assembly×1



Accessories package×1

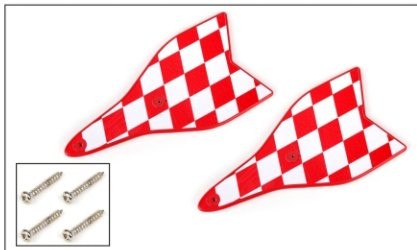
SUS304Φ1.5×90mm Bending + Teeth×1pcs
PM3×10mm×4pcs
PA2×6mm×2pcs
PA3×15mm×4pcs

Install instructions

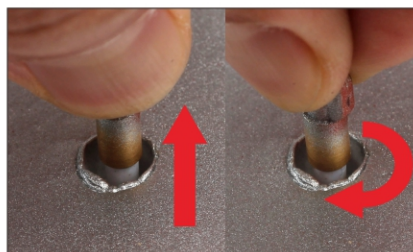
2. Install the front landing gear: Take out the front landing gear and its accessories from the PE bag, place the fuselage on a flat and clean table, and install the left and right main body of the front landing gear in the required position, and then fixed by four screws (PM3 × 10mm × 4pcs). Finally, cover the landing gear fixing plate and fix with two cover screws (PA2 × 6mm × 2pcs).



3. Install the left and right winglets: Place the left and right winglets on both sides of the left and right main wings, and then locked by four screws (PA3 × 15mm × 4pcs). Then pull out the plug pin at the bottom of the main wing and place it a little to the left or right to keep it out for backup.



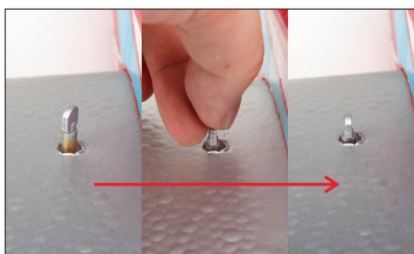
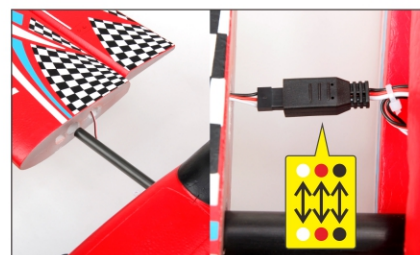
4. Pull the plug pin: Pull out a little of the pin at the bottom of the main wing and place it to the left or right to keep it out for backup.



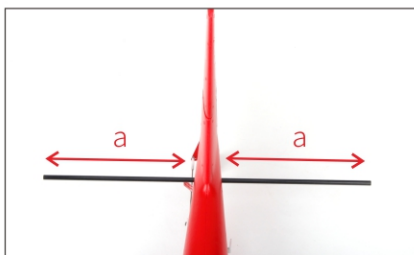
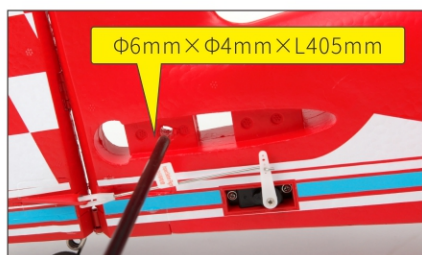
D400 3D SPORT

Install instructions

5. Install the left and right main wings: First, make the main wing socket tube ($\Phi 16\text{mm} \times \Phi 14\text{mm} \times L410\text{mm}$) to pass through the designated hole position of the fuselage, and ensuring that the length of the main wing plug pin at the left and right ends of the fuselage must be equal, and then fix the main wings. Next, make sure that the signal alignment between the main wing side and the fuselage side is color-to-color, and then insert it into the corresponding position. After it is in place, the gap between the aileron and the fuselage should be 6mm wide. Finally, put the main wing plug pin in right place, if hearing the "Ka" voice indicates that it has been installed. Note: the plug pin must be stuck in the plastic parts of main wing. After installing, can try to pull the two main wings gently to ensure that it has been jammed and will not easily pull out.



6. Install the left and right horizontal tails: First, make the horizontal tail plug rod ($\Phi 6\text{mm} \times \Phi 4\text{mm} \times L405\text{mm}$) to pass through the designated hole position of the fuselage, and ensuring that the length of the horizontal tail plug rod at the left and right ends of the fuselage must be equal, and then the left and right horizontal tail holes are aligned with the plug rod and inserted. Finally, insert the two sides of the horizontal tails at the same time. If hearing the "Ka" voice indicates that it has been installed. Note: After installing, can try to pull the two horizontal tails gently to ensure that it has been jammed and will not easily pull out.



Install instructions

7. Install the elevator control rod wire: Install the elevator control rod wire "Z" prefix in the designated hole position of the rocker arm of the elevator, and the clamp is buckled at the designated position of the rudder angle of the horizontal tail rudder surface. D400 is assembly completed.



First test and adjustment after assembly



1. Connect the receiver.
(4CH or above)



2. Connect the battery.
(3S, 2200mAh Li-Po)



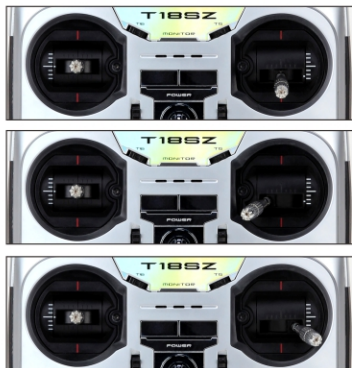
3. Open the radio transmitter.
(4CH or above)

D400 3D SPORT

First test and adjustment after assembly

4. Aileron test: Check whether the aileron action is correct

Right model throttle radio transmitter



Aileron standard action



Possible ailerons reverse action



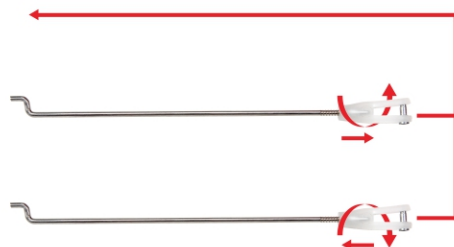
When the aileron action is opposite to the specified action, you can adjust it with the reverse setting menu of servo in the radio transmitter menu, and switch in the aileron item to the forward direction.

Note: If there is no special explanation, this user guide is introduced by default with the right model throttle radio transmitter as an example.

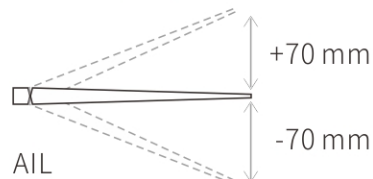
Aileron adjustment: After the setting, the standard position of the rudder surface will be adjusted. The aileron rudder surface should be in the same plane as the wing. If there is an upward or downward adjustment, it can be adjusted by physical adjustment or system adjustment;

- (1). Physical adjustment: by adjusting the length of the pull rod to change the rudder surface angle to keep it in the same plane as the wing;
- (2). System adjustment A: fine-tuning by the radio transmitter;

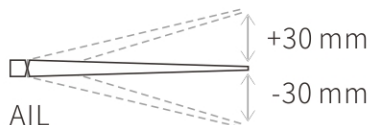
The radio transmitter is recommended to use the 100 % amount of servo, adjusting the EXP curve under the same amount of servo, it recommends to adjust to 50 % EXP value in the first time; Can adjust according to the personal operating habits.



The suggest servo amount to senior players:



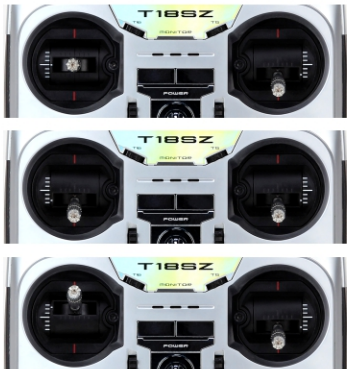
The suggest servo amount to beginners:



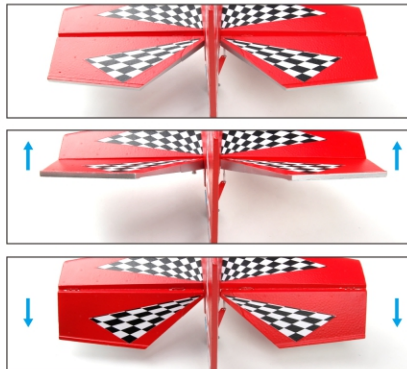
First test and adjustment after assembly

5. Elevation test: Check whether the elevate action is correct

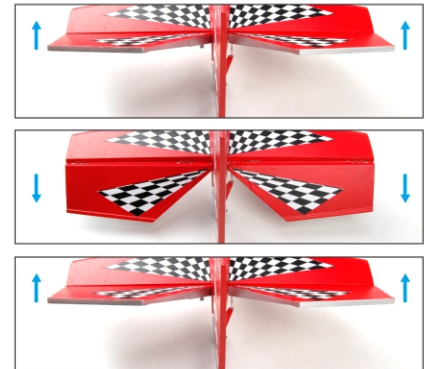
Right model throttle radio transmitter



Elevation standard action



Possible elevation reverse action



When the elevate action is opposite to the specified action, you can adjust it with the reverse setting menu of servo in the radio transmitter menu, and switch in the elevate item to the forward direction.

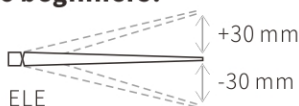
Elevation adjustment: After the setting, the standard position of the rudder surface will be adjusted. The elevate rudder surface should be in the same plane as the horizontal tail. If there is an upward or downward adjustment, it can be adjusted by physical adjustment or system adjustment;

- (1). Physical adjustment: by adjusting the length of the pull rod to change the rudder surface angle to keep it in the same plane as the wing;
- (2). System adjustment A: fine-tuning by the radio transmitter;

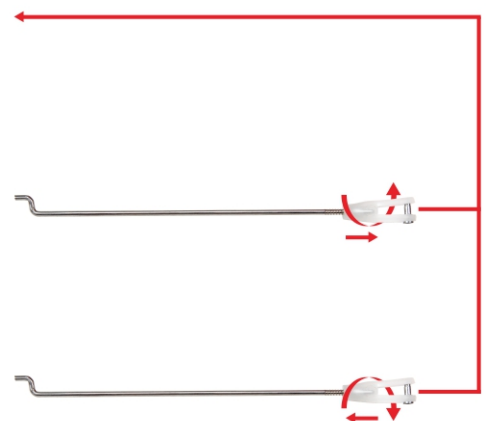
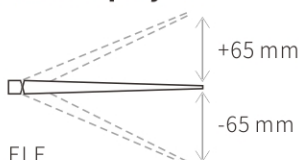
The radio transmitter is recommended to use the 100 % amount of servo, adjusting the EXP curve under the same amount of servo, it recommends to adjust to 50 % EXP value in the first time; Can adjust according to the personal operating habits.



The suggest servo amount to beginners:



The suggest servo amount to senior players:



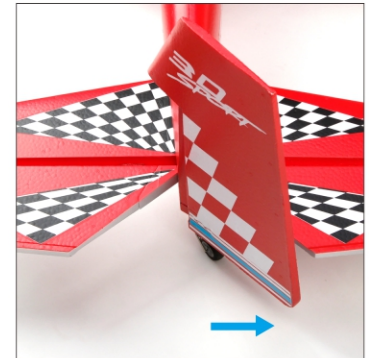
D400 3D SPORT

First test and adjustment after assembly

6. Direction test: Check whether the direction action is correct

Note: If there is no special explanation, this user guide is introduced by default with the right model throttle radio transmitter as an example.

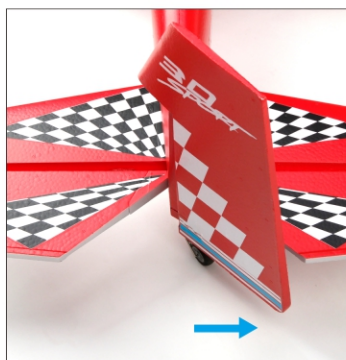
Direction standard action



Right model throttle radio transmitter



Possible direction reverse action

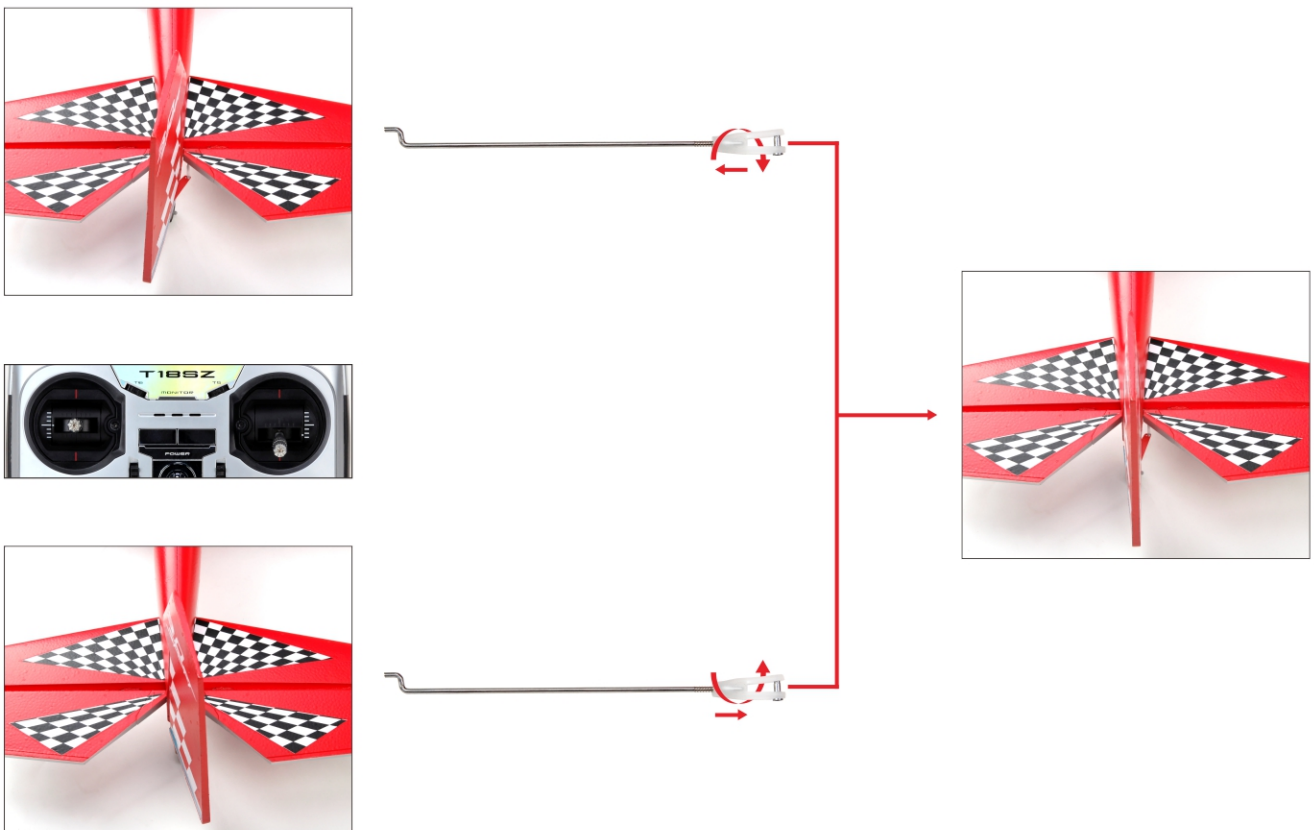


When the direction action is opposite to the specified action, you can adjust it with the reverse setting menu of direction in the radio transmitter menu, and switch in the direction item to the forward direction.

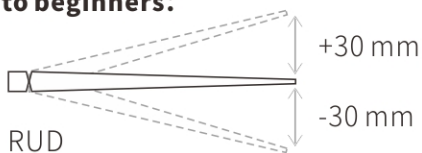
First test and adjustment after assembly

Direction adjustment: After the setting, the standard position of the rudder surface will be adjusted. The direction rudder surface should be in the same plane as the vertical tail. If there is a left or right deviation need to be adjusted to vertical center, it can be adjusted by physical adjustment or system adjustment;

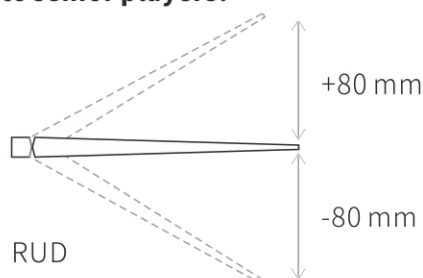
- (1). Physical adjustment: by adjusting the length of the pull rod to change the rudder surface angle to keep it in the same plane as the wing;
- (2). System adjustment A: fine-tuning by the radio transmitter;



The suggest servo amount to beginners:



The suggest servo amount to senior players:



D400 3D SPORT

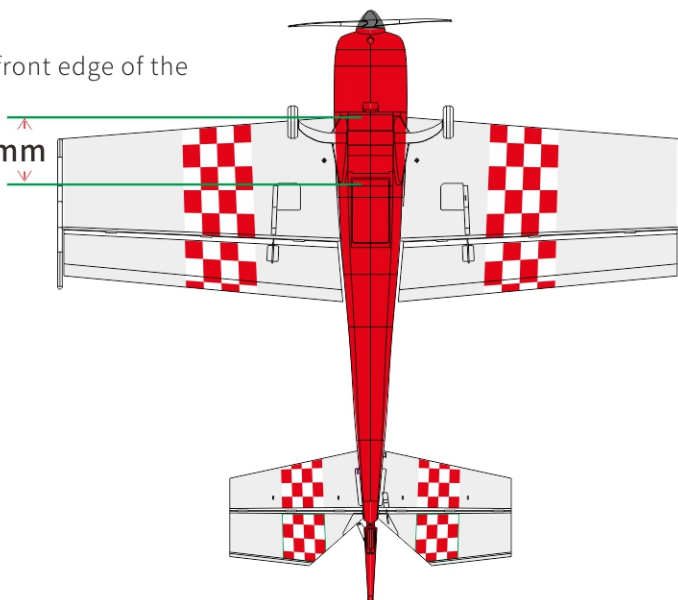
First test and adjustment after assembly

7. Pre-takeoff center of gravity test: Before the aircraft takes off, it is necessary to confirm whether the center of gravity of the aircraft is correct.

The center of gravity of the D400 is located behind the front edge of the main wing: 110-115mm.



110-115mm

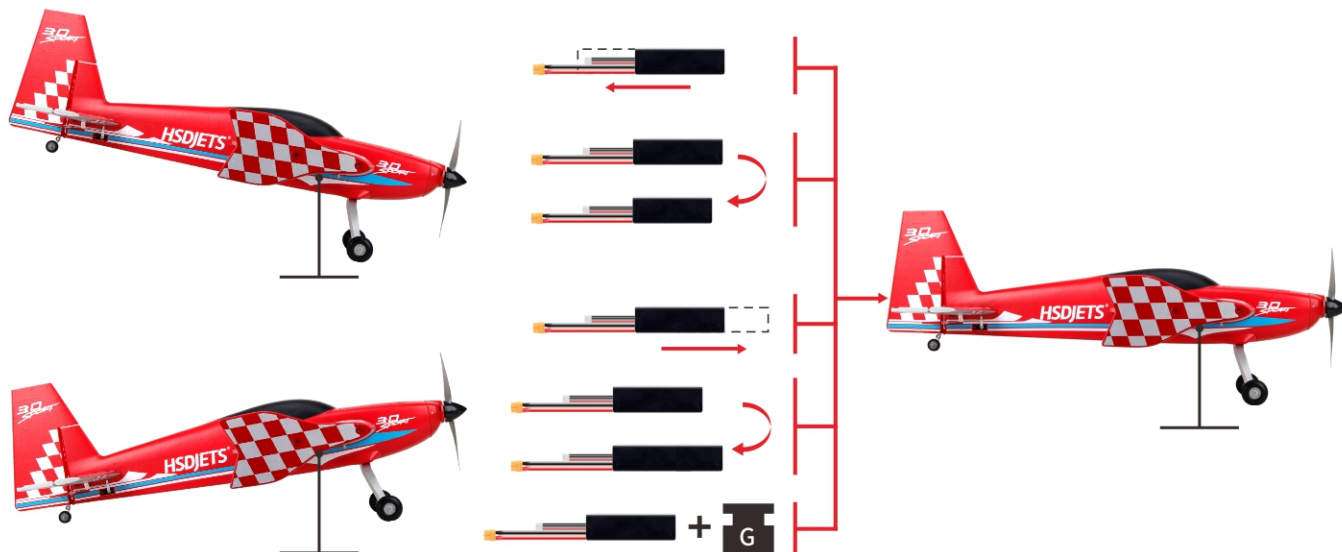


A general method for testing the center of gravity.

Center of gravity adjustment: If the center of gravity position is not correct, it must be adjusted. There are generally two situations:

A, the nose is overweight (the nose of the aircraft is drooping during the center of gravity testing on the ground), can move the battery back to the tail or replaced with a smaller capacity battery that within the scope of the aircraft's electricity demand;

B, the nose is too light (the nose of the aircraft is upwards during the center of gravity testing on the ground), move the battery forward to the nose or replaces the larger capacity battery that within the scope of the aircraft's electricity demand;



Specification and configuration

Specifications:

Wingspan	1120 mm / 44.1 in
Length	1042 mm / 41.1 in
Take off weight	1200 g / 42.33 oz
Cruising speed	About 80 km/h
Flying time	About 5 minutes.
Main wing area	32.24 dm ²
Loading of airfoil surface	37.22 g/dm ²
Main material	EPO
Body Surface Treatment	Matte environmental water-borne paint
Suitable experience level	☐ Zero basis ☐ Beginner ☒ Intermediate ☐ Advanced
Pnp assembly difficulty	☒ ★(10mins) ☐ ★(20mins) ☐ ★☆(30mins) ☐ ★★(60mins) ☐ ★★★★(120mins)
Operate suitable for age	Above 14 years of age
Working temperature	0°C ~ 40°C

Configuration:

Remote control channel	4CH+ (Selective configuration)
Motor	3536 / KV1300
ESC	40A / 2S~4S (Standard XT60 Plug)
Servo	12g×4 PCS (Metal gear digital servo)
Battery	3S / 2200 mAh Li-Po (Selective configuration)
Propeller	11×5.5 2 blade
Landing gear	rear three-point fixed landing gear
Aileron	Yes
Winglets	Yes
Horizontal tail	Yes
Vertical tail	Yes
Reinforced gyro	Selective configuration
Packaging	Inner box + Outer Box (with marks)

D400 3D SPORT



扫码关注，谢谢支持！

🌐 www.hsdr.com www.hsdgo.com

✉ hsd@hsdjetshuangai.com

📍 Company address : HSD Industry Park, Aigang Industry District, Huaide, Humen Town,
Dongguan City, Guangdong Province, China (Post: 523926)

📍 Production address : HSDJETS Building F6, Standardized Factory Buildings, Xixiu Industrial Park,
Xixiu District, Anshun City, Guizhou Province, China (Post: 561099)