G06
Agriculture drone frame
Installation instruction

Attention

This product is suitable for adults over 18 years of age.Due to the following reasons, the company will not bear any responsibility for personal injury, property damage, etc. , please read the following terms carefully:

1. Obtained through abnormal channels, using non-company products or imitation products.

2. Installation, setup, and use have not been performed correctly in accordance with this user manual.

3. Self-refitting and replacement of parts or accessories not produced by our company, causing damage to the aircraft due to poor operation .

4. The user controls the aircraft while under the influence of alcohol, drugs, or physical or mental condition.

5. Property loss and personal injury caused by the operator's subjective intentional or improper operation.

6. This product runs poorly due to the natural aging and wear of aircraft parts.

7. Use this product in a more severe and applicable environment than marked on this product.

8. Users use this product when visibility is insufficient and their sight is blocked. 。

9. Users use this product in government air control areas, no-fly zones, etc.

  10. Product damage caused by abnormal use.

AboutG06

G06 is a small plant protection drone solution specially designed for light-weight operation needs. The effective capacity is 6 L. It uses a quick-release tank+ battery. The body is compact and foldable. It can be equipped with   radar and FPV camera. It is the first choice for entry-level plant protection drones.It uses a three-segment fuselage layout design, a front flight control Chinese medicine box and a rear battery. The structure is compact and the shape is unique. The flat rectangular layout plan extends the arm to both sides and extends the nozzle spacing to the greatest extent, thereby increasing the spray Breadth.The quick-release tank + battery design can realize quick drug and battery replacement. It is easy to operate, saves time and effort, has a compact body, and can also be quickly folded for convenient transportation.The whole machine adopts modular design, each component can be quickly disassembled and replaced, which is convenient for maintenance.The optional extended rod nozzle can effectively reduce the drift of mist droplets, and the soft silicone connection at the root can avoid the nozzle from breaking when impacted by external forces. The optional FPV camera meets the visualization needs of long-distance operations and makes flight more reliable.

At the same time, a fixed-height radar installation location is reserved, and millimeter-wave radar can be selected to achieve a more accurate height-fixing imitation effect.

You can get the latest information on the EFT official website
Website：www.effort-tech.com

Contents

Part item

① Front cover

② Frame

③ Water pump and imitation radar support

④ Extension rod nozzle (silicone)

⑤ Landing gear

⑥ 6LQuick release tank

⑦ Back cover

⑧ Battery compartment

⑨ Folding arms

⑩ X6 motor set

⚠ **Important notes**

● **Please do not violently assemble during the assembly process, if you are in trouble, you can call 0551-65536542**

● **When installing the hose, do not bend it excessively, otherwise it will cause creases and affect the spraying effect.**

● **Be sure to connect the aircraft power supply after completing all installation and connection.**

Installation Please prepare medium-strength screw glue when installing. First complete the unpacking inspection, and then install the landing gear, arm, motor system, and spray system. If there are other options, install the options.

Unboxing inspection

1、EFT provides users with the following documents

2、 'Product Installation Instructions'

It is recommended that users use the "Product Packing List" to check and carefully check whether the items are missing or damaged. If there is any problem, please contact our company in time. Read the "Product Installation Instructions" carefully, follow the instructions to complete the installation step by step, and carefully read the relevant precautions.

Landing gear installation

1.Flip the frame

2. , Install the fixed parts mount on the landing gear

图 1

图 2

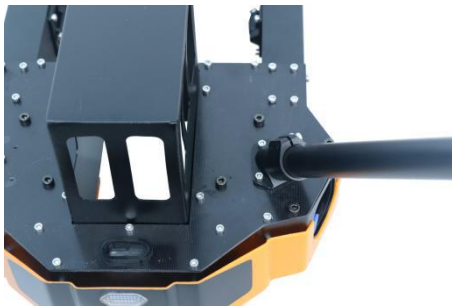3.Align the landing gear with a fixed position on the bottom of the frame .

图 3

图 4

4.Install M3*8 screws, then turn over the frame

图 5

图 6

Arms installation

Note： The installation of the arm requires the removal of some parts of the fuselage. Please pay attention to the installation position of the removed parts to facilitate the recovery later.

1、Remove the front cover

图 1

2、Remove the back cover

图 2

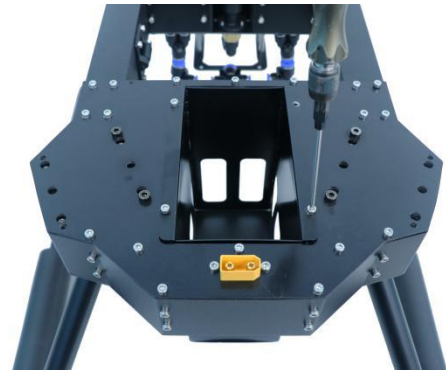3、Remove the upper carbon plate

图 3

4、Remove the battery box

图 4

⚠ **Note:** When installing the arm, pay attention to the folding direction, and place the reserved hole of the water pipe downward.

1、The arm passes through the arm tube clamp, and then locks after reaching the limit screw.

图 1

图 2

2、Install the arm on the frame in the folding direction as shown below,
Use the M3*10 screws that come with the body to fix it.

3、Install the four arms on the frame.

图 3

图 4

Motor installation

This manual uses the Haoying X6 motor. It is recommended to install the propeller after the aircraft performance is adjusted.

1. Put the motor harness into the snakeskin mesh tube, weld the XT60 male , pay attention to distinguish the positive and negative poles. (It is recommended to use a 10mm heat-shrinkable tube to tighten the ends of the snakeskin network tube to avoid bifurcation of the snakeskin network tube.)

图 1

图 2

2. Install the power in sequence with reference to the direction of the machine head, pass the motor through the arm as shown in Figure 3, and insert it into the reserved power supply cord. Pay attention to distinguish the CW/CCW motor. (Note: The battery compartment is in the direction of the tail)

图 3

图 4

Spray system installation

1、Use M3*16 screws to fix the extension rod nozzle, place the X6 motor seat gasket under the motor seat, and tighten the two M3*16 screws.

图 1   图 2

2、Use a 6mm water pipe to connect the extension rod nozzle, and the other end to the built-in 6-6 pneumatic head of the frame.

图 3   图 4

⚠ **Warning**

During the installation process, please pay attention to safety. EFT will not be

responsible for any injuries and losses caused by improper operation.

Appendix

Specifications

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Frame Specifications	Recommended configuration
Wheelbase : 1172mm	Motor: HobbyWing X6/6215
Expand Size : 1580*1270*475mm	Paddle: 23-24 inch folding paddle
Folded size : 605*640*475mm	ESC: 60-80A FOC
Tank capacity : 6L	Power supply voltage: 12S
Frame weight: 4.8kg (excluding spray system)	Maximum takeoff weight: 17.4kg

Buck regulator

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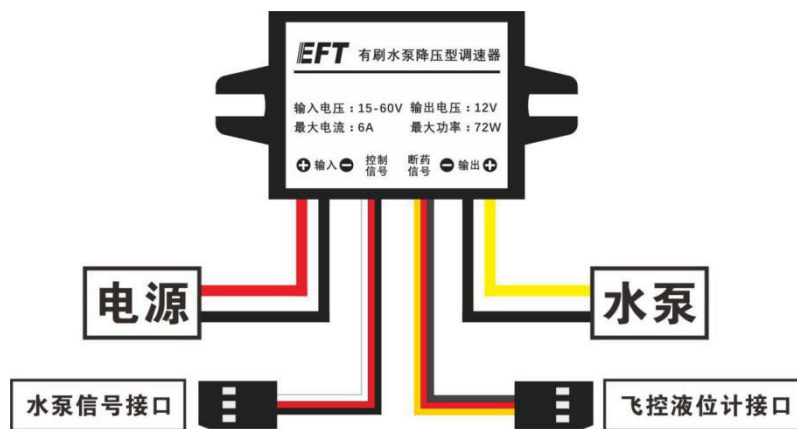| Product specification	
Size: 47*34*24mm (excluding fixed ears)	Weight: 72g
Installation hole distance: 54-60mm	Power supply voltage: 15-60V
Output voltage: 12V	Maximum current: 6A
Maximum power: 72W	Stroke range: 1120-1920µs

Drug off signal: with water-high level without

water-low level

Use method of drug breakage detection function: The drug breakage detection factory is currently limited to the use of 25W water pump. Connect the 3pin line of the drug breakage signal to the detection interface of the flight control liquid level meter. The drug breakage signal is output with high and low level signals, and water is high No water is low level, the air in the water pump needs to be exhausted before take-off to avoid misjudgment after take-off.

Wiring diagram

Light description

Indicator status	status
Red light flashes slowly (2 times/sec)	No input signal, need to connect the signal line
Red light flashes quickly (10 times/sec)	Input signal error, signal travel is inconsistent
Red light always on	Input signal is normal, the pump is off
Yellow light is always on	Water shortage reminder, medicine break signal output low level
Green light always on	There is water in the water tank, and the medicine-breaking signal outputs a high level

* If you use a brushless pump, you need to know the relevant information of the brushless pump step-down speed governor, please contact our company in time.

More product supports

EFT official website: : www.effort-tech.com

EFT WeChat public account：

This manual is subject to update without notice.

If you have any questions or suggestions about the manual, please contact us through the following methods.

Telephone: 0551-65536542

Contact email: effort_tech@163.com