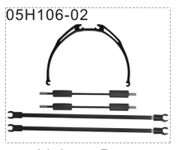
AEROSKY

05H106

DIMENSION : 600mm (23.62 inches)
HEIGHT : 310mm (12.2 inches)
WEIGHT : 1150g (40.56 oz)
BATTERY : 14.8V Lithium Polymer Battery
POWER SYSTEM : Outrunner Brushless Motor
RC SYSTEM : 6 Channel And 4 Brushless ESC

Part List


05H106-01
Frame Leg


05H106-02
Linkage Parts


05H106-03
Battery Fixed Part


05H106-04
Control Board


05H106-05
Propeller


05H106-06
Fixed Parts

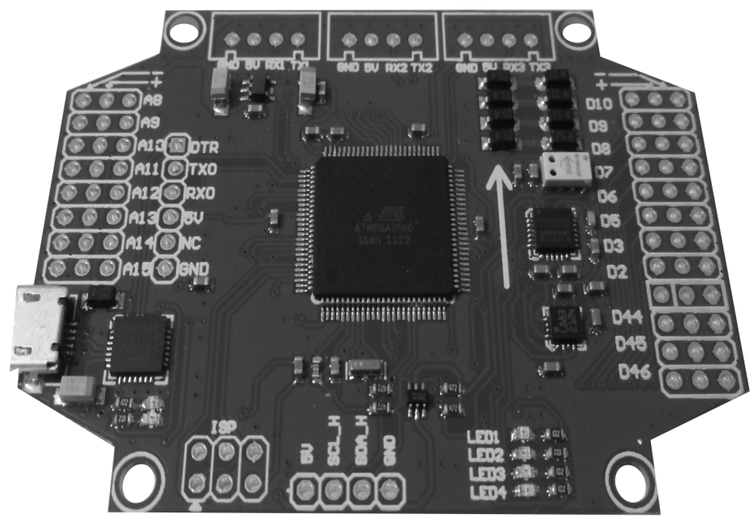

05H106-07
Motor


05H106-08
ESC


05H106-09
Radio


05H106-10
Receiver

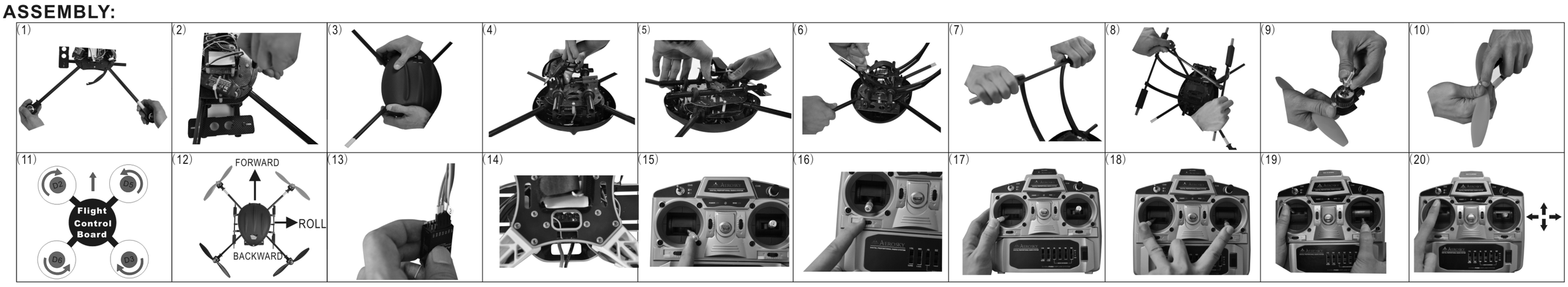

05H106-11
LiPo Battery



Specification:

CPU	: Atmega2560	A8: Throttle	A12: AUX1	D44: PTZ PITCH SERVO
GYRO&ACC	: MPU6050	A9: Aileron	A13: AUX2	D45: PTZ ROLL SERVO
MAG	: HMC5883	A10: Elevator	A14: AUX3	D2 D3 D5 D6 D7 D8 D9 D10: ESC
Barometer	: Ms5611	A11: Rudder	A15: AUX4	
USB in board				

ASSEMBLY:



(1) Expand the carbon frame.
(2) Secure the carbon frame.
(3) Install the canopy cover.
(4)(5) Assemble the battery compartment.
(6)(7)(8) Assemble the landing gear.
(9) Install the motor adaptor.
(10) Install the propeller.

PROPELLER:
Install and tightly secure the propellers according to the diagram (Fig.11)

FLY MODE:
The multicopter operates in “X” mode. The red legs indicate the forward direction;
the white legs indicate the backward direction (Fig. 12)

SETTING UP THE RADIO:
Use the following setting for third party radio system:
Aileron: REV, Elevator: NOR, Rudder: REV

CONNECTING THE RECEIVER:
Connect according to the number label on the wires:
No.1: Aileron, No.2: Elevator, No.3: Throttle, No.4: Rudder, No.5: Level, No.6: Baro&Care Free (Fig.13)

CONNECTING THE BATTERY:
Place the multicopter on a flat place, connect the battery, motors should produce the “dee dee” tone, the LED should turn on, and the LED1 should flash for two seconds and turn off (indicating the multicopter is in Lock Mode). (Fig.14)

UNLOCKING THE MULTICOPTER:
You can unlock the multicopter after connecting the battery. Move the left control stick to the lower right corner, the LED1 should turn solid and propeller should turn on (indicating the multicopter is in the Unlock Mode). You can push the throttle slowly to let the multicopter takes off. If unlock fails, adjust the direction trimming and unlock again (Fig.15)

LOCKING THE MULTICOPTER:
For safety, please lock the multicopter after each operation. Move the left control stick to the lower left corner (Fig. 17).
The LED1 should turn off (indicating the multicopter is in the Lock Mode).

ADJUSTING THE AUTO STABLIZED FLIGHT SYSTEM:
If the multicopter does not fly stable, use the following steps to adjust the auto stabilized flight system.
Place the multicopter on a flat surface.

Adjusting the gyro:
1) Put the multicopter in lock mode;
2) Move the left control stick to the lower left corner position and the right control stick to the lower center position. The LED1 should flash for 5 seconds (indicating the auto stabilized flight system is calibrating). (Fig.18)

Adjusting the ACC:
1) Put the multicopter in lock mode.
2) Move the left control stick to the upper left corner position and the right control stick to the lower center position. The LED1 should flash for 5 seconds (indicating the auto stabilized flight system is calibrating). (Fig.19)

Adjusting the control stick center position:
1) Put the multicopter in lock mode
2) Move the left control stick to the upper center position and the right control stick to the maximum position of all directions. The LED1 should keep flashing.
3) Let the right control stick back to the center position, the LED1 should stop flashing. Calibration completed. (Fig.20)

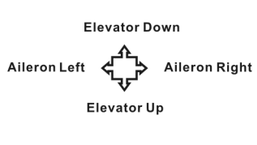
CH 5 (AUX1) Maintain flying level automatically
Set the AUX1 control on an on/off toggle switch.
"-100": onlock
“+100": unlock
Switch to onlock mode, put the elevator and aileron control stick on the center position, the multicopter should maintain flying level automatically.

CH 6 (AUX2) Baro & CareFree (Simple)
In Carefree(Simple) mode, the multicopter always flies according to the compass direction that is set at the launching position, not your control orientation. If you launch the multicopter facing North as the forward direction, North is always the forward direction for the control stick. You don't need to worry about the orientation of the multicopter.
Set the AUX2 control on a three stages toggle switch.
"-100": Baro&Care Free on
"0" : Baro on
"+100" : Baro&Care Free off
The multicopter should maintain the flying height at the position you turn the Baro mode on. The throttle control should react slowly to input at this time (this feature can be affected by weather, power level, and wind).
The multipcopter should fly according to compass direction when the carefree mode is on.

Connecting the PTZ
D44: PTZ pitch servo.
D45: PTZ roll servo.

Remove battery cover and install 8
alkaline or rechargeable AA batteries(not provided)

ATTENTION:
A. Turn off power before installing batteries.
B. Only use the same type of battery, do not mix brand type.
C. Replace all batteries at the same time with new ones.
D. Do not mix old and new batteries.



(Mode II, North/South America).

AeroSky guarantees this product to be free of manufacturing faults and material defects. This product has been checked and fine tuned individually by professional pilot and quality control pilot. The warranty does not cover any component parts damaged by use and modification. Please visit http://www.aeroskyrc.com for updated product information.

This product is not a toy. It is not recommended for children under 14 years old and any minor should be accompanied by an adult when operating. This product is a precision machine that requires proper assembly and setup to avoid accidents. Failure to take caution when operating this product may result in serious injury or property damage. It is the owner’s responsibility to operate this product in a safe manner. Manufacturer and its distributors are not responsible in any way for any and all bodily injury(s) and/or property damage that may occur from the use of or caused by in any way of this product.

AEROSKY
MADE IN CHINA

Charge the Li-Po battery pack

Do not charge battery in house, garage, and vehicle. Disconnect the battery from the charger when the indicator light on the charger turns from red to green. Do not charge the battery unattended at all time.

Lithium Polymer (LiPo) Battery Warnings

- Never charge a lithium polymer battery with a charger designed for NiCd, NiMH, or any other type of battery chemistry. Use only charger designed for LiPo battery.
- Do not leave LiPo battery unattended during charging.
- Do not overcharge the battery.
- Always place the battery on a fire resistant surface or container alone when charging.
- Always put the LiPo battery inside a charging protection container while charging.
- Do not allow LiPo cells to overheat at any time. Cells which reach greater than 140 Fahrenheit (60°C) will usually become damaged and will catch fire.
- Do not allow LiPo cells on or near combustible materials including paper, plastic, carpets, vinyl, leather, and wood, inside an R/C model or full size automobile.
- Do not over discharge LiPo; doing so will damage the battery.
- Do not expose LiPo cell to water or moisture at any time.
- Do not store battery near open flame or heater.
- Do not assemble LiPo cells or pre-assembled packs together with other LiPo cells or packs.
- Always store LiPo battery in a secure location away from children.
- Always remove the LiPo battery if model is involved in any kind of crash. Carefully inspect the battery and connectors for even the smallest damage. CAUTION: cells may be hot!
- Do not allow the electrolyte to get into eyes or on skin. Wash affected areas immediately if they come into contact with electrolyte. Do not alter or modify connectors or wires of a LiPo battery pack.
- Always inspect the condition of the battery before charging and operating.
- Do not short circuit the LiPo battery.
- Do not have contact with a leaky/damaged battery directly.
- Do not charge battery out of recommended temperature rang (0°C-45°C)

- The product is not intended for those under 14 years of age without proper adult supervision. The product is not a toy. It is a precision machine requiring proper assembly and setup to avoid accidents and it is the responsibility of the owner to operate this product in a safe manner as it can cause serious personal injury and damage to property due to carelessness or misuse.

- The spinning rotors on this product can be dangerous! When operating/flying, always be aware of the spinning rotors. Be careful not to let them come close to your body, other people or loose clothing. Keep your hands, fingers and any articles of clothing away from the rotors.

- Do not attempt to disassemble or modify any of the product components without the assistance of an experienced RC user.

- Only use the correct type of battery to operate. Using any wrong type of battery will damage the product and possibly make it dangerous to operate.

- The motor(s) may get hot during use. Always allow 10-15 minutes between each flight for the motor to cool down. This will prolong the life of your product.

- Choose an appropriate operating site consisting of flat, smooth ground, and clear open field. Do not operate near buildings, high voltage cable lines, or trees to ensure safety operation. Operate in safe area only, away from other people. RC models are prone to accidents, failures, and crashes due to a variety of reasons including, lack of maintenance, pilot error, and radio interference. Pilots are responsible for their actions and damage or injury occurring during the operation.

- Do not operate in inclement weather, such as rain, wind, snow and darkness.

- The product is composed of precision electrical components. It is critical to keep the product away from moisture and other contaminants. Do not allow them to get wet. Electrical damage may occur that could affect safe operation.

- After each use, always allow the battery to cool down before recharging. When charging the battery pack, do not overcharge! If batteries get hot during charging, discontinue charging immediately and disconnect the battery from the charger. Never leave battery unattended while charging. If you are unsure of how to charge this battery, please seek the advice of experienced RC users. Never let children charge the battery without adult supervision.

- Always turn on the transmitter before connecting the battery on the model. When turning off the model, always disconnect the battery first, and then turn off the transmitter. If the order is reversed, the model may become uncontrollable and cause serious damage.

- If you are in trouble of your ability to operate the model, we strongly recommend that you seek assistance from experienced RC users or join your local model flying club to gain the required knowledge and skill. As the manufacturer and distributor, we assume no liability for the use of this product.

- Before turning on your model and transmitter, please check to make sure no one else is operating under the same frequency. Frequency interference can cause your model, or other’s models to crash. The guidance provided by experienced RC users will be valuable for the assembly, tuning, trimming, and actual first flight.

- Never allow batteries to run low or you might lose control of the model.

- You should complete a successful pre-flight check of your radio equipment and model prior to each flight.

- Plastic is very susceptible to damage or deformation due to extreme heat and cold climate. Do not store the model near any source of heat such as oven or heater. Store the model indoors, in a climate-controlled, room temperature environment.