

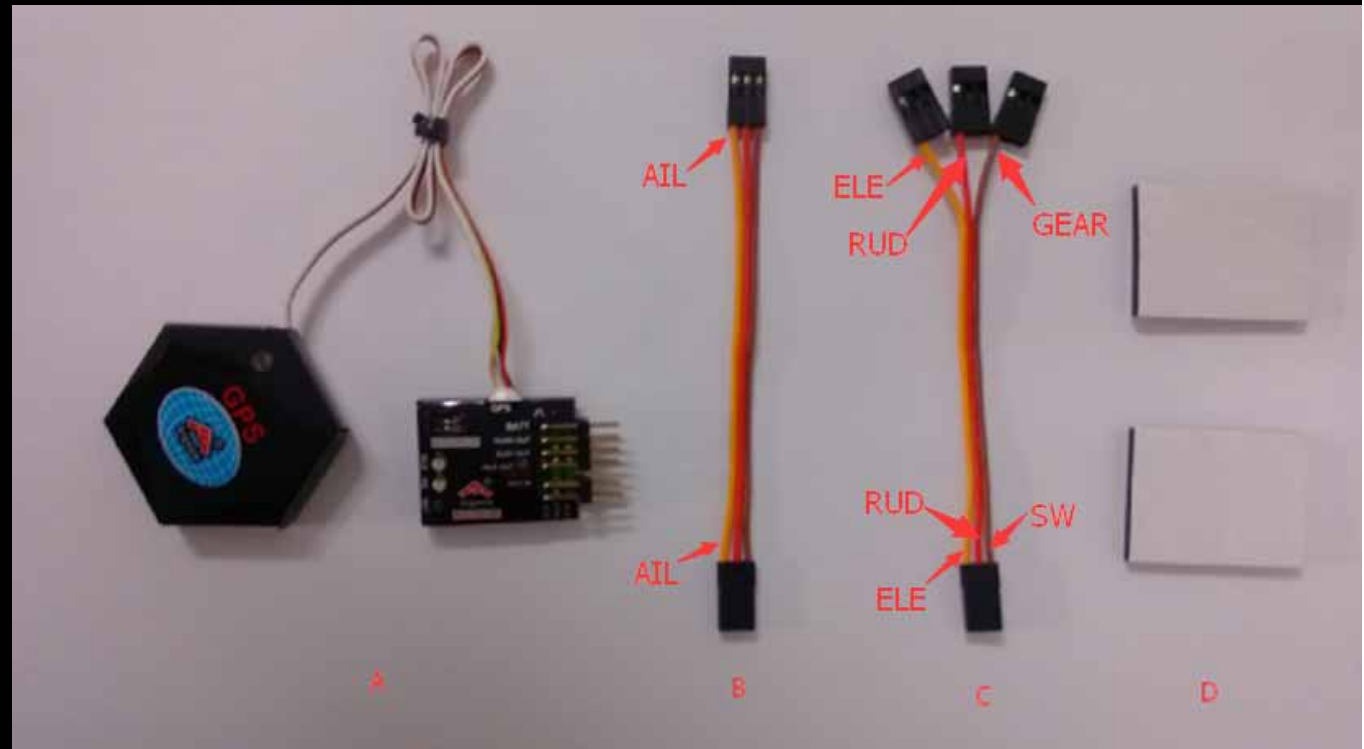


6 Axis Auto Pilot

BGL-6G-AP

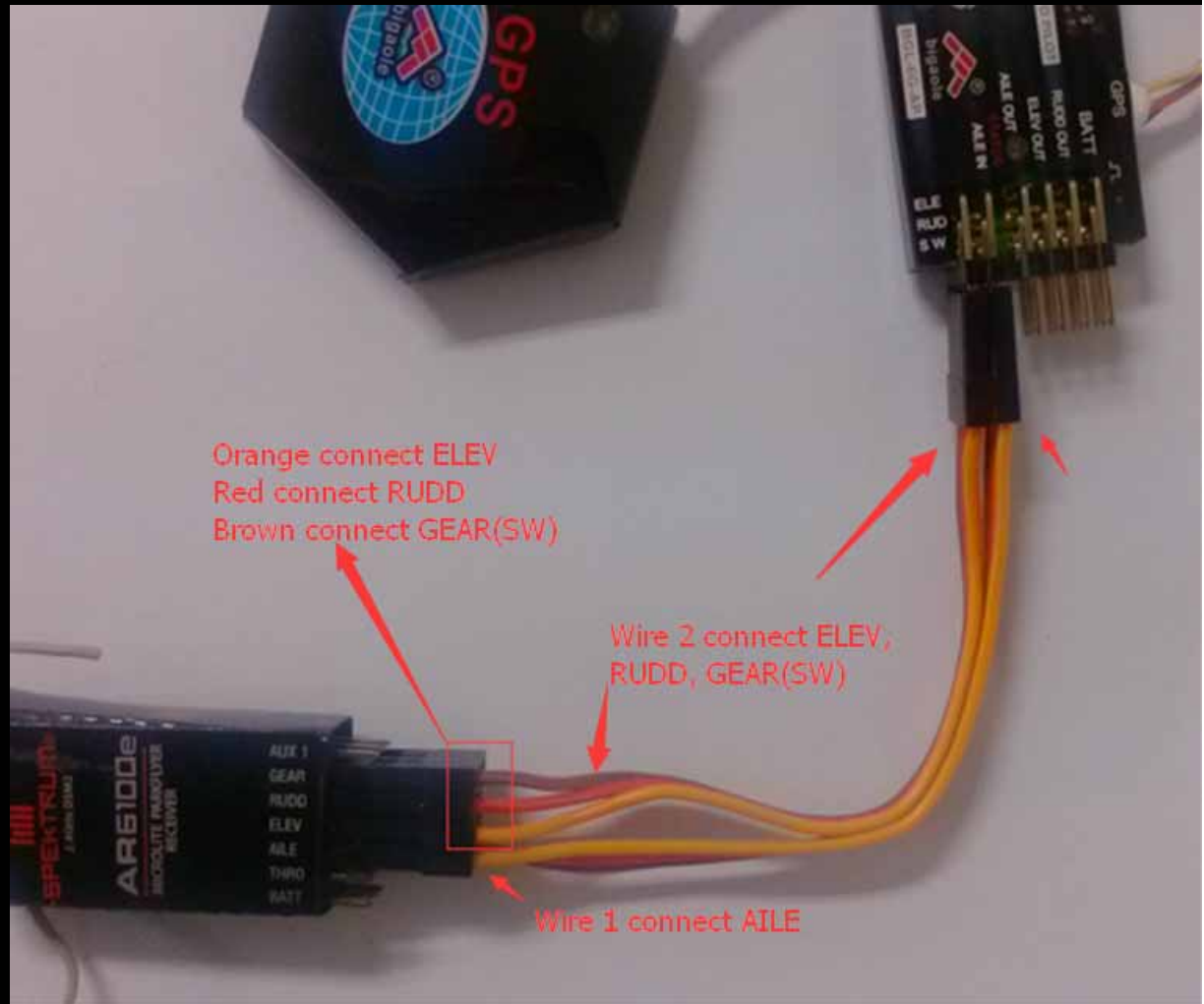
Packing list

- A. Main unit with GPS x1
- B. Wire 1 x1
- C. Wire 2 x1
- D. Double side sticky pads x2



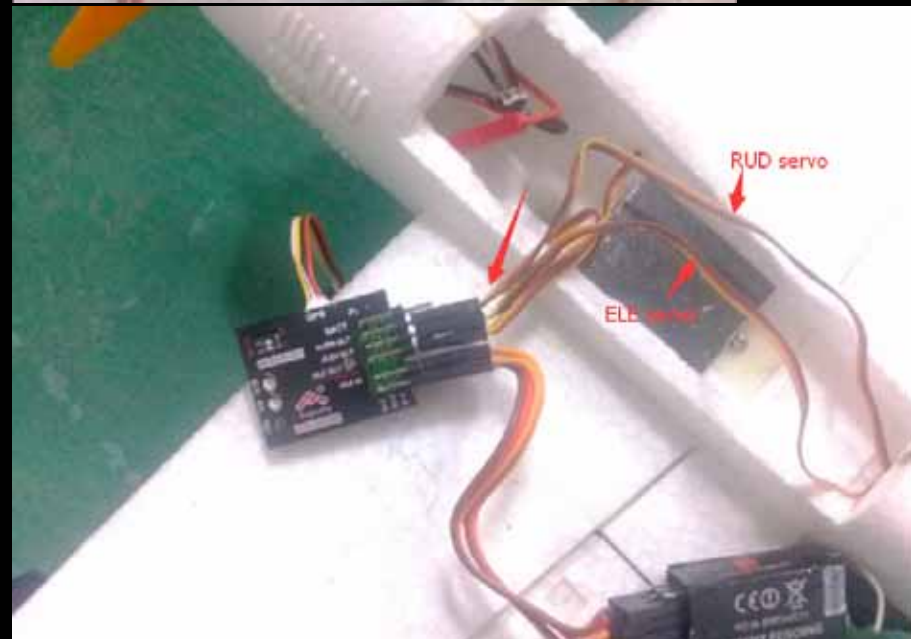
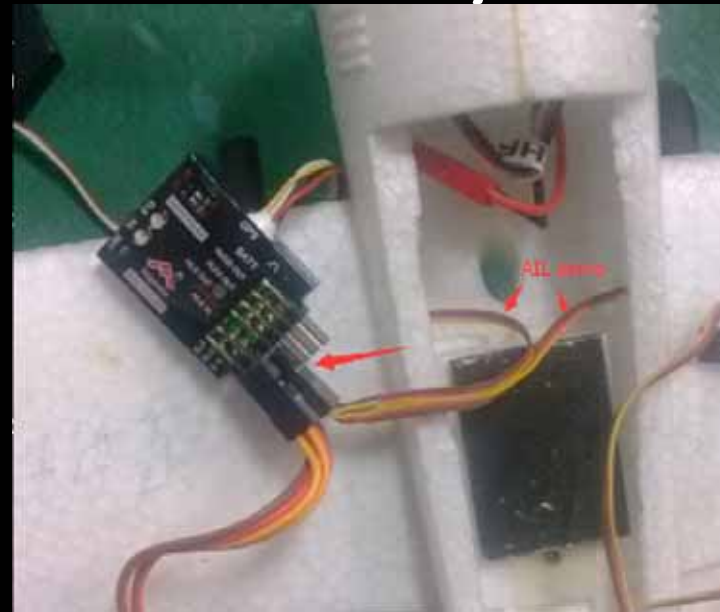
Hardware assembly

- Connect Main unit with receiver
- Connect AIL with receiver.
- Connect ELE, RUD, SW with receiver.
- Here is Spektrum receiver for your reference.



Hardware assembly

- Connect Main unit with servo
- Connect AILE OUT with AIL servo.
- Connect ELEV OUT with ELE, RUDD OUT with RUD servo.



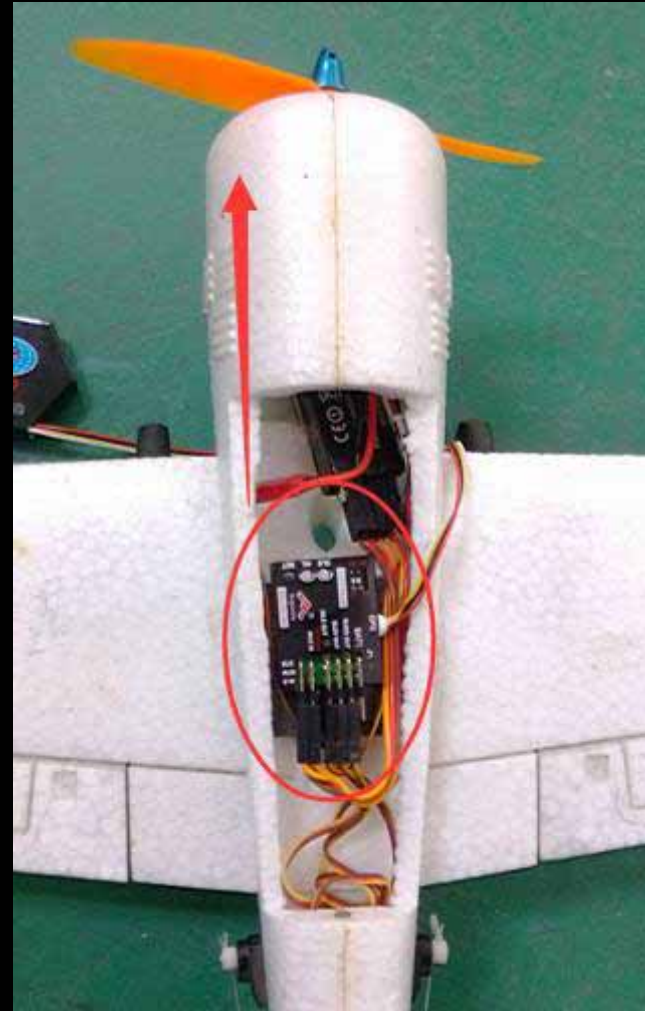
Hardware assembly

- Connect receiver with motor



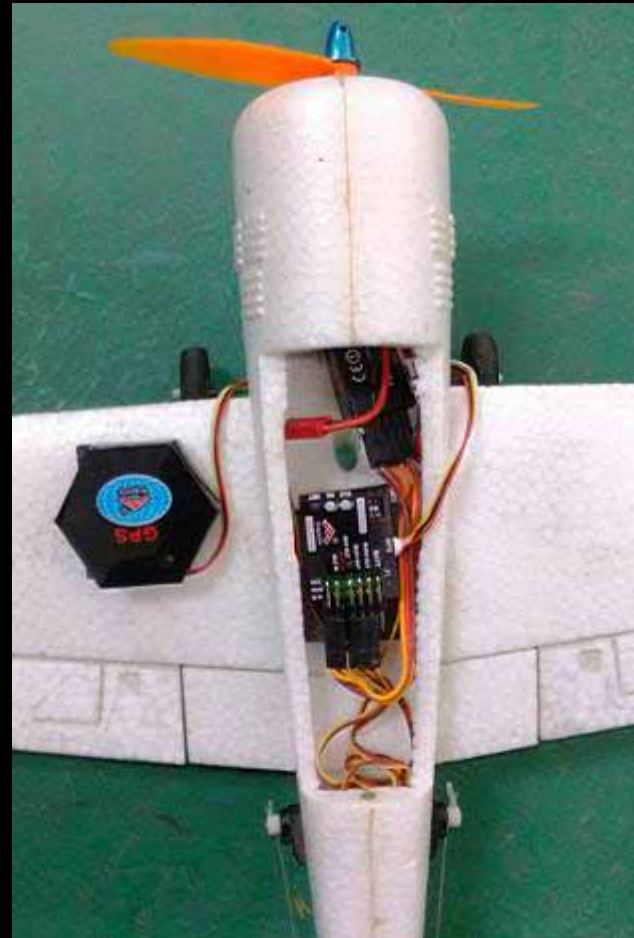
Hardware assembly

- Mount main unit on airplane with Double side sticky pads.
- Remarks: Try to keep the main unit at your aircraft's center of gravity and parallel to the aircraft body
- Pay attention to install main unit toward airplane front as picture.



Hardware assembly

- Mount GPS on airplane with Double side sticky pads.

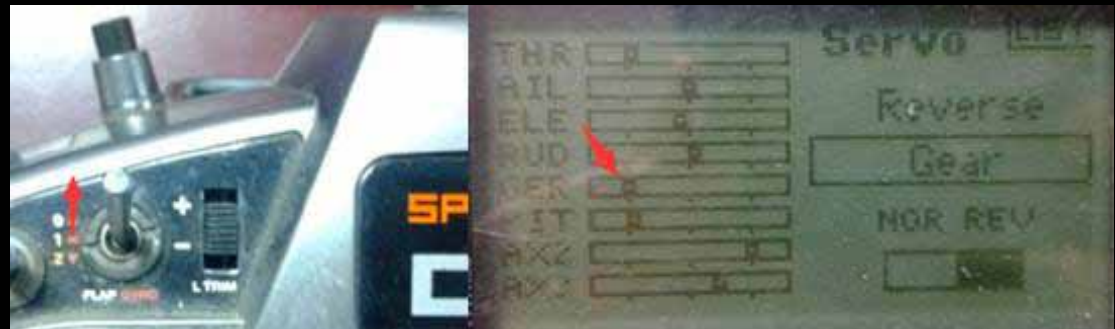


Remote Control Setting

- Turn on transmitter, create a new model.
- Set trims and sub-trims of all channels to zero.
- Close all mix-function.

Remote Control Setting

- Select a 3 position switch as CH5
- CH5, UP position, CH5 <1200US : come home automatically mode



- The picture is Spektrum transmitter for your reference.

- CH5, Medium position, 1250US < CH5 <1750US : Gyro off mode



Remote Control Setting

- Select a 3 position switch as CH5
- CH5, Down position, 1750US <CH5 : Balance mode

- The picture is Spektrum transmitter for your reference.



Adjusting Gyro and transmitter

Turn the S1,S2 switch according your airplane type.

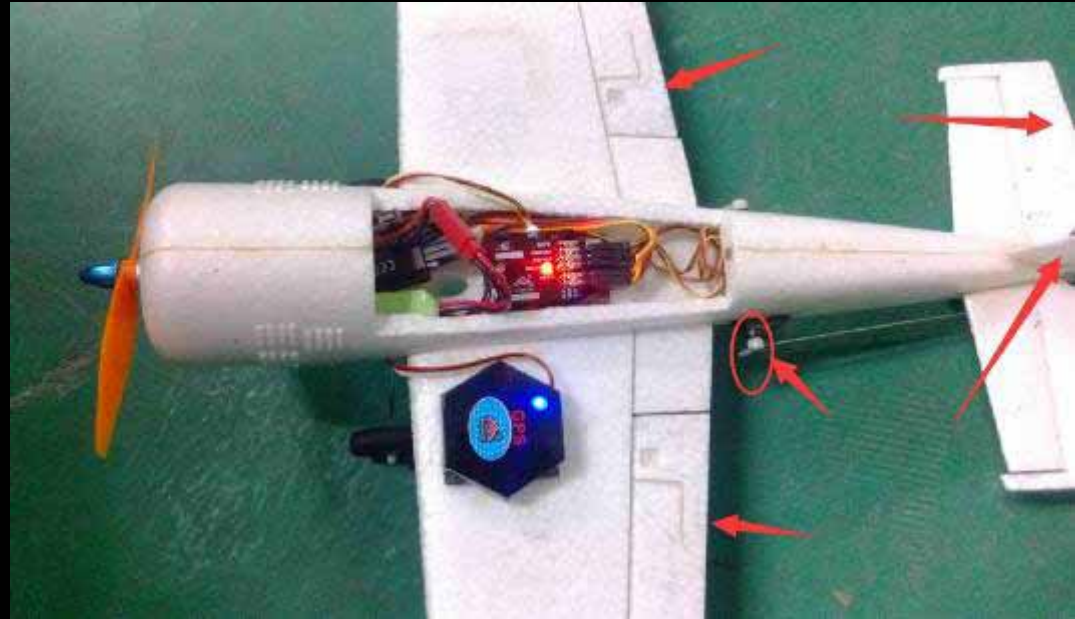
- S1,S2 both off is for Normal airplane.
- S1 off,S2 on is flying wing (Delta wing)
- S1 on, S2 off is V-tail



- Connect battery (Power on)

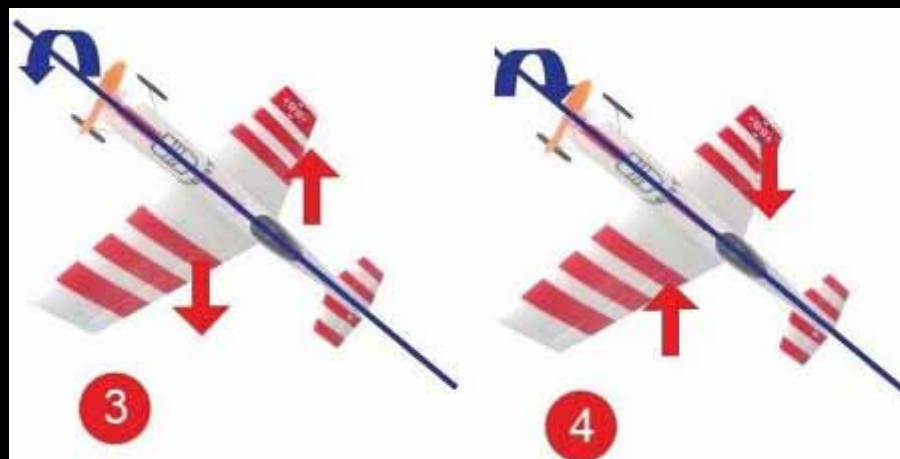
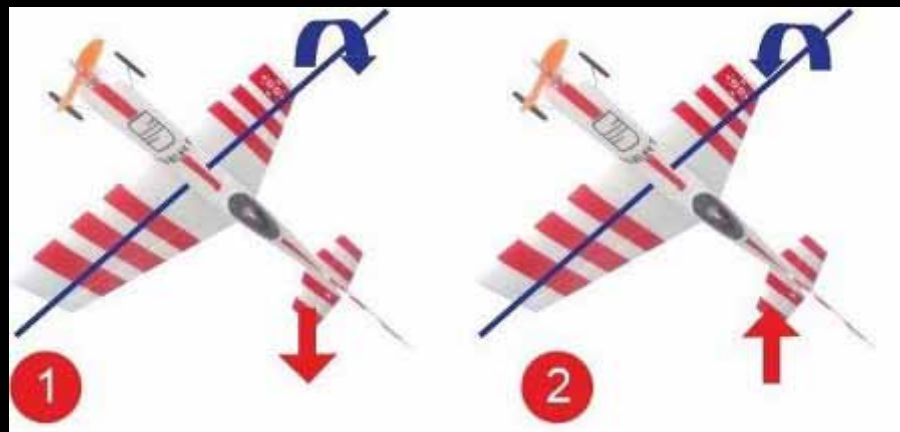
Adjusting Gyro and transmitter

- Select Gyro off mode.
(CH5 Medium position)
- check and make sure AIL, ELE, RUD surface on correct position.
- Check all the swing arm and pull rod's angle if is 90 degree.



Adjusting Gyro and transmitter

- Check gyro direction and gain sensitively.
- Select Balance mode.
(CH5 down position)
- Pick up the airplane around the pitch axis to check gain for ELE's direction if is correct and gain sensitively if is ok.
- Pick up the airplane around the roll axis to check gain for AIL's direction if is correct and gain sensitively if is ok.



Adjusting Gyro and transmitter

- Check gyro direction and sensitivity.
- Here is adjusting method:

Feedback direction: the upper part is Norm, the lower part is REV.

Gyro gain sensitivity: The gain is minimum in the center of knobs, clockwise/anti-clockwise is to increase gain.

- The right picture is the minimum gain on ELE, AIL.



Adjusting Gyro and transmitter

- Check transmitter channel direction and servo output.

Control sticker of transmitter on AIL, ELE, RUD, to see these surface move direction on airplane if is correct and the servo output if is ok.

Adjust method: can adjust by REV/Norm and D/R setting on your transmitter.

Calibration & Set return point

- Calibration

Power off.

Turn S1, S2 to “on” position.



Powered on.

Check red led on main unit:

quick flash → solid red

→ slow flash.



Calibration & Set return point

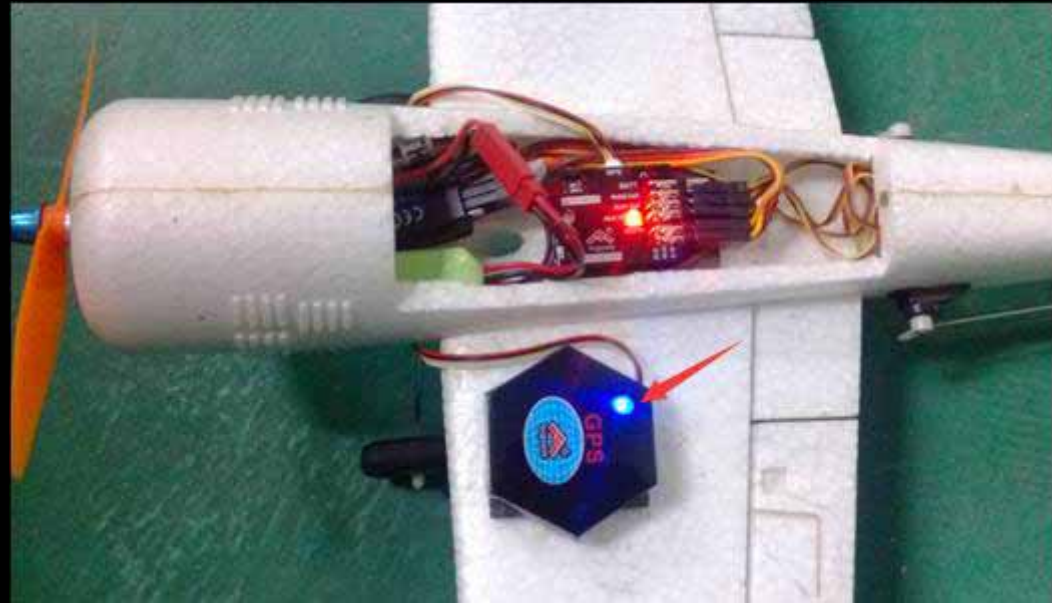
- Calibration

Check LED on GPS,
solid blue → flash.

Now calibration is finished.
(This means main unit hand shake
with GPS is successfully)

PS. GPS calibration process maybe
slower than main unit, this is
normal.

Power off now.



Calibration & Set return point

- Set return point

Turn the S1,S2 switch according your airplane type.

- S1,S2 both off is for Normal airplane.
- S1 off,S2 on is flying wing (Delta wing)
- S1 on, S2 off is V-tail



Calibration & Set return point

- Set return point

Power on.

- Red led on main unit **slow flash**.
- Blue led on GPS change from **solid blue** to **flash**.

Long press “set” button, wait red led on main unit from **slow flash** to **solid red**, release “set” button, and wait solid red led to **slow flash** again.

Remarks: when you set return point, make sure that the airplane is at a place which have good GPS signal.

After you set return point, the main unit will store this place's data, you do not need to set it again.

Now the setting of return point is finished.

You can try to fly now!



Above installation steps is for your reference, if you have any problem during your installation, please kindly contact us by service@bglmodel.com .

Thank you!