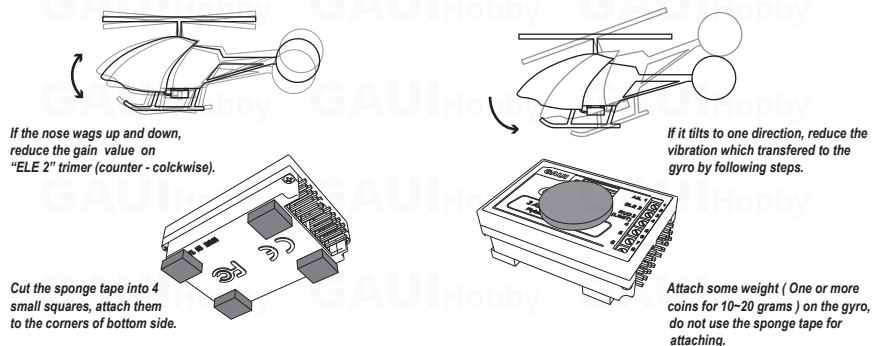


Flying Test

1. Be sure to balance your blades before flying, the vibration on the main shaft which caused by the unbalanced blades may result in a failure of swashplate gyro operation.
2. Put the heli on a level ground, turn on the power of the transmitter and receiver, since the Gyro initializes the data when the power is turned on, set the AIL, ELE, RUD sticks to the neutral position and do not move the helicopter for approximately 3 seconds until the monitor LED lights in Green, if it lights in Red, set the transmitter switch to the heading hold position.
3. Make sure the swashplate is level before take off. If it is not level, please wait for 30 seconds until it backs to level position or turn off the receiver power and back to the step 2 to initialize the swashplate to level position. If it is your first flight for the FES (Flybarless E - Stabilizer) system, we recommend setting the transmitter function "Swash AFR" for "AIL & ELE" as 50% value of a heli with flybar for initial setting. For example, if the swashplate Limit had been checked properly before the FES gyro connected, then you input the transmitter "Swash AFR" (AIL 60%)(ELE 60%)(PIT 60%) into the FES gyro, the swashplate Limit had been set and won't be changed after this step, then we recommend you set the "Swash AFR" as (AIL 30%)(ELE 30%)(PIT 60%) for your first flight, adjust the "Swash AFR" AIL or ELE value after flight for a better control.
4. Take off and hover to check that does the heli wag in any direction of 3 Axis, if it wags as nose up and down, reduce the ELE gain value by turning the "ELE 2" gain trimer counter-clockwise, if it wags left and right, reduce the AIL gain value by turning the "AIL 1" gain trimer counter-clockwise, but if the tail wags, reduce the Rudder gain value on your transmitter. Be sure to set the gain value properly in NORMAL and IDLE mode.



5. If the heli does not wag but tilt to one direction, it resulted from the vibration which caused the the failure of swashplate gyro operation, fix the problem by following steps :
 - (1) Make sure there is no any contact between gyro box and heli except the sponge tape, and all wires which connect to the gyro should not be pulled tightly that transfer the vibration from heli to Gyro.
 - (2) Change the position where the gyro installed, it should be installed away from vibration.
 - (3) Reattach the sponge tapes as shown in figure above.
 - (4) Attach some weight(one or more coins for 10-20 grams) on the gyro which may reduce the vibration, please note that do not use the sponge tape for attaching the weights, a thin tape or glue is recommended.
 - (5) Reduce the vibration of your heli can fix the problem basically.

Important :

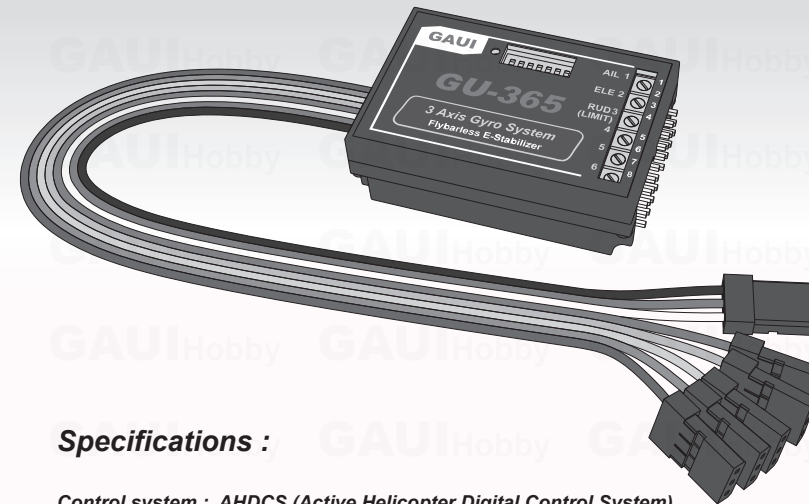
1. For the CCPM Swashplate, you may set the proper swashplate Limit by changing "Swash AFR" values before the FES gyro connected, but after the transmitter data input into the gyro, the "Swash AFR" AIL and ELE function on transmitter was changed into control the moving speed of roll and pitch. You may adjust the moving speed of roll and pitch by the transmitter function "Swash AFR" or "D / R", do not adjust the "END Point / Travel Adjust" of each servos for CCPM after the gyro was set. If it is necessary to change the "END Point / Travel Adjust" for every single servo of CCPM swashplate, be sure to reset the gyro as Step 6 on page 2.
2. For the Normal Swashplate, the operating rate for swashplate can be adjust by the transmitter function "END Point / Travel Adjust" or "D / R".
3. The speed of tail spin (Yawing Speed) is controlled by the transmitter function "END Point / Travel Volumn", and make sure that use the "RUD 3" trimer on gyro to adjust the limit of the tail pitch slider.
4. If an auxiliary tail gyro is used for tail control, disconnect the rudder servo plug from GU-365 gyro and disconnect the yellow and the green signal wires from receiver, connect the rudder servo to the auxiliary tail gyro and connect the tail gyro to receiver directly.

GUEC

GU-365

Flybarless E-Stabilizer System (FES) Instruction Manual

- Suitable for all size EP helicopters
(NA for Nitro power helicopters)



Specifications :

Control system : AHDCS (Active Helicopter Digital Control System)
Content : 3-Axis gyro
Operating voltage : 4 ~ 6V DC
Dimensions : 44.5 x 31 x 14mm
Weight : 18 g

GAUI