

LTG-2100T INFORMATION

1. Adoption of LTS-3100 Dedicated servo

It has been since Oct, 1th, 2007 that LTG-2100T with the most suited micro level dedicated servo, LTS-3100G, is sold as a combo set.

Please consider the following information as related with this.

- 1) When taking goods out of the warehouse, the servo type is set to LED #3 (standard analog mode). We recommend you to provide customers with information that it needs to be selected the servo type to LED #1 (Dedicated servo mode) in case of customers' purchasing 2100T & 3100G Combo. → Prevention of Nonsense-call
- 2) It's appropriate to set ROTATE RATE for LED 5~6# when you use micro level dedicated servo, LTS-3100G. (Default value from the factory: LED #1)
However, you can get the optimized result by selecting ROTATE RATE since there might be a little difference according to the kinds of helicopters.
- 3) It is highly recommended that the length of the SERVO HORN is corrected into about 8mm.
- 4) Recently, there's a great tendency to use the digital servo with the small electric helicopter. In this case, the total power consumption that electrical equipments consume gets pretty high and there's much probability to cause troubles owing to voltage drop when using the BEC insufficient to CURRENT CAPACITY. There should be a full consideration on these since LTS-3100G consumes more CURRENT to realize the high speed.

2. DEDICATED TAPE FOR GYRO

The performance of the 2100T Gyro can be unable to function very well since the program applied to 2100T gyro is with highly sophisticated control. The typical symptom is the drift. It happens particularly when you don't use the dedicated tape we offer. We highly recommend you make it sure to use the dedicated tape for Logitech Gyro and also notice this information to customers for their through understanding.

3. Field calibration

Field calibration is the one of the hidden functions in LTG-2100T. This is to help recover the performance of the Gyro by users' doing the simple direct correction when the gyro crashed into and accuracy and the performance of the gyro depreciate. The process of the field calibration is as follows.

- 1) Press the MENU BUTTON and turn on the power switch of the helicopter keeping pressing the MENU BUTTON. Please be sure to keep pressing the button until all the LEDs light up.
- 2) After all the LEDs light up, you can find the LED shift a few seconds later and then the LEDs make shifts in sequence repeatedly for about 3 minutes. When you find shifts on the LED getting faster, it means the calibration is almost done and all the LEDs get to flicker soon, which means all the process of the calibration is finished. Then turn the

power off.

4. Tail bouncing issue

The FIRMWARE of 2100T was designed under the condition that it goes with the high-speed servo. However, many consumers use the analog servos since it is of light-weight and small-size despite the low-speed. In this case, It is quite hard for 2100T Gyro to remove the bouncing because of the slow response of the servo.

Therefore, using the high-speed servo such as LTS-6100G, LTS-3100G can be the perfect solution to resolve the bouncing problem.

5. LTG-2100T with the NITRO helicopter

The major problem of using 2100T Gyro with the Nitro helicopters is Anti-vibration performance. It is inevitable to meet the depreciation of the performance caused by the vibration since the strong vibration which occurs in the Nitro helicopters lies beyond 2100T of the SMALL FOOTPRINT structure.

Another problem is that 2100T firmware is designed to keep pace with quick response characteristic on small helicopters and there might be a discordance of the flight characteristic when using Nitro helicopters. In other words, 2100T is the specialized gyro to small electric helicopters.

6. WAGING(HUNTING)

6. Tail Wagging

1) Fast wagging

The most typical reason is the high set gain on the radio. The high set gain has the two meanings as follows. First, It is the "Electrical-gain" with setting the high gain in the transmitter. It can be mostly settled(solved) by adjusting the gain value to be lower if the mechanical qualification of the tail drive on the helicopter is fine.

Second, It is the "Mechanical-gain" closely related to servo horn length. That is, it's the case that has tail wagging even though gain is set to be low and it is caused by the high "Mechanical-gain" with long length if the servo horn.

You can solve the problem with using the short length of servo horn.

2) SLOW WAGGING

It is the most typical symptom that occurs when the tail drive elements doesn't work smoothly. Slow wag can be removed by doing the following process.

First detach the horn of the tail servo.

Then do PUSH-PULL taking hold of the linkage rod lightly with hands and it's very important to make the least friction while doing the PUSH-PULL for the purpose of removing SLOW WAG. And it happens occasionally that the components of the tail drive doesn't work properly with developing the thermal contraction.

The tail drive should always be kept smooth and remain to be the best condition.

7. Operating Voltage

2100T hardware was designed to operate with 6V and it doesn't need to use any equipments like STEP-DOWN Reg. In the early point our product released, it was known that the maximum operating voltage of 2100T is 5.5 V but actually 2100T is capable of standing against maximum 6.0 V. And there are a lot of BECs, which are specification of 6.0 V and it can be well matched with our products.

8. Way to initialize the set values

There isn't any special way to initialize the set values and it is only possible to change the settings by re-setting the values.

9. Receiver type of SPECTRUM one (ex.DX-7)

The signal of SPECTRUM DX-7 is compatible with that of JR Receiver. Therefore, SPECTRUM DX-7 is recognized to be JR Mode by Auto-recognizing of Receiver Type.

10. Being without Auto-recognizing process of Receiver type

LTG-2100T Gyro does Auto-recognizing of Receiver type for equal control characteristic and performs the right control along with the receiver type. However, when you go without this process and use the receiver with default values on receiver type, you may feel uneasy at operating the stick. So, we highly recommend you to perform the auto-recognizing and make the gyro control the best.