



**FS-GT3**

# **GT3**

INSTRUCTION MANUAL



0101001

2.4 GHz  
channel

Digital proportional radio control system

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MODELS: FS-GT3

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## 1. INTRODUCTION

Thank you for choosing 2.4 G ratio remote control digital products, if you are the first time to use this type of products, please read this statement carefully and strictly in accordance with the requirements of operation. You could refer to the Manual if you meet any problems during the operation. Please well keep the manual after use because you might have to use it again next time. Once again, thanks for buying our products,

## 2. SERVICES

If you found any problems during the operation process, please refer to the manual. If the problem still exist, you could contact our dealers to found out the way to solve. And you could also log on to our website service center:

HTTP:WWW.FLYSKY-CH.COM

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### 3. THE SPECIAL SYMBOLS

Please pay attention to the following symbols when it appears on the manual, and read carefully.



If the operator does not operate by following the instructions, the operator may lead to serious injuries, even Mortal danger.



If the operator does not operate by following the instructions, the operator may lead to serious injuries, even Mortal danger.



If the operator does not operate by following the instructions, the operator may lead to minor injuries, but generally it will not cause serious injuries to the operator.



Prohibition



Mandatory

### 4. SAFETY GUIDES



Do not fly in bad weather such as rainy or thundering to assure the safety of you and others.



Before you fly, please make sure the movement of servos are correspond with the direction of joystick. If inconsistent, please adjust before fly.



You need to turn the throttle channel(ch3) and inching switch to the lowest before You use. Then switch on the transmitter power, finally connect the receiver.



The sequence to shut down is that turn off the receiver power first, and then the transmitter power.

If the above operations are reverse, it might lead to uncontrolled and cause Accident.



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### 5. BATTERY CHARGING NOTES

If your transmitter, receiver using a nickel-cadmium, nickel-metal hydride rechargeable battery, you have to well-check before you fly. If lack of electricity, it could happen those phenomenon like inadequate control or out of control, resulting accident. So please charge immediately when

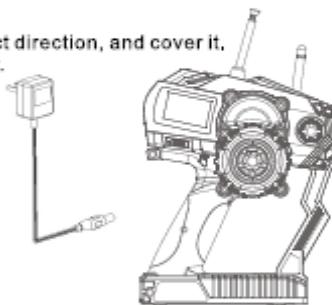


If you are using a nickel-cadmium, nickel-metal hydride batteries for recharging, please use our company dedicated charger. If the electrical current is too large and it may lead to temperature over-heated and cause fire burning accident. Please cut off the power supply immediately after recharging. Please take out the battery from the transmitter when you are not using it within a period, it is because the battery may damage the aircraft batteries, thus being exposed.



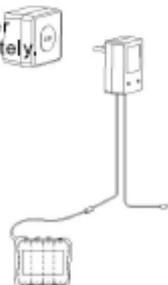
#### 5. 01 Transmitter charger:

- A. Install the battery to transmitter with correct direction, and cover it.
- B. Connect the charger to the main connector.
- C. Connect the charger to the transmitter Connector.
- D. Cut off the power supply immediately after Recharge completed.



#### 5. 02 Receiver charger:

- A. Connect the charger to the main connector.
- B. Connect the Rechargeable receiver with battery charger
- C. Recharge completed, cut off the power supply immediately.





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## 6. TRANSMITTER PARAMETERS

### Specifications:

- A. channels: 3 channels;
- B. model type: car/boat;
- C. RF power: less than 20dbm/0. 8W
- D. modulation: FM/GFSK;
- E. Code type: digital;
- F. sensitivity: 1024;
- G. LCD type: 128\*64 dot;
- H. low voltage warning: yes (less than 9W);
- I. DSC port: yes (3. 5mm);
- J. charger port: yes;
- K. power: 12vdc(1. 5aa\*8);
- L. weight: 558g;
- M. ANT length: 115/26mm (2. 4g);
- N. size: 187\*144\*288mm;
- O. color: black;
- P. certificate: CE FCC;



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## 7. RECEIVER PARAMETERS



MODEL: FS-GR3A



### Specifications:

- A. channels: 3 channels;
- B. model type: car/boat;
- C. frequency bank: 2. 4G
- D. modulation: GFSK;
- E. sensitivity: 1024;
- F. RF receiver sensitivity: -76dbm
- G. power: 4. 5-6vdc;
- H. weight: 5g;
- I. ANT length: 26mm;
- J. size: 37. 6\*22. 3\*13mm;
- K. color: gray semi-transparent;
- L. certificate: CE FCC;



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**Specifications:**

- A. channels: 2 channels;
- B. model type: car/boat;
- C. frequency band: 27, 35, 40MHz;
- D. modulation: PPM;
- E. sensitivity: 1024;
- F. RF receiver sensitivity: -80dbm;
- G. power: 4, 5-6vdc;
- H. weight: 15g;
- I. ANT length: 26mm;
- J. size: 46\*32\*25mm;
- K. color: black;
- L. certificate: CE FCC;



**8.RF MODULE PARAMETERS**

**Specifications:**

- FM RF module
- Frequency: 27, 35, 40MHz
- RF power: less than 0.8W;
- Size: 65\*52\*22mm;
- Weight: 29g;
- Model type: FS-TH9X/FS-GT3



**Specifications:**

- 2.4G RF module;
- Frequency: 2.4G;
- RF power: less than 20dbm;
- Size: 65\*52\*38mm;
- Weight: 33g;
- For model type: FS-TH9X, FS-GT3.



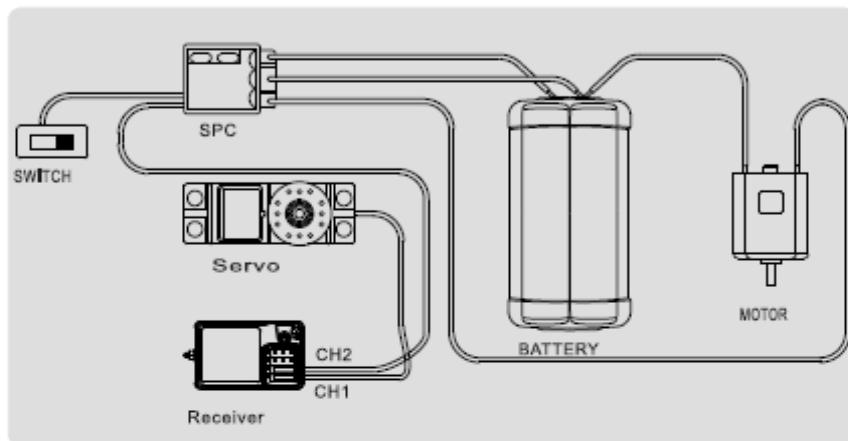


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### 9.receiver connectivity

#### 9.01 INSTALLATION WHEN AN MOTOR CONTROLLER IS USED



Remark: Place the antenna of the receiver vertically with the plane!  
And don't let it close to the metal thing for assurin its sensitivit . (See pict1)

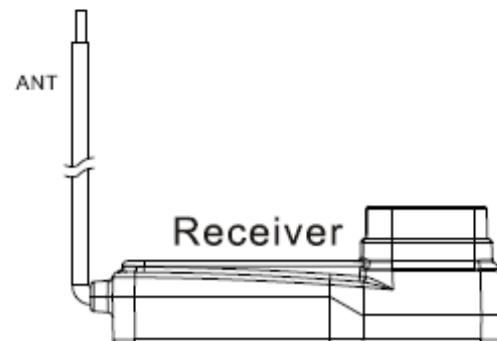


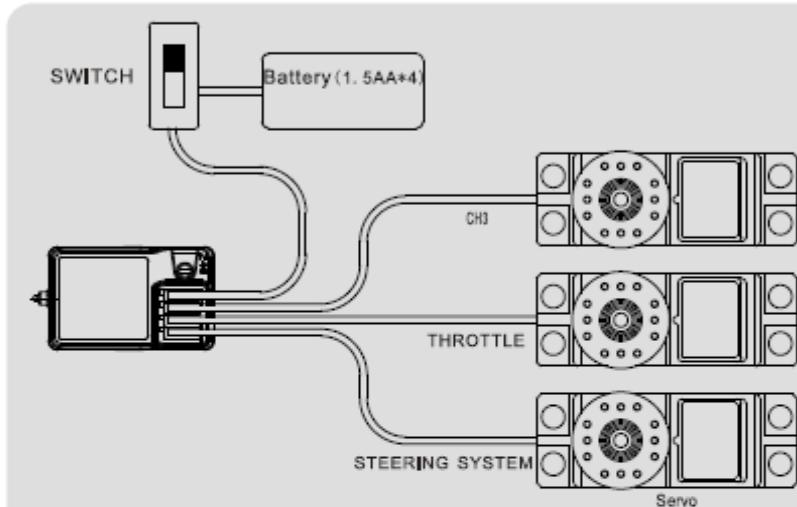
Figure 1



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#### 9.02 INSTALLATION FOR GAS POWERED MODELS





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### 10. 2. 4G OPERATION NOTES

#### 10. 01 Matching (code)

Our products are well matched in the factory, you do not need to match by yourself. But if your are going to match the receiver with other transmitter, or you need to change a new receiver or transmitter, please follow the following steps:

- A. Install the battery to 2.4G transmitter and shut it down.
- B. Insert the matching lines to the channel BIND/CH3 port of the receiver. (Figure.1) .
- C. Connect the receiver battery to VCC port of the receiver, on the same time the two LED are flashing and this means the receiver are going to the match status.
- D. Press and hold the button on the transmitter, and then switch on the power supply.
- E. Observe the LED on the receiver, if found that the LED is not flash anymore and that means successful Matched. (This process about 5s)
- F. Release the match button on the transmitter, take out the match line.
- G. Install the servos and then test.
- H. If the tests fail, please repeat the action above.
- I. If the tests success, then insert the power supply port into VCC, match complete.  
(The above ways of match is only suitable on FLYSKY 2.4G products)

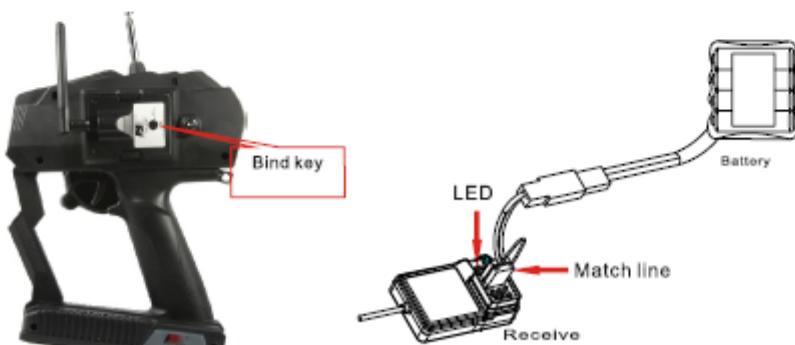


Figure 1

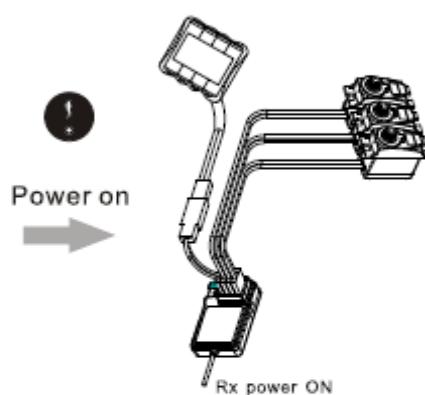


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10.02 power on:

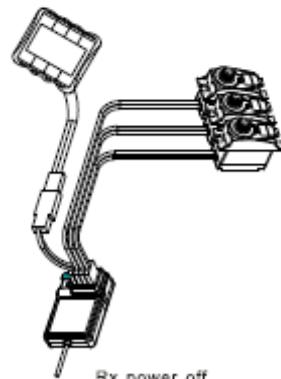
- A. Connect every part.
- B. Switch on the power supply.
- C. Connect the power supply.
- D. Receive LED light solid.
- E. Finish and use.



Power on  
→

10.03 Shut down:

- A. Cut off the receiver power supply.
- B. Cut off the transmitter power supply.



Shut down  
→





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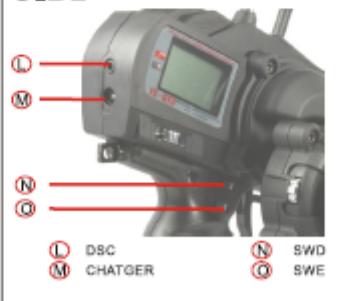
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## II. EACH PART OF THE TRANSMITTER

### FRONT



### SIDE



### BACK



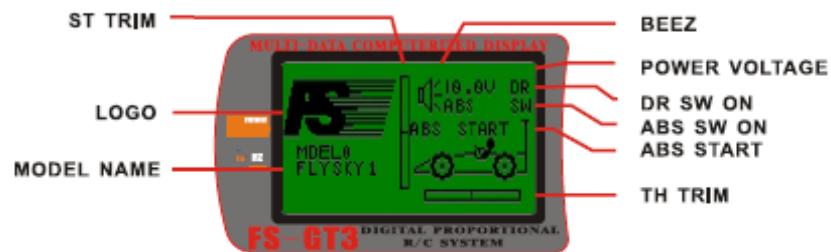


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## 12. TRANSMITTER FUNCTION NOTES

### LCD MAIN PAGE



**LOGO:** Thanks for using flysky's products.

**MODEL NAME:** This transmitter can save 8 type of models, you can give them each a name.

**BEEZ:** The system operation voice, operation voice(  means open,  means shut off).

**POWER VOLTAGE:** Display the power voltage, there is a warning voice when the voltage lower than 9.0v

**DR SW ON:** Before open this function should set it in advance, pls see the PROG KEY menu.

**ABS SW ON:** This means the ABS is switch on, this function need to be set in advance the details , pls see the PROG KEY menu.

**ABS STRAT:** This means the ABS function is in run.

**TH TRIM:** Throttle in the trimming status.

**ST TRIM:** steering system in the trimming status.



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Digital proportional radio control system

main menu



Page1



Page2



**Function Introduction:**

To display all the 12 menus.,,

**Operation Method:**

Choose the menu by press the UP/DOWN button, and then press ENTER to enter in.

**Parameter Introduction:**

**Model sel:** this tx can save 8 different models, and you can get to use any one of them in any time.

**Name edit:** you could edit your own brand or name into the tx

**Reverse:** forward and reverse setting;

**Subtrim:** assistant trim;

**DR:** double rate dr adjustment;

**E point:** to adjust the angle of each channel;

**ARC:** adjustment of the throttle and steering system curve;

**Display:** display the channel output status;

**ABS:** anti-skid brake system;

**ST delay:** set the reacting speed of the steering system;

**TH speed:** set the reacting speed of the throttle;

**PROG key:** set the programmable key.



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**MODEL SEL**



**Function Introduction:**  
This transmitter can save 8 type models so that you the user can use one transmitter control different models.

**Operation Method:**  
Select the models by the key UP/DOWN or the knob.

**Parameter Introduction:**  
MODEL1-MODEL8 are 8 different model parameter.  
FLYSKY0 is the original model name, you can edit it by yourself.

**EDIT name**



**Function Introduction:**  
This function is to name the 8 models in order to memory and distinguish.

**Operation Method:**  
Select the position which need to be changed by the UP/DOWN key, Select the word you needed by the knob switch, after finished, press the enter key to save and return Back. If you don't want to change the name, just press exit key to cancel and exit.

**Parameter Introduction:**  
Name Length: The longest is 8 words.  
Available words: 0 1 2 3 4 5 6 7 8 9 ; : <= > ABCDEFGHIJKLMNOPQRSTUVWXYZ[ \ ] and blank.

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Digital proportional radio control system

reverse



**Function Introduction:**

Adjustments the forward and reverse direction of the outputs channel rudder, throttle and the third channel to apply to the different servo system and assemble methods.

**Operation Method:**

Select the adjustment channel by UP/DOWN key, adjustments by the knob switch, after finished press enter key to save and exit.

**Parameter Introduction:**

CH: channel name  
TH: throttle channel  
STATE: the status of the channel  
ST: steering system channel  
NOR: normal  
AUX: The third assistant channel  
REV: reverse

SUBTRIM



**Function Introduction:**

To do the assistant adjustment of the servo system (rudder, throttle and The third channel) this can amend the servo angel deviation created by the structurer and assemble Problem.

**Operation Method:**

Select the adjustment channel by the key UP/DOWN, change the value by the key DIAL until the servo angel arrive at your requirement, after finished, press ENTER to save and exit, if press EXIT directly then the data won't be saved.

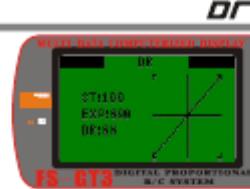
**Parameter Introduction:**

CH: channel name  
TH: throttle  
ST: steering system channel;  
Range: from +120 to -120.



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**Function Instruction:**

Double output control to get 2 different operation mode and suitable for different operation requirement. This function can be shut or open by a button in anytime normally, we set this function to the key SWD, pls see PROG KEY menu.

**Operation method:**

choose the item by UP/DOWN button, then adjust the data by the knob, then save the data and press "ENTER" to quit the adjustment, if press "EXIT" it means quit the system directly without saving the data.

**Parameter Introduction:**

**ST:** steering system

**EXP:** exponential operation setting: this function is used to change the sensitivity of the servo around the neutral position. It has no effect on the maximum servo travel.

**DR:** The current status, ON means this function opened, OFF means this function closed.



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END POINT



**Function Instruction:**

use this when performing left and right steering angle adjustments, throttle high side/brake side operation amount adjustment, and channel 3 servo up, side/down side operation amount adjustment during linkage, Correct the maximum steering angle and left and right steering angles when there is a difference in the turning radius due to the characteristics, etc. of the Vehicle

**Operation method:**

To choose the channel by UP/DOWN button, use the current control Stick (direction control disc or throttle ouch or the AUX switch) to choose the single side, Then adjust the data by the knob, then save the data and press "ENTER" to quit the Adjustment, if press "EXIT" it means quit the system directly without saving the data.

**Parameter Introduction:**

**CH:** channel name  
**UP:** the first half part of outputs  
**DN:** the second half part of outputs,  
**ST:** means direction channel;  
**TH:** means throttle channel;  
**AUX:** the assistant channel(channel 3);  
**Range:** from -100% to 100%



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arc



**Operation introduction:**

this function is a kind of high class professional setting system, it can be used to set the output curve to let the output to match the motor, engine and servo much better, and also can according the operator's feeling to set to get the optimal operation feeling.

**Operation Method:**

We need to set 2 channel ST and TH, press the UP/DOWN button to select the channel which you want to set, then press DIAL key to next class manual, the next manual has 5 setting points: L, 1, 2, 3 and H, choose the point by press the UP/DOWN button, then adjust the data by the DIAL key, then save the data and press "ENTER" to quit the adjustment, if press "EXIT" it means quit the system directly without saving the data.

**Parameter Introduction:**

ST: steering system channel;  
TH: throttle channel;  
L: 0-100;  
1: 0-100;  
2: 0-100;  
3: 0-100;  
H: 0-100

DISPLAY



**Operation introduction:**

This function is to display and check the output data.

**Operation Method:**

Enter the main menu then choose the display menu to enter in.

**Parameter Introduction:**

ST: steering system channel;  
TH: means the throttle channel;  
AUX: the assistant channel (channel 3).



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ABS



**Function introduction:**

This function is a kind of high class professional setting system, to set the car's anti-skid brake system.

**Operation Method:**

To choose the item by press the UP/DOWN button, then adjust the data by the knob, then save the data and press "Enter" to quit the adjustment, if press "EXIT" it means quit the system directly without saving the data.

**Parameter Introduction:**

**RANGE:** The range of the output range when brake. Scope: 0-100

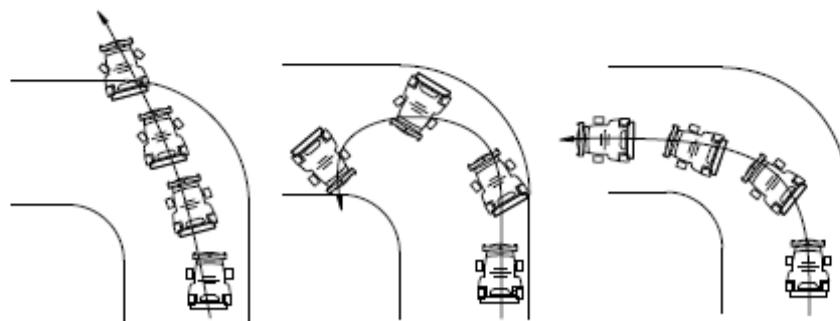
**CYCL:** The brake ABS frequency. Scope: 0-100

**DUTY:** The brake time per point. Scope: 0-100

**LEVEL:** The brake ABS start point after manually operation mode. Scope: 0-100

**STM:** under the mode of turn the rudder which means start the ABS only when turn direction that we need to set a starting value for 2 side of the direction rudder, the lowest value is 015, the highest is 100.

**MANUAL:** The hand operation mode which can be shut or opened by a button.



WITHOUT ABS

WITH ABS



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### ST DELAY



#### Function Introduction:

To adjust the speed of the steering operation that quick steering operation will cause momentary understeering, loss of speed, or spinning. This function is effective in such cases.

#### Operation Method:

Adjust the data by the knob, and then save the data and press "ENTER" to quit the adjustment, if press "EXIT" it means quit the system directly without saving the data.

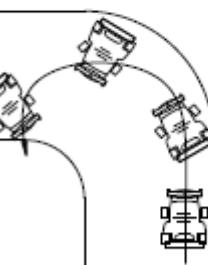
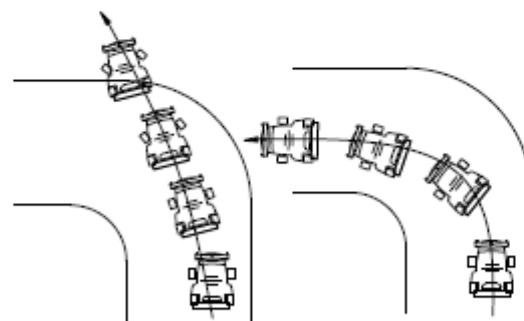
#### Parameter Introduction:

TURN: the speed of travel to large-angle from the neutral point.

RETURN: the speed of travel back from the large-angle.

000 means the fast, 100 means the slowest.

Range: from -100 to 100.



WITHOUT ST DELAY

WITH ST DELAY



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### TH SPEED



#### Function Introduction:

Sudden throttle trigger operation on a slippery road only causes the wheels to spin and the vehicle cannot accelerate smoothly. Setting the throttle speed function reduces wasteful battery consumption while at the same time permitting smooth, enjoyable operation.

#### Operation Method:

To adjust the data by the DIAL key, then save the data and press "Enter" to quit the adjustment, If press "EXIT" it means quit the system directly without saving the data.

#### Parameter Introduction:

000 means the fast, 100 means the slowest.

Scope: 0-100



WITHOUT TH SPEED



WITH TH SPEED

### PROG KEY



#### Function Introduction:

To programmable set all the function of this transmitter except the LCD operation, to reach the operation habit of different operator which is very humanity.

#### Operation Method:

Choose the button SWA UP, SWA DOWN, SWB UP, SWB DOWN... by the UP/DOWN button, then to distribute the function ST TRIM UP, ST TRIM DOWN, TH TRIM UP, TH TRIM DOWN, ABS KEY... by the DIAL key, and then save the data and press "Enter" to quit the adjustment, If press "EXIT" it means quit the system directly without saving the data.

#### Parameter Introduction:

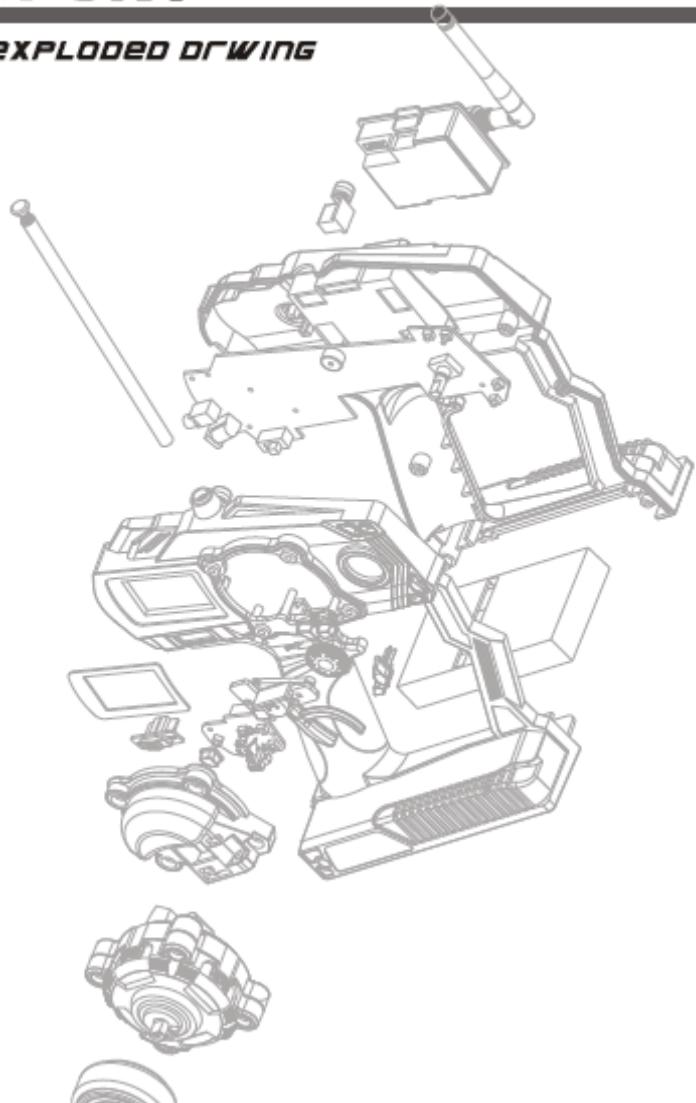
Key: To choose the functional key which is like SWA UP, SWA DOWN, SWB UP, SWB DOWN....  
FUN: To choose the relative function which is like ST TRIM UP, ST TRIM DOWN, TH TRIM UP, TH TRIM DOWN, ABS KEY.....



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13. EXPLODED DRAWING



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**14. PACKAGING WITH CONTENT LIST**

NO:	Model	Sum	Remarks
1	3 CHANNEL 2.4G TRANSMITTER (FS-GT3)		1
2	3 CHANNEL 2.4G RECEIVER (FS-GT3A)		1
3	2.4G MODULE		1
4	MANULE		1
5	FM MODULE		1      Optional
6	CHARGER		1      Optional
7	SERVO (FS-S009)		2      Optional

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC NOTE:

THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.



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