



# Futaba GYA553 Fixed-Wing 6-Axis Gyroscope Instruction Manual

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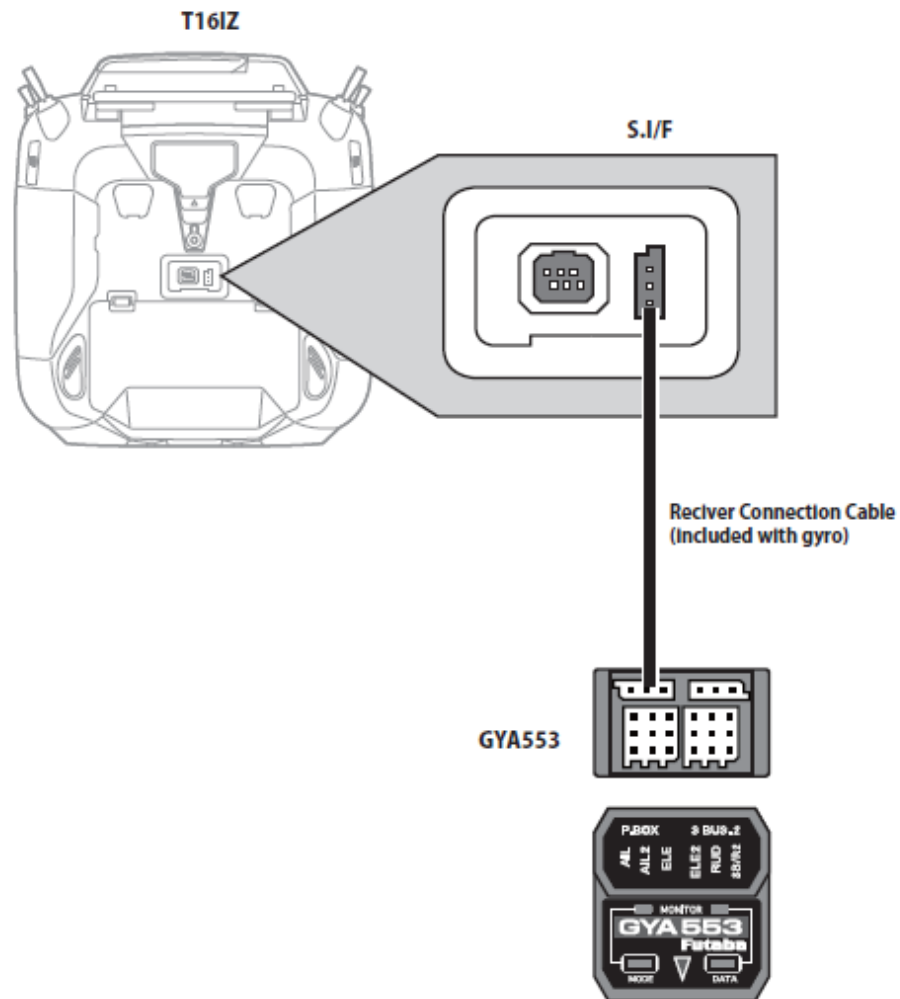
# Futaba

**Futaba GYA553 Fixed-Wing 6-Axis Gyroscope**



By installing the latest software (Ver. 3.6 ~) on the T32MZ, you can setting the airplane gyro GYA553 on the T32MZ.

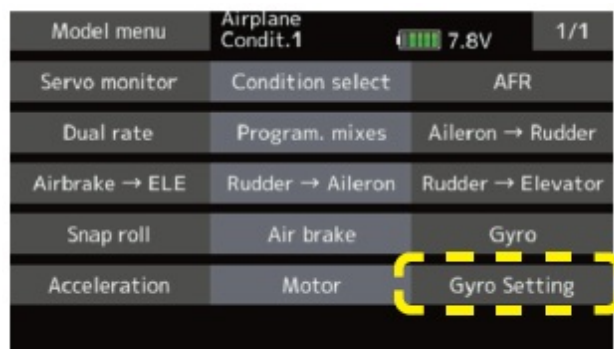
## Futaba GYA553 Fixed-Wing 6-Axis Gyroscope-PROD



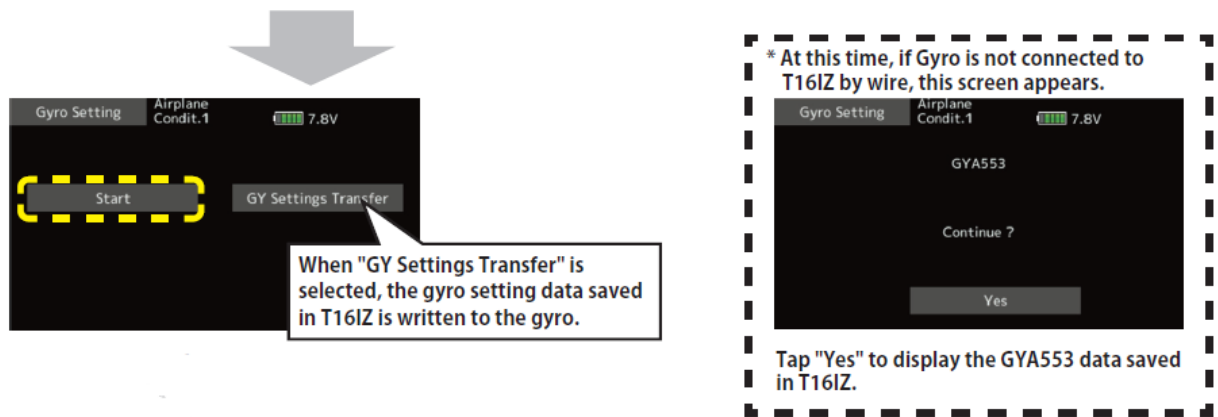
### CAUTION

Be sure to connect and disconnect the GYA553 and T32MZ connection cable with the power off.

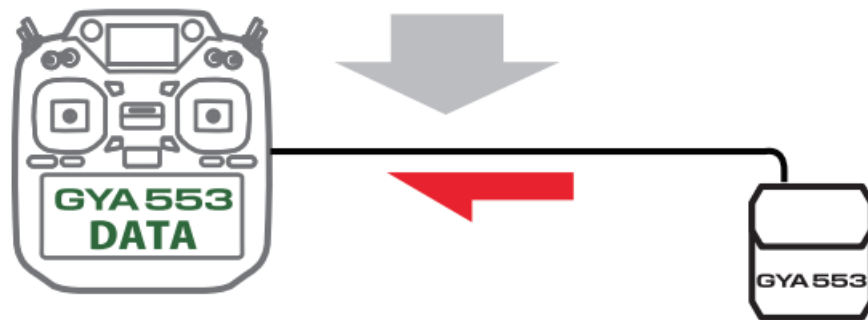
### SETTING



1. Select "Gyro setting" on the last page of Airplane Model Menu



## 2. Select "Start"



- Select "Start" This will download the gyro data to the T32MZ.

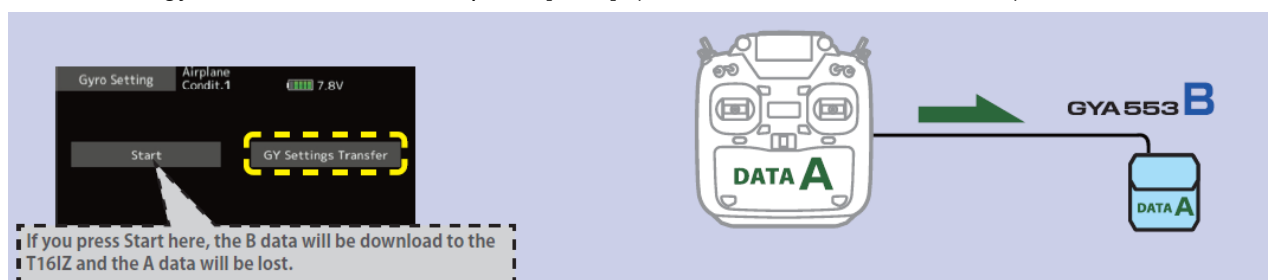


## 3. Home screen is displayed

- When copying data from Gyro A to Gyro B



- Connect the gyro A to the T32MZ and press [Start]. (Enter the data of A into T32MZ)



- Connect Gyro B to T32MZ and press [GY Settings Transfer]. (Put data on A into gyro B)

Home screen

**Gyro operation mode / Gyro gain**  
Displays "AVCS" or "Normal" operation mode and gyro gain of aileron (roll), elevator (pitch) and rudder (yaw) axis.

**GYA553 Software version**  
The software version of the connected GYA553 is displayed.

GYA553	Airplane	Condit.1	<div><div></div><div></div><div></div><div></div></div> 7.4V
Holding Power	C5	6.4V	
AIL	Gyro	OFF	
ELE	Gyro	OFF	
RUD	Gyro	OFF	
Gyro Version		2.0	

Basic Menu

**Battery voltage**  
Displays the voltage of the receiver battery connected to GYA.

On the home screen, basic information such as gyro operation mode, sensitivity, battery voltage are displayed.

Basic menu

Home screen

Home screen

GYA553	Airplane	Condit.1	<div><div></div><div></div><div></div><div></div></div> 7.4V
Holding Power	C5	6.4V	
AIL	Gyro	OFF	
ELE	Gyro	OFF	
RUD	Gyro	OFF	
Gyro Version		2.0	

Basic Menu

Basic menu

Basic Menu	Airplane	Condit.1	<div><div></div><div></div><div></div><div></div></div> 7.8V
Config			
SBus Basic			

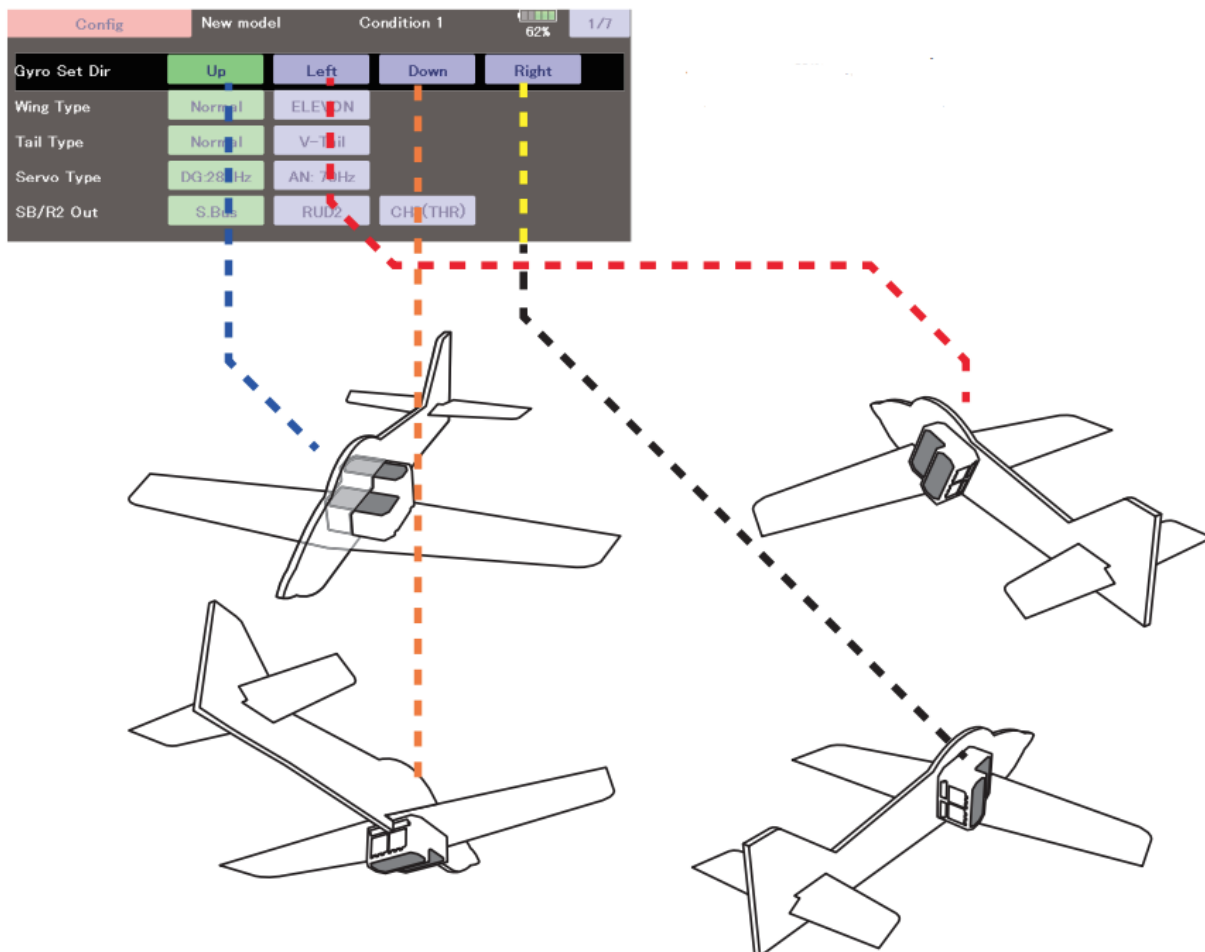
◆ Config

Config	Airplane	Condit.1	<div><div></div><div></div><div></div><div></div></div> 7.8V	1/7
Gyro Set Dir	Up	Left	Down	Right
Wing	Normal	ELEVON		
Tail	Normal	V-Tail		
Servo Type	DG:285Hz	AN: 70Hz		
SB/R2 Out	S.Bus	RUD2	CH3(THR)	

◆ S.BUS basic

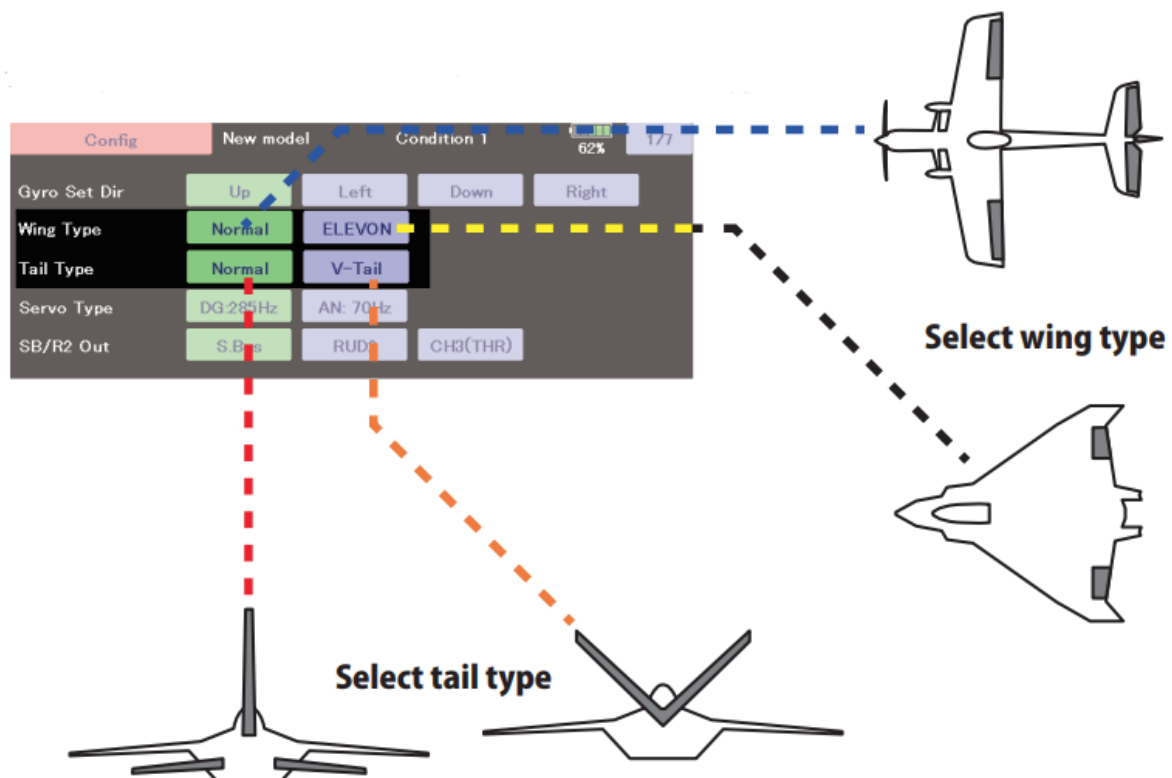
SBus Basic	Airplane	Condit.1	<div><div></div><div></div><div></div><div></div></div> 7.8V	1/3
AIL	CH1	Gain AIL	CH5	
ELE	CH2	Gain ELE	CH7	
		Gain RUD	CH8	
RUD	CH4	ELE2	CH9	
AIL2	CH6	RUD2	CH11	

Config 1/7 Gyro set mounting direction



Set the mounting direction of GYA. Set mounting direction

### Config 1/7 WING/TAIL

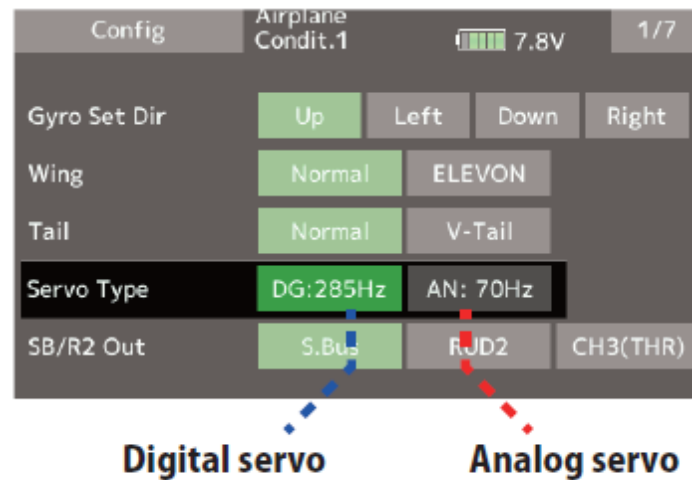


Set with the wing type/tail type of GYA553. The wing type/tail type of the transmitter is not used and is normal.

- Turn off the elevon/ V-tail mixing on the transmitter side.

- Do not use transmitter sub-trim. Adjust using the gyro neutral offset.
- When using the S.BUS servo, you can also use the neutral offset function of the S.BUS servo setting parameters.

### Config 1/7 Servo type



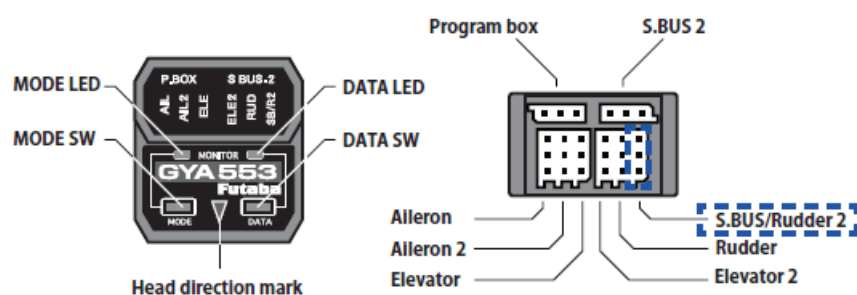
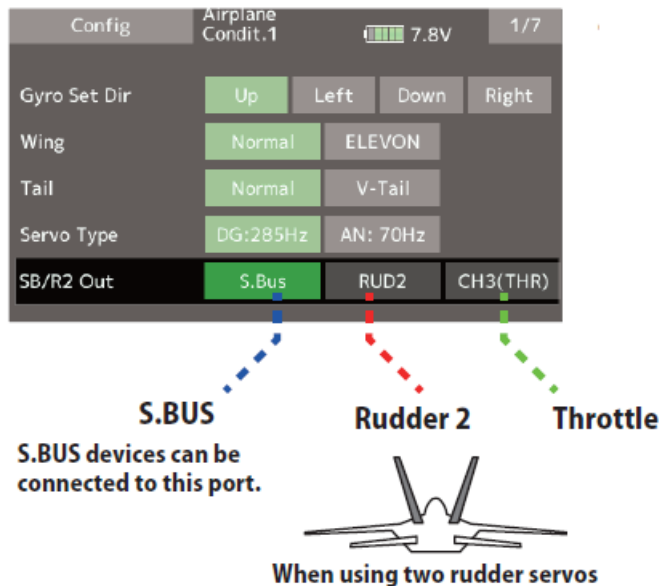
Select the servo type according to the servo to be used.

Digital servo → DG : 285 Hz

Analog servo → AN : 70 Hz

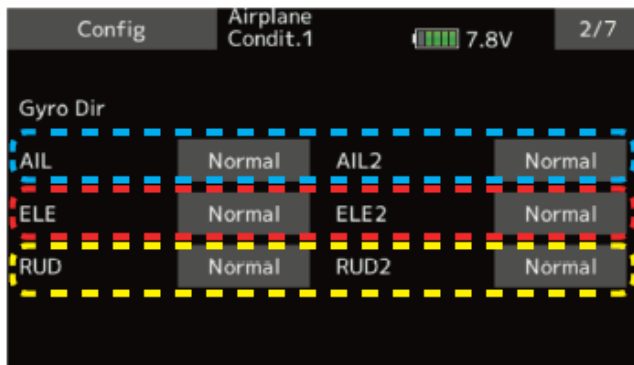
The stability of the digital-servo mode of a flight increases in order to perform a high-speed control action.

### Config 1/7 SB/R2 OUT



Select the SB/R2 port.

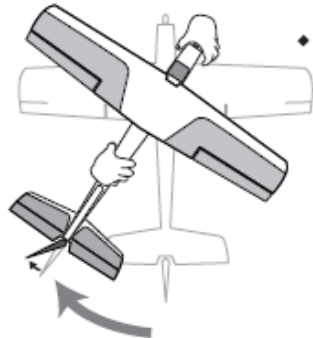
## Config 2/7 Gyro direction



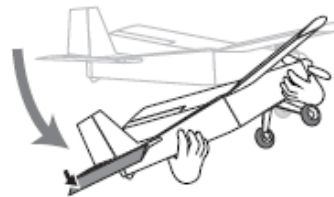
Tilt the airplane to the left on the ground and check that the ailerons operate to the right.



Turn the airplane to the right on the ground and check that the rudder operates to the left.



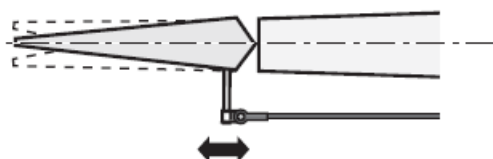
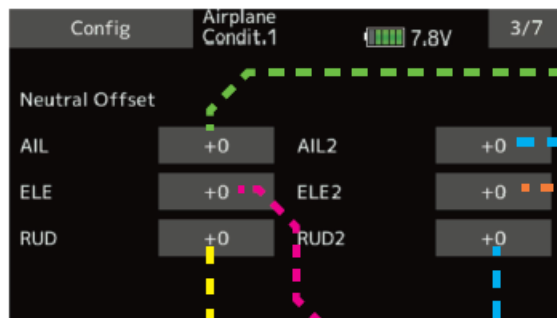
Raise the airplane with its nose upward and check that the elevator operates downward.



It is the direction setting of the gyro. Be careful as it will crash if the direction is reversed. For dual aileron, dual elevator, and dual rudder aircraft, check the operating direction of each second aileron/elevator/rudder.

## Config 3/7 Neutral offset

Neutral position setting for each servo.



This will move the neutral to the desired position.

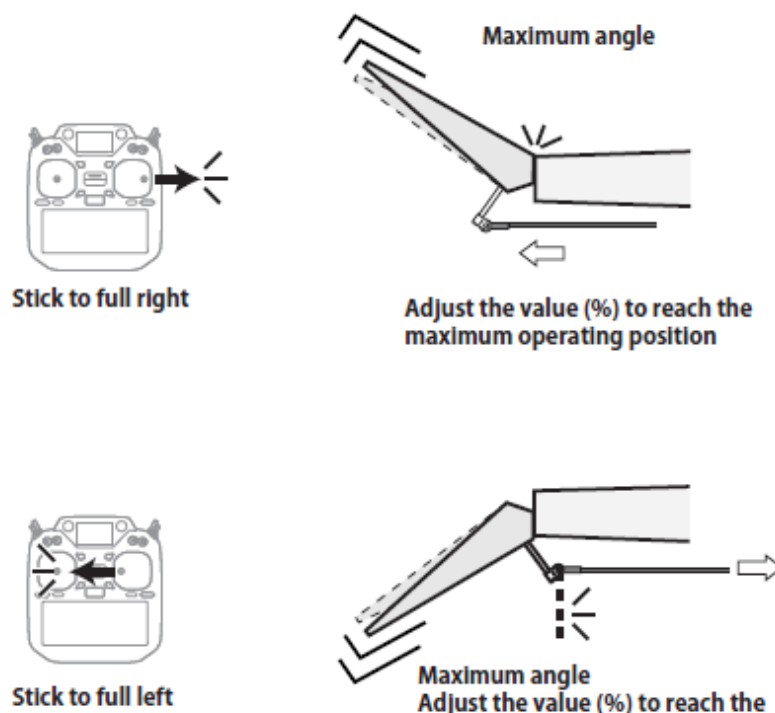
## Config 4/7 5/7 Servo limit





This is the limit setting for each servo. The position of the maximum operation is read into the gyro in the first setting.

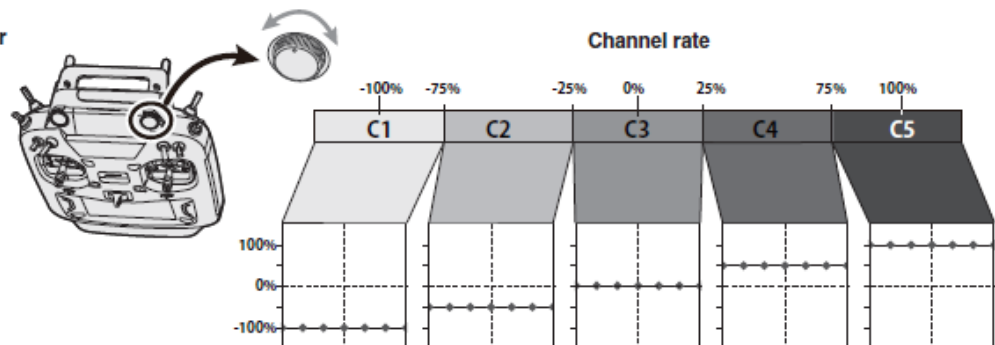
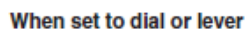
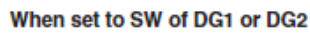
### Aileron example



### Config 6/7 Holding Power

It is a function to adjust the posture holding force of the aircraft in AVCS mode. Decreasing the value weakens the holding power and makes the operation feeling closer to the normal mode. The current rate numbers C1 to C5 are displayed by operating the channel of the transmitter. Like the flight condition function of the transmitter, you can set up to 5 different data for the attitude holding force rate of the aircraft in AVCS mode by operating the switch from the transmitter, and switch between them. You can set the holding power rate selector switch to the channel

## Config 7/7 Reset

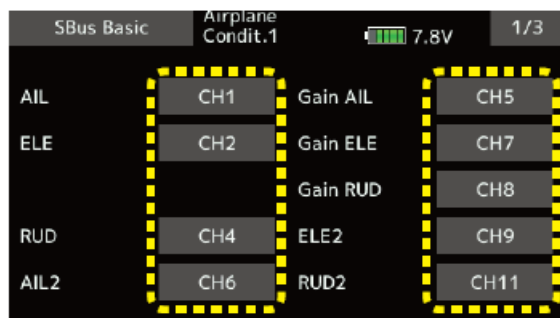


## Config 7/7 Reset



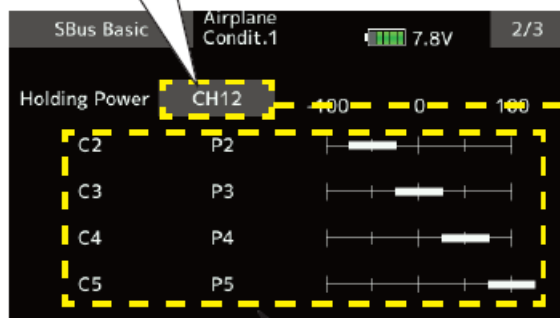
Reset each Config item. It returns to the initial value.

## SBUS Basic menu



The channel of each function can be changed.

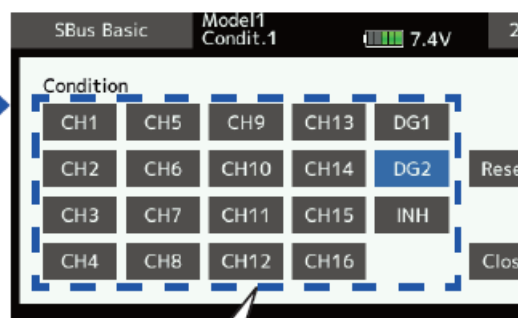
Tap to move to the rate switching CH setting page.



Holding Power C2 to C5

### WARNING

① Always verify that the S.BUS function assignments match your transmitter's function (in the FUNCTION menu) assignments. If any changes are made with the transmitter function assignments, then it will also be necessary to make the changes within the S.BUS function assignments. To change the channel, GYA5 and T16IZ must be connected.

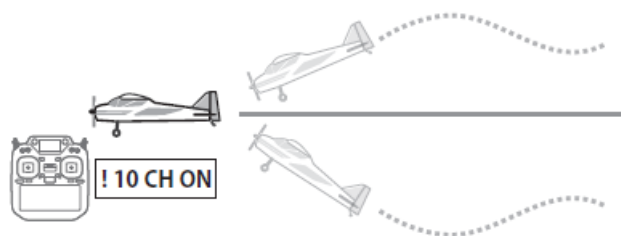


Tap the CH used for rate switching to select it.



Reset each S.BUS function. It returns to the initial value.

ON-OFF channel for auto recovery




Set the CH for each function according to the transmitter to be used. Any unused functions should be set to INH (Inhibited). The channel of each function can be changed.

### WARNING

Always verify that the S.BUS function assignments match your transmitter's function (in the FUNCTION menu) assignments. If any changes are made within the transmitter function assignments, then it will also be necessary to make the changes within the S.BUS function assignments. To change the channel, GYA553 and T32MZ must

be connected.

Documents / Resources

	<p><a href="#">Futaba GYA553 Fixed-Wing 6-Axis Gyroscope</a> [pdf] Instruction Manual</p> <p>GYA553, Fixed-Wing 6-Axis Gyroscope, GYA553 Fixed-Wing 6-Axis Gyroscope, 6-Axis Gyrosc ope, Gyroscope</p>
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