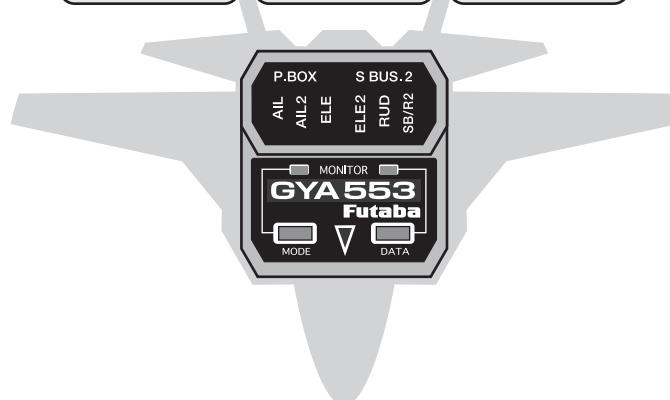
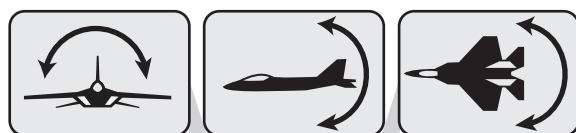




**T16IZ**  
**T16IZ**  
SUPER  
**GYA553**



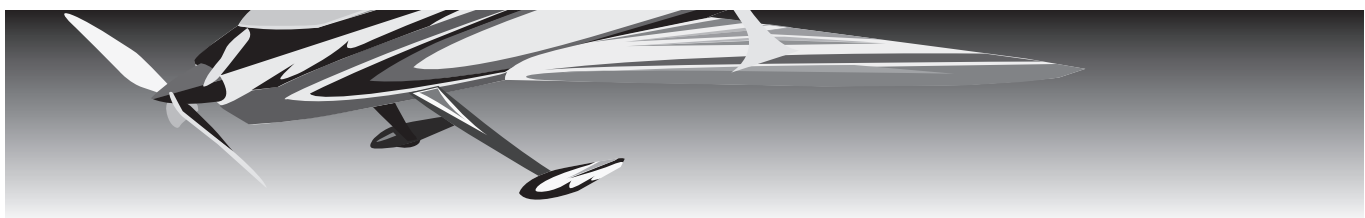
**T16IZ/T16IZ SUPER**

**GYA553 Ver.3**

**Setting manual**

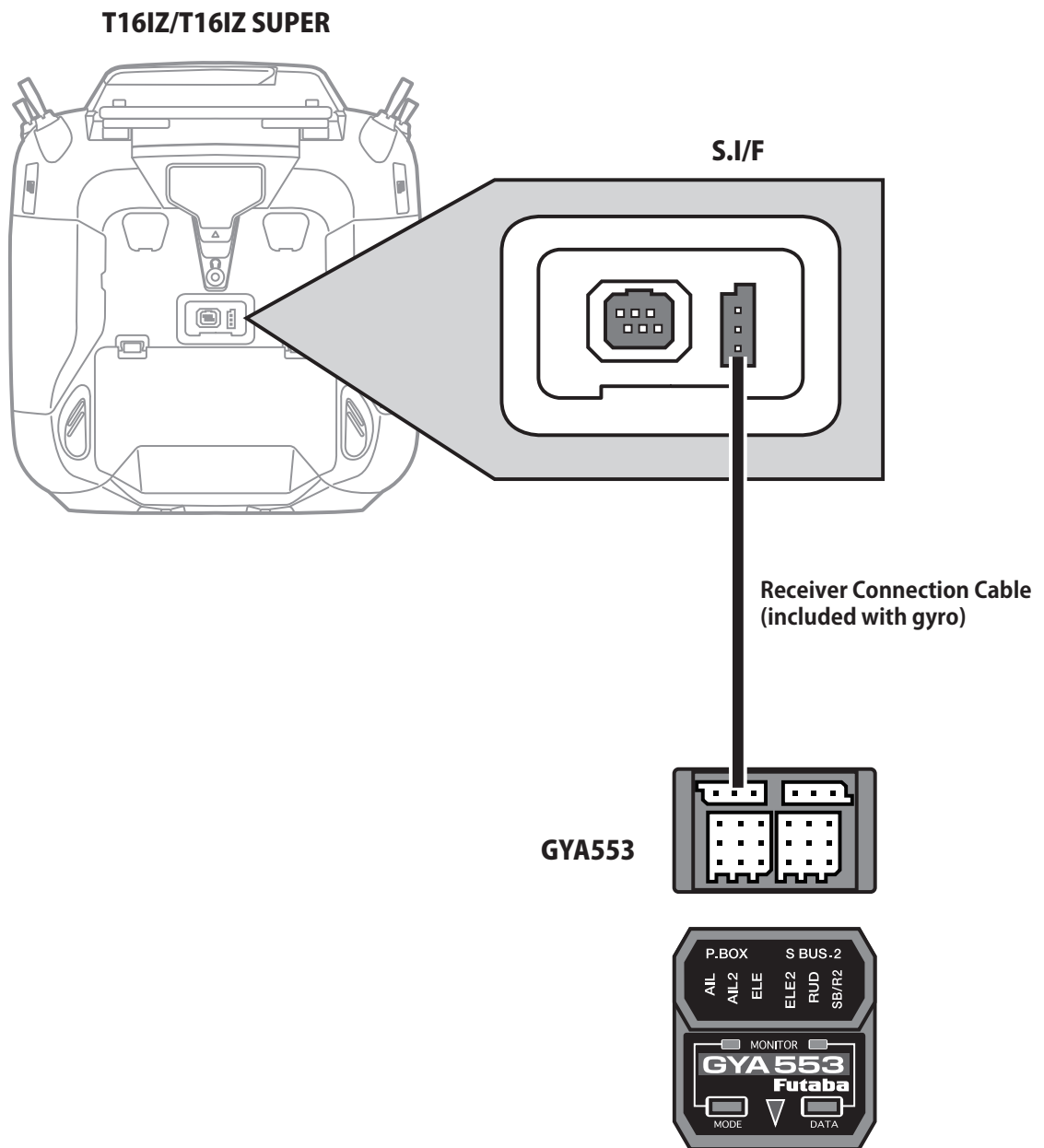
**Futaba**

1M23Z07717



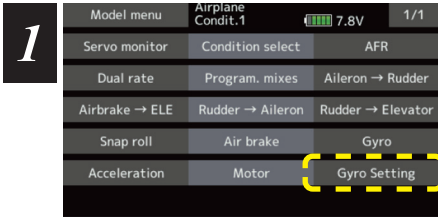
By installing the latest software on the T16IZ/T16IZ SUPER, you can setting the airplane gyro GYA553 on the T16IZ/T16IZ SUPER.

### Connection T16IZ/T16IZ SUPER and GYA553

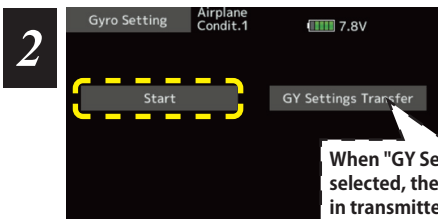


#### **CAUTION**

- 1 Be sure to connect and disconnect the GYA553 and Transmitter connection cable with the power off.

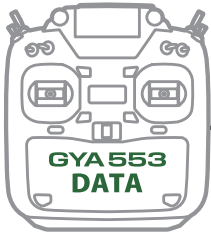
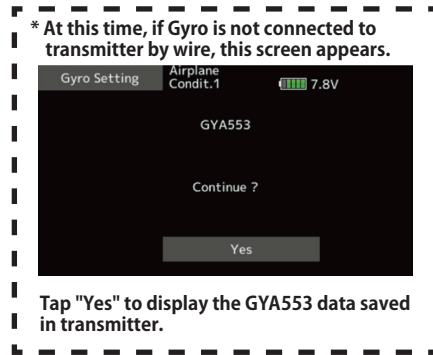


1. Select "Gyro setting" on the last page of Airplane Model Menu

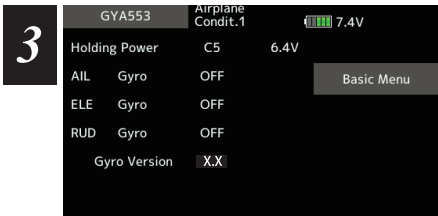


2. Select "Start"

When "GY Settings Transfer" is selected, the gyro setting data saved in transmitter is written to the gyro.



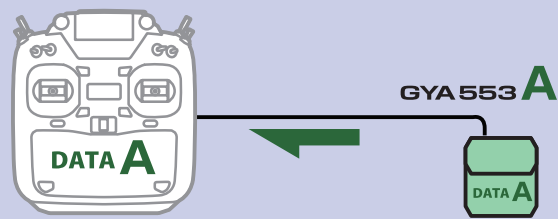
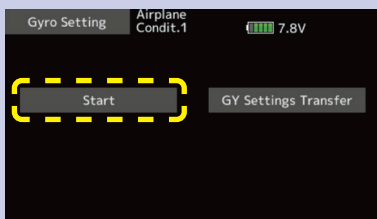
Select "Start"  
This will download the gyro data to the transmitter.



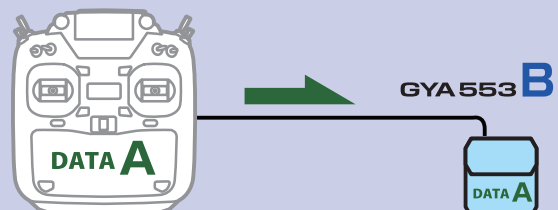
3. Home screen is displayed

To Basic menu

## ◆ When copying data from Gyro A to Gyro B



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



If you press Start here, the B data will be downloaded to the transmitter and the A data will be lost.

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

## Home screen

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

### 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.

The Home screen displays the following information:

- GYA553 Airplane Condit.1
- Holding Power C5
- AIL Gyro OFF
- ELE Gyro OFF
- RUD Gyro OFF
- Gyro Version X.X
- Battery voltage: 7.4V (indicated by a battery icon)
- A callout box points to the 6.4V value, stating: "Battery voltage Displays the voltage of the receiver battery connected to GYA."
- A "Basic Menu" button is visible.

## Basic menu

### Home screen

The Home screen displays the following information:

- GYA553 Airplane Condit.1
- Holding Power C5
- AIL Gyro OFF
- ELE Gyro OFF
- RUD Gyro OFF
- Gyro Version X.X
- Battery voltage: 7.4V
- The "Basic Menu" button is highlighted with a blue box.

### Basic menu

The Basic menu displays the following information:

- Basic Menu Airplane Condit.1
- Battery voltage: 7.8V
- Buttons: Config, SBus Basic

### ◆ Config

The Config menu displays the following information:

- Config Model1 Condit.1
- Battery voltage: 8.1V
- Page: 1/7
- Gyro Set Dir: Up (selected), Left, Down, Right
- Wing: Normal (selected), ELEVON
- Tail: Normal (selected), V-Tail
- Servo Type: DG:285Hz (selected), AN: 70Hz
- SB/R2 Out: SBus(HS) (selected), RUD2, Ch3(Thr), SBus(Std)

### ◆ S.BUS basic

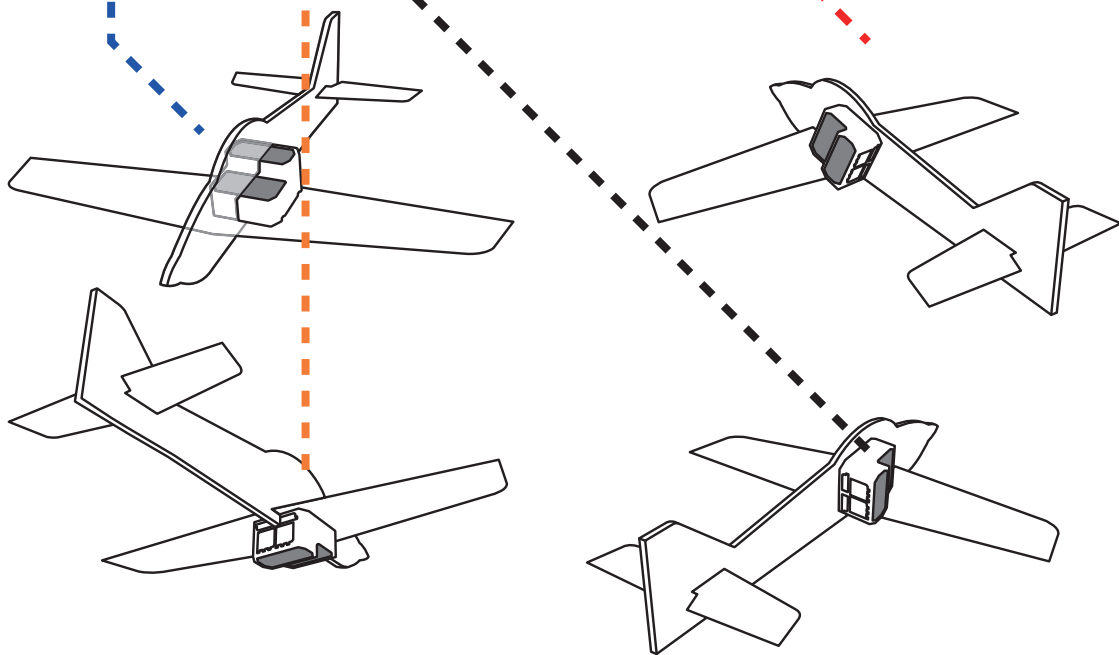
The S.BUS basic menu displays the following information:

- SBus Basic Airplane Condit.1
- Battery voltage: 7.8V
- Page: 1/3
- AIL: CH1, Gain AIL, CH5
- ELE: CH2, Gain ELE, CH7
- RUD: CH4, Gain RUD, CH8
- AIL2: CH6, ELE2, CH9
- RUD2: CH3, CH11

**Config 1/7 Gyro set mounting direction**

Config	Model1 Condit.1	8.1V	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	SBus(HS)	RUD2	Ch3(Thr)	SBus(Std)

Set the mounting direction of GYA. Set mounting direction with reference to figure below.

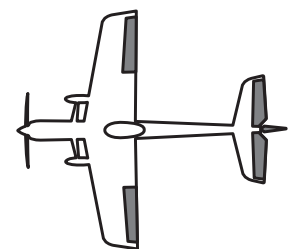


**Config 1/7 WING/TAIL**

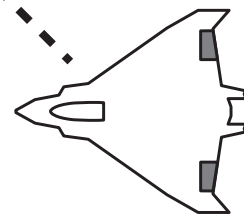
Set with the wing type/tail type of GYA553. The wing type/tail type of the transmitter is not used and is normal.

- 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	Model1 Condit.1	8.1V	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	SBus(HS)	RUD2	Ch3(Thr)	SBus(Std)

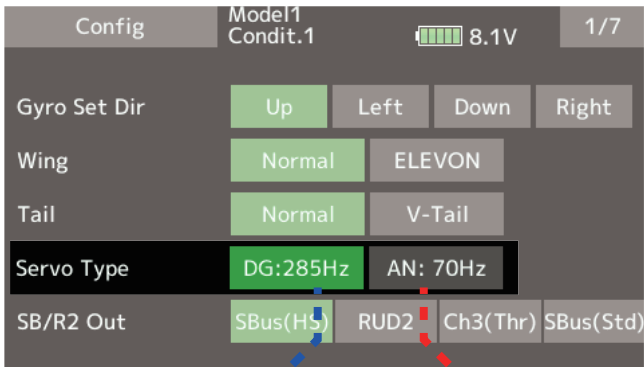


Select wing type



Select tail type

**Config 1/7 Servo type**



Digital servo

Analog servo

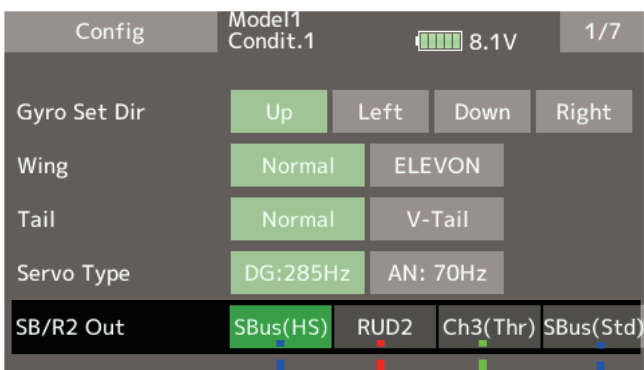
Select the servo type according to the servo to be used.

**Digital servo → DG : 285 Hz**

**Analog servo → AN : 70 Hz**

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

**Config 1/7 SB/R2 OUT**



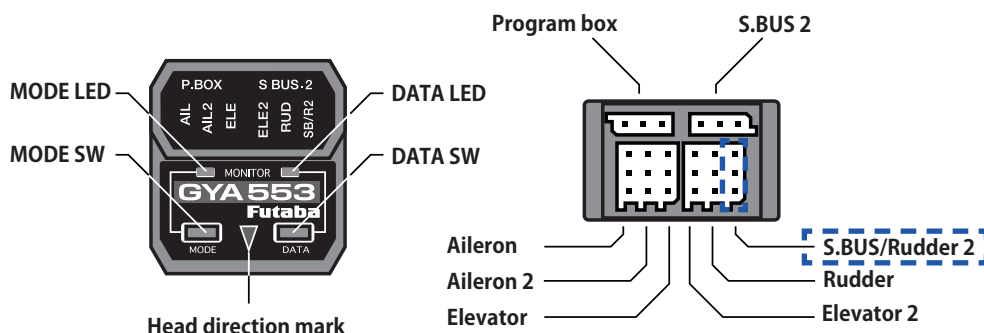
Select the SB/R2 port.

**S.BUS(HS)**  
Connect SV servo

**Rudder 2**    **Throttle**

**S.BUS(STD)**

If S3175HV, DLPH-1, etc. do not work with S.BUS(HS), use S.BUS(STD).



# Config

## Config 2/7 Gyro direction

It is the direction setting of the gyro. Be careful as it will crash if the direction is reversed.

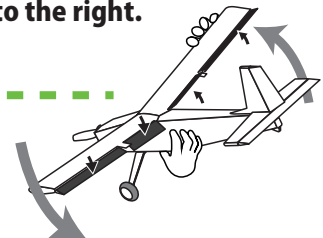
For dual aileron, dual elevator, and dual rudder aircraft, check the operating direction of each second aileron/elevator/rudder.

Config		Model1	Condit.1	8.1V	2/7
Gyro Dir					
AIL	Normal	AIL2	Normal		
ELE	Normal	ELE2	Normal		
RUD	Normal	RUD2	Normal		
AIL3	Normal	AIL4	Normal		

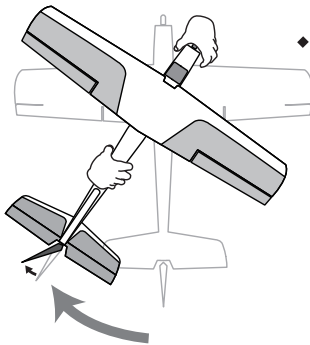
Tilt the airplane to the left on the ground and check that the ailerons operate to the right.



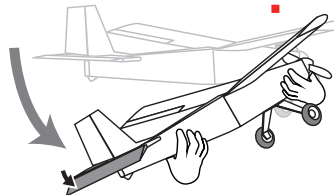
Tilt the airplane to the left on the ground and check that the 4-ailerons operate to the right.



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.



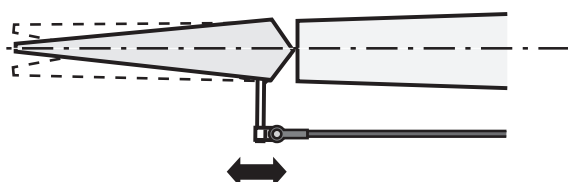
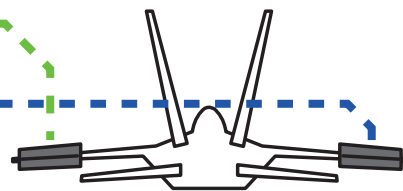
If the SB/R2 port output is set to "S.BUS(HS)" or "S.BUS(STD)", the setting menu will display AIL3 and AIL4 setting items.

\* AIL3 and AIL4 settings cannot be set with the button settings on the GYA553 main unit.

## Config 3/7 Neutral offset

Config		Model1	Condit.1	8.1V	3/7
Neutral Offset					
AIL	+0	AIL2	+0		
ELE	+0	ELE2	+0		
RUD	+0	RUD2	+0		
AIL3	+0	AIL4	+0		

Neutral position setting for each servo.



This will move the neutral to the desired position.

If the SB/R2 port output is set to "S.BUS(HS)" or "S.BUS(STD)", the setting menu will display AIL3 and AIL4 setting items.

\* AIL3 and AIL4 settings cannot be set with the button settings on the GYA553 main unit.

Config 4/7 5/7 Servo limit

Config		Model1	Condit.1	8.1V	4/7
Srv.Limit					
AIL	100 %	100 %			
ELE	100 %	100 %			
RUD	100 %	100 %			
AIL3	100 %	100 %			

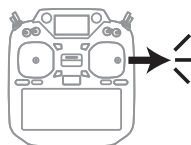
This is the limit setting for each servo. The position of the maximum operation is read into the gyro in the first setting.

Config		Model1	Condit.1	8.1V	5/7
Srv.Limit					
AIL2	100 %	100 %			
ELE2	100 %	100 %			
RUD2	100 %	100 %			
AIL4	100 %	100 %			

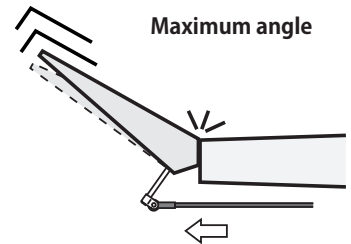
If the SB/R2 port output is set to "S.BUS(HS)" or "S.BUS(STD)", the setting menu will display AIL3 and AIL4 setting items.

\* AIL3 and AIL4 settings cannot be set with the button settings on the GYA553 main unit.

Aileron example



Stick to full right

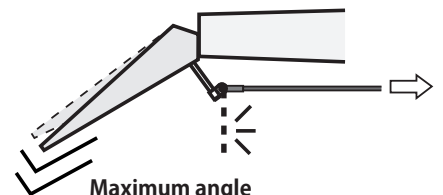


Maximum angle

Adjust the value (%) to reach the maximum operating position



Stick to full left



Maximum angle

Adjust the value (%) to reach the



**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 with the AFR function of the transmitter, and set the point for each rate on the AFR point curve to switch. It is also possible to use the flight condition function to work with the flight condition switch.

**Config 6/7**

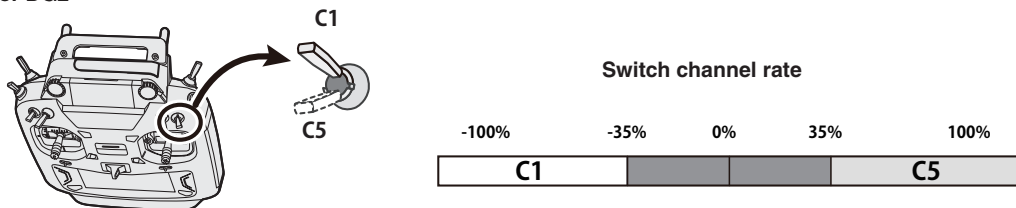
With the switch button, the "holding power" of each rate (C1 to C5) can be displayed and adjusted.

Display and adjust the current rate numbers C1 to C5 by operating the channel on the transmitter.

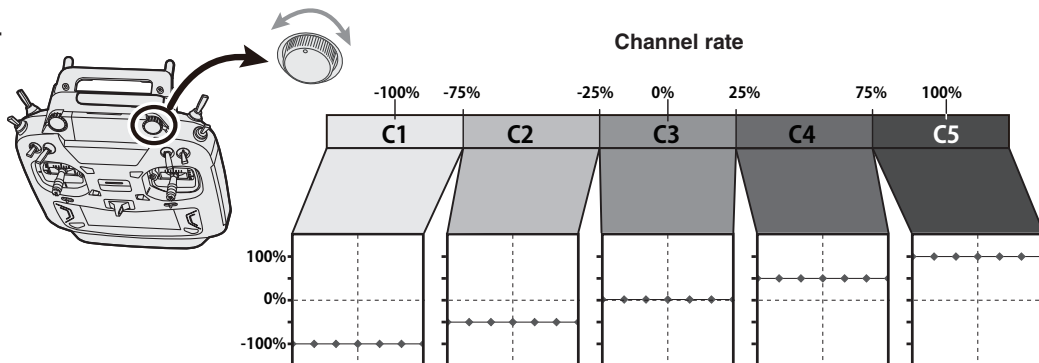
**S.BUS Basic 2/3**

By operating the channel of the transmitter, the channel position of the current rate numbers C1 to C5 will be displayed in green.

When set to SW of DG1 or DG2



When set to dial or lever



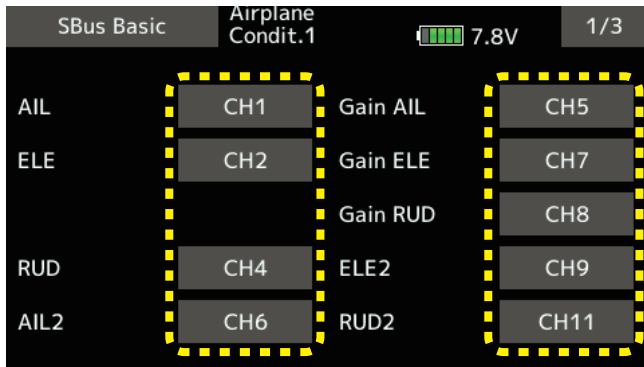
**Config 7/7 Reset**



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

## SBUS Basic menu

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

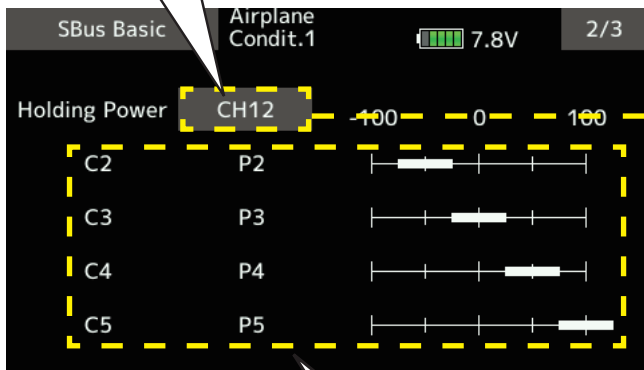


The channel of each function can be changed.

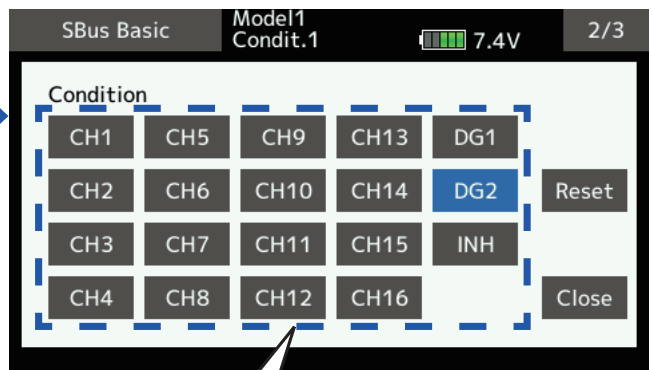
**⚠ WARNING**

① 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 T161Z must be connected.

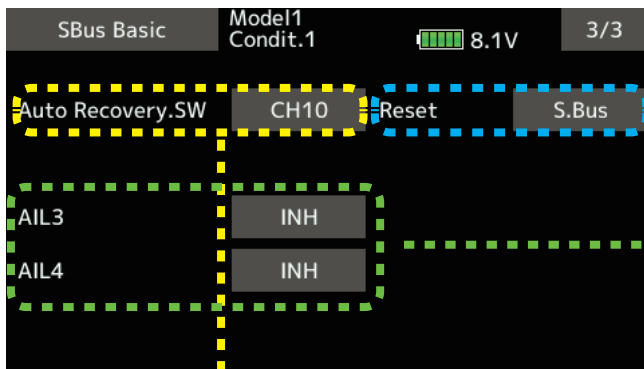
Tap to move to the rate switching CH setting page.



Holding Power C2 to C5



Tap the CH used for rate switching to select it.

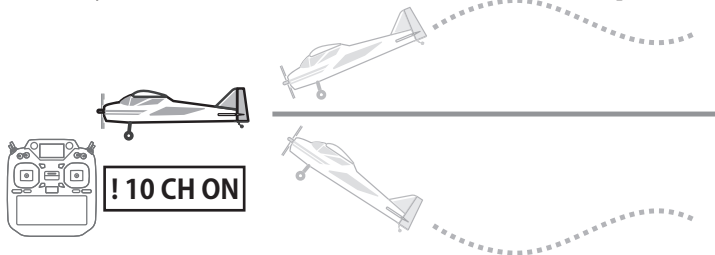


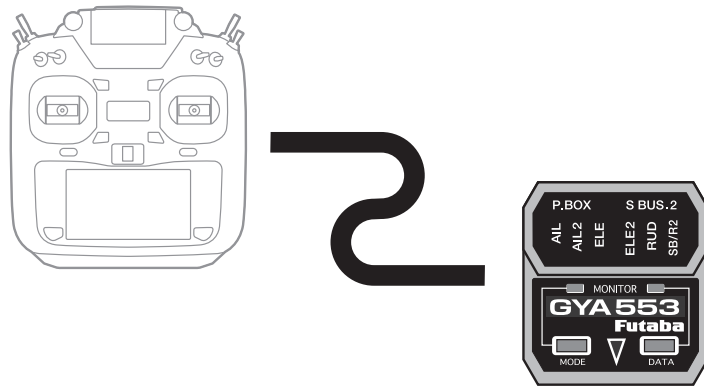
**Reset each S.BUS function. It returns to the initial value.**

CH setting items for AIL3 and AIL4 are displayed on the final screen of the S.BUS basic setting screen. By setting the operation CH of AIL3 and AIL4, the gyro-controlled signal is output to the corresponding CH of the S.BUS output.

- \* Match the operation CH and CH setting on the function setting screen on the transmitter side.
- \* When the AIL3 and AIL4 CH settings are INH, the gyro control is not performed and the data sent from the transmitter is output as is.

**ON-OFF channel for auto recovery**





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