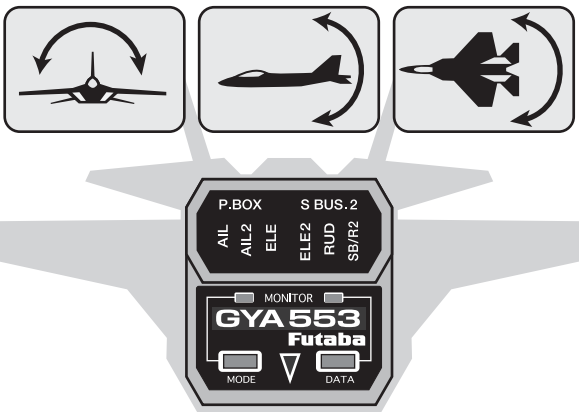
T16IZ

T16IZ SUPER

GYA553



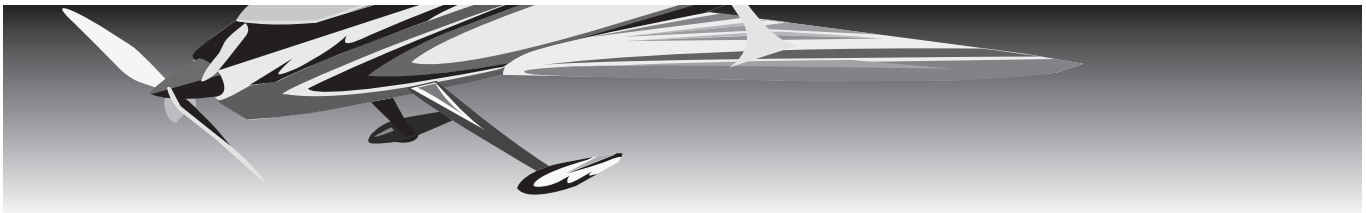
T16IZ/T16IZ SUPER

GYA553 Ver.3

Setting manual

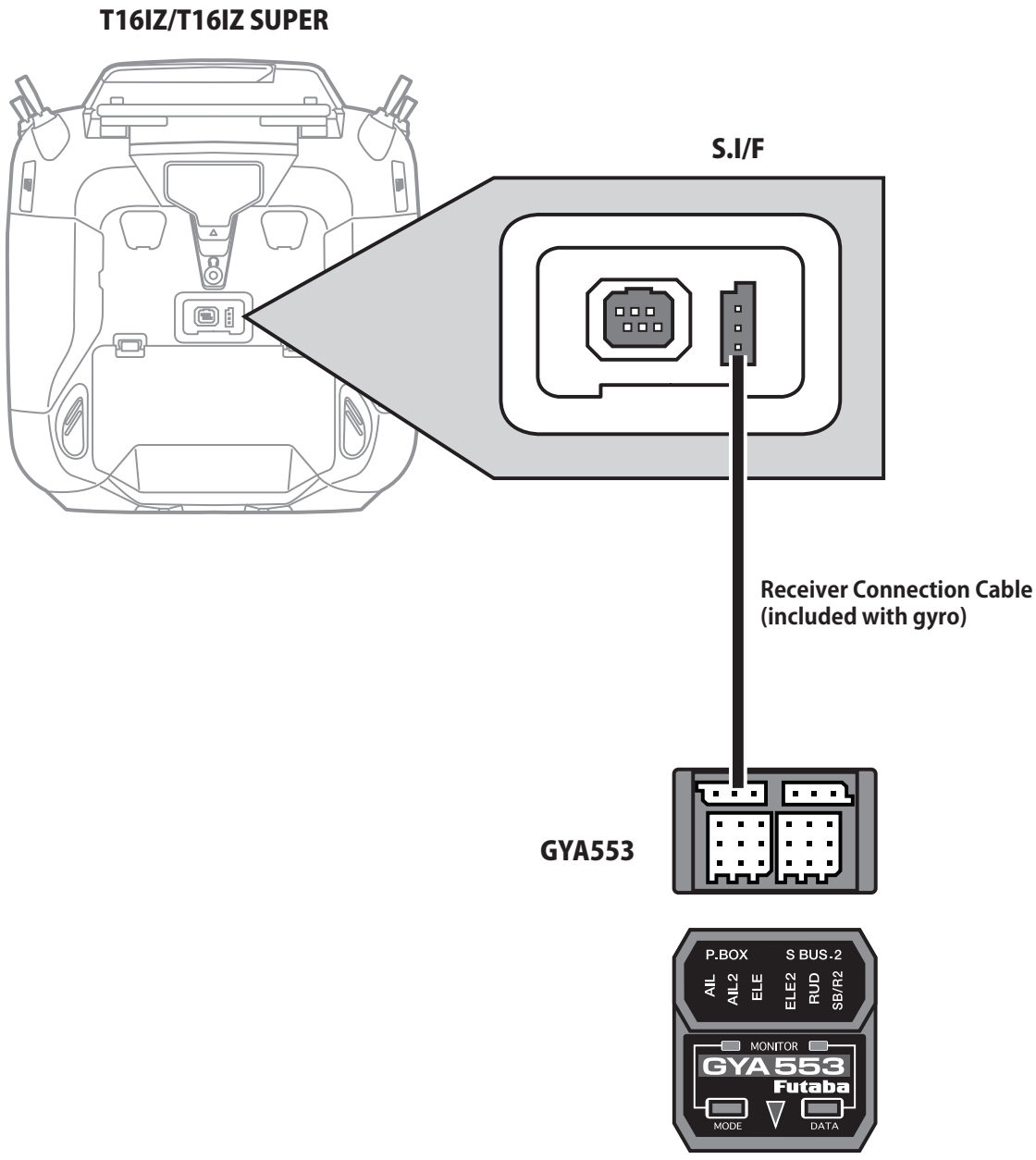
Futaba

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

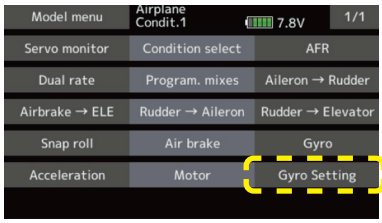


⚠ CAUTION

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

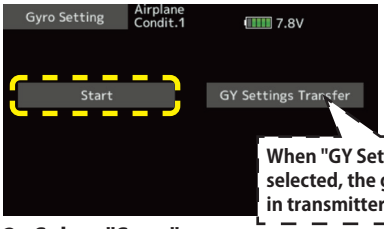
SETTING

1



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

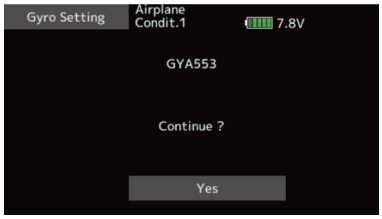
2



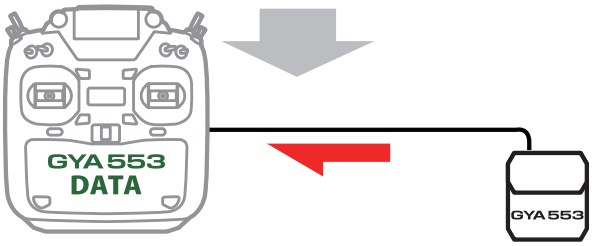
When "GY Settings Transfer" is selected, the gyro setting data saved in transmitter is written to the gyro.

2. Select "Start"

* At this time, if Gyro is not connected to transmitter by wire, this screen appears.

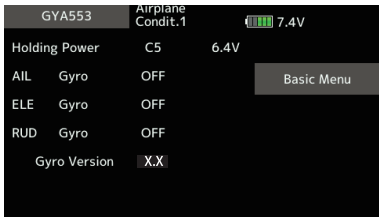


Tap "Yes" to display the GYA553 data saved in transmitter.



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

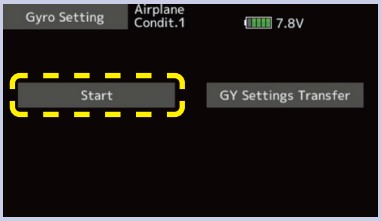
3

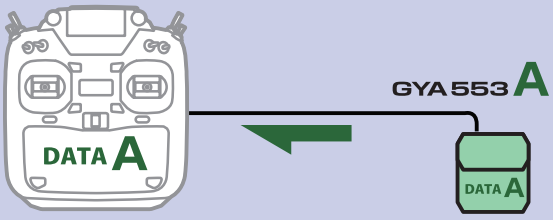


To Basic menu

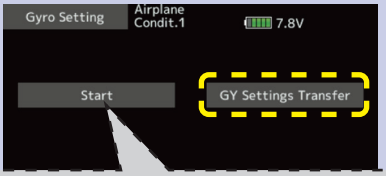
3. Home screen is displayed

◆ When copying data from Gyro A to Gyro B

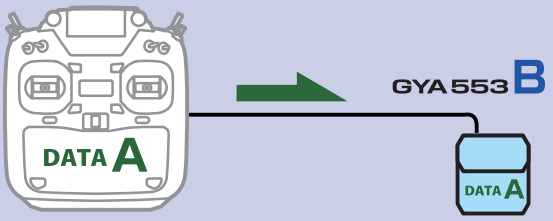




Connect the gyro A to the transmitter and press [Start]. (Enter the data of A into transmitter)



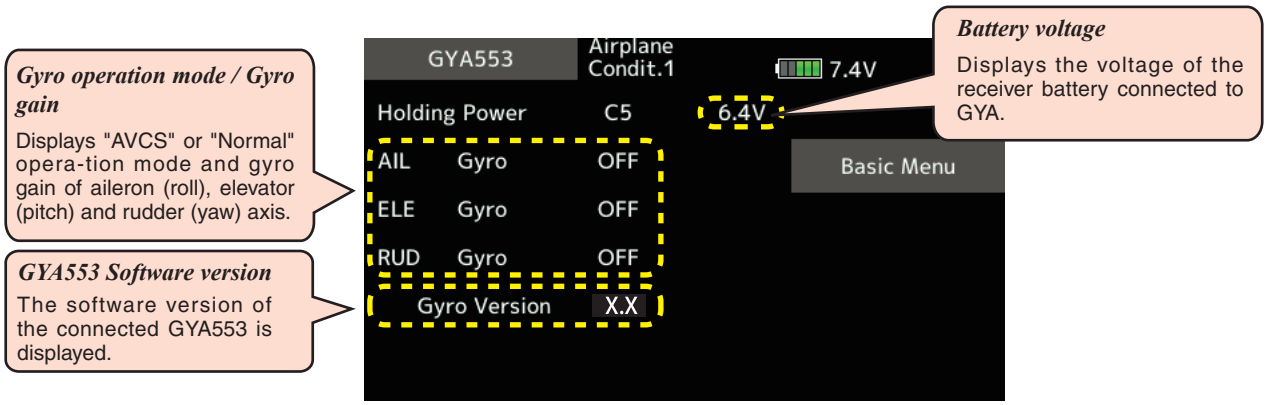
If you press Start here, the B data will be download to the transmitter and the A data will be lost.



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

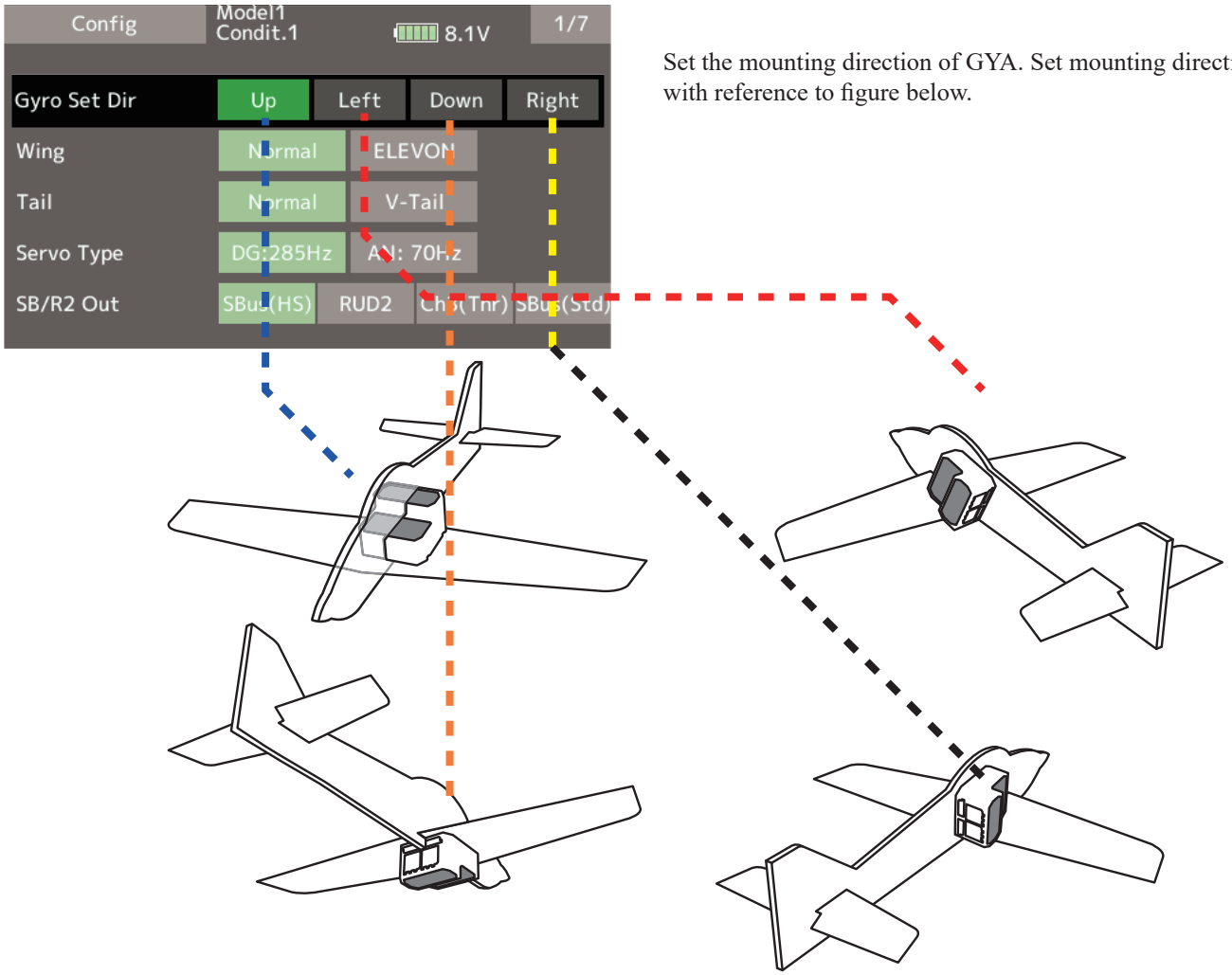
Home screen

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



Basic menu

Config 1/7 Gyro set mounting direction

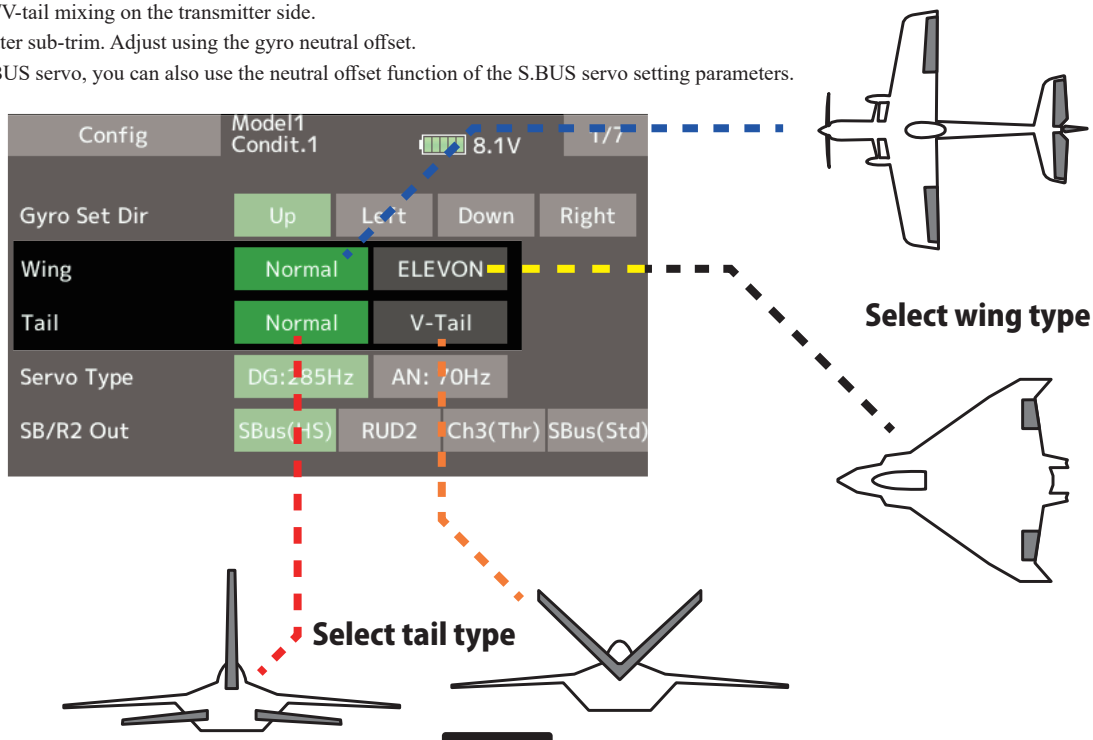


Set the mounting direction of GYA. Set mounting direction with reference to figure below.

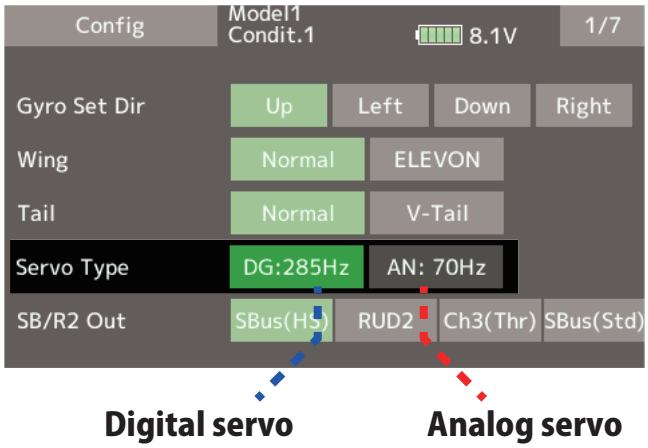
Config 1/7 WING/TAIL

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 1/7 Servo type



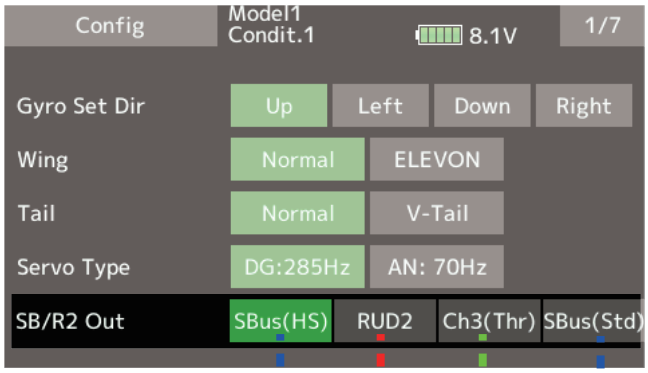
Select the servo type according to the servo to be used.

Digital servo → DG : 285 Hz

Analog servo → AN : 70 Hz

The stability of 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.

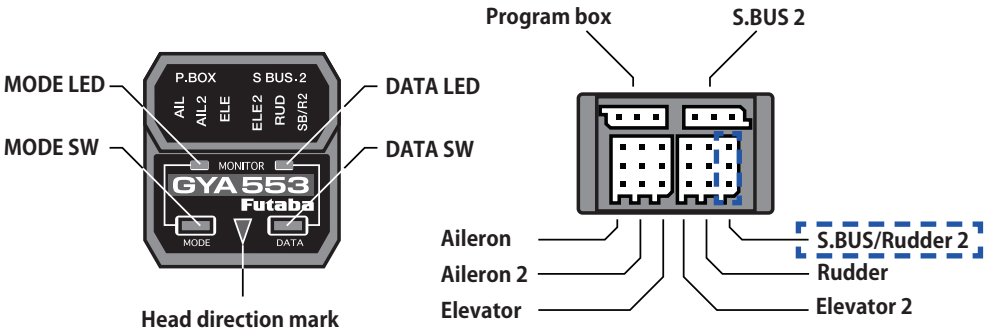
S.BUS(HS)
Connect SV servo

Rudder 2

Throttle

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

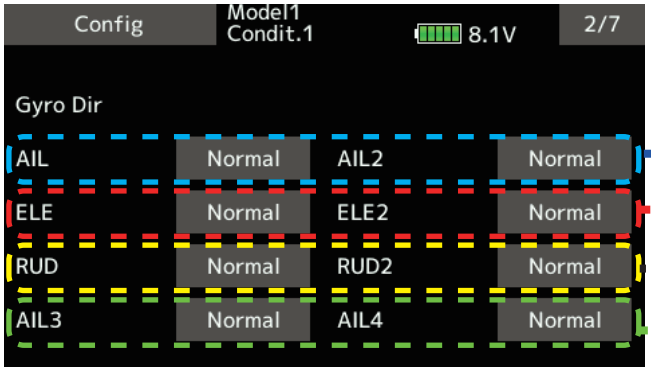
When using two rudder servos



Config 2/7 Gyro direction

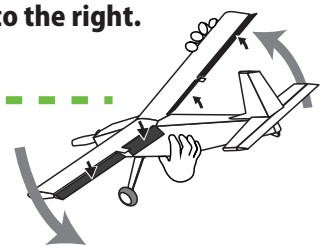
It is the direction settting of the gyro. Be careful as it will crash if the direction is reversed.

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

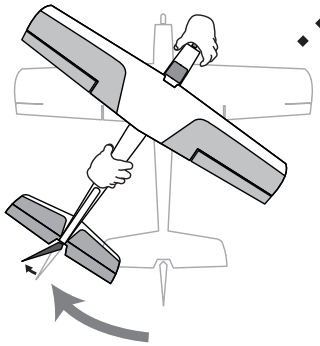


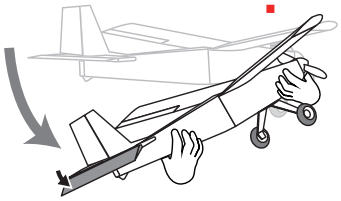
Tilt the airplane to the left on the ground and check that the ailerons operate to the right.

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.





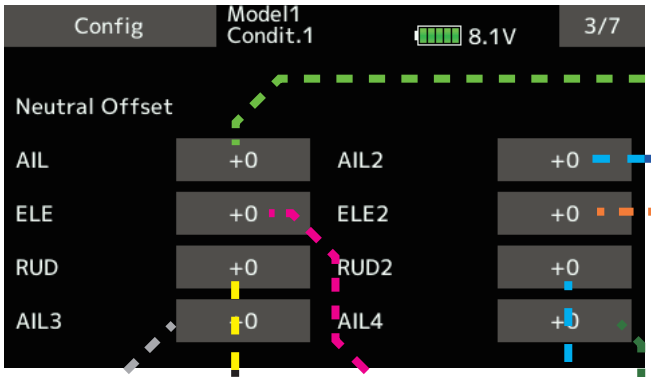
Raise the airplane with its nose upward and check that the elevator operates downward.

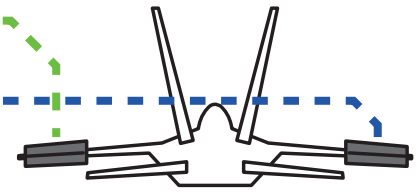
If the SB/R2 port output is set to "S.BUS(HS)" or "S.BUS(STD)", the setting menu will display AIL3 and AIL4 setting items.

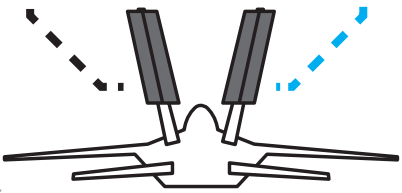
* AIL3 and AIL4 settings cannot be set with the button settings on the GYA553 main unit.

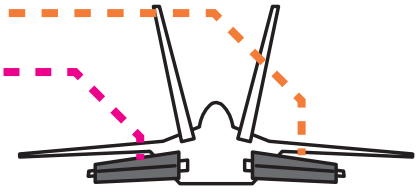
Config 3/7 Neutral offset

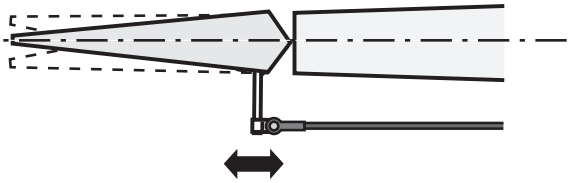
Neutral position setting for each servo.











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.

This will move the neutral to the desired position.

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

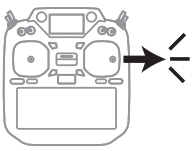
Config 4/7 5/7 Servo limit

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.

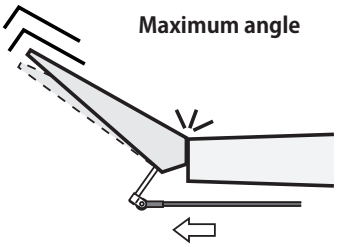
* AIL3 and AIL4 settings cannot be set with the button settings on the GYA553 main unit.

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

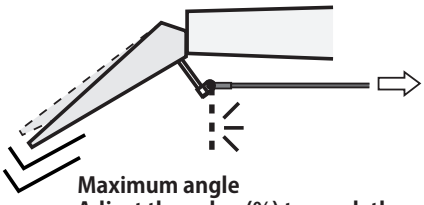


Stick to full right



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

Stick to full left



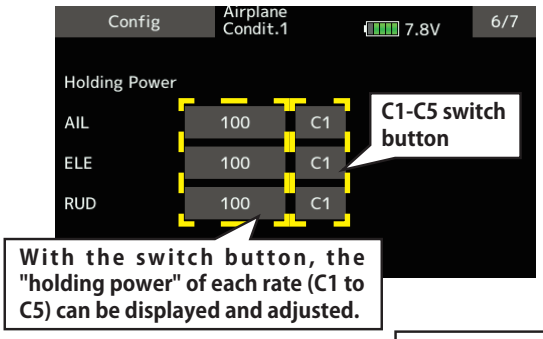
Maximum angle
Adjust the value (%) to reach the

Config 6/7 Holding Power

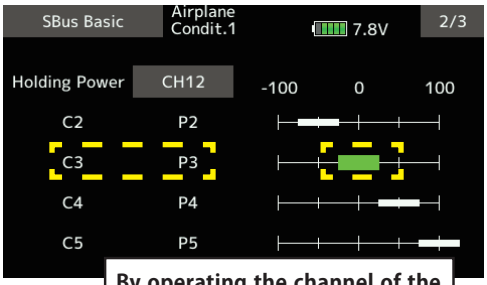
It is a function to adjust the posture holding force of the aircraft in AVCS mode.
Decreasing the value weakens the holding power and makes the operation feeling closer to the normal mode.
The current rate numbers C1 to C5 are displayed by operating the channel of the transmitter.

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

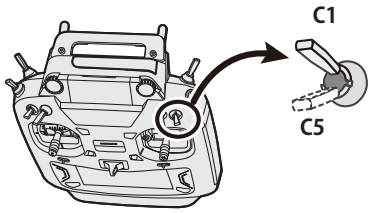


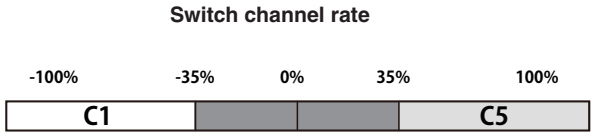
S.BUS Basic 2/3



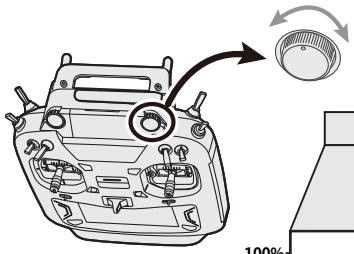
Display and adjust the current rate numbers C1 to C5 by operating the channel on the transmitter.

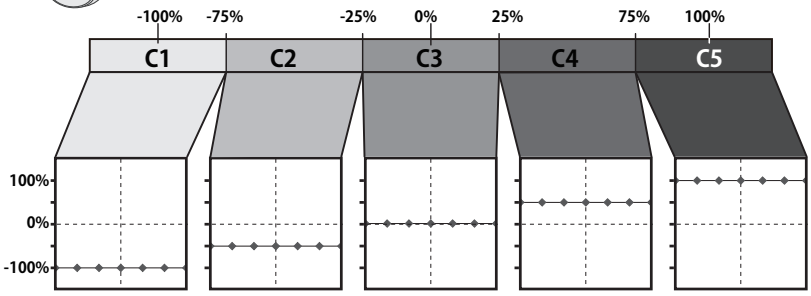
When set to SW of DG1 or DG2





When set to dial or lever



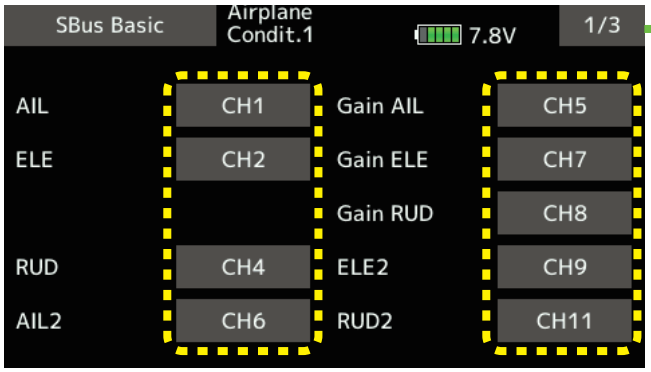


Config 7/7 Reset

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

SBUS Basic menu

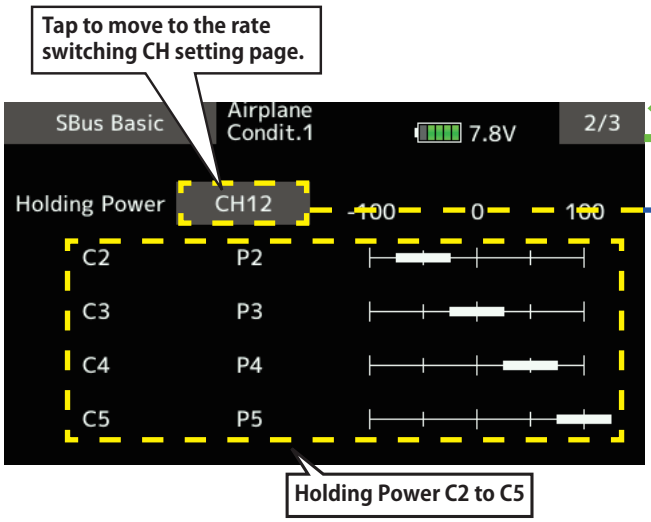
Set the CH for each function according to the transmitter to be used. Any unused functions should be set to INH (Inhibited).

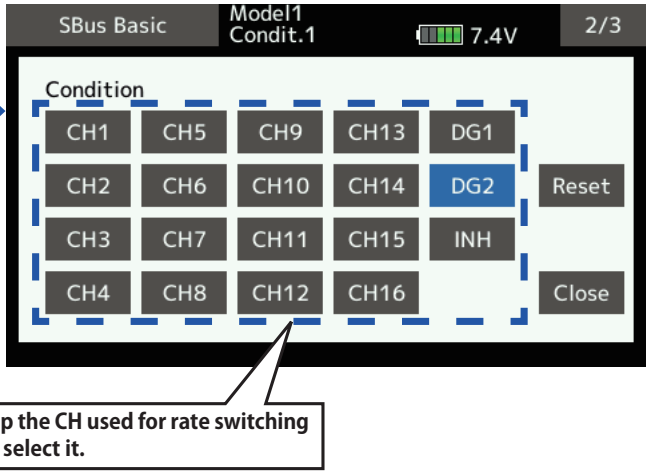


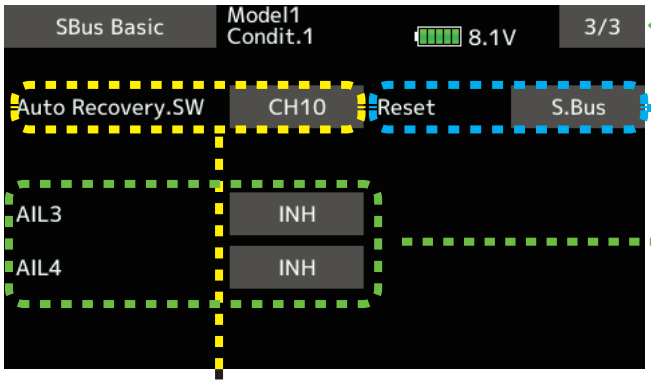
The channel of each function can be changed.

⚠WARNING

❗ 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 T16IZ must be connected.







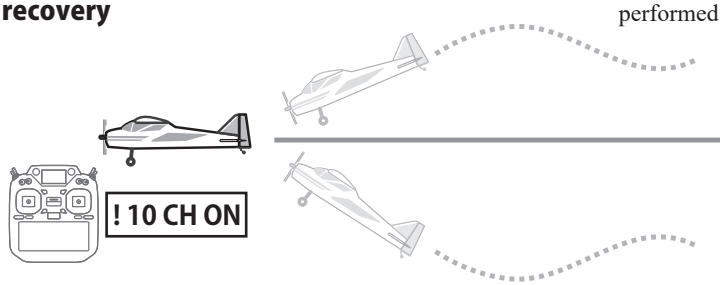
Reset each S.BUS function. It returns to the initial value.

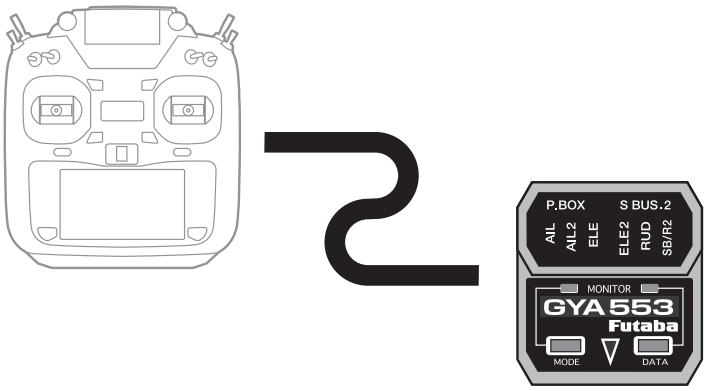
CH setting items for AIL3 and AIL4 are displayed on the final screen of the S.BUS basic setting screen. By setting the operation CH of AIL3 and AIL4, the gyro-controlled signal is output to the corresponding CH of the S.BUS output.

* 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




P.BOX
S BUS.2
AIL
AIL2
ELE
ELE2
RUD
SB/R2
MONITOR
GYA553
Futaba
MODE
DATA

Futaba®