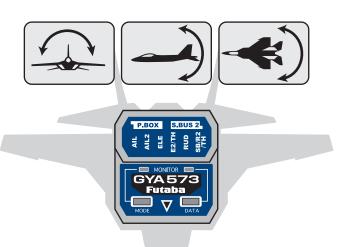


GYA553 GYA573

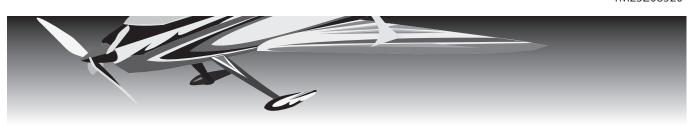


T32MZ(WC)

GYA553 Ver.3 ∼ **Ver.4 GYA573**

Setting manual

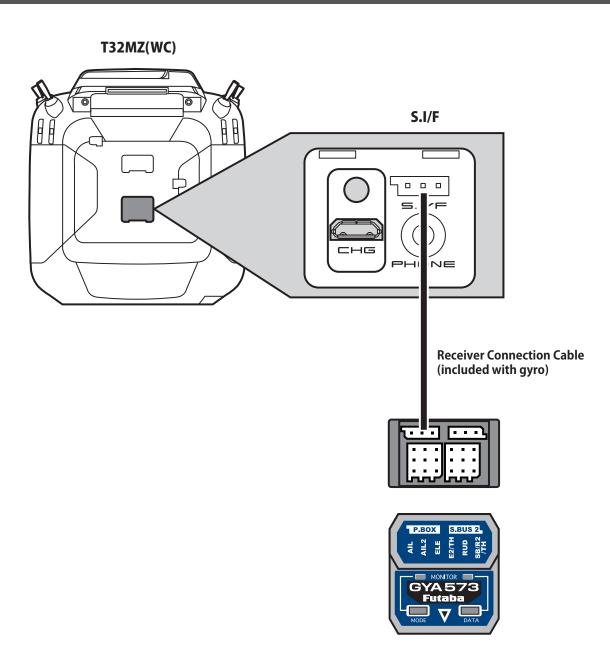
1M23Z08520



By installing the latest software on the T32MZ(WC), you can setting the airplane gyro GYA573 on the T32MZ(WC).

GYA553 Ver.4~ cannot be updated from GYA553 ~Ver.3.x

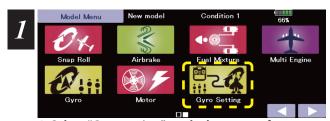
Connection T32MZ(WC) and GYA



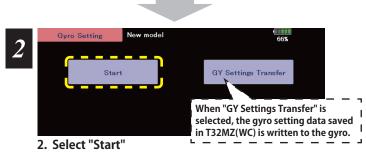
A CAUTION

Be sure to connect and disconnect the GYA and T32MZ(WC) connection cable with the power off.





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





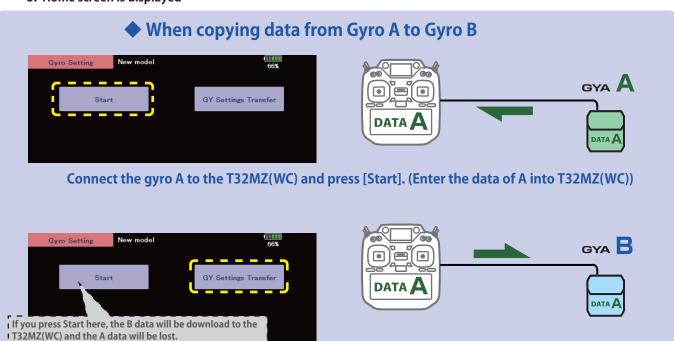
GYA DATA GYA

Select "Start"
This will download the gyro data to the T32MZ(WC).

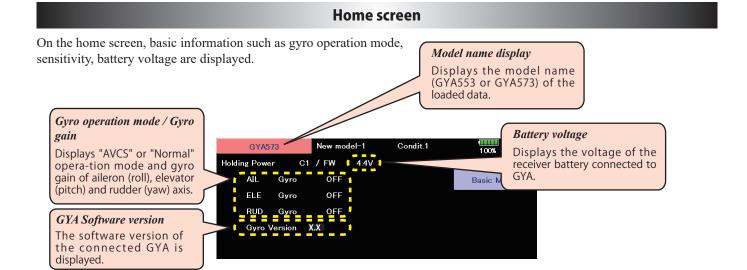
All Gyro OFF
RUD Gyro OFF
Gyro Version XX

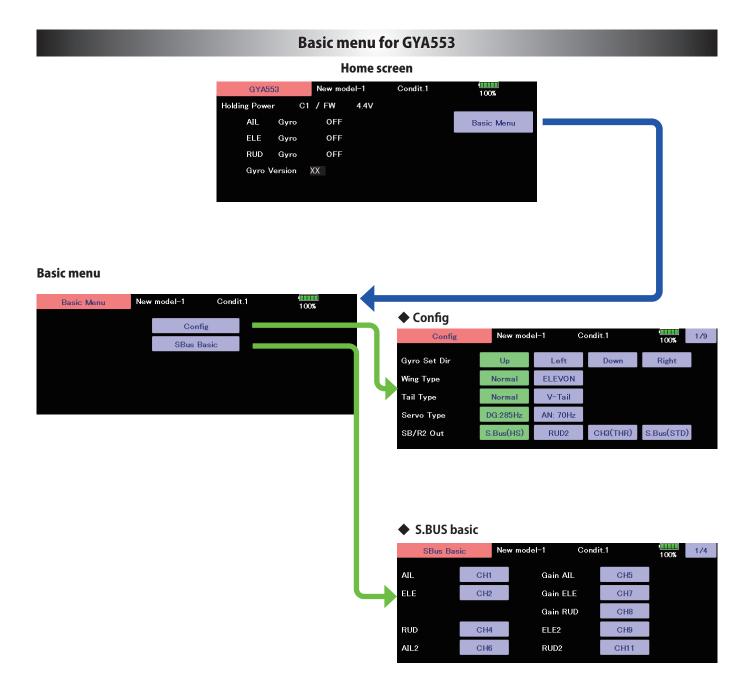
- *Once writing is complete, turn the gyro off and then on again. The data for the added functions will be deployed.
- *GYA573 data cannot be written to GYA553.

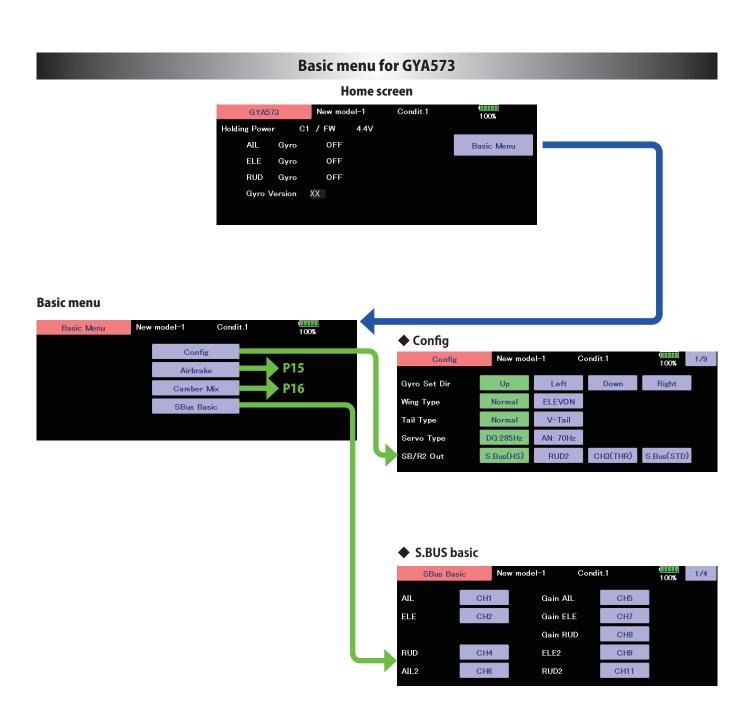
3. Home screen is displayed



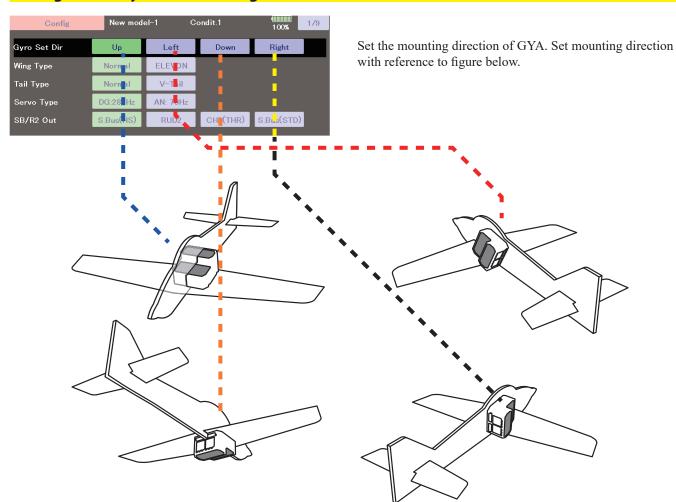
Connect Gyro B to T32MZ(WC) and press [GY Settings Transfer]. (Put data on A into gyro B)





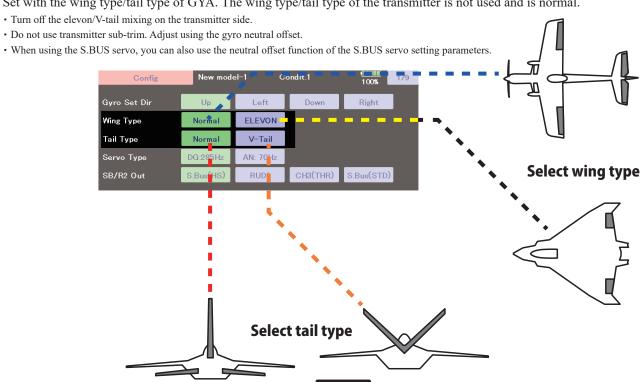


Config 1/9 Gyro set mounting direction

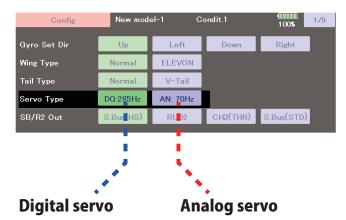


Config **WING/TAIL** 1/9

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



Config 1/9 Servo type

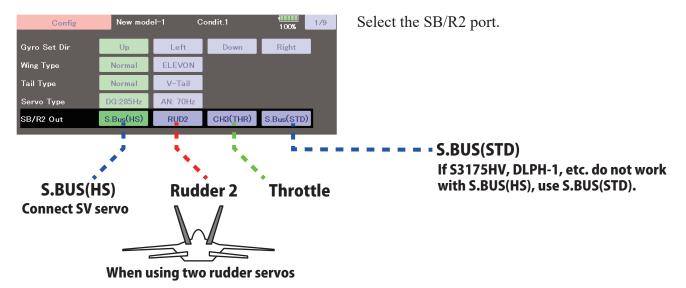


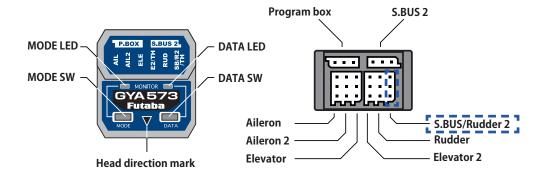
Select the servo type according to the servo to be used.

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 1/9 SB/R2 OUT

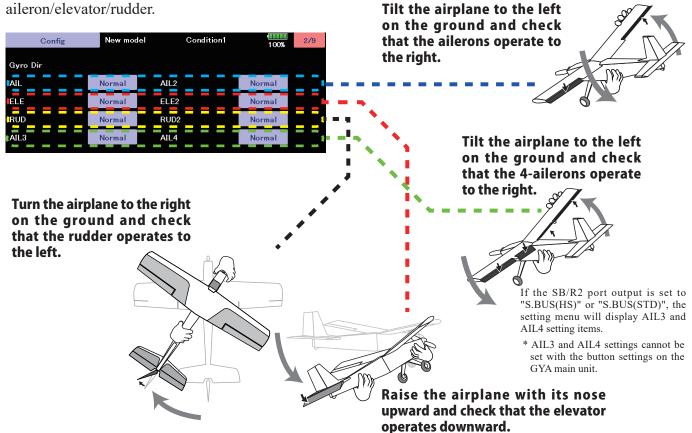




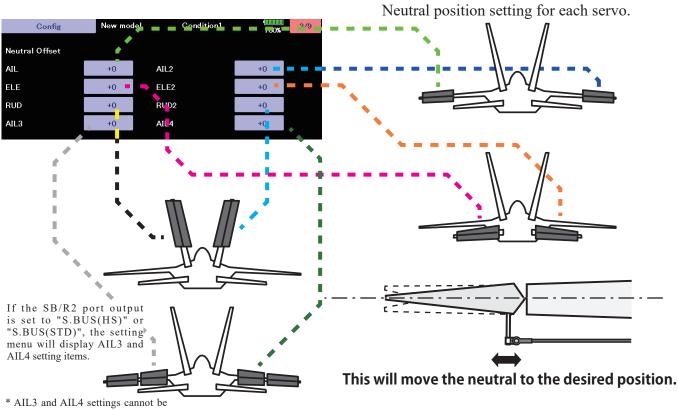
Config 2/9 Gyro direction

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

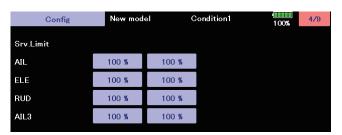


Config 3/9 Neutral offset



set with the button settings on the GYA main unit.

Config 4/9 5/9 Servo limit



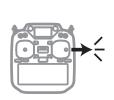
This is the limit setting for each servo. The position of the maximum operation is read into the gyro in the first setting.



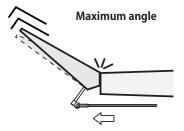
If the SB/R2 port output is set to "S.BUS(HS)" or "S.BUS(STD)", the setting menu will display AIL3 and AIL4 setting items.

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

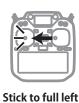
Aileron example

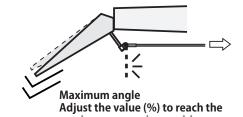


Stick to full right



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





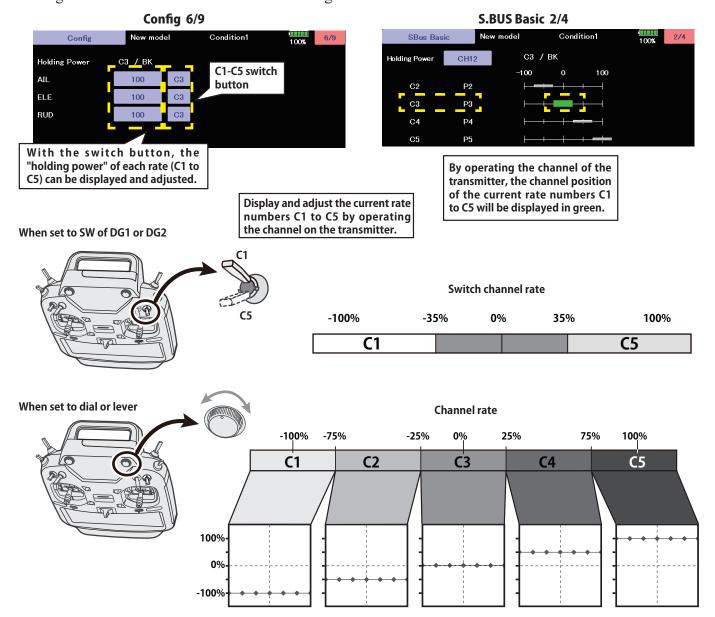
Config 6/9 Holding Power

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 7/9 4D Flight (Backward flight) Gyro Reverse Mode Adjustment

Page 7 is for setting the gyro reverse mode. This is a special setting for 4D backward flight. Select whether to reverse the control direction of the aileron, elevator, and rudder when flying backward. Normally, when flying backward, the steering direction of all the rudder is reversed, so the control direction of the gyro is also reversed.

Switching between forward (FW) and reverse (BK) uses the same CH12 signal as the holding force. Up from near the midpoint of the throttle stick is forward, and down is reverse.

For details on setting the switching point, please refer to the transmitter settings.

In gyro reverse mode, the gyro controls in the same direction as the aircraft's tilt. Switch between forward and reverse to check that the gyro control direction changes correctly.

Config 7/9

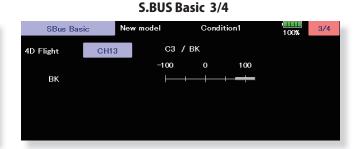
Config New model Condition1 7/9

4D Flight C3 / BK

All Normal

ELE Normal

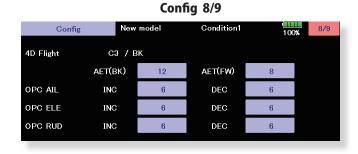
RUD Normal

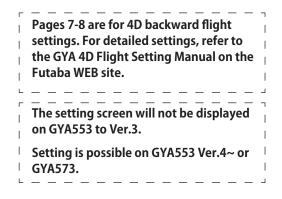


Config 8/9 4D Flight (Backward flight) Mode Adjustment

Page 8 is for setting the gyro reverse mode. This is a special setting for 4D backward flight.

The AET (BK) and AET (FW) functions estimate the aircraft's flight attitude during forward and backward transitions and optimize gyro control. If the aircraft's attitude changes quickly, decrease the value. If the attitude changes slowly, increase the value. The correction values for forward and backward transitions can be set independently. The setting range is 0 to 30. The OPC parameter adjusts the speed when the control amount increases and decreases. The setting range is 0 to 27. The values in the setting example are the standard setting values for SkyLeaf-ST. The optimal value will vary depending on the aircraft characteristics and flight style.





Config 9/9 Reset

Config 9/9

For GYA553

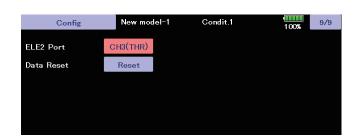


Reset each Config item. It returns to the initial value.

For GYA573



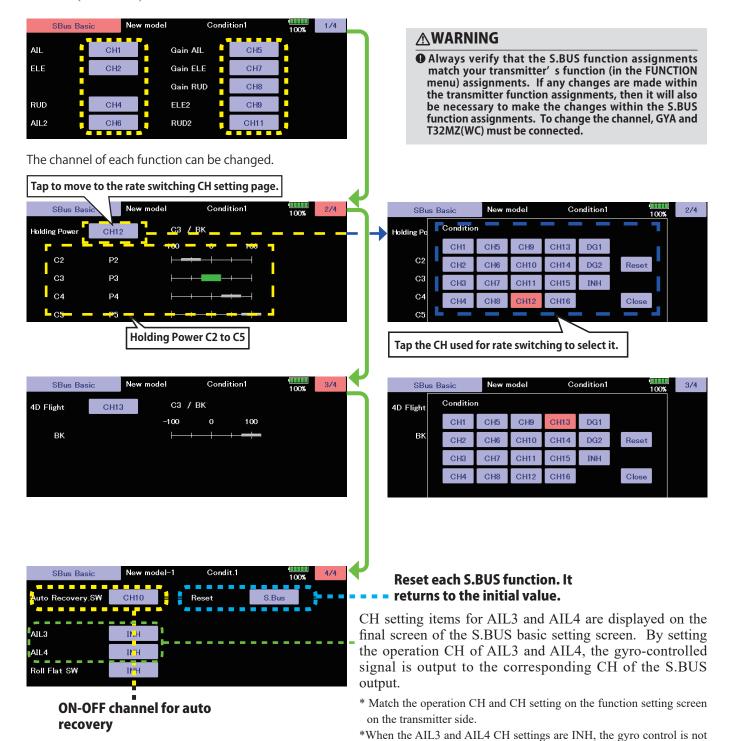
For GYA573, the E2/TH port can be set to ELE2 output or CH3 (THR) output.

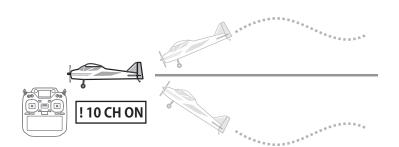


*For GYA573, air brake and camber mix settings will also be initialized.

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).

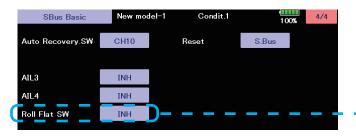




performed and the data sent from the transmitter is output as is.

SBUS Basic menu

For GYA573



This is the channel setting for the switch that turns roll flat ON/OFF.

The roll angle at which roll flat turns ON can be set by the pulse width at the ON position.

(Set using the AFR rate on the transmitter for this setting CH, etc.)

[Roll Flat]

This function keeps only the roll axis horizontal (roll angle 0°).

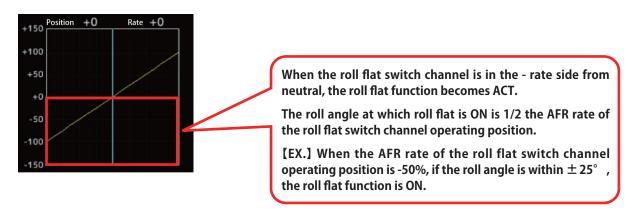
When used during landing approach, it keeps the roll axis horizontal, making aileron operation easier and allowing you to concentrate on throttle and elevator operation, making landing easier. It also maintains horizontality during inverted flight. The roll angle at which the roll flat function turns on should be set to 10° to 15° during landing, and 15° to 20° during normal flight, for a smooth flight.

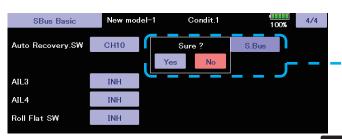
Conditions for the roll flat function to be ON (when all of the following conditions are met)

- 1) Roll Flat Switch Channel is set (not INH)
- 2) When the roll flat switch channel is in the position from neutral when viewed on the transmitter AFR setting screen.
- **3**) When the roll flat switch channel operation position is viewed on the AFR setting screen of the transmitter, when the rate value is Wp (%), the roll angle of the aircraft is within Wp/2 (degrees).
- **4**) When the aileron stick is in the neutral position.
- **5**) When the aircraft pitch angle is $\pm 60^{\circ}$ or less

(EX.) When the roll flat switch channel is CH15, if the operating position of CH15 is the AFR rate -50%, the roll angle at which the roll flat function will be turned ON will be within \pm 25°

When the Roll Flat Switch Channel is set to an AFR rate of -100% or less, the auto recovery mode operates.



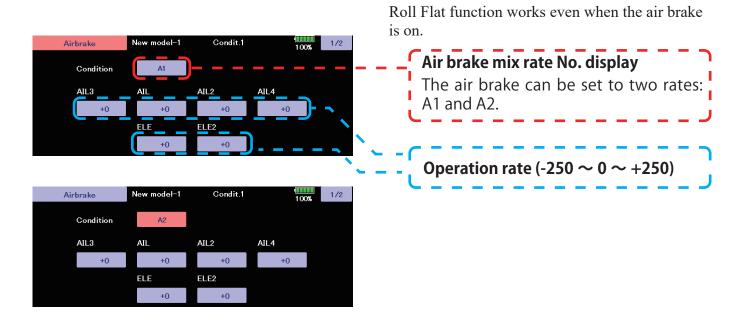


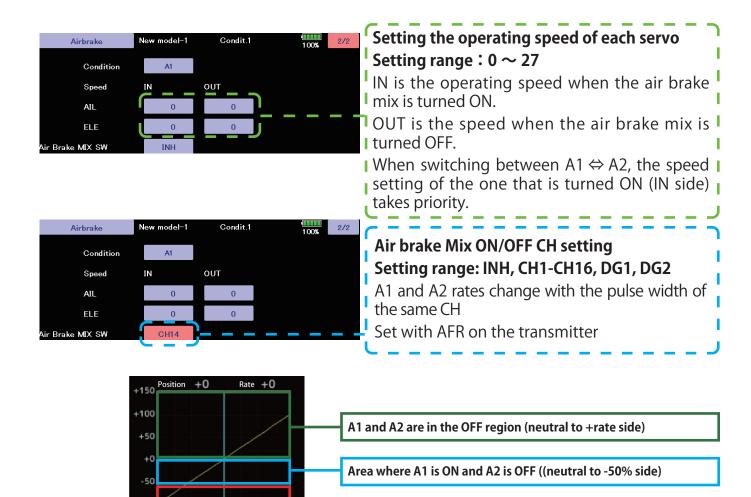
Reset the S.BUS basic items. After execution, the items will return to the factory default

Tap "Reset" and then "Yes" on the confirmation screen to reset to the initial value.

Air Brake

This function is the same as the air brake function of the transmitter. Two rates, A1 and A2, can be set. (The amount of operation is slightly less than that of the air brake function of the transmitter. It can also be used in AVCS mode where the air brake function of the transmitter cannot be used.)





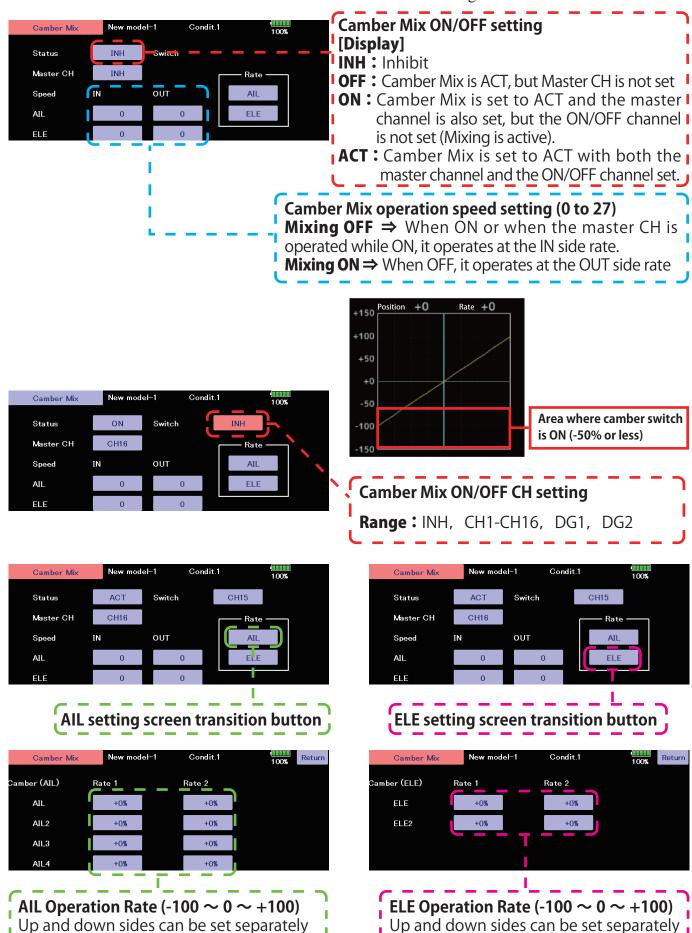
Area where A1 is OFF and A2 is ON (-50% or less)

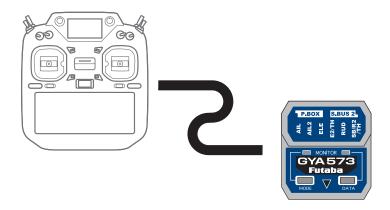
100

Camber mixing

This function is equivalent to the camber mixing function of the transmitter.

It can also be used in AVCS mode where the transmitter's camber mixing function cannot be used.





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