

GYA553 GYA573





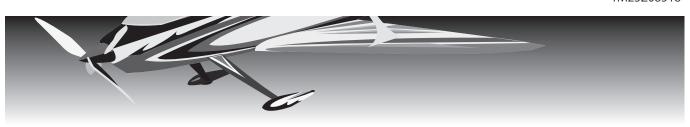


T26SZ,T16IZ(S)

GYA553 Ver.3 ∼ **Ver.4 GYA573**

Setting manual

1M23Z08518

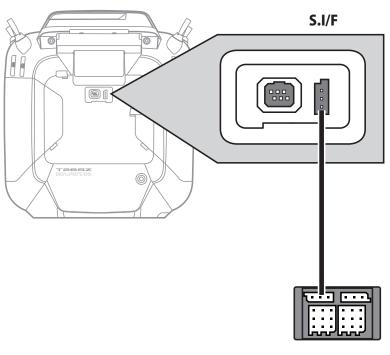


By installing the latest software on the T26SZ/T16IZ(S), you can setting the airplane gyro GYA573 on the T26SZ/T16IZ(S).

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

Connection T26SZ/T16IZ(S) and GYA

T26SZ/T16IZ(S)



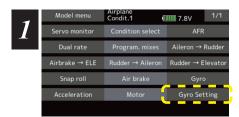
Receiver Connection Cable (included with gyro)



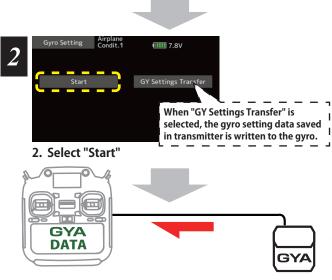
A CAUTION

Be sure to connect and disconnect the GYA and Transmitter connection cable with the power





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





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

3 Holding Power C1 / FW 7.0V

AIL Gyro OFF

RUD Gyro OFF

Gyro Version X.X

Model1

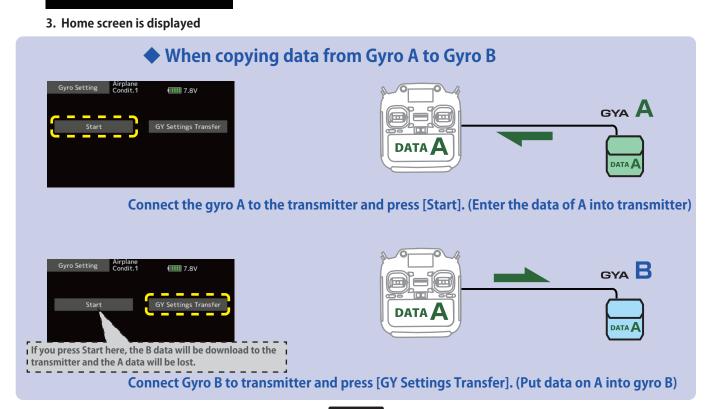
7.8V

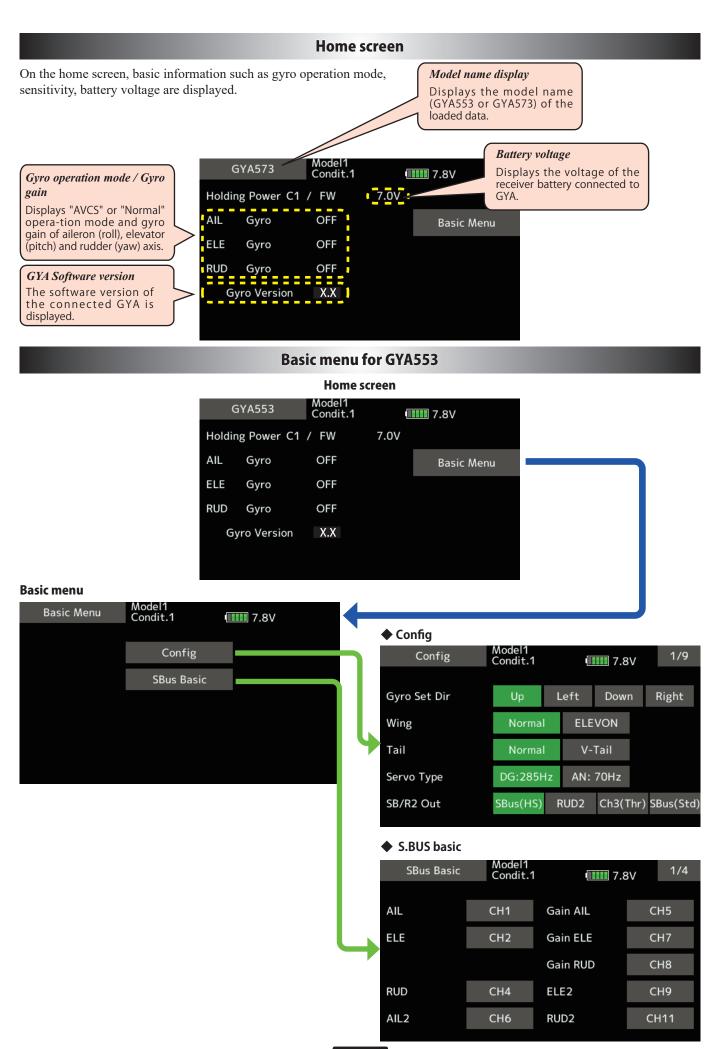
Basic Menu

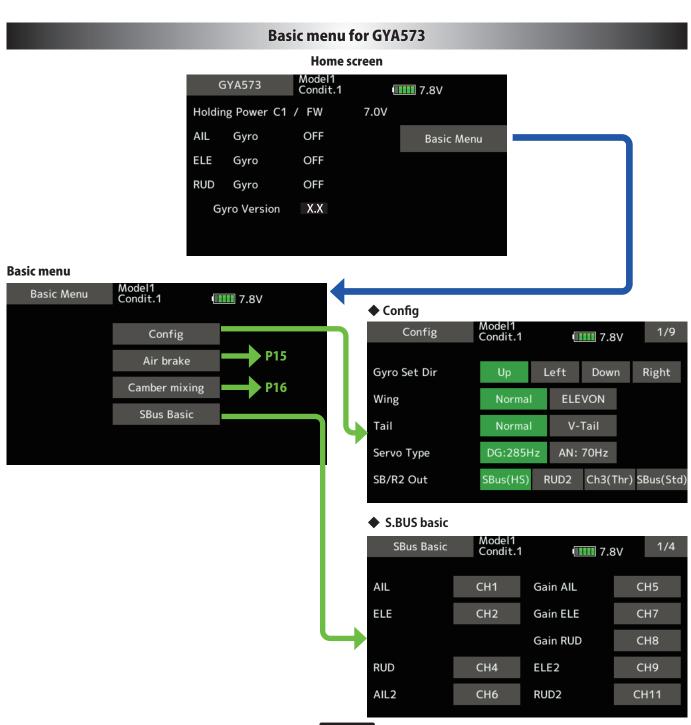
To Basic menu

To Basic menu

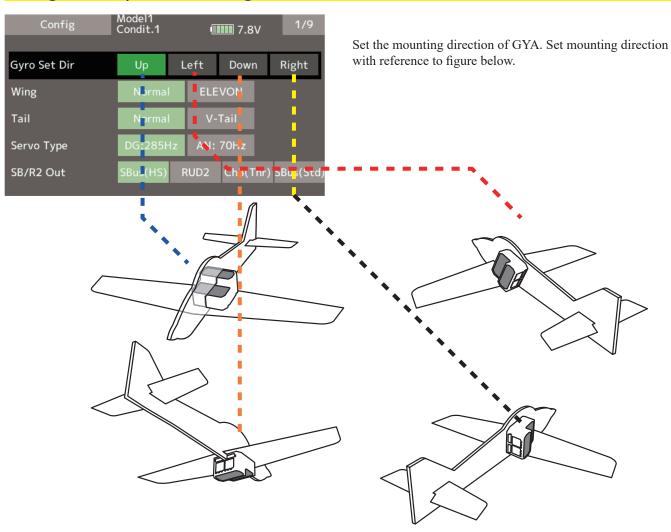
- *Once writing is complete, turn the gyro off and then on again. The data for the added functions will be deployed.
- *GYA573 data cannot be written to GYA553.





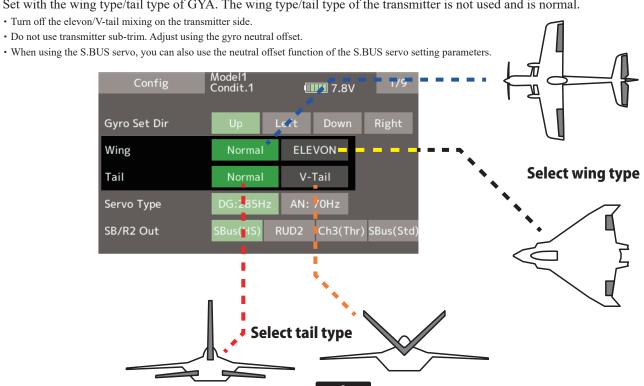


Gyro set mounting direction Config 1/9

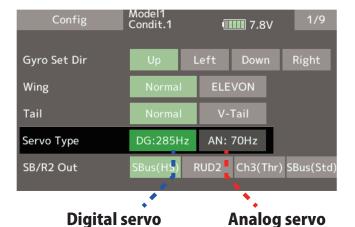


WING/TAIL Config 1/9

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.

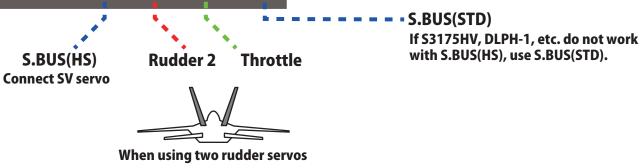
Digital servo → DG : 285 Hz Analog servo → AN : 70 Hz

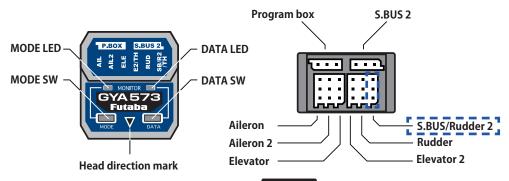
The stability of digital-servo mode of a flight increases in order to perform a high-speed control action.

Config 1/9 SB/R2 OUT



Select the SB/R2 port.

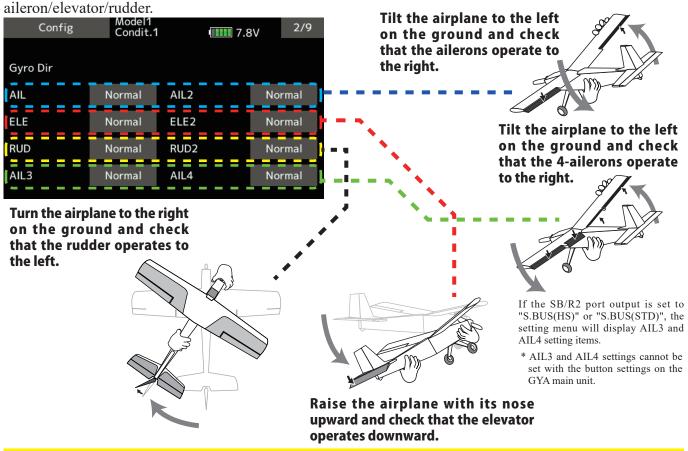




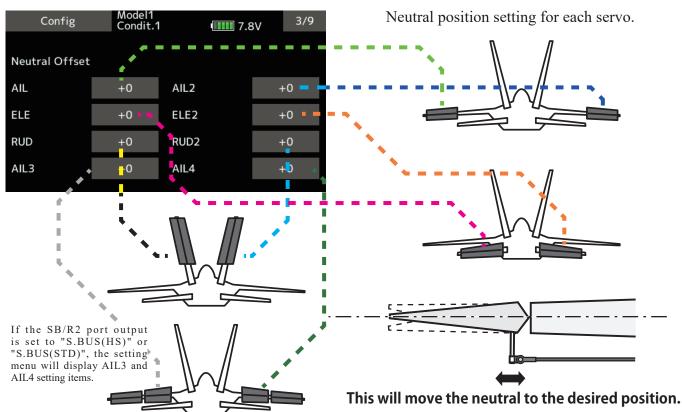
Config 2/9 Gyro direction

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

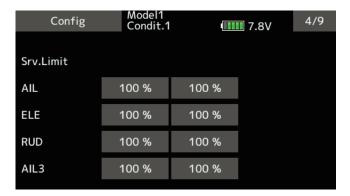


Config 3/9 Neutral offset

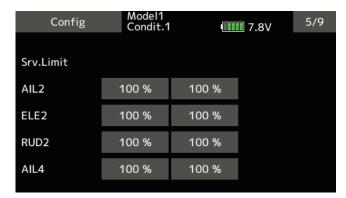


^{*} AIL3 and AIL4 settings cannot be set with the button settings on the GYA main unit.

Config 4/9 5/9 Servo limit

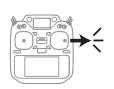


This is the limit setting for each servo. The position of the maximum operation is read into the gyro in the first setting.

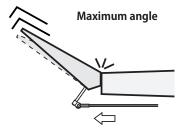


If the SB/R2 port output is set to "S.BUS(HS)" or "S.BUS(STD)", the setting menu will display AIL3 and AIL4 setting items.

Aileron example



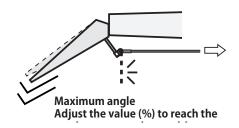
Stick to full right



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



Stick to full left



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

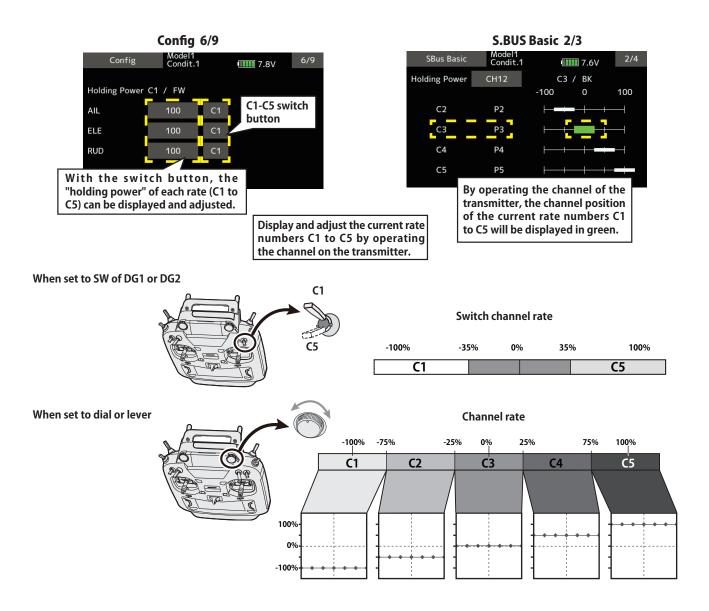
Config 6/9 Holding Power

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.



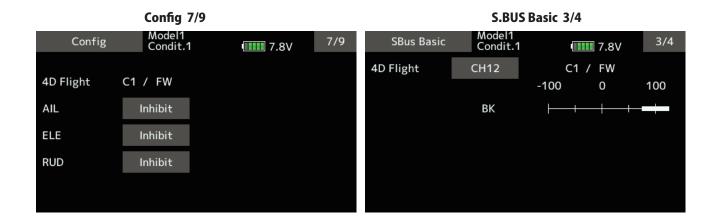
Config 7/9 4D Flight (Backward flight) Gyro Reverse Mode Adjustment

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 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.



Pages 7-8 are for 4D backward flight settings. For detailed settings, refer to the GYA 4D Flight Setting Manual on the Futaba WEB site.

The setting screen will not be displayed on GYA553 to Ver.3.

Setting is possible on GYA553 Ver.4~ or GYA573.

Config 9/9 Reset

For GYA553



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

For GYA573



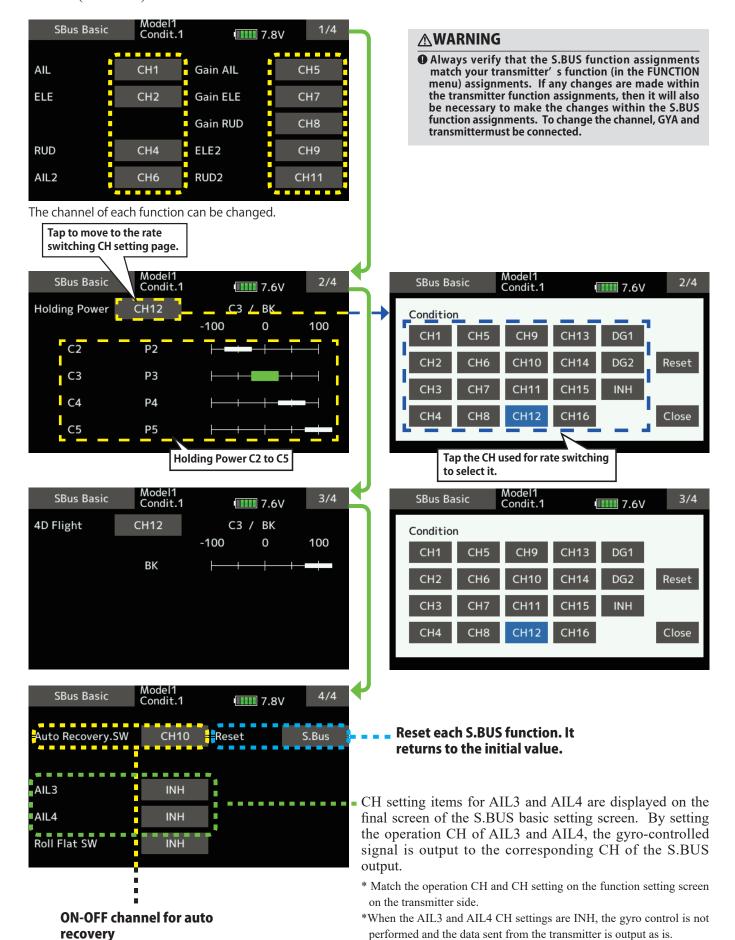
For GYA573, the E2/TH port can be set to ELE2 output or CH3 (THR) output.



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

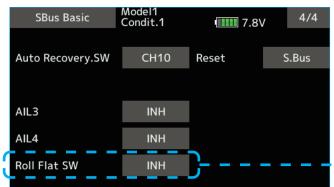
SBUS Basic menu

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



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]

+150

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)

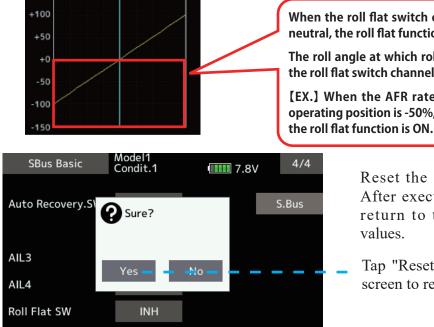
- 1) Roll Flat Switch Channel is set (not INH)
- 2) When the roll flat switch channel is in the position from neutral when viewed on the transmitter AFR setting screen.
- **3**) When the roll flat switch channel operation position is viewed on the AFR setting screen of the transmitter, when the rate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

Rate +0

5) When the aircraft pitch angle is \pm 60° 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.



When the roll flat switch channel is in the - rate side from neutral, the roll flat function becomes ACT.

The roll angle at which roll flat is ON is 1/2 the AFR rate of the roll flat switch channel operating position.

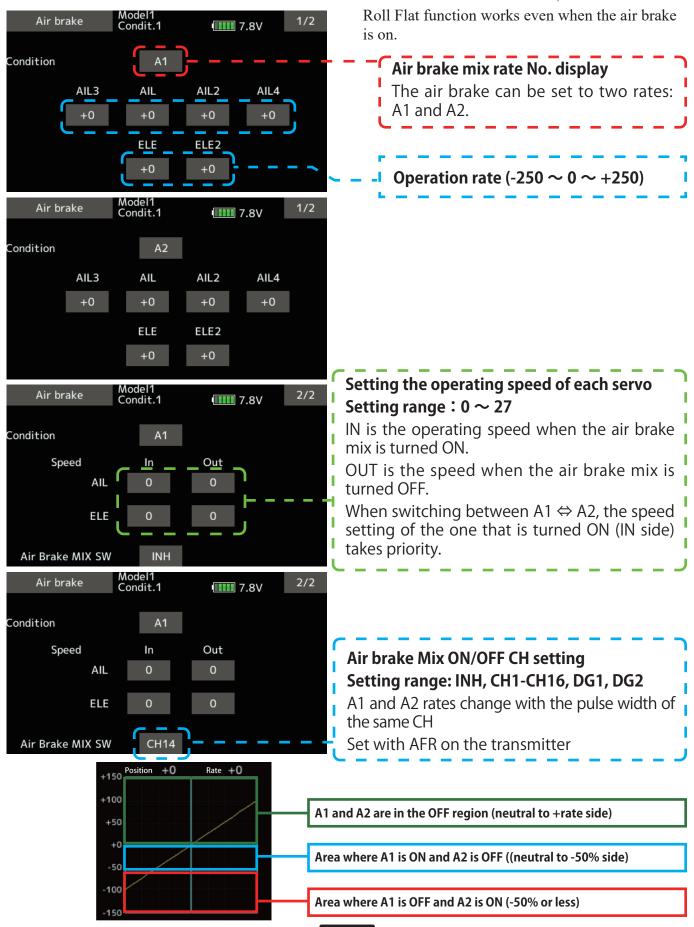
[EX.] When the AFR rate of the roll flat switch channel operating position is -50%, if the roll angle is within $\pm\,25^\circ$, the roll flat function is ON.

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

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

Air Brake

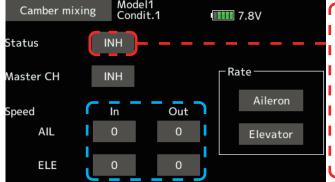
This function is the same as the air brake function of the transmitter. Two rates, A1 and A2, can be set. (The amount of operation is slightly less than that of the air brake function of the transmitter. It can also be used in AVCS mode where the air brake function of the transmitter cannot be used.)



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.



Camber Mix ON/OFF setting
[Display]

INH: Inhibit

OFF: Camber Mix is ACT, but Master CH is not set

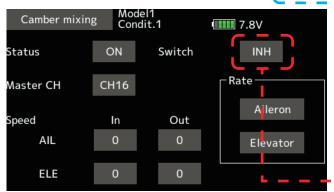
ON: Camber Mix is set to ACT and the master channel is also set, but the ON/OFF channel is not set (Mixing is active).

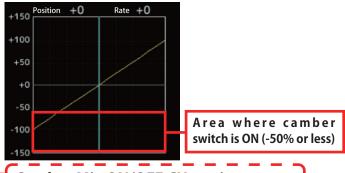
ACT: Camber Mix is set to ACT with both the master channel and the ON/OFF channel set.

Camber Mix operation speed setting (0 to 27)

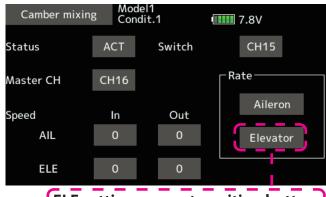
Mixing OFF ⇒ When ON or when the master CH is operated while ON, it operates at the IN side rate.

Mixing ON \Rightarrow When OFF, it operates at the OUT side rate





Model1 Condit.1 Camber mixing 7.8V Switch CH15 Status Rate CH16 Master CH Aileron Speed In Out AIL 0 0 Elevator **Camber Mix ON/OFF CH setting Range:** INH, CH1-CH16, DG1, DG2



AIL setting screen transition button

ELE

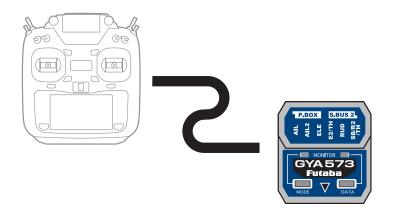


ELE setting screen transition button



AlL Operation Rate (-100 \sim 0 \sim +100)
Up and down sides can be set separately

ELE Operation Rate (-100 \sim 0 \sim +100) Up and down sides can be set separately



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