

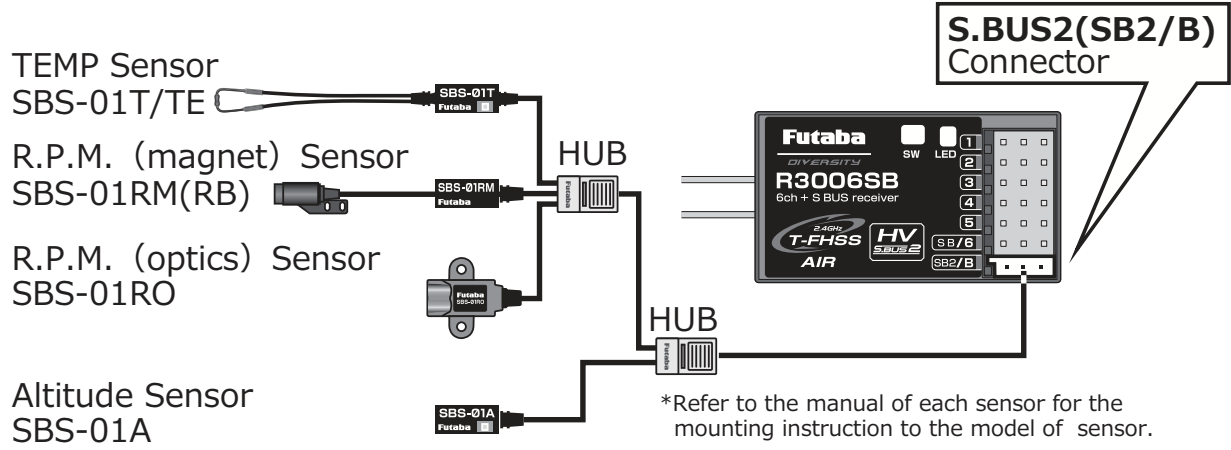


Various telemetry sensors (optional) information display and alarm setting

Various telemetry sensors (sold separately) are connectable to the S.BUS2 port of the R3006SB through a 3-way hub and relay terminals. The information of sensors connected at initialization can be viewed as long as 2 or more of the same kind of sensor are not used (for example, 2 temperature sensors).

Sensors that can be used with the T6K: Futaba SBS-01T, SBS-01RM, SBS-01RO, SBS-01A
 Robbe sensors that can be used with the T6K: Robbe TEMP125, VARIO-1712, VARIO-1672 (Setting change is needed in a SENSOR screen.)
 *Futaba does not sell Robbe sensor.

Sensor Connection



Method

Sensor information can be viewed by calling telemetry from the menu and calling the connected sensor display page. The detailed setting screen of that sensor can be called by selecting and pressing the sensor you want to select with the Jog key.

Refer to the receiver battery (RX-BATT) item for a description of key operation.

Select "TELEMETRY" from the menu with the Jog key.

BATT	6.3	RPM	0
EXT	0.0	RPM	0
ALT	37	ALT	1995

The sensor item of your choice is chosen by Jog key, and Jog key is pressed.

BATT	6.3	RPM	0
EXT	0.0	RPM	0
ALT	37	ALT	1995



Sensor set up

Common function



TEMP : Display of SBS-01T/TE(Optional), and alarm setup

*A temperature sensor must be installed in the aircraft.

TEMP is a screen which displays/sets up the temperature information from an optional temperature sensor.

Conversion of a display unit is performed by "TELEMETRY UNIT" of "PARAMETER".

The temperature of the model (engine, motor, battery etc.) which is flying can be displayed.

If it becomes higher or lower than the setting an alarm and/or vibration will ALARM you.

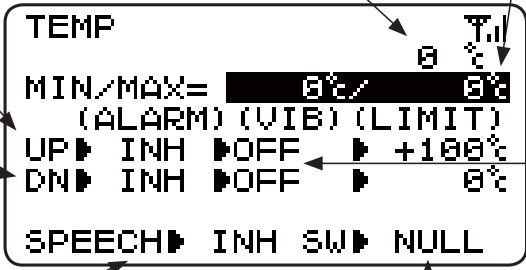
Common function

- Select [TMP] in the TELEMETRY screen and access the setup screen shown below by press the Jog key.

- "UP" will show that an alarm will start when the temperature rises above the set value.

- "DN" will show that an alarm will start when the temperature drops below the set value.

- You can hear the temperature through an earphone or headset, by activating the Speech function.



• Temperature

- The maximum and the minimum when powering ON are shown.

- Maximum and minimum date reset by pressing the Jog key for 1 second.

"VIB" type

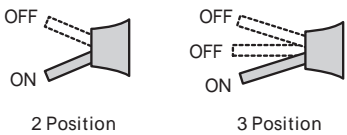
If the following types are selected, the transmitter will vibrate during the warning.

TYPE 1 → → → →

TYPE 2 → → → →

TYPE 3 → → → →

- Switch selection



ALARM set : Hot warning

1. Move the cursor to the UP:(ALARM) item.
2. Select the ACT mode by press the +-key.
3. Move the cursor to the UP:(LIMIT) [value] item.
4. Adjust the rate by press the +-key.
Initial value: +100
Adjustment range: -20 ~200
(UP:(LIMIT) DN:(LIMIT))

*When the + - key simultaneous press, the rate is reset to the initial value.
(To terminate the input and return to the original state, touch the END key.)

ALARM set : Low-temperature warning

1. Move the cursor to the DN:(ALARM) item.
2. Select the ACT mode by press the +-key.
3. Move the cursor to the DN:(LIMIT) [value] item.
4. Adjust the rate by press the +-key.
Initial value: 0
Adjustment range: -20 ~200
(UP:(LIMIT) DN:(LIMIT))

*When the + - key simultaneous press, the rate is reset to the initial value.
(To terminate the input and return to the original state, touch the END key.)



R.P.M : Display of SBS-01RM/RO/RB(Optional), and alarm setup

*A RPM sensor must be installed in the aircraft.

RPM is a screen which displays / sets up the RPM information from an optional RPM sensor.

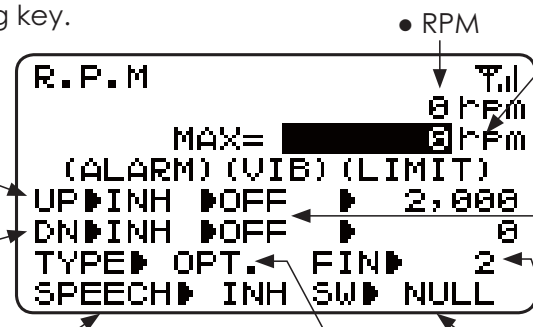
The RPM of the model (engine, motor, etc.) which is flying can be shown.

If it becomes higher or lower than the setting an alarm and/or vibration will ALARM you.

- Select [RPM] in the TELEMETRY screen and access the setup screen shown below by press the Jog key.

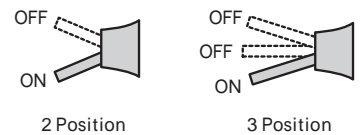
- UP: Indicates that the alarm will start when the RPM rises above the set value.
- DN: Indicates that the alarm will start when the RPM falls below the set value.

- You can hear the RPM data through an earphone or headset, by Activating the Speech function.



- "MAG.(MAGNETIC)" or "OPT. (OPTICAL)" is set according to the sensor you use.
SBS-01RM : MAGNETIC
SBS-01RO : OPTICAL

- Switch selection



- The maximum when powering ON are shown.
- Maximum date reset by pressing the Jog key for 1 second.

"VIB" type
If the following types are selected, the transmitter will vibrate during the warning.

TYPE 1 →

TYPE 2 →

TYPE 3 →

- In "OPTICAL", the number of blades("FIN") of the propeller (r o t o r) your model is entered.
- In "MAGNETIC", the gear ratio of your engine (motor) you are using is entered.

Common function

ALARM set : Over rotations

1. Move the cursor to the UP:ALARM item.
2. Select the ACT mode by press the +-key.
3. Move the cursor to the UP:(LIMIT) [value]item.
4. Ajust the rate by press the +-key.
Initial value: 2000rpm
Adjustment range: 0rpm~390,000rpm
(UP:(LIMIT) DN:(LIMIT))

*When the + - key simultaneous press, the rate is reset to the initial value.
(To terminate the input and return to the original state, touch the END key.)

ALARM set : Under rotations

1. Move the cursor to the DN:ALARM item.
2. Select the ACT mode by press the +-key.
3. Move the cursor to the UP:(LIMIT) [value]item.
4. Ajust the rate by press the +-key.
Initial value: 0rpm
Adjustment range: 0rpm~390,000rpm
(UP:(LIMIT) DN:(LIMIT))

*When the + - key simultaneous press, the rate is reset to the initial value.
(To terminate the input and return to the original state, touch the END key.)



ALTITUDE : Display of SBS-01A (Option), and alarm setup

*An altitude sensor must be installed in the aircraft.

ALTITUDE is a screen which displays / sets up the altitude information from an optional altitude sensor or GPS sensor. The altitude of the model which is flying can be known. If it becomes higher (low) than preset altitude, you can be told by alarm. To show warning by vibration can also be chosen. Data when a power supply is turned on shall be 0 m, and it displays the altitude which changed from there. Even if the altitude of an airfield is high,

that shall be 0 m and the altitude difference from an airfield is displayed. This sensor calculates the altitude from atmospheric pressure. Atmospheric pressure will get lower as you go up in altitude, using this the sensor will estimate the altitude. Please understand that an exact advanced display cannot be performed if atmospheric pressure changes in a weather situation.

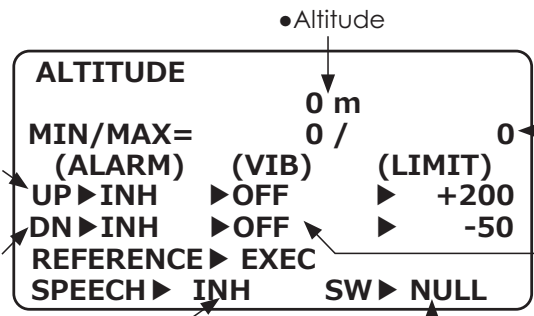
Conversion of a display unit is performed by "TELEMETRY UNIT" of "PARAMETER".

- Select [ALTITUDE] in the TELEMETRY screen and access the setup screen shown below by press the Jog key.

- The maximum and the minimum when powering ON are shown.
- Maximum and minimum date reset by pressing the **Jog key** for 1 second.

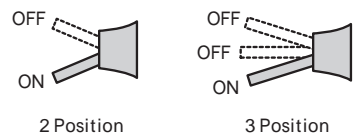
Common function

- "UP" indicates the alarm will start when the altitude reaches above your set value.
- "DN" indicates the alarm will start when the altitude reaches below your set value.



- You can hear the Altitude data through an earphone or headset, by Activating the Speech function.

• Switch selection



"VIB" type

If the following types are selected, the transmitter will vibrate during the warning.

TYPE 1 →

TYPE 2 →

TYPE 3 →

First, the set of a reference is required.

1. The model and transmitter to which the altitude sensor was connected are turned on.
2. Move the cursor to the [REFERENCE] of "EXEC" item.
3. Press the Jog key (1s or more press).

*Atmospheric pressure is changed according to the weather also at the same airfield. You should preset before a flight.

ALARM set : High side

1. Move the cursor to the UP:(ALARM) item.
2. Select the ACT mode by press the +-key.
3. Move the cursor to the UP:(LIMIT)[value]item.
4. Adjust the rate by press the +-key.
Initial value: +200(m)
Adjustment range: -500~+5000(m)
(UP:(LIMIT) DN:(LIMIT))

*When the + - key simultaneous press, the rate is reset to the initial value.
(To terminate the input and return to the original state, touch the END key.)

ALARM set : Low side

1. Move the cursor to the DN:(ALARM) item.
2. Select the ACT mode by press the +-key.
3. Move the cursor to the UP:(LIMIT)[value]item .
4. Adjust the rate by press the +-key.
Initial value: -50(m)
Adjustment range: -500~+5000(m)
(UP:(LIMIT) DN:(LIMIT))

*When the + - key simultaneous press, the rate is reset to the initial value.
(To terminate the input and return to the original state, touch the END key.)



VARIO : Display of SBS-01A (Option), and alarm setup

*An altitude sensor must be installed in the aircraft.

VARIO is a screen which displays / sets up the variometer information from an optional altitude sensor.

Conversion of a display unit is performed by "TELEMETRY UNIT" of "PARAMETER".

The variometer of the model which is flying can be known.

If it becomes higher or lower than the setting an alarm and/or vibration will ALARM you.

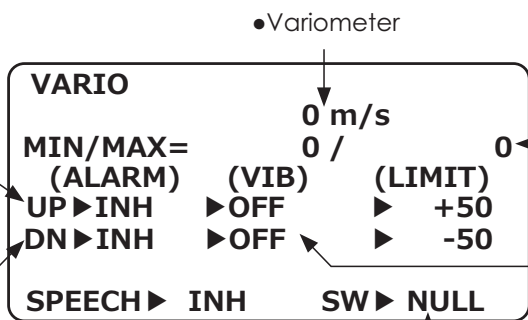
- Select [VARIO] in the TELEMETRY screen and access the setup screen shown below by press the Jog key.

- The maximum and the minimum when powering ON are shown.
- Maximum and minimum date reset by pressing the Jog key for 1 second.

• "UP" indicates the alarm will start when the vario reaches above your set value.

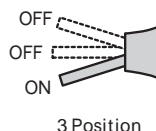
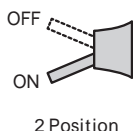
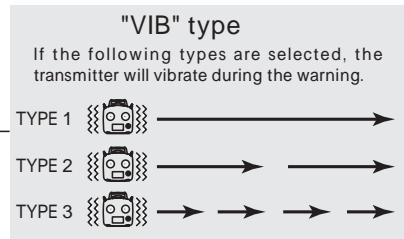
• "DN" indicates the alarm will start when the vario reaches below your set value.

• You can hear the Vario data through an earphone or headset, by Activating the Speech function.



• Variometer

• Switch selection



Common function

ALARM set : Rise side

1. Move the cursor to the UP:(ALARM) item.
2. Select the ACT mode by press the +-key.
3. Move the cursor to the UP:(LIMIT)[value]item.
4. Ajust the rate by press the +-key.
Initial value: +50(m/s)
Adjustment range: -150~+150(m/s)
(UP:(LIMIT) DN:(LIMIT))

*When the + - key simultaneous press, the rate is reset to the initial value.
(To terminate the input and return to the original state, touch the END key.)

ALARM set : Low side

1. Move the cursor to the DN:(ALARM) item.
2. Select the ACT mode by press the +-key.
3. Move the cursor to the DN:(LIMIT)[value]item.
4. Ajust the rate by press the +-key.
Initial value: -50(m/s)
Adjustment range: -150~+150(m/s)
(UP:(LIMIT) DN:(LIMIT))

*When the + - key simultaneous press, the rate is reset to the initial value.
(To terminate the input and return to the original state, touch the END key.)



SENSOR Sensor (Common)

Function

This screen registers the telemetry sensors used with the transmitter. When Futaba SBS-01T/E, SBA-01RO/RM/RB and SBS-01A sensor is used, this setting is unnecessary and the sensor can be used by simply connecting it to the S.BUS2 port of the receiver.

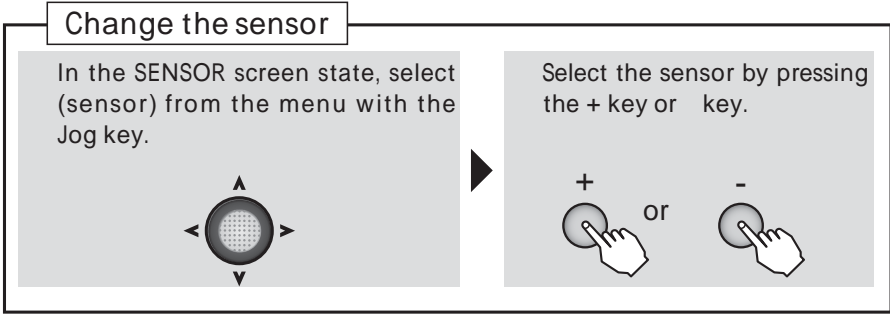
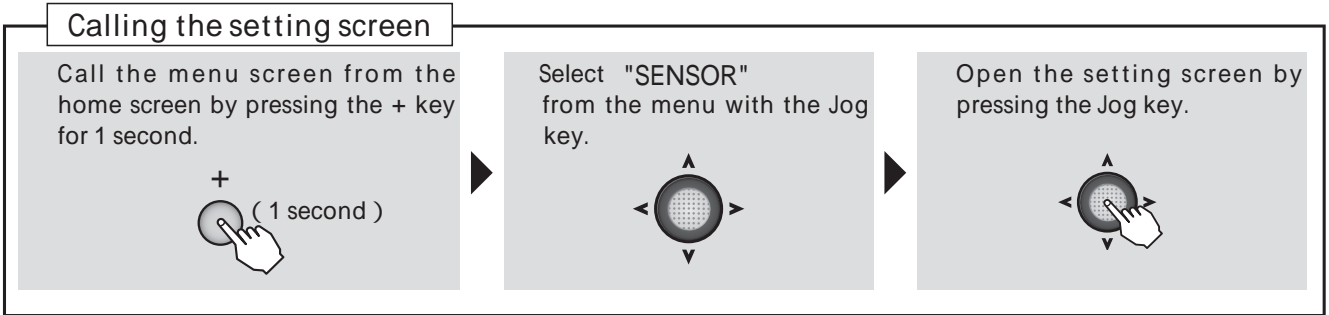
When using sensor to which the slot number was changed by other transmitters or Robbe sensor (TEMP125, VARIO-1712, 1672), they must be registered here.

[What is a slot?]

Servos are classified by CH, but **sensors** are classified in units called "**slot**". There are **slots** from **No. 1** to **No. 31**. **Altitude sensors** units may use **multiple slots**.
 T6K can use 1 of temperature, RPM and altitude sensor respectively. Any more sensor can't be used.

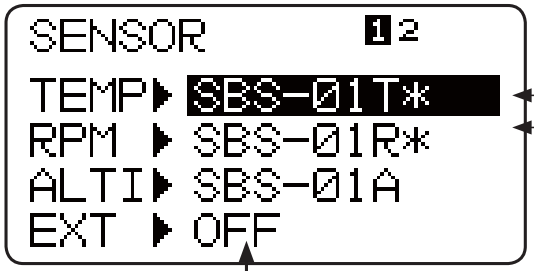
Method

Common function



The "SENSOR" of a menu is chosen, and Jog key press.

The kind of sensors.



SBS-01T, SBS-01TE is used.
 SBS-01RO, SBS-01RM, SBS-01RB is used.

OFF R3008SB : EXT battery voltage can be indicated.

R3008SB Receiver, CA-RVIN-700 (external voltage input cable sold separately) is necessary.

Soldered wiring work is necessary.



S.BUS

S.BUS servo link

(Common)

Function

An S.BUS(2) servo can memorize the channel and various settings you input. Servo setting can be performed on the T6K screen by wiring the servo as shown in the figure.

- * With some S.BUS(2) servos, there are some functions with cannot be used. If a function cannot be used, the display screen will change. (Only the function which can be used by a servo is displayed.)
- * After reading completion, with connection of the above figure, if a stick is moved, the test of operation of the servo can be operated and carried out.

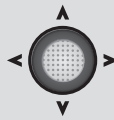
Method

Calling the setting screen

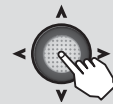
Call the menu screen from the home screen by pressing the + key for 1 second.



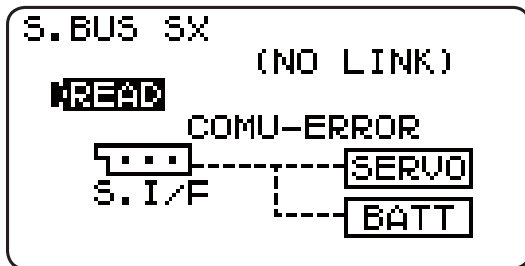
Select "S.BUS" from the menu with the Jog key.



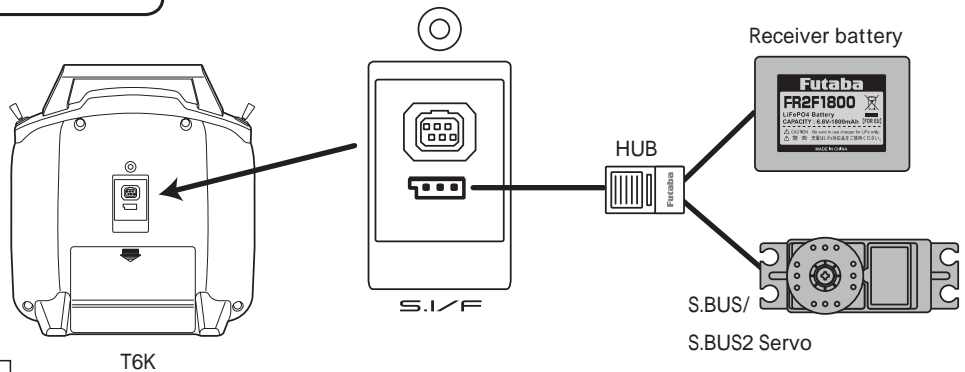
Open the setting screen by pressing the Jog key.



Common function

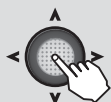


Connect a S.BUS servo to set up.



S.BUS Servo setting

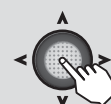
"READ" is chosen by Jog key, Press the Jog key for 1 second.



READ is completed and the item in which data of S.BUS servo and a setup are possible is displayed.

* "COMU-ERROR" : It is failure of READ. Check a servo and connection.

S.BUS servo is set up. "WRITE" is chosen and Jog key is pressed for 1 second.



The writing is done when "COMPLETE" is shown.

Next page S.BUS servo function



S.BUS Servo Description of function of each parameter

*There are a function which can be used according to the kind of servo, and an impossible function.

```
S.BUS SX      1 2
ID= 042-00069
[READ] [WRITE] [RESET]
COMPLETE!
CHAN▶ 1  DEAD▶ 0.25
          REVE▶ NORM
NEUT▶ 0.00
EPA▶ 100.0(L/R) 100.0
```

```
S.BUS SX      1 2
ID= 042-00069
[READ] [WRITE] [RESET]
STRE▶ 4.0  SPED▶ INH
BOST▶ 10%  STAR▶ INH
DAMP▶ 80   SMOT▶ ON
BSTM▶ OFF
```

ID = [ID]

Displays the ID of the servo whose parameters are to be read. It cannot be changed.

CHAN [Channel]

Channel of the S.BUS system assigned to the servo. Always assign a channel before use.

NEUT [Neutral O set]

The neutral position can be changed. When the neutral o set is large value, the servo's range of travel is restricted on one side.

EPA [Travel Adjust]

The left and right travels centered about the neutral position can be set independently.

DEAD [Dead band]

The dead band angle at stopping can be specified.

[Relationship between dead band set value and servo operation]

Small → Dead band angle is small and the servo is immediately operated by a small signal change.

Large → Dead band angle is large and the servo does not operate at small signal changes.

(Note) If the dead band angle is too small, the servo will operate continuously and the current consumption will increase and the life of the servo will be shortened.

REVE [Reverse]

The direction in which the servo rotates can be changed.

STRE [Stretcher]

The servo hold characteristic can be set. The torque which attempts to return the servo to the target position when the current servo position has deviated from the target position can be adjusted.

This is used when stopping hunting, etc., but the holding characteristic changes as shown below.

[Relationship between stretcher and servo operation]

Small → Servo holding force becomes weaker.

Large → Servo holding force becomes stronger.

(Note) When this parameter is large, the current consumption increases.



BOST [Boost]

The minimum current applied to the internal motor when starting the servo can be set. Since a small travel does not start the motor, it essentially feels like the dead band was expanded. The motor can be immediately started by adjusting the minimum current which can start the motor.

[Relationship between boost set value and servo operation]

Small → Motor reacts to a minute current and operation becomes smooth.

Large → Initial response improves and output torque increases. However, if the torque is too large, operation will become rough.

DAMP [Damper]

The characteristic when the servo is stopped can be set.

When smaller than the standard value, the characteristic becomes an overshoot characteristic. If the value is larger than the standard value, the brake is applied before the stop position.

Especially, when a large load is applied, overshoot, etc. are suppressed by inertia and hunting may occur, depending on the conditions. If hunting (phenomena which cause the servo to oscillate) occurs even though the Dead Band, Stretcher, Boost and other parameters are suitable, adjust this parameter to a value larger than the initial value.

[Relationship between damper set value and servo operation]

Small → When you want to overshoot. Set so that hunting does not occur.

Large → When you want to operate so that braking is not applied. However, it will feel like the servo response has worsened.

(Note) If used in the hunting state, not only will the current consumption increase, but the life of the servo will also be shortened.

BSTM ON/OFF [Boost ON/OFF]

OFF : It is the boost ON at the time of low-speed operation.(In the case of usual)

ON : It is always the boost ON.(When quick operation is hope)

SPED [Speed Control]

Speeds can be matched by specifying the operating speed. The speed of multiple servos can be matched without being affected by motor fluctuations. This is effective for load torques below the maximum torque.

However, note that the maximum speed will not be exceeded what the servo is capable of even if the servos operating voltage is increased.

STAR [Soft Start]

Restricts operation in the specified direction the instant the power is turned on. By using this setting, the first initial movement when the power is turned on slowly moves the servo to the specified position.

SMOT [Smoother]

This function changes smoothness of the servo operation relative to stick movement changes. Smooth setting is used for normal flight. Select the "OFF" mode when quick operation is necessary such as 3D.



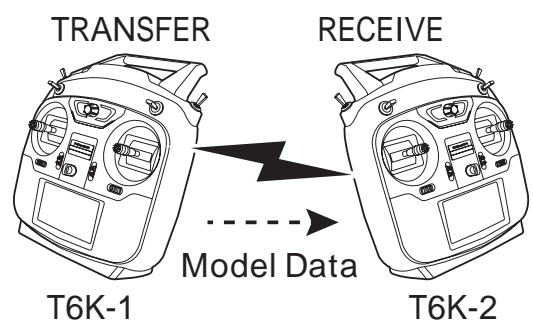
M TRANS Model transfer

(Common)

Function


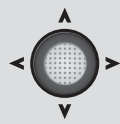

Transmission of model data is possible with T6K transmitters. Data transfer is performed by the radio. The MDL-TRANS function works with the current model you are using in the transmitter. As for the receiving transmitter, any data on the current model that is receiving the information will be over-written.

*T6K does not carry out normal operation during data transfer.



Method

Calling the setting screen

<p>Call the menu screen from the home screen by pressing the + key for 1 second.</p> 	<p>Select "M TRANS" from the menu with the Jog key.</p> 	<p>Open the setting screen by pressing the Jog key.</p> 
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Execution of transmission/reception

M TRANS

MODE ▶ **TRANSFER**

▶ **Execute**

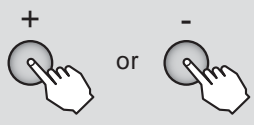

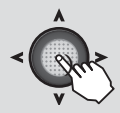
1 MODEL-01

MODE :
TRANSFER(T6K of data origin)/
RECEIVE(T6K which receives data)

Common function

Model transfer

MDL-TRANS between two T6K radios should be performed within 2-meter range.

<p>In each T6K, the + or - key is pressed and it is made "TRANSFER" and "RECEIVE".</p>  <p>"TRANSFER" : T6K of data origin "RECEIVE" : T6K which receives data</p> <p>Selection range : TRANSFER, RECEIVE</p>	<p>Select "Execute" with the Jog key.</p>  <p>Hold down the Jog key [each T6K].</p>  <p>(1 second)</p> <p>"COMPLETE" is displayed and the mode transfer is finished.</p>
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If data is not being transmitted, the receiving transmitter returns to normal operation 10 seconds after execution. At this time, "Failure" (not transmitting) is displayed.

CAUTION

- Always check servo direction prior to every flight as an additional precaution to confirm proper model date, hook ups, and radio function.

NOTE: MDL-TRANS between two T6K radios should be performed within a 2-meter range.



TIMER

Timer

(Common)

Function

The timer is convenient during a competition to set the specified amount of time or the flying time on a full tank of fuel.

- The timers can be set for each model. Since the timers can be set to match the model, they do not have to be reset each time the model is changed
- The type of timer can be selected from among up (UP), down (DOWN), and down stop (DN-STP). The up timer is counted up from 0 and the elapsed time is displayed on the screen. The down timer is counted down from the set time and the remaining time is displayed on the screen. The down stop timer stops the count at 0. Each timer can be set up to 99 minutes 59 seconds.
- Switches A to D, throttle stick (ST-THR), or power switch (PWR-SW) can be selected as the start/

stop switch (ON-SW). The ON/OFF direction can also be set. However, when the power switch was selected, the timer starts when the power switch is turned on.

- When the timer you want to reset is selected with the Jog key and the Jog key is pressed for 1 second at the home screen, the timer is reset. Switches A to D can be selected as the reset switch (RS-SW). The ON/OFF direction can also be set.
- The up/down timer audible alarm indicates the time by a beep every second, continuous beeping at 2 second intervals from 20 seconds before the set time, and a continuous beeping at a 1 second interval from 10 seconds before the set time.

Method

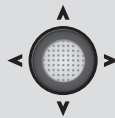
Common function

Calling the setting screen

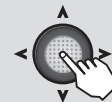
Call the menu screen from the home screen by pressing the + key for 1 second.



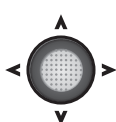
Select "TIMER" from the menu with the Jog key.



Open the setting screen by pressing the Jog key.



Select the item with the Jog key.



Time set up
Mode selection
ON Switch selection

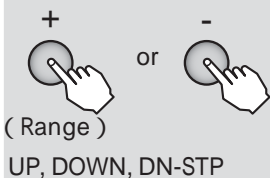
```
TIMER      0:00.0
TIME  ▶  10:00
MODE  ▶  UP
START ▶  SwA ▶ NULL
RESET ▶  SwA ▶ NULL
```

Reset Switch selection Switch direction

When the throttle switch is selected at switch selection, hold the throttle stick in the position you want to set the ON/OFF point at ON direction setting and set the ON/OFF position by pressing the Jog key for 1 second. The timer is turned ON at points higher than this position. The ON direction can be switched by pressing the + key or key.

Timer

Mode selection
Select timer mode from the "MODE" with the + or - key.



Timer time setting
Set the time by pressing the + key or key at each TIME (minutes):(second) item.

(Range)
0 ~ 99 minutes 59 seconds

Switch selection and ON direction setting

Select the switch by pressing the + key or key at the START or RESET item and set the ON direction by pressing the + key or key at the ON direction setting item.

(Switch setting range)
START: SwA ~ D, THR, PWR
RESET: SwA ~ D
(Switch ON direction)
3P SW: NULL (normally o), UP, UP&D, UP&C, CNTR, C&DN, DOWN
2P SW: NULL, UP, DOWN



Displaying the timer on the home screen

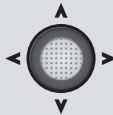
The set timer can be displayed on the home screen. (When a user name is not set, the Futaba logo is displayed.) When the home screen display is changed to timer by PARAMETER, the set timer is displayed.

Calling the setting screen

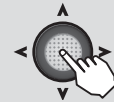
Call the menu screen from the home screen by pressing the + key for 1 second.



Select "PRMTR" from the menu with the Jog key.

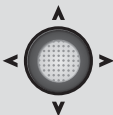


Open the setting screen by pressing the Jog key.



Parameter

Select "HOME-DSP" from the parameter 2 page with the Jog key.



Select "TIMER" by pressing the + key or - key.



End setting by pressing the END key.





TRAINR Trainer (Common)

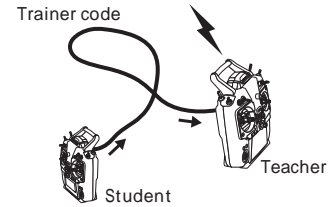
Function

Since the channel and operation mode used in training can be selected, the training difficulty can be set to match the student's level.

The trainer function can be used by connecting the instructor's transmitter to the student's transmitter using a special trainer cord (sold separately). Student operation is possible by instructor switch operation. If the student enters a dangerous situation, control can be immediately switched to the instructor.

- Four operation modes can be selected at each channel.
- The trainer switch is set to switch D.

When the trainer function is used, cancel the function assigned to the switch D. THR-HOLD of a helicopter can't be used.



CAUTION

Use the trainer function under the following conditions:

When the instructor uses a T6K transmitter, set the student's transmitter modulation to PPM (for conventional frequency transmitter). (When the student uses a T6K transmitter, the modulation mode does not have to be changed. A PPM signal is always output from the trainer jack.)
 Before flight always confirm that all the instructor and student channels operate normally as set.
 Always insert the trainer cord as far as it will go and take measures so that the cord will not work loose during use.
 Always remove the high frequency module of the student's transmitter. (For module type)
 Never turn on the student's transmitter power switch.

Trainer function operation modes

FNC mode: The channel set to this mode can be controlled by the student using the mixing set at the instructor's transmitter. *Student settings are returned to their initial value in advance. Next, reverse function makes all channels normal.

NOR mode: The channel set to this mode is controlled by signals from the student's transmitter. (The instructor and student settings must be the same.)

OFF mode: The channel set to this mode cannot be controlled by the student. It can only be controlled by the instructor.

However, channels not provided at the student's transmitter are controlled by the instructor regardless of the above settings.
 When other models are selected, the trainer function is deactivated, but the channel settings remain.

Example of use

When the FUNC mode is set at the stick channel, helicopter stick operation training is possible even with a 4EX transmitter (4 channels for aircraft).

Control by the instructor is possible by setting only the training channel matched to the student's level to the NORM mode and setting the other channels to the OFF mode.

Trainer Cords

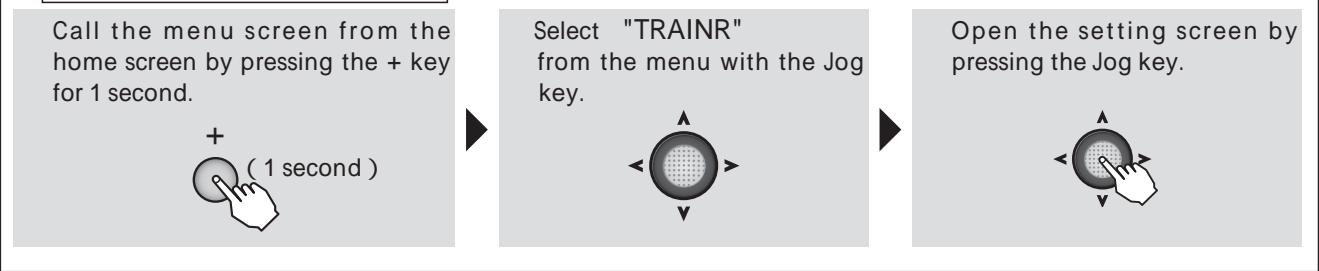
Instructor	Student	Trainer Cords
6K	10C, 9C, 7C, 6EX, 4EX	T12FG (FUTM4405)
	18MZ, 18SZ, 14MZ, 14SG, FX-22, 12Z, 12FG, 8FG, 6K, 8J, 6J	T12FG (FUTM4405) and 9C (FUTM4415) Trainer Cords
18MZ, 18SZ, 14MZ, 14SG, FX-22, 12Z, 12FG, 8FG, 10C, 9C, 7C, 8J, 6J, 4EX	6K	

Common function

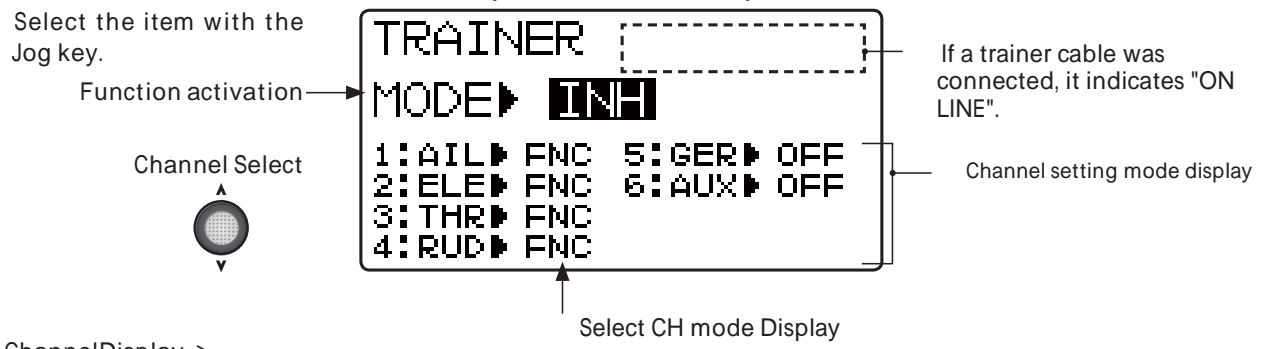


Method

Calling the setting screen



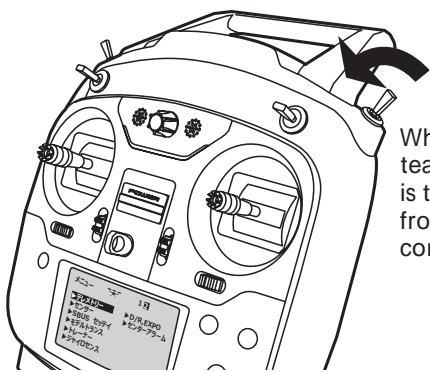
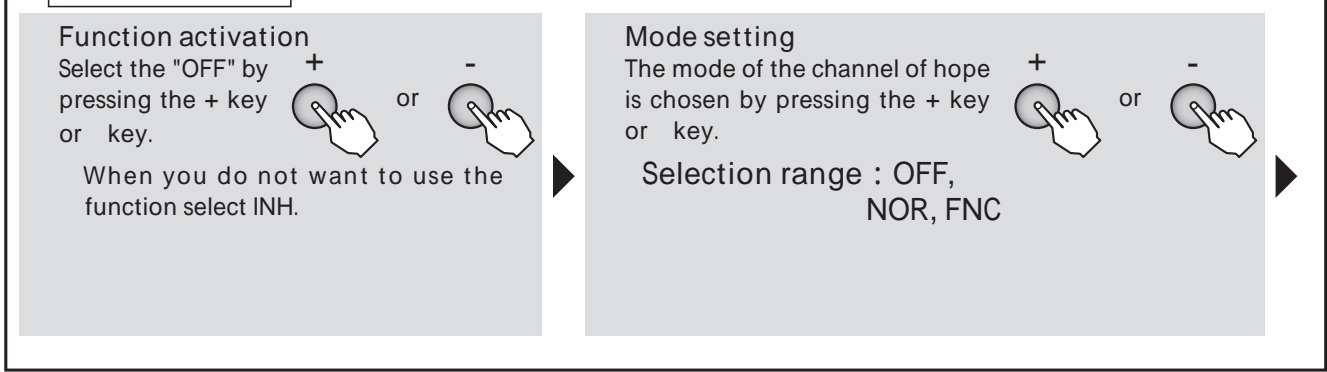
(Trainer function)



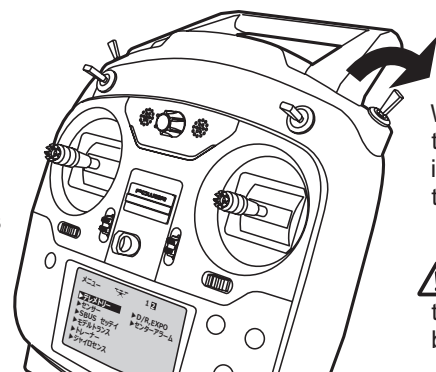
< ChannelDisplay >

AIRPLANE (2AIL1FLP)	HELICOPTER	GLIDER (2AIL2FLP)	MULTICOPTER
1: A11 (Aileron1)	1: AIL (Aileron)	1: A11 (Aileron1)	1: AIL (Aileron)
2: ELE (Elevator)	2: ELE (Elevator)	2: ELE (Elevator)	2: ELE (Elevator)
3: THR (Throttle)	3: THR (Throttle)	3: FL3 (Flap3)	3: THR (Throttle)
4: RUD (Rudder)	4: RUD (Rudder)	4: RUD (Rudder)	4: RUD (Rudder)
5: FLP (Flap)	5: GYR (Gyro)	5: FL5 (Flap5)	5: AUX
6: A16 (Aileron6)	6: PIT (Pitch)	6: A16 (Aileron6)	6: MOD (Mode)

Trainer function



When the switch D of teacher's transmitter is turned on at the front, it'll be student's control.



When the switch D of teacher's transmitter is turned o , it'll be teacher's control.

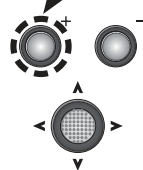
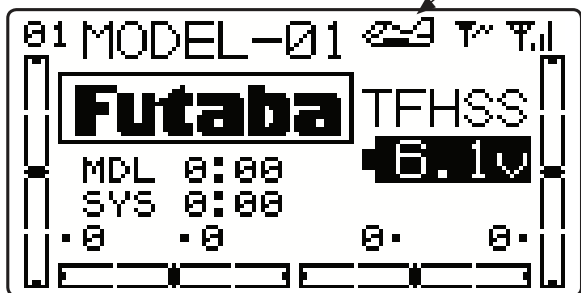
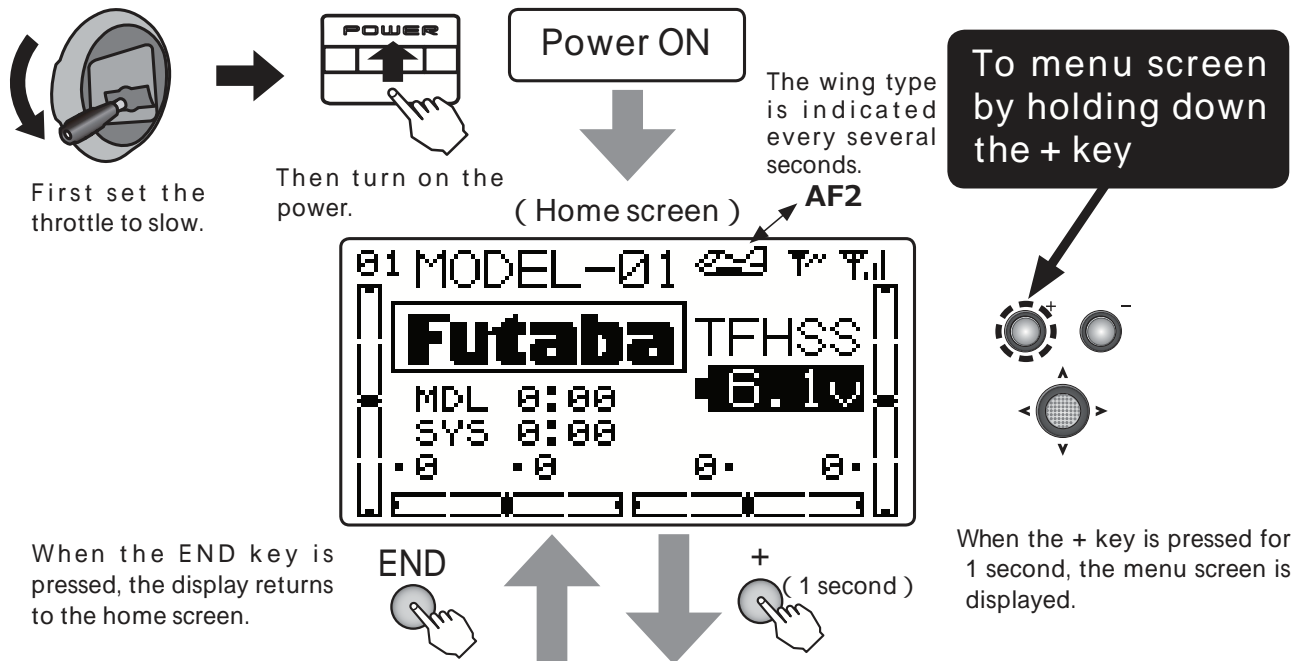
! The switch D isn't the return switch, so be careful.

Common function



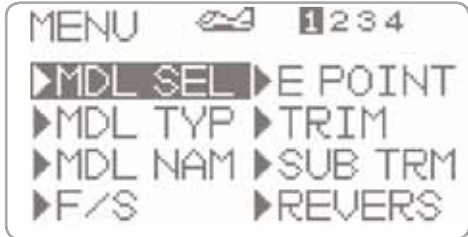
Airplane Function

The setting screen of each function is called from the following menu. The function when the model type was set to airplane (AIRPLANE) is displayed here.



MENU

MENU 1/4



MENU 2/4



MENU 3/4



MENU 4/4



(Selection)

Move the cursor (highlighted) up and down and to the left and right with the Jog key and select the function. The cursor can be moved over several pages.

(Calling the setting screen)

Press the Jog key to open the setting screen.

Airplane



The menu items can be changed according to the WING type. For example, if WING type is 1AIL, since the item blinks, reference only the item of the WING type used.

Relevant WING type display WING TYPE 1AIL 1AIL1FLP 2AIL 2AIL1FLP ELEVON

Refer to "Common Functions" previously described for a description of this function.

Function

MENU 1/4

MDL SEL	P.50
MDL TYP	P.53
MDL NAM	P.55
F/S	P.57
E POINT	P.59
TRIM	P.60
SUB TRM	P.61
REVERS	P.62

MENU 2/4

PRMTR	P.63
P.MIX	P.68
AUX CH	P.71
SERVO	P.72
TLMTRY	P.73
SENSOR	P.86
S.BUS	P.88
M TRANS	P.91

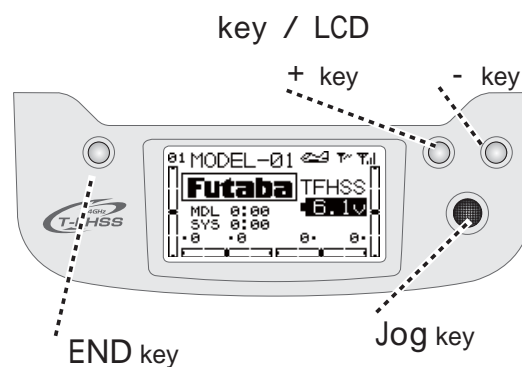
MENU 3/4

TIMER	P.92
TRAINER	P.94
THR CUT	P.98
DR EXP	P.100
THR CRV	P.102
IDL DWN	P.103
GYRO	P.104

Airplane

MENU 4/4

AIL DIF	P.105
V TAIL	P.106
CAMBER	P.107
AIR BRK	P.108
EL FLP	P.110
FLP EL	P.111
ELEVON	P.112





THR CUT Throttle cut

(AIRPLANE)

WING TYPE 1AIL 1AIL1FLP 2AIL 2AIL1FLP ELEVON

Function

This function cuts (stops) the engine or motor by stick operation. At throttle operation, the rate is adjusted to the position which completely cuts the throttle servo or ESC when the throttle is operated. When THR CUT is active, the throttle position is held regardless of the throttle stick position.

is reset. When the throttle stick is higher than the set throttle position, the throttle cut function is not reset even if the switch is set to OFF. Set to a safe throttle position (slow side). (NOR/ESC mode the next page referring.)

- The throttle position when the function is reset can be set so the motor will not unexpectedly run at high speed when the throttle cut function

- Function operation can be selected from among switches A ~ D.
- Set the throttle cut function for safety also.

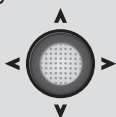
Method

Calling the setting screen

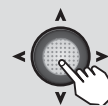
Call the menu screen from the home screen by pressing the + key for 1 second.



Select "THR CUT" from the menu with the Jog key.



Open the setting screen by pressing the Jog key.



Airplane



Mode
Cut Position rate
Throttle Position
Switch selection

```

THR CUT MIX▶ INH
MODE▶ NOR
RATE▶ ████ 0%
THR ▶ 15% ( 0%)
SW ▶ SWA ▶ NULL
  
```

Activating the function

When not using this Function select INH. The display of On/Off is shown when active and assigned to a switch.

Adjusts the rate to the position that completely cuts the throttle servo or ESC.

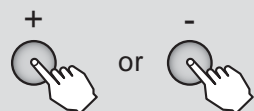
The value in parentheses is the current throttle stick position.

Select the setting item with the Jog key.

Sets the ON/OFF direction of the selected switch.
2P SW : NULL, UP, DOWN
3P SW : NULL, UP, UP&D, UP&C, CNTR, C&DN, DOWN

Throttle Cut

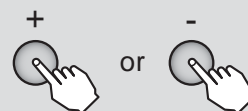
Mode
Select the "MODE" item and then select the mode by pressing the + key or - key.



Range : NOR, ESC
Default : NOR

"NOR" : Engine plane
"ESC" : Electric motor plane

Activating the function
Select the "MIX" item and then select the o by pressing the + key or - key.



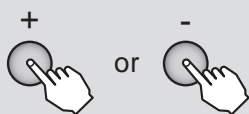
When you do not use a function, set to the "INH" side.



Throttle Cut

Switch selection

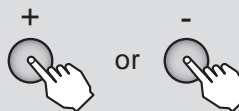
Select the "SW" item and then select the switch by pressing the + key or key.



Range : SwA ~ SwD
Default : SwA

Switch direction

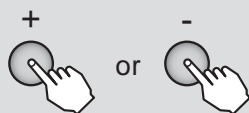
Select the "POSI" by pressing the + key or key at the ON direction selection item.



Range :
2P SW : NULL, UP, DOWN
3P SW : NULL, UP, UP&D, UP&C, CNTR, C&DN, DOWN

Cut Position rate

Select the "RATE" item and then select the cht position by pressing the + key or key (motor stop).



It adjusts to the position where an engine is cut.

Range : -30 ~ 0 ~ +30%
Default : 0%

When you want to return the set value to the initial value, press the + key and key simultaneously.

(In the case of ESC)

Function release Throttle Position

Select the "THR" item and then select the release position by THR stick is lowered and Jog key is pressed for 1 second.



Set to a safe low throttle position.

Range : 0 ~ 100%
Default : 15%

NOR MODE (Engine)

THR CHT

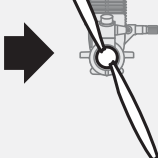


Cut switch ON



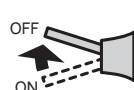
THR stick LOW

(It's possible to do positional change.)



Engine stop

Release



Cut switch OFF



THR stick LOW

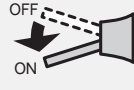
(It's possible to do positional change.)



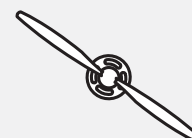
THR Active

ESC MODE (Motor)

THR CHT



Cut switch ON

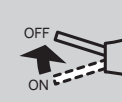


Motor Stop

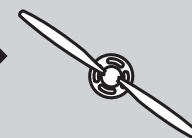
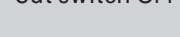
Release



THR stick middle-high
(Besides the slow)



Cut switch OFF



Motor Stop



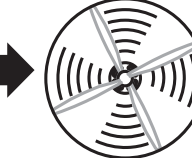
THR stick LOW



Cut switch OFF



Slow High



Start

(It's possible to do positional change.)



DR EXP

Dual rate / EXPO

(AIRPLANE)

WING TYPE 1AIL 1AIL1FLP 2AIL 2AIL1FLP ELEVON

Function

D/R

The aileron, elevator and rudder channel control surface angle can be switched in 2(3) steps

- The control surface angle is adjusted by each direction of the switch. The direction of each switch can be set individually.

EXP

This function makes operation more pleasant by changing the operating curve so that servo movement is sluggish or sensitive relative to stick operation near the aileron, elevator, throttle, and rudder neutral position. Adjustments can be made in 2(3) steps according to the control surface angle.

- The "-" side makes servo movement sluggish and the "+" side makes servo movement sensitive near the neutral position. Exponential is applied to entire throttle servo travel. When the "+" side is increased, the slow side becomes sluggish and the high side becomes sensitive.
- Setting corresponding to each rate of dual rate (D/R) is possible. (Except throttle) The direction of each switch and the left and right (up and down) direction of each channel can be set individually.

Switch selection (SW)

Switches A to D can be selected as the aileron channel, elevator channel, and rudder channel dual rate (exponential) switch.

- Default : Aileron : SwitchD / Elevator : SwitchA / Rudder : SwitchB

Method

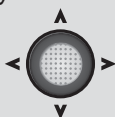
Airplane

Calling the setting screen

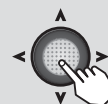
Call the menu screen from the home screen by pressing the + key for 1 second.



Select "DR EXP" from the menu with the Jog key.



Open the setting screen by pressing the Jog key.



Select the () () L,R/U,D with the stick .



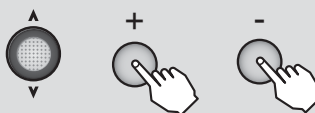
D/R

A channel is chosen by Jog key.



Range : 1, 2, 4

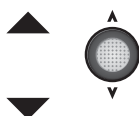
Adjust the rate by moving the cursor to D/R with the Jog key, switching the dual rate switch to the direction you want to set, moving the stick to the left (down) or right (up) side and pressing the + key or - key.



Range :
0 ~ 140%
Default : 100%

When you want to return the set value to the initial value, press the + key and - key simultaneously.

Adjust the rate of each direction of the dual rate switch and stick by repeating step



Moving to another setting item of the same channel is possible by Jog key.

EXPO

Select the "EXP" item and then select the channel with the Jog key.



Range : 1 ~ 4

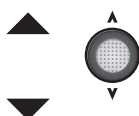
Adjust the rate by moving the cursor to EXP with the Jog key, switching the dual rate switch to the direction you want to set, moving the stick to the left (down) or right (up) side and pressing the + key or - key.



Range :
-100 ~ +100%
Default : 0%

When you want to return the set value to the initial value, press the + key and - key simultaneously.

Adjust the rate of each direction of the dual rate switch and stick by repeating step



Moving to another setting item of the same channel is possible by Jog key.

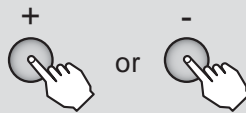
Switch Change

Select the "SW" item and then select the channel with the Jog key.



Range : 1, 2, 4

A switch is chosen by + key or -key.



Range : SwA ~ SwD

Airplane



THR CRV Throttle curve (AIRPLANE)

WING TYPE 1AIL 1AIL1FLP 2AIL 2AIL1FLP ELEVON

Function

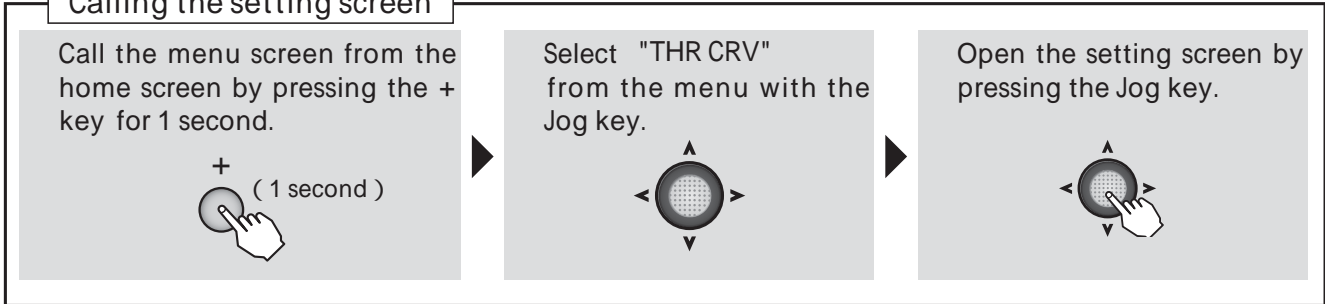
This function sets a 5 point throttle curve so that the engine/motor speed relative to movement of the throttle stick is the optimum value for flight.

- A curve can be set for each switch position.

However, this function cannot be used when the throttle EXP function was set. When this function is set, the throttle EXP function cannot be used.

Method

Calling the setting screen



Airplane

Throttle curve



IDL DWN Idle down (AIRPLANE)

WING TYPE 1AIL 1AIL1FLP 2AIL 2AIL1FLP ELEVON

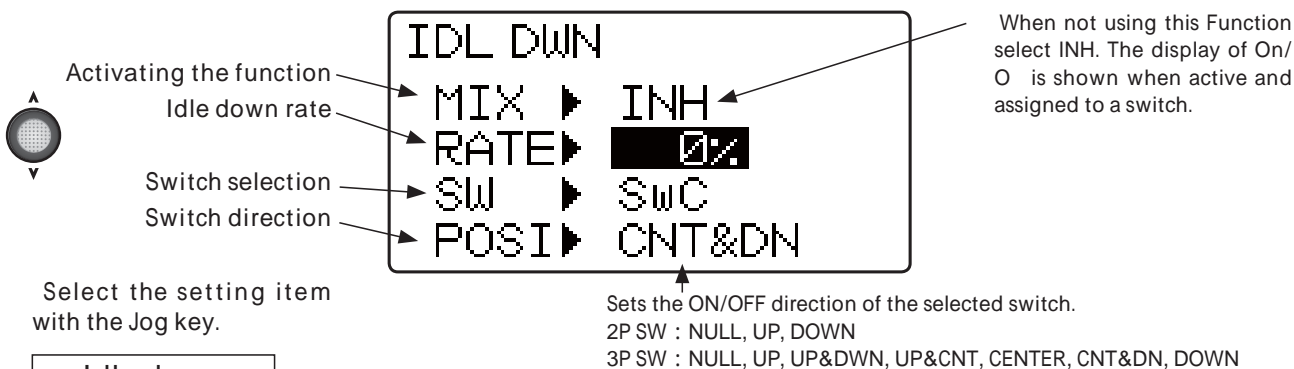
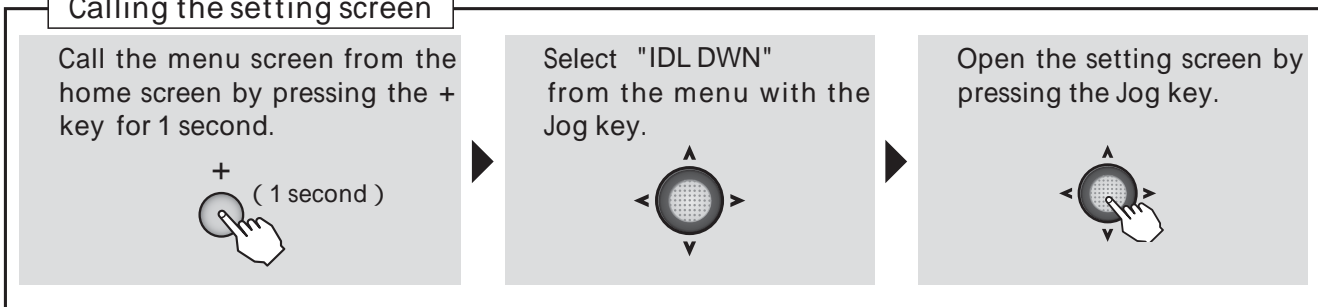
Function

This function is linked to the air brake switch and gear switch and lowers the engine idle. It is used when engine idle is set high to prevent the engine from stalling during flight and you want to lower engine idle when landing.

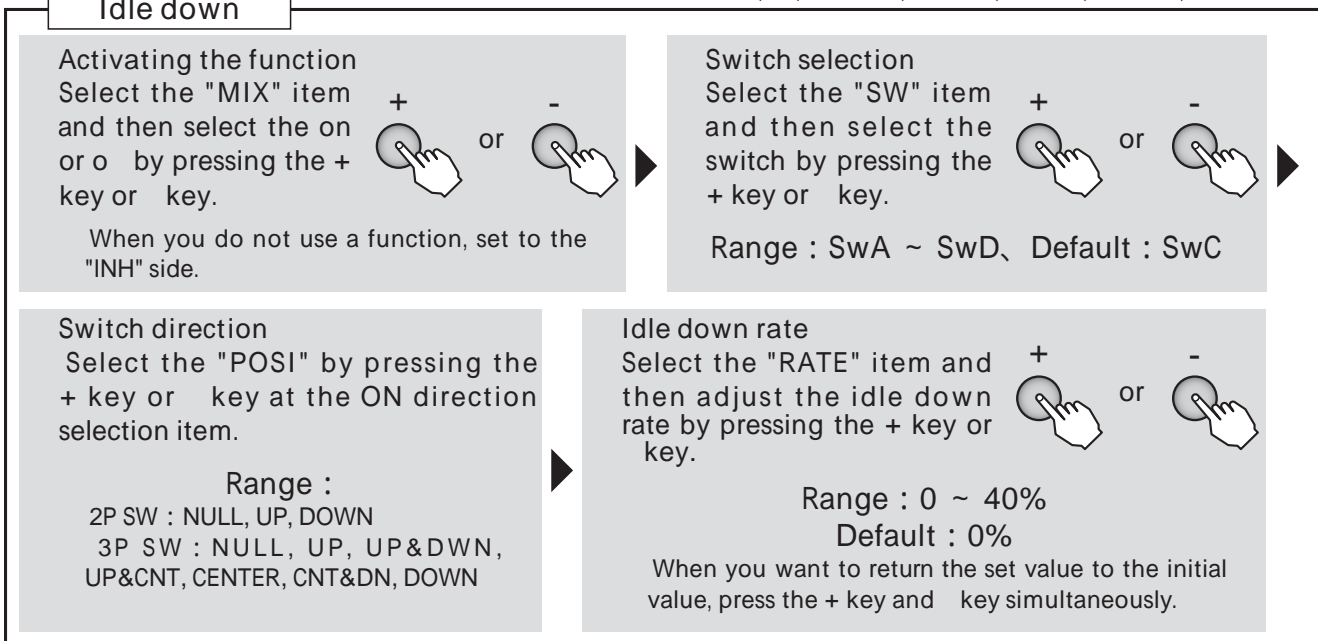
- The amount engine idle is lowered can be set.
- At idling down operation, the stop lever adjusts the idle down amount.
- Function operation can be selected from among switches A ~ D. The switch direction can also be selected.

Method

Calling the setting screen



Idle down



The idle down amount is usually 10% ~ 20%. Hold down the aircraft and set the throttle switch to the maximum slow position while the engine is running and adjust the idle drop amount while turning the switch on and o .

Airplane



GYRO

Gyro sensor

(AIRPLANE)

WING TYPE

1AIL

2AIL

Function

This function is dedicated mixing for switching the gyro sensitivity and gyro mode (AVCS/NORMAL) of Futaba airplane use gyros.

- The sensitivity switch can be selected and the sensitivity of each direction of the switch can be set. (Switches A to D) If the airplane stalls during flight, the gyro will lose control of the plane's

attitude. From the standpoint of safety, we recommend that the OFF (0%) position also be set using a 3 position switch.

- T6K only 1 channel gain control.
- 3 axes gyro of gain can't be controlled independently.

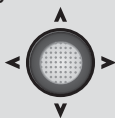
Method

Calling the setting screen

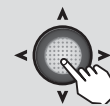
Call the menu screen from the home screen by pressing the + key for 1 second.



Select "GYRO" from the menu with the Jog key.

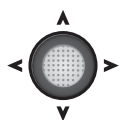


Open the setting screen by pressing the Jog key.

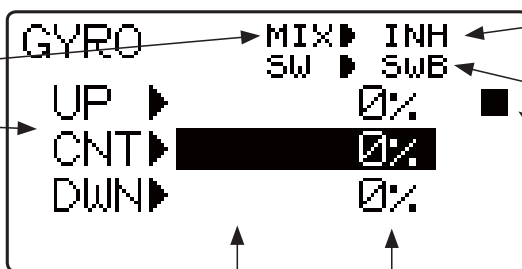


Activating the function

Switch position



Select the setting item with the Jog key.



(Gyro type)

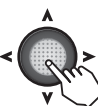
(Gyro Gain)

When not using this function, select INH.

Gain switch selection

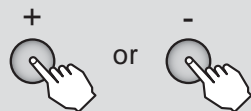
(Current switch operating direction)

Switches to the sensitivity setting screen of each switch direction when the Jog key is pressed.



GYRO

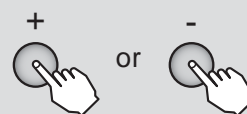
Activating the function
Select the "MIX" item and then select the "ON" by pressing the + key or - key.



When you do not use a function, set to the "INH" side.

Gain switch selection

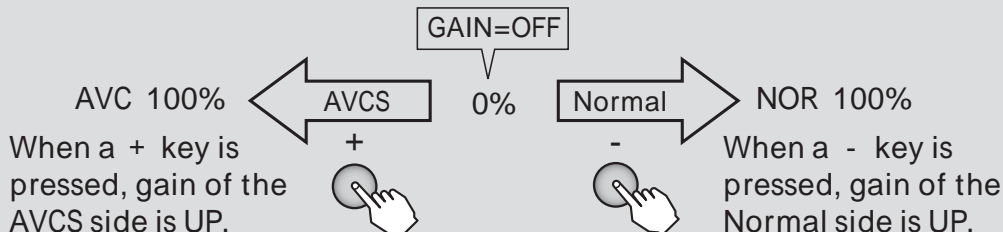
Select the "SW" item and then select the switch by pressing the + key or - key.



Range : SwA ~ SwD, Default : SwB

Gyro mode and gain setting

UP, CNT, DWN, shows the switch position. Set the respective positional gain and mode.



Airplane



AIL DIF Aileron differential

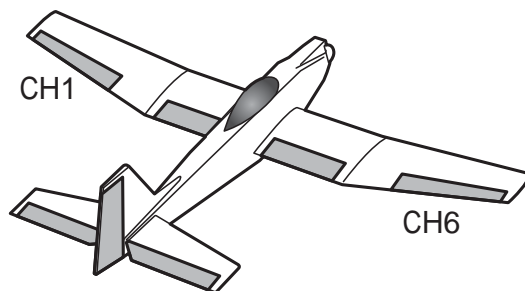
(AIRPLANE)

WING TYPE

2AIL 2AIL1FLP

Function

The left and right aileron differential can be adjusted independently. This function is restricted to 2 servo aileron.



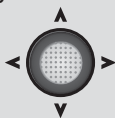
Method

Calling the setting screen

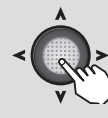
Call the menu screen from the home screen by pressing the + key for 1 second.



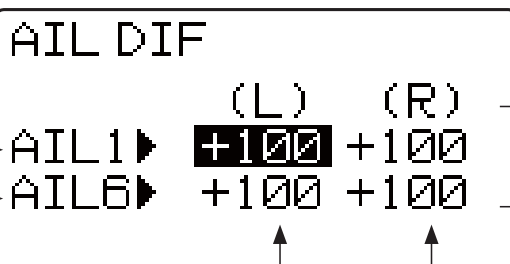
Select "AIL DIF" from the menu with the Jog key.



Open the setting screen by pressing the Jog key.



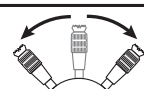
Aileron1(CH1)rate
Aileron(CH6)rate



(Aileron)
L : Aileron stick Left side rate
R : Aileron stick Right side rate

Select the setting item with the Jog key.

Select the Left/Right with the aileron stick.

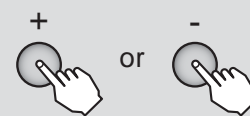


Aileron Differential

Activating the function
Select the "2AIL" or "2AIL1FLP" by WING type (MDL TYP).

Aileron rate

Select the "AIL1" item and move the aileron stick to the left and right and adjust the travel of each servo by pressing the + key or - key.



Range : -120 ~ +120%
Default : +100%

When you want to return to the initial value, press the + key and key simultaneously. However, when the polarity is changed only the number returns to the initial value.

(Adjust the "AIL6" item in the same way as .)

Airplane



V-TAIL

V-Tail

(AIRPLANE)

WING TYPE

1AIL

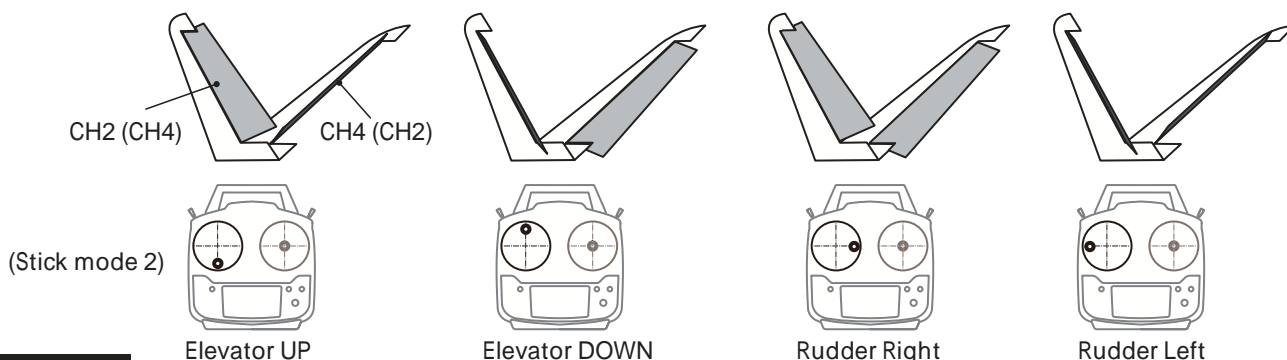
1AIL1FLP

2AIL

2AIL1FLP

Function

This mixing is used with V tail aircraft that combine the elevator and rudder functions.



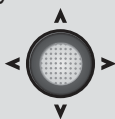
Method

Calling the setting screen

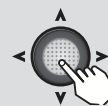
Call the menu screen from the home screen by pressing the + key for 1 second.



Select "V-TAIL" from the menu with the Jog key.

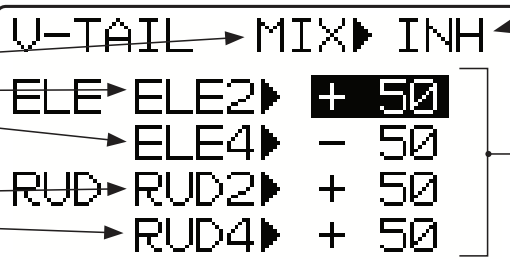


Open the setting screen by pressing the Jog key.



Airplane

Activating the function



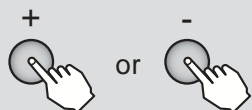
When INH is selected, the function cannot be used. To use the function, select ACT.

(Rate adjustment)

Select the setting item with the Jog key.

V-TAIL

Activating the function
Select the "MIX" item and then select the "ACT" by pressing the + key or key.



When you do not use a function, set to the "INH" side.

Rate adjustment

Select the value item and then adjust the mixing rate by pressing the + key or key.



Range : -100 ~ +100%

Default : +50%

(only ELE4 : -50%)

When you want to return the set value to the initial value, press the + key and key simultaneously. However, polarity does not return.

NOTE : We recommend that setting be performed while moving the stick and checking the amount of movement. If the amount of movement is too large, elevator and rudder operation will be compounded and the servo travel range will be exceeded and a dead band in which the servo will not operate may be created.



CAMBER Camber

(GLIDER)

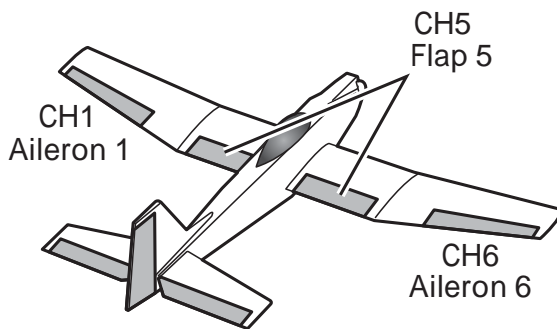
WING TYPE

1AIL1FLP 2AIL 2AIL1FLP ELEVON

Function

The up/down travel of each flap/aileron (flaps: FLP5, ailerons: AIL1/6) can be adjusted independently for each servo according to the wing type. The camber operates by switch A.

- The axis of each flap can be shifted
- The control switch can be changed



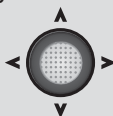
Method

Calling the setting screen

Call the menu screen from the home screen by pressing the + key for 1 second.



Select "CAMBER" from the menu with the Jog key.



Open the setting screen by pressing the Jog key.



	CAMBER	(UP)	(CNT)	(DWN)
Switch position	AIL1 ▶	0	0	0
Aileron 1	AIL6 ▶	0	0	0
Aileron 6	ELE ▶	0	0	0
Elevator	FLP ▶	0	0	0
Flap	MIX ▶	INH		
Activating the function	SW ▶	SWA	(DWN)	
Switch selection				

↑
Current switch position

Select the setting item with the Jog key.

The value is changed by + key or - key.

Airplane



AIR BRK Air brake

(AIRPLANE)

WING TYPE

1AIL1FLP 2AIL 2AIL1FLP ELEVON

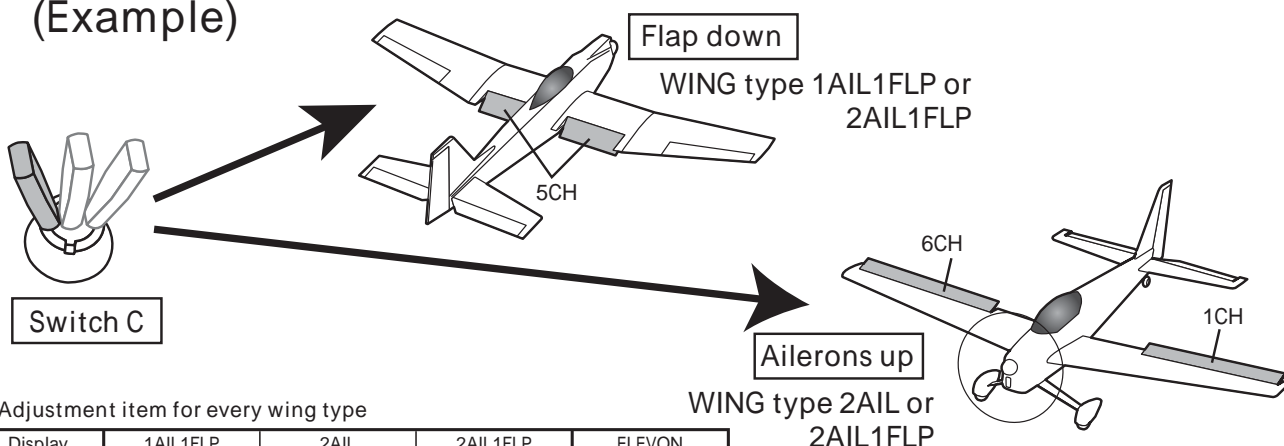
Function

This function is used when the air brake is necessary during landing and is turned on and off by switch C (initial setting).

- Normally when the ailerons are used as a brake, they are raised (UP side)
- When the operation mode is "OFST" (offset), the air brake is controlled by switch operation. When the operation mode is "LINR" (linear), the air brake is operated linearly at switch ON and from the control stick set position.

- If the "LINR" mode was selected, the throttle stick controls CH3 and the air brake operation, but it can be separated from CH3 operation. CH 3 control can be switched from stick to stick or to VR knob. However, when other than stick was selected, the throttle trim and function reverse functions cannot be used.
- When used in the "LINR" mode, adjust the travel with the throttle stick at the maximum slow side (braking amount maximum).

(Example)



Adjustment item for every wing type

Display	1AIL1FLP	2AIL	2AIL1FLP	ELEVON
AIL1(1CH)	----	Aileron1	Aileron1	----
ELEV(2CH)	Elevator	Elevator	Elevator	Elevator
FLAP(5CH)	Flap	----	Flap	Flap
AIL6(6CH)	----	Aileron6	Aileron6	----

Airplane

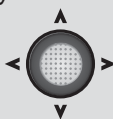
Method

Calling the setting screen

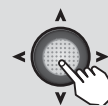
Call the menu screen from the home screen by pressing the + key for 1 second.



Select "AIR BRK" from the menu with the Jog key.



Open the setting screen by pressing the Jog key.



Activating the function

Rate set

Elevator delay rate set

Select the setting item with the Jog key.

```

AIR-BRK
-rate- CH3 - - - -
AIL1 - - - - MIX INH
ELEV - 10% SW SWC
FLAP + 50%   DOWN
AIL2 - - - - MOD OFST
-delay-     - - - -
ELEV  0%
                    
```

3CH Control set (LINR mode)

When not using this Function select INH. The display of On/O is shown when active and assigned to a switch.

Switch selection

Switch direction

Mode

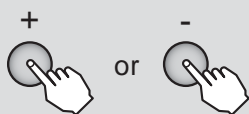
When the "LINR" operation mode was selected, the current throttle stick position is displayed at the operation reference point and in the bottom row parentheses.



Air brake

Activating the function

Select the "MIX" item and then select the "ON" or "OFF" by pressing the + key or key.



When you do not use a function, set to the "INH" side.

Rate set

Select the "rate" item and adjust the servo travel by pressing the + key or key.



Range : -100 ~ +100%
Default : +50% (ELEV only -10%)

When you want to return the set value to the initial value, press the + key and key simultaneously. However, polarity does not return.

Delay Rate set

Select the "delay" item and adjust the elevator operation delay by pressing the + key or key.



The amount of delay is large at 100%.

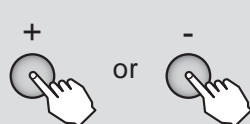
Range : 0 ~ 100% Default : 0%

When you want to return the set value to the initial value, press the + key and key simultaneously.

(In the case of change of a switch)

Switch selection

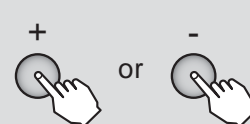
Select the "SW" item and then select the switch by pressing the + key or key.



Range : SwA ~ SwD
Default : SwC

Switch direction

Select the ON direction by pressing the + key or key at the ON direction selection item.

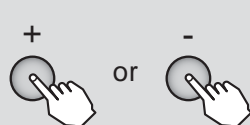


Range :
2P SW : NULL, UP, DOWN
3P SW : NULL, UP, UP&DN, UP&CT, CENTR, CT&DN, DOWN

(In the case of change of a mode)

Mode

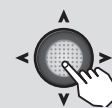
Select the "MOD" item and select the operation mode by pressing the + key or the key.



Range : OFST, LINR
Default : OFST

Operation reference point setting ("LINR" mode only)

Select the operation reference point setting item newly displayed at the bottom row of "MOD" and hold the throttle stick at the air brake start point and set the reference point by pressing the Jog key for 1 second.



Range : 0 ~ 100%

(When 3CH control is changed at the time of "LINR")

"LINR" mode 3CH control

Select the "CH3" item and select control by pressing the +key or key.

Range : THR, SwA ~ SwD, VR
Default : THR



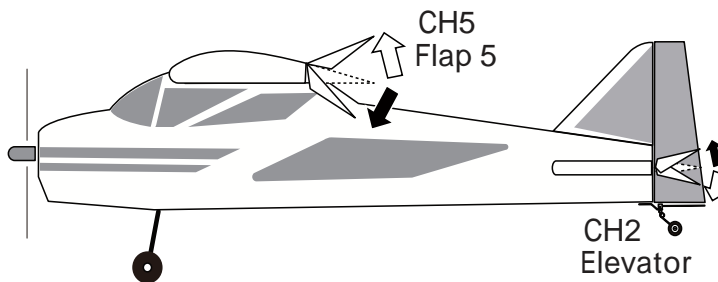
EL FLP Elevator Flap mixing (AIRPLANE)

WING TYPE 1AIL1FLP 2AIL1FLP ELEVON

Function

This mixing is used when you want to apply mixing from elevator to flap. Usually, mixing is such that the flap are lowered by raising the elevator. When used with Fun Fly and other aircraft, small loops are possible.

- The up side and down side rates can be adjusted.



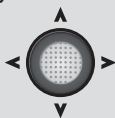
Method

Calling the setting screen

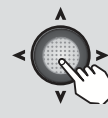
Call the menu screen from the home screen by pressing the + key for 1 second.



Select "EL FLP" from the menu with the Jog key.



Open the setting screen by pressing the Jog key.



Mixing rate
Activating the function
Switch selection
Switch direction

ELE→FLAP

MIX RATE (+) (+) + 50 + 50

MIX MIX INH

SW SW SwD

POS POS UP

Select the / with the elevator stick.



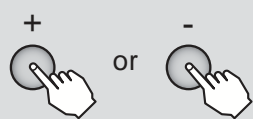
(Elevator up side rate)
(Elevator down side rate)
When not using this Function select INH. The display of On/O is shown when active and assigned to a switch.

Select the setting item with the Jog key.

Sets the ON/OFF direction of the selected switch.
2P SW : NULL, UP, DOWN
3P SW : NULL, UP, UP&DWN, UP&CNT, CENTER, CNT&DN, DOWN

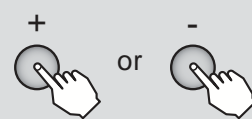
Elevator Flap Mixing

Activating the function
Select the "MIX" item and then select the ON or OFF by pressing the + key or - key.



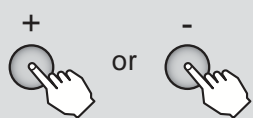
When you do not use a function, set to the "INH" side.

Switch selection
Select the "SW" item and then select the switch by pressing the + key or - key.



Range : SwA ~ SwD

Switch direction
Select the "POS" by pressing the + key or - key at the ON direction selection item.



Range :
2P SW : NULL, UP, DOWN
3P SW : NULL, UP, UP&DWN, UP&CNT, CENTER, CNT&DN, DOWN

Mixing rate
Select the "RATE" item and then adjust the mixing rate by pressing the + key or - key.



Range : -100 ~ +100% Default : +50%

When you want to return the set value to the initial value, press the + key and - key simultaneously. However, polarity does not return.

RATE / cursor position operates and chooses an elevator stick.



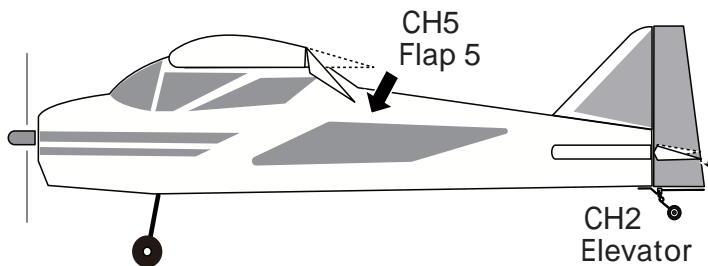
FLP EL Flap Elevator mixing (AIRPLANE)

WING TYPE 1AIL1FLP 2AIL1FLP

Function

This mixing is used to compensate for pitch changes (elevator direction) at flap operation.

- When the mixing direction is reversed by the linkage adjustment is possible by changing the rate polarity.
- The mixing reference point can be shifted. (OFFSET)



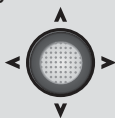
Method

Calling the setting screen

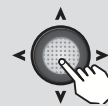
Call the menu screen from the home screen by pressing the + key for 1 second.



Select "FLP EL" from the menu with the Jog key.



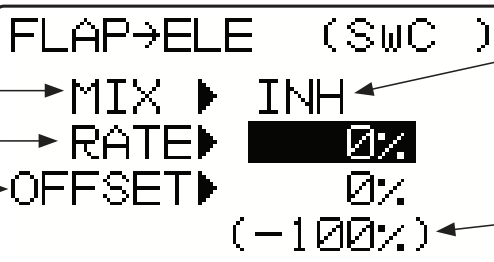
Open the setting screen by pressing the Jog key.



Activating the function

Mixing rate

Mixing o set rate



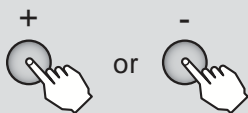
When not using this function, select INH.

(Present flap operating position)

Select the setting item with the Jog key.

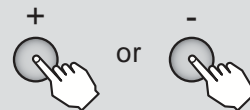
Flap Elevator Mixing

Activating the function
Select the "MIX" item and then select the "ON" by pressing the + key or key.



When you do not use a function, set to the "INH" side.

Mixing rate
Select the "RATE" item and then adjust the mixing rate by pressing the + key or key.



Range : -100 ~ +100%
Default : 0%

When you want to return the set value to the initial value, press the + key and key simultaneously.

(When changing the mixing reference point)

Mixing reference point o set setting
Select the "OFFSET" item and turn the Flap knob to the point you want to make the mixing reference point and set the reference point by pressing the Jog key for 1 second.



Range : -100 ~ +100% Default : 0%

Airplane



ELEVON Elevon

(AIRPLANE)

WING TYPE

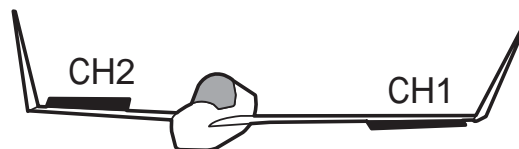
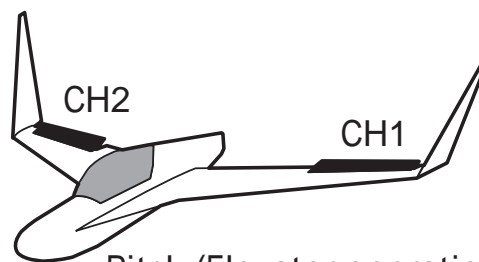
ELEVON

Function

This mixing is used with delta wing, tailless, and disk shaped airplanes that combine the aileron and elevator functions.

Connect the CH1 servo to the left aileron and the CH2 servo to the right aileron.

- The aileron and elevator travel can be adjusted individually.



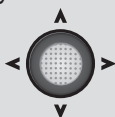
Method

Calling the setting screen

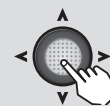
Call the menu screen from the home screen by pressing the + key for 1 second.



Select "ELEVON" from the menu with the Jog key.



Open the setting screen by pressing the Jog key.



Airplane



Aileron1(CH1)rate → AIL1 ▶

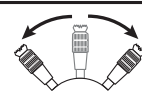
Aileron2(CH2)rate → AIL2 ▶

Elevator2(CH1)rate → ELE1 ▶

Elevator1(CH2)rate → ELE2 ▶

ELEVON		(L)	(R)
Aileron1(CH1)rate	▶	+100	+100
Aileron2(CH2)rate	▶	+100	+100
Elevator2(CH1)rate	▶	+100	
Elevator1(CH2)rate	▶	-100	

Select the Left/Right with the aileron stick.



(Aileron rate)
 L : Aileron stick Left side rate
 R : Aileron stick Right side rate
 (Elevator rate)

Select the setting item with the Jog key.

ELEVON

Activating the function
Select the "ELEVON" by WING type (MDL TYP).

Rate set
Select the "RATE" item and then adjust the mixing rate by pressing the + key or key.



Range : -120 ~ +120%
 Default : +100%
 (only ELE1 : -100%)

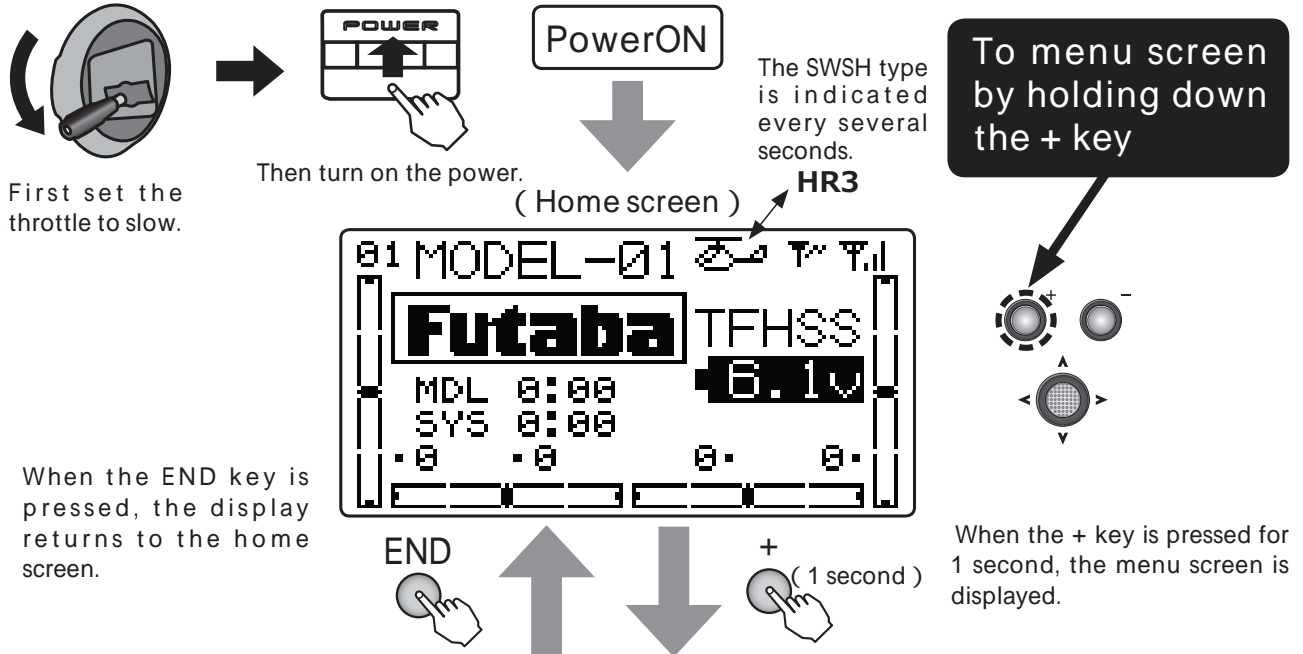
When you want to return the set value to the initial value, press the + key and key simultaneously. However, polarity does not return.

NOTE : We recommend that setting be performed while moving the stick and checking the amount of movement. If the amount of movement is too large, elevator and aileron operation will be compounded and the servo travel range will be exceeded and a dead band in which the servo will not operate may be created.

HELICOPTER Function



The setting screen of each function is called from the following menu. The function when the model type was set to helicopter is displayed here.



MENU

MENU 1/4

MENU	1 2 3 4
▶MDL SEL	▶E POINT
▶MDL TYP	▶TRIM
▶MDL NAM	▶SUB TRM
▶F/S	▶REVERS

MENU 2/4

MENU	1 2 3 4
▶PRMTR	▶TLMTRY
▶P.MIX	▶SENSOR
▶AUX CH	▶S.BUS
▶SERVO	▶M TRANS

MENU 3/4

MENU	1 2 3 4
▶TIMER	▶DR EXP
▶TRAINR	▶OFFSET
▶CONDIT	▶DELAY
▶THR CUT	▶GYRO

MENU 4/4

MENU	1 2 3 4
▶SWH AFR	▶REVO MX
▶SWH MIX	▶TH HOLD
▶THR CRU	▶HOV THR
▶PIT CRU	▶HOV PIT

(Selection)

Move the cursor (highlighted) up and down and to the left and right with the Jog key and select the function. The cursor can be moved over several pages.

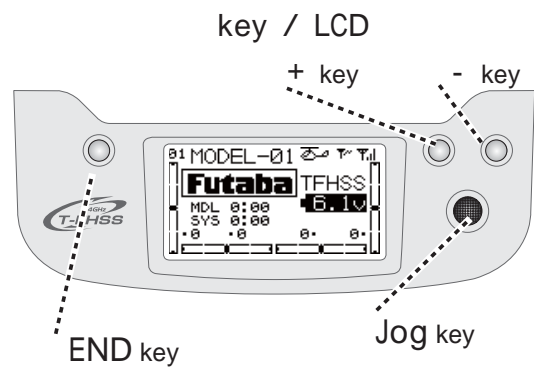
(Calling the setting screen)

Press the Jog key to open the setting screen.

Helicopter



Refer to "Common Functions" previously described for a description of this function.



Function

MENU 1/4

MDL SEL	P.50
MDL TYP	P.53
MDL NAM	P.55
F/S	P.57
E POINT	P.59
TRIM	P.60
SUB TRM	P.61
REVERS	P.62

MENU 2/4

PRMTR	P.63
P.MIX	P.68
AUX CH	P.71
SERVO	P.72
TLMTRY	P.73
SENSOR	P.86
S.BUS	P.88
M TRANS	P.91

MENU 3/4

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THR CUT	P.116
DR EXP	P.118
OFFSET	P.120
DELAY	P.121
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SWH MIX	P.124
THR CRV	P.126
PIT CRV	P.128
REVO MX	P.130
TH HOLD	P.132
HOV THR	P.133
HOV PIT	P.134

(Condition switching at each setting screen)

Press the jog button for 1 second.
When setting conditions with the following function, each setting can be made by switching the condition by pressing the Jog key for 1 second.
Throttle curve, Pitch curve, Pitch Rudder, Gyro sens, OFFSET, Swash MIX



CONDIT Condition select (Idle-up · Throttlehold) (HELICOPTER)

Function

The condition switches (idle up 1/2 and throttle hold switch) are not operative at initial setting. Switch setting is performed in advance with the condition select function.

- Initially set to idle up 1: SwA (forward), idle up 2: SwB (forward), throttle hold: SwC (forward).

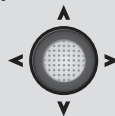
Method

Calling the setting screen

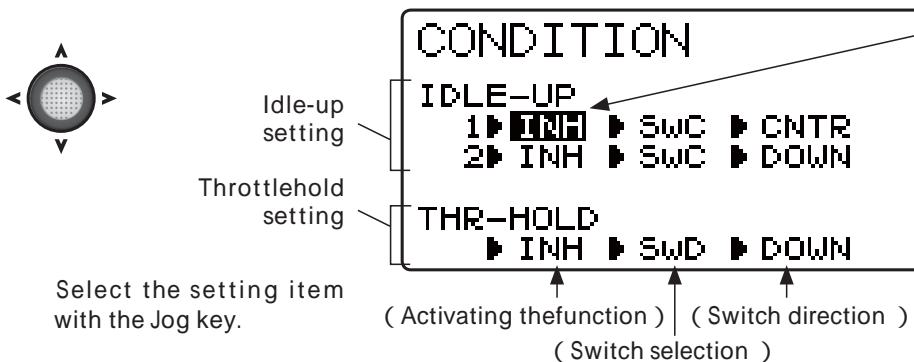
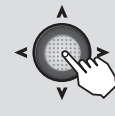
Call the menu screen from the home screen by pressing the + key for 1 second.



Select "CONDIT" from the menu with the Jog key.



Open the setting screen by pressing the Jog key.

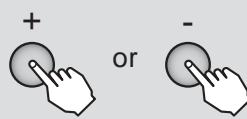


When not using this Function select INH. The display of On/O is shown when active and assigned to a switch.

Condition select

Activating the function

Select the "INH" item of the condition you want to use and set it to "ON" or "OFF" by pressing the + key or - key.

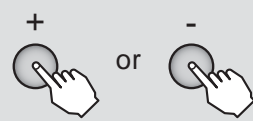


Set conditions you do not want to use to "INH".

(In the case of change of a switch)

Switch selection

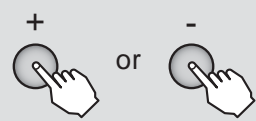
A cursor is moved to "Switch selection" and a switch is changed by + key or - key.



Range : SwA ~ SwD
 Default : SwA(IDLE-UP1),
 SwB(IDLE-UP2), SwC(THR-HOLD)

Switch direction

A cursor is moved to "Switch direction" and a switch direction is changed by + key or - key.



Range :
 2P SW : NULL, UP, DOWN
 3P SW : NULL, UP, UP&D, UP&C, CNTR, C&DN,
 DOWN



THR CUT Throttle cut

(HELICOPTER)

Function

This function cuts (stops) the engine or motor by stick operation. At throttle operation, the rate is adjusted to the position which completely cuts the throttle servo or ESC when the throttle is operated. When THR CUT is active, the throttle position is held regardless of the throttle stick position.

- The throttle position when the function is reset can be set so the motor will not unexpectedly run at high speed when the throttle cut function

is reset. When the throttle stick is higher than the set throttle position, the throttle cut function is not reset even if the switch is set to OFF. Set to a safe throttle position (slow side). (NOR/ESC mode the next page referring.)

- Function operation can be selected from among switches A ~ D.
- Set the throttle cut function for safety also.

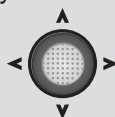
Method

Calling the setting screen

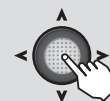
Call the menu screen from the home screen by pressing the + key for 1 second.



Select "THR CUT" from the menu with the Jog key.



Open the setting screen by pressing the Jog key.



Select the setting item with the Jog key.

Sets the ON/OFF direction of the selected switch.
2P SW : NULL, UP, DOWN
3P SW : NULL, UP, UP&D, UP&C, CNTR, C&DN, DOWN

Activating the function

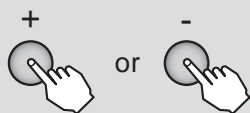
When not using this Function select INH. The display of On/Off is shown when active and assigned to a switch.

Adjusts the rate to the position that completely cuts the throttle servo or ESC.

The value in parentheses is the current throttle stick position.

Throttle Cut

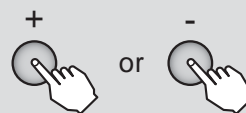
Mode
Select the "MODE" item and then select the mode by pressing the + key or - key.



Range : NOR, ESC
Default : NOR

"NOR" : Engine plane
"ESC" : Electric motor plane

Activating the function
Select the "MIX" item and then select the o by pressing the + key or - key.



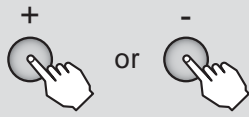
When you do not use a function, set to the "INH" side.



Throttle Cut

Switch selection

Select the "SW" item and then select the switch by pressing the + key or key.

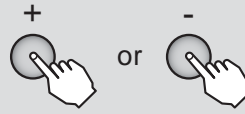


Range : SwA ~ SwD

Default : SwA

Switch direction

Select the "POS1" by pressing the + key or key at the ON direction selection item.



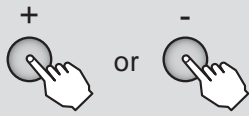
Range :

2P SW : NULL, UP, DOWN

3P SW : NULL, UP, UP&D, UP&C, CNTR, C&DN, DOWN

Cut Position rate

Select the "RATE" item and then select the cht position by pressing the + key or key (motor stop).



It adjusts to the position where an engine is cut.

Range : -30 ~ 0 ~ +30%

Default : 0%

When you want to return the set value to the initial value, press the + key and key simultaneously.

(In the case of ESC)

Function release Throttle Position

Select the "THR" item and then select the release position by THR stick is lowered and Jog key is pressed for 1 second.



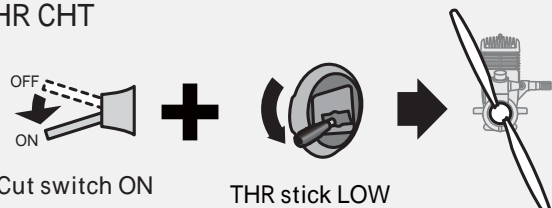
Set to a safe low throttle position.

Range : 0 ~ 100%

Default : 15%

NOR MODE (Engine)

THR CHT



Cut switch ON

THR stick LOW

(It's possible to do positional change.)

Engine stop

Release



Cut switch OFF

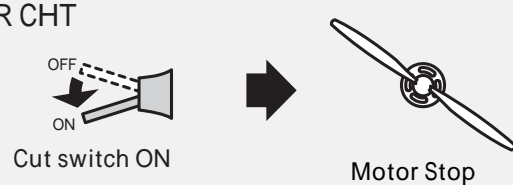
THR stick LOW

(It's possible to do positional change.)

THR Active

ESC MODE (Motor)

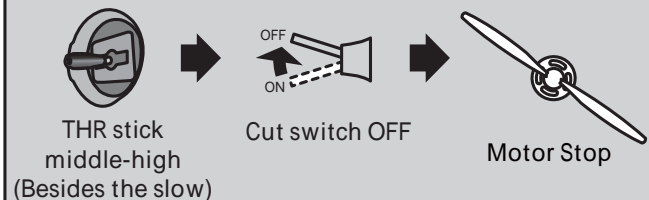
THR CHT



Cut switch ON

Motor Stop

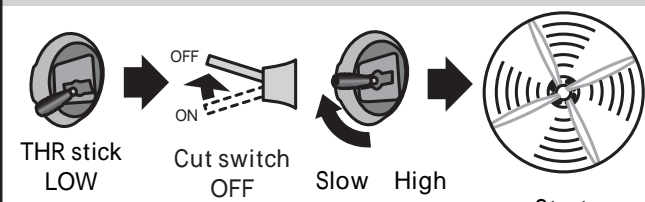
Release



THR stick middle-high
(Besides the slow)

Cut switch OFF

Motor Stop



THR stick LOW

Cut switch OFF

Slow High

Start

(It's possible to do positional change.)



DR EXP Dual rate / EXPO (HELICOPTER)

Function

D/R

The aileron, elevator and rudder channel control surface angle can be switched in 2 (3) steps

- The control surface angle is adjusted by each direction of the switch or condition. The left and right (up and down) direction of each switch can be set individually.

EXP

This function makes operation more pleasant by changing the operating curve so that servo movement is sluggish or sensitive relative to stick operation near the aileron, elevator, throttle, and rudder neutral position. Adjustments can be made in 2 (3) steps according to the control surface angle.

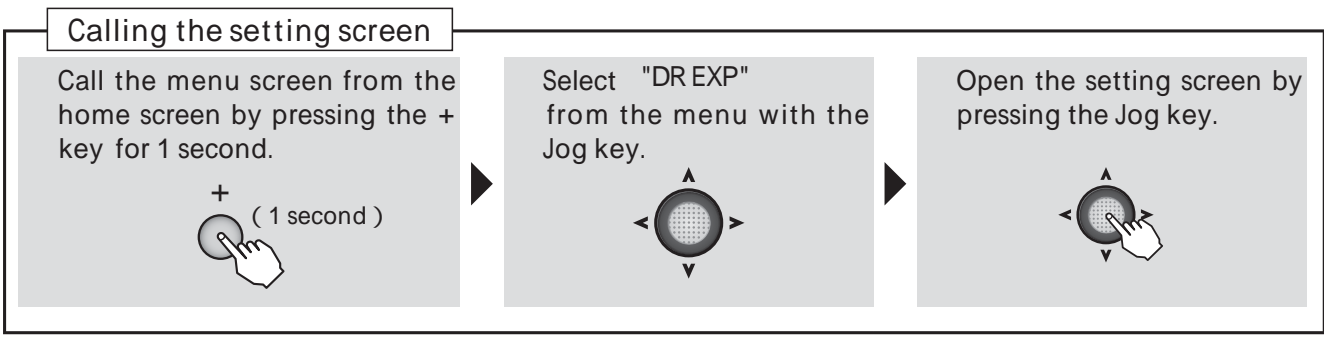
- The "-" side makes servo movement sluggish and the "+" side makes servo movement sensitive near the neutral position. Exponential is applied to entire throttle servo travel. When the "+" side is increased, the slow side becomes sluggish and the high side becomes sensitive.
- Setting corresponding to each rate of dual rate (D/R) is possible. (Except throttle) The direction of each switch and the left and right (up and down) direction of each channel can be set individually.

Switch selection (SW)

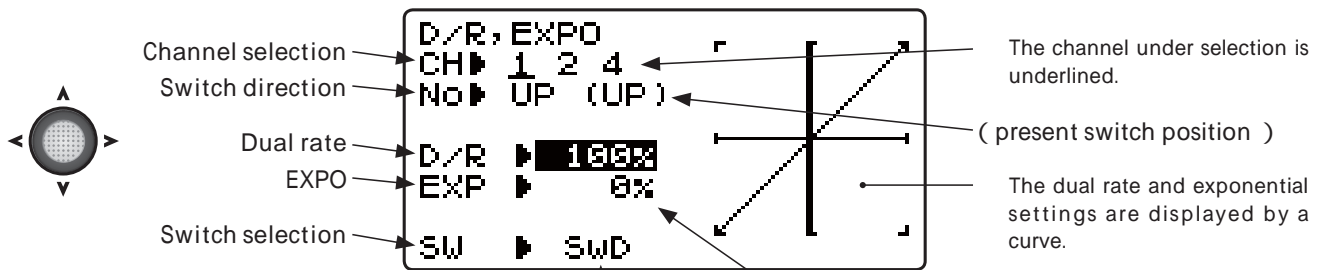
Switches A to D can be selected as the aileron channel, elevator channel, and rudder channel dual rate (exponential) switch.

- Select : Switch A ~ Switch D / condition : Cond
- Default : Aileron : Switch D / Elevator : Switch A / Rudder : Switch B

Method



Helicopter



Channel selection/Select the setting item with the Jog key.
 Jog key is pushed for 1 second, a condition screen will change.

(Switch number) (Rate)

The channel under selection is underlined.
 (present switch position)
 The dual rate and exponential settings are displayed by a curve.

- < Channel >
 1 : Aileron
 2 : Elevator
 4 : Rudder



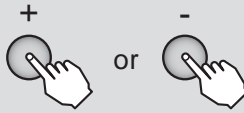
Dual rate

Channel selection
A channel is chosen by Jog key.

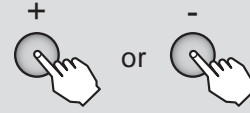


Range : 1, 2, 4

Switch direction
Select the "No" item and then select the switch direction or condition by pressing the + key or key.



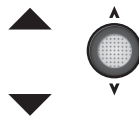
D/R Setup of rate
Select each function item of "D/R" and set the rate by pressing the + key or key.



Range : 0 ~ 140% Default : 100%

When you want to return the set value to the initial value, press the + key and key simultaneously.

Adjust the rate of each direction of the dual rate switch and stick by repeating step



Moving to another setting item of the same channel is possible by Jog key.

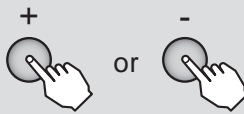
EXPO

Channel selection
A channel is chosen by Jog key.

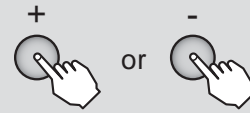


Range : 1, 2, 4

Switch direction
Select the "No" item and then select the switch direction or condition by pressing the + key or key.



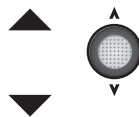
EXP Setup of rate
Select the "EXP" item and then adjust the rate by pressing the + key or key.



Range : -100 ~ +100%、 Default : 0%

When you want to return the set value to the initial value, press the + key and key simultaneously.

Adjust the rate of each direction of the dual rate switch and stick by repeating step



Moving to another setting item of the same channel is possible by Jog key.

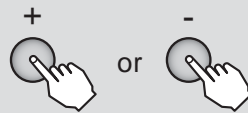
Switch Change

Channel selection
Select the "SW" item and then select the channel with the Jog key.



Range : 1, 2, 4

Switch selection
A switch or Cond is chosen by + key or key.



Range : SwA ~ SwD, Cond

When "Cond" is chosen, a setup is possible for every condition.



OFFSET

Trim offset

(HELICOPTER)

Function

If this trim offset function is used, independent trim adjustments can be made during hovering and in the air. This function can offset the ailerons, elevators, and rudder neutral position by linking to the set switch or condition. A habit that tends to appear from the standpoint of helicopter characteristics when flying at high speed is possible. This function can correct this habit.

- For a clockwise rotation rotor, since the helicopter tilts to the right during flight, use the offset function to set the swash plate so that the helicopter tilts to the left. Since the direction of the elevators is

different depending on adjustment of the aircraft, decide the setting direction after flight. When the gyro is used in the AVCS mode at the rudder, etc., the offset rate is made 0% (initial setting) to make corrections at the gyro side.

- When the switch was selected 1 offset system can be set for a 2 position switch and 2 offset systems can be set for a 3 position switch. Linking to conditions (IDL1,2, HOLD) is also possible.
- When the offset function is on, data adjustment is possible even by digital trim. The trim adjusted rate is input in the air. (When the offset function is ON, the initial screen trim display is linked.)

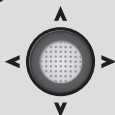
Method

Calling the setting screen

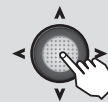
Call the menu screen from the home screen by pressing the + key for 1 second.



Select "OFFSET" from the menu with the Jog key.



Open the setting screen by pressing the Jog key.



Select the setting item with the Jog key.

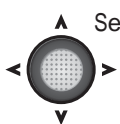
Activating the function

Switch direction,

Selection of condition

O set rate

Switch selection

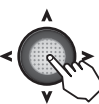


OFFSET	MIX	INH
COND	SU	Cond
AIL	IDL1 (NORM)	
ELE	0%	
RUD	0%	

When not using this Function select INH. The display of On/O is shown when active and assigned to a switch.

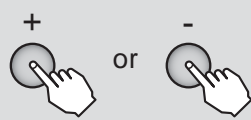
(Present condition)

When "Cond" is chosen, if Jog key is pushed for 1 second, it will change to each condition setting screen.



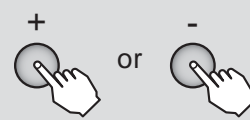
Trim offset

Activating the function
Select the "MIX" item and then select the "ON" or "OFF" by pressing the + key or key.



When you do not use a function, set to the "INH" side.

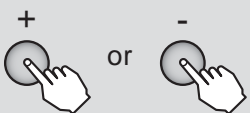
Switch selection
Select the "SW" item and then select the switch by pressing the + key or key.



Range : Cond, SwA ~ SwD

Switch direction and condition selection

Select the switch direction and condition you want to set at the switch direction and condition items.



O set rate

Select the "RATE" item and then adjust the o set rate by pressing the + key or key.

Range : -120 ~ +120%

Default : 0%

When you want to return the set value to the initial value, press the + key and key simultaneously.



DELAY

Delay

(HELICOPTER)

Function

This function prevents sudden offset changes when the offset, condition functions are turned on and off.

- Delay can be set at the aileron, elevator, rudder, throttle, and pitch.
- The set delay is common to the offset, and condition functions.

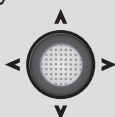
Method

Calling the setting screen

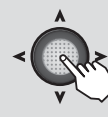
Call the menu screen from the home screen by pressing the + key for 1 second.



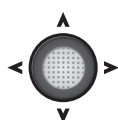
Select "DELAY" from the menu with the Jog key.



Open the setting screen by pressing the Jog key.



Select the setting item with the Jog key.



Delay rate

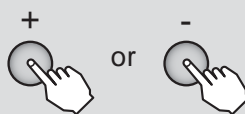
DELAY			
(OFFSET)		(COND)	
AIL▶	<input checked="" type="checkbox"/>	THR▶	<input type="checkbox"/>
ELE▶	<input type="checkbox"/>	PIT▶	<input type="checkbox"/>
RUD▶	<input type="checkbox"/>		

The delay is maximum at 100% (slowly).

Delay rate

Delay rate setup

Select the "RATE" item and then adjust the delay rate by pressing the + key or key.



Range : 0 ~ 100%
Default : 0%

When you want to return the set value to the initial value, press the + key and key simultaneously.



GYRO

Gyro mixing

(HELICOPTER)

Function

This mixing adjusts the gyro sensitivity from the transmitter. The AVCS gyro (AVC mode) or normal gyro (NOR mode) can be selected.

- The gain can be linked to the condition (Cond) or an arbitrary switch and set.
- When the GY mode was selected, "AVC" or "NOR"

is displayed at the gain setting value.

- The sensitivity setting channel can be selected.
- T6K only 1 channel gain control.
- 3 axes gyro of gain can't be controlled independently.

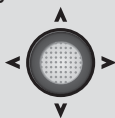
Method

Calling the setting screen

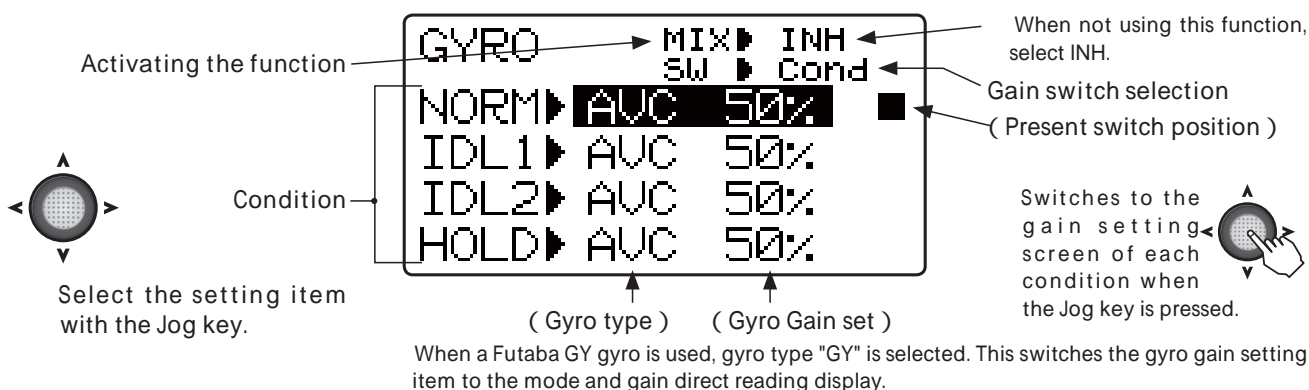
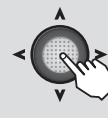
Call the menu screen from the home screen by pressing the + key for 1 second.



Select "GYRO" from the menu with the Jog key.

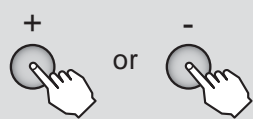


Open the setting screen by pressing the Jog key.



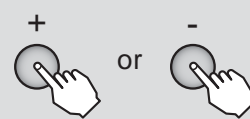
Gyro setup

Activating the function Select the "MIX" item and then select the "ON" by pressing the + key or - key.



When you do not use a function, set to the "INH" side.

Gain switch selection Select the "SW" item and then select the switch by pressing the + key or - key.

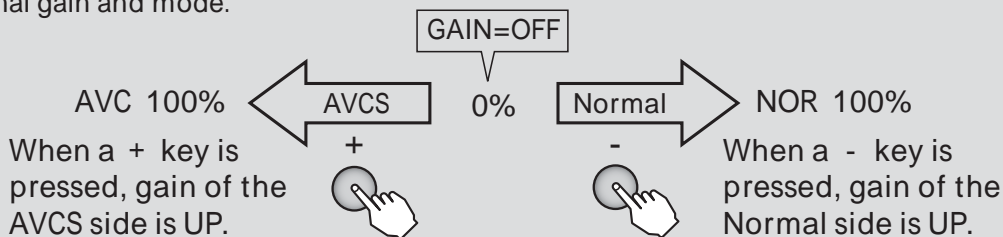


Range : Cond, SwA ~ SwD

Gyro mode and gain setting

When choosing Cond. Set a mode and gain every each condition.

When choosing Switch UP, CNT, DWN, shows the switch position. Set the respective positional gain and mode.



Helicopter



SWH AFR

Swash AFR

(HELICOPTER)

Function

(When swash type is H-1, this setting screen is not displayed.)

This is the adjustable function rate (AFR) function when HR3, H-3, HE3, HN3 or H-2 is selected as the swash type. The ailerons, elevators, and pitch steering angle and direction can be adjusted.

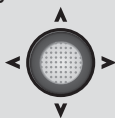
Method

Calling the setting screen

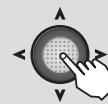
Call the menu screen from the home screen by pressing the + key for 1 second.



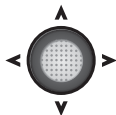
Select "SWH AFR" from the menu with the Jog key.



Open the setting screen by pressing the Jog key.



Select the setting item with the Jog key.



Rete

SWH AFR	
AIL▶	+ 50%
ELE▶	+ 50%
PIT▶	+ 50%

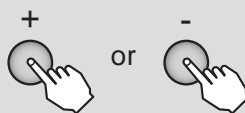
Depending on the swash type the screen display is different.

When the polarity is changed, the direction of operation is reversed.

NOTE : If the steering angle is too large, linkage binding may occur .

Swash AFR

Travel adjustment of each function
Select each function item of "RATE" and set the rate by pressing the + key or key.



Range : -100 ~ +100%
Default : +50%

When you want to return the set value to the initial value, press the + key and key simultaneously. However, polarity does not return.

Helicopter



SWH MIX Swash mixing

(HELICOPTER)

Function

This mixing is used to correct the bad tendencies of the swash plate in the aileron direction and elevator direction relative to aileron, elevator, and pitch operations. It adjusts the rate of the direction that requires correction so that the servo operates

smoothly in the proper direction relative to each operation.

- The correction amount of each condition can be set.
- The left and right (up and down) correction amount can be set for each condition.

Example of use: Using to correct bad roll tendencies

AIL ELE is set to ON.
 ACTION/ON is common to all conditions. The rate of unused conditions is set to 0%.
 When the nose drops at right roll and the right side rate is adjusted in the "+" direction, the elevators move to the up side when the right aileron is deflected.
 Left roll can be adjusted by left side rate.
 However, since the left and right ailerons polarity and elevators operating direction relationship is reversed; check the correction direction by swash plate operation.

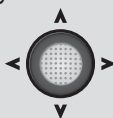
Method

Calling the setting screen

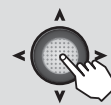
Call the menu screen from the home screen by pressing the + key for 1 second.



Select "SWH MIX" from the menu with the Jog key.



Open the setting screen by pressing the Jog key.



Helicopter

Select the setting item with the Jog key.

```

SWH.MIX 12
  NORM (NORM)
  ←/↑  ↓/→
  AIL→ELE 0% 0%
  ELE→AIL 0% 0%
  PIT→AIL 0% 0%
  PIT→ELE 0% 0%
  
```

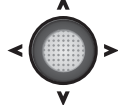
Condition

Mixing master direction

Mixing rate

(Present condition)

(Rate)



Activating the function

```

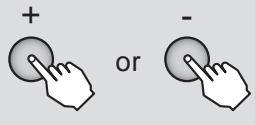
SWH.MIX 12
  MIX
  AIL→ELE INH
  ELE→AIL INH
  PIT→AIL INH
  PIT→ELE INH
  
```

When not using this function, select INH.



Swash mixing

Activating the function
Select the "MIX" item and then select the "ON" by pressing the + key or key.



When you are not using a function, set this to INH.

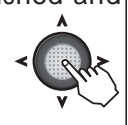
Setup of rate
Select the "RATE" item and then adjust the mixing rate by pressing the + key or key.

Range : -100 ~ +100%
Default : 0%

When you want to return the set value to the initial value, press the + key and key simultaneously.

ON/OFF of a function, setup of rate, and a trim, Jog key is pushed and setting condition can be chosen.

Range :
NORM, IDL1, IDL2, HOLD





THR CRV Throttle curve

(HELICOPTER)

Function

The throttle curve function sets a 5 point curve in relation to the throttle stick movement and adjusts each point over the 0 ~ 100% range so that the engine speed is optimum for flight.

- Normal (NOR), idle up 1 (IDL1), idle up 2 (IDL2) throttle curves can be set.
- The normal (NOR), idle up 1 (IDL1), idle up 2 (IDL2) switch can be pre-set at the condition selection screen.

(Normal throttle curve adjustment method)

The normal throttle curve creates a basic throttle curve centered near hovering. This curve is adjusted together with the normal pitch curve so that engine speed is constant and up/down control is easiest. The normal throttle function is always on.

(Idle up 1/2 throttle curve adjustment method)

The idle up curves are set so that the engine maintains a constant speed even when the pitch is reduced during flight. Curves matched to the purpose such as loop, roll and 3D are created and idle up curves 1/2 are by aerobatics.

CAUTIONS

[Operation precautions] When starting the engine, always set idle up sticks 1/2 to OFF and start the engine at idling.

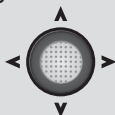
Method

Calling the setting screen

Call the menu screen from the home screen by pressing the + key for 1 second.



Select "THR CRV" from the menu with the Jog key.



Open the setting screen by pressing the Jog key.



Helicopter

Activating the function →

Setting condition →

5point curve rate →

Select the setting item with the Jog key. →

Point	Rate (%)
P-5	100.0%
P-4	75.0%
P-3	50.0%
P-2	25.0%
P-1	0.0%

(Rate) (Present condition)

When not using this Function select INH. The display of On/ Off is shown when active and assigned to a switch. A display when normal is "---" (alwaysON)

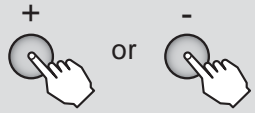
The THR-CURVE settings are displayed by a curve.



Throttle curve

Activating the throttle curves (ID1/2)

Select the "MIX" item and set to "ON" or "OFF" by pressing the + key or - key.



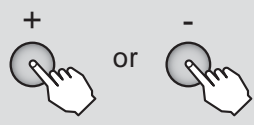
For the normal condition, "---" is displayed. (Always ON)

When you do not want to use an idle up curve, set to "INH".

Range : NOR, ID1, ID2

5 point curve setting

Select the setting item of each point (P-1 ~ P-5) with the Jog key and set the travel of each point by pressing the + key or - key.



Range : 0 ~ 100%

Default :

P-5: 100%

P-4: 75%

P-3: 50%

P-2: 25%

P-1: 0%

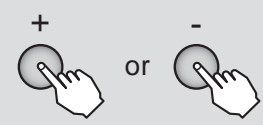
When you want to return the set value to the initial value, press the + key and - key simultaneously.

Curve copying method

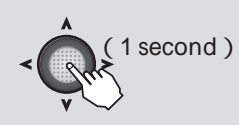
Select the "CND" item and switch to the curve copy mode by pressing the Jog key.



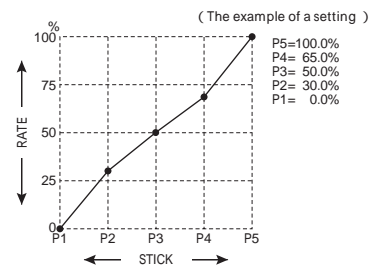
Press the + key or - key and select the copy destination condition.



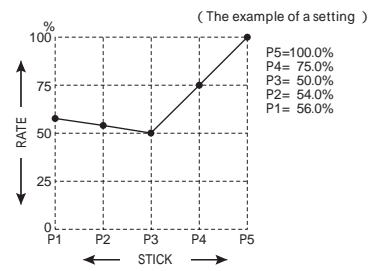
Copy the condition by pressing the Jog key for 1 second.



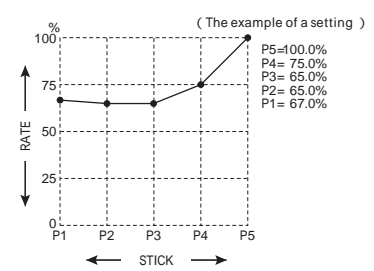
Throttle curve setting examples



(Normal)

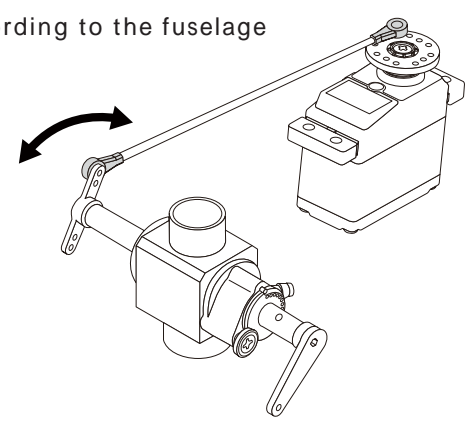


(Idle-up1)



(Idle-up2)

NOTE : Set the actual value of the throttle curve according to the fuselage specifications.





Function

The pitch curve function allows setting by a 5 point curve in relation to throttle stick movement and adjustment of each point over the -100% ~ +100% range so that the pitch enters the optimum flight state.

- Normal (NOR), idle up 1 (IDL1), idle up 2 (IDL2), and hold (HLD) pitch curves can be set.
- The normal (NOR), idle up 1 (IDL1), idle up 2 (IDL2), and hold (HOLD) switches can be pre-set at the conditions selection screen.

NOTE : When the hold switch is on, the hold function has priority even though an idle up switch is in any position.

(Normal curve adjustment method)

The normal pitch curve creates a basic pitch curve centered near hovering. This curve is adjusted together with the throttle pitch curve so that engine speed is constant and up/down control is easiest.

(Idle up 1/2 curve adjustment method)

The high side pitch curve sets the maximum pitch that does not apply a load to the engine. The low side pitch curve is created to match the purpose such as loop, roll, and 3D. The idle up 1/2 curves are used by aerobatics.

(Throttle hold curve adjustment method)

The throttle hold curve is used when performing auto rotation dives. Set the intermediate pitch to match the stick work at pitch up.

Method

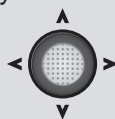
Helicopter

Calling the setting screen

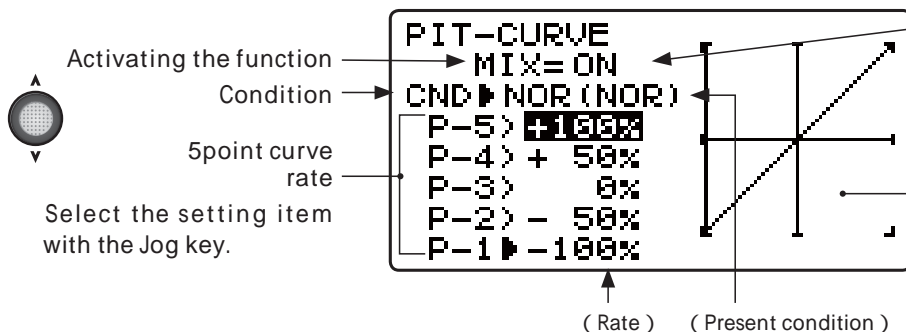
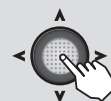
Call the menu screen from the home screen by pressing the + key for 1 second.



Select "PIT CRV" from the menu with the Jog key.



Open the setting screen by pressing the Jog key.



When not using this Function select INH. The display of On/O is shown when active and assigned to a switch. When normal,"---" (always ON) is displayed.

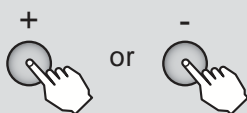
The PIT-CURVE settings are displayed by a curve.



Pitch curve

Activating the pitch curves (ID1/2, HLD)

Select the "MIX" item and then select the "ON" or "OFF" by pressing the + key or key.



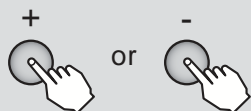
For the normal condition, "---" is displayed. (Always ON)

When you do not want to use an idle up, hold curve, set to "INH".

Range : NOR, ID1, ID2, HLD

5 point curve setting

Select the setting item of each point (P-1 ~ P-5) with the Jog key and set the travel of each point by pressing the + key or key.



Range : -100 ~ +100%

Default :

P-5: +100%

P-4: +50%

P-3: 0%

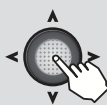
P-2: -50%

P-1: -100%

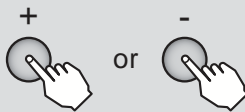
When you want to return the set value to the initial value, press the + key and key simultaneously.

Curve copying method

Select the "CND" item and switch to the curve copy mode by pressing the Jog key.



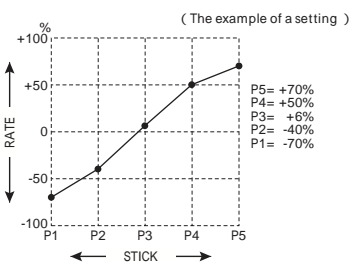
Press the + key or key and select the copy destination condition.



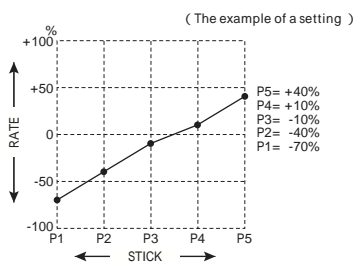
Copy the condition by pressing the Jog key for 1 second.



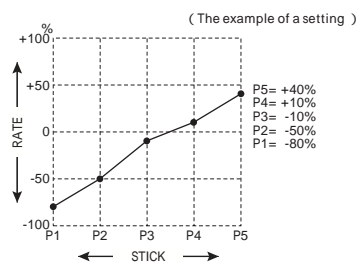
Pitch curve setting examples



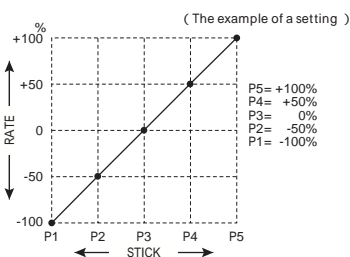
(Normal)



(Idle-up1)

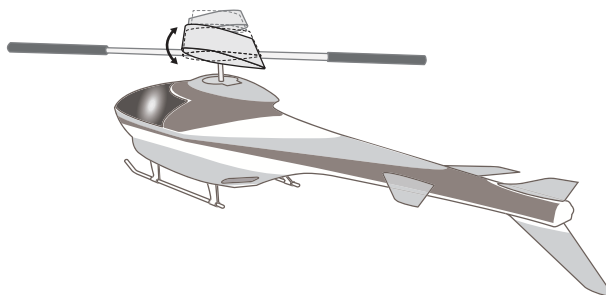


(Idle-up2)



(Hold)

NOTE : Set the actual value of the pitch curve according to the fuselage specifications.





Function

The pitch→rudder mixing function controls the pitch of the tail rotor to suppress the reaction torque (force that attempts to swing the helicopter in the direction opposite the direction of rotation of the main rotor) generated by the main rotor pitch and speed. It is adjusted so that the pitch of the tail rotor is also changed when the main rotor pitch changes and reaction torque appears and so that the nose does not swing to the left and right. However, when the AVCS mode is used with a GY Series gyro, pitch→rudder mixing is unnecessary.

- The normal (NOR) idle up 1/2 (IDL1,2) rates can be set.
 - The high side and low side rates can be adjusted.
 - For a clockwise rotation rotor, the operating direction is set so that the rudder is mixed in the right direction when the pitch becomes plus. For a counterclockwise rotation rotor, the setting is opposite. The operating direction setting reverses the rate polarity.
CW rotation: Low side (LOW) -105, high side (HIGH) +10%
CCW rotation: Low side (LOW) +10%, high side (HIGH) -10%
- *The above values are the initial values. Replace them with the actual setting values.

Adjustment procedure

First, trim at hovering and then adjust the neutral position.

(Normal pitch rudder mixing)

Throttle low side (slow while hovering) adjustment

Repeatedly hover from take off and land from hovering at a constant rate matched to your own rhythm, and adjust pitch rudder mixing so that the nose does not deflect when the throttle is raised and lowered.

If the nose points to the left when landing from hovering or points to the right when taking off, when hovering stabilizes and the stick moves to the neutral position, low side mixing rate is probably too large and when the nose points in the opposite direction, low side rate is probably too small. However, when landing, the direction of the nose may not stabilize depending on the state on the ground. The direction of the nose may also become unstable when rotation of the rotor does not rise.

Throttle high (up to climbing from hovering and diving hovering) adjustment

Repeat up to climbing from hovering and diving hovering matched to your own rhythm and adjust pitch rudder mixing so that the nose does not deflect to the left and right when the throttle is raised and lowered. If the nose points to the right when climbing from hovering, the high side mixing rate is too large and if the nose points to the right, the mixing rate is too small. Repeat climbing and diving and make adjustment while taking the balance.

(idle-up1/2 Pitch Rudder mixing)

This mixing sets the mixing rate so that the rudder direction is straight forward at high speed flight.

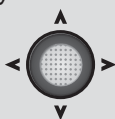
Method

Calling the setting screen

Call the menu screen from the home screen by pressing the + key for 1 second.



Select "REVO MX" from the menu with the Jog key.

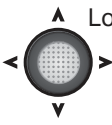


Open the setting screen by pressing the Jog key.





Activating the function
 Selection of condition
 High side Setup of rate
 Low side Setup of rate



Select the setting item with the Jog key.

REVO.MIX

MIX ▶ INH (NORM) ←

COND ▶ NORMAL

HIGH ▶ + 20%



LOW ▶ - 20%

(Rate)

When not using this function, select INH.
 (present switch position)



Pitch Rudder mixing

Activating the function
 Select the "MIX" item and then select the "ON" by pressing the + key or key.

 or 


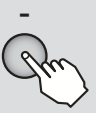
When you do not use a function, set to the "INH" side.

Selection of condition
 Select the "COND" item and selection of condition by pressing the + key or key.

 or 

Range : NORM, IDL1/2

Setup of rate
 Select each function item of "HI" or "LO" and set the rate by pressing the + key or key.

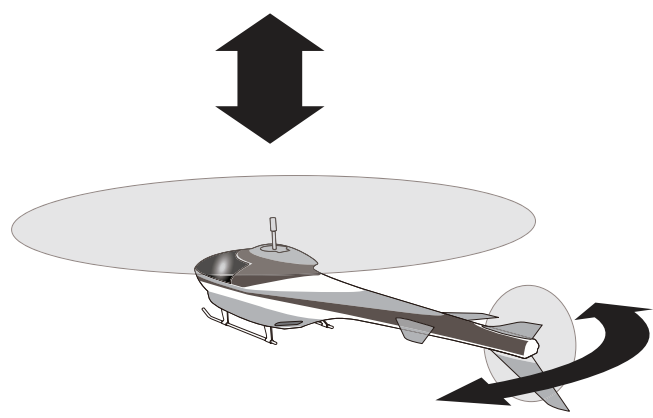
 or 

Range : -100 ~ +100%

Default(NORM) : -20%(LOW) +20%(HIGH)

Default(IDL1/2) : 0%(LOW) 0%(HIGH)

When you want to return the set value to the initial value, press the + key and key simultaneously.





TH HOLD Throttle hold

(HELICOPTER)

Function

The throttle hold function fixes or stops the engine throttle position by hold switch operation during an auto rotation dive. Operation can be set within the -50% ~ +50% range based on the

throttle trim position.

The switch is changed at the conditions selection screen. (Initial setting: SwD)

⚠ CAUTIONS

! [NOTE] Priority is given to throttle hold over idle-up.

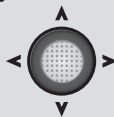
Method

Calling the setting screen

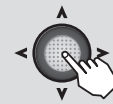
Call the menu screen from the home screen by pressing the + key for 1 second.



Select "TH HOLD" from the menu with the Jog key.



Open the setting screen by pressing the Jog key.



Activating the function

hold throttle position

Select the setting item with the Jog key.

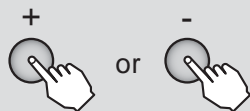
```

THR HOLD
MIX ▶ INH
RATE ▶ 0%
SW ▶ SwD
POS ▶ DOWN
  
```

When not using this Function select INH. The display of On/Off is shown when active and assigned to a switch.

Throttle hold

Activating the function
Select the "MIX" item and then select the "ON" or "OFF" by pressing the + key or key.

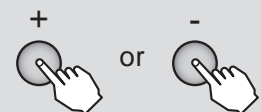


When you do not use a function, set to the "INH" side.

Hold throttle position
Select the "RATE" item and then adjust the rate by pressing the + key or key.

Range : -50 ~ +50%
Default : 0%

When you want to return the set value to the initial value, press the + key and key simultaneously.



Helicopter

Function ACT INH is linked to condition THR-HOLD, and can be set at any screen.

【Hold position adjustment method】

When you want to lower the engine idling, set to the "+" direction and adjust so that the carburetor is full open.

When maintaining idling, set the throttle stick to the slow position and turn the hold switch on and off and set to the number at which the servo does not operate.

NOTE : When connecting the throttle linkage, lower the digital trim to the slowest and adjust so that the carburetor is full open.



HOV THR Hovering throttle

(HELICOPTER)

Function

The hovering throttle function trims the throttle near the hovering point.

When the hovering throttle knob is turned clockwise, the speed increases and when it is turned counterclockwise, the speed decreases. Rotor speed changes due to changes in the temperature,

humidity, and other flying conditions can be trimmed. Adjust for the most stable rotor speed. More precise trimming is possible by using this function together with the hovering pitch function.

- The operation condition can be selected from only normal or normal/idle up 1.

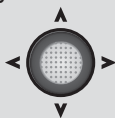
Method

Calling the setting screen

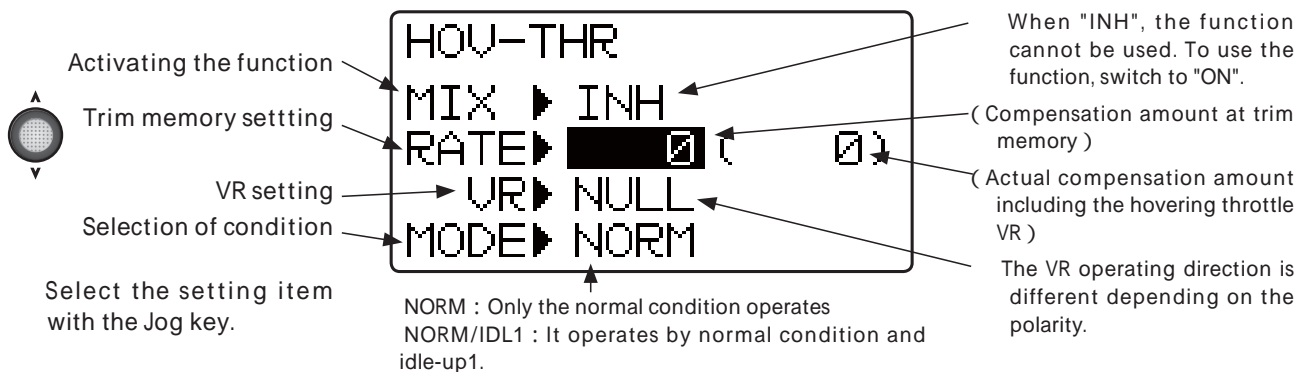
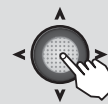
Call the menu screen from the home screen by pressing the + key for 1 second.



Select "HOV THR" from the menu with the Jog key.

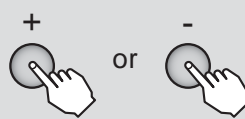


Open the setting screen by pressing the Jog key.



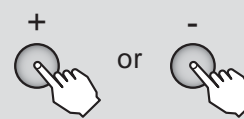
Hovering Throttle

Activating the function
Select the "MIX" item and then select the "ON" by pressing the + key or - key.



When you do not use a function, set to the "INH" side.

Selection of condition
Select the "MODE" item and then select condition by pressing the + key or - key.

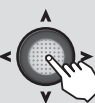


Range : NORM, NORM/IDL1
Default : NORM

VR setting
Select the "VR" item and then select the "VR" by pressing the + key or - key.
Range : NULL(OFF), +VR, -VR
Default : NULL

(Memorizing the hovering throttle adjustment position)

Memory setting
Select the "RATE" item and memorize the current trim position by pressing the Jog key.



When the knob is returned to the center after memorization, the trim position returns to its previous position.

[NOTE] If memorization is repeated at the same position, the value is cumulated.



HOV PIT Hovering pitch

(HELICOPTER)

Function

The hovering pitch function trims the pitch near the hovering point.

When the hovering pitch knob is turned clockwise, the pitch gets stronger and when it is turned counterclockwise, the pitch gets weaker. Rotor speed changes due to changes in temperature, humidity, and other flying conditions can be trimmed. Adjust for the most stable rotor rotation.

More precise trimming is possible by using this function together with the hovering throttle function.

- The operating condition can be selected from normal only and normal/idle up 1.
- The trim position can be memorized. If it is memorized before the model memory is changed, the original trim state can be retrieved by merely setting the knob to the center when the trim position is recalled.

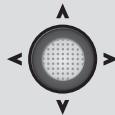
Method

Calling the setting screen

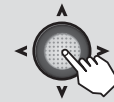
Call the menu screen from the home screen by pressing the + key for 1 second.



Select "HOV PIT" from the menu with the Jog key.



Open the setting screen by pressing the Jog key.



HOV-THR

MIX ▶ INH

RATE ▶ [] ([])

VR ▶ NULL

MODE ▶ NORM

Annotations:

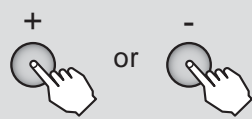
- Activating the function: Points to the 'MIX' item.
- Trim memory setting: Points to the 'RATE' item.
- VR setting: Points to the 'VR' item.
- Selection of condition: Points to the 'MODE' item.
- When "INH", the function cannot be used. To use the function, switch to "ON".
- (Compensation amount at trim memory)
- (Actual compensation amount including the hovering pitch VR)
- The VR operating direction is different depending on the polarity

Select the setting item with the Jog key.

NORM : Only the normal condition operates
 NORM/IDL1 : It operates by normal condition and idle-up1.

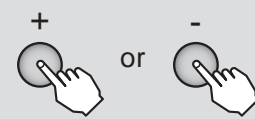
Hovering Pitch

Activating the function
Select the "MIX" item and then select the "ON" by pressing the + key or - key.



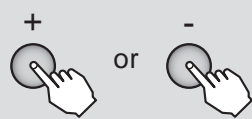
When you do not use a function, set to the "INH" side.

Selection of condition
Select the "MODE" item and then select condition by pressing the + key or - key.



Range : NORM, NORM/IDL1
Default : NORM

VR setting
Select the "VR" item and then select the "VR" by pressing the + key or - key.



Range : NULL(OFF), +VR, -VR
Default : -VR

(Memorizing the hovering pitch adjustment position)

Memory setting
Select the "RATE" item and memorize the current trim position by pressing the Jog key.

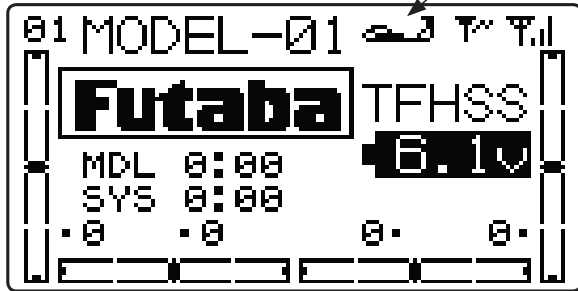
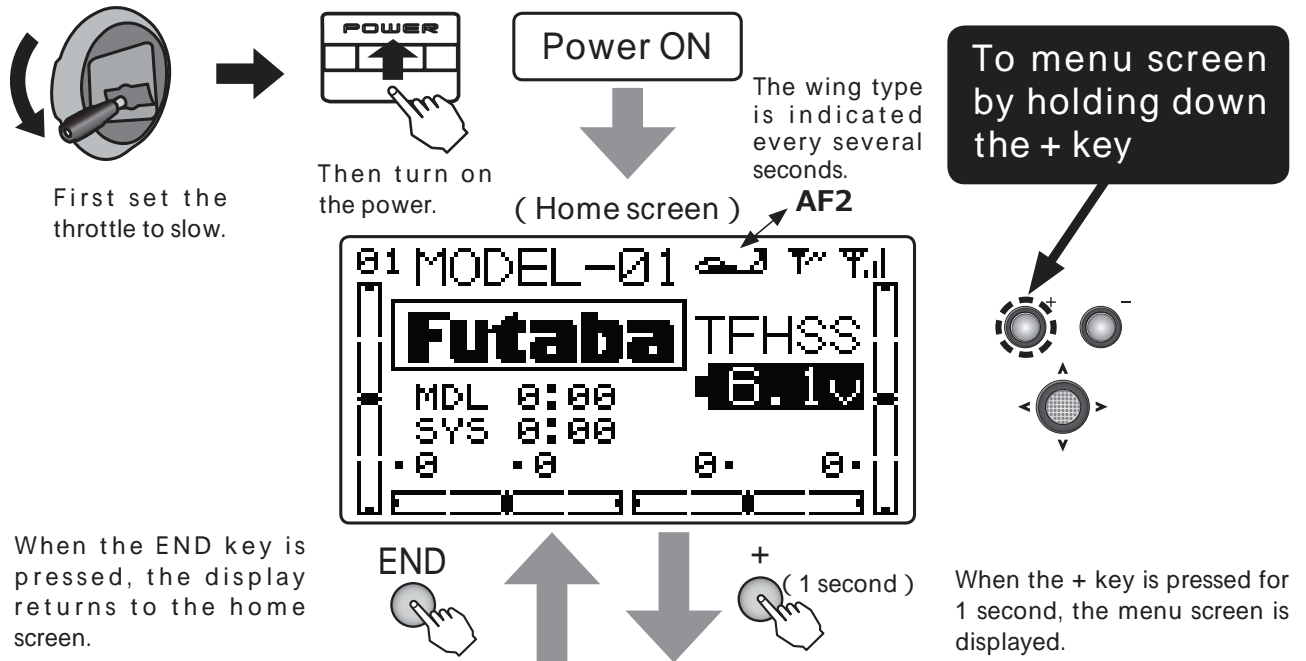
When the knob is returned to the center after memorization, the trim position returns to its previous position.

[NOTE] If memorization is repeated at the same position, the value is cumulated.



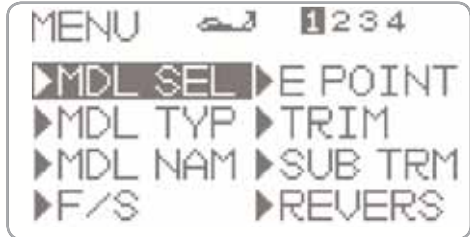
Glider function

The setting screen of each function is called from the following menu. The function when the model type was set to glider (2AIL4FLP) is displayed here.



MENU

MENU 1/4



MENU 2/4



MENU 3/4



MENU 4/4



(Selection)

Move the cursor (highlighted) up and down and to the left and right with the Jog key and select the function. The cursor can be moved over several pages.

(Calling the setting screen)

• Press the Jog key to open the setting screen.



The menu items can be changed according to the WING type. For example, if WING type is 1AIL, since the item blinks, reference only the item of the WING type used.

Relevant WING type display

WING TYPE 1AIL 1AIL1FLP 2AIL 2AIL1FLP 2AIL2FLP

Refer to "Common Functions" previously described for a description of this function.

Function

MENU 1/4

MDL SEL	P.50
MDL TYP	P.53
MDL NAM	P.55
F/S	P.57
E POINT	P.59
TRIM	P.60
SUB TRM	P.61
REVERS	P.62

MENU 2/4

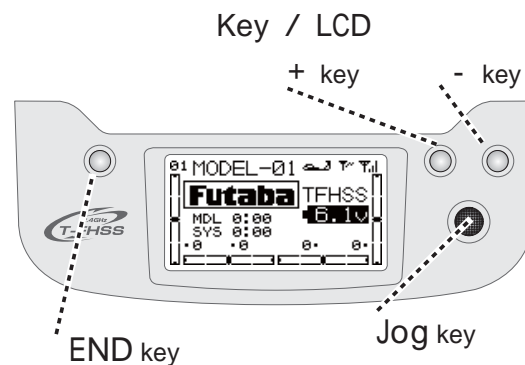
PRMTR	P.63
P.MIX	P.68
AUX CH	P.71
SERVO	P.72
TLMTRY	P.73
SENSOR	P.86
S.BUS	P.88
M TRANS	P.91

MENU 3/4

TIMER	P.92
TRAINER	P.94
CONDIT	P.137
DR EXP	P.138
MOT SW	P.140
GYRO	P.141

MENU 4/4

AIL DIF	P.142
V TAIL	P.143
BUTFLY	P.144
TRM MIX	P.145
EL CMB	P.146
CMB MIX	P.148
AL CMB	P.149





CONDIT Condition

(GLIDER)

WING TYPE

1AIL1FLP

2AIL

2AIL1FLP

2AIL2FLP

Function

The condition function lets you change multiple settings by one switch operation. Different settings can be made immediately by switching 2 conditions.

•The functions that can be changed by condition are:

- Camber MIX
- Butterfly
- ELE→Camber
- AIL→Camber
- Trim mix

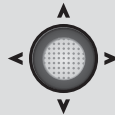
Method

Calling the setting screen

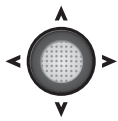
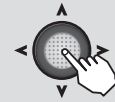
Call the menu screen from the home screen by pressing the + key for 1 second.



Select "CONDIT" from the menu with the Jog key.



Open the setting screen by pressing the Jog key.



Condition1
Condition2

CONDITION (NORM)

1 ▶ INH ▶ SwA ▶ DWN
2 ▶ INH ▶ SwA ▶ DWN

Select the setting item with the Jog key.

(Activating the function) (Switch selection) (Switch direction)

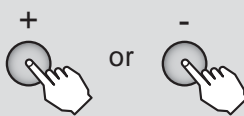
When not using this Function select INH. The display of On/Off is shown when active and assigned to a switch.

Priority is given to the condition 2 when the condition 1 and 2 is turned on simultaneously.

CONDITION

Activating the function

Select the "INH" item of the condition you want to use and then set that condition to "ON" or "OFF" by pressing the + key or key.

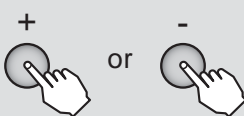


Set conditions you do not want to use to "INH".

(Changing the switch)

Switch selection

Change the switch by pressing the + key or key at the switch selection item.

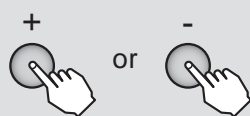


Range : SwA ~ SwD

Default : SwA

Switch direction

Select the ON direction by pressing the + key or key at the ON direction selection item.



Range :

2P SW : NUL, UP, DWN

3P SW : NULL, UP, U&D, U&C, CNT, C&D, DWN



DR EXP Dual rate / EXPO (GLIDER)

WING TYPE 1AIL 1AIL1FLP 2AIL 2AIL1FLP 2AIL2FLP

Function

D/R

The aileron, elevator and rudder channel control surface angle can be switched in 2(3) steps

- The control surface angle is adjusted by each direction of the switch. The direction of each switch can be set individually.

EXP

This function makes operation more pleasant by changing the operating curve so that servo movement is sluggish or sensitive relative to stick operation near the aileron, elevator, throttle, and rudder neutral position. Adjustments can be made in 2(3) steps according to the control surface angle.

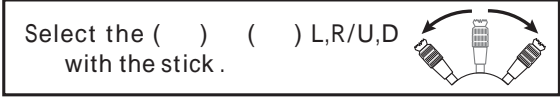
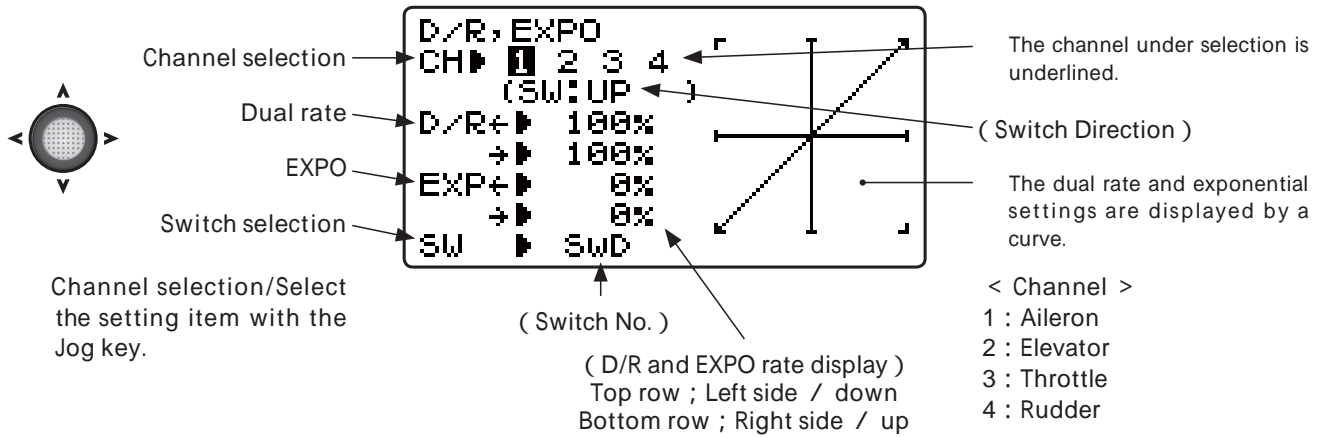
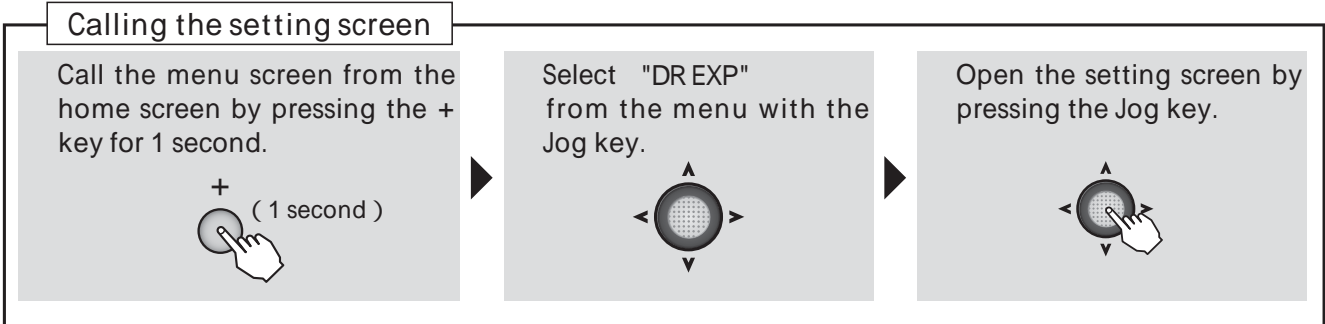
- The "-" side makes servo movement sluggish and the "+" side makes servo movement sensitive near the neutral position. Exponential is applied to entire throttle servo travel. When the "+" side is increased, the slow side becomes sluggish and the high side becomes sensitive.
- Setting corresponding to each rate of dual rate (D/R) is possible. (Except throttle) The direction of each switch and the left and right (up and down) direction of each channel can be set individually.

Switch selection (SW)

Switches A to D can be selected as the aileron channel, elevator channel, and rudder channel dual rate (exponential) switch.

- Default : Aileron : SwitchD / Elevator : SwitchA / Rudder : SwitchB

Method



Glider



D/R

A channel is chosen by Jog key.



Range : 1, 2, 4

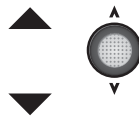
Adjust the rate by moving the cursor to D/R with the Jog key, switching the dual rate switch to the direction you want to set, moving the stick to the left (down) or right (up) side and pressing the + key or - key.



Range :
0 ~ 140%
Default : 100%

When you want to return the set value to the initial value, press the + key and - key simultaneously.

Adjust the rate of each direction of the dual rate switch and stick by repeating step



Moving to another setting item of the same channel is possible by Jog key.

EXPO

Select the "EXP" item and then select the channel with the Jog key.



Range : 1 ~ 4

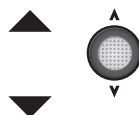
Adjust the rate by moving the cursor to EXP with the Jog key, switching the dual rate switch to the direction you want to set, moving the stick to the left (down) or right (up) side and pressing the + key or - key.



Range :
-100 ~ +100%
Default : 0%

When you want to return the set value to the initial value, press the + key and - key simultaneously.

Adjust the rate of each direction of the dual rate switch and stick by repeating step



Moving to another setting item of the same channel is possible by Jog key.

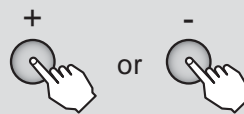
Switch Change

Select the "SW" item and then select the channel with the Jog key.



Range : 1, 2, 4

A switch is chosen by + key or -key.



Range : SwA ~ SwD



MOT SW Motor switch

(GLIDER)

WING TYPE 1AIL 1AIL1FLP 2AIL 2AIL1FLP

Function

This function sets the operating motor when the EP glider with motor is started by switch. The operating speed can individually set in 2 ranges of high from slow and slow from high. **If you do motor control with a throttle stick, you should set this function to INH.**

- For safety, the ON/OFF switch of the aircraft itself can be set.
- If a transmitter power supply is switched on while the motor SW has been ON, the warning will operate. Be sure to switch on a power supply with the motor-start switch OFF.

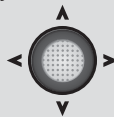
Method

Calling the setting screen

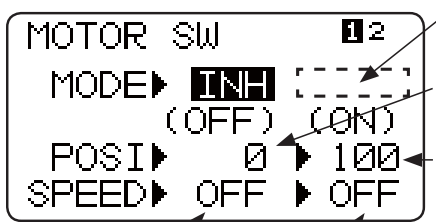
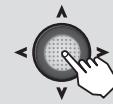
Call the menu screen from the home screen by pressing the + key for 1 second.



Select "MOT SW" from the menu with the Jog key.



Open the setting screen by pressing the Jog key.



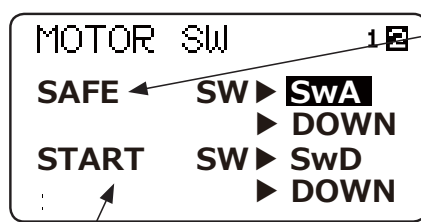
Present motor control position

OFF-position (0% : OFF)

ON-position (100% : High)

Decelerating speed setting

Accelerating speed setting

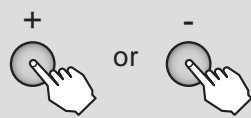


Start SW

If this safety switch is not ON, the motor will not start even if the starter switch is turned on. In "NULL", a safe function does not work.

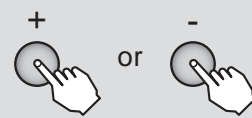
Motor

Activating the function Select the "MODE" item and then select the "OFF" by pressing the + key or - key.



When you do not use a function, set to the "INH" side.

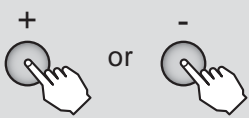
Switch selection Change the switch by pressing the + key or - key at the switch selection item.



Range : SwA ~ SwD

Switch direction

Select the "DOWN" item and then select the position by pressing the + key or - key.



2P SW : UP, DOWN
3P SW : UP, UP&D, UP&C, CNTR, C&DN, DOWN

Speed setting

Select "SPEED" next to (OFF) and (ON) by Jog key.

Range : OFF, 1 ~ 10 (more slowly)

(ON) is the acceleration speed setting.

(OFF) is the deceleration speed setting.

⚠ DANGER



Always remove the propeller from the motor during setting and at operation checks.

■There is the danger of the propeller spinning unexpectedly and causing a serious injury.



GYRO

Gyro sensor

(GLIDER)

WING TYPE

1AIL

2AIL

Function

This function is dedicated mixing for switching the gyro sensitivity and gyro mode (AVCS/NORMAL) of Futaba airplane use gyros.

- The sensitivity switch can be selected and the sensitivity of each direction of the switch can be set. (Switches A to D) If the airplane stalls during flight, the gyro will lose control of the plane's

attitude. From the standpoint of safety, we recommend that the OFF (0%) position also be set using a 3 position switch.

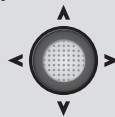
Method

Calling the setting screen

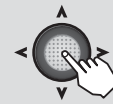
Call the menu screen from the home screen by pressing the + key for 1 second.



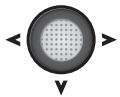
Select "GYRO" from the menu with the Jog key.



Open the setting screen by pressing the Jog key.



Each switch position
Gyro type / Gain rate



Select the setting item with the Jog key.

GYRO	MIX ▶ INH	←
	Sw ▶ SwB	←
UP ▶ NOR	40%	■
CNT ▶ NOR	20%	
DWN ▶ NOR	10%	

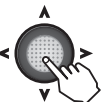
(Gyro type) (Gyro Gain)

When not using this function, select INH.

Gain switch selection

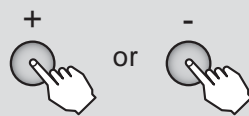
(Current switch operating direction)

Switches to the sensitivity setting screen of each switch direction when the Jog key is pressed.



GYRO SENS

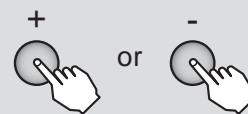
Activating the function
Select the "MIX" item and then select the "ON" by pressing the + key or - key.



When you do not use a function, set to the "INH" side.

Gain switch selection

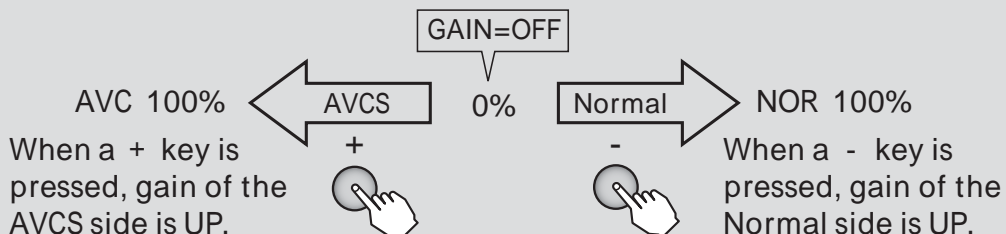
Select the "SW" item and then select the switch by pressing the + key or - key.



Range : SwA ~ SwD Default : SwB

Gyro mode and gain setting

UP, CNT, DWN, shows the switch position. Set the respective positional gain and mode.



Glider



AIL DIF Aileron differential (GLIDER)

WING TYPE

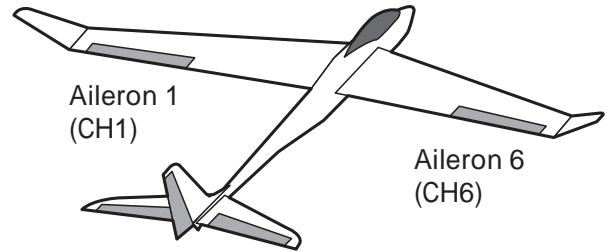
2AIL 2AIL1FLP 2AIL2FLP

Function

Two servos can be used for ailerons and a differential can be applied to left and right aileron operation. The left and right aileron differential can be adjusted independently. This function is restricted to 2 servo aileron.

Connect the left aileron to CH1 (AIL) and the right aileron to CH6.

- The up and down angle of the left and right aileron control surface can be adjusted individually.



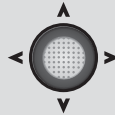
Method

Calling the setting screen

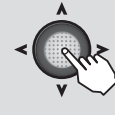
Call the menu screen from the home screen by pressing the + key for 1 second.



Select "AIL DIF" from the menu with the Jog key.



Open the setting screen by pressing the Jog key.



Aileron 1 (CH1) rate
Aileron 6 (CH6) rate

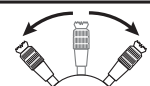
AIL DIF

	(L)	(R)
AIL1 ▶	+100	+100
AIL6 ▶	+100	+100

(Aileron rate)
L : Aileron Stick Left side rate
R : Aileron Stick Right side rate

Select the setting item with the Jog key.

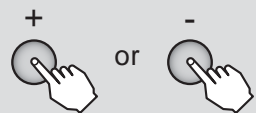
Select the Left/Right with the aileron stick.



Aileron Differential

Activating the function
Select the "2AIL" or "2AIL1FLP" "2AIL2FLP" by WING type (MDL TYP).

Aileron rate
Select the "AIL1" item and move the aileron stick to the left and right and adjust the travel of each servo by pressing the + key or - key.



Range : -120 ~ +120%
Default : +100%

When you want to return to the initial value, press the + key and - key simultaneously. However, when the polarity is changed only the number returns to the initial value.

(Adjust the "AIL6" item in the same way as .)



V-TAIL

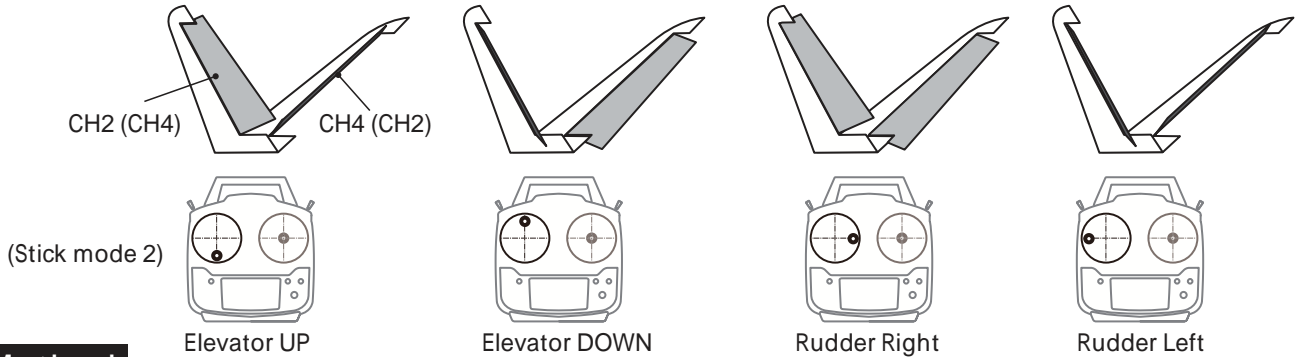
V-Tail

(GLIDER)

WING TYPE 1AIL 1AIL1FLP 2AIL 2AIL1FLP 2AIL2FLP

Function

This mixing is used with V tail aircraft that combine the elevator and rudder functions.



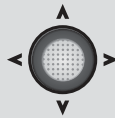
Method

Calling the setting screen

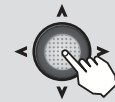
Call the menu screen from the home screen by pressing the + key for 1 second.



Select "V-TAIL" from the menu with the Jog key.



Open the setting screen by pressing the Jog key.



Activating the function

ELE2 rate

ELE4 rate

RUD2 rate

RUD4 rate

U-TAIL → MIX → INH

ELE → ELE2 → + 50

→ ELE4 → - 50

RUD → RUD2 → + 50

RUD → RUD4 → + 50

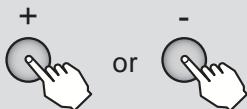
(Rate adjustment)

When INH is selected, the function cannot be used. To use the function, select ACT.

Select the setting item with the Jog key.

V-TAIL

Activating the function
Select the "MIX" item and then select the "ACT" by pressing the + key or key.



When you do not use a function, set to the "INH" side.

Rate adjustment
Select the value item and then adjust the mixing rate by pressing the + key or key.



Range : -100 ~ +100%
Default : +50%
(only ELE4 : -50%)

When you want to return the set value to the initial value, press the + key and key simultaneously. However, polarity does not return.

NOTE : We recommend that setting be performed while moving the stick and checking the amount of movement. If the amount of movement is too large, elevator and rudder operation will be compounded and the servo travel range will be exceeded and a dead band in which the servo will not operate may be created.

Glider



BUTFLY Butterfly mixing

(GLIDER)

WING TYPE

1AIL1FLP

2AIL

2AIL1FLP

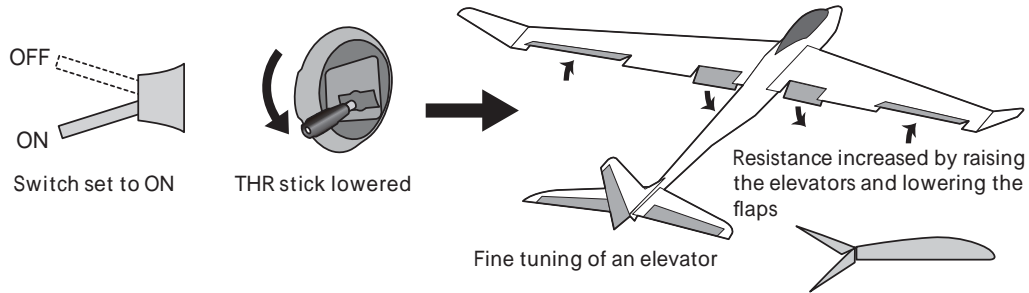
2AIL2FLP

Function

This function is utilized to quickly slow the aircraft and reduce altitude by simultaneously raising the left and right ailerons and lowering the flap.

Butterfly (Crow) produces an extremely efficient landing configuration by accomplishing the following:

1. Slow the aircraft's velocity.
2. Provide washout at the wing tips to reduce the tendency to tip stall.
3. Create more lift toward the center of the wing allowing it to fly at a slower speed
 - Mixing during flight can be turned ON/OFF by setting a switch.
 - The point at which the butterfly operation reference point can be offset.
 - The differential rate can be adjusted.



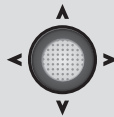
Method

Calling the setting screen

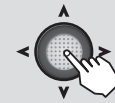
Call the menu screen from the home screen by pressing the + key for 1 second.



Select "BUTFLY" from the menu with the Jog key.



Open the setting screen by pressing the Jog key.



Amount of movement setting

Aileron
Flap
Elevator

BUTTERFLY 1 2

AL1 ▶ [] 6 ▶ []

FL5 ▶ [] 3 ▶ []

ELE ▶ []

(NORM)

It can't be set.
< It's caused by the wing type. >

Butterfly : ACT/INH

BUTTERFLY 1 2

MIX ▶ INH []

SW ▶ SwA ▶ DOWN []

OFST ▶ 60% ([])

(NORM)

When MIX is set to ACT, the amount of MIX(s) according to stick operation is displayed.

Can be either set to a switch or when NULL is controlled by the THR stick.

Current THR stick position
0% : Low 100% : High

(Currently selected condition)

○ set setting Select "OFST" XX%.

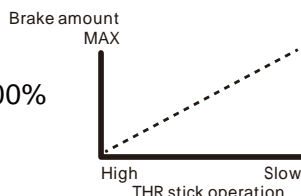


At THR stick high



press the Jog key for 1 second

OFST 100%

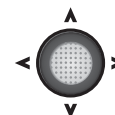
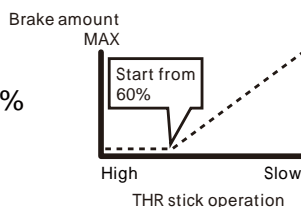


At THR stick 60%



press the Jog key for 1 second

OFST 60%



Select the setting item with the Jog key.



The value is changed by + key or - key.

When offset is set below a center, the mixing of THR stick operates by the high side.



TRM MIX

Trim mix

(GLIDER)

WING TYPE

1AIL1FLP

2AIL

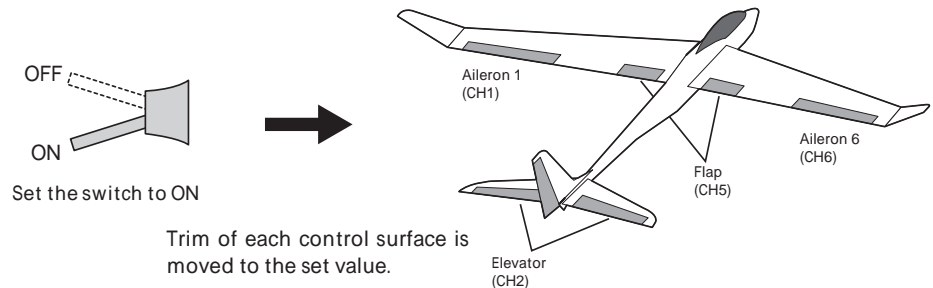
2AIL1FLP

2AIL2FLP

Function

This function shifts the ailerons, elevator, and each flap trim to the preset position by means of a switch.

•The servo speed at which trim is to the set position can be set.



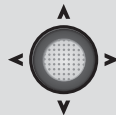
Method

Calling the setting screen

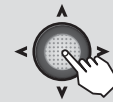
Call the menu screen from the home screen by pressing the + key for 1 second.



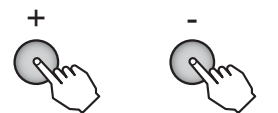
Select "TRM MIX" from the menu with the Jog key.



Open the setting screen by pressing the Jog key.



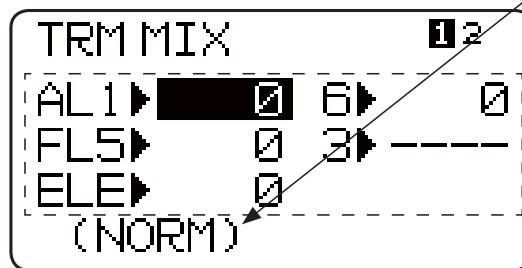
Select the setting item with the Jog key.



The value is changed by + key or - key.

Activating the function
When not using this function, select INH.

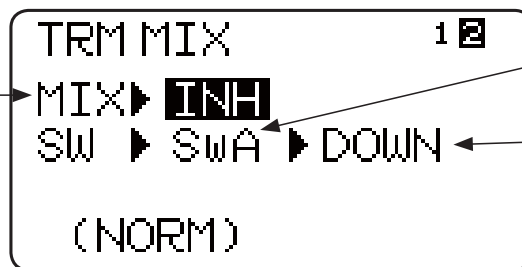
[TRIM MIX page1]



When condition is used, the display can be switched and each connection can be set by switching the condition switch.

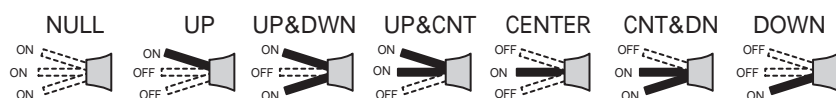
Sets the trim neutral position of each control surface.
Range : -100 ~ +100
Returned to 0 by pressing the + key and key simultaneously.

[TRIM MIX page2]

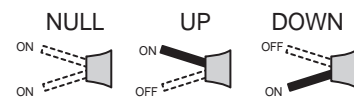


The ON/OFF switch can be changed. (Selected with the Jog key and changed with the +key)
Sets the ON/OFF direction of the selected switch.

3 Position Switch



2 Position Switch





EL CMB Elevator Camber mixing (GLIDER)

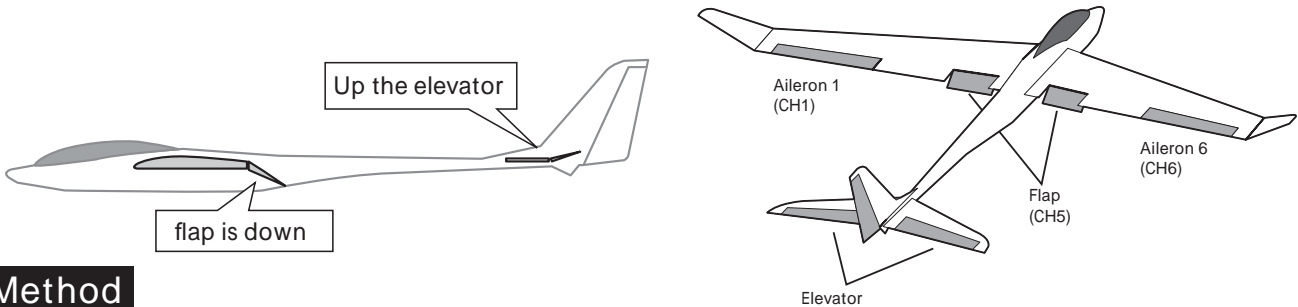
WING TYPE

2AIL 2AIL1FLP 2AIL2FLP

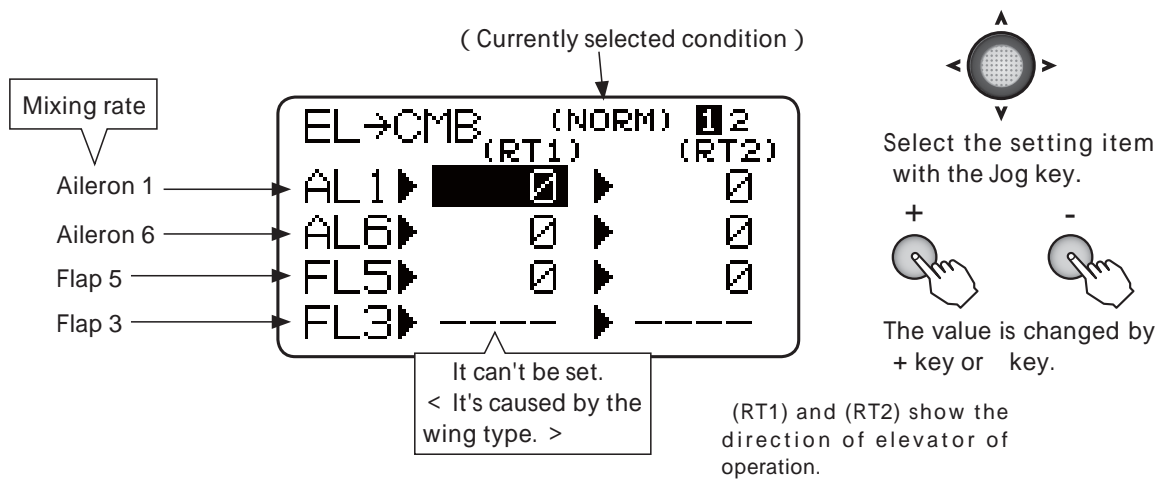
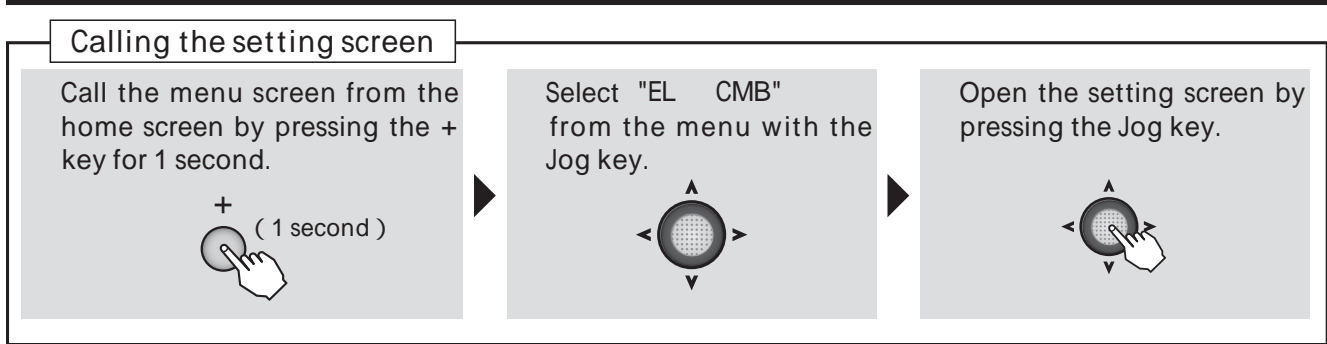
Function

This function is used when you want to mix the camber flaps with elevator operation. When used, the flaps are lowered by up elevator, and lift is increased.

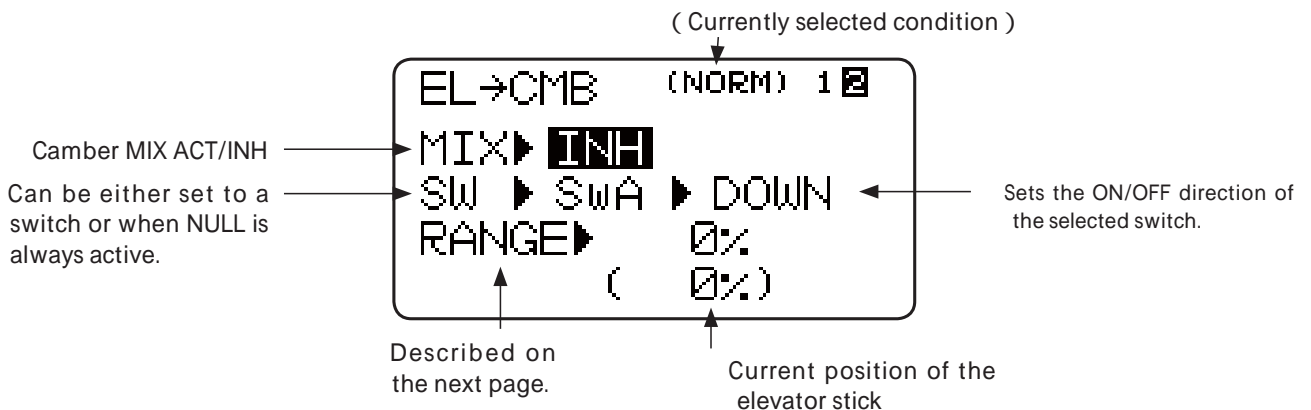
- In-flight mixing can be turned ON/OFF by assigning this to a switch. (Always ON at SW [NULL] setting)
- The mixing rate can be adjusted.
- Setting so that the flaps are not operated near the center of the elevators is possible. (RANGE)



Method



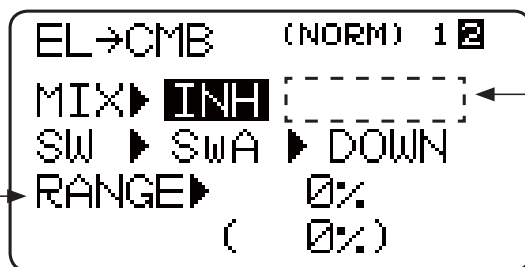
[ELE Camber 2 page]



Glider



[ELE Camber 2 page]



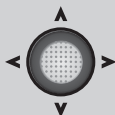
When MIX is set to ACT, the amount of MIX(s) according to stick operation is displayed.

Setting that inhibits camber mixing near the elevator center position. Setting so that camber mixing is performed only when the elevators were operated greatly is possible.

RANGE setting

Setting state

Select the "0%" item next to RANGE with the Jog key.



To setting value

Move the elevator stick to the position you want operation to begin.



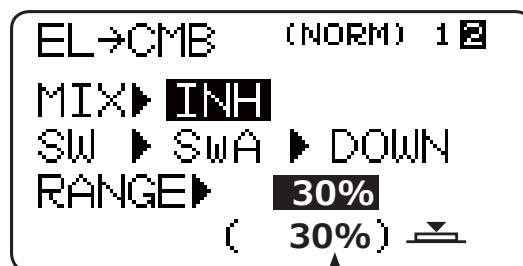
Can be either up or down. When set to down, the up side is also set by the same amount.

Set value memorization

Press the Jog key for 1 second.



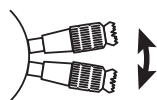
Hold the stick in position.



When elevator operation exceeds the range, the stick position is displayed and mixing is performed.

When a RANGE number is selected and the Jog key is pressed for 1 second, RANGE is reset to 0% and normal mixing is performed.

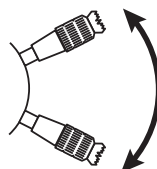
Use example of RANGE



Elevator Operation



Only an elevator moves in case of a little operation.



Elevator and flap move in case of big operation.



CMB MIX Camber mixing

(GLIDER)

WING TYPE

1AIL1FLP

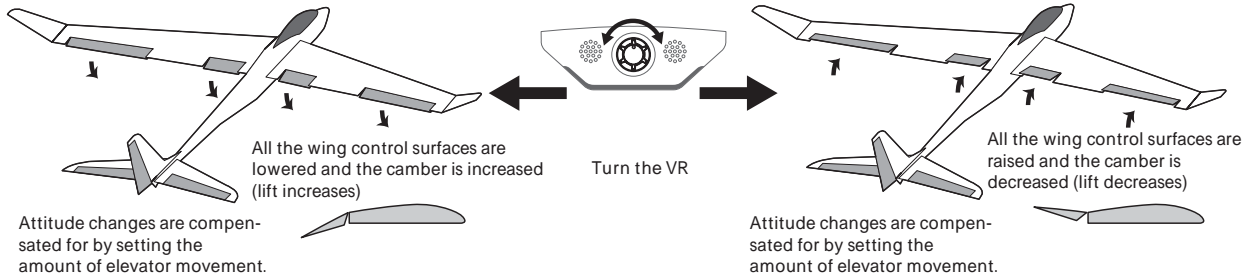
2AIL1FLP

2AIL2FLP

Function

This function adjusts the rate of camber operation for the wing camber (ailerons, flap) in the negative and positive directions. The aileron, flap, and elevator rates can also be adjusted independently and attitude changes caused by camber operation can be corrected.

- *Initial setting assigns camber operation to VR.
- Operation can be turned on and off by switch
- VR can be changed by AUX channel 5



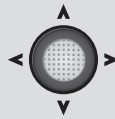
Method

Calling the setting screen

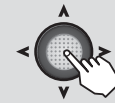
Call the menu screen from the home screen by pressing the + key for 1 second.



Select "CMB MIX" from the menu with the Jog key.



Open the setting screen by pressing the Jog key.



Sets the amount of movement when the VR was turned.

Aileron 1 → AL1

Aileron 6 → AL6

Flap 5 → FL5

Flap 3 → FL3

(Currently selected condition)

CMB MIX (NORM)	12
(RT1)	(RT2)
AL1	0
AL6	0
FL5	0
FL3	---

Select the setting item with the Jog key.

The value is changed by + key or - key.

(RT1) : The amount of operations when VR is turned to the right.

(RT2) : The amount of operations when VR is turned to the left.

[CMB MIX 2 page] (Currently selected condition)

Amount of compensation of the elevator when the camber changed.

Camber MIX ACT/INH

Can be set to operate from a switch. When NULL, it is operated by a VR.

CMB MIX (NORM)	12
(RT1)	(RT2)
ELE	0
MIX	INH
SW	SWA DOWN

Sets the ON/OFF direction of the selected switch.



AL CMB Aileron Camber mixing

(GLIDER)

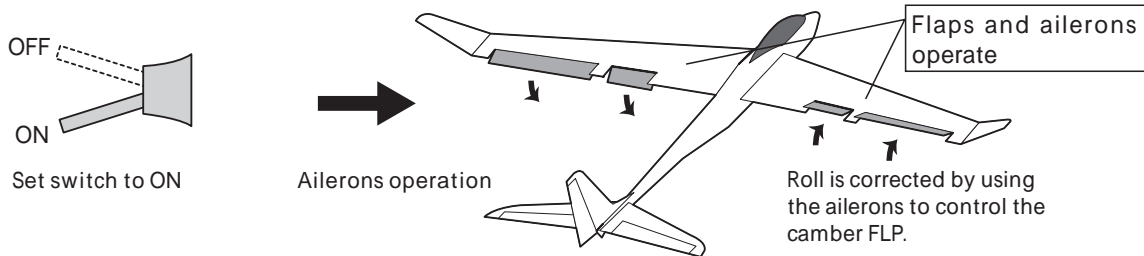
WING TYPE

2AIL2FLP

Function

This mixing links the camber flaps with aileron operation (stick). It is used when you want to increase roll axis maneuverability.

•When the mixing direction is reversed by the linkage, adjustments can be made by changing the rate polarity.



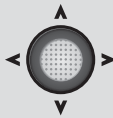
Method

Calling the setting screen

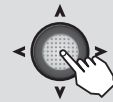
Call the menu screen from the home screen by pressing the + key for 1 second.



Select "AL CMB" from the menu with the Jog key.

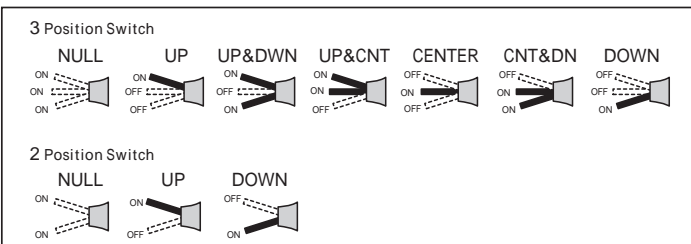


Open the setting screen by pressing the Jog key.



When not using this function, select INH.

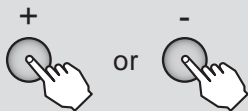
When condition was used, the display can be switched and each connection can be set by switching the condition switch.



The ON/OFF switch can be changed. (Selected with the Jog key and changed with the +key) Sets the ON/OFF direction of the selected switch.

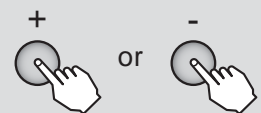
AIL Camber mixing

Activating the function Select the "MIX" item and then select the "ON" by pressing the + key or key.



When you do not use a function, set to the "INH" side.

Mixing rate Select the value item and then adjust the mixing rate by pressing the + key or key.



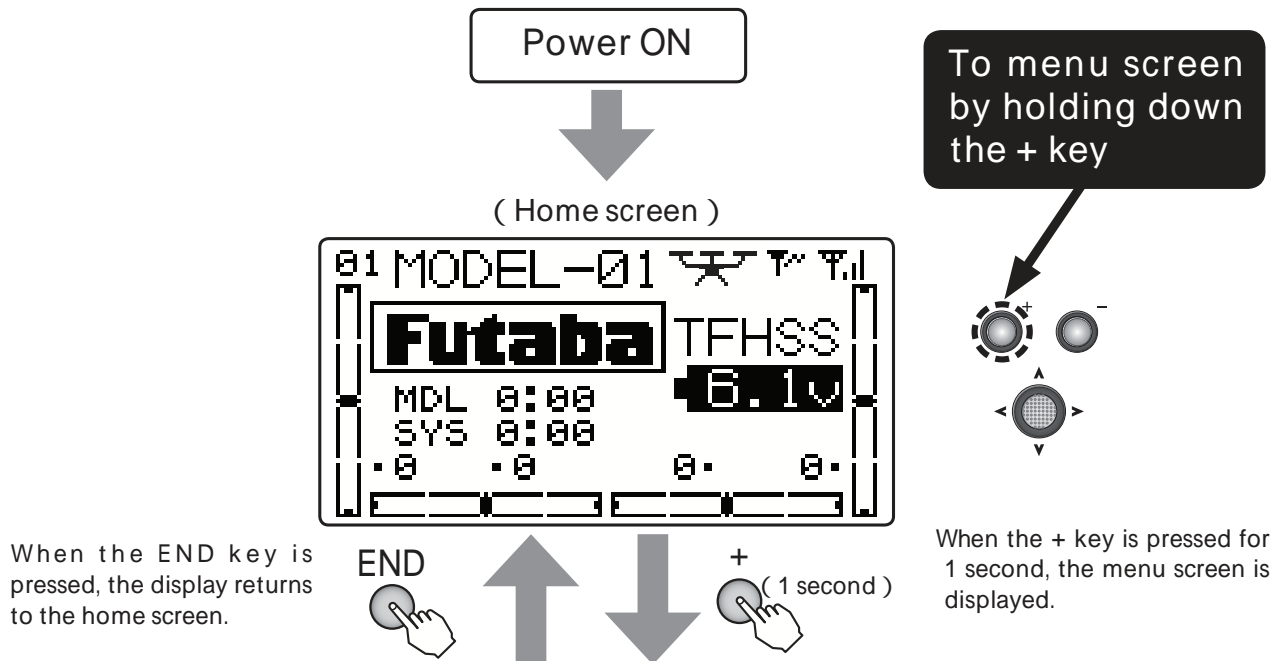
Range : -120 ~ +120%
Default : 0%

When you want to return the set value to the initial value, press the + key and key simultaneously.

Multicopter Function



The setting screen of each function is called from the following menu. The function when the model type was set to multicopter (MULTI COPT) is displayed here.



Multicopter

MENU

MENU 1/3

MENU 1 2 3
 ▶ MDL SEL ▶ E POINT
 ▶ MDL TYP ▶ TRIM
 ▶ MDL NAM ▶ SUB TRM
 ▶ F/S ▶ REVERS

MENU 2/3

MENU 1 2 3
 ▶ PRMTR ▶ TLMTRY
 ▶ P. MIX ▶ SENSOR
 ▶ AUX CH ▶ S. BUS
 ▶ SERVO ▶ M TRANS

MENU 3/3

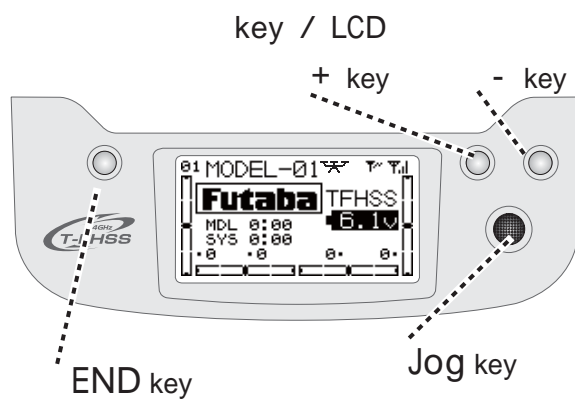
MENU 1 2 3
 ▶ TIMER ▶ DR EXP
 ▶ TRAINR ▶ THR CRV
 ▶ FLY MOD ▶ THR DLY
 ▶ CNT ALM ▶ GYRO

(Selection)

Move the cursor (highlighted) up and down and to the left and right with the Jog key and select the function. The cursor can be moved over several pages.

(Calling the setting screen)

Press the Jog key to open the setting screen.



Refer to "Common Functions" previously described for a description of this function.

Function

MENU 1/3

MENU 2/3

MENU 3/3

MDL SEL	P.50
MDL TYP	P.53
MDL NAM	P.55
F/S	P.57
E POINT	P.59
TRIM	P.60
SUB TRM	P.61
REVERS	P.62

PRMTR	P.63
P.MIX	P.68
AUX CH	P.71
SERVO	P.72
TLMTRY	P.73
SENSOR	P.86
S.BUS	P.88
M TRANS	P.91

TIMER	P.92
TRAINER	P.94
FLY MOD	P.152
CNT ALM	P.153
DR EXP	P.154
THR CRV	P.156
THR DLY	P.157
GYRO	P.158

Multicopter



FLY MOD Flight mode

(MULTICOPT)

Function

This flight mode is used for a controller of the multi-copter connected to 6CH.

4 can be changed to a flight mode by the chosen switch. It's used in case of a controller of a multicopter of the type to which the flight mode can be changed.

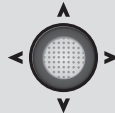
Method

Calling the setting screen

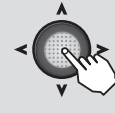
Call the menu screen from the home screen by pressing the + key for 1 second.



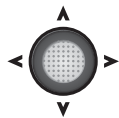
Select "FLY MOD" from the menu with the Jog key.



Open the setting screen by pressing the Jog key.



When not using this Function select INH. The display of On/O is shown when active and assigned to a switch.



Select the setting item with the Jog key.

FLY MOD				CH6
1	INH	SWA	DOWN	0
2	INH	SWA	DOWN	0
3	INH	SWA	DOWN	0
4	INH	SWA	DOWN	0

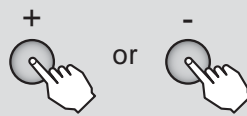
(Activating the function) (Switch selection) (Switch direction)

NOR is setting of CH6 of the state that SW is off. 0 is usually used in this state neutrally. Even if the numerical value is changed in case of INH, movement doesn't reflect 1-4.

Priority is given to the mode 2 when the mode 1 and 2 is turned on simultaneously.

Flight mode

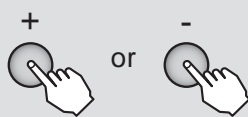
Activating the function Select the "INH" item of the condition you want to use and then set that flight mode to "ON" or "OFF" by pressing the + key or - key.



Set conditions you do not want to use to "INH".

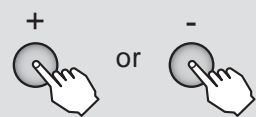
(Changing the switch)

Switch selection Change the switch by pressing the + key or - key at the switch selection item.



Range : SwA ~ SwD
Default : SwA

Switch direction Select the ON direction by pressing the + key or - key at the ON direction selection item.



Range :
2P SW : NULL, UP, DOWN
3P SW : NULL, UP, UP&D, UP&C, CNTR, C&DN, DOWN

Multicopter



CNT ALM

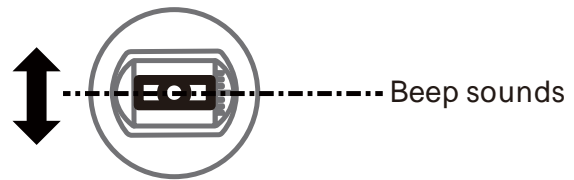
Center alarm

(MULTICOPT)

Function

An alarm (single beep) can be sounded at the specified throttle stick position.

- Alarm function ON/OFF can be set by switch.



When the THR stick is set to the specified position.

Method

Calling the setting screen

Call the menu screen from the home screen by pressing the + key for 1 second.

Select "CNT ALM" from the menu with the Jog key.

Open the setting screen by pressing the Jog key.

When INH is selected, the function cannot be used. When ON or OFF is selected, the function is activated. ON and OFF changes are linked to the switch.

INH ON/OFF → MODE ▶ INH

Switch selction → SW ▶ SwA

Switch direction → POSI ▶ DOWN

Stick position → STCK ▶ 50% (0%)

The number in parenthesis is the current throttle stick position.

CNT ALM 1 2

STICK LOW

ALARM ▶ OFF

Select the item with the Jog key.

This is a throttle stick position alarm. When a throttle stick was besides the slow position and a transmitter was turned on. Alarm start

Position setting

Stick position is chosen by Jog key.

CNT ALM 1 2

MODE ▶ OFF

SW ▶ SwA

POSI ▶ DOWN

STCK ▶ 50% (0%)

Set the throttle stick to the position at which you want to generate the alarm.

THR Stick

When the Jog key is held down the alarm sounds at that position.

Memorize the position at which the beep is to sound.

Multicopter



Function

D/R

The aileron, elevator and rudder channel control surface angle can be switched in 2(3) steps

- The control surface angle is adjusted by each direction of the switch. The direction of each switch can be set individually.

EXP

This function makes operation more pleasant by changing the operating curve so that servo movement is sluggish or sensitive relative to stick operation near the aileron, elevator, throttle, and rudder neutral position. Adjustments can be made in 2(3) steps according to the control surface angle.

- The "-" side makes servo movement sluggish and the "+" side makes servo movement sensitive near the neutral position. Exponential is applied to entire throttle servo travel. When the "+" side is increased, the slow side becomes sluggish and the high side becomes sensitive.
- Setting corresponding to each rate of dual rate (D/R) is possible. (Except throttle) The direction of each switch and the left and right (up and down) direction of each channel can be set individually.

Switch selection (SW)

Switches A to D can be selected as the aileron channel, elevator channel, and rudder channel dual rate (exponential) switch.

- Default : Aileron : SwitchD / Elevator : SwitchA / Rudder : SwitchB

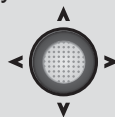
Method

Calling the setting screen

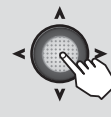
Call the menu screen from the home screen by pressing the + key for 1 second.



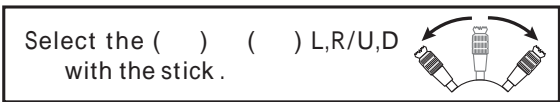
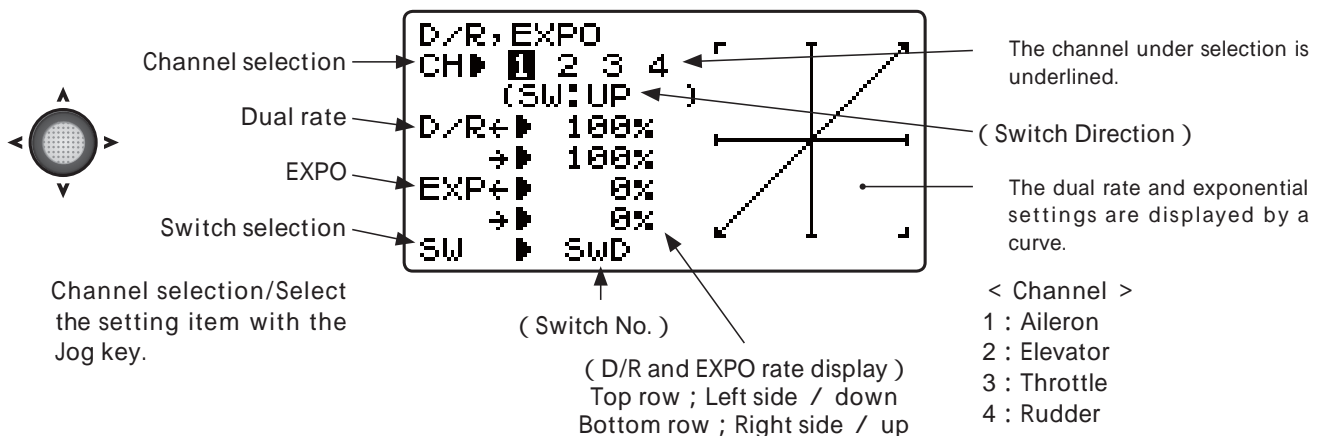
Select "DR EXP" from the menu with the Jog key.



Open the setting screen by pressing the Jog key.



Multicopter





D/R

A channel is chosen by Jog key.



Range : 1, 2, 4

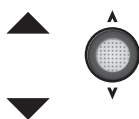
Adjust the rate by moving the cursor to D/R with the Jog key, switching the dual rate switch to the direction you want to set, moving the stick to the left (down) or right (up) side and pressing the + key or - key.



Range :
0 ~ 140%
Default : 100%

When you want to return the set value to the initial value, press the + key and - key simultaneously.

Adjust the rate of each direction of the dual rate switch and stick by repeating step



Moving to another setting item of the same channel is possible by Jog key.

EXPO

Select the "EXP" item and then select the channel with the Jog key.



Range : 1 ~ 4

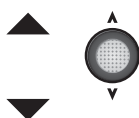
Adjust the rate by moving the cursor to EXP with the Jog key, switching the dual rate switch to the direction you want to set, moving the stick to the left (down) or right (up) side and pressing the + key or - key.



Range :
-100 ~ +100%
Default : 0%

When you want to return the set value to the initial value, press the + key and - key simultaneously.

Adjust the rate of each direction of the dual rate switch and stick by repeating step



Moving to another setting item of the same channel is possible by Jog key.

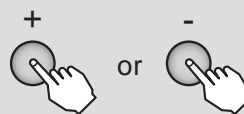
Switch Change

Select the "SW" item and then select the channel with the Jog key.



Range : 1, 2, 4

A switch is chosen by + key or -key.



Range : SwA ~ SwD



THR CRV Throttle curve

(MULTICOPT)

Function

This function sets a 5 point throttle curve so that the engine/motor speed relative to movement of the throttle stick is the optimum value for flight.

- A curve can be set for each switch position.

However, this function cannot be used when the throttle EXP function was set. When this function is set, the throttle EXP function cannot be used.

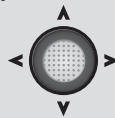
Method

Calling the setting screen

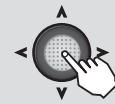
Call the menu screen from the home screen by pressing the + key for 1 second.



Select "THR CRV" from the menu with the Jog key.



Open the setting screen by pressing the Jog key.



Activating the function

Switch selection

5 point curve set

Select the setting item with the Jog key.

```

THR-CURVE
MIX INH
SW SWC (UP)
P-5) 100.0%
P-4) 75.0%
P-3) 50.0%
P-2) 25.0%
P-1) 0.0%
          
```

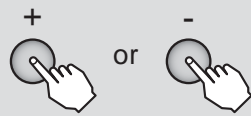
When not using this function, select INH.

The set-up curve is shown

(Present switch position)

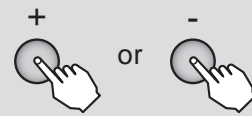
Throttle curve

Activating the function
Select the "MIX" item and then select the "ON" by pressing the + key or - key.



When you do not use a function, set to the "INH" side.

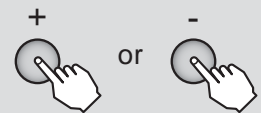
Switch selection
Select the "SW" item and then select the switch by pressing the + key or - key.



Range : SwA ~ SwD, Default : SwC

5 point curve set

By Jog key, either of P-1 to P-5 is chosen. The + key or - key is pressed and a rate is set up.



Range : 0 ~ 100%

Default : P-1:0%, P-2:25%, P-3:50%, P-4:75%, P-5:100%



THR DLY Throttle delay (MULTICOPT)

Function

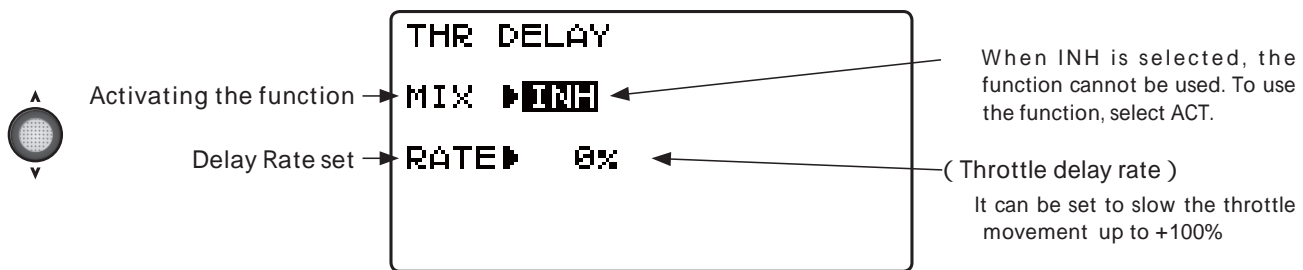
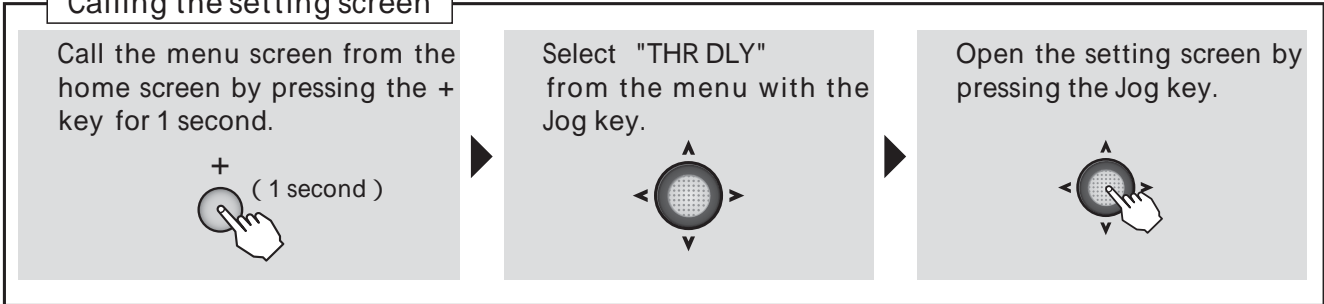
When this function is used, the throttle operating speed can be slowed down.

When the motor response is too sensitive, it's used.

- The amount of delay can be set.

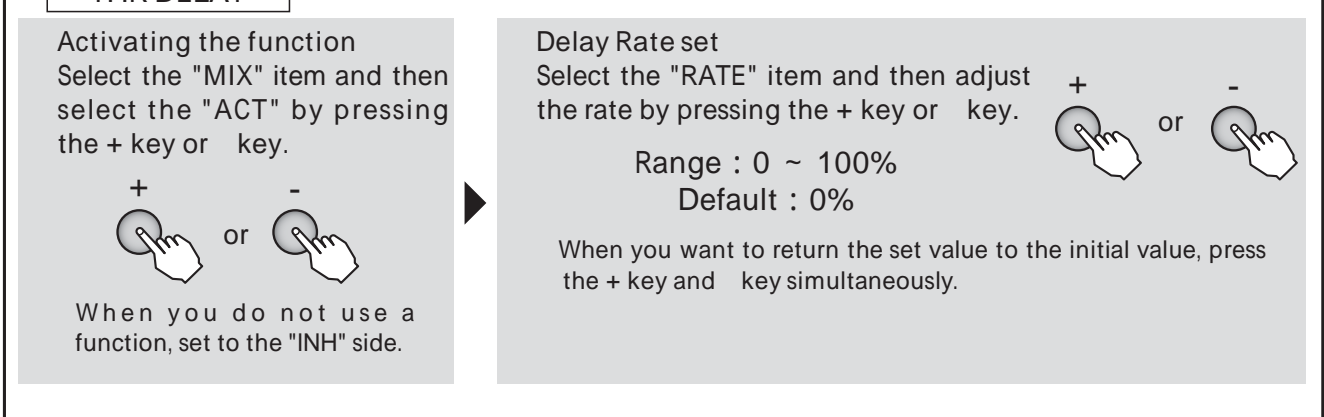
Method

Calling the setting screen



Select the setting item with the Jog key.

THR DELAY





GYRO

Gyro sensor

(MULTICOPT)

Function

This function is dedicated mixing for switching the gyro sensitivity and gyro mode (AVCS/NORMAL) of Futaba airplane use gyros.

- This gyro function isn't used for a flight. A flight gyro is equipped already in a multicopter. (e.g, the angle keep of the camera, it's used.)

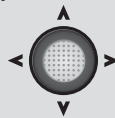
Method

Calling the setting screen

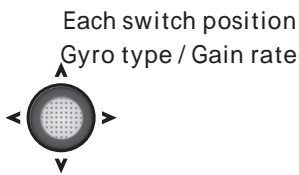
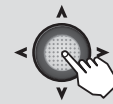
Call the menu screen from the home screen by pressing the + key for 1 second.



Select "GYRO" from the menu with the Jog key.



Open the setting screen by pressing the Jog key.



Select the setting item with the Jog key.

GYRO	MIX ▶ INH	←
UP ▶ NOR	40%	←
CNT ▶ NOR	20%	←
DWN ▶ NOR	10%	←

Labels: (Gyro type) (Gyro Gain)

When not using this function, select INH.

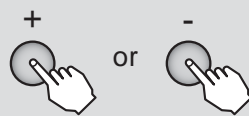
Gain switch selection

(Current switch operating direction)

Switches to the sensitivity setting screen of each switch direction when the Jog key is pressed.

GYRO SENS

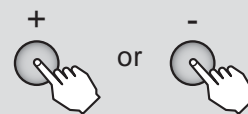
Activating the function
Select the "MIX" item and then select the "ON" by pressing the + key or - key.



When you do not use a function, set to the "INH" side.

Gain switch selection

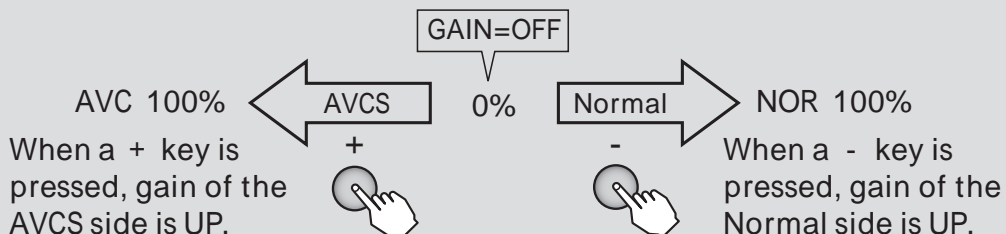
Select the "SW" item and then select the switch by pressing the + key or - key.



Range : SwA ~ SwD Default : SwB

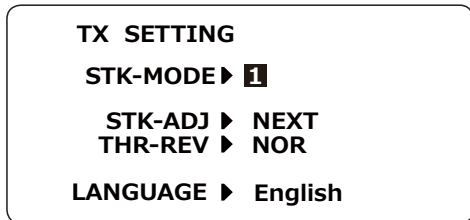
Gyro mode and gain setting

UP, CNT, DWN, shows the switch position. Set the respective positional gain and mode.



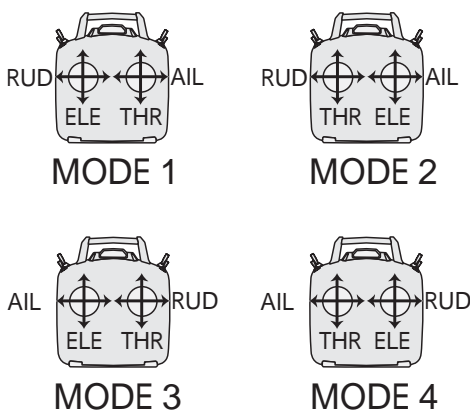
TX SETTING

The settings here are special settings that are unnecessary during normal use. The stick mode can be changed and stick adjustment (calibration), throttle lever reverse, and language can be set.



Turn on the power switch with the + key and key pressed in the power o state. The screen shown at the left appears. To return to the home screen, turn off the power and then turn the power back on without pressing the keys.

STK-MODE



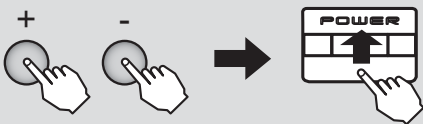
This is the MODE1 ~ MODE4 setting. The initial state is MODE2. To change the mode the stick ratchet must be changed. Request that this be done by Futaba Service. (Charged modification)

STK-ADJ

This function is normally not used. If stick deviation should occur, make this adjustment. Do not use it in the normal state.

Calling the setting screen

Turn off the power and then turn the power back on while pressing the + key and key simultaneously.



Select STK-ADJ NEXT in the menu with the Jog key.

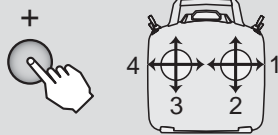


Enter the setting screen by pressing the Jog key.

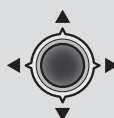


Stick adjustment

Select the stick you want to adjust with 1 ~ 4 with the + key.

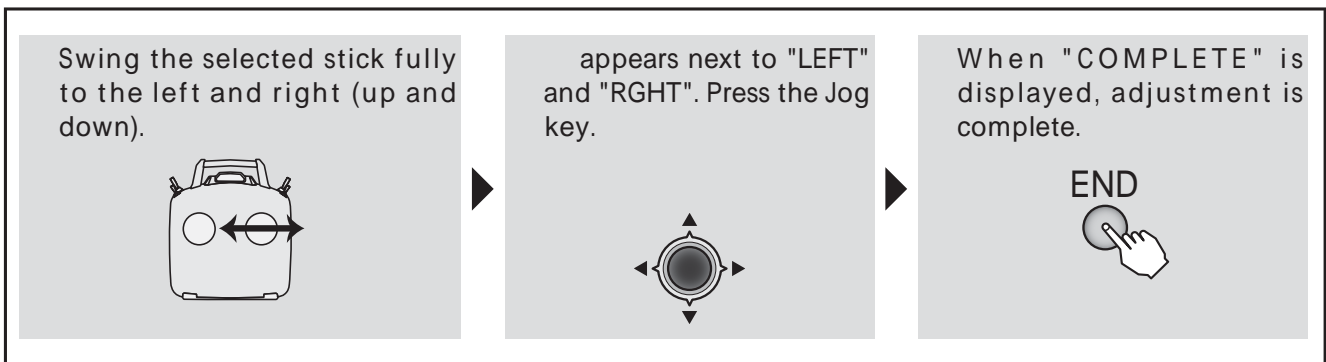


Press the Jog key down and select NEUT .



Set the stick to the neutral position and press the Jog key.

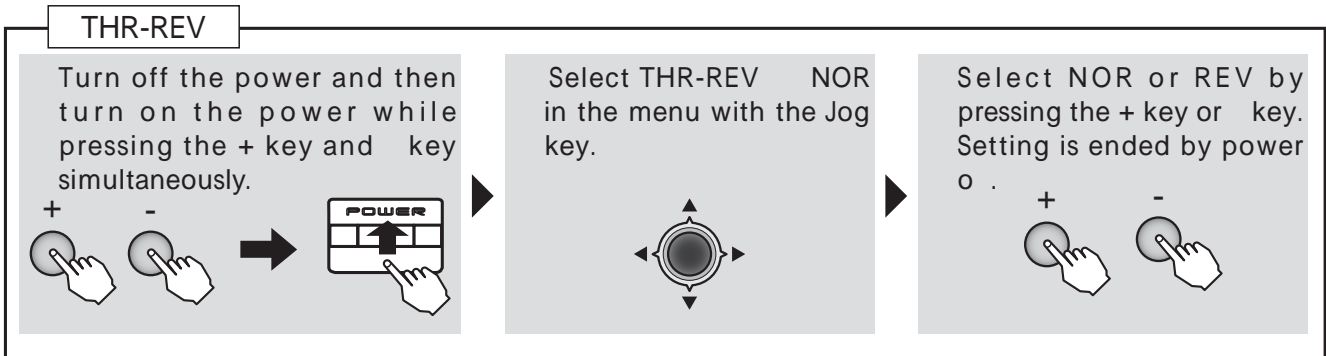




THR-REV

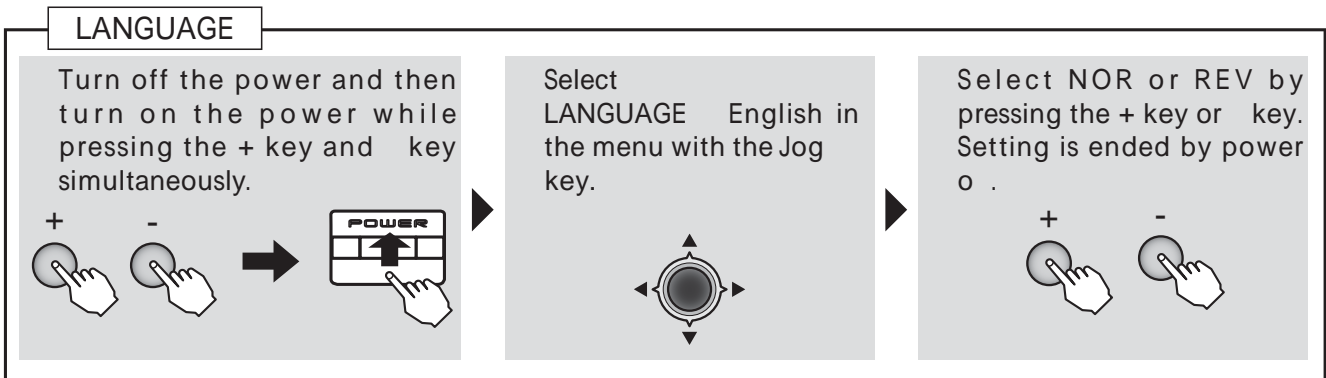
This function is not used. When you want to use full throttle with the throttle stick down and slow with the throttle stick up, select REV. When the stick is up, trim is effective and when the stick is down, trim is not effective.

*Throttle servo operation reversed by the linkage is usually performed by reverse in the normal menu. When throttle servo operation is reversed with the THR-REV function, trim becomes ineffective at slow.



LANGUAGE

The language displayed at proportional can be changed. The initial setting is English, but can be selected from among 7 languages.



Return from the transmitter setting screen to the normal menu by turning on the power without pressing a key.