# Futaba How to update T18SZ/T16SZ/FX-36

Your Futaba transmitter programming can be updated easily online. When functions are added or improved, the update file can be downloaded from our website. Copy the update files to the SD card and then use the following procedure to update the program. Check our web site for the FAQ regarding updating for more information.

#### **Updating procedure**

- **Note:** If the battery fully discharges during program updating, updating will fail. When the remaining battery capacity is 50% or less, always recharge the battery before updating.
- **Note:** The model data in the transmitter can be used unchanged after updating, but to be safe, back up the model data before updating.
- 1. Download the zip file of the update data from our website.



- 2. Extract the zip file on your computer.
- 3. The "FUTABA" folder will be created on your computer.
- 4. Copy the "FUTABA" folder into your SD card.



**Note:** If the SD card has already had "another FUTABA" folder before you make a copy, the "FUTABA" folder is OVERWRITTEN.

5. Insert the SD card with "FUTABA" folder that contained the update software into the SD card slot on your transmitter.



6. Turn on the transmitter power while pressing down the "HOME/EXIT" button. The update screen appears on the LCD display of your transmitter and the software update is started.



For FX-36



6. Turn on the transmitter power while pressing down the "H/E" button. The update screen appears on the LCD display of your transmitter and the software update is started.



7. When the software update is completed, "Completed" message is shown on the LCD display of your transmitter. (Show below picture.)



8. Turn off the power switch of your transmitter and remove the SD card from the card slot.

# **Possible Problems**

When one of the error messages shown below appears on the LCD screen your transmitter, the software update will not be completed.

#### "Low battery."

Software update is postponed because of low battery. Retry the software update after the battery is recharged.

#### "Update file not found."

The transmitter cannot find the update file on the SD card. Check to be sure all the update files have been copied onto the SD card.

#### "Broken file."

The transmitter detects the update file error. The update file may be broken or for another transmitter.

#### "Write error."

The software update procedure is stopped for an unknown reason. Contact your local service center when this error message appears on the LCD screen of your transmitter.



Don't absolutely remove the battery and the SD card from the transmitter during the update.

There is a possibility that the transmitter will be damaged.

Recovering a failed update

If you failed to update for any reason, it may transmitter will not start.

In that case, please update again transmitter in the following procedure.

- 1. Detach the battery from the transmitter.
- 2. Insert the SD card that contained the update files to the transmitter.
- 3. Attach the battery to the transmitter while pressing down the "HOME/EXIT" button.
- 4. The update will start.
- Even after the above steps, if the transmitter fails to update or does not start, please have it serviced.





This software updates or alters the functions and features noted below. The instructions and information that follow are meant as a supplement to the original instruction manual that accompanied the T185Z transmitter. Please refer to the original instruction manual where applicable, but replace the steps indicated below with these instructions. Please check to ensure that the update has been installed. 1) Select the System Menu.

2) Touch the [Information] button.

3) Confirm that the information in the display indicates the version numbers as noted above.

#### 1. Telemetry settings: Added gear ratio setting button to Kontronik ESC and Scorpion ESC.



#### 2. Telemetry settings: Changed the motor pole number setting for each ESC to "100".

Previously, the number of poles was up to 36, but now it can be set up to 100.







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2) Touch the [Information] button.

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#### 1. O.S.ENGINE EM-100 New firmware Version 9.11 support.

If you have used the EM-100, the update will unregister the EM-100 from the "Sensor" screen. Register the EM-100 again on the "Sensor" screen.



1. Fixed telemetry voice for Futaba ESC and Hobbywing ESC.



#### 1. Compatible with Futaba ESC MC-980H/A, MC-9130H/A, MC-9200H/A

Supports the telemetry function of MC-980H/A, MC-9130H/A, and MC-9200H/A.

• Register the ESC with transmitter.

**Registration to transmitter** 

A

◆ Alternatively, select [Futaba ESC] in start slot 24.



Call page 3 of [Sensor].



\*Please note that the proper default slot for this accessory is number 8 (8-15). This sensor uses eight slots. Being made to a start slot are 8, 16, and 24. Information on how to change the slot assignment is included in the transmitter's manual.

◆ The registered ESC will be displayed as "Futaba ESC".

The registered Hobbywing ESC is displayed as "Hobbywing ESC".

For details on Hobbywing ESC telemetry support, refer to the Hobbywing website.



#### 2. Hobbywing ESC telemetry compatible

Supports the telemetry function installed in some Hobbywing ESCs.

◆ The registered ESC is displayed as "Hobbywing ESC".

For details on Hobbywing ESC telemetry support, refer to the Hobbywing website.

#### 3. Compatible with SCORPION ESC telemetry

Added support for SCORPION POWER SYSTEM ESC some models.



V3.12

This software updates or alters the functions and features noted below. The instructions and information that follow are meant as a supplement to the original instruction manual that accompanied the transmitter. Please refer to the original instruction manual where applicable, but replace the steps indicated below with these instructions. Please check to ensure that the update has been installed.

Select the System Menu.
 Touch the [Information] button.

3) Confirm that the information in the display indicates the version numbers as noted above.

## **1. Fixed defect**

Fixed a problem that could not be linked with R3206SBM.

# 1. Fixed defect

Fixed a problem that telemetry reception time.

# V3.10

V3.11

# **1. Add O.S.ENGINE EM-100 Telemetry function**

# **FASSTest, T-FHSS**

Supports EM-100 firmware version Ver.8.00 or later.

V3.9 Market Model ID function, you must re-link existing FASSTest or T-FHSS receivers in your current models.

## 1. Add Model ID

# FASSTest, T-FHSS

As an added level of safety in the form of Model ID, which will prevent the accidental control of a model when using a different model data by preventing link.



#### Link is required when a new model is made from a model selection.



• In the system types (FASSTest, T-FHSS) compatible with the model ID function, a unique ID number (model ID) is set to each model data. Linking with a receiver stores the model ID of the model data in that receiver. The receiver operates only when it receives radio waves transmitted using model data that matches the stored model ID. As a result, the receiver does not operate even if model data of an unintended setting is used by mistake, so it is possible to prevent a malfunction due to a model selection mistake.

- If you want to use different model data from the model data that you have been using, link again.
- Model ID feature is enabled only if the system type is FASSTest or T-FHSS. Please note that model ID function can not be used on other systems.
- For safety reasons, model ID function can not be disabled.
- Model ID is automatically set when copying or adding model data.



## 2. Improved model copy function

Conventionally, only the model data currently active can be copied. In version 3.9, you can copy any model data.



# V3.8

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- 2) Touch the [Information] button.
- 3) Confirm that the information in the display indicates the version numbers as noted above.

#### 1. Telemetry sensor assignment

Third-party telemetry sensor JetCat V10 can be assigned from slot 1. This allows JetCat V10 and PowerBox to be used simultaneously.



**1. Fixed defect** Fixed a problem that an AFR rate of conditions 2 to 4 ("Gasvorw. 1" to "Gasvorw. 3") cannot be set properly when the language mode is set to German and model type of a model data is Helicopter.



## 1. Compatibility of model data created with T18SZ 70th anniversary model

It is necessary to update software to Ver.3.6 or later in order to use model data created with the T18SZ 70th anniversary model.

\* There are no difference in functions between the 70th anniversary model and standard model.

\*Airspeed sensor must be installed in the

V3.5

## **1. Telemetry Airspeed sensor function**

The T18SZ/T16SZ/FX-36 has been made compatible with the telemetry airspeed sensor.

#### • Airspeed sensor is registered with the transmitter.





◆ How to display the Airspeed sensor screen.



- ① Connect the sensor to the transmitter as shown in the figure.
- ② [Linkage menu] → [Sensor] → [Page 3/3] is opened from the transmitter.
- 3 Tap [Register]

aircraft.

(4) Complete registration and remove sensor from the transmitter.



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# 2. CRSF Protocol for TBS

The T18SZ/T16SZ/FX-36 has been made compatible with the CRSF (TBS) protocol.

- Bidirectional communication function of CRSF is not supported.
- [Linkage menu] → [System Type] → [Page 2/2] is opened from the transmitter.



② Tap the "CRSF" button to [ON]. A signal conforming to the CRSF standard is output from the S.BUS setting connector (S.I/F) of the transmitter. Futaba is not responsible for damage sustained by combination with parts other than Futaba Genuine equipment.

When using CRSF, the S.BUS servo setting function and [Reload] [Register] [Change slot] functions cannot be used. When setting S.BUS servo and sensor, set CRSF to INH.





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1) Select the System Menu.

2) Touch the [Information] button.

3) Confirm that the information in the display indicates the version numbers as noted above.

#### 1. Fixed defect

- Fixed a problem that the power switch may not operate when the timer alarm is set to [Constant] mode.
- Fixed a problem that the position of the stick switch is not displayed correctly on the AFR. (FX-36 only)
- Fixed a problem that the power switch may not operate depending on the position of the trim dial. (FX-36 only)

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# **T18SZ SOFTWARE UPDATE CHANGES**

V3.2 alters the functions and features noted below. The instructions and information th nstruction manual that accompanied the T18SZ/T16SZ/FX-36 transmitter. Please refer

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1) Select the System Menu.

2) Touch the [Information] button.

3) Confirm that the information in the display indicates the version numbers as noted above.

# 1. Change of the trainer connector power supply specification

The update enables the trainer connector to supply power to external equipment connected to the trainer connector, when turning on the power by pressing the power switch in the trainer student mode.



When connecting Futaba transmitters to the trainer cord, do not operate the power switch on the student side transmitter and operate the power switch on the teacher side transmitter as before. The student side transmitter turns power automatically in conjunction with the teacher side.

#### 2. Telemetry sensor made by O.S.ENGINES MFG.

It corresponds to O.S. EM-100 flight controller (under development). For details, please refer to the instruction manual of EM-100.

\*The EM-100 is not handled at Futaba.

#### 3. Fixed defect

- The count value of the integration timer has been corrected.
- Fixed the behavior of Ailevator.
- Fixed a problem that the power switch infrequently does not work.



Telemetrv

# **T18SZ SOFTWARE UPDATE CHANGES**

V3.1

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- 2) Touch the [Information] button.
- 3) Confirm that the information in the display indicates the version numbers as noted above.

#### 1. Telemetry display (The extension of the number of telemetry data which is shown)

The number of telemetry data shown on the Telemetry display screen is extended. It is 16 items (4 pages) maximum.

1/4



For some sensor types, you can choose the display item. Tap to select.

Telemetry	NEW1-1 Condit.1	6.6V
Battery		
Ext. battery		

#### 2. Timer Alarm

Added a setting to continue the alarm after the alarm set time.



#### 3. Model select

Model data of FX-32 can be used.

#### 4. Data Converter

FX-30 and T12FG have been added to the data converter compatible models.

The transmitter name is displayed on icon.

Data converter	1/1
T1145G MODEL-01-1	
FX-B0 MODEL 1	
FX-22 NEW1	Convert

## 5. Butterfly Elevator setting (Glider)

Added fine tuning function to butterfly elevator setting.

Butt Mixing r	erfly	NEW Condit.	1	6.8V	2/2	
AIL3 +0	AIL +0	AIL2 +0	AIL4 +0	ABK	Mode	
+0	+0	+0	+0	+0	A	
- Elevator	r setting – Rate 1	ELE +0	ELE2 +0	Fine tuning	RD	
Cuive	Rate 2	+0	+0	Rate (+0) +20	Mode LIN.	

\*If the type selected is flying wing, the Elevator setting will not appear.



#### Sensor type selection screen

You can choose which type of sensor to display. Tap the sensor type.

![](_page_11_Figure_27.jpeg)

If you do not want to display telemetry data on the telemetry monitor screen, select "---".

## 6. Butterfly mixing mode (Glider)

The operation of Butterfly mixing was changed

tion of butterny mixing was changed.								
Butterfly	NEW Condit.	1	6.8V	2/2				
<ul> <li>Mixing rate —</li> <li>AIL3 AI</li> </ul>	L AIL2	AIL4		]				
+0 +0	0 +0	+0						
FLP3 FL/	AP FLP2	FLP4	ABK	Mode				
+0 +1	0 +0	+0	+0	А				
<ul> <li>Elevator setti</li> </ul>	ing ELE	ELE2	– Fine tuning	2				
Mode A, mode B selection added.								

Mode A

(Normal)

• The butterfly operation direction is reversed at the neutral position (50%) of the throttle stick.

![](_page_12_Figure_6.jpeg)

At offset 70

![](_page_12_Figure_8.jpeg)

The direction of butterfly motion is reversed.

#### • Mode B

- (Throttle stick full stroke MODE)
- It does not reverse at the neutral position, so you can set the butterfly operation start point with the full stroke of the throttle stick.

At offset 20

![](_page_12_Figure_14.jpeg)

At offset 70

Bu	tterf	ly	NEV Con	V dit.1	6.8	/	
+150 P	os.	-41	Rate	+0			
. 400					Point		Separ.
+100					Offset		
+50					0.0		Add
+0		/	•		Position	Ra	ate
-50	- /				0.0		
-100							
-150					←		$\rightarrow$
-							

The direction of butterfly motion is not reversed.

# 7. Butterfly Differential rate (Glider)

The operation of Butterfly Differential rate was changed.

- When Butterfly Differential rate is "+", Up rate is decreased and DOWN rate is increased.
- When Butterfly Differential rate is "-", the calculation method of UP/ DOWN and a direction become reversed.

# 8. Error correction for Failsafe screen

A fault that a fail-safe position indicator is not shown on the Failsafe screen in FASST-7ch mode has been fixed.

![](_page_13_Picture_0.jpeg)

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2) Touch the [Information] button.

3) Confirm that the information in the display indicates the version numbers as noted above.

## 1. Information (System menu)

Two pages of manual QR code and manufacturer information are added to the information.

![](_page_13_Figure_7.jpeg)

#### 2. Add INT (Integration) Timer (Linkage menu)

INT (integration) Timer is the function which changes progress of a timer according to the location of the throttle stick. When the throttle stick is raised for faster speed, the speed of the timer usually increases. With the throttle stick at mid-range speed, the timer speed decreases (to 50%). When the throttle is positioned at low end, the timer's progress stops. It's possible to set it in the time which fits the power consumption of your aircraft.

\*The consumption of the battery/fuel is different depending on the conditions, so use an INT Timer as reference.

 $\ensuremath{^*\text{The INT}}$  (integration) time is different from the actual elapsed time.

![](_page_13_Figure_12.jpeg)

Start switch

Stop switch

TH% INT (Integration) Timer

Inhibit

OFF

Vibrator

#### 3. Add T14SG/FX-22 →T18SZ MODEL DATA CONVERSION

The model data (only latest version) of T14SG/FX-22 can be copied to T18SZ.

- \* SD card is required.
- \* The model data of T18SZ cannot be copied to T14SG/FX-22.
- \* Functions in T14SG/FX-22, functions not in T18SZ are not converted.

[Model data conversion method]

- 1. Attach an SD card that contains model data of T14SG or FX-22 to the SD slot of a T18SZ.
- 2. Turn on the power switch, and the Data Converter should run.

![](_page_14_Picture_8.jpeg)

- The converter shows a list of model data in the card. Select a model data that you want to convert and push "CONVERT" → "Yes" key, and the converter should begin converting data.
- 4. If the conversion succeeds, the converter will show the following message. The converted data are copied to the internal memory of the T18SZ. Hence, if the T18SZ does not have available space in its internal memory, conversions must fail.

![](_page_14_Picture_11.jpeg)

5. The converter can accept model data made by T14SG or FX-22 with the latest software only. If you try to convert model data made by old version

#### 4. Trim screen display name change (linkage menu)

It changed with T1 - T6 setting → Trim setting. Also the display name of T1 - T6 of data reset was changed to Trim.

\*There is no change in function or setting method.

5. Add Language Traditional Chinese, Simplified Chinese (System menu-Information)

software, the converter must fail to convert and show the following error message. If this message is shown, do the following procedure to update the model data in order to avoid this limitation.

![](_page_14_Picture_18.jpeg)

(a) First, update a T14SG or FX-22 to the latest software.

(b) Load the model data which failed to convert into the T14SG or FX-22 with the latest software, and the model data should be updated to the latest format.

(c) Save the updated model data to an SD card.

(d) Retry to convert the updated model data on a T18SZ.

\*When an SD card cannot be recognized, it may still be usable if reformatted. Download the SD formatter from the SD Association.

https://www.sdcard.org/ (As of June, 2017)

# **ACAUTION**

After finishing data copy, be sure to perform a complete check of operation with the model to be used.

Check well all the directions of operation and all the operation switches.

Important: Always check the operation of the model prior to flight.

![](_page_14_Figure_29.jpeg)

![](_page_15_Picture_0.jpeg)

# V2.1

This software updates or alters the functions and features noted below. The instructions and information that follow are meant as a supplement to the original instruction manual that accompanied the T18SZ transmitter. Please refer to the original instruction manual where applicable, but replace the steps indicated below with these instructions. Please check to ensure that the update has been installed.

Select the System Menu.
 Touch the [Information] button.

3) Confirm that the information in the display indicates the version numbers as noted above.

### 1. The following faults about telemetry function have been fixed.

- 1. GPS data that a PowerBox measured are not displayed.
- 2. Several data that a JetCat V10 measured are not displayed.
- 3. The transmitter freezes at the screen to choose data type of JetCat V10 to show on the telemetry monitor screen from the Home screen when you tap the title button in the screen to choose data type.

![](_page_16_Picture_0.jpeg)

![](_page_16_Figure_2.jpeg)

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1) Select the System Menu.

2) Touch the [Information] button.

3) Confirm that the information in the display indicates the version numbers as noted above.

#### 1.Vario Melody Setting

Vario Melody Setting is added to the variometer of the Altitude Sensor and GPS sensor.

![](_page_16_Figure_9.jpeg)

![](_page_17_Figure_0.jpeg)

#### 2. Telemetry Alarm Duration and Repeat time

The repeat time and duration time for the telemetry alarm (buzzer, vibration and speech) can be set.

Tap the [Telemetry Setting] button in the Linkage menu to call the setup screen shown below.

![](_page_17_Figure_4.jpeg)

#### 3. French speech localization

French localization of telemetry speech function is available. If you would like to use the French speech function, update software of your T18SZ to the French version of the new software.

#### 4.Stick mode

Mode 3 and 4 have been added.

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# V1.5 - V1.9

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Select the System Menu.
 Touch the [Information] button.

3) Confirm that the information in the display indicates the version numbers as noted above.

# 1. Fault corrections : V1.9 (trainer)

A defect causing the trainer function to not work properly in S-FHSS mode has been fixed.

# 2. Fault corrections : V1.8 (setup screen with curve setting)

If you make a mixing setting that moves a master function to enormous travel, for example Programmable mixing whose master and slave are assigned to any same function, T18SZ restarts as you open a setup screen of a mixing that uses the master function.

## 3. Change of a sensor name : V1.8

"Kosmik ESC" has been changed to "Kontronik ESC".

## 4. Korean language : V1.7

Korean language is available. Choose "Korean" from Language select buttons in the Information screen.

# 5. Fault corrections : V1.6 (GPS Indication)

A problem of data from GPS units not being shown was determined on v1.5 software. V1.6 has corrected the issue.

## 6. Hysteresis-type and box-type can be selected in a hardware select screen.

When a stick, trim lever, or VR is used as a switch, the following 4 modes can be selected.

#### Linear • Hysteresis mode

This setting method selects function ON/OFF based on the set point. Hysteresis (dead band) can be set to ON and OFF. The ON and OFF positions can be reversed with the Reverse button.

![](_page_18_Figure_20.jpeg)

#### Linear • Box mode

This mode turns on the switch within a range of 2 points. Each point can be set. The ON and OFF positions can be reversed with the Reverse switch.

![](_page_18_Figure_23.jpeg)

#### Symmetry • Hysteresis mode

The operation is the same as the linear hysteresis mode, but left and right (up and down) operations are symmetrical about the neutral position. For example, when you want to switch DR1 with the aileron stick, when the stick is moved to the left or right, DR1 can be turned ON at the same left and right position.

![](_page_18_Figure_26.jpeg)

#### Symmetry • Box mode

The operation is the same as the linear box mode, but left and right (up and down) operation is symmetrical about the neutral position.

![](_page_18_Picture_29.jpeg)

#### When shifting the ON/OFF point

The ON/OFF and hysteresis (dead band) boundary point (there are 2 points: top and bottom) position can be shifted. ON/OFF is possible at a free position.

- Area Green : ON
- Area Red : OFF
- Area Yellow : Hysteresis (Dead band)

![](_page_19_Figure_5.jpeg)

#### [Setting method] → Linear Type

- 1. Move the stick to the off point you want to shift and touch the [OFF] button. The off points change.
- 2. Move the stick to the on point ' you want to shift and touch the [ON] button. The on points change.

![](_page_19_Figure_9.jpeg)

![](_page_19_Figure_10.jpeg)

![](_page_19_Figure_11.jpeg)

When Upper (Lower) is set, at the same time, Lower (Upper) is also set.

# 7. It corresponded to the following sensors.

Refer to the sensor instruction manual for more information.

- Kontronik ESC
- Castle TL0
- JetCat V10
- PowerBox

# Futaba.

# **T18SZ SOFTWARE UPDATE CHANGES**

![](_page_20_Picture_2.jpeg)

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2) Touch the [Information] button.

3) Confirm that the information in the display indicates the version numbers as noted above.

## 1. Curve setting operation

Point curves or spline curves of up to 11/17 points can be used. (Initial value: 11/9 points) **The set points can be freely increased,** decreased, and offset.

#### Point addition method

① Open the screen of a mixing curve with the curve function.

![](_page_20_Figure_10.jpeg)

![](_page_20_Figure_11.jpeg)

③ Tap the " ▼ ▼ " " ▼ " " ▲ " " ▲ ▲ " button and select the position (mark □ ) you want to add.

- ④ When the "Add" is tapped, the point is added. (□) → (■)
- \*A new point is created.
- ⑤ Press "Rate" and use the up/down arrows to adjust the rate points up or down.

![](_page_20_Figure_16.jpeg)

#### Point deletion method

① Use the move between points button [  $\leftarrow$  ] or [  $\rightarrow$  ]

→ and select the point. (The red

![](_page_20_Figure_20.jpeg)

- ② Tap the [Remove] button. (The selected point becomes an outlined point □ )
- 3 Use the move between points button [ ] or

![](_page_20_Figure_23.jpeg)

![](_page_21_Figure_0.jpeg)

## 3. SBS-01C current sensor function

The T18SZ has been made compatible with the SBS-01C current sensor. The SBS-01C has the capability of measuring current, voltage and capacity (consumption) from the drive battery at the same time.

\*Current sensor must be installed in the aircraft.

![](_page_21_Figure_4.jpeg)

#### SBS-01C is registered with a transmitter.

![](_page_21_Figure_6.jpeg)

- ① Connect the sensor to the T18SZ as shown in the figure above.
- ② [Linkage menu] → [Sensor] → [Page 3/3] is opened from the T18SZ.
- ③ Tap [Register]
- ④ Complete registration and remove SBS-01C from the transmitter.

### Calling of a current sensor screen.

① [Linkage menu]  $\rightarrow$  [Telemetry]

![](_page_22_Picture_2.jpeg)

![](_page_22_Figure_3.jpeg)

## 5. Stick mode

Addition of stick mode function.

Mode 2 or Mode 1 can be chosen.

But, it isn't changed until data is reset.

To change the mode the stick ratchet must be changed. Request that this be done by Futaba Service. (Charged modification)

![](_page_23_Figure_5.jpeg)

# ♦ System menu change

![](_page_23_Picture_7.jpeg)

## 6. Throttle stick position alarm

#### < Airplane/Glider >

When the old version makes the function of the throttle stick a motor, a throttle stick position alarm has not started.

When the new version makes the function of the throttle stick a motor, a throttle stick position alarm has started.

# 7. Name change on the model menu

#### < Airplane/Glider >

Model menu	Model1 Condit.1	6.4V	1/2
Servo monitor	Condition select	AFR	
Dual rate	Program. mixes	Aileron diff	erential
Flap setting	AIL → Camber flap	AIL → Bral	ke flap
Aileron → Rudder	Elevator → Camber	Camber m	nixing
Airbrake → ELE	Camber flap → ELE	Rudder → /	Aileron
Rudder → Elevator	Snap roll	Air bra	ike

## 8. Butterfly elevator curve function

#### < Glider >

When offsetting the butterfly operation reference point, operate to the point you want to change and then touch the Offset button. The reference point displays 0%. When [Yes] is touched, the reference point is changed. Then, "Initialize elevator curve?" appears, allowing you to confirm your setting.

![](_page_23_Figure_18.jpeg)

 The offset position is indicated by a red dotted line by an elevator curve.

![](_page_23_Figure_20.jpeg)

# 9. T-FHSS dual receiver function < T-FHSS >

The dual receiver function can't be used for T-FHSS. When T-FHSS is chosen, dual receiver function isn't shown on a system type screen.