

Zusatzanleitung für den Sender T12 FG / FX-30, Software-Update Version 1.5

Hinweis!

Die Software-Versionen 1.2 oder höher sind nicht abwärtskompatibel zu den Versionen 1.1 oder früher. Da die Software der Anlage aufwärtskompatibel ist, können Modelldaten welche mit früheren Softwareversionen erstellt wurden auch von der neuen Softwareversion gelesen werden.

Verlängerung der Reichweitentestzeit

REICHW.-TEST (7.50) 1/1
RW-TESTMODUS AKTIV !!!!
 TESTZEIT = 90SEK ODER EXIT = NORMAL-POWER
79 **RESTART** **EXIT**

REICHW.-TEST (7.70) 1/1
 TESTZEIT = 90SEK ODER EXIT = NORMAL-POWER
79 **RESTART** **EXIT**

Um den RW-Testmodus zu verlängern, die „Restart“-Taste während der ablaufenden 90 Sekunden drücken, was einen Neustart bewirkt

Multiprop Funktion

BASIS MENÜ (7.50) 2/3
ENDPUNKT-ATV **TAUMELSCHLEIBE**
MOTOR-AUS **STOPPUHR**
LEERLAUF 2 **TRIMMERANZEIG**
TAUMEL-RING **MULTIPROP**
 FZS HOLD IST **AUS**

MULTIPROP (7.50) 1/2
 GEBER POL ++ ⊕ ⊖ ++
MP1 KA1 -- **NORM** **100%** **100%**
 KA2 -- **NORM** **100%** **100%**
KA 1 KA3 -- **NORM** **100%** **100%**
 KA4 -- **NORM** **100%** **100%**
 RESET: EDIT DRÜCKEN 1SEC

Im Basismenü ist jetzt ein Multiprop System integriert. Zwei Proportionalkanäle können damit auf je 8 Propkanäle erweitert werden. Zur Decodierung ist Empfängerseitig ist pro Kanal der Einsatz eines

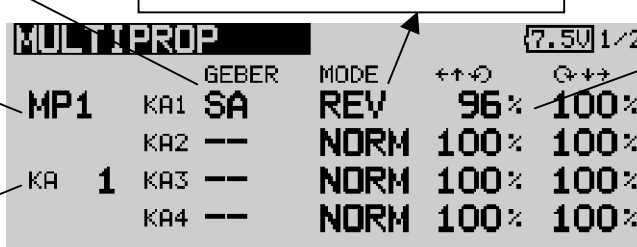
Multi-Prop-Decoders MPDX-1 (No. F 1400) erforderlich. Die Gesamt-Kanalzahl wird damit auf 10 Prop, 2 Schalt und 16 Multiprop-Kanäle erhöht. Die Multi-Propkanäle stehen auch beim Einsatz des 2,4 GHZ Moduls zur Verfügung.

Für Kanal 1-8 einen Geber zuordnen

Multiprop System 1 oder 2 auswählen

Empfänger - Ausgangskanal zuordnen

Gegebenenfalls die Servo-Laufrichtung durch Umpolung (REV) korrigieren



MULTIPROP (7.50) 1/2
 GEBER MODE ++ ⊕ ⊖ ++
MP1 KA1 **SA** **REV** **96%** **100%**
 KA2 -- **NORM** **100%** **100%**
KA 1 KA3 -- **NORM** **100%** **100%**
 KA4 -- **NORM** **100%** **100%**

Servowege einstellen

Gaslimiter

MODELL MENÜ **NORMAL** (7.50) 1/2
SERVO MONITOR **PROGR-MIXER**
FLUGZUSTAND **PITCH KURVE**
GEBER AFR **GAS KURVE**
DUAL RATE **BESCHLEUNIG**
 FZS HOLD IST **AUS**

GAS KURVE **NORMAL** (7.50) 4/4
 GAS-LIMITER AFR
 ACT/INA MODE SCHALT
EIN **SEPARAT SF**
 MAX MIN GEBER
70% **30%** **LS**
 POS +48.5 RATE +74.0

Auf Seite 4 von 4 im Menü „Gaskurve“ ist es nun möglich, eine Begrenzung der Gas-Funktion einzugeben. Um beispielsweise die Gasfunktion zu blockieren, während man den Hubschrauber transportiert oder um Einstellkorrekturen vorzunehmen. Mit MAX und MIN werden die Endpunkte eingestellt.

Über einen separaten Geber (z.B. Linearschieber) wird die Gas-Limiter - Position eingestellt. Steuert man nun die Gasfunktion, so bleibt das Gasservo an der vorgegebenen Position stehen. Die Pitchfunktion dagegen bleibt steuerbar. Bitte GLOBAL und SEPARAT Einstellung beachten.

Freie Benennung der Zusatzfunktionen

<p>FUNKTIONSNAMEN (7.50) 1/2</p> <p>1 ZUSATZ 1 ZU1 10 ZEICHEN ZUSATZ 1</p> <p>2 ZUSATZ 2 ZU2</p> <p>3 ZUSATZ 3 ZU3 VORGABE ZUSATZ 1</p> <p>4 ZUSATZ 4 ZU4</p>	<p>FUNKTIONSNAMEN (7.50) 1/1</p> <p>NAMNEU 10 ZEICHEN ZUSATZ 1</p> <p>RESET VORGABE ZUSATZ 1</p>
<p>Dazu im Basismenü das Menü „Funktionsname“ aufrufen. Eine Funktion wählen, hier im Beispiel Zusatz 1.</p>	<p>„NAMNEU“ auswählen</p>

<p>FUNKTIONSNAMEN (7.50) 1/3</p> <p>ZUSATZ 1</p> <p>USATZ 1 10 ZEICHEN ZUSATZ 1</p> <p>ZURÜCK ENTER LÖSCHN</p> <p>← →</p> <p>ABCDEFGHIJ KLMNOPQRST UVWXYZabcd efghijklmn opqrstuvwxyz !"#\$%&'</p>	<p>FUNKTIONSNAMEN (7.50) 2/3</p> <p>ZUSATZ 1</p> <p>KUPPLUNG 10 ZEICHEN ZUSATZ 1</p> <p>ZURÜCK ENTER LÖSCHN</p> <p>← →</p> <p>0123456789 .,:;+~* / ^ _ <>=?@[] ^ _ . ¥ `çüéäääääç èèèiîiîÄÄÉæ ÆöôôôûûüöÜß</p>
<p>Zunächst alte Bezeichnung Löschen, danach einen eigenen, maximal 10-stelligen Namen eingeben und mit Enter bestätigen.</p>	<p>Das Untermenü wird verlassen indem man mit dem 3-Hotkey durch Drehen die Überschrift FUNKTIONSNAMEN markiert und die EDIT Taste drückt.</p>

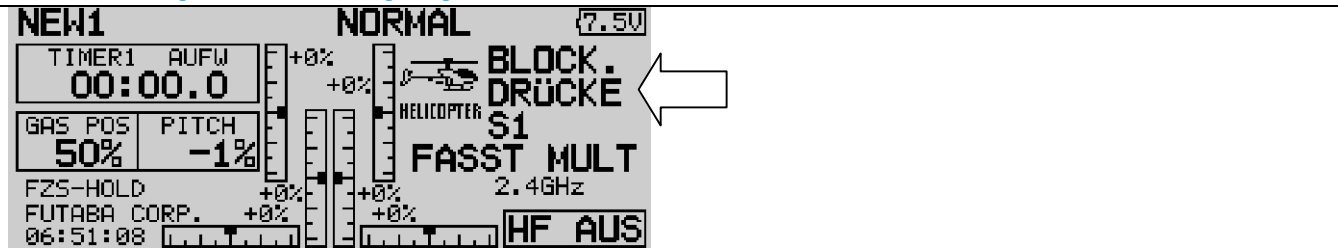
<p>FUNKTIONSNAMEN (7.50) 1/2</p> <p>1 KUPPLUNG ZU1 4 ZEICHEN ZU1</p> <p>2 ZUSATZ 2 ZU2</p> <p>3 ZUSATZ 3 ZU3 VORGABE ZU1</p> <p>4 ZUSATZ 4 ZU4</p>	<p>FUNKTIONSNAMEN (7.50) 1/1</p> <p>NAMNEU 4 ZEICHEN ZU1</p> <p>RESET VORGABE ZU1</p>
<p>Für alle geänderten Funktionen muss noch zusätzlich eine 4-stellige Variante eingegeben werden, da die Anzeige in den</p>	<p>diversen Menüs unterschiedliche Zeichenzahlen besitzen.</p>

<p>FUNKTIONSNAMEN (7.50) 1/2</p> <p>1 KUPPLUNG KUP 4 ZEICHEN KUP</p> <p>2 ZUSATZ 2 ZU2</p> <p>3 ZUSATZ 3 ZU3 VORGABE ZU1</p> <p>4 ZUSATZ 4 ZU4</p>	
<p>Im Servo Monitor Menü werden die ersten 3 Buchstaben angezeigt.</p>	

Trimmwertanzeige in „%“

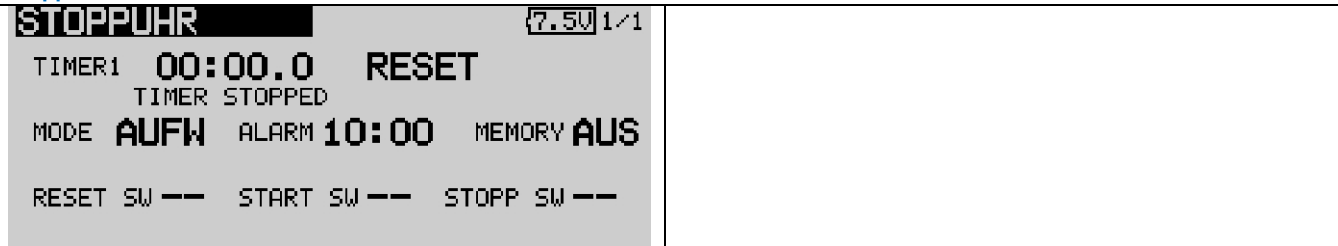
<p>TRIMMERANZEIG NORMAL (7.50) 1/1</p> <p>STEP MODE STEP MODE</p> <p>T1 4 SEPA T4 4 SEPA</p> <p>T2 4 SEPA T5 4 SEPA</p> <p>T3 4 SEPA T6 4 SEPA</p> <p>TRIM UNIT %</p>	<p>NEW3 NORMAL (7.50)</p> <p>TIMER1 AUFW +0% 00:00.0</p> <p>GAS POS PITCH +0% 74% +48%</p> <p>FZS-HOLD +0% 00:36:22</p> <p>FUTABA CORP. +0%</p> <p>HELICOPTER +0% SYSTEM BASIS MODELL FASST MULT 2.4GHz HF AUS</p>
<p>Die Trimmwertanzeige ist nun umstellbar auf die Anzeige des Prozentwertes „%“.</p>	<p>Anzeige ebenfalls im Startdisplay.</p>

Geänderte Anzeige der Tasten-Verriegelung



Die blinkende Anzeige der Tastenverriegelung wurde durch eine permanente Textmeldung ersetzt.

Stoppuhr wahlweise mit oder ohne Reset



Im Menü „Stoppuhr“ kann nun eine Memory-Funktion aktiviert werden, welche die Uhr bei einem Neustart nicht zurücksetzt.

Automatische Optimierung und Konfiguration der Empfängerausgänge




Bei Modellwechsel kann die Kanalreihenfolge durch Auswahl des Buttons „Nein“ beibehalten, oder durch „Ja“ entsprechend der

ausgewählten Modulationsart auf den Vorgabewert zurückgesetzt werden.

T12FG/FX-30 Software Update Function Modification Contents

(Version:1.5)

CAUTION

 To cope with 2.4GHz systems, when the software is updated to this version, the model data is converted to the new model. If the system is used by copying the transmitter model data of software version 1.3 and later versions to a transmitter of an older version, it will not operate normally. Always upgrade the copy destination transmitter to version 1.3 or a later version.

If the model data of a transmitter older than version 1.3 is copied to a version 1.3 or later version transmitter, the system will operate normally because the data is automatically converted by the copy destination transmitter.

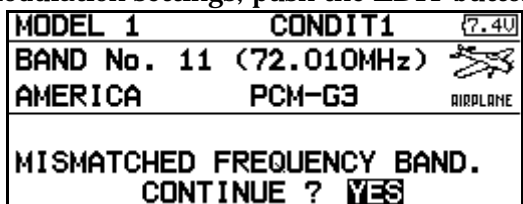
Changing the RF Modulation

The T12FG and FX-30 transmitter is compatible with Futaba's TM-14 Module FASST 2.4GHz system.

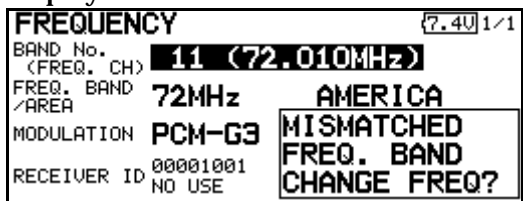
- When switching from the existing MZ-FM or FX-FM module to the TM-14, the TM-14 to the MZ-FM or the FX-FM module, or similar situation, it is necessary to reset the band accordingly.
- When using the TM-14 and Futaba FASST receiver, it is necessary to link the transmitter module to the respective receiver prior to using them for the first time. This process will only be necessary the first time that these items are used. The unique identification code will be stored in the receiver.
- When using the TM-14 FASST system, the DSC function has been disabled as it is unnecessary. Futaba's FASST system will prevent any RF interference issues which might have arisen in the previous RF modulation.
- The multiprop function cannot be used.

How to Set the Band

1. With the transmitter's power OFF, remove the existing RF module and replace it with the TM-14 module.
2. Turn ON the transmitter's power switch. Since the RF module was replaced by an RF module that varies from the previous settings, an on-screen warning is displayed. To change the modulation settings, push the EDIT button.



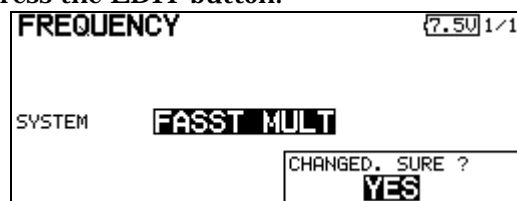
3. In the linkage menu, select the frequency setting [FREQUENCY], and push the EDIT button. A message confirming the band change is displayed. Press the EDIT button once again.




- Please note
This will automatically select Futaba's FASST MULT setting. If, however, you are using a receiver which employs the FASST 7-Channel

settings, please see the section entitled Channel Mode Selection which follows.

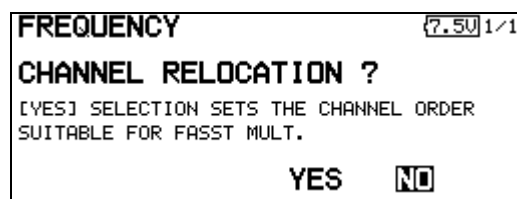
4. A channel mode selection screen is displayed. Press the EDIT button.



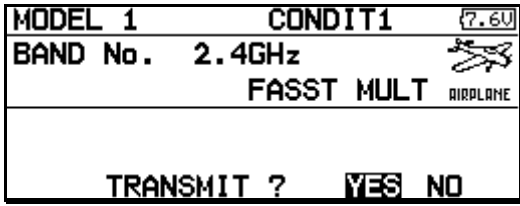
5. A function channel relocation confirmation screen is displayed. When the [YES] is selected and the EDIT button is pressed, the function channel assignment changes to the optimum setting in the FASST system. When the [NO] is selected and the EDIT button is pressed, the setting does not change.

 After the channel assignment has been changed, always change the receiver connections.

- In the FASST system, the optimum channel assignment and optimum setting in the conventional modulation mode are different.



6. The band setting changes accordingly to reflect the selection of the 2.4GHz band. The display will return to the frequency confirmation screen.



Range Check Mode Operation

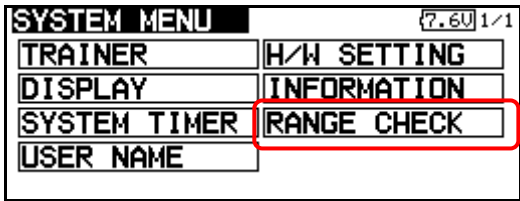
The 'range check mode' reduces the transmission range of the radio waves to allow for a ground range check.

- The range check mode, when activated, will continue for 90 seconds unless the user exits this mode early.

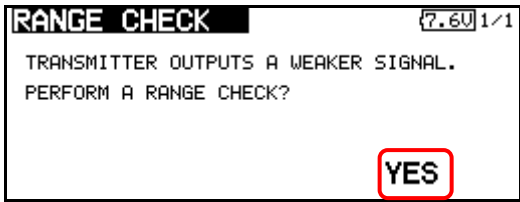
WARNING

- Do not fly in the range check mode.
- Since the range of the radio waves is short, if the model is too far from the transmitter, control will be lost and the model will crash.

1. Turn ON the transmitter's power switch. Select 'NO' on the frequency confirmation screen.
- For safety, the RANGE CHECK mode can not be selected while the RF transmission is active.
2. With the system menu selected press the EDIT button, choose the RANGE CHECK selection from the menu options and press the EDIT button.



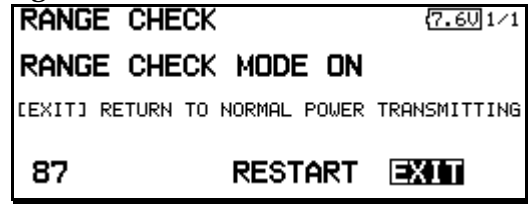
3. The RANGE CHECK screen is displayed. To activate the RANGE CHECK mode select 'YES' and then press the EDIT button. During the RANGE CHECK period, the RF power is reduced to allow the ground range tests to be performed.



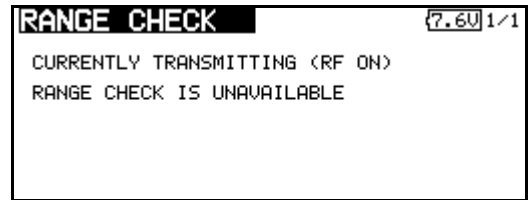
4. The RANGE CHECK mode is automatically reset after the 90 second time limit has expired. The remaining time is displayed on the left side of the transmitter's screen. Should you

complete the range check before the 90 seconds has passed, select [EXIT] and press the EDIT button.

- When the [RESTART] button is pressed, the range check mode timer is returned to 90.



- Please note, upon expiration of the 90 seconds, or when [EXIT] is selected and the EDIT button is pressed, the transmitter will automatically return to the normal RF operation as noted on the display.
5. When [EXIT] is selected and the EDIT button is pressed, the RANGE CHECK mode is reset and radio waves are transmitted in the normal mode.



- After the RANGE CHECK mode was reset, it cannot be selected again. To select the RANGE CHECK mode again, turn on the power switch and start from the beginning.

Channel Mode Selection

When using the TM-14 RF module with the transmitter, there are two modes of operation available: multi-channel mode (as utilized in conjunction with the R6014FS receiver) and 7-channel mode (used for receivers such as the R617FS). It is important to set the channel mode selection to match the receiver being utilized in the model. Please refer to the chart below as a reference guide.

Transmitter		Receiver		
		R606FS R616FFM	R607FS R617FS	R608FS R6014FS
TM-14 Module	Multi-ch mode			Okay
	7ch mode	Okay	Okay	

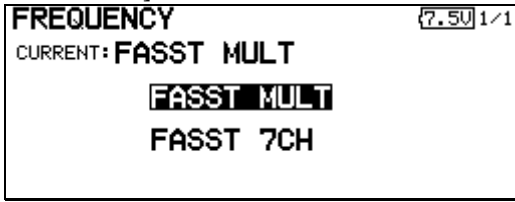
1. Access the frequency setting [FREQUENCY] in the linkage menu and then press the EDIT button. The currently selected transmission mode is displayed.



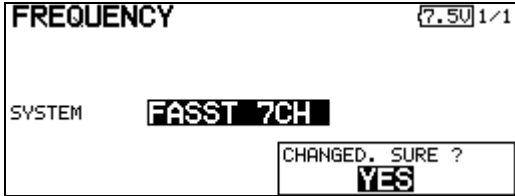
- To change the mode selection, select the alternate transmission mode.

[FASST MULT] : Multi channel mode

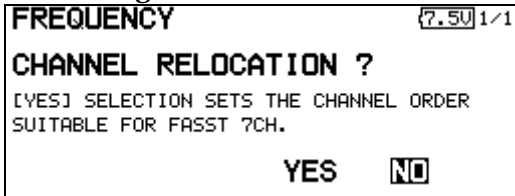
[FASST 7CH] : 7 channels mode



- Press the EDIT button. The display will return to the confirmation screen.



- A channel relocation screen will appear. If you wish to relocate the channel assignments, select the [YES]. If not, select [NO]. The channel assignments will not be modified.



(Information pertaining to the 7 channel mode)

When the 7 channel mode is selected, the following conditions are applicable:

- While the setting items of channels 8 and above may appear in the various menu options (e.g., sub trims, servo reverse, etc.), the only settings which are applicable are those of channels 1-7.
- When using the 7 channel mode, fail safe is only available for channel three (throttle). If/when the fail safe for channel three has been activated, the battery fail safe is also active. Unlike the multi channel mode, the fail safe and the battery fail safe can not be set independently.

Servo connection

Below is a reference chart which has been created to obtain the optimum performance from the FASST system in conjunction with the channel mode and various swash types. It is important to note and adhere to this reference information in order to achieve the maximum performance from the model. As such, please connect the servos to the corresponding channels in the chart below.

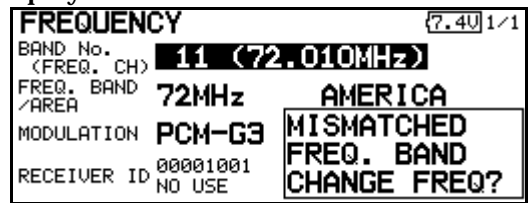
CH	Multi channel mode		7 channels mode	
	Except H-4, H4X	H-4,H4X	Except H-4, H4X	H-4,H4X
1	Aileron	Aileron	Aileron	Aileron
2	Elevator	Elevator	Elevator	Elevator
3	Pitch	Pitch	Throttle	Throttle
4	Rudder	Elevator2	Pitch	Pitch
5	Gyro	Rudder	Gyro	Gyro
6	Throttle	Throttle	Rudder	Rudder
7	Governor	Gyro	Governor	Elevator2
8	Governor2	Governor	AUX5	AUX5
9	Needle	Governor2	AUX4	AUX4
10	AUX3	Needle	AUX3	AUX3
11	AUX2	AUX2	AUX2	AUX2
12	AUX1	AUX1	AUX1	AUX1
VC1	AUX1	AUX1	AUX1	AUX1
VC2	AUX1	AUX1	AUX1	AUX1
VC3	AUX1	AUX1	AUX1	AUX1
VC4	AUX1	AUX1	AUX1	AUX1

- It is important to note that these settings differ from that used in the previous G3 receivers. Utilizing the channel assignments from the G3 receivers will not allow you to obtain the ideal performance from your model.
- Please note that the settings in the chart above are the default settings. As such, when the data is reset, the channel assignments above will be utilized.

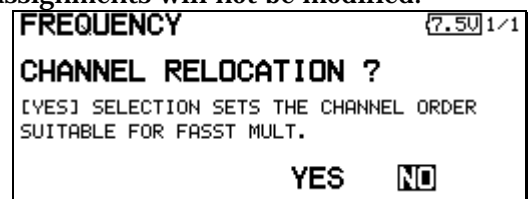
Automatic channel assignment

When using the TM-14 RF module, the transmitter channel assignment function allows the automatic relocation of the channels (servo output) to maximize performance of the FASST system.

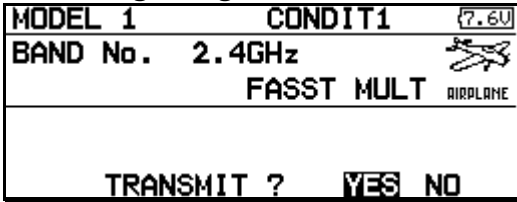
- Replace the RF module of the transmitter with the TM-14.
- Turn on the transmitter.
- Select LINKAGE menu.
- Select FREQUENCY menu.
- A band change confirmation message is displayed. Push the EDIT button.



- A CHANNEL RELOCATION message will appear. If you wish to relocate the channel assignments, select 'YES' and press the EDIT button. If not, select 'NO'. The channel assignments will not be modified.



- Band setting changes to 2.4GHz.



- The channel assignment is changed to suitable assignment of FASST.

Range Check the Radio

It is extremely important to range check your models prior to each flying session. This enables you to ensure that everything is functioning as it should and to obtain maximum enjoyment from your time flying. The TM-14 transmitter module incorporates a system that reduces its power output and allows you to perform such a range check.

- Turn on the transmitter and activate the 'RANGE CHECK' mode through the transmitter's System menu. Please note: if the RF is activated, the 'RANGE CHECK' mode will not be available to utilize. As such, do NOT activate the RF when the transmitter is turned ON.
- The LEDs on the rear of the TM-14 module will indicate that a radio frequency link has been established between the transmitter and receiver. This is noted by a solid green LED and a blinking red LED on the TM-14 module. The solid green LED indicates that the radio frequency link has been established. As indicated by the blinking red LED, the radio frequency power has been reduced to allow for the range check.
Note: the transmitter will remain in the RANGE CHECK mode for a maximum of 90 (ninety) seconds. This time limit has been established to ensure that the modeler not inadvertently forget to return to the standard power output when flying his/her model.
- Walk away from the model while simultaneously operating the controls. Have an assistant stand by the model to confirm that all controls are completely and correctly operational. You should be able to walk approximately 30-50 paces from the model without losing control.
- If everything operates correctly, return to the model. Set the transmitter in a safe, yet accessible, location so it will be within reach after starting the engine or motor. Be certain the throttle stick is in the low throttle position, then start the engine or motor. Perform another range

check with your assistant holding the aircraft with the engine running at various speeds. If the servos jitter or move inadvertently, there may be a problem. We would strongly suggest you do not fly until the source of the difficulty has been determined. Look for loose servo connections or binding pushrods. Also, be certain that the battery has been fully charged.

Antenna of TM-14

- As with all radio frequency transmissions, the strongest area of signal transmission is from the sides of the TM-14 transmitter module's antenna. As such, the antenna should not be pointed directly at the model. If your flying style creates this situation, easily move the antenna to correct this situation.
- Please do not grasp the transmitter's antenna during flight. Doing so may degrade the quality of the RF transmission to the model

TM-14 LED indication

- When the transmitter is powered up, the LEDs on the rear of the module will begin to glow or blink accordingly. The chart below provides you with an easy reference as to the meaning of the LEDs.

LED Indication

Green	Red	Status
Solid	Solid	Initializing
Blink	Off	RF is off
Alternate Blink		Check nearby RF condition
Solid	Off	RF power on
Solid	Blink	RF power on (Power reduced to perform the range check function)

R6014FS LED Indication

Green	Red	Status
Off	Solid	No signal received
Solid	Off	Signal received, normal operation
Blink	Off	Receiver is receiving signals but the ID is unmatched
Alternate Blink		Unrecoverable error (EEPROM, etc.)

Multiprop channel

The system has been made compatible with the Futaba MPDX-1 Multiprop Decoder. One channel can be expanded to 8 channels by using the MPDX-1 Multiprop Decoder. Up to two MPDX-1 can be used.

- The multiprop function cannot be used with a FASST modulation scheme.

Multiprop selection

1. Select the Linkage Menu multiprop setting [MULTIPROP] and press the EDIT dial.
2. The MULTIPROP setup screen is displayed.

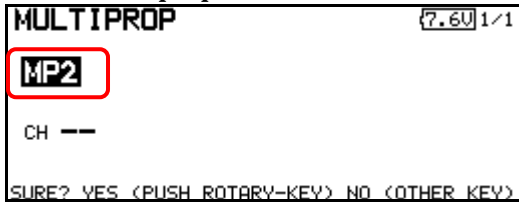


3. Select [MP1] and press the EDIT dial.
4. Turn the dial and switch the display to [MP1] or [MP2].

The display blinks.

[MP1] : Multiprop 1

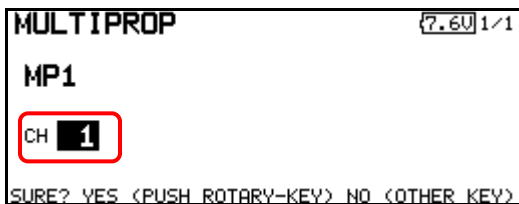
[MP2] : Multiprop 2



5. Press the EDIT dial.

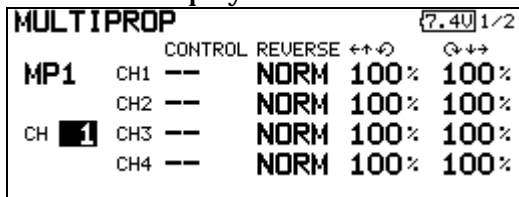
Channel setting

1. Select [CH] and press the EDIT dial. Turn the EDIT dial and display the channel to which the MPDX-1 is connected.



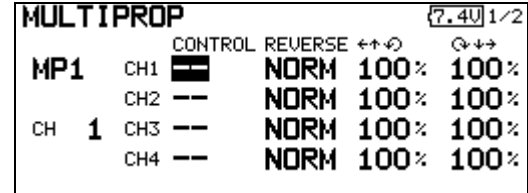
- To turn off the multiprop function, set [--] at CH.

2. When the activated channel is selected and the EDIT dial is pressed, the multiprop setting contents are displayed.



Control setting

1. Select the "CONTROL" row of the multiprop channel whose control you want to set and press the EDIT dial.



2. A hardware selection screen is displayed. Select the hardware which is to set control and press the EDIT dial.

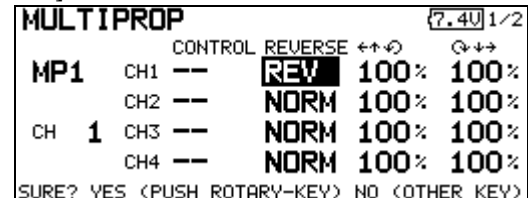
Servo reverse setting

1. Select the "REVERSE" row of the multiprop channel which is to be reversed and press the EDIT dial.
2. Turn the dial and switch the display to [NORM] or [REV].

The display blinks.

[NORM] : Normal mode

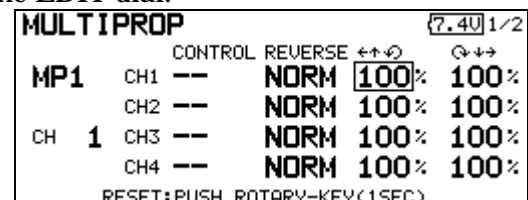
[REV] : Reverse mode



3. Press the EDIT dial.

End Point Setting

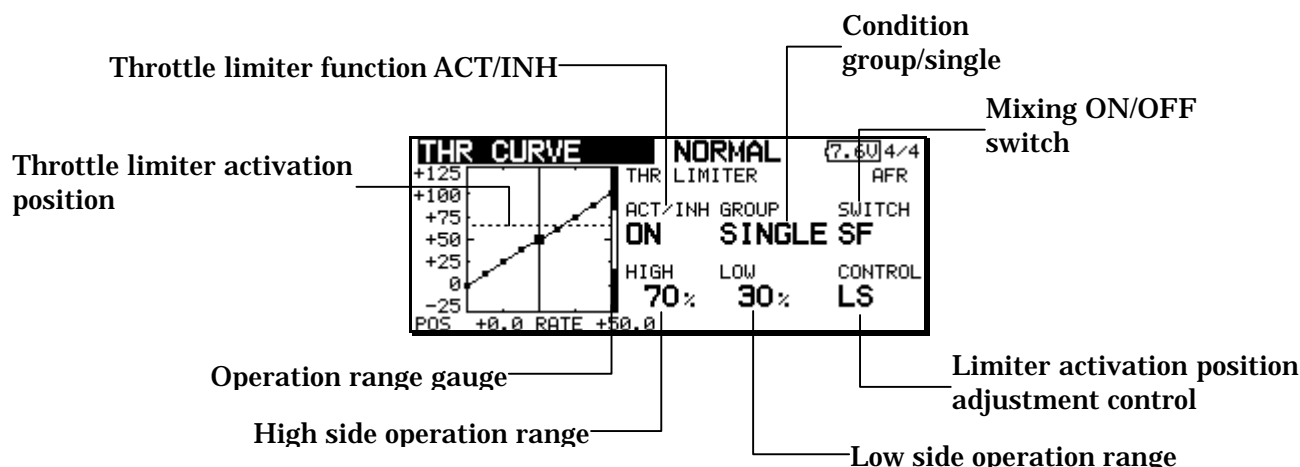
1. Select the " " row or " " row of the multiprop channel whose end point is to be set and switch to the data input mode by pressing the EDIT dial.



2. Adjust the end point by turning the EDIT dial.
Initial value : 100%
Adjustment range : 30 ~ 100%
3. After adjustment, press the EDIT dial.

Throttle limiter

This function limits throttle operation to within a certain range. Control which adjusts the operating range during flight can be set. (Effective only when the model type is helicopter.)



Setting method

1. Open the THR CURVE setup screen. Move the cursor and display page 4.

- Activate the function.

1. Select "ACT/INH" and press the EDIT dial.
2. Turn the dial and switch the display to [INH] or [ACT].
The display blinks.
[INH] : Inhibit
[ACT] : Activate
3. Press the EDIT dial.

- Group/single mode selection

1. Select "GROUP" and press the EDIT dial.
2. Turn the dial and switch the display to [GROUP] or [SINGLE].
The display blinks.
[GROUP] : Condition group mode
[SINGLE] : Condition single mode
3. Press the EDIT dial.

- ON/OFF switch setting

1. Select "SWITCH" and press the EDIT key.
2. A hardware selection screen is displayed. Select the hardware and press the EDIT dial.

- High side operation range setting

1. Select "HIGH" and press the EDIT dial.
2. Turn the dial and adjust the high side operation range.
A gauge is displayed at the right-hand side of the graph.
3. Press the EDIT dial.

- Low side operation range setting

1. Select "LOW" and press the EDIT dial.
2. Turn the dial and adjust the low side operation range.
A gauge is displayed at the right-hand side of the graph.
3. Press the EDIT dial.

- Limiter activation position adjustment control setting

1. Select "CONTROL" and press the EDIT dial.
2. A hardware selection screen is displayed. Select the hardware and press the EDIT dial.
The throttle limiter activation position is indicated by a dotted line on the graph.

- When the limiter operation range adjustment control is NULL, the throttle limiter function is not activated.

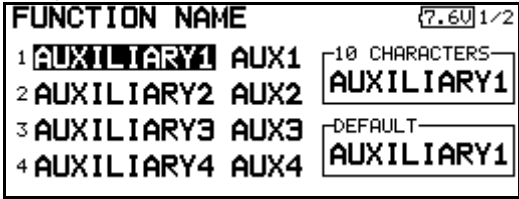
Other modifications

Function name

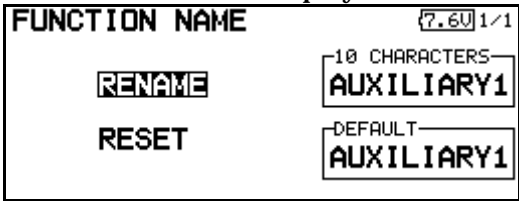
The function name can be freely changed.

- The functions whose name can be changed are the spare functions (AUXILIARY1~8).

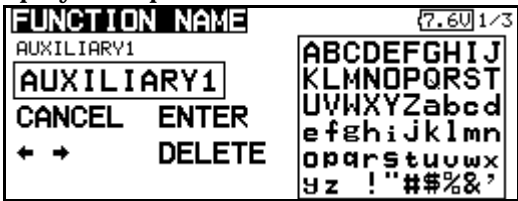
1. Select [FUNCTION NAME] of the Linkage Menu and press the EDIT button.
2. The FUNCTION NAME setup screen is displayed.



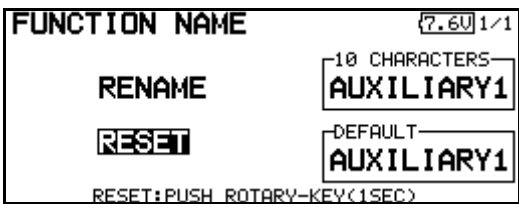
3. When the function whose name is to be changed is selected and the EDIT button is pressed, a modification screen is displayed.



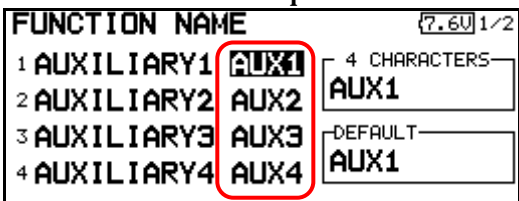
4. When [RENAME] is selected and the EDIT button is pressed, the character input screen is displayed. Input the function name.



5. When [RESET] is selected and the EDIT button is held down, the function name is set to the initial state function name.



6. The function name may be displayed in 10 characters or 4 characters, depending on the setup screen. For 4 characters display, input the function name as required.



Condition selection [COND.SELECT]

The condition switch of the conditions (IDLEUP1, IDLEUP2, IDLEUP3, HOLD) preset in the helicopter mode has been changed to NULL.

Timer

A memory mode which does not reset the timer even when the power is turned off or the model is switched has been added.

1. Open [TIMER] of the Linkage Menu.
2. Select "MEMORY" and turn the EDIT dial and switch the display to [ON] or [OFF].

The display blinks.

[ON] : Memory mode. The timer value is held even if the power is turned off or the model is switched.

[OFF] : The timer is reset by power off and model switching as in the past.

3. When the EDIT button is pressed, the setting is changed.



Trim display units

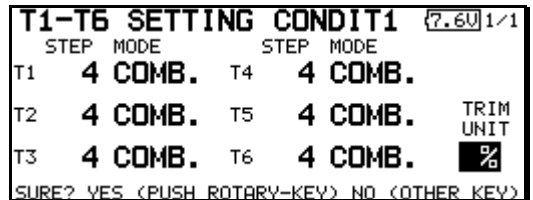
Percentage (%) display can be selected at trim.

1. Open [T1-T6 SETTING] of the Linkage Menu.
2. Select "TRIM UNIT" and turn the dial and switch the display to [%] or [--].

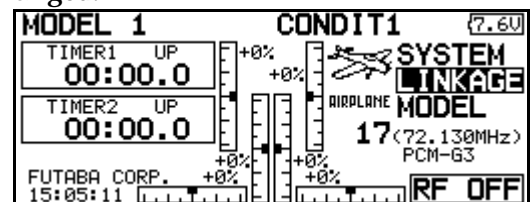
The display blinks.

[%] : Trim is displayed in % units.

[--] : Trim is displayed numerically as in the past.



3. When the EDIT button is pressed, the setting is changed.



Function channel initialization

PCM1024 mode and PPM mode function channel setting was changed as shown below.

■ Normal and V-tail

CH	1Aileron		2Aileron		2Aileron + 1Flap	
	Airplane	Glider	Airplane	Glider	Airplane	Glider
1	Aileron	Aileron	Aileron	Aileron	Aileron	Aileron
2	Elevator	Elevator	Elevator	Elevator	Elevator	Elevator
3	Throttle	Motor	Throttle	Motor	Throttle	Motor
4	Rudder	Rudder	Rudder	Rudder	Rudder	Rudder
5	Gear	AUX7	Gear	AUX7	Gear	AUX6
6	Airbrake	Airbrake	Aileron2	Aileron2	Flap	Flap
7	AUX6	AUX6	AUX6	AUX6	Aileron2	Aileron2
8	AUX5	AUX5	AUX5	AUX5	AUX5	AUX5
VC1	AUX1	AUX1	Camber	Camber	Camber	Camber
VC2	AUX1	AUX1	AUX1	Butterfly	AUX1	Butterfly
VC3	AUX1	AUX1	AUX1	AUX1	AUX1	AUX1
VC4	AUX1	AUX1	AUX1	AUX1	AUX1	AUX1

CH	2Aileron + 2Flap		2Aileron + 4Flap	4Aileron + 2Flap
	Airplane	EP Glider	Glider	Glider
1	Aileron	Aileron	Aileron	Aileron
2	Elevator	Elevator	Elevator	Elevator
3	Throttle	Motor	Rudder	Rudder
4	Rudder	Rudder	Aileron2	Aileron2
5	Gear	AUX5	Flap	Aileron3
6	Aileron2	Aileron2	Flap2	Aileron4
7	Flap	Flap	Flap3	Flap
8	Flap2	Flap2	Flap4	Flap2
VC1	Camber	Camber	Camber	Camber
VC2	AUX1	Butterfly	Butterfly	Butterfly
VC3	AUX1	AUX1	AUX1	AUX1
VC4	AUX1	AUX1	AUX1	AUX1

■ Flying wing

CH	2Aileron		2Aileron + 1Flap		2Aileron + 2Flap		2Aileron + 4Flap	4Aileron + 2Flap
	Airplane	Glider	Airplane	Glider	Airplane	Glider	Glider	Glider
1	Aileron	Aileron	Aileron	Aileron	Aileron	Aileron	Aileron	Aileron
2	Rudder2	Rudder2	Rudder2	Rudder2	Rudder2	Rudder2	Aileron2	Aileron2
3	Throttle	Motor	Throttle	Motor	Throttle	Motor	Rudder	Aileron3
4	Rudder	Rudder	Rudder	Rudder	Rudder	Rudder	Rudder2	Aileron4
5	Gear	AUX7	Gear	AUX6	Gear	AUX6	Flap	Rudder
6	Aileron2	Aileron2	Flap	Flap	Flap	Flap	Flap2	Rudder2
7	AUX6	AUX6	Aileron2	Aileron2	Aileron2	Aileron2	Flap3	Flap
8	AUX5	AUX5	AUX5	AUX5	Flap2	Flap2	Flap4	Flap2
VC1	Elevator	Elevator	Elevator	Elevator	Elevator	Elevator	Elevator	Elevator
VC2	Camber	Camber	Camber	Camber	Camber	Camber	Camber	Camber
VC3	AUX1	AUX1	AUX1	Butterfly	AUX1	Butterfly	Butterfly	Butterfly
VC4	AUX1	AUX1	AUX1	AUX1	AUX1	AUX1	AUX1	AUX1

■ Ailevator

CH	1Aileron		2Aileron		2Aileron + 1Flap		2Aileron + 2Flap	
	Airplane	Glider	Airplane	Glider	Airplane	Glider	Airplane	Glider
1	Aileron	Aileron	Aileron	Aileron	Aileron	Aileron	Aileron	Aileron
2	Elevator	Elevator	Elevator	Elevator	Elevator	Elevator	Elevator	Elevator
3	Throttle	Motor	Throttle	Motor	Throttle	Motor	Throttle	Motor
4	Rudder	Rudder	Rudder	Rudder	Rudder	Rudder	Rudder	Rudder
5	Gear	AUX7	Gear	AUX7	Gear	AUX6	Elevator2	Elevator2
6	Airbrake	Airbrake	Aileron2	Aileron2	Flap	Flap	Aileron2	Aileron2
7	Elevator2	Elevator2	Elevator2	Elevator2	Aileron2	Aileron2	Flap	Flap
8	AUX5	AUX5	AUX5	AUX5	Elevator2	Elevator2	Flap2	Flap2
VC1	AUX1	AUX1	Camber	Camber	Camber	Camber	Camber	Camber
VC2	AUX1	AUX1	AUX1	Butterfly	AUX1	Butterfly	AUX1	Butterfly
VC3	AUX1	AUX1	AUX1	AUX1	AUX1	AUX1	AUX1	AUX1
VC4	AUX1	AUX1	AUX1	AUX1	AUX1	AUX1	AUX1	AUX1

■ Helicopter

CH	H-1,H-2,HE3,HR3,HN3,H-3	H4,H-4X
1	Aileron	Aileron
2	Elevator	Elevator
3	Throttle	Throttle
4	Rudder	Rudder
5	Gyro	Gyro
6	Pitch	Pitch
7	Governor	Governor
8	Needle	Elevator2
VC1	AUX1	AUX1
VC2	AUX1	AUX1
VC3	AUX1	AUX1
VC4	AUX1	AUX1

(Update Modification Contents in the past)

Program Mixing [PROG. MIXES]

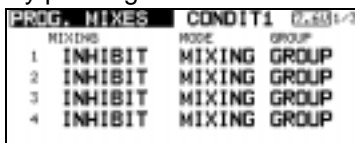
[All model types]

An offset mode has been added to the program mixing function. "Offset mode" is a function which allows simultaneous offset control of up to 4 slave functions per circuit.

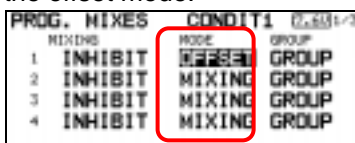
Setting Methods

Activate the function.

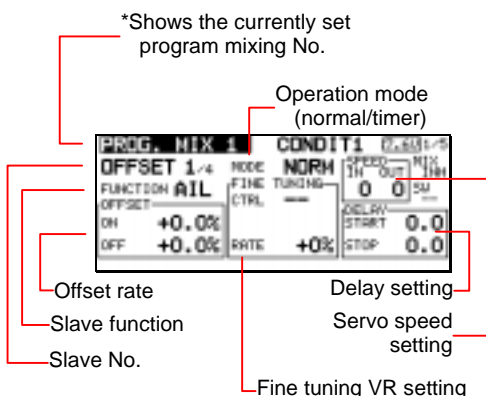
1. Select [PROG.MIXES] at the model menu and call the setup screen by pushing the EDIT button.



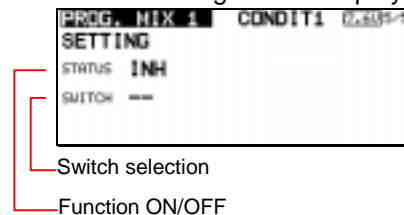
2. Use [MODE] setting to select the program mixing operation mode. [MIXING] is the normal mixing mode and [OFFSET] is the offset mode.



3. Move the cursor to [INHIBIT] of the mixing No. set to the offset mode and push the EDIT button. The setup screen is displayed.



4. Press the S1 button. Page 5/5 is displayed.



5. Move the cursor to the [STATUS] item and switch to the data input mode by pushing the EDIT button.

6. Turn the dial to the left and right until [ACT] blinks, and then push the EDIT button. To deactivate the function, switch to [INH].

ON/OFF switch selection

Move the cursor to the page 5/5 [SWITCH] item, call the switch setup screen by pushing the EDIT button, and then select the switch and ON direction. (For a detailed description of the selection method, see [Switch Selection Method] at the back of the instruction manual.)

Slave No. selection

Setting of the slave No. from 1 to 4 at pages 1/5 ~ 4/5 is displayed. When the S1 button is pushed, the displayed slave No. is switched.

Slave function setting

Move the cursor to the [FUNCTION] item and switch to the data input mode by pushing the EDIT button. Select the function by turning the dial and then push the EDIT button.

Offset rate setting

The function operation offset amount when the mixing switch is ON and OFF can be set independently.

1. Move the cursor to the [ON] or [OFF] item and switch to the data input mode by pushing the EDIT button.
2. Turn the dial to the left and right and set the offset rate when the switch is ON or OFF

Initial setting : 0%

Setting range: -300 ~ +300%

3. After setting, switch to the cursor move mode by pushing the EDIT button.

*At adjustment, the offset rate is reset to the initial value by pushing the EDIT button for 1 second

Fine tuning trim setting

Operation control [CTRL], operation mode [MODE], and rate [RATE] adjustment is possible by [FINE TUNING] item. (For a description of the setting method, refer to [Fine tuning trim setting] at the back of the instruction manual.)

Operation mode setting

The operation mode when the switch was operated is selected. Normal mode [NORM] or timer mode [TIME] can be selected.

[Normal mode]

After the switch is set to ON, mixing is turned ON after the time set by start delay ([START]) has elapsed. Similarly, after the switch was set to OFF, mixing is turned OFF after the time set by stop delay ([STOP]) has elapsed.

[Timer mode]

After the switch was set to ON, mixing is turned ON after the time set by start delay ([START]) has elapsed. Mixing is automatically turned OFF after the time set by stop delay ([STOP]) has elapsed. Examples of use are jet plane and scale model retractable landing gear and cover linked mixing, etc.

Servo speed setting

The speed at function operation can be adjusted. (For a description of the setting method, refer to [Servo speed setting] at the back of the instruction manual.)

Delay setting

Mixing operation at mixing switch ON ([START]) and OFF ([STOP]) can be delayed by [DELAY] item. (When switch is set.)

1. Move the cursor to the [START] or [STOP] item and switch to the data input mode by pushing the EDIT button.
2. Turn the dial left and right and set the mixing operation delay time at switch ON or OFF.

Initial value : 0 sec

Setting range : 0 ~ 35 sec

3. After adjustment, switch to the cursor move mode by pushing the EDIT button.

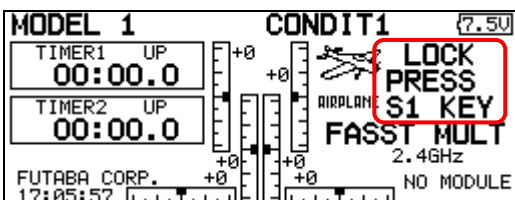
*At adjustment, the delay time can be reset to the initial value by pushing the EDIT button for 1 second.

Edit lock function

To prevent the data from being changed by erroneous touching of the EDIT dial during flight, a function which temporarily disables the EDIT dial has been added.

How to lock

1. The home screen is displayed.
2. Press the S1 button. "LOCK" is displayed and the EDIT dial is disabled.



How to unlock

1. Press the S1 button for about 1 second in the EDIT dial locked state. The EDIT dial is enabled again