Instruction of the T14MZ

1. Charging the battery

1-1. Open the battery cover and slide right and remove the battery.

1-2. Insert the battery to attached charger. The orange LED is light.

1-3. The charging is finished when the orange LED is off. The charging time is appx. 1.5 hours but it depends on how much remain the battery capacity at starting the charge. The battery is 2 cells Li-ion battery the capacity is 7.4 V/ 2,200mAH.

2. Operation of the touch panel

The editing is completed by touch panel operation (You can use rotary encoder alternative)

2-1. The touch panel surface is made of plastic. The surface hardness is appx. 2H. Must not use hard tips such as metal screw driver.

2-2. The touch panel is constructed by grass. It will be broken if excess stress is forced to its surface. You always operate the touch panel with your finger tip or plastic pen.

3. Operation of the rotary encoder

The rotary encoder for editing is located bottom center of the transmitter. It consists of rotary encoder and encoder push switch.

3-1. Rotary encoder

Scroll the editing menu, changes the data.

3-2. Encoder push switch

Changes the editing mode, changes data.

4. Installing the antenna

The antenna is stored in the antenna box located bottom of the transmitter case. Pull out the antenna and put it to antenna connector on top of the transmitter. The antenna would be attached turns it 90 degree twisted.
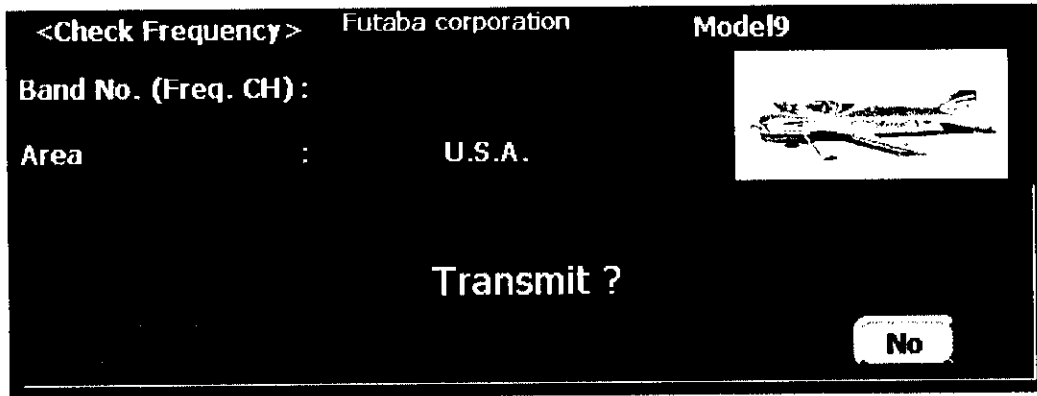
5. Turns on the transmitter

5-1. Power switch is to be on. The 7 colors LED flash then Pink LED is light. LCD displays the frequency confirmation screen.

5-2. LCD is asking whether transmit the RF signal or not.

a). Push "Yes": Transmitting the RF signal with displayed frequency. Green LED is light. Going to Home screen.

b). Push "No": No RF signal transmitted. No LED is changed. Going to Home screen.

<Check Frequency> Futaba corporation   **Model9**

Band No. (Freq. CH) :

Area   :   **U.S.A.**

Transmit ?

No

6. Turn off the transmitter

6-1. Power switch is to be off.

6-2. LCD displays "Saving model data" and LED flashes yellow color. The model data are stored to internal memory.

You should stay the power switch to be off during this process otherwise the model data is lost.

7. Basic operation of editing

LCD screen is consists of editing button and monitor display. You can go through editing menu to push touch screen button or move cursor by rotary encoder and encoder push switch. You can go back to previous menu to push "close", "Return", "Enter" button or menu button located left top of the LCD screen.

8. Home screen

You always enter this screen after choosing the RF signal on or off. It is a base screen to edit.
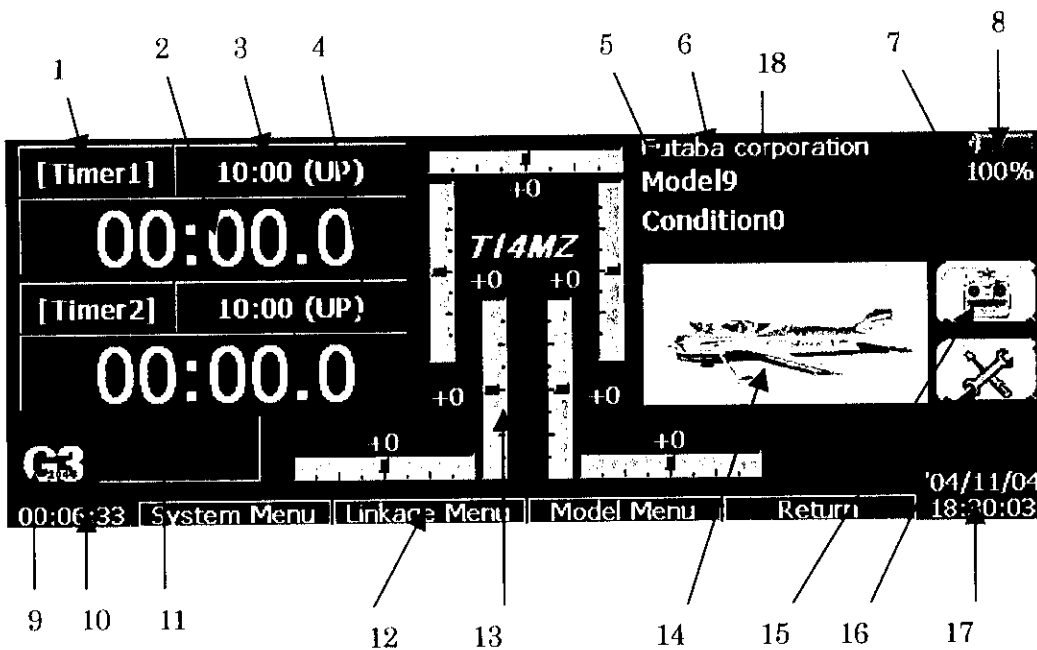
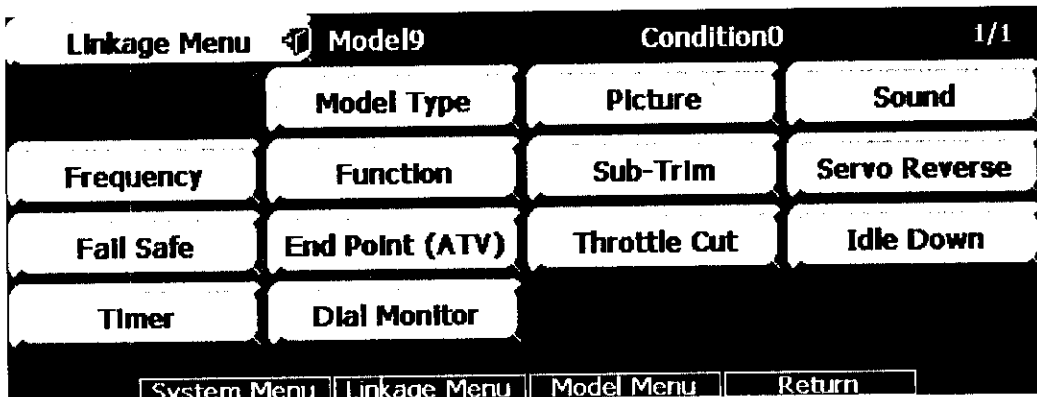1. Timer Edit button (B)
2. Timer Start/Stop button (B)

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3. Timer Reset button (B)
4. Timer2 (same as Timer1)
5. Model name (M)
6. User name (M)
7. RF transmit (M)
8. Battery gauge (M)
9. Modulation (M)
10. Integration timer (M)
11. Frequency indicator (B)
12. Hot key (direct recall key) assign (M)
13. Trim indicator (B)
14. Model menu (B)
15. System menu (B)
16. Linkage menu (B)
17. Real time clock (M)
18. Condition name (M)
    (M): Monitor display
    (B): Editing button

9. Linkage menu

The linkage menu sets the primary data of the each model. These data are common to every flight condition.

Push "Linkage Menu (16)" button on the Home screen, you can get into Linkage menu screen. Push "Linkage Menu" button on the left top of LCD, you can go back to Home screen.

Linkage Menu	Model9	Condition0	1/1
	Model Type	Picture	Sound
Frequency	Function	Sub-Trim	Servo Reverse
Fail Safe	End Point (ATV)	Throttle Cut	Idle Down
Timer	Dial Monitor		
System Menu	Linkage Menu	Model Menu	Return

8-1. Frequency

This system operates by synthesizer. You can set the desire frequencies which are allowed in country regulation.

Push "Frequency" button, you can get into its screen. Push "frequency" button on the left top of LCD, you can go back to Linkage Menu. You can reach this screen directly pushing the frequency indicator (11) on the Home screen either.
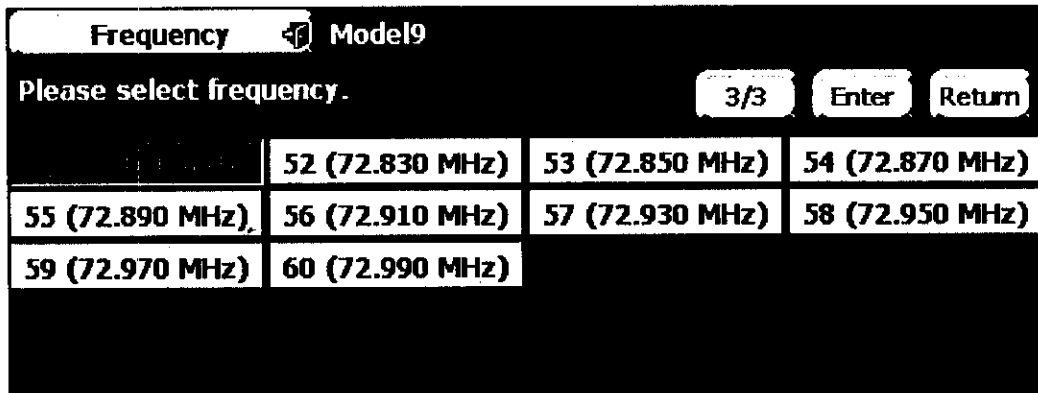
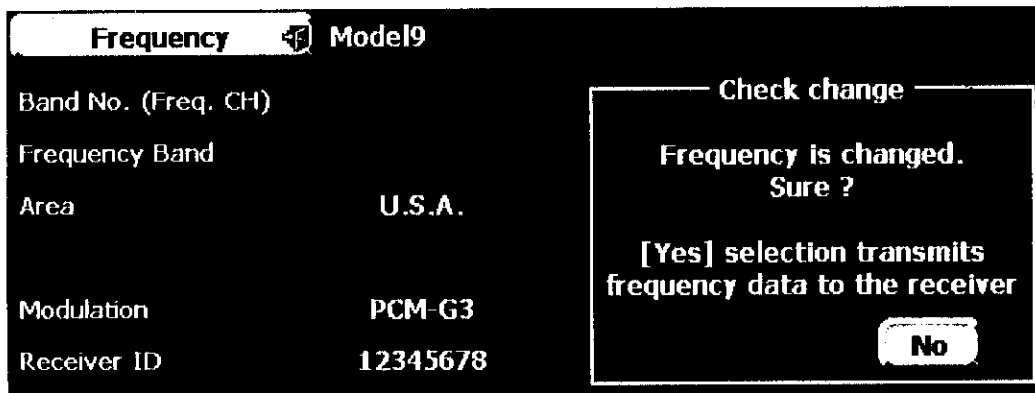| Frequency	🔧 Model9
Band No. (Freq. CH)	
Frequency Band	
Area	U.S.A.
Modulation	**PCM-G3**
Receiver ID	**12345678**

[Frequency changes]
a). Push Band No. button, you can reach the frequency channel list screen. You can get into additional channel pushing "1/3", "2/3", "3/3" button as below

Frequency 🔧 Model9			
Please select frequency. [1/3] [Enter] [Return]			
11 (72.010 MHz)	**12 (72.030 MHz)**	**13 (72.050 MHz)**	**14 (72.070 MHz)**
15 (72.090 MHz)	**16 (72.110 MHz)**	**17 (72.130 MHz)**	**18 (72.150 MHz)**
19 (72.170 MHz)	**20 (72.190 MHz)**	**21 (72.210 MHz)**	**22 (72.230 MHz)**
23 (72.250 MHz)	**24 (72.270 MHz)**	**25 (72.290 MHz)**	**26 (72.310 MHz)**
27 (72.330 MHz)	**28 (72.350 MHz)**	**29 (72.370 MHz)**	**30 (72.390 MHz)**

Frequency 🔧 Model9			
Please select frequency. [2/3] [Enter] [Return]			
31 (72.410 MHz)	**32 (72.430 MHz)**	**33 (72.450 MHz)**	**34 (72.470 MHz)**
35 (72.490 MHz)	**36 (72.510 MHz)**	**37 (72.530 MHz)**	**38 (72.550 MHz)**
39 (72.570 MHz)	**40 (72.590 MHz)**	**41 (72.610 MHz)**	**42 (72.630 MHz)**
43 (72.650 MHz)	**44 (72.670 MHz)**	**45 (72.690 MHz)**	**46 (72.710 MHz)**
47 (72.730 MHz)	**48 (72.750 MHz)**	**49 (72.770 MHz)**	**50 (72.790 MHz)**

Frequency 🔲 Model9			
Please select frequency.		3/3　Enter　Return	
	52 (72.830 MHz)	53 (72.850 MHz)	54 (72.870 MHz)
55 (72.890 MHz)	56 (72.910 MHz)	57 (72.930 MHz)	58 (72.950 MHz)
59 (72.970 MHz)	60 (72.990 MHz)		

b). Set the desire channel number and push "Enter" button.

c). Confirm the setting channel and push "Yes" button. The transmitter frequency is changed. The frequency set up has finished when you choose PCM1024 or PPM mode.
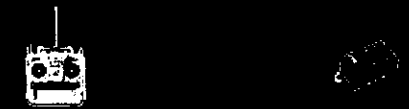
Frequency 🔲 Model9		Check change
Band No. (Freq. CH)		Frequency is changed.
Frequency Band		Sure ?
Area	U.S.A.	[Yes] selection transmits frequency data to the receiver
Modulation	PCM-G3	
Receiver ID	12345678	No

d). The screen changes to "frequency data transmission" when you choose PCMG3 mode. The transmitter transmits the receiver frequency data for 5 seconds. The LED changes to sky-blue color at the moment. Turn on receiver, you can recognize if the receiver receives the correct frequency data with flash LED one time located center of the Sx pin board on the receiver or twist CH1 servo 3 times. Push "End" button, LCD asks to turn off the power. You can retry this process pushing the "Retry" button when you failed to change the receiver frequency.

ID code error is recognized when twinkle LED on the receiver, you should correct the receiver ID code.
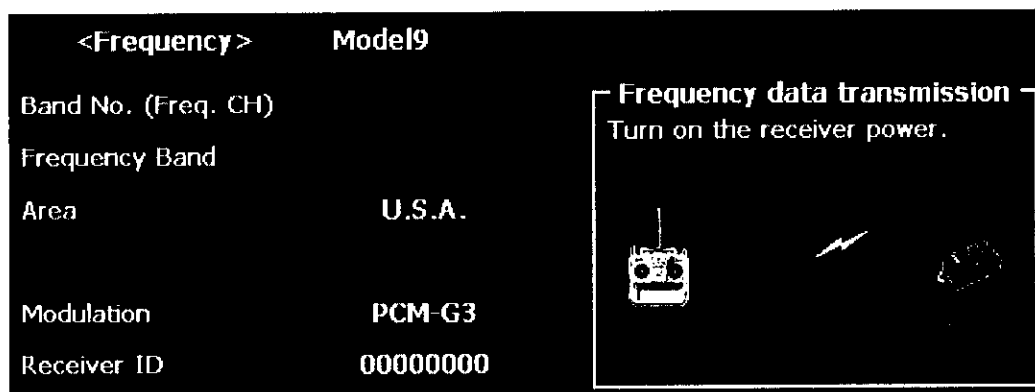
<Frequency> Model9		Frequency data transmission
Band No. (Freq. CH)		Turn on the receiver power.
Frequency Band		
Area	U.S.A.	
Modulation	PCM-G3	
Receiver ID	00000000	

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<Frequency>   Model9

Band No. (Freq. CH)

Frequency Band

Area   U.S.A.

Modulation   PCM-G3

Receiver ID   00000000

┌ **Frequency data transmission** ┐
Turn on the receiver power.

Retry

Frequency is changed.
Please turn off the power switch.

[Modulation]
a). Push modulation button, you can reach to modulation table.

Frequency   Model9

Please select a modulation type.   **Enter** **Return**

PCM1024   **PPM**

b). Select either PCMG3 or PCM1024, PPM. Push "Yes", LCD asks to turn off the power.

Frequency	Model9

		Check change
Band No. (Freq. CH)		
Frequency Band		Modulation type is changed.
Area	U.S.A.	Sure ?
		[Yes] selection stops transmission.
Modulation	PCM1024	
Receiver ID	00000000	No

Modulation is changed.
Please turn off the power switch.

[Receiver ID]
The receiver has unique ID code. It consists of 8 numeric numbers. You must set ID code so that correct operation of the frequency setting to PCMG3 receiver.
a). Push the Receiver ID button, you can reach the ID code setting screen.
b). Enter the 8 numbers and push "Enter" button.

·Note·
1). The system utilizes the micro power meeting to FCC part 15.231 during frequency setting mode so that not interfere to other receivers. The operation ranges is less than a feet. The transmitting frequency is next of upper edge of the authorized frequency (73.010MHz).

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