COMMON OPERATIONS USED IN FUNCTION SETUP SCREEN

This section describes the functions often used at the function setup screen. Refer to it when setting each function.

Operations related to flight conditions

Group/single mode switching (Gr./Sngl)

When setting multiple flight conditions, linking the setting contents with other conditions (Gr.) or setting independently (Sngl) can be selected. When the button is touched, it toggles between Gr. and Sngl.

*Group mode (Gr.) (initial setting): The same setting contents are set to all the flight conditions in the group mode.

*Single mode (Sngl): Select this mode when the setting contents are not linked with other conditions.

*Selecting the single (Sngl) mode at each condition after presetting in the group mode (Gr.) is convenient.

Condition delay setting

Unnecessary fuselage motion generated when there are sudden changes in the servo position and variations in the operating time between channels at condition switching can be suppressed.

When the delay function is set at the switching destination condition, a delay corresponding to that amount is applied and the related functions change smoothly.

[Setting method]

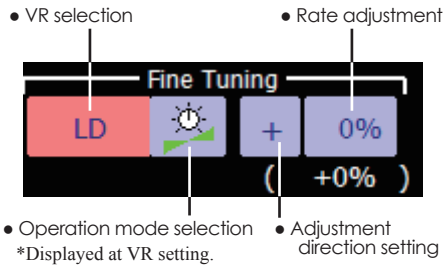
1. Switch to the condition you want to set.
2. Touch the Delay button.
3. Use the adjustment buttons to set the delay.

*Initial value: 0

*Adjustment range: 0~27 (maximum delay)

Operations related to VR tuning

Fine tuning VR setting



[Operation modes]

Mixing rate 0% at center of VR
When the VR is turned counterclockwise and clockwise, the mixing rate increases and decreases, respectively.

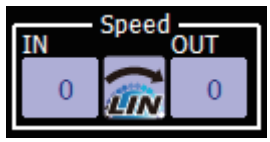
Mixing rate 0% at left end of VR
When the VR is turned, the mixing rate increases.

Mixing rate 0% at right end of VR.
When the VR is turned, the mixing rate increases.

When the VR is turned to the left or right of the neutral position, the mixing rate increases.

Operations related to servo speed

Servo speed setting (1)



The speed during operation (including flight condition switching) can be adjusted. The servos operate smoothly at a constant speed corresponding to the speed set for them. The operation speed (In Speed) and the return speed (Out Speed) can be set individually.

Switch the operation mode according to the set function. When the button is touched, it toggles between [LIN] and [SYM].

"SYM" mode: Mode used with ailerons and other self-neutral functions

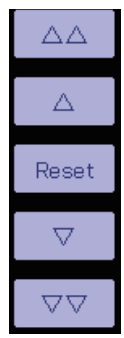
"LIN" mode: Mode used with functions which hold the operation position of the throttle and switch channel, etc.

[Setting method]

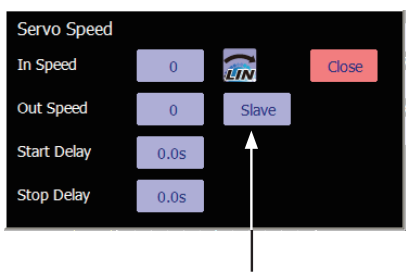
1. Select the function ([LIN] or [SYM]) matched to the master channel. Each time the button is touched, it toggles between [LIN] and [SYM].
2. Touch the In or Out Speed button and set the servo speed.

Initial value: 0

Setting range: 0~27



Servo speed setting (2) (Prog. Mix only)



Speed mode: Slave/Master

The speed mode can be selected.

Slave mode: The speed at programmable mixing switching can be adjusted. The servos operate smoothly at a constant speed corresponding to the set speed.

Master mode: The servo movement is traced by the setting curve. The trace speed is adjusted by in and out speed.

[Setting method]

1. When setting the servo speed, touch the Speed button. The Servo Speed setup screen shown above is displayed.
2. Select the function ([LIN] or [SYM]) matched to the master channel. Each time the button is touched, it toggles between [LIN] and [SYM].

   "SYM" mode: Mode used with ailerons and other self-neutral functions.

   "LIN" mode: Mode used with functions which hold the operating position of the throttle and switch channel, etc.
3. Touch the In Speed button and set the servo speed.

   Initial value: 0

   Setting range: 0~27
4. Touch the Out Speed button and set the servo speed.

   Initial setting: 0

   Setting range: 0~27
5. Touch the Start Delay button and set the delay time from switch ON to the start of function operation.

   Initial setting: 0.0 sec

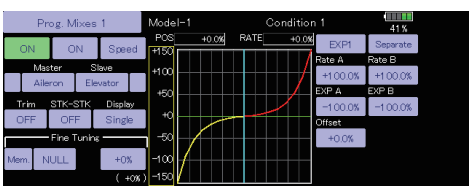
   Setting range: 0~4 secs
6. Touch the Stop Delay button and set the delay time from switch OFF to the start of function operation.

   Initial setting: 0

   Setting range: 0~4 secs

At master mode;

1. Set desired in and out speed.
2. Select the master channel to any toggle switch.
3. The slave channel's servo traces the setting curve as the master toggle switch is moved. Below the case, AUX1 servo traces an EXP1 curve as the SW-F is operated.

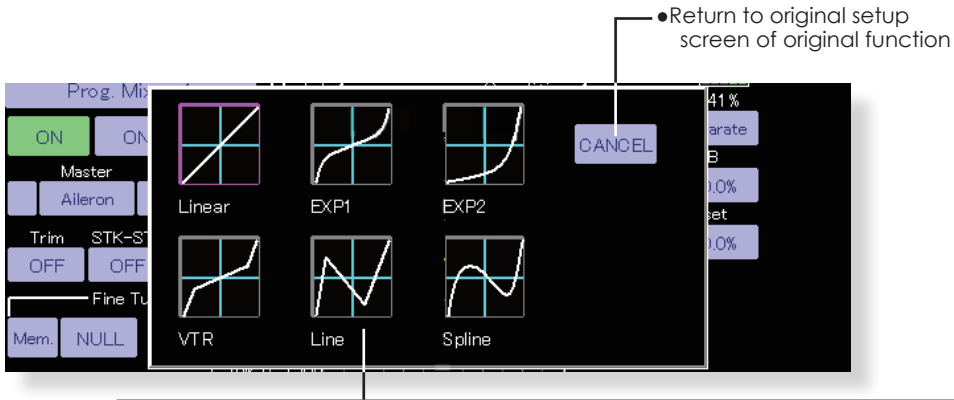


Curve setting operation

This section describes the setting procedure of curves which are used with the AFR function and each mixing function.

Curve type selection

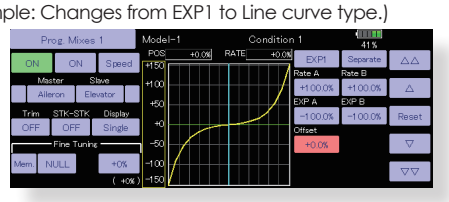
When the curve type select button on the mixing function screen or other screen is touched, the setup screen shown below is selected.

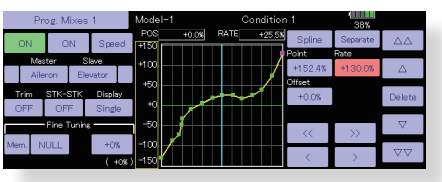


When curve type is changed:

The curve shape is inherited when the curve type is changed.

(Example: Changes from EXP1 to Line curve type.)



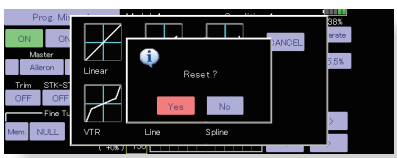


Changed to line or spline mode, the curve is retrieved as 17 points curve.

The RateA and RateB are inherited on the linear, EXP1, EXP2 and VTR.

Other data except RateA and RateB are retrieved from the previous setting data when changing the curve type.

At the curve type changes, the dialogue box asks whether the current curve is reset or inherited. The default curve is used when selecting the Yes button on the confirmation dialogue.



Setting by curve type

When the curve type is selected as described above, adjustment buttons corresponding to the curve type appear on the original screen. Adjust each curve as described below.

Linear curve adjustment

RateA and RateB can be adjusted separately or simultaneously.

[Setting modes]

- ***[Separate] mode:** Rates are adjusted separately.
- ***[Combined] mode:** Rates are adjusted simultaneously.

[Setting method]

1. Select the setting mode.
2. Touch the RateA or RateB button.
3. Use the adjustment buttons to set the rate.

*Initial value: +100.0%

*Adjustment range: -200.0~+200.0%

The curve can also be offset horizontally in the vertical direction and the rate reference point can be offset to the left or right.

[Offsetting the curve horizontally in the vertical direction]

1. Touch the Offset button.
2. Use the adjustment buttons to move the curve horizontally up and down.

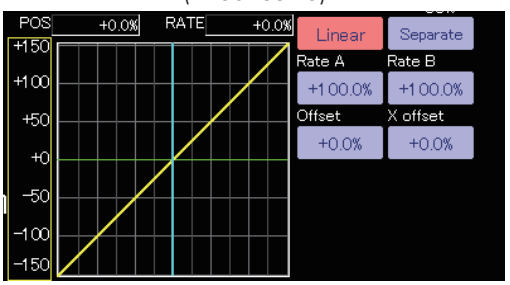
*Initial value: +0.0%

[Offsetting the rate reference point to the left or right]

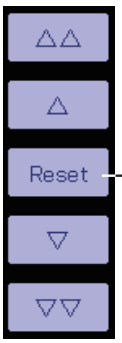
1. Touch the X Offset button.
2. Use the adjustment buttons to move the reference point to the left or right.

*Initial value: +0.0%

(Linear curve)



(Rate adjustment buttons)



●Return to initial value

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EXP1 curve adjustment

RateA and RateB can be adjusted separately or simultaneously. The EXP curves rate (EXP A, EXP B) can also be adjusted separately or simultaneously.

[Setting modes]

*__[Separate] mode:__ Rates are adjusted separately.

*__[Combined] mode:__ Rates are adjusted simultaneously.

[Setting method]

1. Select the setting mode.
2. Touch the button of the rate or EXP curve rate your want to set.
3. Use the adjustment buttons to set the rate.

*Initial value: +100.0% (rate), +0.0 (EXP rate)

The curve can also be horizontally offset in the vertical direction.

[Offsetting the curve horizontally in the vertical direction]

1. Touch the Offset button.
2. Use the adjustment buttons to move the curve horizontally up or down.

*Initial value: +0.0

VTR curve adjustment

RateA and RateB can be adjusted separately or simultaneously. The VTR curve point positions (P.Pos.A, P.Pos.B) and rates (P.RateA, P.RateB) can also be adjusted separately or simultaneously.

[Setting modes]

*__[Separate] mode:__ Positions and rates are adjusted separately.

*__[Combined] mode:__ Positions and rates are adjusted simultaneously.

[Setting method]

1. Select the setting mode.
2. Touch the button of the rate or VTR curve point position (or rate) you want to set.
3. Use the adjustment buttons to set the VTR curve point position (or rate).

*Initial values: +100.0% (Rate), +50.0% (P.Pos.A), +50.0% (P.Pos.B), +0.0% (P.Rate)

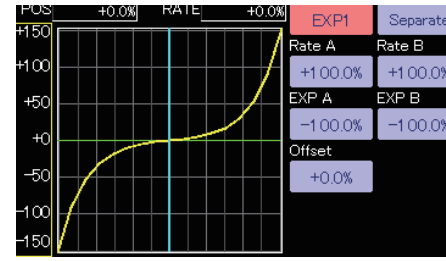
The curve can also be offset horizontally in the vertical direction.

[Offsetting the curve horizontally in the vertical direction]

1. Touch the Offset button.
2. Use the adjustment buttons to move the curve horizontally up and down with the adjustment buttons.

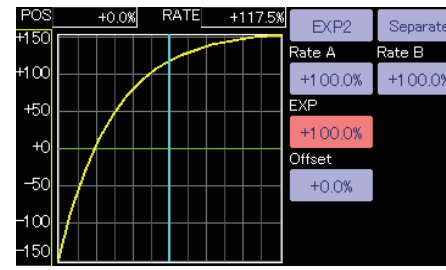
*Initial value: +0.0%

(EXP1 curve)



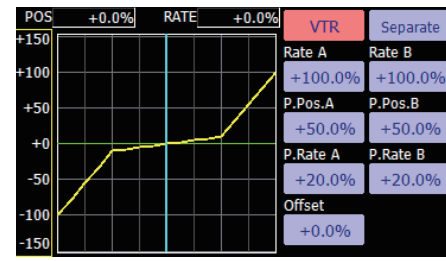
- Using the EXP1 curve is helpful in smoothening starting of the ailerons, elevators, rudder, etc.

(EXP2 curve)



- Using the EXP2 curve is helpful in engine rise and other engine control.

(VTR curve)



- Setting is fast if left, right, up, and down are first decided in the Combined mode and the mode is then switched to the Separate mode.

  When this curve is used when the operating rudder angle is large such as with acrobatic models, switching from normal flight to acrobatic rudder angle is performed without switch operation.

Line and spline curve adjustment

Line curves or spline curves of up to 17 points can be used. (Initial value: 7/9 points) The set points can be freely increased, decreased, and offset. Curves which are symmetrical to the left and right of center can also be set.

[Setting modes]

*__[Separate] mode:__ Normal setting

*__[Combined] mode:__ Creates a left and right symmetrical curve.

[Adjusting the rate of each point]

1. Use the move between points buttons [<<] or [>>] to select the point. (The pink point is the selected point.)
2. Touch the Rate button.
3. Use the adjustment buttons to adjust the rate.

[Point addition method]

1. After touching the point button, move the stick, etc. to the point you want to add and press the [Move] button. (An outlined point appears on the graph.)

   Or move the stick, etc. to the position you want to add and press the [Move] button. (An outlined point appears on the graph.)
2. Use the move buttons [<] or [>] to fine adjust the position.
3. Touch the Insert button.

*A new point is created.

[Point deletion]

1. Use the move between points button [<<] or [>>] and select the point. (The pink point is the selected point.)
2. Because [Rate] is pushed and [Delete] is displayed, touch the [Delete] button. (The selected point becomes an outlined point.)
3. Touch the move between point button [<<] or [>>].

*The point is deleted.

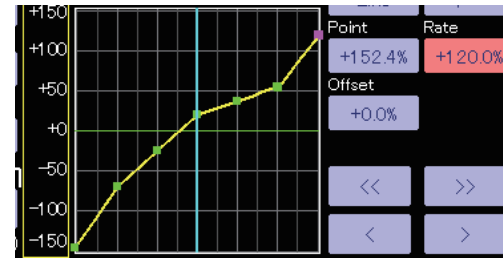
The curve can also be offset horizontally in the vertical direction.

[Offsetting the curve horizontally in the vertical direction]

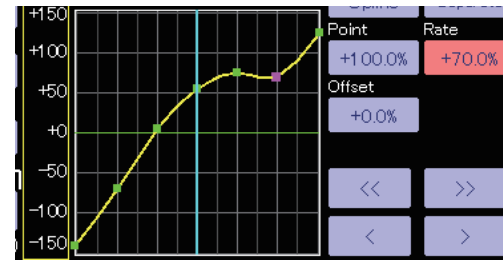
1. Touch the Offset button.
2. Use the adjustment buttons to move the curve horizontally up and down.

*Initial value: +0.0%

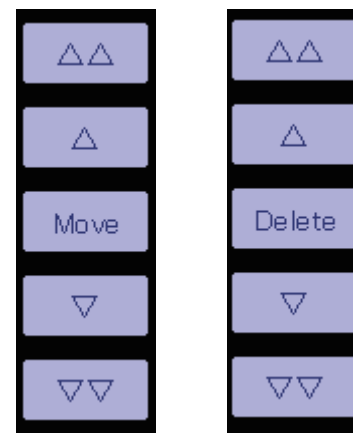
(Line curve)



(Spline curve)



(Rate adjustment buttons)



Switch selection method

The various functions used in the T32MZ-WC can be selected by switch. The switch (including when stick, trim lever, or VR are used as a switch) setting method is common to all functions.

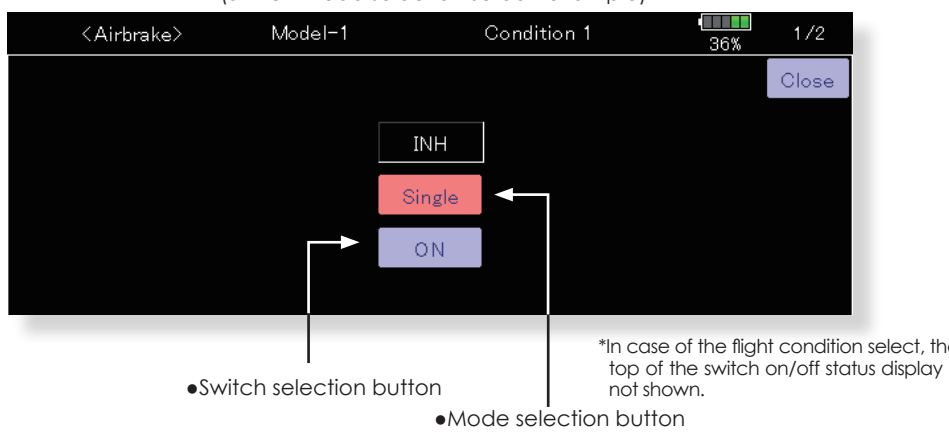
Switch mode selection (Single switch/Logic switch)

When the switch select button in a mixing function screen or other screen is touched, the switch mode selection screen shown below is selected. Single mode or logic mode can be selected.

Logic switch

The Logic switch can activate functions by the use of other switch combinations. Up to 4 switch combinations can be set. The Logic switch can be assigned to the mixing function as well as the flight condition select (except for Snap roll function on airplane mode).

(Switch mode selection screen example)



If using the single switch:

1. Push the switch selection button.
   *The switch selection screen appears.

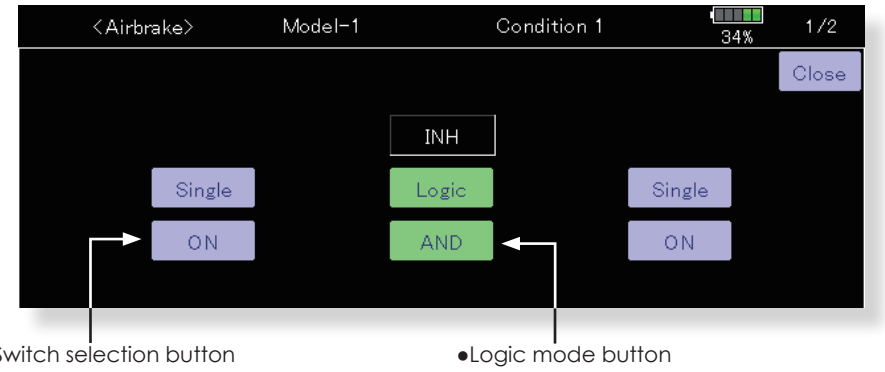
If using the logic switch:

1. The switch mode display is changed by pushing the mode selection button. Then push the [Yes] button.
   *The logic mode setting screen appears.
   *For a description of the logic mode setting method, see the section "Logic switch" below.

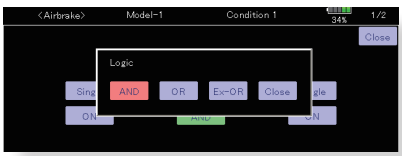
Logic switch

In the Logic screen, the switch selection buttons appear on both the left and right side of the display.

(Logic switch setting screen)



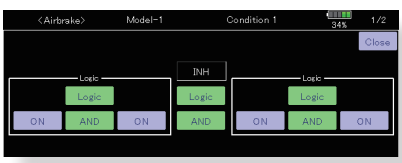
1.The logic selection dialogue appears when you push the logic mode button. The 3 types of logic, either AND, OR or EX-OR, can be selected.



Logic combination table:

SWITCH		LOGIC		
SW1	SW2	AND	OR	Ex-OR
off	***off***	***off***	***off***	***off***
off	***on***	***off***	***on***	***on***
on	***off***	***off***	***on***	***on***
on	***on***	***on***	***on***	***off***

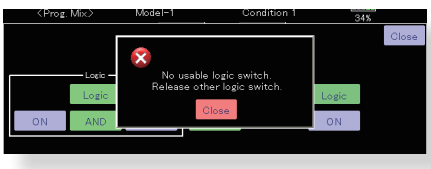
2. The left and right side of the switch mode can be set to the logic switch mode as well. In this case, a maximum of 4 switches can be assigned to the logic switch. The left and right logic are calulated first, then the center of the logic is calculated. Finally, switch on/off status determined by the 4 switches' combination.



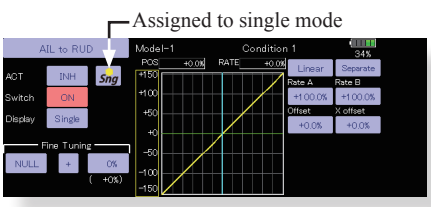
In the above case, the two switches in the left are calculated by AND logic. Next the two switches in the right are calculated as same way. Finally the first case and 2nd case are calculated by OR logic.

Caution:

1. The maximum number of the logic switch is 10 for the flight condition select and 8 for the mixing on/off selection on each flight condition. The error message will appear when the exceeded logic switch is going to be selected. In this case, delete the unused logic switch first, then select the new logic switch.



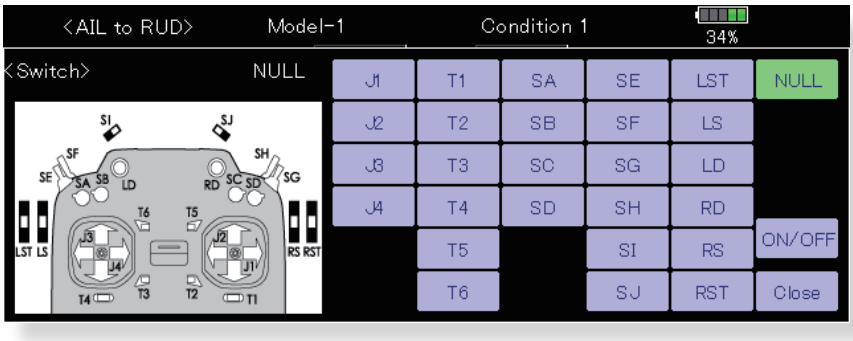
2. The mixing on/off switch modes are automatically assigned by single mode, not supported the group mode.



Switch selection

When the switch selection button in switch mode selection screen or the logic switch setting screen is touched, the screen below is shown.

(Switch selection screen example)

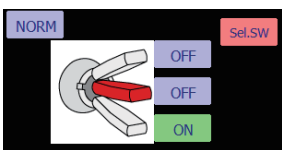


When switch is selected

Switch ON/OFF setting is possible at each position.

- **Alternate:** Alternate switching mode is available depending on mixing function.

1. When the ON position switch is touched after the switch was selected, the screen shown below appears.



*When the button of each position is touched, it toggles between ON and OFF.

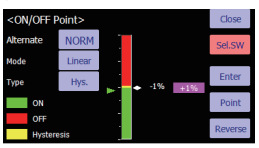
2. Touch the button and set to the ON position.
3. Close the screen by touching [Close].

When stick, trim lever, or VR is selected.

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

- **Mode:** Lin/Sym
- **Type:** Hysteresis (Hys.)/box (Box)

1. When the ON position button is touched after stick, etc. was selected, the screen shown below appears.



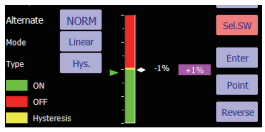
2. Select the mode you want to use, and set it as described below.
3. Close the screen by touching [Close].

Operation modes

The operation modes when stick, trim lever or VR are selected are described below. Change the operation mode by touching the Mode and Type buttons.

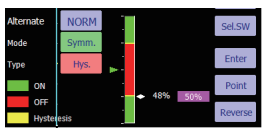
Linear hysteresis mode

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



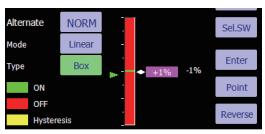
Symmetrical hysteresis mode

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.



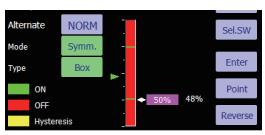
Linear box mode

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.



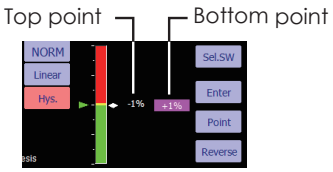
Symmetrical box mode

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



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.



[Setting method]

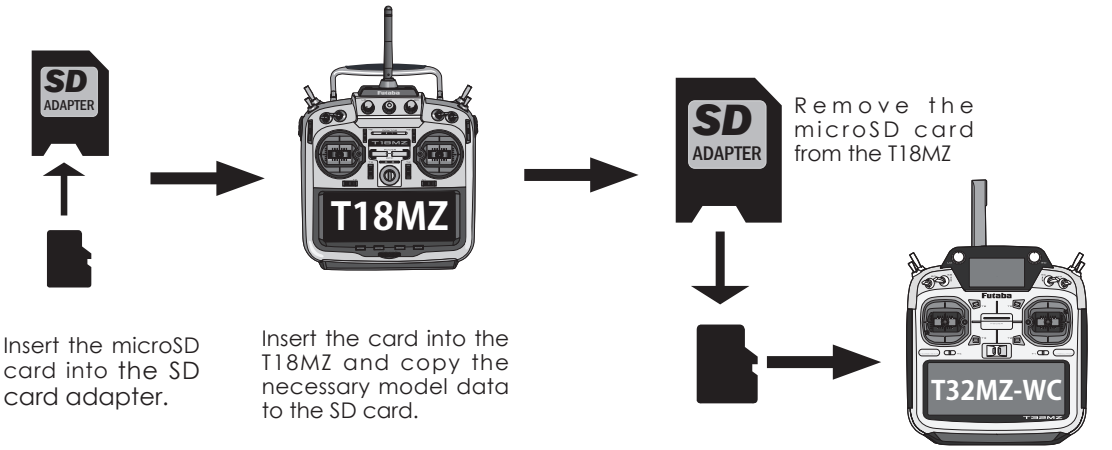
1. Select the top and bottom boundary points with the [Point] button.
2. Move the stick, etc. to the point you want to shift and touch the [Enter] button. The boundary points change.

*Also shift other points, as required.

T18MZ (WC) → T32MZ-WC MODEL DATA CONVERSION

The model data (only latest version) of T18MZ (WC) can be copied to T32MZ-WC.

* A microSD card and an SD card adapter are required.
* The model data of T32MZ-WC cannot be copied to T18MZ (WC).



Insert the microSD card into the SD card adapter.

Insert the card into the T18MZ and copy the necessary model data to the SD card.

Insert the microSD card into the T32MZ-WC. Copy the model data to T32MZ-WC and use it.

*When microSD card cannot be recognized, it may be able to be used if it reformats by SD formatter offered from SD Association.

SD formatter is downloadable from SD Association (https://www.sdcard.org/).

(As of April, 2019)

⚠ CAUTION

- After the completion of a data copy should fully perform a check of operation on the model to be used.
- Check well all the directions of operation and all the operation switches.