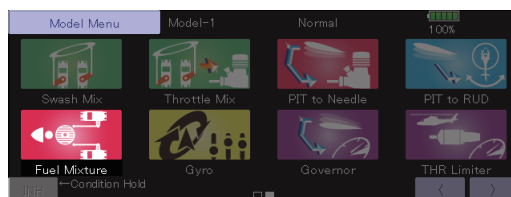
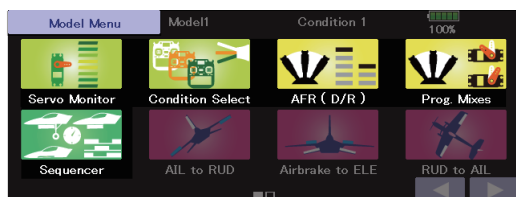


MODEL MENU (COMMON FUNCTIONS)

Before setting the model data, use the Model Type function of the Linkage Menu to select the model type matched to the fuselage. When another model type is selected thereafter, the AFR, program mixing, and other setting data are reset.

The functions in the Model Menu can be set for each

flight condition. When you want to use the system by switching the settings for each condition by switch, stick position, etc., use the Condition Select function to add flight conditions. (Up to 8 conditions can be used)



Model Menu functions (Common) table

- **Servo Monitor:** Servo test and servo position display (For a description of its functions, see the Linkage Menu section.)
- **Condition Select:** Flight conditions addition, deletion, copy, condition renaming, and condition delay can be set.
- **AFR (D/R):** Sets the rudder angle and curve of all the operation functions. A D/R curve which can be switched with a switch, etc. can also be added.
- **Prog. Mixes:** Program mixing which can be freely customized. Up to 10 mixes can be used for each condition.
- **Sequencer:** Setting the operating timing of the landing gear and gear cover.
- **Fuel Mixture:** Mixing used in needle adjustment of engines which use a fuel mixture control carburetor. [Airplane, helicopter]



Condition Select

Flight conditions addition, deletion, copy, condition renaming, and condition delay can be set. [All model types]

The functions in the Model Menu can be used by switching the settings of up to 8 flight conditions by using the Condition Select function to add flight conditions. Add conditions, as required.

When you do not want to use the Condition Select function, this setting is unnecessary. In this case, use the flight conditions (Condition 1) assigned at initial setting.

- Since switching by stick and lever position, in addition to ordinary toggle switch, is possible as the flight condition selector switch, this function can be linked with other operations.
- A Condition Delay function can be set. Unnecessary fuselage motion generated

when there are sudden changes in the servo positions and when there are variations in the operating time between channels during condition switching can be suppressed. The delay can be set for each channel.

When setting the delay function at the switching destination condition, the related function changes after a delay corresponding to the set amount.

- When multiple conditions are set, their operation priority can be freely changed.
- The condition name can be changed. The selected condition name is displayed on the screen. When a condition has been added, give it a name which can be easily confirmed.

- Touch the [Condition Select] button in the Model Menu to call the setup screen shown below.

• Return to Model Menu (Currently selected condition name)

(Conditions List)

Priority change

1. Touch the condition whose priority you want to change in Conditions List.
2. Change the priority with the priority [Δ] or [▽] button. (The last condition has the highest priority.)

*The initial setting condition cannot be moved. It has the lowest priority.

• Condition delay setting
(For a description of the setting method, see the next page.)

Condition Renaming

1. Select the condition by touching the condition you want to rename in Conditions List.
2. Touch the [Rename] button.
3. Enter the new name from the keyboard which appears on the screen.
4. When the keyboard [Return] key is touched, the new name is registered. (To abort registration, touch the [ESC] key.)

Condition Addition

1. When the [Add] button is touched, the Condition Select screen appears.
2. Select the desired conditions by touching the buttons.
3. Touch the [NULL] button to call the <Switch> screen.
4. Select the switch to be used in condition switching.
5. The "Condition 1" data for the added conditions is copied.

(For a description of the switch selection method, see next page.)

Condition Remove

1. Select the condition by touching the condition you want to reset in Conditions List.
2. Touch the [Remove] button.
3. When the [Yes] button is touched, the condition is reset. (To abort resetting, touch the [No] button.)

Condition Copy

1. Touch the [Copy] button. The Copy screen appears.
2. Select the condition by touching the button of the copy source conditions.
3. Next, select the condition by touching the copy destination condition.
4. Touch the [COPY] button.
5. When the [Yes] button is touched, the data is copied. (To abort copying, touch the [No] button.)

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Condition switch setting and ON/OFF direction switching

*For a description of the selection method, see [Switch Setting Method] at the back of this manual.

- Touch the [Delay] button on the Condition Select screen to call the Condition Delay screen shown below.

• Return to Condition Select screen

(Currently selected condition name)

Condition Delay				Model-1				Normal			
Ch	Function	Delay		Ch	Function	Delay		Ch	Function	Delay	
1	Aileron	0	Gr	7	Governor	0	Gr	13	Auxiliary4	0	Gr
2	Elevator	0	Gr	8	Governor2	0	Gr	14	Auxiliary3	0	Gr
3	Throttle	0	Gr	9	Gyro2(AIL)	0	Gr	15	Auxiliary2	0	Gr
4	Rudder	0	Gr	10	Gyro3(ELE)	0	Gr	16	Auxiliary1	0	Gr
5	Gyro(RUD)	0	Gr	11	Needle	0	Gr				
6	Pitch	0	Gr	12	Auxiliary5	0	Gr				

Condition delay setting

1. Switch to the condition you want to set.
2. Touch the Delay button of the channel you want to set.
3. Use the adjustment buttons to set the delay.
 - Initial value: 0
 - Adjustment range: 0~27 (maximum delay)

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.



AFR (D/R)

The rudder angle and curve of each operation function can be set. A D/R curve which can be switched by switch, etc. can also be added. [All model types]

AFR function is used to adjust the throw and operation curve of the stick, lever, and switch functions (CH1 to CH16) for each flight condition. This is normally used after End Point (ATV) has defined the maximum throw directions (End Point acts on ALL flight condition settings). When mixing is applied from one channel to another channel, both channels can be adjusted at the same time by adjusting the operation rate through the AFR function.

Setting method

- Operation curve adjustment: Six types of curves (linear, EXP1, EXP2, VTR, line and spline) can be selected. A maximum 17 points curve can be used for the line and spline curve types. (Initial setting: 9 points) The number of points can also be increased and decreased and curves from complex curves to simple curves can be used.
- Operation speed adjustment: The operation speed of each function when the function is operated (including at flight condition switching) can be adjusted. The function operates smoothly at a constant speed corresponding to the set speed.

- Touch the [AFR (D/R)] button in the Model Menu to call the setup screen shown below.

(Currently selected rate name: AFR, D/R1~6)

Function selection

1. When the function select button is touched, a selection screen appears.
2. Select the function you want to set at the selection screen.

• Group/single mode switch (Gr./Sngl)
(For more information, see the description at the back of this manual.)

• Return to Model Menu (Currently selected condition name)

(Total number of AFR and D/R curves set in the currently selected condition)

• Servo speed setting
(For a description of the setting method, see the description at the back of this manual.)

• D/R function setting

Screen mode switching

When setting the D/R function, the screen display mode can be changed. Each time the button is touched, the mode is switched.

*[Sngl] (initial setting): Only the currently operating curve is displayed.

*The AFR and D/R curves set at the currently operating condition are displayed.

*[All Cond.]: The AFR curve set at all conditions is displayed.

*[Selected AFR]: The selected function is displayed.

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Dual Rate setting

Up to six dual rates can be set for each condition.

*D/R (Dual Rate) is set for each condition, and is not reflected at other conditions.

*D/R (Dual Rate) at the top of the D/R list has priority.

Setting method

- Touch the [D/R] button from the AFR (D/R) screen of the function (ailerons, elevators, etc.) whose dual rate you want to set. The D/R list screen shown below is displayed. Touch the (function) button of the dual rate number to be assigned. That rate is automatically assigned to that function.
- Next, select the switch and its ON/OFF directions.

Close

- At the end of each setting, touch the [Close] button.

Start D/R1

- To start D/R1, touch the [INH] button.

Function change

- When the aileron button is touched, the system asks for a [Yes] or [No]. To change the function, switch to the function selected at the AFR screen by answering [Yes].

Naming D/R1

1. To name D/R1, touch the [D/R1] button. A keyboard appears on the screen.
2. Enter the desired name from this keyboard and register it by touching the keyboard [Return] key. To cancel input and close the screen, touch the [ESC] key.

Switch setting

1. Touch the [NULL] button. The <Switch> screen appears.
2. Select (confirm) the switch and its ON direction.

Setting example

- Rudder ON/OFF by switch. When D/R is used by using the condition with the same switch, another rudder angle can be set.

Since the functions shown below are used in special types of setups, AFR (D/R) cannot be chosen.

- *Aileron2, Aileron3, Aileron4
- *Flap2, Flap4
- *Rudder 2
- Throttle (Only helicopter)
- Pitch
- Camber
- Gyro (RUD), Gyro2 (AIL), Gyro3 (ELE)
- Governor
- Mixture
- *Elevator2
- Butterfly

*AFR (D/R) can be set up according to a wing type.



Prog. Mixes

Program mixing which can be freely customized. Up to 10 mixings can be used for each condition. [All model types]

Programmable mixing may be used to correct undesired tendencies of the aircraft, and it may also be used for unusual control configurations. Mixing means that the motion of a command channel, called the "master," is added to the motion of the mixed channel, called "slave."

You may choose to have the Masters trim added to the Slave channel response, if you desire ("Trim" setting). The mixing curve can be changed so that the undesired tendencies can be corrected effectively by setting the LINEAR1/LINEAR2/EXP1/EXP2/VTR/LINE/SPLINE modes. The Delay function can be programmed for each rate. The Delay is used to change the rate smoothly when switching. You may define Mixing ON/OFF switch, control or you may choose to have mixing on all the time.

Offset-type mixing applies a fixed offset or preset to the programmed channel servo operation and may control up to four circuits simultaneously.

The Programmable mixing includes a powerful link function, which allows Programmable mixing to be linked with the special mixing functions, or with other programmable mixing functions. The link function can be set up for Master and Slave channel individually.

The slave channel AFR mode (STK-STK mode) may be selected, where the slave channel AFR and D/R settings are observed when Link function is set. The knob for fine tuning can be set up for every mixing circuit. (Fine tune function)

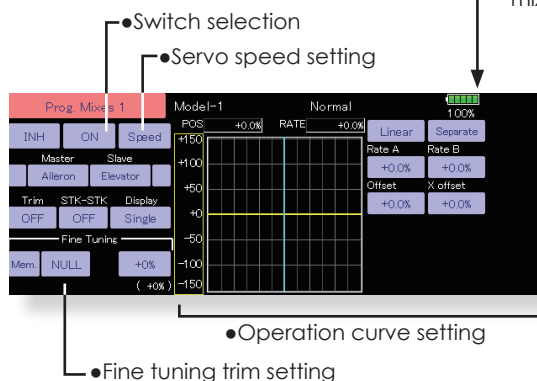
- Touch the [Prog. Mixes] button in the Model Menu to call the setup screen shown below.



Mixing buttons

After this function is activated, the master and slave function names (or offset mixing) are displayed.

- Group/single mode switching (Gr./Sngl)
(For more information, see the description at the back of this manual.)
- Mixing mode change button



- Fine tuning trim setting

- Operation curve setting

(Curve-type mixing)

(Offset-type mixing)

(Timer mode)



(Normal mode)

Timer mode

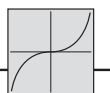
The on time (start/stop time) can be set up to 35 seconds. It is useful for landing gear control of the jet or scale plane, etc.

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Setting methods Curve mixing



●Group/single mode selection

Activating functions for only the selected conditions:

1. Touch the Group button and switch to the Sngl mode.

*Each time the button is touched, it toggles between the Gr. and Sngl modes.

●Mixing setup screen selection

1. Touch the button of the mixing you want to set. The mixing setup screen is displayed. Activate the function.
2. Activate the function by touching the [INH] button.

*Each time this button is touched, it toggles between [INH] and [ON/OFF].

●Mixing ON/OFF switch setting and ON/OFF direction switching

*An ON/OFF switch is not set even when the function is activated.

1. When you want to turn mixing ON/OFF by switch, touch the [NULL] button to call the <Switch> screen and then select the switch and its ON direction.

*For a description of the selection method, see [Switch Setting Method] at the back of this manual.

●Master channel setting

1. Touch the Master button to call the Function menu and select the master channel.
2. To link this mixing with other mixing, touch the button at the left of the master channel and select link.

*Each time the button is touched, it toggles between mixing direction +, - and "No display" (no link).

*Master channel control can be set to stick, VR, and other simple travels which do not include ATV, AFR, D/R, mixing setting, etc. In this case, display the <Switch> screen by touching the [H/W] button and then select master channel side control.

●Slave channel setting

1. Touch the Slave button to call the Function menu and select the slave channel.
2. To link this mixing with other mixing, touch the button at the right-hand side of the slave channel and select link.

*Each time the button is pressed, it toggles between mixing direction + and - and "No display" (no link).

●Trim mode ON/OFF setting

1. To turn the trim mode ON/OFF, touch the Trim button on the screen.

*When mixing includes master side trim, set the Trim button to [ON]. When mixing does not include master side trim, set the Trim button to [OFF].

*Each time this button is pressed, it toggles between [ON] and [OFF].

*This is effective when the master channel is set by Function.

●Slave channel AFR mode (STK→STK)

1. When Link is set at the slave side, and you want to add AFR (D/R) to the mixing rate, select [ON]. When you do not want to add AFR (D/R) to the mixing rate, select [OFF].

*Each time this button is pressed, it toggles between [ON] and [OFF].

*This is effective when making corrections when the fuselage is the same but the rudder angles are substantially different.

●Mixing curve type selection

1. Touch the curve type selection button of the curve type you want to use to display the selection screen and then select the curve you want to use.

*For a description of the curve setting method, see the description at the back of this manual.

●Fine tuning trim setting

1. When using the curve fine tuning function, touch the [NULL] button of the Fine Tuning item to call the <Switch> screen and then select the lever, VR, etc. you want to use.

*For a description of the fine tuning trim setting method, see the description at the back of this manual.

●Servo speed setting

1. When setting the servo speed, touch the Speed button. The Servo Speed setup screen is displayed.

*For a description of the servo speed setting method, see the description at the back of this manual.

*Offset mixing changes the speed. Use the Speed In and Speed Out buttons to readjust the speed.

The mixing switch can set a delay with a different rate at starting and stopping.

*This function is inactive when a mixing switch is not set.

- The programmable mixing (in mixing mode) STK to STK mixing function can be used even when the Master function is controlled by a stick or other hardware.

Setting methods : Offset mixing

•Group/single mode selection

Activating functions for only the selected conditions:

1. Touch the Group button and switch to the Sngl mode.

*Each time the button is touched, it toggles between the Gr. and Sngl modes.

•Mixing mode selection

Using the offset mode:

1. Touch the Mode button and switch to the Offset mode.

*Each time the button is touched, it toggles between the Mix and Offset modes.



•Mixing setup screen selection

1. Touch the button of the mixing you want to set. The mixing setup screen is displayed. Activate the function.

2. Activate the function by touching the [INH] button.

*Each time this button is touched, it toggles between [INH] and [ON/OFF].

•Mixing ON/OFF switch setting and ON/OFF direction switching

*An ON/OFF switch is not set even when the function is activated.

1. When you want to turn mixing ON/OFF by switch, touch the [NULL] button to call the <Switch> screen and then select the switch and its ON direction.

*For a description of the selection method, see [Switch Setting Method] at the back of this manual.

•Slave channel setting

1. Touch the Slave button to call the Function menu and select the slave channel.

•Fine tuning trim setting

1. When using the fine tuning function, touch the [H/W:NULL] button of the Fine Tuning item to call the <Switch> screen and then select the lever, VR, etc. you want to use.

*For a description of the fine tuning trim setting method, see the description at the back of this manual.

•Servo speed setting

1. When setting the servo speed, touch the Speed button. The Servo Speed setup screen is displayed.

*For a description of the servo speed setting method, see the description at the back of this manual.

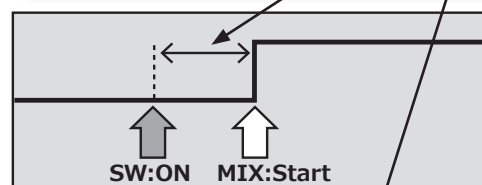
*Offset mixing changes the speed. Use the Speed In and Speed Out buttons to readjust the speed.

The mixing switch can set a delay with a different rate at starting and stopping.

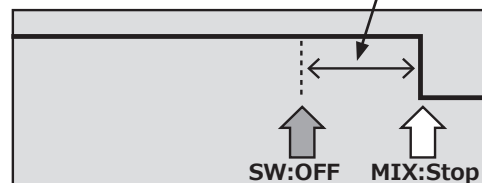
*This function is inactive when a mixing switch is not set.

•Delay selection

Using the normal mode:



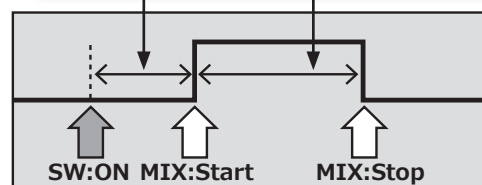
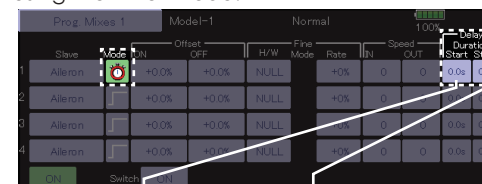
(S) →



(S) →

•Delay selection

Using the timer mode:



(S) →

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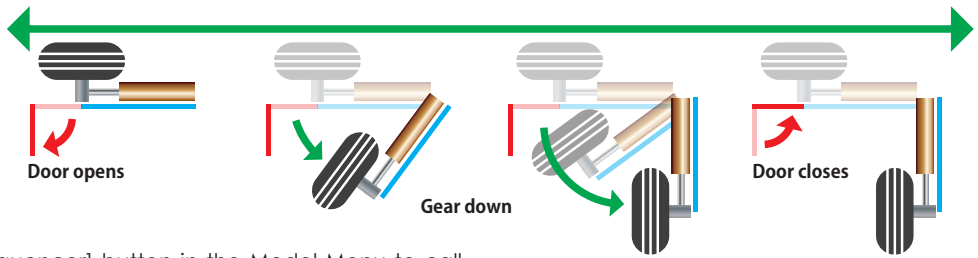
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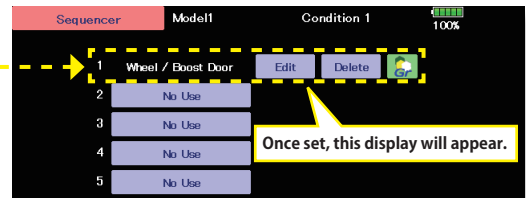
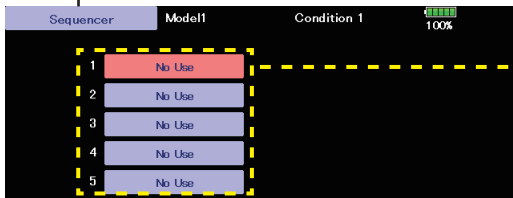
Sequencer

Setting the operating timing of the landing gear and door (gear cover). [All model types]

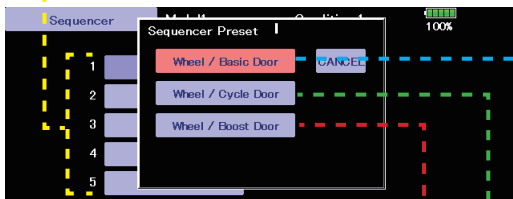


- Touch the [Sequencer] button in the Model Menu to call the setup screen shown below.

• Return to Model Menu



Five sequencers can be set.



The sequencer has three settings to choose from.

● Wheel/Basic Door

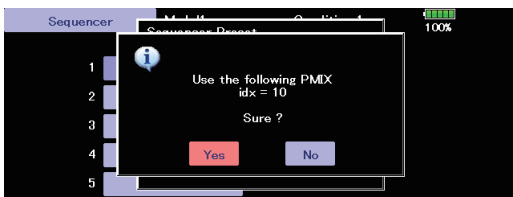
1. Gear down after a set time after the door opens.
2. The door closes after a set time after gearing up.

● Wheel/Cycle Door

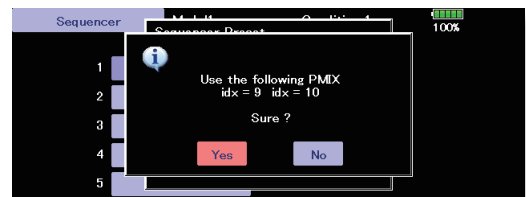
1. Gear down after a set time after the door opens.
2. Door closes after a set time after gear down.
3. Gear up after a set time after the door opens.
4. The door closes after the set time after gearing up.

● Wheel/Boost Door

1. Gear down after a set time after the door opens.
2. Door closes after a set time after gear down.
3. Close the door strongly for the set time.
4. Gear up after a set time after the door opens.
5. The door closes after the set time after gearing up.
6. Close the door strongly for the set time.



- The sequencer automatically uses program mixing when configured. Use the unused program mixing rear number (idx=xx). This confirmation screen will appear, so tap "Yes" to enable the settings.



- Wheel/Cycle door and Wheel/Boost Door use two systems of program mixing.

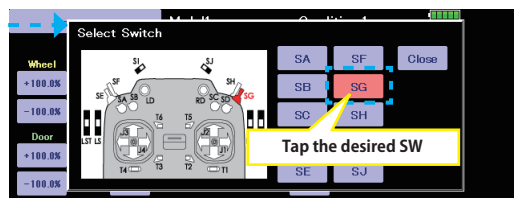
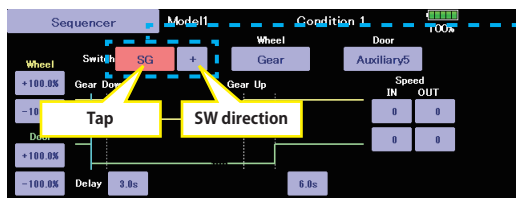
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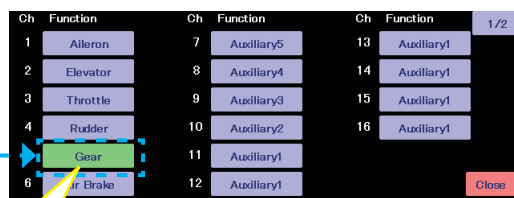
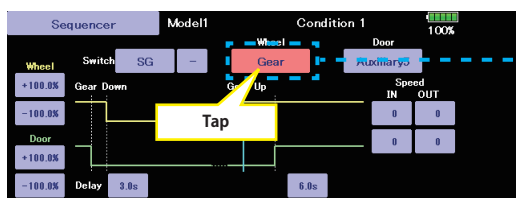
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Wheel/Basic Door

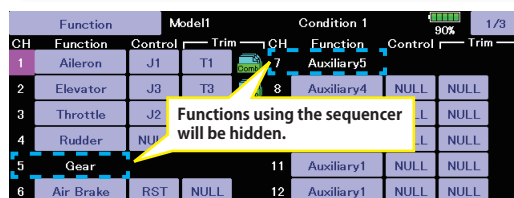
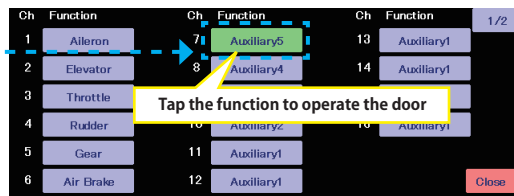
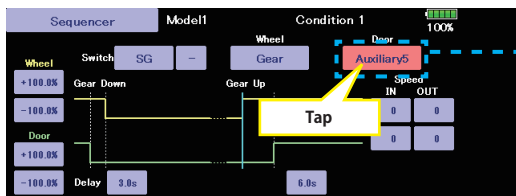
1. Select the switch to operate.



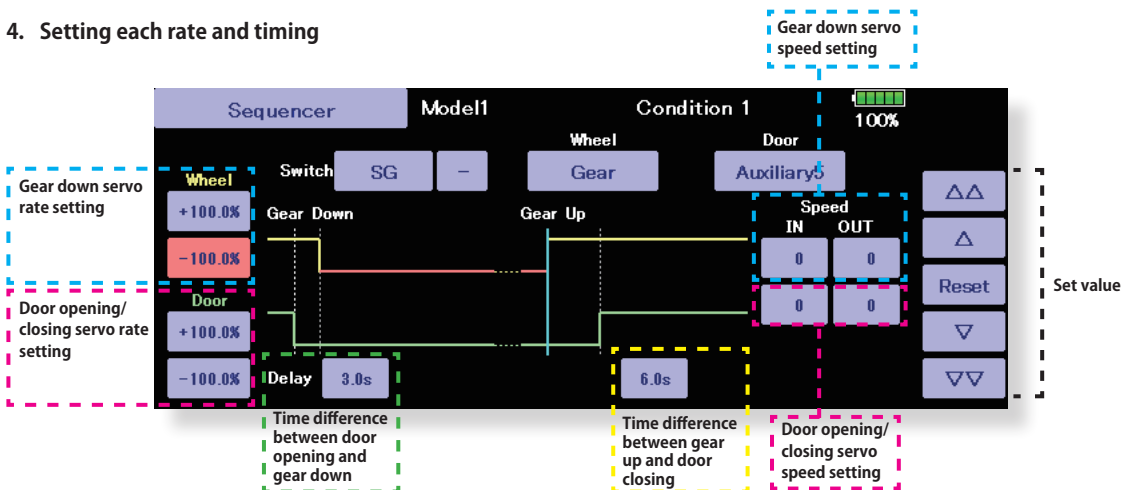
2. Select gear operation output function.



3. Select door operation output function.

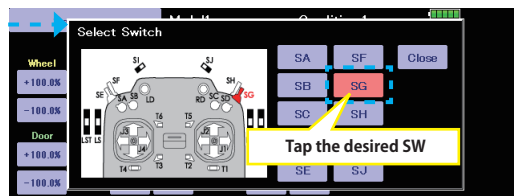
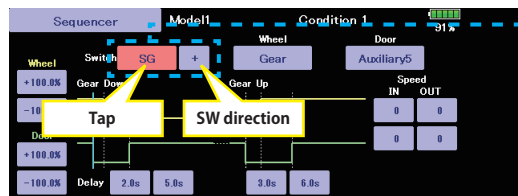


4. Setting each rate and timing

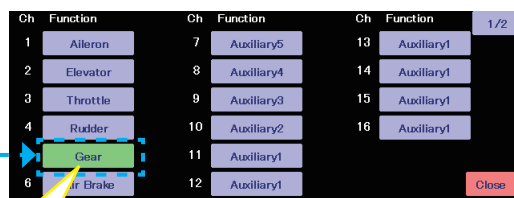
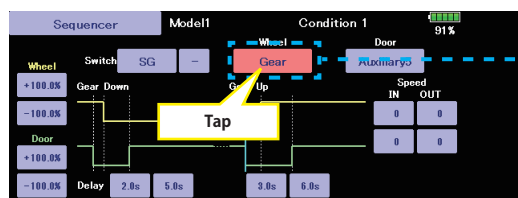


Wheel/Cycle Door

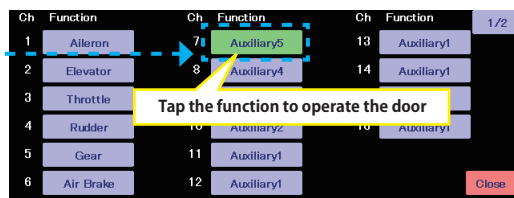
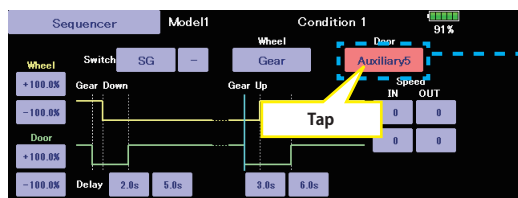
1. Select the switch to operate.



2. Select gear operation output function.



3. Select door operation output function.



4. Setting each rate and timing

Gear down servo speed setting

Gear down servo rate setting

Door opening/closing servo rate setting

Door opening/closing servo speed setting

Time difference between door opening and gear down

Time difference between gear down and door closing

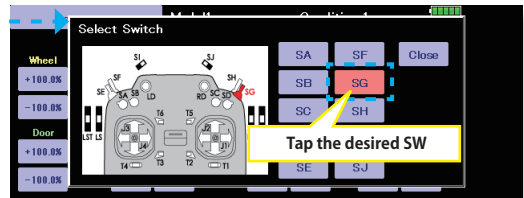
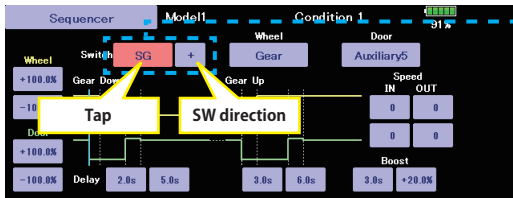
Time difference from door opening to gear up

Time difference between gear up and door closing

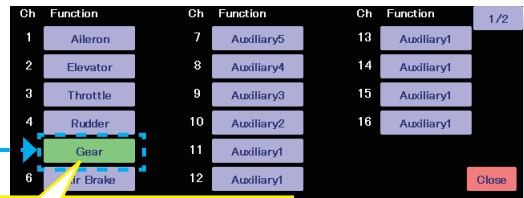
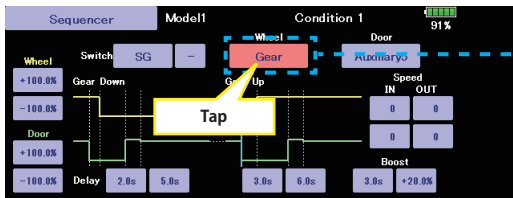
Set value

Wheel/Boost Door

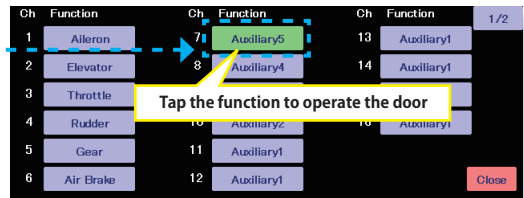
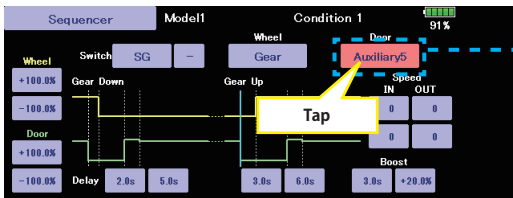
1. Select the switch to operate.



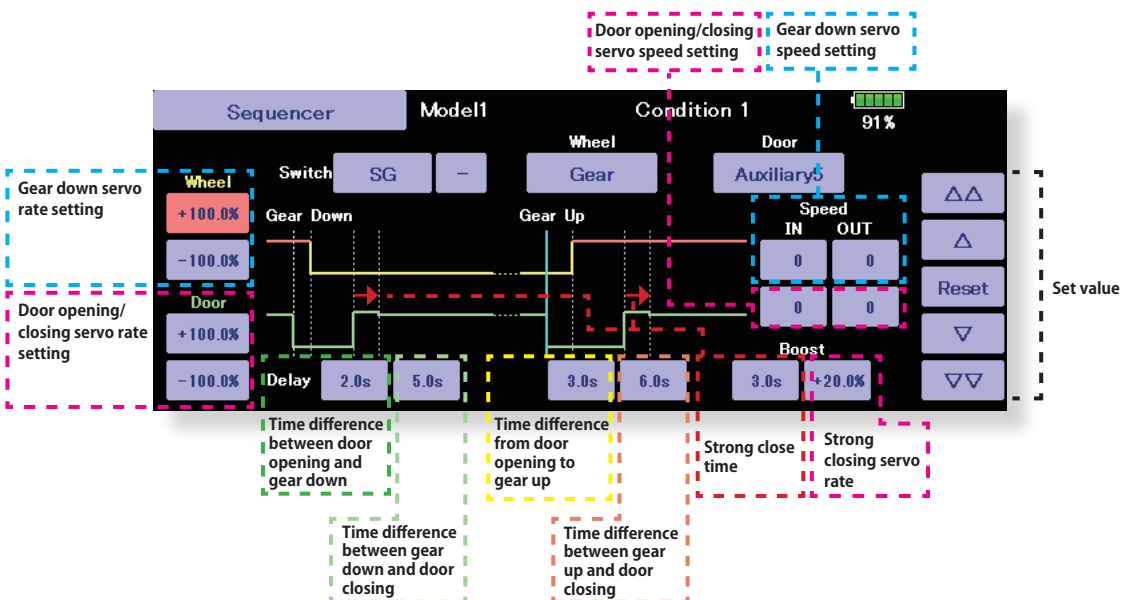
2. Select gear operation output function.



3. Select door operation output function.



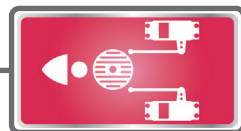
4. Setting each rate and timing



AIRPLANE

GLIDER

HELICOPTER



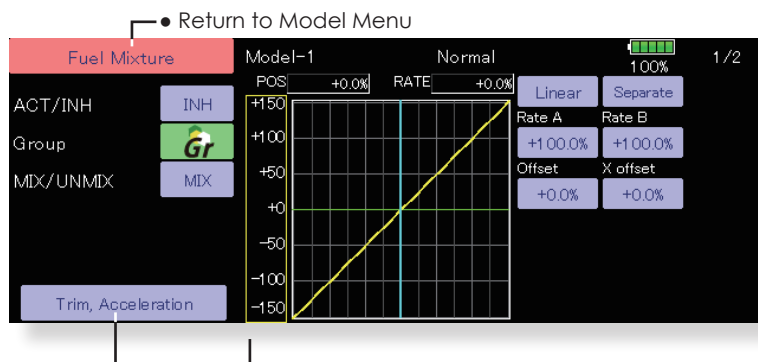
Fuel Mixture

Dedicated mixing used in needle adjustment of engines which use a fuel mixture control carburetor. [Airplane, helicopter]

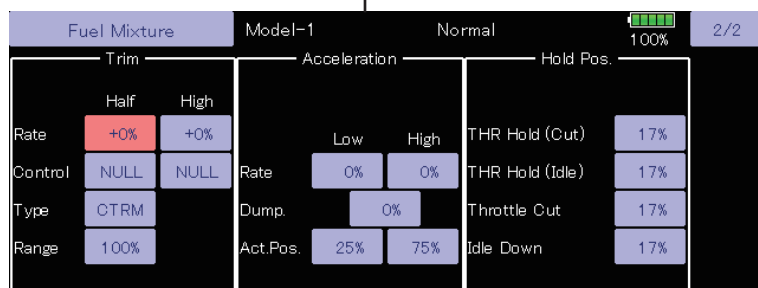
This function is dedicated mixing used in needle adjustment of an engine that uses a fuel mixture control carburetor.

*The needle channel is assigned to CH9 as a default.

- Touch the [Fuel Mixture] button in the Model Menu to call the setup screen shown below.



- Operation curve setting
(For a description of the setting method, see the description at the back of this manual.)



Setting method

CTRM mode: Maximum change near center by center trim operation (Does not change at end of the stick movement) When the adjustment range (Range) value is made small, trim is active only near the center.

NORM mode: Normal trim (linear) operation. When the adjustment range value is decreased, trim is active only near the center. Needle high trim works as high trim based on the center. This operation is similar to reverse ATL trim.

1. An acceleration function can be set. This is used when the mixture is either too rich or too lean, which can be caused by sudden operation of the throttle stick.
2. The return time after operation (Dump) can be set for both settings (Acceleration-High).

3. A needle throttle cut function can be set.
4. This operation can be linked with the throttle hold functions (Cut and Idle), Throttle Cut function, and Idle Down.
5. The needle side cut position can be set. Set it to the fuel side full open position.
When **MIX** mode is selected, the throttle curve setting becomes the master.
In the **UNMIX** mode, the throttle stick position becomes the master.