

**Source:** To enable vario, set "VSpd" as the source on the main telemetry page under the "Variometer" heading.

**Range:** Sets the maximum expected sink rate (-17 to -3, default -10m/s) and the maximum rate of climb (3 to 17 and defaults to 10m/s) for the sounds generated by the Vario custom function.

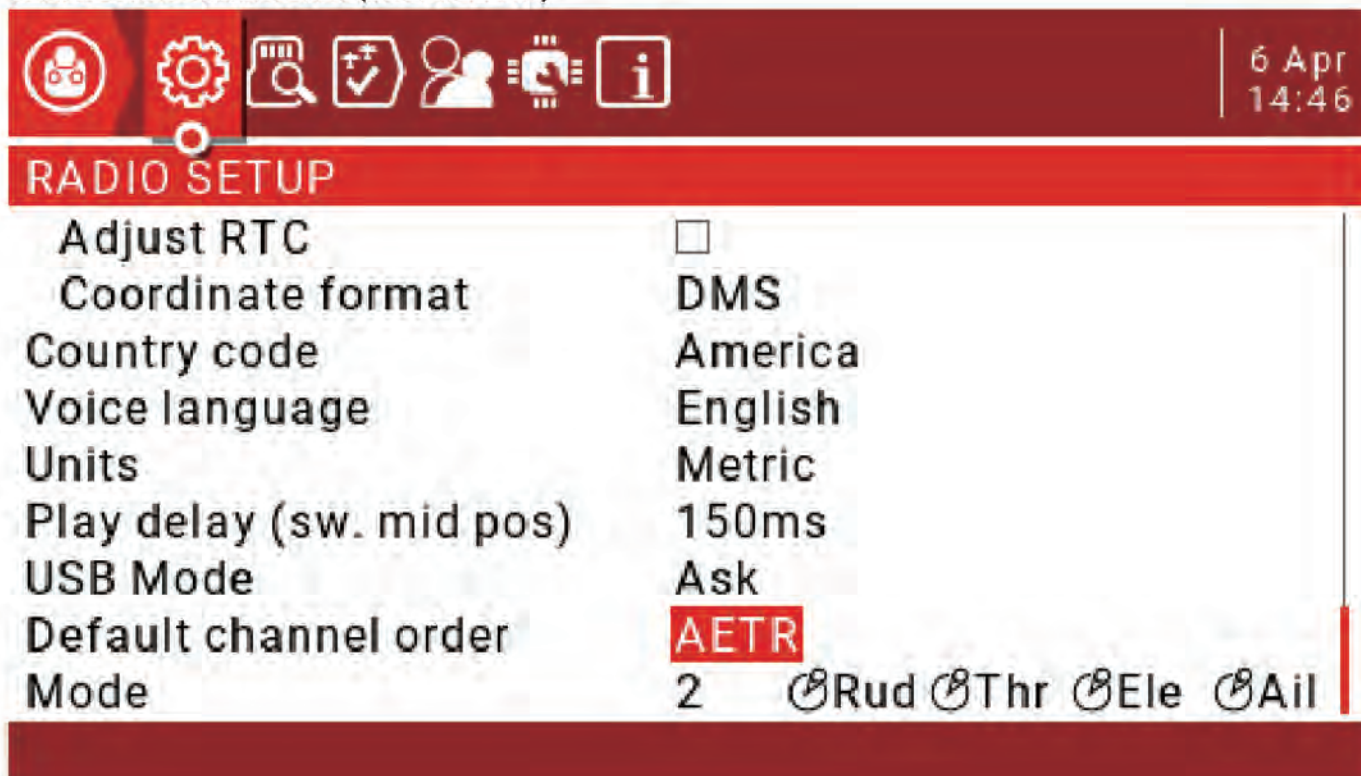
**Center:** Sets the sink/climb rate limit for the center "dead zone" (-2.1 to 0.5, default - 0.5 and -0.5 to 2.0, default is 0.5m/s). Replace "Tone" with "Silent" to turn off the tone in the center range.

If you want to use the switch to open and close vario as shown below.

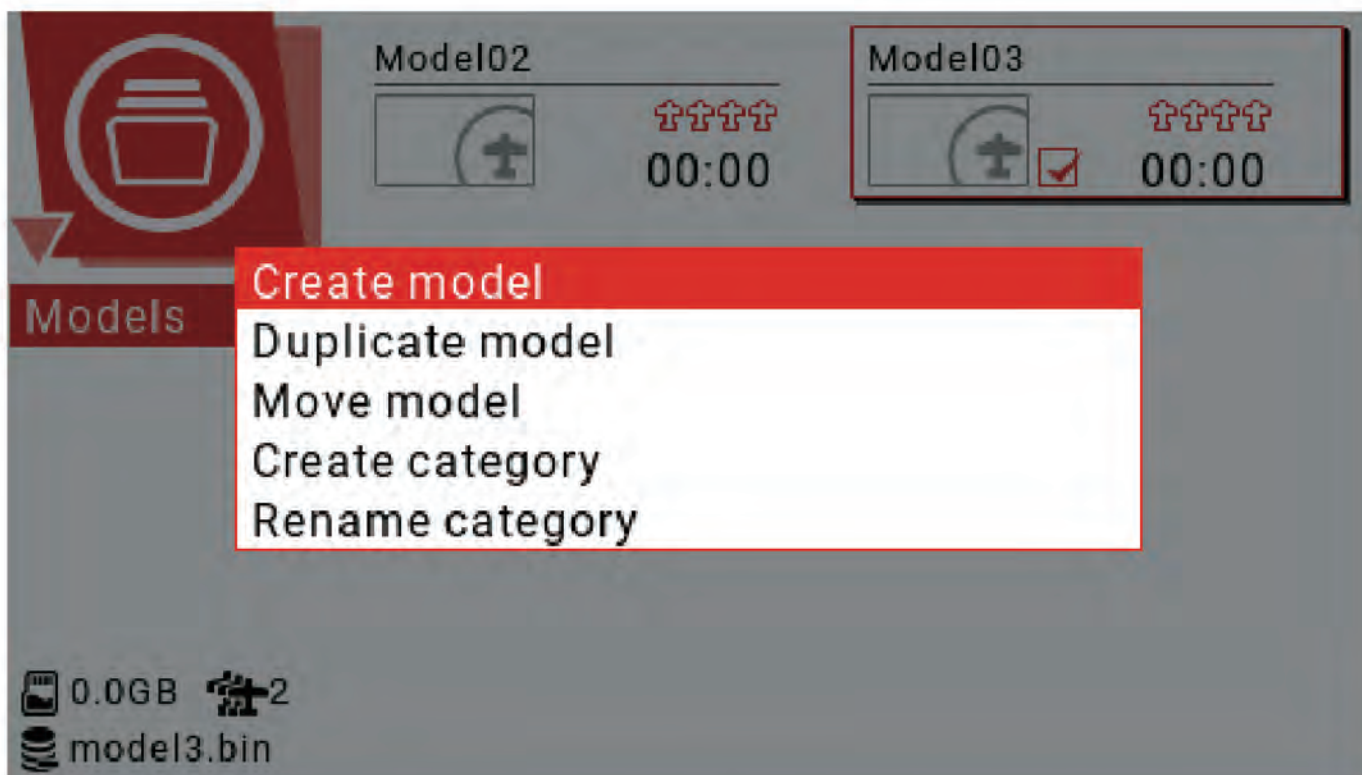
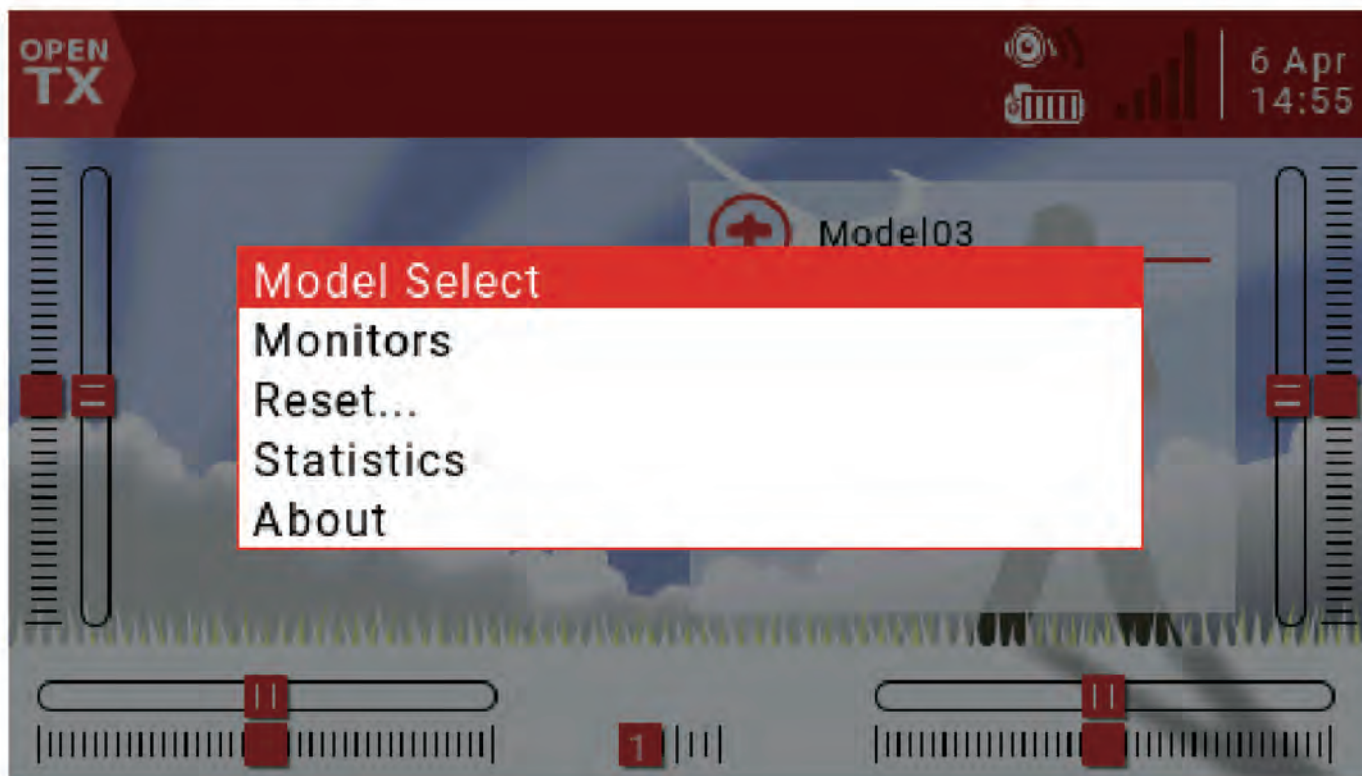


## 4.7. Simple delta wing setup example

1. First set the channel order (listed as AETR)



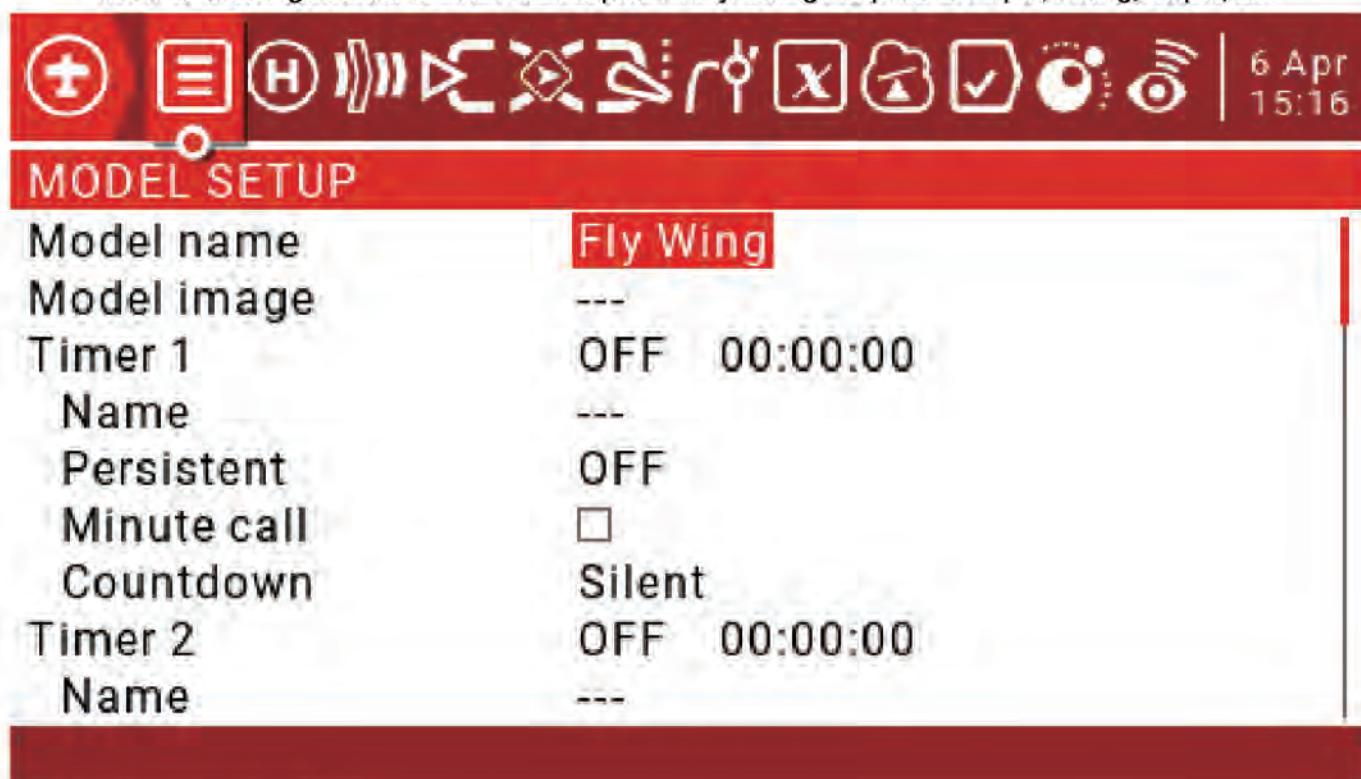
2. Create a new, blank model :



Select new model, press RTN key exit wizard in the new model wizard interface that pops up.

### 3. Model settings:

The model settings section contains all the preliminary settings required for input, mixing, output, etc.



Model name	Fly Wing
Model image	---
Timer 1	OFF 00:00:00
Name	---
Persistent	OFF
Minute call	<input type="checkbox"/>
Countdown	Silent
Timer 2	OFF 00:00:00
Name	---

**Model name:** User choice

**Timers:** Set a timer (e.g. push the throttle to start the timing, and stop the time when the throttle is pressed).

**Source:** Set THs here

**Name:** The name of the timer.

**Persistent:** The value of the timer is not stored when you typically shut down or switch models, so the default value, OFF, is used here.

#### Inputs/Mixer/Outputs:

Determine the desired output (rudder/channel).

Determine the physical input to use (rocker, knob, slider).

Identify and configure the logical input channel that the physical input will map to.

Determines the interaction between the input and the channel.

Convert channel to a mixed definition.

Configure the output.

4 . Identify the required rudder/channel :

With 32 output channels available, you are completely free to assign channels. Typically, the channel with the smallest number is assigned to the rudder because the channel number maps directly to the channel in the receiver.

CH1:Left lift.

CH2:Right lift.

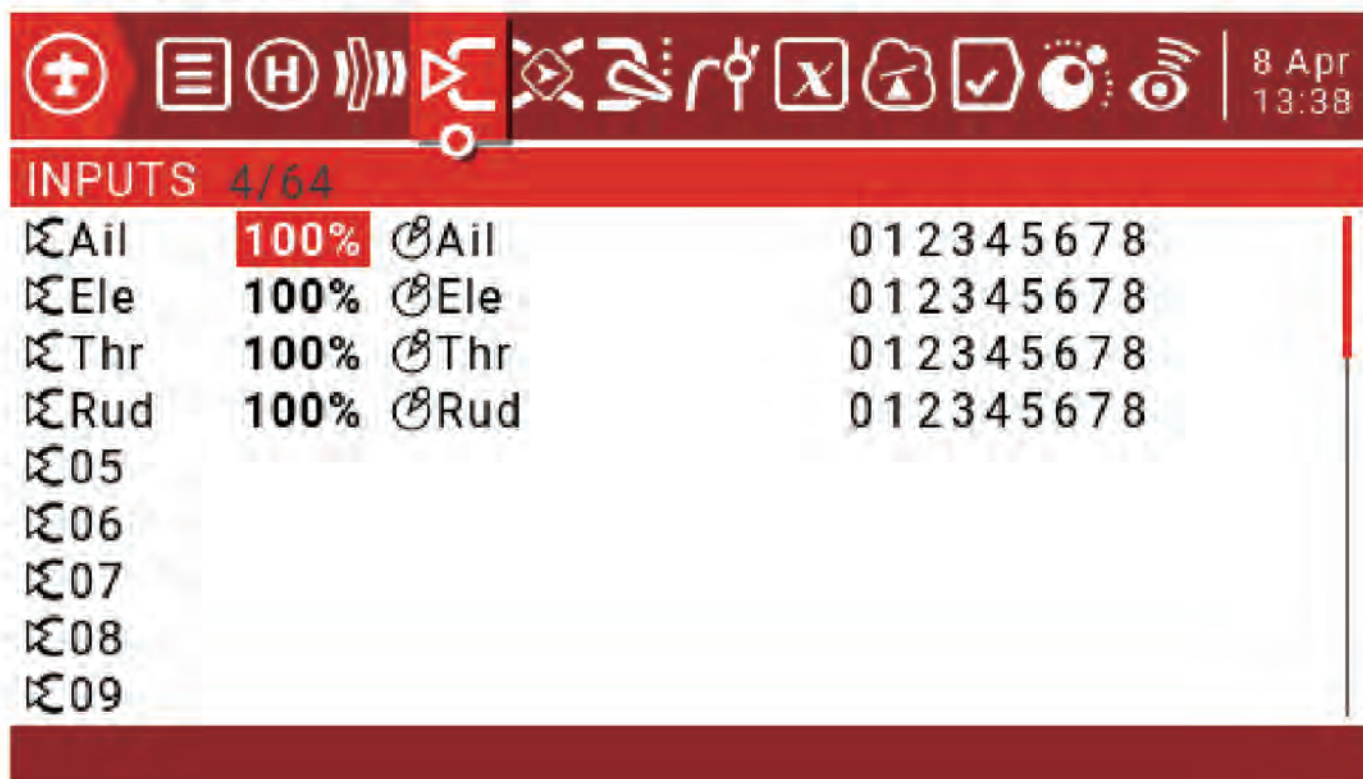
5. Determine the physical input to use (rocker, knob, slider) :

Ail switch: aileron.

Ele switch: Elevator.

6.Programming input :

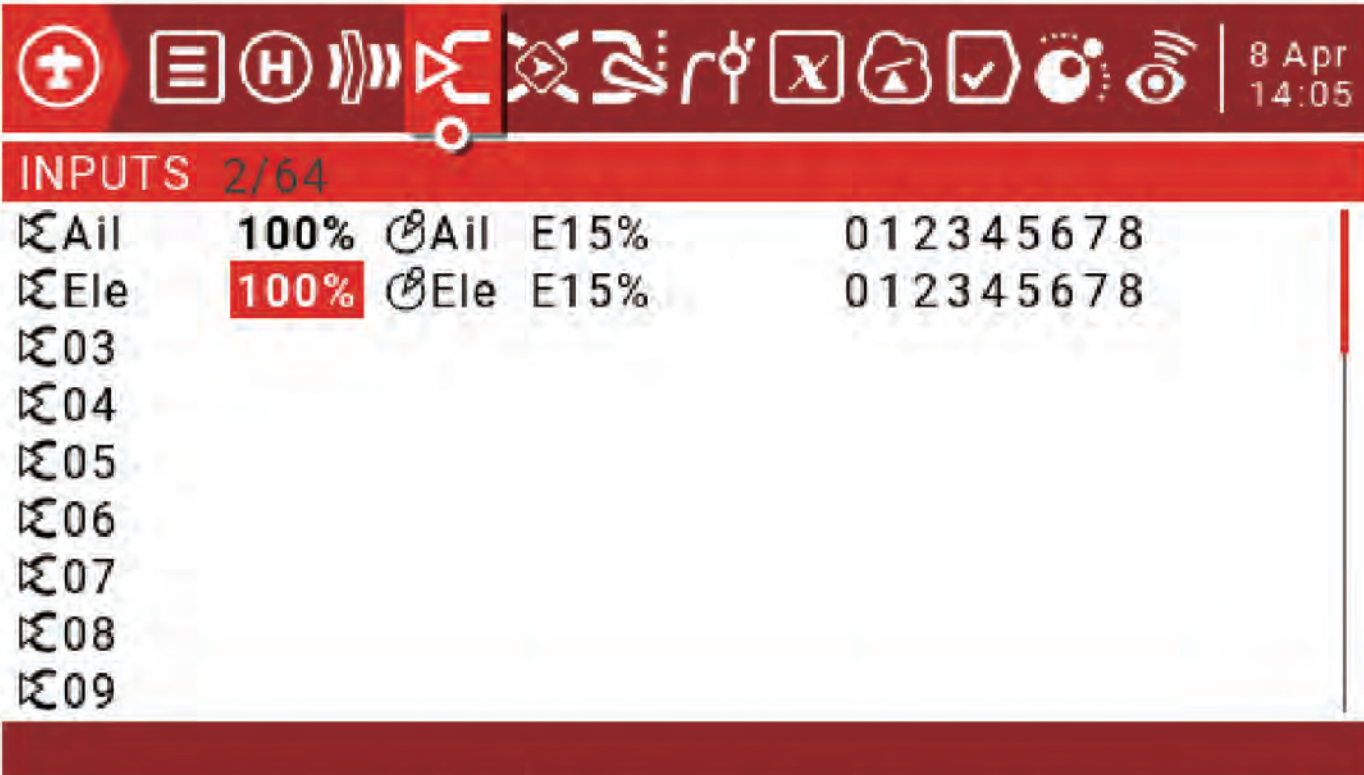
Go to the Inputs page.



Since we only need two aileron and ELE inputs, we can delete the other two. Select the option you want to remove, long and hold the ENT key to pop up the edit window, then select the Delete option and press ENT.



Move the cursor to Ail, press and hold ENT to enter the edit pop-up window, then select the Edit option and press ENT. We use a 15% Expo curve to ease the response around the neutral point (this can be adjusted to your preferences)



You can insert a new input line by moving the cursor to the input you want to add, and then pop up the edit menu by pressing and pressing the ENT key.

Select Insert Before to insert a new line before the current input line.

You can set a switch to switch different rudder amounts.

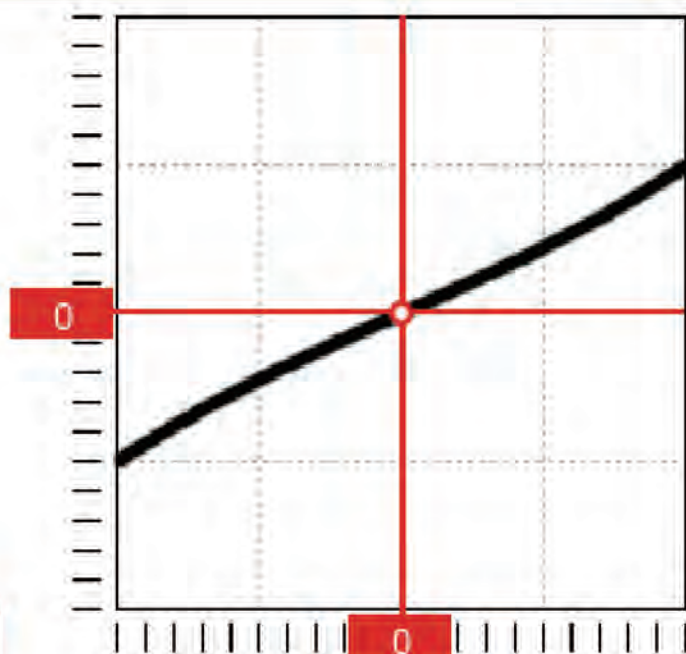


# INPUTS

Ail

8 Apr  
14:22

Input name Ail  
 Line name AilLo  
 Source Ail  
 Weight 50%  
 Offset 0%  
 Curve Expo 15%  
 Modes 0 1 2 3 4 5 6 7 8  
 Switch SA ↑  
 Side ---  
 Trim ON



8 Apr  
14:53

## INPUTS 6/64

Ail	50%	Ail	E15%	SA ↑	0 1 2 3 4 5 6 7 8	AilLo
	75%	Ail	E15%	SA -	0 1 2 3 4 5 6 7 8	AilMed
	<b>100%</b>	Ail	E15%		0 1 2 3 4 5 6 7 8	AilHi
Ele	50%	Ele	E15%	SA ↑	0 1 2 3 4 5 6 7 8	EleLo
	75%	Ele	E15%	SA -	0 1 2 3 4 5 6 7 8	EleMed
	<b>100%</b>	Ele	E15%		0 1 2 3 4 5 6 7 8	EleHi
03						
04						
05						

Only one input row is active at a time. If the switch SA fails, the last line becomes True, which may not be the case if the Aile Hi and Elev Hi switch positions are set to SA.

### 7. Determine the interaction between the input and the channel:

For example, CH1 left lift or CH2 Right lift.

### 8. Convert interactions to mixed-control definitions:

CH1, CH2 will have two mixed controls, sourced "Ail" and "Ele" inputs.

**MIXER 4/64**

CH1	100%	Ail
	50%	Ele
CH2	-100%	Ail
	50%	Ele
CH3		
CH4		
CH5		
CH6		
CH7		

CH2 [Slider]

### 9. Configure the output:

The next step is to adapt the pure logical output of the mixing phase to the mechanical characteristics of the model.

The minimum and maximum travel outputs can be configured here, channel reversals, and shifts to the center point of the rudder can be adjusted using the PPM center adjustment, or offsets can be added using sub-trim .

**OUTPUTS**

CH1	---	0.0 -100.0 - 100.0	→	---	1500	Δ
CH2	---	0.0 -100.0 - 100.0	→	---	1500	Δ
CH3	---	0.0 -100.0 - 100.0	→	---	1500	Δ
CH4	---	0.0 -100.0 - 100.0	→	---	1500	Δ
CH5	---	0.0 -100.0 - 100.0	→	---	1500	Δ
CH6	---	0.0 -100.0 - 100.0	→	---	1500	Δ
CH7	---	0.0 -100.0 - 100.0	→	---	1500	Δ
CH8	---	0.0 -100.0 - 100.0	→	---	1500	Δ
CH9	---	0.0 -100.0 - 100.0	→	---	1500	Δ

Introduction to global variables:

We can also use global variables to set the value of triangular wing mixing.

**GLOBAL VARIABLES**

GV1	AMx	100	FM0	FM0	FM0	FM0	FM0	FM0	FM0	FM0
GV2	EMx	50	FM0	FM0	FM0	FM0	FM0	FM0	FM0	FM0
GV3		0	FM0	FM0	FM0	FM0	FM0	FM0	FM0	FM0
GV4		0	FM0	FM0	FM0	FM0	FM0	FM0	FM0	FM0
GV5		0	FM0	FM0	FM0	FM0	FM0	FM0	FM0	FM0
GV6		0	FM0	FM0	FM0	FM0	FM0	FM0	FM0	FM0
GV7		0	FM0	FM0	FM0	FM0	FM0	FM0	FM0	FM0
GV8		0	FM0	FM0	FM0	FM0	FM0	FM0	FM0	FM0
GV9		0	FM0	FM0	FM0	FM0	FM0	FM0	FM0	FM0

**MIXER CH1**

Mix name	---	Delay up	0.0
Source	⊗ Ail	Delay dn	0.0
Weight	GV1	Slow up	0.0
Offset	0%	Slow dn	0.0
Trim	▣		
Curve	Diff 0%		
Modes	0 1 2 3 4 5 6 7 8		
Switch	---		
Warning	OFF		
Multiplex	Add		

CH1 CH1



8 Apr 17:07

**MIXER 4/64**

CH1	GV1	⊗Ail
⊕	GV2	⊗Ele
CH2	<b>-GV1</b>	⊗Ail
⊕	GV2	⊗Ele
CH3		
CH4		
CH5		
CH6		
CH7		

CH2 [Slider] [Switch Icon] [Volume Icon] CH2 [Slider]

Add a voice prompt:

You can set the prompt voice to the switch and play it when it is in the set position.

Global features:

8 Apr 17:18

**SPECIAL FUNCTIONS**

SF1	SA↑	Play Track	<b>acro</b>	1x
SF2	---			
SF3	---			
SF4	---			
SF5	---			
SF6	---			
SF7	---			
SF8	---			
SF9	---			

Global features can be used to set standardization features that are available to all models. The following example defines a global feature that uses the left slider LS as volume control, eliminating the need to go to the Radio Setup menu to adjust the volume.

## GLOBAL FUNCTIONS

<b>GF1</b>	<b>ON</b>	Volume	🕒LS	<input type="checkbox"/>
GF2	---			
GF3	---			
GF4	---			
GF5	---			
GF6	---			
GF7	---			
GF8	---			
GF9	---			

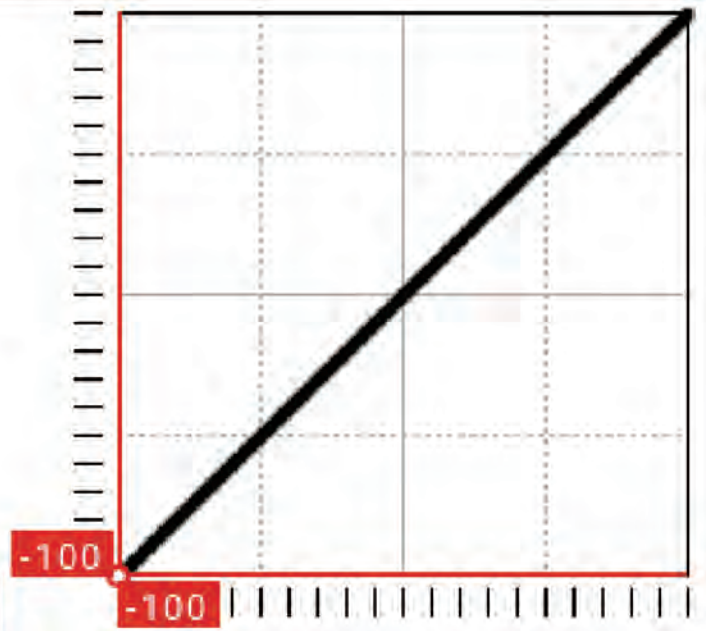
Add a motor channel to the triangular wing:

Add motor input:

To the input page, scroll down to 03, press ENT to call out the edit menu, and then add an input to the motor ESC or throttle rudder.

## INPUTS 8 Apr 18:41

Input name ---  
 Line name ---  
 Source 🕒Thr  
 Weight 100%  
 Offset 0%  
 Curve Expo 0%  
 Modes 0 1 2 3 4 5 6 7 8  
 Switch ---  
 Side ---  
 Trim ON



The ESC expects the full control signal range from -100 to 100, so The Weight and Offset entered by Thr can be left as the default. Press RTN to return (enter) input s lying on the Inputs page .

**INPUTS 7/64**

⊗ Ail	50%	⊗ Ail	E15% SA↑	0 1 2 3 4 5 6 7 8	AilLo
	75%	⊗ Ail	E15% SA-	0 1 2 3 4 5 6 7 8	AilMed
	<b>100%</b>	⊗ Ail	E15%	0 1 2 3 4 5 6 7 8	AilHi
⊗ Ele	50%	⊗ Ele	E15% SA↑	0 1 2 3 4 5 6 7 8	EleLo
	75%	⊗ Ele	E15% SA-	0 1 2 3 4 5 6 7 8	EleMed
	<b>100%</b>	⊗ Ele	E15%	0 1 2 3 4 5 6 7 8	EleHi
⊗ 03	<b>100%</b>	⊗ Thr		0 1 2 3 4 5 6 7 8	
⊗ 04					
⊗ 05					

Configure the MIXER page:

Go to the Mixer page, scroll down to CH3 and press ENT to assign Thr to CH3.

**MIXER CH3** 8 Apr 19:07

Mix name	---	Delay up	0.0
Source	⊗ 03	Delay dn	0.0
Weight	100%	Slow up	0.0
Offset	0%	Slow dn	0.0
Trim	■		
Curve	Diff 0%		
Modes	0 1 2 3 4 5 6 7 8		
Switch	---		
Warning	OFF		
Multiplex	Add		

CH3 -100% CH3 -100%

The Mixer page should appear as follows when the setup is complete.

**MIXER 5/64**

CH1	GV1	⊗Ail
⊕	GV2	⊗Ele
CH2	-GV1	⊗Ail
⊕	GV2	⊗Ele
CH3	<b>100%</b>	⊗03
CH4		
CH5		
CH6		
CH7		

CH3 -100% CH3 -100%

Configure the Outputs page:

Because the settings are depending on the actual characteristics of your model, we cannot provide accurate settings.

**OUTPUTS**

CH1	---	0.0	-100.0	-	100.0	→	---	1500	△
CH2	---	0.0	-100.0	-	100.0	→	---	1500	△
CH3	---	0.0	-100.0	←	100.0	→	---	1500	△
CH4	---	0.0	-100.0	-	100.0	→	---	1500	△
CH5	---	0.0	-100.0	-	100.0	→	---	1500	△
CH6	---	0.0	-100.0	-	100.0	→	---	1500	△
CH7	---	0.0	-100.0	-	100.0	→	---	1500	△
CH8	---	0.0	-100.0	-	100.0	→	---	1500	△
CH9	---	0.0	-100.0	-	100.0	→	---	1500	△

**Set the throttle lock function:**

The throttle locking function can set a switch to cut off the throttle channel to prevent mishandling.

You can set a logic unlock switch to unlock when the unlock conditions are met . .

LOGICAL SWITCHES							Delay
L01	a~x	⊗Thr	-100	SD↑	---	---	
L02	a~x	⊗Ele	-100	L01	---	---	
L03	Stcky	L02	!SD↑	---	---	<b>2.0</b>	
L04	---	---	0	---	---	---	
L05	---	---	0	---	---	---	
L06	---	---	0	---	---	---	
L07	---	---	0	---	---	---	
L08	---	---	0	---	---	---	
L09	---	---	0	---	---	---	

**Minimum TRUE duration for the switch to become ON**

If the throttle switch is very close to -100 and the switch SD is in the "up position", then the L01 becomes true, and if the lift rocker is very close to -100 and the logic switch L01 is true, the L02 becomes true.

If the L02 remains true for at least 2 seconds, the L03 is locked to ON and the L03 is reset when the SD switch is dialed upward.

We can now configure the locking function using the logic switch L03 .

MIXER 6/64		
CH1	<b>GV1</b>	⊗Ail
⊕	<b>GV2</b>	⊗Ele
CH2	<b>-GV1</b>	⊗Ail
⊕	<b>GV2</b>	⊗Ele
CH3	<b>-100%</b>	MAX
⊗	<b>100%</b>	⊗Thr
CH4		
CH5		
CH6		

**⊗ L03**

## Before Use

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

## RF Exposure Information

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.