# F5J - EdgeTX

# **Radiomaster TX16S with ExpressLRS**



EdgeTX v2.9.4 with ExpressLRS 3.3.2

#### **Basic configuration**

SA = Motor: Off - Off - On	This switch arms the motor.
SB = Motor speed: High – Mid – Low	This switch selects between 3 different motor speeds.
SC = Flight Mode: 'DISTANCE' – 'CRUISE' – 'THERMAL'	This switch selects Flight Mode.

## Extended configuration

- SF = When in Thermal, selects between fixed camber ('THERMAL') and variable camber ('THERMAL V')
- LS = Variable camber setting in Flight Mode 'THERMAL V'
- SH = Motor speed: Turbo (spring-loading returning switch)

Adjustable thermal camber.

Turbo is for max motor speed.

SH = Thermal Camber++ (spring-loading returning switch) Extra camber when in Flight Mode 'Cruise/Thermal'.

SD = Flight Mode: 'DISTANCE' or 'SPEED'.

SnapFlap

F5J Time

TX16S models link: X-Tail and V-Tail Email: magnus@maghed.se [2024-May] Latest document version: Link

Magnus Hedlund

# Information

- For EU, use LBT-version with max 100mW output power.
- Set the Transmitter (Tx) Packet Rate to 100Hz Full (8ch) or 333Hz Full (8ch).
- Set the Receiver (Rx) Packet Rate to the same as the transmitter (Tx).
- Rx channel 5 is used for arming the ExpressLRS system. Assign ch9 to be selected for output 5 on the receiver.



- Assing the failsafe to have motor = off !!
   When the receiver (Rx) is powered on and the transmitter (Tx) is off, i.e. no connection, the ExpressLRS system goes into failsafe mode.
- The following receiver outputs (1-6 and 1-8) have been tested for F5J height meter functionality with 'RC Multi 3' (FAI v4.02):





#### • 2024-05-30:

Who should update to ExpressLRS v3.4 or newer: "This release contains critical bugs fixes for PWM and LBT (Regulatory\_Domain\_EU\_CE\_2400) users. These users <u>MUST</u> upgrade." See: <u>ExpressLRS - Releases</u>

See also: Lua Init Rate

#### Links: EdgeTX.org github/EdgeTX ExpressLRS.org ExpressLRS.org/Radiomaster github/ExpressLRS

# Outputs

• In this document the channels are assigned according to the following list:

ch1: Elevator	(or Vtail left)	Output 1
ch2: Rudder	(or Vtail right)	Output 2
ch3: Aileron left		Output 3
ch4: Aileron righ	t	Output 4
ch5: armed		-
ch6: Motor		Output 6
ch7: Flap left		Output 7
ch8: Flap right		Output 8
ch9: Spare		Output 5

# Configurations

#### **Basic**

- Motor, Cruise, Thermal, Distance, Landing
- X-tail or V-tail
- Aileron and Flap
- Motor speed
- Camber settings
- Break (Butterfly)
- Aileron differential
- Aileron to rudder
- Elevator compensation

#### Extended

- Speed, Thermal V
- Motor Turbo speed
- Variable camber settings (Thermal V)
- Camber++
- SnapFlap
- Timer: F5J time
- Timer: Flight time
- Timer: Chronograph (stopwatch)
- Warning: Receiver/Motor battery low
- Telemetry: Receiver quality

(Global Elevator Trim) (Dual Rate)

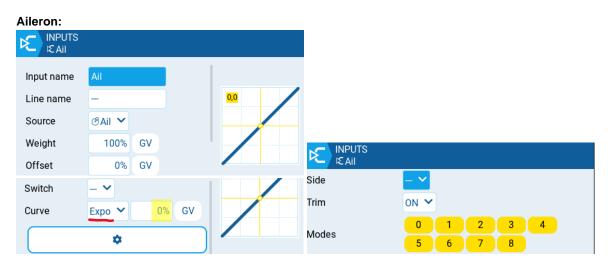
# **BASIC CONFIGURATION**

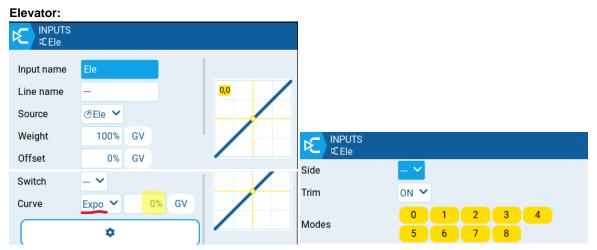
# Preparation

# **INPUTS**

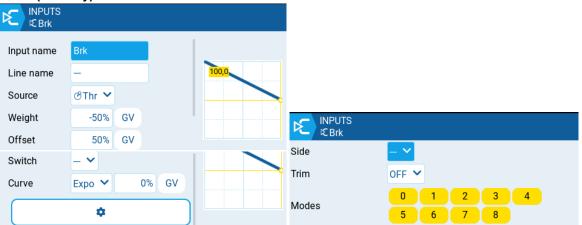
I1:Ail	Ail Weight(+100%)
I2:Ele	Ele Weight(+100%)
I3:Brk	Thr Weight(-50%) No Trim Offset(50%)
I4:Rud	Rud Weight(+100%)

Use Expo where needed (Aileron, Elevator, Rudder).





# Break (Butterfly):



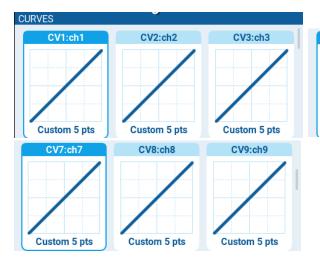
# Rudder:

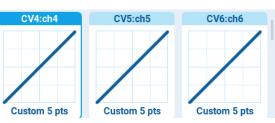
INPUTS E Rud				
Input name	Rud			
Line name	-	0,0		
Source				
Weight	100% GV			
Offset	0% GV		Rud ERud	
Switch	- *		Side	
Curve	Expo 💙 🛛 0% GV		Trim	on 🗸
	\$		Modes	0 1 2 3 4 5 6 7 8

# <u>CURVES</u>

# CV1-CV9 (Output curve):

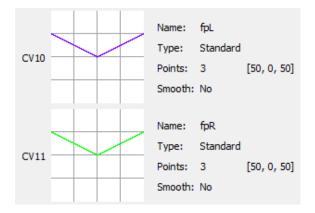
CV1 CV2	Type: Points: Smooth: Name:	No ch2 Custom 5	[(-100, -100), (-50, -50), (0, 0), (50, 50), (100, 100)] [(-100, -100), (-50, -50), (0, 0), (50, 50), (100, 100)]
CV3	Name: Type: Points: Smooth:	5	[(-100, -100), (-50, -50), (0, 0), (50, 50), (100, 100)]
CV4	Name: Type: Points: Smooth:	Custom 5	[(-100, -100), (-50, -50), (0, 0), (50, 50), (100, 100)]
CV5	Type:	5	[(-100, -100), (-50, -50), (0, 0), (50, 50), (100, 100)]
CV6	Type:	5	[(-100, -100), (-50, -50), (0, 0), (50, 50), (100, 100)]
CV7	Type:		[(-100, -100), (-50, -50), (0, 0), (50, 50), (100, 100)]
CV8	Type:	ch8 Custom 5 No	[(-100, -100), (-50, -50), (0, 0), (50, 50), (100, 100)]
CV9	Type:	ch9 Custom 5 No	[(-100, -100), (-50, -50), (0, 0), (50, 50), (100, 100)]

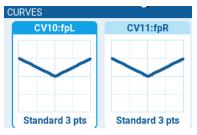




r で CV	irves '1					ſ	°∳ CL C∖	JRVES /9						
Name	ch1		Sr	nooth	0,0	N	ame	ch9		Sr	nooth	<mark>0,0</mark>		/
Туре	Custo	om 🗸		5pts		Ţ	уре	Cust	om 🗸		5pts		1	
1	2	3	4	5			1	2	3	4	5			
X -100	-50	0	50	100		х	-100	-50	0	50	100			
Y -100	-50	0	50	100		Y	-100	-50	0	50	100			

# CV10-CV11 (Flap curve):





イヤ CURVES CV10				イヤ CURVES CV11						
Name	fpL	Smooth 0,0	Name	fpR	Smooth (	0,0				
Type 1 X -100 Y 50	Standard ✓ 2 3 0 100 0 50	3pts	Type 1 X -100 Y 50	Standard ♥ 2 3 0 100 0 50	3pts 😋					

#### CV12 (Motor curve):





## CV13 (Motor to elevator curve):





Na	T CV ame	′13 <mark>m2e</mark>		Sr	nooth	0.2
Ту	ре	Custo	om 🗸		5pts	
	1	2	3	4	5	
х	-100	-50	0	70	100	·
Y	0	0	2	3	3	

# CV14 (Break to elevator curve):



Name:	b2e	
Type:	Custom	
Points:	6	[(-100, 0), (0, 0), (25, 50), (50, 85), (75, 95), (100, 100)]
Smooth:	Yes	



ſ	CURVES CV14										
Na	me	ne b2e Smooth			mooth	0,0		~	~		
Ту	pe	Custo	om 🖌		6pts						
х	-100	0	25	50	75						
Y	0	0	50	85	95						
х	6 100										
Y	100										

## **GLOBAL VARIABLES**

	Name	Value	Unit	Prec	Min	Max	Popu
GVAR1	dif	0%	% ~	0 ~	-1024% 🖨	1024% 韋	
GVAR2	cal	0%	% ~	0 ~	-1024% 🜲	1024% 🗘	
GVAR3	car	0%	% ~	0 ~	-1024% 🜲	1024% 🗘	
GVAR4	cfl	0%	% ~	0 ~	-1024% 🜲	1024% 🗘	
GVAR5	cfr	0%	% ~	0 ~	-1024% 🜲	1024% 🗘	
GVAR6	a2r	0% 🗘	% ~	0 ~	-1024% 🜲	1024% 🗘	
GVAR7	del	0%	% ~	0 ~	-1024% 🜲	1024% 🗘	

GLOBAI	_ VARI	ABLES							
dif	FM0	FM1	FM2	FM3	FM4	FM5	FM6	FM7	FM8
	0%	FM0	FM0	FM4	0%	FM6	0%	FM0	FM0
cal	FM0	FM1	FM2	FM3	FM4	FM5	FM6	FM7	FM8
	0%	FM0	FM0	-10%	-5%	FM6	10%	FM0	FM0
car	FM0	FM1	FM2	FM3	FM4	FM5	FM6	FM7	FM8
	0%	FM0	FM0	-10%	-5%	FM6	10%	FM0	FM0
cfl	FM0	FM1	FM2	FM3	FM4	FM5	FM6	FM7	FM8
	0%	FM0	FM0	-10%	-5%	FM6	10%	FM0	FM0
cfr	FM0	FM1	FM2	FM3	FM4	FM5	FM6	FM7	FM8
	0%	FM0	FM0	-10%	-5%	FM6	10%	FM0	FM0
a2r	FM0	FM1	FM2	FM3	FM4	FM5	FM6	FM7	FM8
	0%	FM0	FM0	FM0	FM0	FM0	FM0	FM0	FM0
del	FM0	FM1	FM2	FM3	FM4	FM5	FM6	FM7	FM8
	0%	FM0	FM0	FM0	FM0	FM0	FM0	FM0	FM0

- dif: Aileron differential
- cal: Aileron (left) camber setting
- car: Aileron (right) camber setting
- cfl: Flap (left) camber setting
- cfr: Flap (right) camber setting
- a2r: Aileron to rudder
- del: Elevator differential

#### V-tail:



dru: Rudder differential

# LOGICAL SWITCHES

#	Function	V1	٧2	AND Switch	Duration	Delay
L01	AND ~	SA↓ ~	v	v	0,0 ÷	0,0
L02	a <x< th=""><th>Thr v</th><th>92 🗘</th><th> ~</th><th>0,0</th><th>0,0</th></x<>	Thr v	92 🗘	~	0,0	0,0
L03	~					
L04	AND ~	SC↑ ~	~	~	0,0	0,0 🜩
L05	~					
L06	AND ~	SC↓ ✓	v	~	0,0 🗘	0,0 ÷

LOGICAL SW	ITCHES		Ŭ.	
L01 AND	SA₽			
L02 a <x< td=""><td>∕®Thr</td><td>92</td><td></td><td></td></x<>	∕®Thr	92		
L04 AND	SC企			
L06 AND	sc₽			

LOGICAL SWITCHES	3	LOGICAL SWITCHES	;
Function	AND 💙	Function	a <x th="" 💙<=""></x>
V1	SA⊕ ✓	V1	⊗Thr ∨
V2	- *	V2	92
AND switch	- *	AND switch	- *
Duration	0.0s	Duration	0.0s
Delay	-	Delay	-
Used for EM1 (MOT)	OR ON)	Lised for EM2 (LAND	ING)

Used for FM1 (MOTOR ON)

Used for FM2 (LANDING)

LOGICAL SWITCHES		LOGICAL SWITCHES	
Function	AND 💙	Function	and 🗸
V1	SCû 💙	V1	sc& 🗸
V2	- •	V2	- 🗸
AND switch	- •	AND switch	- •
Duration	0.0s	Duration	0.0s
Delay	_	Delay	_
Land for ENA (DISTA)		Lload for FMG /TUED	1111

Used for FM4 (DISTANCE)

Used for FM6 (THERMAL)

# FLIGHT MODES

FLIGHT MODES									
FM0 CRUISE		=0 0	=0 0	=0 0	=0 0	=0 0	=0 0	0.0s	0.0s
FM1 MOTOR ON	L01	=0	=1 0	=0	=0	=0	=0	0.0s	0.0s
FM2 LANDING	L02	=0	=2 0	=0	=0	=0	=0	0.4s	0.4s
FM3		=0	=3 0	=0	=0	=0	=0	0.0s	0.0s
FM4 DISTANCE	L04	=0	=4 0	=0	=0	=0	=0	0.0s	0.0s
FM5		=0	=6	=0	=0	=0	=0	0.0s	0.0s
FM6 THERMAL	L06	=0	=6 0	=0	=0	=0	=0	0.0s	0.0s
FM7		=0	=0	=0	=0	=0	=0	0.0s	0.0s
FM8		=0	=0	=0	=0	=0	=0	0.0s	0.0s

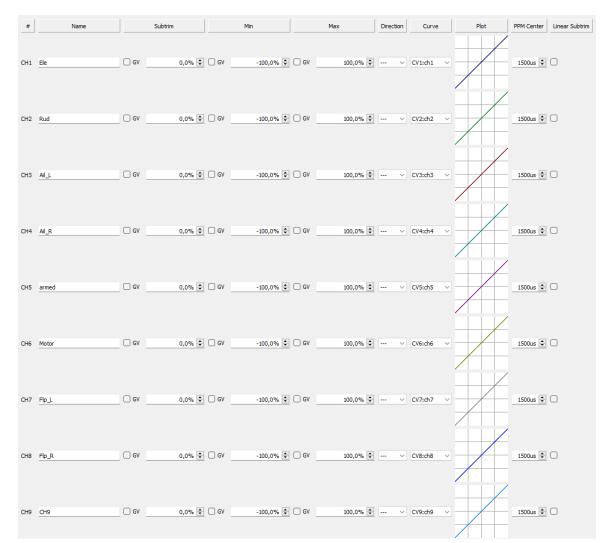
Note: FM3, FM5, FM7, FM8 = Not used.

FLIGHT MODES FM0		FLIGHT MODES	
Name	CRUISE	Name	MOTOR ON
Fade in	0.0	Switch	L01 💙
Fade out	0.0	Fade in	0.0
Trims		Fade out	0.0
<mark>∉Rud</mark> 0	Ele 0	Trims	
<mark>⊜Thr</mark> 0	<mark>₿ Ail</mark> 0	<b>₿ Rud</b> = 0 ∨	₿Ele = 1 💙 0
<b>₿Т</b> 5 0	<mark>₿Т6</mark> 0	🗒 Thr 🛛 = 0 🖍	₿ Ail = 0 🗸
		<b>₫</b> Т5 = 0 🗸	<b>■T6</b> = 0 <b>∨</b>

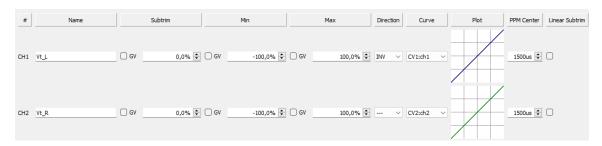
FLIGHT MODES		IIII FLIGHT MODES FM4					
Name	LANDING	Name	DISTANCE				
Switch	L02 💙	Switch	L04 🗸				
Fade in	0.4	Fade in	0.0				
Fade out	0.4	Fade out	0.0				
Trims		Trims					
🛱 Rud = 0 🗸	<b>₿ Ele</b> = 2 ♥ 0	🛱 Rud 😑 0 🖍	₿Ele = 4 🕶 0				
🛱 Thr 🛛 = 0 🖍	₿ Ail = 0 🗸	🛢 Thr 😑 🗸	<b>⊜Ail</b> = 0 ❤				
<b>₿T5</b> = 0 🗸	<b>₿T6</b> = 0 ∨	<b>₿T5</b> = 0 ❤	<b>□</b> T6 = 0 ∨				

FLIGHT MODES FM6	
Name	THERMAL
Switch	L06 💙
Fade in	0.0
Fade out	0.0
Trims	
🛱 Rud = 0 🗸	₿Ele = 6 💙 0
🖶 Thr 😑 🗸	🖨 Ail 🛛 = 0 🖍
₿T5 = 0 🗸	<b>₿ T6</b> = 0 ∨

## **OUTPUTS**



#### V-tail:



# CH1-CH2 for X-tail

Ele	PUTS	CH01 Ele	1500 0% 0%		CH02 Rud 1500 0%
Name	Ele	Subtrim	0.0 GV	Name Rud	Subtrim 0.0 GV
Min	-100.0 GV	Max	100.0 GV	Min -100.0 GV	Max 100.0 GV
Inverted		Curve	ch1	Inverted	Curve ch2
PPM Center	1500	Subtrim mode	$\triangle$ (center only) 🖌	PPM 1500 Center	Subtrim mode △ (center only) ➤

# CH1-CH2 for V-tail

	PUTS		CH01 Vt_L	0% 0%		1500us		PUTS	CH02 Vt_F	0% 0%	1500us
Name	Vt_L		Subtrim	0.0	GV		Name	Vt_R	Subtrim	0.0	GV
Min	-100.0	GV	Max	100.0	GV		Min	-100.0 GV	Max	100.0	GV
Inverted			Curve	ch1			Inverted		Curve	ch2	
PPM Center	1500		Subtrim mode	$\triangle$ (center	only)	~	PPM Center	1500	Subtrim mode	$\triangle$ (center	only) 🗙

#### CH3-CH4 for Aileron

	PUTS		CH03 Ail_L	0% 0%		1500us		PUTS R	CH04 Ail_	R 0% 0%	1500us
Name	Ail_L		Subtrim	0.0	GV		Name	Ail_R	Subtrim	0.0	GV
Min	-100.0	GV	Max	100.0	GV		Min	-100.0 GV	Max	100.0	GV
Inverted			Curve	ch3			Inverted		Curve	ch4	
PPM Center	1500		Subtrim mode	△ (center	only)	~	PPM Center	1500	Subtrim mode	$\triangle$ (center	only) 🗸

# CH5 for armed (used in ExpressLRS system) (Not used as Rx output)

OUT arme	PUTS ed	CH05 arm	2012us	
Name	armed	Subtrim	0.0	GV
Min	-100.0 GV	Max	100.0	GV
Inverted		Curve	ch5	
PPM Center	1500	Subtrim mode	$\triangle$ (center	only) 🗙

# CH6 for Motor

Moto	PUTS or	CH06 Mot	tor -100 -100		Bus
Name	Motor	Subtrim	0.0	GV	
Min	-100.0 GV	Max	100.0	GV	
Inverted		Curve	ch6		
PPM Center	1500	Subtrim mode	△ (center	only) 🗸	

# CH7-CH8 for Flap

	PUTS L	CH07 Flp_	L -60% -60%			rputs _r	CH08 Flp_	R 60% 60%	1807us
Name	Flp_L	Subtrim	0.0	GV	Name	Flp_R	Subtrim	0.0	GV
Min	-100.0 GV	Max	100.0	GV	Min	-100.0 GV	Max	100.0	GV
Inverted		Curve	ch7		Inverted		Curve	ch8	
PPM Center	1500	Subtrim mode	$\triangle$ (center o	only) 💙	PPM Center	1500	Subtrim mode	$\triangle$ (center	only) 🗸

# CH9 (Spare) (Used as Rx Output 5)

	PUTS	CH09 CH9	0% 0%	1500us
Name	CH9	Subtrim	0.0	GV
Min	-100.0 GV	Max	100.0	GV
Inverted		Curve	ch9	
PPM Center	1500	Subtrim mode	$\triangle$ (center o	only) 🗸

#### MIXES

# CH1-CH2 for X-tail

CH1:Ele	<pre>I2:Ele Weight(+50%) Diff(-GV7:del) [Elev] += CH6:Motor Weight(+10%) Flight mode(FM1:MOTOR ON) NoTrim Custom(CV13:m2e) [Motor] += I3:Brk Weight(+10%) Flight mode(FM2:LANDING) NoTrim Custom(CV14:b2e) [Brake]</pre>
CH2:Rud	I4:Rud Weight(+50%) [Rudder] += I1:Ail Weight(+GV6:a2r) NoTrim [Ai2Ru]

Elevator mixes

MIXES Ele

Multiplex

Add 🗸

MIXE	S				
Ele		50%	K⊂Ele	Elev D-del	
	$\oplus$	10%	Motor	Motor m2e	N 012345678
CH1	Ð	10%	€Brk	Brake b2e	N 01 <b>2</b> 345678

Ele	KES		CH0	1 Ele 1500us 0%
Name	Elev			
Source	ÆEle ✔			
Weight	50%	GV	Offset	0% GV
Switch	- 🗸		Curve	Diff 💙 -del 💙 🛛 GV
			٥	

Elevator

Ele	KES	CHO	1 Ele 09 09		150	0us
Name	Motor					
Source	Motor 🖌					
Weight	10% GV	Offset	0%	GV		
Switch	- •	Curve	Cstm 🗸	m2e	~	
		۵				

Modes	0	1 6	2 7	3 8	4		
Trim	$\overline{\mathbf{O}}$		Warn	ing		OFF	
Delay up	0.0s		Delay	down		0.0s	
Slow up	0.0s		Slow	down		0.0s	
MIXES							

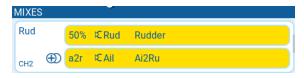
MIXES Ele			
Multiplex	Add 💙		
Modes	0 1	2 3	4
Wodes	5 6	7 8	
Trim		Warning	OFF
Delay up	0.0s	Delay down	0.0s
Slow up	0.0s	Slow down	0.0s

Motor to elevator

Ele	KES	CHO	01 Ele 09 09		150
Name	Brake				
Source	₽£Brk ❤				
Weight	10% GV	Offset	0%	GV	
Switch	- 🗸	Curve	Cstm 🗸	b2e 🗸	
		۵			
		· · ·			

MIXES Ele  $\otimes$ Multiplex Add 🗸 0 1 2 3 4 Modes 5 6 8 7 Trim Warning OFF Delay up 0.0s Delay down 0.0s 0.0s Slow up Slow down 0.0s

Break (Butterfy) to elevator



	KES d	CH02	Rud 0% 0%	1500us
Name	Rudder			
Source	Rud ✔			
Weight	50% GV	Offset	0% GV	
Switch	- •	Curve	Diff 🖌 0%	GV
		٠		

Rudder mixes

MIXES Rud			
Multiplex	Add 💙		
Modes	0	1 2 3 4 6 7 8	4
Trim		Warning	OFF
Delay up	0.0s	Delay down	0.0s
Slow up	0.0s	Slow down	0.0s

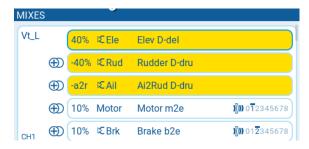
Rudder

X Rue	KES d	CH02	Rud 0%	1500us	MIXES Rud			
Name	Ai2Ru				Multiplex	Add 💙		
Source	I€Ail ❤				Modes	0 1	2 3 4	1
Weight	a2r 🗙 GV	Offset	0% GV		Wodes	56	5 7 8	
Switch	- ~	Curve	Diff 💙 🛛 0%	GV	Trim		Warning	OFF
		•			Delay up	0.0s	Delay down	0.0s
Aileron t	o ruddor	•			Slow up	0.0s	Slow down	0.0s

Aileron to rudder

# CH1-CH2 for V-tail

CH1:Vt_L	<pre>I2:Ele Weight(+40%) Diff(-GV7:del) [Elev] += I4:Rud Weight(-40%) Diff(-GV8:dru) [Rudder] += I1:Ail Weight(-GV6:a2r) NoTrim Diff(-GV8:dru) [Ai2Rud] += CH6:Motor Weight(+10%) Flight mode(FM1:MOTOR ON) NoTrim Custom(CV13:m2e) [Motor] += I3:Brk Weight(+10%) Flight mode(FM2:LANDING) NoTrim Custom(CV14:b2e) [Brake]</pre>
CH2:Vt_R	<pre>I2:Ele Weight(+40%) Diff(-GV7:del) [Elev] += I4:Rud Weight(+40%) Diff(-GV8:dru) [Rudder] += I1:Ail Weight(+GV6:a2r) NoTrim Diff(-GV8:dru) [Ai2Ru] += CH6:Motor Weight(+10%) Flight mode(FM1:MOTOR ON) NoTrim Custom(CV13:m2e) [Motor] += I3:Brk Weight(+10%) Flight mode(FM2:LANDING) NoTrim Custom(CV14:b2e) [Brake]</pre>



#### V-tail Left mixes

X MD Vt_	XES L	сн Г	01 Vt_L 0% 0%	1500us	MIXES Vt_L			
Name	Elev				Multiplex	Add 🗸		
Source	l€Ele ✔				Modes	0	1 2 3 4	4
Weight	40% GV	Offset	0% GV		Modeo	5	6 7 8	
Switch	- ~	Curve	Diff 💙 -del 💙	GV	Trim		Warning	OFF
		٥			Delay up	0.0s	Delay down	0.0s
Flavota	_				Slow up	0.0s	Slow down	0.0s
Elevato	r							

X MIX Vt_	XES L	сно1 Гр	Vt_L 0% 0%	1500us	MIXES Vt_L			
Name	Rudder				Multiplex	Add 🐱		
Source Weight	E Rud ➤ -40% GV	Offset	0% GV		Modes	0 1 5 6	2 3 4 7 8	1
Switch	- •	Curve	Diff 💙 -dru 💙	GV	Trim		Warning	OFF
		•			Delay up	0.0s	Delay down	0.0s
Rudder		*			Slow up	0.0s	Slow down	0.0s

Rudder

X MI	XES L		сно P	01 Vt_L 0% 0%	1500us	X
Name	Ai2Rud					N
Source	I€ Ail ∨					N
Weight	-a2r 🗸	GV	Offset	0% GV		IV
Switch	- 🗸		Curve	Diff 💙 -dru 💙	GV	Т
			•			D
						s

MIXES Vt_L			
Multiplex	Add 🗸		
Modes		1 2 3 4 6 7 8	<b>1</b>
Trim		Warning	OFF
Delay up	0.0s	Delay down	0.0s
Slow up	0.0s	Slow down	0.0s

Aileron to rudder

X MI	XES L	сн Ф	01 Vt_L 0% 0%	1500us	MIXES Vt_L						
Name	Motor				Multiplex	Add 🗸					
Source	Motor 🗸				Modes	0	1	2	3	4	
Weight	10% GV	Offset	0% GV		Modes	5	6	7	8		
Switch	- •	Curve	Cstm 💙 m2e 💊	<ul> <li>Image: A set of the set of the</li></ul>	Trim			Warn	ing		OFF
		•			Delay up	0.0	s	Delay	y down		0.0s
					Slow up	0.0	s	Slow	down		0.0s

Motor to elevator

X MI	XES L	СНС	01 Vt_L 0% 0%		1500us	MIXES Vt_L						
Name	Brake					Multiplex	Add 🗸					
Source	₽£Brk ►					Modes	0	1	2	3	4	
Weight	10% GV	Offset	0%	GV		Modes	5	6	7	8		
Switch	- •	Curve	Cstm 🗸	b2e 🗸		Trim			Warn	ing		OFF
		•				Delay up	0.0s		Delay	y down		0.0s
Braka (	Rutterfly) to e					Slow up	0.0s		Slow	down		0.0s

Brake (Butterfly) to elevator

MIXES	6				
Vt_R		40%	I <b>€</b> Ele	Elev D-del	
	Ð	40%	KC Rud	Rudder D-dru	
	$\oplus$	a2r	I€ Ail	Ai2Ru D-dru	
	$\oplus$	10%	Motor	Motor m2e	1012345678
CH2	$\oplus$	10%	K Brk	Brake b2e	<b>₩</b> 01 <b>2</b> 345678

V-tail Right mixes

MIXES Vt_R		CHO	02 Vt_R 0% 0%	1500us	MIXES Vt_R			
Name Ele	/				Multiplex	Add 🗸		
Source E	le 💙				Modes	0	1 2 3 4	4
Weight	40% GV	Offset	0% GV		Wodes	5	6 7 8	
Switch -	~	Curve	Diff 💙 -del 💙	GV	Trim		Warning	OFF
		•			Delay up	0.0s	Delay down	0.0s
Floweter		•			Slow up	0.0s	Slow down	0.0s
Elevator								

MIXES Vt\_R CH02 Vt\_R MIXES Vt\_R S 0% 0% Name Ai2Ru Multiplex i€Ail ∨ Source 0 1 2 3 4 Modes 5 Offset 0% GV 8 Weight a2r 🗸 GV 6 7 Diff 💙 -dru 💙 Switch - ~ Curve GV Trim Warning OFF Delay up 0.0s Delay down 0.0s ۵ Slow up 0.0s Slow down 0.0s

Aileron to rudder

X NIX		CHI	02 Vt_R 0% 0%		1500us	MIXES Vt_R						
Name	Motor					Multiplex	Add 🗸					
Source	Motor 🖌					Modes	0	1	2	3	4	
Weight	10% GV	Offset	0%	GV		Modes	5	6	7	8		
Switch	- 🗸	Curve	Cstm 🖌	m2e 🗙		Trim			Warn	ing		OFF
		•				Delay up	0.0	s	Delay	/ down		0.0s
Motor to	alayatar					Slow up	0.0	S	Slow	down		0.0s

Motor to elevator

X MI	XES R	CHI	02 Vt_R 0% 0%	1500us	MIXES Vt_R					
Name	Brake				Multiplex	Add 🗸				
Source	₽£Brk ►				Modes	0	1	2	3	4
Weight	10% GV	Offset	0% GV		Wodes	5	6	7	8	
Switch	- •	Curve	Cstm 🗙 b2e 🖌		Trim			Warn	ing	OFF
		•			Delay up	0.0s		Delay	down	0.0s
Prook (	Rutterfly) to eld	_			Slow up	0.0s		Slow	down	0.0s

Break (Butterfly) to elevator

CH3-CH4 for Aileron					
CH3:Ail L I1:Ail Weight(+50%)	NoTrim D	iff(-GV1	:dif) [Ai]	ler]	
+= TrmA Weight(+15%) [' += I3:Brk Weight(+30%)	-	ode (FM2 ·	LANDING) N	NoTrim [Br	akel
+= MAX Weight (+GV2:cal	-			Joirin (Dr	ano]
CH4:Ail_R I1:Ail Weight(+50%) += TrmA Weight(+15%) ['		iff(GV1:	dif) [Aile	∍r]	
+= I3:Brk Weight(-30%)	Flight m			NoTrim [Br	ake]
+= MAX Weight(-GV3:car	) NOTrim	[CmbSet]			
Ail_L <mark>50% © Ail Ailer D-dif</mark>					
🕀 15% 🛊 Ail Trim					
⊕ 30% <b>≿Brk Brake</b> Ŋ∭0 012345678					
CH3 🕀 cal MAX CmbSet	Aileron Lef	ft mixes			
MIXES CH03 Ail_L 1500us					
AIL 0%					
Name Ailer Source ⊯ Ail ✓	Multiplex	Add V	2 3	4	
Weight 50% GV Offset 0% GV	Modes	5 6	7 8	4	
Switch – V Curve Diff V -dif V GV	Trim		Warning	OFF	
\$	Delay up	0.0s	Delay down	0.0s	
Aileron	Slow up	0.0s	Slow down	0.0s	
MIXES CH03 Ail_L 1500us	MIXES				
	MIXES Ail_L				
Name Trim Source Ail V	Multiplex	Add 🗸			
Weight 15% GV Offset 0% GV	Modes	0 1 5 6	2 3 7 8	4	
Switch - V Curve Diff V 0% GV	Trim		Warning	OFF	
•	Delay up	0.0s	Delay down	0.0s	
Trim (For info, see: Clinic-diff)	Slow up	0.0s	Slow down	0.0s	
MIXES CH03 Ail_L 1500us	MIXES				
Ail_L	Ail_L				
Name Brake	Multiplex	Add V			
Source № Brk ✓ Weight 30% GV Offset 0% GV	Modes	0 1 5 6	2 3 7 8	4	
Switch - V Curve Diff V 0% GV	Trim		Warning	OFF	
•	Delay up	0.0s	Delay down	0.0s	
Brake (Butterfly)	Slow up	0.0s	Slow down	0.0s	
MIXES CH03_AIL1500us	MIXES				
Ail_L	Ail_L				
Name CmbSet	Multiplex	Add 🗸			
Source MAX V Weight cal V GV Offset 0% GV	Modes	0 1 5 6	2 3 7 8	4	
Switch - V Curve Diff V 0% GV	Trim		Warning	OFF	
¢	Delay up	0.0s	Delay down	0.0s	
Ť	Slow up	0.0s	Slow down	0.0s	

Slow up

0.0s

Slow down

Magnus Hedlund

Camber setting

0.0s

MIXES					
Ail_R		50%	I€ Ail	Ailer Ddif	
	Ð	15%	₿ Ail	Trim	
	Ð	-30%	I <sup>€</sup> Brk	Brake	<b>₩</b> 01 <b>2</b> 345678
CH4	Ð	-car	MAX	CmbSet	

X Ail	XES _R	CH04	Ail_R 0% 0%	1500us	MIXES Ail_R			
Name	Ailer				Multiplex	Add 💙		
Source	I€Ail ∨				Modes	0	1 2 3 4	•
Weight	50% GV	Offset	0% GV		Wodes	5	6 7 8	
Switch	- ~	Curve	Diff 💙 dif 💙	GV	Trim		Warning	OFF
		۵			Delay up	0.0s	Delay down	0.0s
		•			Slow up	0.0s	Slow down	0.0s

Aileron Right mixes

Aileron

X Ail_	XES _R	CHI	04 Ail_R 0% 0%		MIXES			
Name	Trim				Multiplex	Add 🗸		
Source	🛱 Ail 🗸				Modes	0		1
Weight	15% GV	Offset	0%	GV		5	6 7 8	
Switch	- ~	Curve	Diff 🖌	0% GV	Trim		Warning	OFF
		•			Delay up	0.0s	Delay down	0.0s
	infa 0				Slow up	0.0s	Slow down	0.0s

Trim (For info, see: Clinic-diff)



Brake (Butterfly)



Camber setting

#### CH5 for armed (used in ExpressLRS system) (Not used as Rx output)

CH5:armed MAX Weight(+100%) NoTrim [ch5]

I	MIXES				
	armed	100% MAX	ch5		
E	ExpressLl	RS armed			

	XES ned	CHI	05 armed <u>100%</u> 100%	2012us	MIXES armed			
Name	ch5				Multiplex	Add 💙		
Source	MAX 🗸				Modes	0 1	2 3 4	4
Weight	100% GV	Offset	0%	GV	Wodes	5 6	7 8	
Switch	- •	Curve	Diff 🗸	0% GV	Trim		Warning	OFF
		•			Delay up	0.0s	Delay down	0.0s
oh5					Slow up	0.0s	Slow down	0.0s

Motor mixes

ch5

## CH6 for Motor

MIXES Motor

MAX 🗸

- 🗸

-100% GV

Name Source

Weight

Switch

MIXES			
Motor	-100%MAX	Off	<i>)</i> [) <b>))</b> 012345678
сн6 🛈	100% & SB	On mot	<b>))))</b> 0 <mark>1</mark> 2345678

Offset

Curve

\$

CH06 Motor

0% GV

Diff 🗸

-100% -100%

0% GV

MIXES Motor			
Multiplex	Add 🐱		
Modes	0 1 5 6		4
Trim		Warning	OFF
Delay up	0.0s	Delay down	0.0s
Slow up	0.0s	Slow down	0.0s

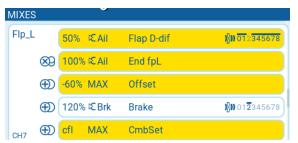
Motor off

	MIXES CH06 Motor 988u Motor -100%											
Name	On					Multiplex	Replac	• 🖌				
Source	Øsb 🗸					Modes	0	1	2	3	4	
Weight	100% GV	Offset	0%	GV		Modes	5	6	7	8		
Switch	- •	Curve	Cstm 🗸	mot 🛰	•	Trim			Warni	ing		OFF
	\$					Delay up	0.0	8	Delay	down		0.0s
						Slow up	0.0	5	Slow	down		0.0s

Motor on

#### CH7-CH8 for Flap

- I1:Ail Weight(+50%) Flight modes(FM0:CRUISE, FM1:MOTOR ON, FM3, FM4:DISTANCE, FM5, FM6:THERMAL, FM7, FM8) NoTrim Diff(-GV1:dif) [Flap]
  \*= I1:Ail Weight(+100%) NOTrim [Offset]
  += MAX Weight(+60%) Flight mode(FM2:LANDING) NoTrim [Brake]
  += MAX Weight(+120%) Flight mode(FM2:LANDING) NoTrim [Brake]
  += MAX Weight(+160%) Flight mode(FM2:LANDING) NOTRIM [Brake]
  += MAX Weight(+160%) Flight mode(FM2:LANDING) NOTRIM [Brake] CH7:Flp\_L
- IIAA Weight('GVV.CI/) NOTIM [CMDSE]
  IIAAI Weight('AON) Flight modes(FM0:CRUISE, FM1:MOTOR ON, FM3, FM4:DISTANCE, FM5, FM6:THERMAL, FM7, FM8) NoTrim Diff(GV1:dif) [Flap]
  \*= I1Ail Weight('AON) NOTIM [Offset]
  += I3:Btk Weight('AON) NOTIM [Offset]
  += I3:Btk Weight('GN0; FIGN) Hodes(FM2:LANDING) NoTIM [Brake]
  += MAX Weight('GV5:cfr) NOTIM [CMDSet] CH8:Flp\_R



#### Flap Left mixes

MD Flp	XES _L		CH0	7 Flp_L	-60% -60%	1193us
Name	Flap					
Source	Ƙ£Ail ❤					
Weight	50%	GV	Offset	0%	GV	
Switch	- 🗸		Curve	Diff 🖌 -di	f 💙 🛛	GV
			٠			

MIXES Flp_L							
Multiplex	Add 💙						
Modes	0	1 6	2 7	3 8	4	•	
Trim			Warn	ing		OFF	
Delay up	0.0s	Delay down			0.0s		
Slow up	0.0s		Slow	down		0.0s	

Aileron to flap

🐹 MI Flp	XES _L	CHO	07 Flp_L -60% -60%	1193us	MIXES Flp_L			
Name	End				Multiplex	Multiply	<b>~</b>	
Source	Source E Ail V					0	1 2 3 4	L I
Weight	100% GV	Offset	0% GV		Modes	5	6 7 8	
Switch	- •	Curve	Cstm 🖌 fpL 🖌		Trim		Warning	OFF
		٠			Delay up	0.0s	Delay down	0.0s
					Slow up	0.0s	Slow down	0.0s

Flap end

MIXES Flp_L	CH07 Flp_L 1193us -60% -60%	MIXES Flp_L		
Name Offset		Multiplex	Add 💙	
Source MAX V Weight -60% GV	Offset 0% GV	Modes	0 1 2 3 4 5 6 7 8	
Switch - 🗸	Curve Diff 💙 0% GV	Trim	Warning OFF	
	٠	Delay up	0.0s Delay down 0.0s	
	·	Slow up	0.0s Slow down 0.0s	

Flap offset

MIX Flp	XES _L	CH	07 Flp_L	119 -60% -60%	MIXES Flp_L						
Name	Brake				Multiplex	Add 🗸					
Source	I€Brk ✔				Modes	0	1	2	3	4	
Weight	120% GV	Offset	0%	GV	wodes	5	6	7	8		
Switch	- •	Curve	Diff 🗸	0% GV	Trim			Warni	ing		OFF
		•			Delay up	0.0	8	Delay	down		0.0s
Draka (	Duttorfly				Slow up	0.0	5	Slow	down		0.0s

Brake (Butterfly)

X HI	XES D_L	CHO	)7 Flp_L	-60% -60%	Bus MIXES Flp_L			
Name	CmbSet				Multiplex	Add 🗸		
Source Weight	MAX 🗸 cfl 🖌 GV	Offset	0%	GV	Modes	0 1	2 3	4
Switch		Curve	Diff 🗸	0% GV	Trim		Warning	OFF
		•			Delay up	0.0s	Delay down	0.0s
Cambe	r settina				Slow up	0.0s	Slow down	0.0s

Camber setting

MIXES	;				
Flp_R		50% ÆA	Ail	Flap Ddif	<b>I∭11</b> 012345678
	89	100% IC A	Ail	End fpR	
	Ð	60% MA	X	Offset	
	⊕	-120%I€ E	Brk	Brake	<b>₩</b> 01 <b>2</b> 345678
СН8	⊕	-cfr MA	X	CmbSet	

# Flap Right mixes

MIX Flp_		CHO	08 Flp_R 60% 60%	1807us	MIXES Flp_R			
Name	Flap				Multiplex	Add 💙		
Source	ƘAil ❤				Modes	0 1	2 3	4
Weight	50% GV	Offset	0% GV		Wodes	5 6	6 7 8	
Switch	- ~	Curve	Diff 💙 dif 🌱	GV	Trim		Warning	OFF
		•			Delay up	0.0s	Delay down	0.0s
• •		- <b>T</b>			Slow up	0.0s	Slow down	0.0s

Aileron to flap

MI Flp	XES J_R	CH(	18 Flp_R 60% 60%	1807us	MIXES Flp_R			
Name	End				Multiplex	Multiply	<b>~</b>	
Source	I€Ail ∨				Modes	0	1 2 3 4	4
Weight	100% GV	Offset	0% GV		Wodes	5	6 7 8	
Switch	- •	Curve	Cstm 🖌 fpR 🖌		Trim		Warning	OFF
	\$				Delay up	0.0s	Delay down	0.0s
					Slow up	0.0s	Slow down	0.0s

Flap end§

X Flp	XES _R	CH	08 Flp_R 60% 60%	1807us	MIXES Flp_R			
Name	Offset				Multiplex	Add 🗸		
Source	MAX 🗸				Modes	0 1	2 3 4	1
Weight	60% GV	Offset	0% GV		modeo	5 6	7 8	
Switch	- ~	Curve	Diff 💙	0% GV	Trim		Warning	OFF
		•			Delay up	0.0s	Delay down	0.0s
Flap off	set				Slow up	0.0s	Slow down	0.0s

Flap offset

MIXES Flp_R	CH08 Flp_R 1807us 60% 60%	MIXES Flp_R	
Name Brake		Multiplex	Add 💙
Source 🛙 🛙 Source		Modes	0 1 2 3 4
Weight -120% GV	Offset 0% GV	Wodes	5 6 7 8
Switch - 🗸	Curve Diff 🕶 0% GV	Trim	Warning OFF
	•	Delay up	0.0s Delay down 0.0s
	•	Slow up	0.0s Slow down 0.0s
Brake (Butterfly)			

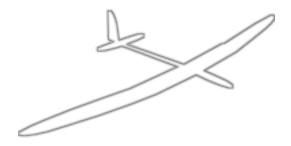
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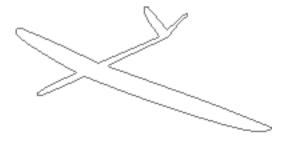
K Flp	XES _R	CH08 Flp_	R 1807u 60% 60%	MIXES Flp_R			
Name	CmbSet			Multiplex	Add 🗸		
Source Weight	MAX V -cfr V GV	Offset	0% GV	Modes	0 1 5 6	2 3 4 7 8	•
Switch	- ~	Curve Diff		Trim		Warning	OFF
		•		Delay up	0.0s	Delay down	0.0s
Cambe	r setting			Slow up	0.0s	Slow down	0.0s

# SPECIAL FUNCTIONS

SPECIAL FUNCTIONS		
	+	

None





Basic Configuration Template Download: Glider-X Basic Glider-V Basic

# **Setup (Basic Configuration)**

# **NEUTRAL**

#### Elevator for X-tail

- 1) Check for direction (use Inverted).
- 2) Setup neutral with Subtrim.

Ele	TPUTS	CH01 Ele	0% 0%
Name	Ele	Subtrim	0.0 GV
Min	-100.0 GV	Max	100.0 GV
Inverted		Curve	ch1
PPM Center	1500	Subtrim mode	$\triangle$ (center only) 💙

OUTPUTS – Ele

#### Elevator Vtail Left for V-tail

- 1) Check for direction (use Inverted).
- 2) Setup neutral with Subtrim.



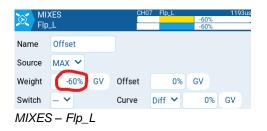
OUTPUTS – Vt\_L

## Flap Left

5) Check for direction (use Inverted).

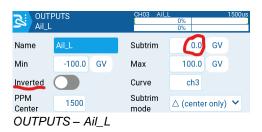
	PUTS -	CH07 Flp_	L 1193us -60% -60%
Name	Flp_L	Subtrim	0.0 GV
Min	-100.0 GV	Max	100.0 GV
Inverted		Curve	ch7
PPM Center	1500	Subtrim mode	$\triangle$ (center only) 💙
OUTPL	ITS – Flp_L		

6) Setup neutral with Weight.



#### Aileron Left

- 9) Check for direction (use Inverted).
- 10) Setup neutral with Subtrim.



# Rudder for X-tail

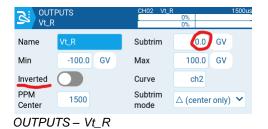
- 3) Check for direction (use Inverted).
- 4) Setup neutral with Subtrim.

	iputs	CH02 Ruc	d 1500us 0% 0%
Name	Rud	Subtrim	0.0 GV
Min	-100.0 GV	Max	100.0 GV
Inverted		Curve	ch2
PPM Center	1500	Subtrim mode	$\triangle$ (center only) $\checkmark$
	ITS Dud		

OUTPUTS – Rud

#### Elevator Vtail Right for V-tail

- 3) Check for direction (use Inverted).
- 4) Setup neutral with Subtrim.



# Flap Right

7) Check for direction (use Inverted).

		CH08 Flp_	<u>R</u> 60% 60%		1807us
Name	Flp_R	Subtrim	0.0	GV	
Min	-100.0 GV	Max	100.0	GV	
Inverted		Curve	ch8		
PPM Center	1500	Subtrim mode	$\triangle$ (center	r only)	~
OUTPU	UTS – Flp_R				

8) Setup neutral with Weight.

MD	KES	CHU			1807us
😣 Flp			60%		
- Тр	_N		60%		
Name	Offset				
Source	MAX 🗸				
Weight	60% GV	Offset	0%	GV	
Switch	- •	Curve	Diff 🗸	0% 0	V
MIXE	S – Flp_R				

# Aileron Right

- 11) Check for direction (use Inverted).
- 12) Setup neutral with Subtrim.

	rputs R	CH04 Ail_	R 0% 0%	1500uş
Name	Ail_R	Subtrim	0.0	GV
Min	-100.0 GV	Max	100.0	GV
Inverted		Curve	ch4	
PPM Center	1500	Subtrim mode	$\triangle$ (center	only) 🗸
OUTP	UTS – Ail_R			

## Elevator for X-tail

13) Setup same endpoint for up and down with Min or Max. *Example: 20 up, 20 dn [mm]* 

Ele	TPUTS	CH01 Ele	0% 0%	1500us
Name	Ele	Subtrim	0.0	GV
Min	-100.0 GV	Max	100.0	GV
Inverted		Curve	ch1	
PPM Center	1500	Subtrim mode	$\triangle$ (cente	r only) 🖌
OUTPI	UTS – Ele			

## Elevator Vtail Left for V-tail

13) Setup same endpoint for up and down with Min <u>or</u> Max. *Example: 20 up, 20 dn [mm]* 

	PUTS -	CH01 Vt_	0% 0%		1500us
Name	Vt_L	Subtrim	0.0	GV	
Min	-100.0 GV	Max	100.0	GV	
Inverted		Curve	ch1		
PPM Center	1500	Subtrim mode	△ (center	r only)	~

OUTPUTS – Vt\_L

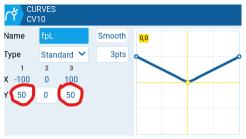
#### Aileron Left

15) Setup same endpoint for up and down with Min <u>or</u> Max. *Example: 25 up, 25 dn [mm]* 

OU <sup>-</sup> _Ail	TPUTS L	CH03 Ail_	L 0% 0%	1500u
Name	Ail_L	Subtrim	0.0	GV
Min	-100.0 GV	Max	100.0	GV
Inverted		Curve	ch3	
PPM Center	1500	Subtrim mode	$\triangle$ (cente	r only) 🖌
OUTP	UTS – Ail L			

#### Flap Left

17) Setup same endpoint for up and down by using curve CV10:fpL.



CURVES – CV10:fpL

Change one of the values to achieve the same endpoint. *Example: 10 up, 10 dn [mm]* 

## Rudder for X-tail

14) Setup same endpoint for left and right with Min or Max. *Example: 60 left, 60 right [mm]* 

OUTPUTS Bud		CH02 Rud	0%		1500us
Rud			0%		
Name	Rud	Subtrim	0.0	GV	
Min	-100.0 GV	Max	100.0	GV	
Inverted		Curve	ch2		
PPM Center	1500	Subtrim mode	$\triangle$ (cente	r only)	~
Ουτρυ	TS – Rud				

#### Elevator Vtail Right for V-tail

14) Setup same endpoint for up and down with Min or Max. *Example: 20 up, 20 dn [mm]* 

OUTI Vt_R	PUTS	CH02 Vt_F	R 0% 0%	1500us
Name	Vt_R	Subtrim	0.0	GV
Min	-100.0 GV	Max	100.0	GV
Inverted		Curve	ch2	
PPM Center	1500	Subtrim mode	$\triangle$ (center	ronly) 💙

OUTPUTS – Vt\_R

#### Aileron Right

16) Setup same endpoint for up and down with Min <u>or Max</u>. *Example: 25 up, 25 dn [mm]* 

	rputs R	CH04 Ail_	R 0% 0%	1500us	
Name	Ail_R	Subtrim	0.0	GV	
Min	-100.0 GV	Max	100.0	GV	
Inverted		Curve	ch4		
PPM Center	1500	Subtrim mode	$\triangle$ (cente	r only) 💙	
OUTPUTS – Ail_R					

## Flap Right

 Setup same endpoint for up and down by using curve CV11:fpR.

rý <sub>cv</sub>	RVES 11			
Name	fpR	Smooth	<mark>0,0</mark>	
Туре	Standard 🗸	3pts		
1 X -100	2 3 0 100			
Y 50	0 50			

CURVES – CV11:fpR

Change one of the values to achieve the same endpoint. Example: 10 up, 10 dn [mm]

# <u>LIMIT</u>

If there is a need for setting a channel output limit, i.e. like a "mechanical stop", the channel output curve can be used.

Example, setting a limit for channel 1 to 45% output (both directions):



CURVES - CV1:ch1

# TRAVEL (For use in flight)

#### **Elevator for X-tail**

19) Setup same travel for up and down with Weight. Example: 12 up, 12 dn [mm]

Ele	KES	CH01	I Ele 0% 0%	1500us
Name	Elev			
Source	KEle ❤			
Weight	50% GV	Offset	0% GV	
Switch	- •	Curve	Diff 💙 -del 💊	GV
MIXES	S – Ele			

20) Setup different travel for up and down with Diff - del. Example: 12 up, 10 dn [mm]

Ele	KES		CHO	(	D%	1500us
Name	Elev					
Source	₽£Ele ❤					
Weight	50%	GV	Offset	0%	GV	
Switch	- •		Curve	Diff 🗸	-del 🗸	GV
MIXES	S – Ele					

GLOBAL	VARI.	ABLES							
car	FM0	FM1	FM2	FM3	FM4	FM5	FM6	FM7	FM8
	0%	FM0	FM0	-10%	-5%	FM6	10%	FM0	FM0
cfl	FM0	FM1	FM2	FМ3	FM4	FM5	FM6	FM7	FM8
	0%	FM0	FM0	-10%	-5%	FM6	10%	FM0	FM0
cfr	FM0	FM1	FM2	FМ3	FM4	FM5	FM6	FM7	FM8
	0%	FM0	FM0	-10%	-5%	FM6	10%	FM0	FM0
a2r	FM0	FM1	FM2	FM3	FM4	FM5	FM6	FM7	FM8
	0%	FM0	FM0	FM0	FM0	FM0	FM0	FM0	FM0
del	FM0	FM1	FM2	FM3	FM4	FM5	FM6	FM7	FM8
	0%	FM0	FM0	FM0	FM0	FM0	FM0	FM0	FM0

GLOBAL VARIABLES - del

#### **Rudder for X-tail**

21) Setup same travel for left and right with Weight. Example: 45 left, 45 right [mm]

X Ru	XES d	CH0	2 Rud 0% 0%	1500us
Name	Rudder			
Source	KRud ❤			
Weight	50% GV	Offset	0%	GV
Switch	- •	Curve	Diff 🗸	0% GV
MIXES	S – Rud			
22) –	23) 'None'			

# Elevator Vtail Left for V-tail

19) Setup same travel for up and down with Weight. Example: 12 up, 12 dn [mm]

X MI	XES L	сно1 Ә	Vt_L 1500us 0%
Name	Elev		
Source	ÆEle ➤		
Weight	40%) GV	Offset	0% GV
Switch	- ~	Curve	Diff 💙 -del 🍾 🛛 GV
MIXES	S – Vt_L		

20) Setup different travel for up and down with Diff - del. Example: 12 up, 10 dn [mm]

X MI	XES L	сно P	01 Vt_L 0% 0%	1500us
Name	Elev			
Source	ÆEle ➤			
Weight	40% GV	Offset	0% GV	
Switch	- •	Curve	Diff 💙 -del 💙	GV
MIXES	S – Vt_L			

GLOBA	L VARI	ABLES							
car	FM0	FM1	FM2	FM3	FM4	FM5	FM6	FM7	FM8
	0%	FM0	FM0	-10%	-5%	FM6	10%	FM0	FM0
cfl	FM0	FM1	FM2	FM3	FM4	FM5	FM6	FM7	FM8
	0%	FM0	FM0	-10%	-5%	FM6	10%	FM0	FM0
cfr	FM0	FM1	FM2	FM3	FM4	FM5	FM6	FM7	FM8
	0%	FM0	FM0	-10%	-5%	FM6	10%	FM0	FM0
a2r	FM0	FM1	FM2	FM3	FM4	FM5	FM6	FM7	FM8
	0%	FM0	FM0	FM0	FM0	FM0	FM0	FM0	FM0
del	FM0	FM1	FM2	FM3	FM4	FM5	FM6	FM7	FM8
	0%	FM0	FM0	FM0	FM0	FM0	FM0	FM0	FM0

GLOBAL VARIABLES - del

## Elevator Vtail Right for V-tail

21) Setup travel for up and down with Weight. Example: 12 up, 10 dn [mm]

X MI	KES R	CH02	Vt_R 0% 0%	1500us
Name	Elev			
Source	KEle ❤			
Weight	40% GV	Offset	0% GV	
Switch	- •	Curve	Diff 💙 -del 💊	GV
MIXES	S – Vt_R			

## Rudder Vtail Left for V-tail

22) Setup same travel for left and right with Weight. Example: 15 up, 14 dn [mm]

X MI	XES L	сно1 Э	Vt_L 0%	1500us
Name	Rudder			
Source	KRud ❤			
Weight	-40% GV	Offset	0% GV	
Switch		Curve	Diff 💙 -dru 💙	GV
MIXES	S – Vt_L			

#### Rudder Vtail Right for V-tail

23) Setup travel for left and right with Weight. Example: 15 up, 14 dn [mm]

X MI Vt_	XES "R	CHO	2 Vt_R 0%	1500us
Name	Rudder			
Source	Rud ✔			
Weight	40% GV	Offset	0% GV	
Switch	- •	Curve	Diff 💙 -dru 💙	GV
MIXES	S – Vt_R			

#### Aileron Left

24) Setup same travel for up and down with Weight. Example: 20 up, 20 dn [mm]

MD Ail_	KES L	CH03	3 Ail_L 0% 0%	1500us
Name	Ailer			
Source	I€Ail ➤			
Weight	50%) GV	Offset	0% GV	
Switch	- •	Curve	Diff 💙 -dif 🗸	GV
MIXES	S – Ail_L			

25) Setup different travel for up and down with Diff - dif. Example: 20 up, 15 dn [mm]

X Ail_	KES _L		Cł	H03		)%		1500us
Name	Ailer							
Source	ƘAil ♥							
Weight	50%	GV	Offset		0%	GV		
Switch	- •		Curve	D	iff 💙	-dif 💊		3V
MIXES	S – Ail_l	_			-			
GLOBAL	VARIABLE	S						
dif	FM0 FM1 0% FM0	FM2 FM0	FM3 FM4	FM4 0%	<sup>FM5</sup> FM6	FM6 0%	FM7 FM0	FM8 FM0

GLOBAL VARIABLES - dif

#### Aileron Right

26) Setup travel up and down with Weight. Example: 20 up, 15 dn [mm]

MI Ail	XES _R	CH04	4 Ail_R 0% 0%	1500us
Name	Ailer			
Source	I€Ail ❤			
Weight	50%) GV	Offset	0% GV	
Switch	- ~	Curve	Diff 💙 dif 🌱	GV
MIXES	S – Ail_R			

#### Flap Left

27) Setup travel for up with Weight. *Example: 8 up [mm]* (Down travel is set by aileron diff.)

MI: Flp	XES _L	CHO	7 Flp_L 1193us -60% -60%
Name	Flap		
Source	I€ Ail ❤		
Weight	50% GV	Offset	0% GV
Switch	- •	Curve	Diff 💙 -dif 🍾 🛛 GV
MIXES	S – Flp_L		

#### Flap Right

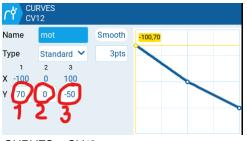
28) Setup travel for up with Weight. *Example: 8 up [mm]* (Down travel is set by aileron diff.)

X MIX Flp	KES _R	CH08	8 Flp_R 60% 60%	1807us
Name	Flap			
Source	I€Ail ❤			
Weight	50%) GV	Offset	0% GV	
Switch	- •	Curve	Diff 💙 dif 💙	GV
MIXES	S – Flp_R			

#### Motor

З.

- 29) Setup motor speed by using curve CV12:mot.
  - 1. High speed Example: 70% (or 100%)
  - 2. Mid speed Example: 0%
    - Low speed Example: -50% (above -55% is mandatory due to F5J height meter.)



CURVES – CV12:mot

# **CAMBER**

## Aileron Left

 Setup camber for left aileron using Weight cal (Flight Modes).

X Ail	XES _L	CH03	Ail_L 0% 0%	1500us
Name	CmbSet			
Source	MAX 🗸			
Weight	cal 🗙 🛛 GV	Offset	0% 0	V
Switch	- •	Curve	Diff 💙	0% GV
MIXES	S – Ail_L			

GLOBA	L VARI	ABL ES							
cal	FM0	FM1	FM2	FM3	FM4	FM5	FM6	FM7	FM8
	0%	FM0	FM0	-10%	-5%	FM6	10%	FM0	FM0
car	FM0	FM1	FM2	FМ3	FM4	FM5	FM6	FM7	FM8
	0%	FM0	FM0	-10%	-5%	FM6	10%	FM0	FM0
cfl	FM0	FM1	FM2	FМ3	FM4	FM5	FM6	FM7	FM8
	0%	FM0	FM0	-10%	-5%	FM6	10%	FM0	FM0
cfr	FM0	FM1	FM2	FM3	FM4	FM5	FM6	FM7	FM8
	0%	FM0	FM0	-10%	-5%	FM6	10%	FM0	FM0
LOE	LOBAL VARIABLES – cal								

## Flap Left

32) Setup camber for left flap using Weight cfl (Flight Modes).

MI: Flp	XES _L	CHC	07 Flp_L	1193 -60% -60%	3us
Name	CmbSet				
Source	MAX 🗸				
Weight	cfl 🗙 🛛 GV	Offset	0%	GV	
Switch	- ~	Curve	Diff 🖌	0% GV	
MIXES	S – Flp_L				

GLOBAL VARIABLES									
dif	FM0	FM1	FM2	FM3	FM4	FM5	FM6	FM7	FM8
	0%	FM0	FM0	FM4	0%	FM6	0%	FM0	FM0
cal	FM0	FM1	FM2	FM3	FM4	FM5	FM6	FM7	FM8
	0%	FM0	FM0	-10%	-5%	FM6	10%	FM0	FM0
car	FM0	FM1	FM2	FM3	FM4	FM5	FM6	FM7	FM8
	0%	FM0	FM0	-10%	-5%	FM6	10%	FM0	FM0
cfl	FM0	FM1	FM2	FM3	FM4	FM5	FM6	FM7	FM8
	0%	FM0	FM0	-10%	-5%	FM6	10%	FM0	FM0
cfr	FM0	FM1	FM2	FM3	FM4	FM5	FM6	FM7	FM8
	0%	FM0	FM0	-10%	-5%	FM6	10%	FM0	FM0
GLOBAL VARIABLES – cfl									

# Aileron Right

31) Setup camber for right aileron using Weight car (Flight Modes).

MI Ail	XES _R	CHO	14 Ail_R 0% 0%	
Name	CmbSet			
Source	MAX 🗸			
Weight	-car 🖌 🛛 GV	Offset	0%	GV
Switch	- ~	Curve	Diff 🗸	0% GV
MIXES	S– Ail_R			

	GLOBAL	VARI.	ABLES								
	cal	FM0 0%	FM1 FM0	FM2 EM0	FM3 -10%	FM4 -5%	FM5 EM6	FM6 10%	FM7 FM0	FM8 FM0	)
(	car	FM0 0%	FM1 FM0	FM2 FM0	FМ3 -10%	FM4 -5%	FM5 FM6	FM6 10%	FM7 FM0	FM8 FM0	J
	cfl	FM0 0%	FM1 FM0	FM0	-10%	-5%	FM6	10%	FM7 FM0	FM8 FM0	
	cfr	FM0 0%	FM1 FM0	FM2 FM0	FM3 -10%	FM4 -5%	FM5 FM6	FM6 10%	FM7 FM0	FM8 FM0	J
(	GLOBAL VARIABLES - car										

## Flap Right

1

 Setup camber for right flap using Weight cfr (Flight Modes).

MD Flp	KES _R	CH0	8 Flp_R 18 60% 60%	307us
Name	CmbSet			
Source	MAX 🗸			
Weight	-cfr 🗙 GV	Offset	0% GV	
Switch	- •	Curve	Diff 💙 🛛 0% GV	
MIXES	– Flp_R			

GLOBA	_ VARI	ABLES							
dif	FM0	FM1	FM2	FM3	FM4	FM5	FM6	FM7	FM8
	0%	FM0	FM0	FM4	0%	FM6	0%	FM0	FM0
cal	FM0	FM1	FM2	FM3	FM4	FM5	FM6	FM7	FM8
	0%	FM0	FM0	-10%	-5%	FM6	10%	FM0	FM0
car	FM0	FM1	FM2	FM3	FM4	FM5	FM6	FM7	FM8
	0%	FM0	FM0	-10%	-5%	FM6	10%	FM0	FM0
cfl	FM0	FM1	FM2	FМ3	FM4	FM5	FM6	FM7	FM8
	0%	FM0	FM0	-10%	-5%	FM6	10%	FM0	FM0
cfr	FM0	FM1	FM2	FM3	FM4	FM5	FM6	FM7	FM8
	Ω%	FM0	FM0	-10%	-5%	FM6	10%	FM0	FM0
	DAL	IND	IADI	EC	ofr				

GLOBAL VARIABLES - cfr

# **BREAK (Butterfly)**

#### Aileron Left

34) Setup break position with Weight.

X Ail	XES _L	CHO	3 Ail_L 0% 0%	1500us
Name	Brake			
Source	l€Brk ❤			
Weight	30% GV	Offset	0% GV	
Switch	- •	Curve	Diff 💙 0%	GV
MIXES	S – Ail_L			

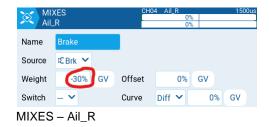
# Flap Left

36) Setup break position with Weight.

X Flp	XES _L	CH0	7 Flp_L	1193us -60% -60%
Name	Brake			
Source	ƘBrk ❤			
Weight	120% GV	Offset	0%	GV
Switch	- •	Curve	Diff 🗸	0% GV
MIXES	6 – Flp_L			

## Aileron Right

35) Setup break position with Weight.



## Flap Right

37) Setup break position with Weight.

MIX Flp	KES _R	CHO	8 Flp_R 60% 60%	1807us
Name	Brake			
Source	l€Brk ❤			
Weight	-120% GV	Offset	0%	GV
Switch	- •	Curve	Diff 🗸	0% GV
MIXES	– Flp_R			

## **AILERON to RUDDER**

#### Ail2Rud for X-tail

38) Setup Aileron to rudder with Weight - a2r.

X MIX Rud		CH02	Rud 0% 0%	1500us
Name	Ai2Ru			
Source	ƘAil ❤			
Weight	a2r 🗙 🛛 GV	Offset	0% G	W
Switch	- •	Curve	Diff 🗸	0% GV
MIXES	S – Rud			

 FM0
 FM1
 FM2
 FM3
 FM4
 FM5
 FM6
 FM7
 FM8

 0%
 FM0
 FM0
 -10%
 -5%
 FM6
 10%
 FM0
 FM0

FM1 FM2 FM3 FM4 FM5 FM6 FM7 FM8 FM0 FM0 FM0 FM0 FM0 FM0 FM0 FM0

Ail2Rud	for	V-tail

38) Setup Aileron to Vtail with Weight - a2r.



X MD Vt_	KES R	CH0	2 Vt_R 0% 0%	1500us
Name	Ai2Ru			
Source	I€Ail ✔			
Weight	a2r 🗙 🛛 GV	Offset	0% GV	
Switch	- •	Curve	Diff 🗸 -dru 🖌	GV
MIXES	$S - Vt_R$			

GLOBAL	. VARI	ABLES								
cfr	FM0 0%	FM1 FM0	FM2 FM0	FM3 -10%	FM4 -5%	FM5 FM6	FM6 10%	FM7 FM0	FM8 FM0	
a2r	FM0 0%	FM1 FM0		FM3 FM0	FM4 FM0	FM5 FM0	FM6 FM0	FM7 FM0	FM8 FM0	

GLOBAL VARIABLES - a2r

GLOBAL VARIABLES – a2r

Magnus Hedlund

GLOBAL VARIABLES

0%

cfr

a2r

# Setup after flight (Basic Configuration)

# **MOTOR to ELEVATOR**

#### Elevator

A. Setup motor speed to elevator mix by using motor mix and curve CV13:m2e.

These values equal the motor speed,

- 1: High
- 2: Mid
- 3: Low



Elevator mix values:

CURVES CV13										
Name	m2e		Sn	nooth	<mark>0,2</mark>					
Туре	Custo	om 🗸		5pts						
1	2	3	4	5						
X -100	-50	0	70	100				<b></b>		
Y O	0	(2)	3	3						
		<b>~</b>								

CURVES - CV13:m2e

X-tail:				Elevat	or mix	V	Veig	ht	value:
Ele	XES			CH	101 Ele	09			1500us
Name	Motor								
Source	Motor	~							
Weight	10	3%	GV	Offset	C	)%	GV		
Switch				Curve	Cstm	~	m2e	×	
MXES	– Ele	Э							

sets the total "gain".





MIXES – Vt\_R

# **BREAK (Butterfly) to ELEVATOR**

#### **Elevator**

B. Setup break to elevator mix by using elevator mix and curve CV14:b2e.

Elevator mix values:



CURVES - CV14:b2e

X-tail:		Elevato	or mix Weight value:
Ele	(ES	CHO	01 Ele 1500us 0% 0%
Name	Brake		
Source	iΣBrk ➤		
Weight	10% GV	Offset	0% GV
Switch	- ~	Curve	Cstm 💙 b2e 💙

MIXES – Ele

sets the total "gain".

V-tail: (same value for left and right V-tail)

						<u> </u>	,
	X MIX Vt_I	KES L		сно <sup>.</sup>	1 Vt_L 09 09		1500us
	Name	Brake					
	Source	₽EBrk ❤					
	Weight	10%	GV	Offset	0%	GV	
	Switch	- •		Curve	Cstm 🗸	b2e 💊	•
1	MIXES	– Vt L					

500us			CH0	2 Vt_R 09 09		1500us
	Name	Brake				
	Source	K Brk ❤				
	Weight	10% GV	Offset	0%	GV	
	Switch	- •	Curve	Cstm 🗸	b2e 🗸	

MIXES - Vt\_R

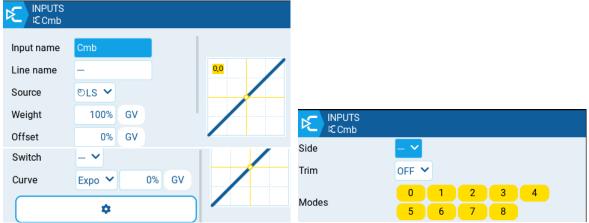
# EXTENDED CONFIGURATION (added)

# Preparation – FM3: SPEED and FM5: THERMAL V

# **INPUTS**

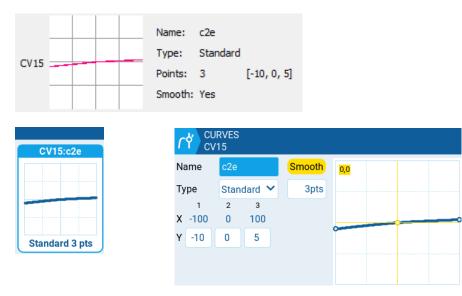
I1:Ail	Ail Weight(+100%)
I2:Ele	Ele Weight(+100%)
I3:Brk	Thr Weight(-50%) No Trim Offset(50%)
I4:Rud	Rud Weight(+100%)
15:Cmb	LS Weight(+100%) OFF

## For variable camber:



# **CURVES**

# CV15 (Camber to elevator curve):



# LOGICAL SWITCHES

#	Function	٧1	V2	AND Switch	Duration	Delay
L01	AND $\checkmark$	SAJ ~	V	~	0,0 \$	0,0 🗘
L02	a <x< th=""><th>Thr v</th><th>92</th><th> ~</th><th>0,0 \$</th><th>0,0 🗘</th></x<>	Thr v	92	~	0,0 \$	0,0 🗘
L03	AND $\checkmark$	sc† ~	SD† ~	~	0,0 \$	0,0 🔹
L04	AND $\checkmark$	sc† ~	V	~	0,0 \$	0,0 🔹
L05	AND $\checkmark$	sci ~	SFJ V	~	0,0 \$	0,0 🗘
L06	AND	sci ~	V		0,0 \$	0,0

LOGICAL SW	ITCHES		0	
L01 AND	SA₽			
L02 a <x< td=""><td>∕®Thr</td><td>92</td><td></td><td></td></x<>	∕®Thr	92		
L03 AND	SC企	SD仓		
L04 AND	SC企		-	
L05 AND	sc₽	SF₽		
L06 AND	sc₽			

LOGICAL SWITCHES		LOGICAL SWITCHES	6
Function	AND 💙	Function	AND 🗸
V1	SCŵ 💙	V1	sc& 🗸
V2	SDû 💙	V2	SF 🤂 🗸
AND switch	- 🗸	AND switch	- ~
Duration	0.0s	Duration	0.0s
Delay	_	Delay	_
Used for FM3 (SPEE	Used for FM5 (THERMAL V)		

FLIGHT MODES

FLIGHT MODES									
FM0 CRUISE		=0 0	=0 0	=0 0	=0 0	=0 0	=0 0	0.0s	0.0s
FM1 MOTOR ON	L01	=0	=1 0	=0	=0	=0	=0	0.0s	0.0s
FM2 LANDING	L02	=0	=2 0	=0	=0	=0	=0	0.4s	0.4s
FM3 SPEED	L03	=0	=3 0	=0	=0	=0	=0	0.0s	0.0s
FM4 DISTANCE	L04	=0	=4 0	=0	=0	=0	=0	0.0s	0.0s
FM5 THERMAL V	L05	=0	=6	=0	=0	=0	=0	0.0s	0.0s
FM6 THERMAL	L06	=0	=6 0	=0	=0	=0	=0	0.0s	0.0s
FM7		=0	=0	=0	=0	=0	=0	0.0s	0.0s
FM8		=0	=0	=0	=0	=0	=0	0.0s	0.0s

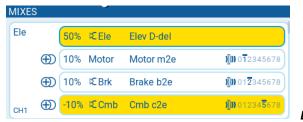
Note: FM7, FM8 = Not used

FLIGHT MODES		FLIGHT MODES FM5			
Name	SPEED	Name	THERMAL V		
Switch	L03 🗸	Switch	L05 🗸		
Fade in	0.0	Fade in	0.0		
Fade out	0.0	Fade out	0.0		
Trims		Trims			
🛱 Rud 😑 0 🖍	<b>₿Ele</b> = 3 ♥ 0	<b>₿ Rud</b> = 0 🗸	🛱 Ele 🗧 6 💙		
🛢 Thr 😑 🗸	₿ Ail = 0 🗸	🛱 Thr 😑 0 🖍	🛱 Ail 🛛 = 0 🗸		
₿T5 = 0 🗸	<b>₿T6</b> = 0 ❤	₿T5 = 0 ¥	<b>₿ T6</b> = 0 🗸		

#### MIXES

# CH1-CH2 for X-tail

CH1:Ele	I2:Ele Weight(+50%) Diff(-GV7:del) [Elev] += CH6:Motor Weight(+10%) Flight mode(FM1:MOTOR ON) NoTrim Custom(CV13:m2e) [Motor] += I3:Brk Weight(+10%) Flight mode(FM2:LANDING) NoTrim Custom(CV14:b2e) [Brake] += <mark>I5:Cmb</mark> Weight(-10%) Flight mode(FM5:THERMAL V) NoTrim Custom(CV15:c2e) [Cmb]
CH2:Rud	I4:Rud Weight(+50%) [Rudder] += I1:Ail Weight(+GV6:a2r) NoTrim [Ai2Ru]



#### Elevator mixes

Ele	KES	CHO	01 Ele 0% 0%	1500us	MIXES Ele			
Name	Cmb				Multiplex	Add 🗸		
Source	KCmb ✔				Modes	0 1	1 2 3 4	4
Weight	-10% GV	Offset	0% GV		Modes	5 6	5 7 8	
Switch	- •	Curve	Cstm 🗙 c2e 🗙		Trim		Warning	OFF
		•			Delay up	0.0s	Delay down	0.0s
					Slow up	0.0s	Slow down	0.0s

Variable camber

#### CH1-CH2 for V-tail

CH1:Vt_L	<pre>I2:Ele Weight(+40%) Diff(-GV7:del) [Elev] += I4:Rud Weight(-40%) Diff(-GV8:dru) [Rudder] += I1:Ail Weight(-GV6:a2r) NoTrim Diff(-GV8:dru) [Ai2Rud] += CH6:Motor Weight(+10%) Flight mode(FM1:MOTOR ON) NoTrim Custom(CV13:m2e) [Motor] += I3:Brk Weight(+10%) Flight mode(FM2:LANDING) NoTrim Custom(CV14:b2e) [Brake] += 15:Cmb Weight(-10%) Flight mode(FM5:THERMAL V) NoTrim Custom(CV15:c2e) [Cmb]</pre>
CH2:Vt_R	<pre>I2:Ele Weight(+40%) Diff(-GV7:del) [Elev] += I4:Rud Weight(+40%) Diff(-GV8:dru) [Rudder] += I1:Ail Weight(+GV6:a2r) NoTrim Diff(-GV8:dru) [Ai2Ru] += CH6:Motor Weight(+10%) Flight mode(FM1:MOTOR ON) NoTrim Custom(CV13:m2e) [Motor] += I3:Brk Weight(+10%) Flight mode(FM2:LANDING) NoTrim Custom(CV14:b2e) [Brake] += I5:Cmb Weight(-10%) Flight mode(FM5:THERMAL V) NoTrim Custom(CV15:c2e) [Cmb]</pre>

MIXE	S				
Vt_L		40%	<b>©</b> Ele	Elev D-del	
	$\oplus$	-40%	€Rud	Rudder D-dru	
	⊕	-a2r	I€ Ail	Ai2Rud D-dru	
	⊕	10%	Motor	Motor m2e	<b>₩</b> 0 <b>1</b> 2345678
	$\oplus$	10%	I€ Brk	Brake b2e	<b>₩</b> 01 <b>2</b> 345678
CH1	Ð	-10%	KC Cmb	Cmb c2e	<b>)))))</b> 01234 <mark>5</mark> 678

#### V-tail Left mixes

X MIX Vt_	XES L	CHO P	01 Vt_L 0% 0%	6	Ous MIXES Vt_L						
Name	Cmb				Multiplex	Add 🗸					
Source	ƘCmb ✔				Modes	0	1	2	3	4	
Weight	-10% GV	Offset	0%	GV	modes	5	6	7	8		
Switch	- •	Curve	Cstm 🗸	c2e 🗙	Trim			Warn	ing		OFF
		•			Delay up	0.0	5	Delay	/ down		0.0s
					Slow up	0.0	6	Slow	down		0.0s

Variable camber

Vt_R					
		40%	IC Ele	Elev D-del	
(	Ð	40%	KC Rud	Rudder D-dru	
(	Ð	a2r	I€ Ail	Ai2Ru D-dru	
(	Ð	10%	Motor	Motor m2e	<b>)))))</b> 0 <mark>1</mark> 2345678
(	Ð	10%	l€ Brk	Brake b2e	<b>)))))</b> 01 <b>2</b> 345678
CH2 (	Ð	-10%	KC Cmb	Cmb c2e	<b>I))</b> ₩ 01234 <mark>5</mark> 678

V-tail Right mixes

Name Cmb Multiplex Add V	
Manuplex Add	
Source 12 Cmb V 0 1 2 3 4	
Weight         -10%         GV         Offset         0%         GV         5         6         7         8	
Switch – V Curve Cstm V c2e V Trim Warning	OFF
Delay up 0.0s Delay down	0.0s
	0.0s

# CH3-CH4 for Aileron

+= TrmA Weight(+15%) [Trim] += I3:Brk Weight(+30%) Flig += MAX Weight(+GV2:cal) NoT	im Diff(-GV1:dif) [Ailer] ht mode(FM2:LANDING) NoTrim [Brake] rim [CmbSet] ht mode(FM5:THERMAL V) NoTrim Diff(10%) [CmbVar]
T= 13.CMD Weight(-10%) Filg	inc mode (FMS.INERNAL V) NOITIM DITT(103) [CHOVAI]
CH4:Ail_R I1:Ail Weight(+50%) NoTr: += TrmA Weight(+15%) [Trim]	m Diff(GV1:dif) [Ailer]
+= I3:Brk Weight(-30%) Flight	nt mode(FM2:LANDING) NoTrim [Brake]
+= MAX Weight(-GV3:car) NoT	im [CmbSet]
	nt mode (FM5:THERMAL V) NoTrim Diff(-10%) [CmbVar]
	······································

MIXES											
	Ail_L	50%	K Ail	Ailer D-dif							
	$\oplus$	15%	₿ Ail	Trim							
	$\oplus$	30%	I€ Brk	Brake	<b>)))))</b> 01 <b>2</b> 345678						
	$\oplus$	cal	MAX	CmbSet							
	$\oplus$	-10%	KC mb	CmbVar D10%	<b>₩</b> 01234 <b>5</b> 678						

Aileron Left mixes

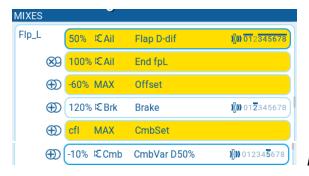
MIX Ail_		CH03 Ail_L 0% 0%	1500us	MIXES Ail_L			
Name	CmbVar			Multiplex	Add 🗸		
Source	KCmb ✔			Modes	0 1	2 3	4
Weight	-10% GV	Offset 0%	GV	Modes	5 6	7 8	
Switch	- ~	Curve Diff 💙	10% GV	Trim		Warning	OFF
		\$		Delay up	0.0s	Delay down	0.0s
		•		Slow up	0.0s	Slow down	0.0s
Variable	e camber						
MIXES							
Ail_R	50% I€ Ail	Ailer Ddif					
Œ	🕥 15% 🏼 🗍 Ail	Trim					
€	⑦ -30% 応Brk	Brake	₩01 <b>2</b> 345678				
Œ	🗩 <mark>-car MAX</mark>	CmbSet					
Œ	D 10% ₺Cmb	CmbVar D-10%	Ŋ₩ 01234 <mark>5</mark> 678	Aileron Rig	ht mixes		

MI Ail	XES _R	CH	04 Ail_R 0% 0%		Ail_R							
Name	CmbVar				Multiplex	Add 🗸						
Source	€Cmb ¥				Modes	0	1	2	3	4		
Weight	10% GV	Offset	0%	GV	Modes	5	6	7	8			
Switch	- ~	Curve	Diff 🖌	-10% GV	Trim			Warni	ng		OFF	
		•			Delay up	0.0s		Delay	down		0.0s	
Variable	e camber				Slow up	0.0s		Slow	down		0.0s	

CH8:Flp\_R

I1:Ail Weight(+50%) Flight modes(FM0:CRUISE, FM1:MOTOR ON, FM3:SPEED, FM
\*= I1:Ail Weight(+100%) NoTrim Custom(CV10:fpL) [End]
+= MAX Weight(-60%) NoTrim [Offset] CH7:Flp\_L

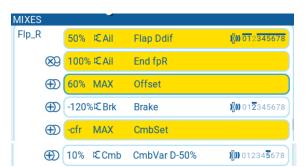
- += I3:Brk Weight(+120%) Flight mode(FM2:LANDING) NoTrim [Brake] += MAX Weight(+GV4:cfl) NoTrim [CmbSet] += I5:Cmb Weight(-10%) Flight mode(FM5:THERMAL V) NoTrim Diff(50%) [CmbVar]
- I1:Ail Weight(+50%) Flight modes(FM0:CRUISE, FM1:MOTOR ON, FM3:SPEED, FM4
- += I3:Brk Weight(-120%) Flight mode(FM2:LANDING) NoTrim [Brake]
- += MAX Weight (-CV5:cfr) NoTrim [CmbSet] += I5:Cmb Weight (+10%) Flight mode (FM5:THERMAL V) NoTrim Diff(-50%) [CmbVar]



Flap Left mixes

MI) Flp	XES _L	CH0	-6	1193us 50% 50%	MIXES Flp_L						
Name	CmbVar				Multiplex	Add 🗸					
Source	l€Cmb ∨				Modes	0	1	2	3	4	
Weight	-10% GV	Offset	0% GV		Wodes	5	6	7	8		
Switch	- •	Curve	Diff 🖌 5	50% GV	Trim			Warn	ing		OFF
		•			Delay up	0.0s	5	Delay	/ down		0.0s
Variable	e camber	•			Slow up	0.0	5	Slow	down		0.0s





Flap Right mixes

MIX Flp	XES _R	CHI	08 Flp_R 1 60% 60%	1807us	MIXES Flp_R						
Name	CmbVar				Multiplex	Add 🗸					
Source	l€Cmb ∨				Modes	0	1	2	3	4	
Weight	10% GV	Offset	0% GV		modes	5	6	7	8		
Switch	- •	Curve	Diff 🗙 -50% GV	v	Trim			Warn	ing		OFF
		•			Delay up	0.0s		Delay	down		0.0s
Variable	e camber	•			Slow up	0.0s		Slow	down		0.0s

Magnus Hedlund

## Preparation – Camber++

## <u>MIXES</u>

## CH3-CH4 for Aileron

CH4:Ail_R I1:Ail Weight(+50%) NoTrim Diff(GV1: += TrmA Weight(+15%) [Trim] += I3:Brk Weight(-30%) Flight mode(FM2: += MAX Weight(-GV3:car) NoTrim [CmbSet] += I5:Cmb Weight(+10%) Flight mode(FM5:	LANDING) NoTrim [Brake] ] THERMAL V) NoTrim Diff(10%) [CmbVar] RUISE, FM5:THERMAL V, FM6:THERMAL) Switch(SH4) NoTrim [Cmb++] :dif) [Ailer] :LANDING) NoTrim [Brake]
MIXES COL MARK SINGSCL	
⊕ -10% ₺ Cmb CmbVar D10% ᢧ012345678	
① 10% MAX Cmb++ SH     ③ 12345678	Aileron Left mixes
MIXES CH03 Ail_L 1500us Ail_L 0%	MIXES Ail_L
Name Cmb++	Multiplex Add V
Source MAX 🗸	Modes 0 1 2 3 4
Weight 10% GV Offset 0% GV	5 6 7 8
Switch SH& Curve Diff V 0% GV	Trim Warning OFF
•	Delay up 0.0s Delay down 0.0s
Camber++	Slow up 0.0s Slow down 0.0s
MIXES	
MILLES COL MILLE ON DOCL	
⊕ 10% ▷ Cmb CmbVar D-10%      № 012345678	
⊕ -10% MAX Cmb++ SH& )))#012345678	Aileron Right mixes
MIXES CH04 Ail_R 1500L Ail_R 0%	AILR
Name Cmb++	Multiplex Add 💙
Source MAX V	Modes 0 1 2 3 4
Weight -10% GV Offset 0% GV	5 6 7 8
Switch SH& Curve Diff V 0% GV	Trim Warning OFF
\$	Delay up 0.0s Delay down 0.0s
Camber++	Slow up 0.0s Slow down 0.0s

Camber++

CH7:Flp_L CH8:Flp_R	<pre>*= I1:Ail Weight(+100%) NoTrim Custom(CV10:fpL) [End] += MAX Weight(-60%) NoTrim [Offset] += I3:Brk Weight(+10%) Flight mode(FM2:LANDING) NoTrim [Brake] += MAX Weight(+GV4:cfl) NoTrim [CmbSet] += I5:Cmb Weight(-10%) Flight mode(FM5:THERMAL V) NoTrim Diff(50%) [CmbVar] += MAX Weight(+10%) Flight modes(FM0:CRUISE, FM5:THERMAL V, FM6:THERMAL) Switch(SH4) NoTrim [Cmb++] CH8:Flp_R I1:Ail Weight(+10%) NoTrim Custom(CV11:fpR) [End] *= I1:Ail Weight(+60%) NoTrim [Offset] += I3:Brk Weight(-120%) Flight mode(FM2:LANDING) NoTrim [Brake] += I3:Brk Weight(-GV5:cfr) NoTrim [CmbSet] += Si:Cmb Weight(+10%) Flight mode(FM5:THERMAL V) NoTrim Diff(-50%) [CmbVar] += MAX Weight(-10%) Flight mode(FM5:THERMAL V) NoTrim Diff(-50%) [CmbVar] += MAX Weight(-10%) Flight mode(FM0:CRUISE, FM5:THERMAL V, FM6:THERMAL) Switch(SH4) NoTrim [Cmb++]</pre>													
		oVar D50% o++ SH&	ນ)ິ່ງ 01234 ນ)ິ່ງ ທີ 01234	$\equiv$	Flap Le	eft mixes								
	MIXES Flp_L  CH07 Flp_L  1193us Flp_L  MIXES Flp_L  Flp_L													
	mb++			0010		Multiplex	Add 🗸							
-	1AX 🗸 10% GV	Offset	0%	GV		Modes	0 1 5 6	2 3 7 8	4					
Switch S	нФ 🗸	Curve	Diff 🗸	0%	GV	Trim		Warning	OFF					
		•				Delay up	0.0s	Delay down	0.0s					
Camber+						Slow up	0.0s	Slow down	0.0s					
	+													
MIXES		CmpSet												
Ð	10% ⊯Cmb	CmbVar	D-50%	<b>N)))</b> 0123	34 <b>5</b> 678									
Ð	-10% MAX	Cmb++ S	бНФ	<b>)))) 0</b> 123	34 <b>56</b> 78	Flap Right m	ixes							
MIXI Flp_		CH	108 Flp_R 609 609		1807us	MIXES Flp_R								
Name	Cmb++					Multiplex	Add 💙							
Source	мах 🗸					Modes	0 1	2 3	4					
Weight	-10% GV	Offset	0%	GV		Wodes	5 6	7 8						
Switch	witch SH& Curve Diff V 0% GV Trim Warning OFF													
		•				Delay up	0.0s	Delay down	0.0s					
Camber+	mber++ Slow up 0.0s Slow down 0.0s													

## **Preparation – SnapFlap**

## **MIXES**

### CH3-CH4 for Aileron

CH3:Ail_L	+= TrmA Weight += I3:Brk Weig += MAX Weight( += I5:Cmb Weig += MAX Weight(	(+15%) [Trim] ht(+30%) Fligh +GV2:cal) NoTr ht(-10%) Fligh +10%) Flight m	m Diff(-GV1:dif) [Ailer] t mode(FM2:LANDING) NoTr: im [CmbSet] t mode(FM5:THERMAL V) No' odes(FM0:CRUISE, FM5:THE] t modes(FM0:CRUISE, FM3:	Trim Diff(10%) [ RMAL V, FM6:THER	MAL) Switch(SH.)		NoTrim Diff(50%)	[SnpFlp]
CH4:Ail_R	+= TrmA Weight += I3:Brk Weig += MAX Weight( += I5:Cmb Weig += MAX Weight(	(+15%) [Trim] ht(-30%) Fligh -GV3:car) NoTr ht(+10%) Fligh -10%) Flight m	<pre>m Diff(GV1:dif) [Ailer] t mode(FM2:LANDING) NoTr: im [cmbSet] t mode(FM5:THERMAL V) No odes(FM0:CRUISE, FM5:THEI t modes(FM0:CRUISE, FM5:THEI</pre>	Trim Diff(-10%) RMAL V, FM6:THER	MAL) Switch(SH <sub>↓</sub> )		NoTrim Diff(-50%)	[SnpFlp]
MIXES								
		CmbVar D10	% ŊŊ 01234 <b>5</b> 678					
Ð		CmbVar D10						
Ð		Cmb++ SH₽						
снз 🕀	-10% <sup>I</sup> Ele	SnpFlp D50%	6 <b>)∬10</b> 012 3456 78	Aileron Le	ft mixes			
MIXE	S	CH03 A		MIXES				
X Ail_L			0% 0%	Ail_L				
Name S	inpFlp			Multiplex	Add 💙			
Source 🛛	Ele 🗡			Modes	0 1	2 3	4	
Weight	-10% GV	Offset	0% GV	modee	5 6	7 8		
Switch -	- 🗸	Curve Diff	f 🕶 50% GV	Trim		Warning	OFF	
		•		Delay up	0.0s	Delay down	0.0s	
SnapFlap	•			Slow up	0.0s	Slow down	0.0s	
MIXES		Chibbet						
Ð	) 10% ⊯Cmb	CmbVar D-10	<b>)% )))))</b> 01234 <b>5</b> 678					
Œ	-10% MAX	Cmb++ SH₽						
сн4 🕀	10% ≮Ele	SnpFlp D-50	% Ŋ <b>Ŋ 0</b> 12 <b>3456</b> 78	Aileron Ri	aht miyoo			
N.				Alleron Ki	gin inixes			
MIXE Ail_R	S	CH04 A	il_R 1500us 0% 0%	MIXES Ail_R				
Name S	npFlp			Multiplex	Add 🗸			
Source 🛛	Ele 🗸				0 1	2 3 4	4	
Weight	10% GV	Offset	0% GV	Modes	5 6	7 8		
Switch -	. 🗸	Curve Diff	f ❤ -50% GV	Trim		Warning	OFF	
		\$		Delay up	0.0s	Delay down	0.0s	
		*		Slow up	0.0s	Slow down	0.0s	
SnapFlap	)							

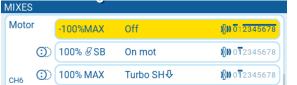
CH8:Flp_R	<pre>+= I3:Brk Weig += MAX Weight( += I5:Cmb Weig += MAX Weight( += I2:Ele Weig I1:Ail Weig *= I1:Ail Weig += MAX Weight( += I3:Brk Weight( += I5:Cmb Weig += MAX Weight(</pre>	-60%) NoTrim [Offset] ht(+120%) Flight mode +GV4:cfl) NoTrim [Cmb ht(-10%) Flight modes (Flight modes) (Flight modes) ht(+10%) Flight modes ht(+10%) NoTrim [Offset] ht(-120%) Flight modes (-GV5:cfl) NoTrim [Cmb ht(+10%) Flight modes (Flight modes) (Flight modes) ht(+10%) Flight modes	<pre>(FM2:LANDING) Not Set] Set] (FM5:THERMAL V) Not 00:CRUISE, FM3: (FM0:CRUISE, FM3: (FM0:CRUISE, FM3: com(CV11:fpR) [End (FM2:LANDING) Not Set] (FM5:THERMAL V) Not 00:CRUISE, FM5:TH)</pre>	DTrim Diff(50%)   CRMAL V, FM6:THEF SPEED, FM4:DIST MOTOR ON, FM3:SI ] Frim [Brake] DTrim Diff(-50%) SRMAL V, FM6:THEF	MAL) Switch(SH NCE, FM5:THERM PEED, FM4:DISTA [CmbVar] MAL) Switch(SH	AL V, FM6:THERMAL) NCE, FM5:THERMAL V 4) NoTrim [Cmb++]	, FM6:THERMAL, FN	M7, FM8) No
MIXES		omboet						
Ð	-10% ©Cmb	CmbVar D50%	<b>₩</b> 01234 <b>5</b> 678					
$\oplus$	10% MAX	Cmb++ SH₽	<b>I))))) 0</b> 1234 <b>56</b> 78					
сн7 🕀	-10% © Ele	SnpFlp D50%	)))) 012 <mark>3456</mark> 78					
				Flap Left n	nixes			
MIXES	3	CH07 Flp_L	-60% -60%	MIXES Flp_L				
Name Sr	npFlp			Multiplex	Add 🗸			
Source 🗵	Ele 🗸				0 1	2 3	4	
Weight	-10% GV	Offset 0%	GV	Modes	5 6	7 8		
Switch -	~	Curve Diff 💙	50% GV	Trim		Warning	OFF	
		\$		Delay up	0.0s	Delay down	0.0s	
SnapFlap				Slow up	0.0s	Slow down	0.0s	
MIXES								
		ompoer						
$\oplus$	10% ₺Cmb	CmbVar D-50%	Ŋ) 01234 <u>5</u> 678					
$\oplus$	-10% MAX	Cmb++ SH₽	<b>Ŋ₩ 0</b> 1234 <b>56</b> 78					
снв 🕀	10% <sup>I</sup> Ele	SnpFlp D-50%	))))) 012345678	Flap Righ	t mixes			
MIXES	8	CH08 FIP_R 60%	1807us	MIXES				
Flp_R		60%		K Flp_R				
_	npFlp			Multiplex	Add 💙			
	Ele 💙			Modes	0 1		4	
Weight	10% GV	Offset 0%	GV	Trim	5 6	7 8 Warning	OFF	
Switch	~	Curve Diff 💙	-50% GV	Trim Delay up	0.0s	Warning Delay down	OFF 0.0s	
		\$		Slow up	0.0s	Slow down	0.0s	
SnapFlap				Slow up	0.05	SIOW DOWI	0.05	

## **Preparation – Motor Turbo**

### **MIXES**

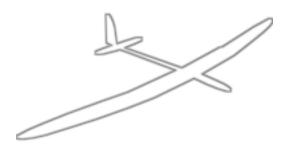
### CH6 for Motor

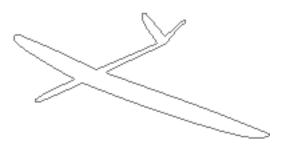
CH6:Motor MAX Weight(-100%) Flight modes(FM0:CRUISE, FM2:LANDING, FM3:SPEED, FM4: = SB Weight(+100%) Flight mode(FM1:MOTOR ON) NoTrim Custom(CV12:mot) [On] = MAX Weight(+100%) Flight mode(FM1:MOTOR ON) Switch(SH4) NoTrim [Turbo]



Motor mixes

MD Mo	XES tor	CHI	06 Motor	988 -100% -100%	MIXES Motor						
Name	Turbo				Multiplex	Replace	• ~				
Source	MAX 🗸				Modes	0	1	2	3	4	
Weight	100% GV	Offset	0%	GV	wodes	5	6	7	8		
Switch	ѕнֆ ∨	Curve	Diff 🗸	0% GV	Trim			Warn	ing		OFF
		•			Delay up	0.0s	;	Delay	/ down		0.0s
Turbo					Slow up	0.0s	3	Slow	down		0.0s





Extended Configuration Template Download: Glider-X Extend Glider-V Extend

(Including: F5J Time, Chronograph

## **Setup (Extended Configuration)**

## CAMBER SPEED

### Aileron Left

39) Setup camber for left aileron using Weight cal (Flight Modes).

X Ail	XES _L			C L	:H03		0% 0%		1500us
Name	Cmb	Set							
Source	MAX	~							
Weight	cal 1	<u>~</u> ]	GV	Offset		0%	GV		
Switch	- •	•]		Curve	[	Diff 💙		0%	GV
MIXES	S – A	Ail_L							
GLOBAL	. VARI	ABL ES							
cal	FM0	FM1	FM2	FM3	FM4	FM5	FM6	FM7	

(	cal	FM0 0%	FM1 FM0	FM2 FM0	FM3 -10%		FM5 FM6			FM8 FM0			
	car	FM0 0%			FM3 -10%					FM8 FM0			
	cfl	FM0 0%			FM3 -10%		FM5 FM6			FM8 FM0			
	cfr	FM0 0%			FM3 -10%	FM4 -5%	FM5 FM6		FM7 FM0	FM8 FM0			

GLOBAL VARIABLES – cal

### Flap Left

41) Setup camber for left flap using Weight cfl (Flight Modes).

MI) Flp	KES _L		CHO	7 Flp_L	-60% -60%	1193us
Name	CmbSet					
Source	MAX 🗸					
Weight	cfl 💙	GV	Offset	0%	GV	
Switch	- •		Curve	Diff 🖌	0%	GV
MIXES	S – Flp_	L				

GLOBAI	_ VARI	ABLES							
dif	FM0	FM1	FM2	FM3	FM4	FM5	FM6	FM7	FM8
	0%	FM0	FM0	FM4	0%	FM6	0%	FM0	FM0
cal	FM0	FM1	FM2	FM3	FM4	FM5	FM6	FM7	FM8
	0%	FM0	FM0	-10%	-5%	FM6	10%	FM0	FM0
car	FM0	FM1	FM2	FM3	FM4	FM5	FM6	FM7	FM8
	0%	FM0	FM0	-10%	-5%	FM6	10%	FM0	FM0
cfl	FM0	FM1	FM2	FM3	FM4	FM5	FM6	FM7	FM8
	0%	FM0	FM0	-10%	-5%	FM6	10%	FM0	FM0
cfr	FM0	FM1	FM2	FM3	FM4	FM5	FM6	FM7	FM8
	0%	FM0	FM0	-10%	-5%	FM6	10%	FM0	FM0
GLOE	BAL	VAR	IAB	LES	– cf	1			

### Aileron Right

40) Setup camber for right aileron using Weight car (Flight Modes).

X Ail	XES _R	CHO	4 Ail_R 0% 0%	1500us
Name	CmbSet			
Source	MAX 🗸			
Weight	-car 🗙 🛛 GV	Offset	0% G	V
Switch	- •	Curve	Diff 🗸	0% GV
MIXES	– Ail_R			

GLOBAL	VARI	ABLES							
cal	FM0	FM1	FM2	FM3	FM4	FM5	FM6	FM7	FM8
	0%	FM0	FM0	-10%	-5%	EM6	10%	FM0	FM0
car	FM0	FM1	FM2	FM3	FM4	FM5	FM6	FM7	FM8
	0%	FM0	FM0	-10%	-5%	FM6	10%	FM0	FM0
cfl	FM0 0%	FM1 FM0	FM0	-10%	-5%	FM6	10%	FM7 FM0	FM8 FM0
cfr	FM0	FM1	FM2	FM3	FM4	FM5	FM6	FM7	FM8
	0%	FM0	FM0	-10%	-5%	FM6	10%	FM0	FM0
GI OR	ΔΙΛ	/ARI	ΔRI	ES -	car				

GLOBAL VARIABLES - car

42) Setup camber for right flap using Weight cfr (Flight Modes).

MI Flp	XES _R	CHO	08 Flp_R 60% 60%	1807us			
Name	CmbSet						
Source	MAX 🛰						
Weight	-cfr 🗙 🛛 GV	Offset	0% (	GΛ			
Switch	- •	Curve	Diff 🗸	0% GV			
MIXES	MIXES – Flp_R						
GLOBAL	VARIABLES						

dif	FM0 0%	FM1 FM0	FM2 FM0	FM3 FM4	FM4 0%	FM5 FM6	FM6 0%	FM7 <b>FM0</b>	FM8 FM0	J								
cal	FM0 0%	FM1 FM0	FM2 FM0	FM3 -10%	FM4 -5%	FM5 FM6	FM6 10%	FM7 FM0	FM8 FM0									
car	FM0 0%	FM1 FM0	FM2 FM0	FM3 -10%	FM4 -5%	FM5 FM6	FM6 10%	FM7 FM0	FM8 FM0									
cfl	FM0 0%	FM1 FM0	FM2 FM0	FM3 -10%	FM4 -5%	FM5 FM6	FM6 10%	<sup>FM7</sup> FM0	FM8 FM0									
cfr	FM0 Ω%	FM1 FM0	FM2 FM0	FM3 -10%	FM4 -5%	FM5 FM6	FM6 10%	FM7 FM0	FM8 FM0									
GLOE	BAL	VAR	IAB	LES	– cf	r				COBAL VARIABLES – cfr								

## VARIABLE CAMBER

### Aileron Left

43) Adjust the camber up and down with Weight and Diff.

X Ail_	XES _L	CH0	3 Ail_L 0% 0%	1500us
Name	CmbVar			
Source	l€Cmb ❤			
Weight	-10% GV	Offset	0%	GV
Switch	- •	Curve	Diff 🗸	10% GV
MIXES	S – Ail_L			

### Flap Left

45) Adjust the camber up and down with Weight and Diff.

X MI	XES _L	CHO	7 Flp_L	1193us -60% -60%
Name	CmbVar			
Source	I€ Cmb ➤			
Weight	-10%) GV	Offset	0%	GV
Switch	- •	Curve	Diff 🗸	50% GV
MIXES	S – Flp_L			

## Elevator for X-tail

47) Setup camber to elevator mix with Weight and curve CV15:c2e.

Ele	XES	CHO	1 Ele 0% 0%	
Name	Cmb			
Source	€Cmb ¥			
Weight	-10% GV	Offset	0%	GV
Switch	- •	Curve	Cstm 💙	c2e 🗙
MIXES	S – Ele			

ame	c2e		Smooth	<mark>3,0</mark>
Туре	Stan	dard 🗸	3pts	
1	2	3		
X -100	0	100		
Y (-10)	0	5		

## Aileron Right

44) Adjust the camber up and down with Weight and Diff.



### Flap Right

46) Adjust the camber up and down with Weight and Diff.



## Elevator for V-tail

47) Setup camber to elevator mix with Weight and curve CV15:c2e.







## CAMBER++

### Aileron Left

48) Setup extra camber for left aileron using Weight.

X Ail_	KES _L	CHO	3 Ail_L 0% 0%	1500us
Name	Cmb++			
Source	MAX 🗸			
Weight	10% GV	Offset	0% (	GV
Switch	ѕнФ 🗸	Curve	Diff 🗸	0% GV
MIXES	S – Ail_L			

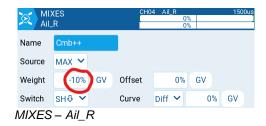
### Flap Left

50) Setup extra camber for left aileron using Weight.

MI Flp	XES o_L	CHO	)7 Flp_L	1193us -60% -60%
Name	Cmb++			
Source	MAX 🛩			
Weight	10%) GV	Offset	0%	GV
Switch	ѕн⊕ 🗸	Curve	Diff 🗸	0% GV
MIXES	S – Flp_L			

### Aileron Right

49) Setup extra camber for right aileron using Weight.



#### Flap Left

51) Setup extra camber for left aileron using Weight.

MI: Flp	XES _R	CHO	08 Flp_R 60% 60%		1807us
Name	Cmb++				
Source	MAX 🗸				
Weight	-10%) GV	Offset	0%	GV	
Switch	SH& 🗸	Curve	Diff 🖌	09	% GV
MIXE	S – Flp_R				

### **SNAPFLAP**

#### Aileron Left

52) Adjust the camber up and down with Weight and Diff.

X Ail	XES _L	CHO	3 Ail_L 0% 0%	
Name	SnpFlp			
Source	ÆEle ➤			
Weight	-10% GV	Offset	0%	GV
Switch		Curve	Diff 🗸	50% GV
MIXES	S–Ail L			

#### Flap Left

54) Adjust the camber up and down with Weight and Diff.

KII Flp	XES _L	CHO	07 Flp_L 1193us -60% -60%
Name	SnpFlp		
Source	ÆEle ❤		
Weight	-10% GV	Offset	0% GV
Switch	- ~	Curve	Diff 💙 50% GV
MIXES	S – Flp_L		

#### Aileron Right

53) Adjust the camber up and down with Weight and Diff.



#### Flap Right

55) Adjust the camber up and down with Weight and Diff.



## Setup after flight (Extended Configuration)

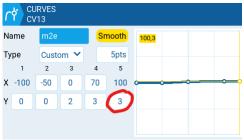
## MOTOR to ELEVATOR

### **Elevator**

C. Setup motor speed to elevator mix by using curve CV13:m2e.

Max (Turbo) speed = 100%.

Elevator mix value:



CURVES – CV13:m2e

## **Global Elevator Trim**

Use trim T6 as global elevator trim.

Trim T2 is used "as usual" for elevator trim, i.e. it sets elevator trim separate for every flight condition. Trim T6 is used, at the same time, and adjusts the elevator trim for all (wanted) flight conditions. This trim T6 is useful to set the elevator neutral position (when flying) for all flight conditions at the same time. It is still possible to adjust every flight condition individually with trim T2.

Elevator Trim = T2 + T6

If Global elevator trim is needed, then add a new mixer line.

### **MIXES**

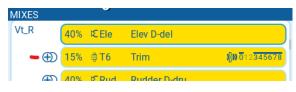
### CH1 for X-tail

CH1:Ele					del) [Elev] s(FM0:CRUISE,	FM3:	SPEED, FM4:DIST	ANCE, FM5:THEF	RMAL V, FM6:THERMAL	, FM7, FM8) N	oTrim <mark>(Trin</mark>
MIXES											
Ele	50%	<b>€</b> Ele	Elev D-de	el							
-0	D 15%	₿T6	Trim		<b>))))) 0</b> 12 <mark>3456</mark> 3	78					
a	10%	Motor	Motorm	20	1010700456		Elevator m	ixes			
MIX Ele	XES		CHO	01 Ele 0% 0%	6	500us	MIXES Ele				
Name	Trim						Multiplex	Add 🗸			
Source Weight	₿ T6 🗸 15%	GV	Offset	0%	GV		Modes	0 1 5 6	2 3 7 8	4	
Switch			Curve	Diff 🗸	0% GV		Trim		Warning	OFF	
			•				Delay up	0.0s	Delay down	0.0s	
Global 1							Slow up	0.0s	Slow down	0.0s	
	<b>H2 for V</b>	:Ele Wei m6 Weigh ·Pud Woi :Ele We:	ight (+15%) F	Diff(-GV7	:del) [Elev]				MAL V, FM6:THERMAL RMAL V, FM6:THERMAL		
MIXES					dani (Buddaa)						
Vt_L	40%	٤Ele	Elev D-de	el							
- 🕀		₿ T6	Trim		<b>)))) 0</b> 12 <mark>34567</mark>	8					
A	-40%	S Dud	Puddor P	)-dru		<b>F</b>	V-tail Left	mixes			
MD	XES		CHO	01 Vt_L 09		500u:	MIXES				

X MD Vt_	XES L	CHC P	01 Vt_L 0%	1500us	MIXES Vt_L			
Name	Trim				Multiplex	Add 🐱		
Source	₿T6 ¥				Modes	0 1	2 3	4
Weight	15% G	Offset	0% GV		Wodes	5 6	7 8	
Switch	- ~	Curve	Diff 💙 0%	GV	Trim		Warning	
		٠			Delay up	0.0s	Delay down	
	<b>-</b> ·	*			Slow up	0.0s	Slow down	

Global Trim

OFF 0.0s 0.0s



X MI	KES R		CH02	2 Vt_R 0% 0%		1500us
Name	Trim					
Source	₿T6 ¥					
Weight	15% (	GV Of	fset	0%	GV	
Switch	- ~	Cu	rve	Diff 🗸	0%	GV
			¢			
Global	Trim					

V-tail Right mixes

MIXES Vt_R			
Multiplex	Add 🗸		
Modes		1 2 3 4 6 7 8	
Trim		Warning	OFF
Delay up	0.0s	Delay down	0.0s
Slow up	0.0s	Slow down	0.0s

## **Dual Rate**

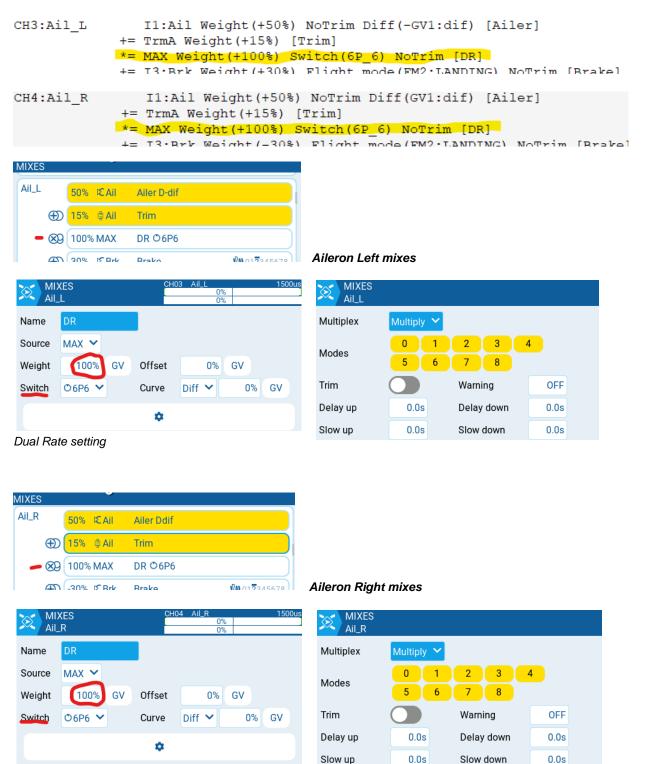
If Dual Rate is needed, then add a new mixer line.

For example Dual Rate for Ailerons and Flaps, when button 6P6 is activated:

### **MIXES**

#### CH3-CH4 for Aileron

Setup the Dual Rate for left- and right-aileron using Weight.



Dual Rate setting

Setup the Dual Rate for left- and right-flap using Weight.

	or left- and right-hap using weigh					
CH7:Flp_L	<pre>I1:Ail Weight(+ *= I1:Ail Weight(+</pre>					FM1:M [End]
	*= MAX Weight (+100				_	[End]
	+= MAX Weight (-60%		_		[]	
CH8:Flp_R	I1:Ail Weight(+		-			FM1:M
	<pre>*= I1:Ail Weight(+ *= MAX Weight(+100</pre>					[End]
	+= MAX Weight (+100		· · _ ·		[DR]	
MIXES						
	Flap D-dif <b>I)™</b> 012345678					
🛞 <mark>100% № Ail</mark>	End fpL					
- 🛞 100% MAX	DR ©6P6					
	Offert	Flap Left miz	kes			
MIXES Flp_L	CH07 Flp_L 1193us -60% -60%					
Name DR		Multiplex	Multiply 🗸			
Source MAX 🗸			0 1	2 3	4	
Weight 100% GV	Offset 0% GV	Modes	5 6	7 8		
Switch 06P6 V	Curve Diff V 0% GV	Trim		Warning	OFF	
	\$	Delay up	0.0s	Delay down	0.0s	
	÷	Slow up	0.0s	Slow down	0.0s	
Dual Rate setting						
MIXES						
Flp_R <mark>50% ⊄Ail</mark>	Flap Ddif 1)1012345678					
⊗ <mark>100% ⊯ Ail</mark>	End fpR					
- 🛞 100% MAX	DR ©6P6					
	Offect	Flap Right r	nixes			
MIXES	CH08 Flp_R 1807us	MIXES				
Flp_R	60% 60%	Flp_R				
Name DR		Multiplex	Multiply 🗙			
				2 3	4	
Source MAX Y		Modes	0 1			
Source MAX V Weight 100% GV	Offset 0% GV	Modes	5 6	7 8		
	Offset 0% GV Curve Diff ♥ 0% GV	Modes Trim			OFF	
Weight 100% GV	Curve Diff 💙 0% GV			7 8		
Weight 100% GV Switch ©6P6 ~		Trim	5 6	7 8 Warning	OFF	
Weight 100% GV	Curve Diff 💙 0% GV	Trim Delay up	5 6 0.0s	7 8 Warning Delay down	OFF 0.0s	
Weight 100% GV Switch ©6P6 ~	Curve Diff 💙 0% GV	Trim Delay up	5 6 0.0s	7 8 Warning Delay down	OFF 0.0s	
Weight 100% GV Switch ©6P6 ~	Curve Diff 💙 0% GV	Trim Delay up	5 6 0.0s	7 8 Warning Delay down	OFF 0.0s	
Weight 100% GV Switch ©6P6 ~	Curve Diff 💙 0% GV	Trim Delay up	5 6 0.0s	7 8 Warning Delay down	OFF 0.0s	

## F5J Time

Using SA $\clubsuit$  for start of 'F5J Time' and 'Flight' timers, i.e. going directly from SA $\clubsuit$  (motor off) to SA $\clubsuit$  (motor on).

Then SA- (motor off) to stop the 'F5J Time'.

Then SAT (motor off) to stop the 'Flight'.

For a video sequence showing F5J Time: Link



## MODEL SETUP

ner 1 F5J Time ON ♥ - ♥ 00:30 Name Flight Mode Switch L21 ♥ Switch L21 ♥ Direction Direction Mode Show Remain ♥ Mode Show Remain Mode Show Remain Name N	1 F5J Time	00:00:30 🗘 ON 🗸	Countdown	Voice v s	Start 10s 🗸	Minute Call	Not persister	nt
ner 1 F5J Time ON ♥ - ♥ 00:30 Name Name Mode Switch L21 ♥ Switch L21 ♥ Direction Show Remain ♥ Paul	ht	00:10:00 🗘 Start ∨ L2	21 V Countdown	Voice ~ S	Start 30s 🗸	Minute Call	Not persistent	
ON ~     Mode     Start ~       ON ~     Switch     L21 ~       O0:30     Start     10:00       Show Remain ~     Direction     Show Remain       all     Minute call     O	MODEL SETUP Timer 1		G		UP			
- ·     Switch     L21 ·       00:30     Start     10:00       n     Show Remain ·     Direction     Show Remain       all     Minute call     O	me F5J T	ime	Nam	e		F	light	
00:30     Start     10:00       Show Remain Y     Direction     Show Remain       all     Minute call     O	ode ON N	<ul> <li>Image: A set of the set of the</li></ul>	Mode	е		S	tart 🗸	
Show Remain     Direction     Show Remain       all     Minute call     O	itch – 🗸		Swite	ch		Ľ	21 🗸	
all Minute call	rt 00:3	30	Start				10:00	
	ction Show	Remain 💙	Direc	tion		s	how Rema	ain 🗸
Voice     10s     Countdown     Voice     30s	e call		Minu	te call				
	tdown Voice	e 🗸 10s 🖌	Cour	ntdown		V	oice 🗸 3	30s 🗸
ent OFF Y Persistent OFF Y	stent OFF	~	Pers	istent		0	FF 💙	
L SETUP – Timer 1 MODEL SETUP – Timer 2	EL SETUP – Timer 1		МОЕ	DEL SETUR	⊃ – Tin	ner 2		

#### **GLOBAL VARIABLES**

GVAR9	Tmr	0	<b>*</b>	$\sim$	0 ~	0	*	3	<b>÷</b> 🗆

GLOBAL	. VARI	ABLES				
Tmr						FM8 FM0

### LOGICAL SWITCHES

L20	AND ~	SA† ~	·	V	0,0	• 0,0 •
L21	AND ~	SAL ~	) v		0,0	• 0,0 •
L22	a=x ~	TMR 1:F5J Time	0:00:00 [h:mm:ss]	~	0,0	• 0,0 •
L23	OR ~	IL21 ~	L22 ~	~	0,0	• 0,0 •
L24	a=x ~	GV9:Tmr ~	0	~	0,0	• 0,0 •
L25	a=x ~	GV9:Tmr ~	0	L21 ~	0,0	0,0 0
L26	a=x ~	GV9:Tmr v	1	L23 ~	0,0	0,0 0
L27	a=x ~	GV9:Tmr v	2	L20 ~	0,0	0,0 0
L28	a=x ~	GV9:Tmr v	2	L22 ~	0,0	0,0 0
L29	a=x ~	GV9:Tmr v	2	L21 ~	0,0	\$ 3,0
L30	a=x ~	GV9:Tmr ~	3	L21 ~	0,0	\$ 3,0
L31	a=x ~	GV9:Tmr ~	3	1L21 ~	0,0	• 0,0 •
L32	a=x 🗸	TMR 1:F5J Time	0:00:15 [h:mm:ss]	v	0,0	• 0,0 •

LOGICAL SV	VITCHES		Ĩ	
L20 AND	SA企	-	-	
L21 AND	SA₽	_		
L22 a=x	F5J Time	00:00		
L23 OR	!L21	L22	-	
L24 a=x	GV9	0		
L25 a=x	GV9	0	L21	

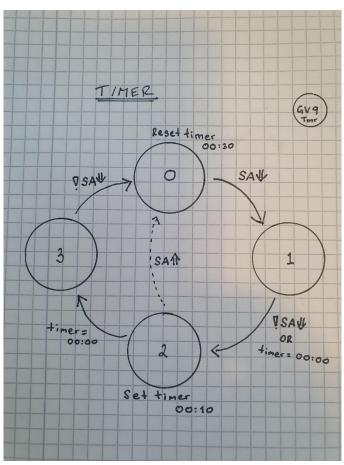
L26 a=x	GV9	1	L23	
L27 a=x	GV9	2	L20	
L28 a=x	GV9	2	L22	
L29 a=x	GV9	2	L21	3.0s
L30 a=x	GV9	3	L21	3.0s
L31 a=x	GV9	3	!L21	
L32 a=x	F5J Time	00:15		

## SPECIAL FUNCTIONS

F20 L25	~	Adjust GV9:Tmr	$\sim$	Value V 1	-	ON
F21 L26	~	Adjust GV9:Tmr	$\sim$	Value V	٢	🖂 ON
F22 L27	~	Adjust GV9:Tmr	$\sim$	Value v 0	\$	🖂 ON
F23 L28	~	Adjust GV9:Tmr	$\sim$	Value Value	٢	🖂 ON
F24 L31	~	Adjust GV9:Tmr	$\sim$	Value v 0	\$	🖂 ON
F25 L24	~	Reset	$\sim$	TMR1:F5J Time	$\sim$	🖂 ON
F26 L26	~	Set TMR1:F5J Time	$\sim$	0:00:10 [h:mm:ss]		🖂 ON
F27 L25	~	Play Track	$\sim$	start V		No repeat
F28 L26	~	Play Track	$\sim$	engoff v		No repeat
F29 L28	~	Play Track	$\sim$	off v		No repeat
F30 L29	~	Play Sound	$\sim$	Beep 1	$\sim$	No repeat
F31 L30	~	Play Track	$\sim$	fm-pwr v		Repeat 4s
F32 L32	~	Play Value	$\sim$	TMR1:F5J Time	~	No repeat
F33 L20	~	Reset	~	TMR2:Flight	~	🖂 ON

SPECIAL FUNC	CTIONS	
SF20 L25	Adjust - GV9 = 1	
SF21 L26	Adjust - GV9 = 2	
SF22 L27	Adjust - GV9 = 0	
SF23 L28	Adjust - GV9 = 3	
SF24 L31	Adjust - GV9 = 0	
SF25 L24	Reset - Timer 1	
SF26 L26	Set - Timer 1 = 00:10	

SF27 L25	Play Track - start	(1x)
SF28 L26	Play Track - engoff	(1x)
SF29 L28	Play Track - off	(1x)
SF30 L29	Play Sound - Beep1	(1x)
SF31 L30	Play Track - fm-pwr	(4s)
SF32 L32	Play Value - F5J Time	(1x)
SF33 L20	Reset - Timer 2	





F5J Time where SA is used for Motor on/off.

'F5J Time' and 'Flight' timers are included in Extended Configuration Templates.

## Chronograph (Timer 3)

• Timer 3 used as a Chronograph (Stopwatch). Switch SG used.

### MODEL SETUP

Timer 3 Chrono		00:00:00 🗘	ON V	SGĮ	Countdown	Silent	Start	20s 🗸	🗹 Minute Call
HODEL SETUP Timer 3									
Name	Chrono								
Mode	ON ¥								
Switch	SG₽ ✔								
Start	00:00								
Minute call									
Countdown	Silent 💙 20s 🍾								
Persistent	OFF 💙								

### SPECIAL FUNCTIONS

û ❤
vot. 🗙
set +
ner 3 💙

'Chronograph' is included in Extended Configuration Templates.

## **Voice - Chronograph or Receiver Quality**

- Voice for Chronograph (Timer 3) Short press on SI switch/button.
- Voice for RQly value (100% = Best Rx quality) Long press on SI switch/button

### LOGICAL SWITCHES

L09	Edge ~	SI. v	0,0	0,9	<b>*</b>	~	0,0	•
L 10	Edge ~	SIL ~	1,0	1,0 (infinite)	•	~	0,0	\$
L11	AND ~	L10 ~	Telemetry			~	0,0	\$ 0,0
L12	AND ~	L10 ~	!Telemetry		v	~	0,0	÷ 0,0

LOGICAL SWITCHES	}		LOGICAL SWITCHES	3
Function	Edge 💙		Function	Edge 💙
V1	si⊕ 🗸		V1	si⊕ 🗸
V2	0.0s	0.9s	V2	1.0s –
AND switch	- ~		AND switch	- 🗸
Duration	0.0s		Duration	0.0s
Delay	N/A		Delay	N/A

LOGICAL SWITCHES		LOGICAL SWITCHES	
Function	AND 💙	Function	AND 💙
V1	L10 💙	V1	L10 💙
V2	Tele 💙	V2	!Tele 💙
AND switch	- •	AND switch	- •
Duration	0.0s	Duration	0.0s
Delay	_	Delay	_

## SPECIAL FUNCTIONS

SF37 SI↓ V Play Value		V TMR3:Chrono	~	No repeat
SF38 L11 V Play Value		✓ TELE3:RQly	v	No repeat
SF39 L12 V Play Track		warning	<u> </u>	No repeat
SPECIAL FUNCTION: SF37	S			
SF37				
Trigger	L09 💙			
Function	Play Value 💙			
Value	Chrono 💙			
Repeat	1x			
SPECIAL FUNCTIONS	S			
Trigger	L11 🗸			
Function	Play Value 💙			
Value	🗟 RQIy 💙			
Repeat	1x			
SPECIAL FUNCTION SF39	S			
Trigger	L12 💙			
Function	Play Track 💙			
Value	warnng 🖿			
Repeat	1x			

'Chronograph or Receiver Quality' is included in Extended Configuration Templates.

## Low Battery

• Voice warning when Receiver/Motor Battery is too low.

3S = 9.3V 4S = 12.4V

## LOGICAL SWITCHES

L13 a <x< th=""><th>V TELE11:RxBt</th><th>✓ 9,3 V</th><th> <ul> <li>✓ 0,0</li> </ul></th></x<>	V TELE11:RxBt	✓ 9,3 V	 <ul> <li>✓ 0,0</li> </ul>
	CHES		
LOGICAL SWITC			
Function	a <x td="" 💙<=""><td></td><td></td></x>		
V1	් RxBt 🖌		
/2	9.3V		
AND switch	- ~		
Duration	0.0s		
Delay	-		

## SPECIAL FUNCTIONS

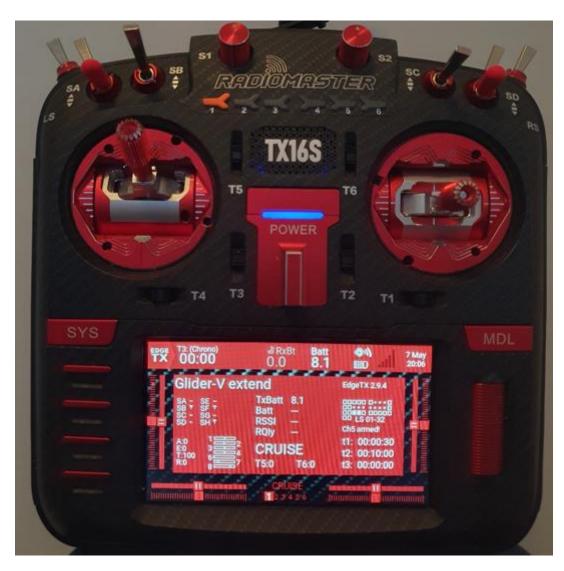
F40 L13 V Play Track	
SPECIAL FUNCTIO	NS
SF40	
Trigger	L13 💙
Function	Play Track 🗸
Value	lowbat 🖿
Repeat	5s

'Low Battery' is included in Extended Configuration Templates.

## Widgets

### <u>ShowAll</u>

This widget has been updated with the settings in this document and is originated from EdgeTX Clinic.



Widgets - Link (unzip the file)

Complete SD-Card Download with EdgeTX 2.9.4. Glider-X Basic Glider-Y-Basic Glider-X Extend Glider-V Extend F5J Time ShowAll

# **LINK**

\_\_\_\_\_

# Start Low – Fly High !