

# Function curve for Butterfly control, ButFlyFN.lc

9. november 2017 12:42

## Function curve for Butterfly control

This script enables a function curve for the Butterfly control input.

The current standard butterfly mixer uses a Control as a input, not a Function, and no function curve is possible.

My workaround is to create a new Function "Butterfly input", and for this function a function curve can be applied.

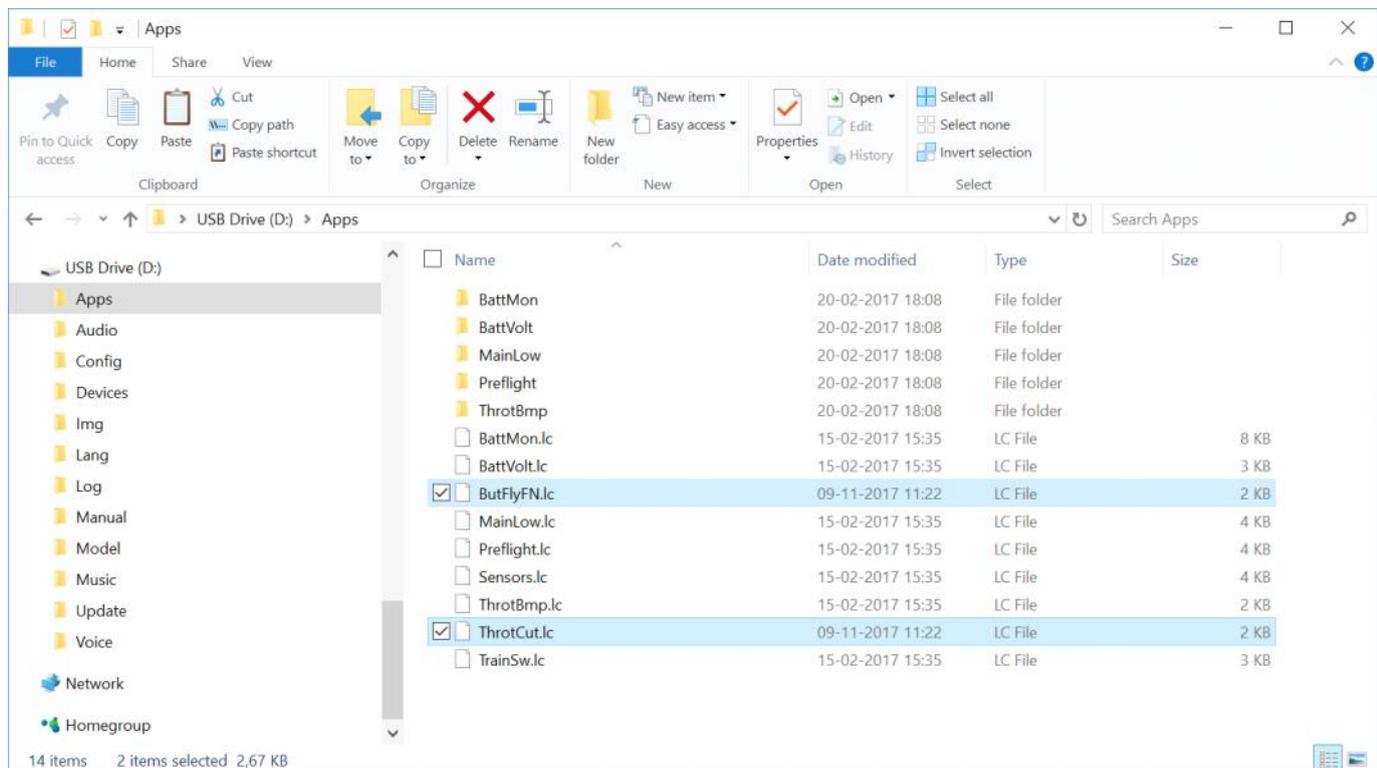
The function is assigned to an available servo.

The script reads the servo output and passes it on as a control output that can be used by the Butterfly mixer.

Discussed on Jeti forum July 2017.

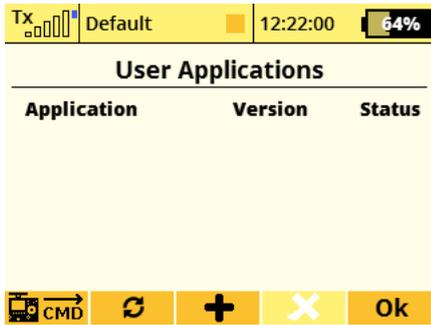
## Installation

Copy the file ButFlyFN.lc to the Apps folder on the transmitters SD card (via USB)

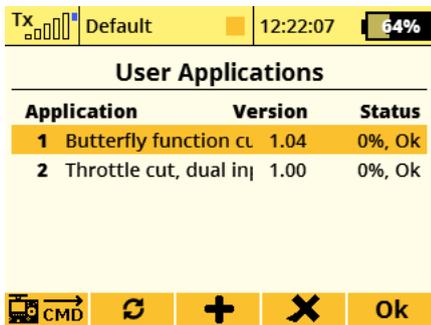
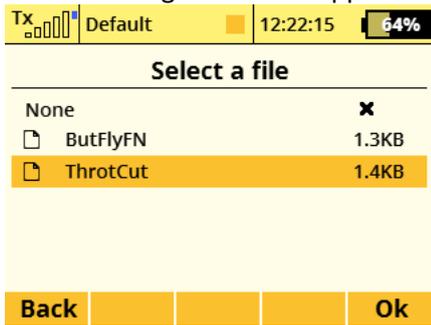


Go to Applications, User Applications

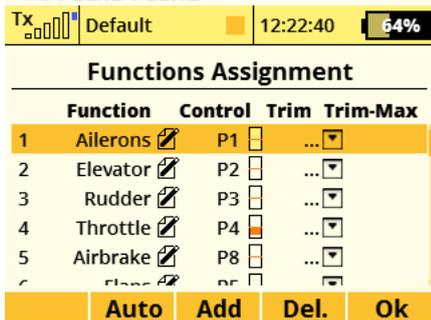
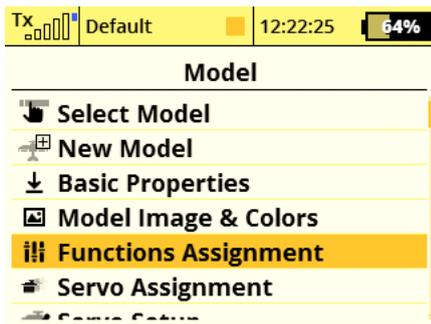




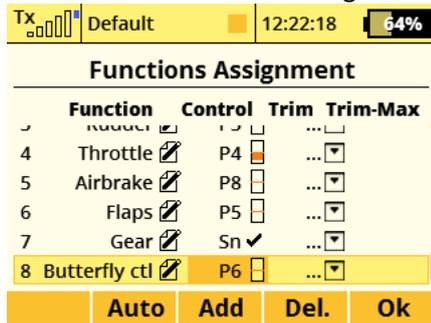
Press the + sign to add an application and select the ButFlyFN application



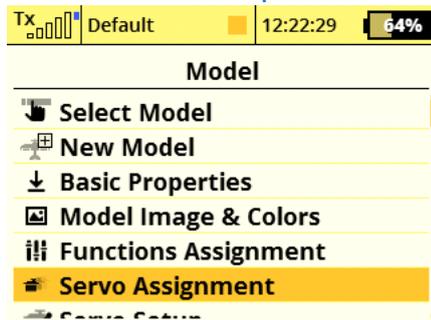
## Create butterfly input function



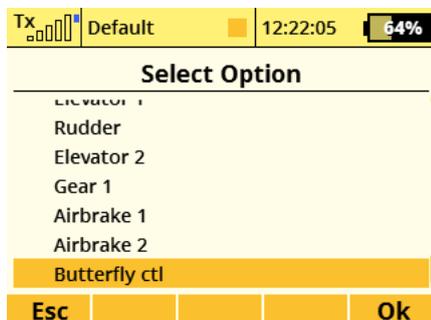
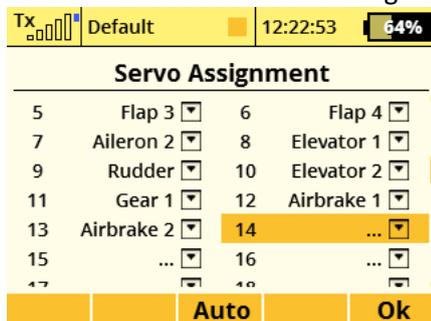
Select Add function and assign the Control you want to control butterfly



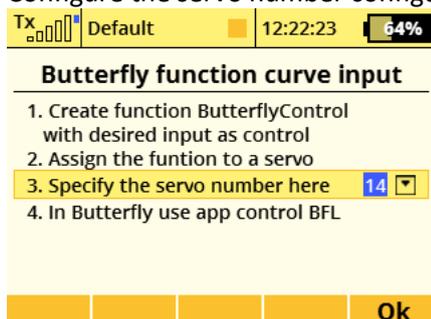
## Create servo output



Select an unused servo and assign the Function Butterfly ctl to it



Go to "Advanced Properties" "Butterfly function curve input" (the Lua app installed)  
Configure the servo number configured under servo assignment



## Configure Butterfly mixer

Go to "Fine Tuning" "Butterfly"

Tx Default 12:22:53 64%

**Fine Tuning**

- Dual Rate/Exponential
- Function Curves
- Aileron Differential
- Ailevator
- Butterfly**
- Snap Roll
- Free Mixes

Select the Control to be used

Tx Default 12:22:09 64%

**Butterfly**

Control	Offset	- Delay	+ Mode
...	0%	0.0s	0.0s

**Ailerons/Flaps Adjustment** >>  
**Elevator Adjustment** >>  
**Tuning** >>

Sym. **Ok**

Select Apps

Tx Default 12:22:15 64%

**Select Input Control**

Move the desired control to active position. The event will be automatically detected

...

Log. **G SENS.** **Mx** **Apps**

Select BFL

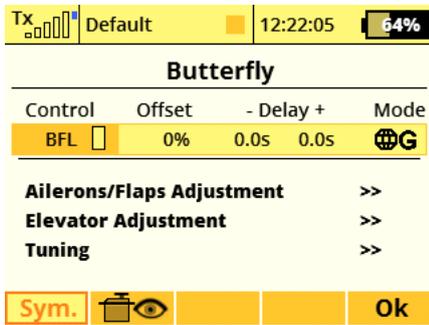
Tx Default 12:22:37 64%

**Select Input Control**

<b>CUT</b>	ThrCut, stick at idle for reset-100%	
<b>BFL</b>	Butterfly via servo output	<b>0%</b>
...		
...		
...		
...		

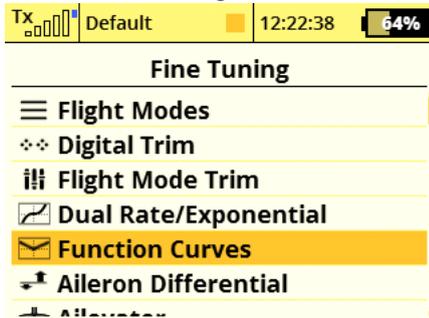
Log. **G SENS.** **Mx** **Apps**

Voila!

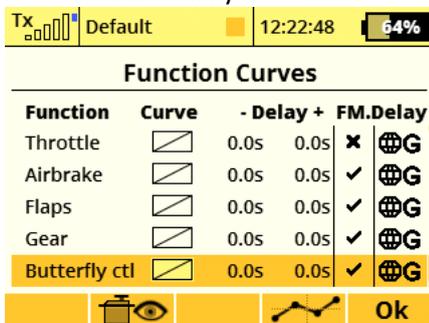


## Configure function curve

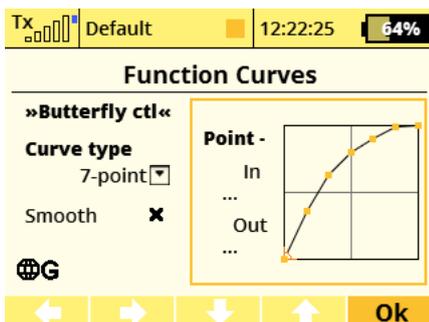
Go to "Fine Tuning" "Function Curves"



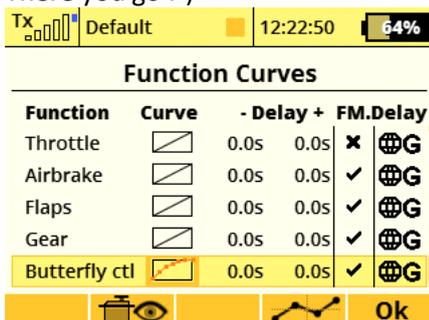
Select the Butterfly control



Setup desired curve, e.g. a 7 point curve



There you go :-)



**TEST !**

Test and understand.. Use at own risk.