

Throttle cut with dual input, ThrotCut.lc

9. november 2017 11:57

Throttle cut for electric motors

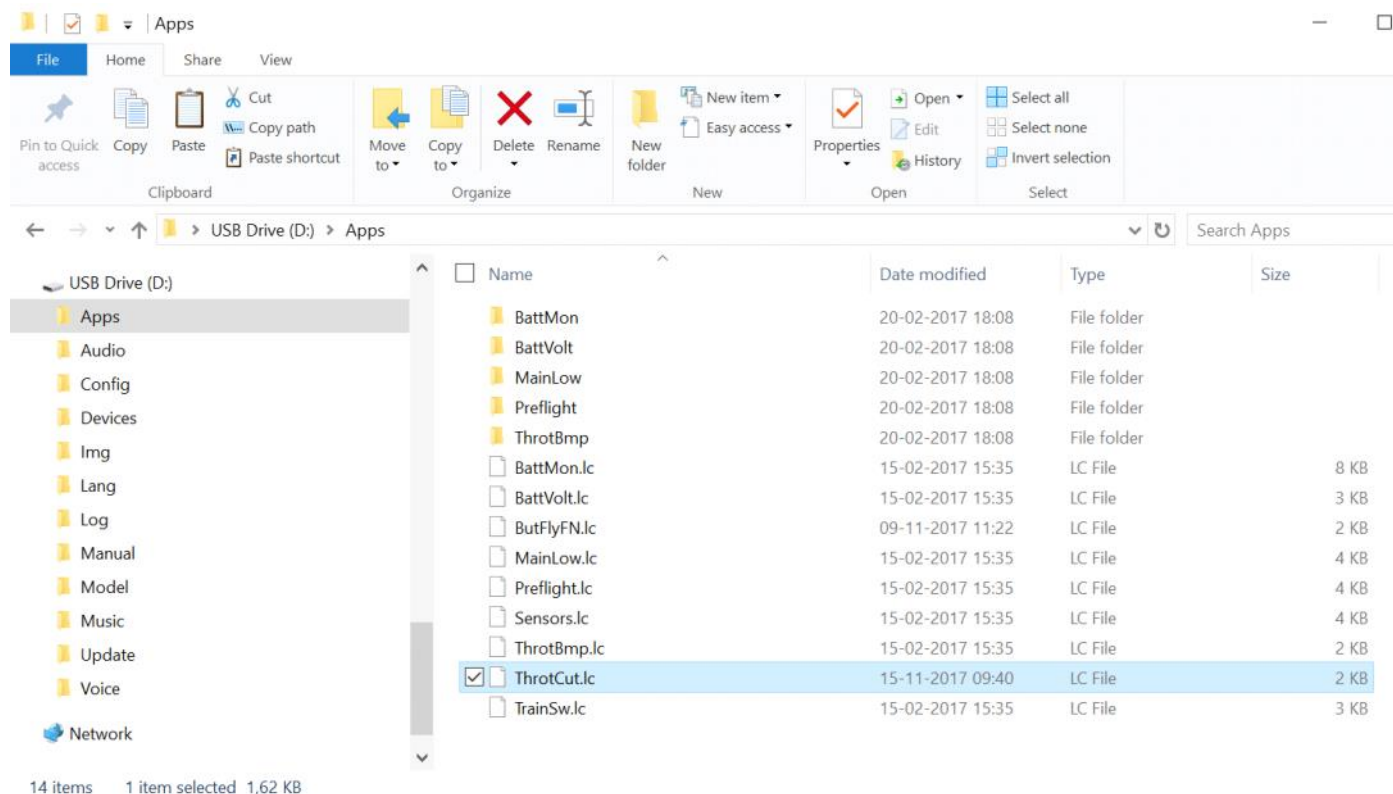
This Lua script combines a 'safety switch' and a check of throttle control being in idle position before releasing the throttle cut.

1. When safety switch is **on**, throttle cut is **on**.
2. When safety switch is moved to **off**, throttle cut remains **on** until throttle control is at idle position.
3. When throttle control is at idle position, throttle cut is released and is now **off**.
4. When safety switch is moved to **on**, throttle cut is instantly set to **on** no matter the throttle position.
5. Resume at step 2.

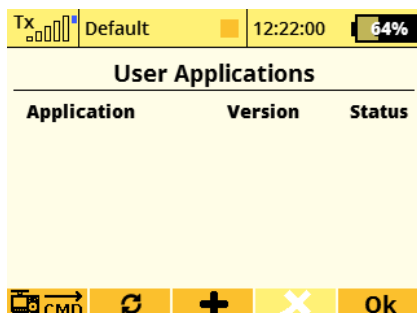
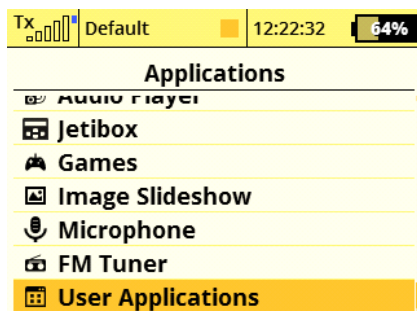
When transmitter is switched on, throttle cut is **on**, resume at step 2 = throttle control must be at idle position to release throttle cut. (also handled by preflight condition.. But this isn't always configured)

Installation

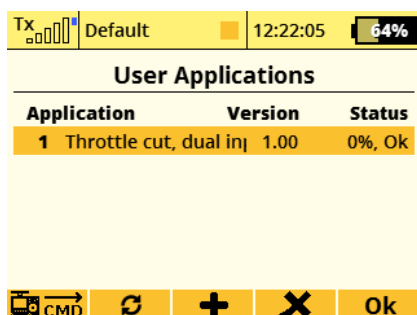
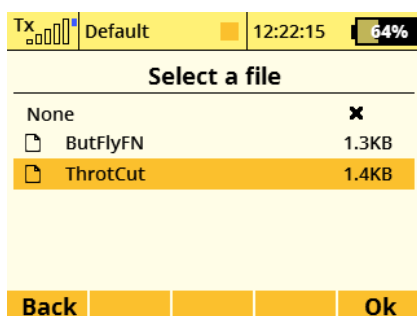
Copy the file ThrotCut.lc to the Apps folder on the transmitters SD card (via USB)



Go to Applications, User Applications

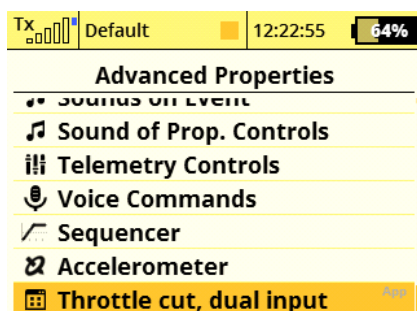


Press the + sign to add an application and select the ThrotCut application



Configuration

The app can be configured by selecting it in user applications, and it is also placed under "Advanced Properties, Throttle cut, dual input"



Tx Default 12:22:33 64%

Throttle cut, dual input

To get out of throttle cut requires throttle control to be at idle position

Throttle cut switch Sc ☒

Throttle stick/switch P4 ☐
(if stick set to proportional)

Throttle cut active ☒

Ok

Select the switch you want to use, it must be on when throttle cut is to be active.

Tx Default 12:22:23 64%

Select Input Control

Sc ☒

100%

Prop. Rev. Clr Ok

Select the input you use for throttle, if stick/slider select type proportional.

Tx Default 12:22:50 64%

Select Input Control

P4 ☐

53%

Centr Prop. Rev. Clr Ok

Test the switch/stick combination

Tx Default 12:22:01 64%

Throttle cut, dual input

To get out of throttle cut requires throttle control to be at idle position

Throttle cut switch Sc ☒

Throttle stick/switch P4 ☐
(if stick set to proportional)

Throttle cut active ☒

Ok

Go to Advanced Properties, Other Model Options

Tx Default 12:22:56 64%

Advanced Properties

Other Model Options

Sticks/Switches Setup

Wireless Modes/Trainer

Logical Switches

Sounds on Event

Sound of Prop. Controls

Telemetry Controls

Select Throttle-Cut switch

Tx Default 12:22:24 64%

Other Model Options

Trainer switch ... ▾
Start-Logging switch ... ▾
L Mode Auto ▾

Throttle Cut

Throttle-Cut switch ... ▾
Throttle-Cut output value -100% ▾

Ok

Select Apps

Tx Default 12:22:38 64%

Select Input Control

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

...

Log. G_{SENS.} A B Mx Apps

Select CUT input control

Tx Default 12:22:59 64%

Select Input Control

CUT ThrCut, stick at idle for reset 100%

...

...

...

...

...

Log. G_{SENS.} A B Mx Apps

Voila!

Tx Default 12:22:25 64%

Other Model Options

Trainer switch ... ▾
Start-Logging switch ... ▾
L Mode Auto ▾

Throttle Cut

Throttle-Cut switch CUT ✓
Throttle-Cut output value -100% ▾

Ok

TEST

When throttle cut is enabled, Off appears in the lower left corner

Tx Default 12:22:47 64%

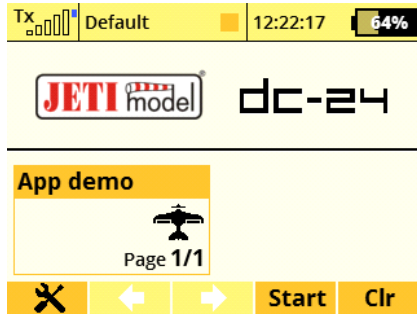
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App demo

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✕ ← → Start Clr

And when throttle cut is disabled, nothing is shown



Test and understand... use at own risk.