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“Open TX For Beginners – Sticks & Mixer” (Nov 21, 2013)

Sticks - using C9X model setup page

00:35 – 01:10 Order of sticks

01:10 – 02:35 Setting rates & exponential

Mixes – using C9X model setup page

02:35 – 03:05 Order of mixes

03:05 – 03:25 Mixing channels together

03:25 – 04:15 Example – Aileron & Rudder Mix

04:15 – 05:30 Example – Throttle & Elevator Mix

“FrSKYTaranis Transmitter Set Up 6 Channel Model with Extras” (Nov 14, 2013)

In 9 steps using transmitter menus only for a model with 2 channels for ailerons, 2 channels for elevator, and one each for throttle and rudder.

00:27 – 2:00 Flight modes

02:00 – 04:50 Sticks – rates and exponential

04:50 – 06:30 Setting the six channels

06:30 – 09:00 Aileron differential

09:00 – 11:45 Flaperons

11:45 – 13:45 Landing Mode – setting full flaps

13:45 – 14:30 Landing Mode – setting curve limiting elevator movement

14:30 – 16:05 Landing Mode – setting elevator when flap are deployed

16:05 – 18:22 Custom Functions Safety & Sounds – throttle safety, control volume on S1

“FrSKYTaranis – Rates, Mixes and a little bit of pixel dust” (Oct 10, 2013)

Using Companion 9X

00:15 – 01:30 Setting up Templates.eepe with Custom Functions, Custom Switches and Telemetry for easy use in multiple models

01:30 – 01:35 Copying model from template.eepe

01:35 – 02:10 Modifying template model for specific new models and setting preferences

02:10 – 02:35 Telemetry setup in template

02:35 – 03:15 Custom functions setup in template

03:15 – 04:35 Custom switches – combinations

04:35 – 05:15 Custom curves in template

05:15 – 06:10 Using simple 4 channel model template with Custom items already in new model

06:10 – 08:25 Setting rates and exponential

08:25 – 09:13 Custom functions, Global variable – alternate approach to setting rates/expo

09:13 – 13:50 Adjusting settings for full use of pots S1 and S2 in Mixes with Weights and Offsets.

“Smart Port Sensors: LiPo-Current-Voltage-Vario” (Nov 20, 2013)

00:10 – 00:25 40-Amp sensor size & connectors

00:25 – 00:40 LiPo sensor size

00:40 – 00:52 Vario sensor size

00:52 – 01:05 X8R2ANALOG voltage sensor

01:05 – 02:07 Testing setup before installing in plane

02:08 – 03:30 Testing in plane showing Taranis displays

“Custom Functions – Some Meat and Potatoes” (Oct 7, 2013)

Using Companion 9X (C9X)

00:10 – 00:50 Connect Taranis with Mini USB cable (not the newer Micro)

00:50 – 01:30 Two types of connections – for EEPROM and FLASHING

01:30 – 01:50 Make new model with Custom Functions

01:50 – 02:20 Safety function

02:20 – 02:40 Starting Log of Parameters

02:40 – 03:45 Using “ON”, Global Variables & CH09

03:45 – 04:28 GV2 and CH10

04:29 – 05:45 Play Value
05:45 – 06:40 Play Tracks
06:40 – 07:30 Play Telemetry values
07:30 – 08:20 Using “NOT” switch settings
08:20 - 09:00 Play model name “ONE” time

“What to do first when you get your FrSKYTaranis – a little bit of this and a little bit of that” (Jul 2, 2013)

00:10 – 01:35 Deleting old model tip
01:35 – 02:30 Turn on TX and check all switches
02:30 – 03:08 Check pots and sliders
03:08 – 04:10 Calibrate TX sticks
04:10 – 06:00 Calibrate battery
06:00 – 06:33 USB Port
06:33 – 08:35 Flashing firmware with C9X (1)
08:35 – 09:30 Taranis computer folder strategy
09:30 – 10:00 Flashing firmware with C9X (2)
10:00 – 12:10 Bind RX to the Taranis

“Programming Taranis with C9X for Simple Mix, Rates, and Expo” (Oct 4, 2013)

00:00 – 00:35 Outline for video
00:35 – 01:22 Finding C9X online; installation
01:22 – 02:20 Download EEPROM from TX to C9X on computer
02:20 – 03:52 Create new model & select RX
03:53 – 05:20 Set up model using Model Wizard
05:21 – 05:42 Mixes
05:43 – 07:57 Set rates/expo (Sticks tab formerly EXPO/DR)
07:58 – 08:30 Test settings using simulator
08:31 – 10:00 Setting throttle-elevator mix example

“FrSkyTaranis Preferences” (Apr 6, 2013)

Using Companion 9X Software

00:20 – 00:26 Find preferences menu
00:26 - 00:56 Choose language and restart
00:56 – 01:35 Firmware updates
01:35 – 02:06 Splash Screens
02:06 – 02:35 EEPROM Backup
02:35 – 04:00 Select correct firmware version and menus – FrSKYTaranis
04:00 – 04:30 Select stick mode and Channel order
04:30 - 04:45 Profiles
04:45 – 06:00 Firmware downloads
06:00 – 06:17 Save settings
06:17 – 07:00 Other ways to flash firmware

“EEPROM - Model settings and general setting files read/write”

Using Companion 9X Software

00:10 – 01:00 Creating a new EEPROM & General Setting options
01:00 – 01:45 Setting up a model general description
01:45 – 02:20 Reading EEPROM from transmitter
02:20 – 03:10 Comparing EEPROM from TX versus new EEPROM from C9X
03:10 – 03:46 Working with multiple EEPROMS
03:46 – 04:20 Flashing new EEPROM to transmitter and saving to backup folder

“Companion 9X Configuration Wizard” (April 2013)

02:00 – 02:20 Opening Configuration wizard under model Templates
02:20 – 03:01 Making selections in the wizard
03:01 – 03:40 Modifying channels
03:40 – 05:30 Setting rates and exponential
05:30 – 06:10 Simulating settings
06:10 – 07:50 Creating a detailed glider with the wizard
07:50 – 09:15 Creating flying wing

“FrSkyTaranis Cross Trims, Servo Delays, Snap Roll & Copy/Paste” (Oct 23, 2013)

00:20 – 01:25 Bringing field adjustments in to C9X models
01:25 – 02:00 Cross trimming: trimming rudder with aileron trim
02:00 – 02:10 Cross trimming: trimming aileron with rudder or throttle
02:12 – 03:30 Replace feature: when momentary switch activated to change settings temporarily
03:30 – 04:00 Syncing EEPROM model settings from TX to computer
04:00 – 05:15 Copying specific settings from one model into another
05:15 – 06:30 Copying custom functions – Vario and throttle examples

“Logging Telemetry and Transmitter Controls with FrSKYTaranis” (Nov 18, 2013)

00:00 – 00:29 The ‘black box’ in Taranis
00:30 – 01:13 Setting custom function for throttle and data log in C9X
01:14 – 02:20 Setting custom function for throttle and data log in TX
02:20 – 03:22 C9X accessing TX SD card and viewing log data
03:22 – 04:25 View of sample data

“Binding a Variety of Receivers with the FrSKYTaranis” (Nov 2013)

00:00 - 00:23 D8R-II, D4R-II, V8FR-II, Delta-8, and X8R
00:23 – 01:23 X8R binding procedure
01:23 – 02:26 D4R-II binding procedure
02:27 – 03:08 D8R-II binding procedure
03:09 – 04:09 V8FR-II binding procedure
04:10 – 06:44 Delta-8 binding procedure

“FrSKYTaranis can do most anything. HammerHead Solution....” (Nov 27, 2013)

00:00 – 00:20 Momentary power burst at top of hammerhead stall
00:20 – 01:30 Custom switch setup ‘replace’ using a cascade of switches
01:30 – 02:50 Simulation of effect of custom switches

“FrSKYTaranis – OpenTX – Guided Tour of the Process of Creating a Flaperon Mix” (Oct 31, 2013)

Using Companion 9X
00:00 – 01:15 Intro to Flaperons
01:15 – 02:40 Make left and right ailerons

02:40 – 03:14 Add in right flaperon
03:15 – 04:30 Simulate the right flaperon – making ailerons move in opposite direction
04:30 – 04:42 Copy right flap to create left flap and simulate
04:42 – 05:50 Setting the amount of flaps to allow for effective aileron control
05:50 – 06:48 Slowing down flap movement
06:48 – 06:57 Simulate slow flaperon movement
06:57 – 08:10 Mix for down elevator when flaps engaged
08:10 – 08:55 Putting Thr-Ele mix on a slider to allow in flight adjustment
08:55 – 10:35 Adjusting range of control on the slider using a curve
10:35 – 11:39 Using the Not command to ensure Thr-Ele only effective with flaps down
11:40 – 12:00 Setting slider 'beep' when it is centered
12:00 – 14:00 Setting pot 'beep' on center & use pot to control amount of flaps with a curve
14:00 – 14:45 Simulation
14:45 – 17:00 Using global variable on a switch
17:00 – 18:28 Using flight modes
18:29 – 20:15 Custom function playing track once or repeated & playing GV values

“Two More Examples of Flaperon Mixes for C9X on FrSKYTaranis” (Nov 1, 2013)

00:05 – 01:25 1 - Use two mixes in each channel elevator and ailerons
01:25 – 02:55 2 - Use one mix set on a global variable and flight modes

“Basics of Curves and Tricks with Mixes in C9X for Taranis” (Oct 21, 2013)

00:05 – 02:33 Power of curves using Taranis (actually C9X simulator of TX)
02:33 – 04:20 Creating throttle curve and throttle cut using C9X
04:20 – 05:50 Adding exponential within the curve
05:50 – 07:10 Creating multiple curves and assigning them to a switch
07:10 – 08:54 Creating curve for helicopter hovering with symmetrical curve
08:55 – 10:10 Creating an elevator curve
10:11 – 11:50 Creating additional elevator curves and using in mixes
11:51 – 12:27 Custom curves
12:28 – 13:05 Symmetrical curves

“Taranis Audio Updated – Making Voice and Converting Music” (Oct 16, 2013)

Using Companion 9X

00:00 – 01:20 How to create text to speech audio files
01:20 – 02:50 Storing audio files on Taranis and PC clone folder
02:50 – 04:30 Creating sound files using Audacity (multiple tracks, convert to mono)
04:30 – 05:00 Storing music files on Taranis and PC clone folder
05:01 – 06:00 Using music/audio files in the Taranis – setting preferences
06:01 – 07:03 Using music/audio files in Taranis – setting custom functions
07:04 – 07:28 Uploading to the Taranis
07:29 – 09:40 Setting custom function directly on the Taranis to play tracks

“FrSKYTaranis Gimbal Replacement Demonstration” (Sep 13, 2013)

00:00 – 00:34 Swapping out left stick – tools required
00:34 – 00:45 Protecting front of TX
00:46 – 01:26 Removing case screws and taping switches/sliders
01:28 – 02:27 Removing old gimbal connector plugs
02:28 – 03:40 Installing new gimbal

03:41 – 04:30 Removing and reinstalling tensioner
04:30 – 04:52 Disabling spring for the throttle movement
04:52 – 05:05 Closing and reinstalling case screws

“Inside the FrSKYTaranis – a First Look” (May 31, 2013)

00:30 – 01:45 Opening TX case and taping sliders and front switches
01:45 – 02:15 Discussion on internal cabling and connections
02:16 – 04:00 Gimbal tensioners and springs – changing Modes
04:01 – 04:45 Adjusting tension and springs
04:46 – 06:13 Changing back from Mode 1 to Mode 2
06:14 – 07:10 Closing case

“Taranis 5 Ch with Rudder and Aileron Mix” (May 15, 2013)

00:01 – 00:31 Goal set up 5 ch with mixes using the Taranis (not C9X)
00:31 – 00:57 Create a model
00:58 – 02:13 On mixer page; add second aileron
02:14 – 04:48 All mixing on channel 4 – aileron on 5 set to follow 4 activity
04:49 – 05:17 Simulate on channel monitor page
05:18 – 06:55 Prepare mix to coordinate rudder and aileron
06:55 – 07:45 Designate a switch to allow multiple settings options
07:46 – 09:16 Copy rudder, change coordinate weight and assign new switch
09:17 – 09:45 Review of mixer settings

“FrSKYTaranis General Settings in the TX in More Detail” (May 8, 2013)

00:11 – 00:35 Using the TX to program (rather than C9X)
00:35 – 01:35 Models and general settings stored in EPROM
01:35 – 02:21 Review of the Menu key and 13 screens
02:22 – 02:40 Review of Page key and the four information screens
02:41 – 03:09 How to get to the model editing and seven radio set up screens
03:10 – 08:38 Radio Setup (date/time, voltage range, sounds, alarm, backlight, splash screen, units, channel order, mode)
08:39 – 09:10 SD card contents
09:10 – 09:20 Trainer mode setup
09:20 – 09:31 Version info page
09:31 – 09:41 Switch test page
09:41 – 10:02 Analog input page (TX battery calibration)
10:03 – 10:52 Calibration of sticks, pots, sliders page
10:53 – 11:52 Moving between pages
11:53 – 12:50 Into to Model setup seven screens

“Download Calibrated Taranis Settings, Create New Model and Upload New Model” (May 2, 2013)

Using Companion 9X
00:50 – 01:29 Calibration of sticks and saving on EPROM
01:30 – 01:50 Downloading EPROM to computer
01:50 – 04:03 Setting up a new model using your own template of settings
04:03 – 07:00 Using Template for Model Config Wizard; resetting Expo-D/R
07:00 – 07:15 Saving the model
07:15 – 08:36 Special mix to create a dead space in middle of range
08:36 – 10:00 Simulating the model

10:00 – 10:50 Saving/burning to TX EPROM

“Looking Over Companion TX – Take 2 - the Companion” (Apr 13, 2013)

00:10 – 01:14 Finding the software online

01:14 – 01:30 Installation

01:30 – 02:05 The purpose of Companion software

02:05 – 02:22 What's the EPROM?

02:22 – 02:50 What's the Firmware

02:50 – 03:45 The Creators

03:45 – 04:10 Reviewing EPROM composition

04:11 – 07:35 Preferences in Companion

07:35 – 14:25 Simulation methods explanation & demonstration of calibration and model creation with options

14:45 – 15:20 Saving calibrated EPROM to Companion from TX

15:20 – 17:55 Working with multiple EPROMs and Companion details

17:55 – 18:25 Model Config Wizard

“Flashing Open TX to FrSKYTaranis” (Dec 6, 2013)

00:00 – 00:30 Connecting to computer for EPROM and Firmware

00:35 – 00:50 Differences in connection

00:50 – 01:55 Flashing new firmware process

01:55 – 02:15 Flashing new splash image

“Problems with Flashing OpenTX to the FrSKYTaranis” (Jan 9, 2014)

00:15 – 00:55 C9X does not automatically select Taranis in Preferences page

00:55 – 02:20 DFU Utility Error – Need to download/run Zadig

02:20 – 02:40 Most recent version of Zadig solves USB3 problems

“Basics of Calibration on the Taranis” (Jan 8, 2014)

00:15 – 00:35 Calibration of electronic equipment – Analog Inputs & Voltage

00:35 - 01:10 Using Taranis move to Analog Inputs calibration page & center sticks and sliders

01:11 - 01:50 Follow instructions – move sticks and pots

01:51 – 03:05 To check move to Sticks menu

03:06 – 05:38 Battery Calibration – with no load & in TX

05:39 - 06:24 Accidentally erasing the calibration

06:25 – 07:20 How to avoid the accidental erasure