

Aurora A9 - Helicopter Set Up

Finless Bob's Helifreak Tech Room - Review Tips and how-To Videos

Refer to link as Video will be continuously added to.

<http://www.helifreak.com/showthread.php?t=223607>

1. What's in the box and radio overview (81 Megs)
2. Stick Adjustments (44 Megs)
3. Touch Screen and Menu System Overview (67 Megs)
4. RX Overview and Power connections (81 Megs)
- 4b. Hover Pitch and Throttle Trim and Pitch High/Low in the pitch and throttle curves menus (79 megs)
5. Binding the RX Normal and Scan Mode (87 Megs)
6. Pro's and Con's of Scan mode vs Normal mode and some anomalies of the LEDs??? (57 Megs)
7. Setting Failsafe and why it is important! (47 Megs)
8. Upgrading the Aurora 9 , module, and RX's (80 Megs) = **DIY Software Update:**
9. What's new in the 1.07 / 2.0 Software update! (63 Megs)
10. **WARNING!** Don't short your SPC port with 2 packs in series! (63 Megs)

System Menus:

12. System Menu Part 1 (48 Megs)
 - . MDL. Sel - Copy Model & Rename
 - . MDL Type - Set up basic parameters
13. System Menu Part 2 (48 Megs)
 - . Timer - Set various timers
 - . Channel (Assignment)
 - . Swap channel as recognised by receiver e.g. Throttle/Pitch.
 - . Dual Ailerons
14. System Menu Part 3 (87 Megs)
 - . TrimStep - Adjust trim speed/steps.
 - . Trainer - Turn on and assign switch
 - . Sensor (Telemetry) - Separate video to follow
 - . SYS.MGMT (System Management)
 - Backlight, Touch light, Touch Lock, Touch Sound on/off,
 - Screen Calibration, Hibernation, Warning at Start up,
 - TX Battery type/voltage alarm, Mode,
 - Info (includes Password)

Model Menus:

15. Model Menu Part 1 (27 Megs)

- . Model Menu functions
- . Sub Trims
- . Change Pitch/Throttle ch output

16. Model Menu Part 2 (92 Megs)

- . Exponential
- . Conditon C & S
- . Dual Rates
- . OST.

17. Model Menu Part 3 (98 Megs)

- . EPA – End Point Adjustment
- . Flight Conditions - Switch setup: Idle up & Hold.
- . Throttle Link
- . Trim Link **Inh** (Inhibit is default)
- . ACT **Activate** - all conditions.
- . Servo Speed - in transition.

18. Model Menu Part 4 (146 Megs)

- . Pitch and Throttle Curves

19. Model Menu Part 4b

- . Pitch, Throttle Hover Trim & Pitch High/Low (78 Megs)

20. Model Menu Part 5a (120 Megs)

- . Gyro Menu basics - The gyro menu took 2 videos to cover. It can be as SIMPLE as you want or super complicated... I say KISS (Keep it simple stupid) but I spent the time to cover every aspect of understanding HOW the gyro menu works and what it means to TRUE gain to your gyro. Again if something was not clear.... Let me know

21. Model Menu Part 5b (99 Megs)

- . Gyro Menu advanced and tips!

22. Model Menu Part 6 (75 Megs)

- . Throttle Cut menu

23. Model Menu Part 7 (71 Megs)

- . Throttle Hold menu

24. Model Menu Part 7B (27 Megs)

- . Throttle cut alternative to using the throttle hold menu.
This makes it so throttle cut does not work unless you are in throttle hold.

25. Model Menu Part 8A - Swash Menu Basics (32 Megs)

- . Covering the basic swash menu

26. Model Menu Part 8B - Swash Calibration Menu (150 Megs)

- . Covering the Swash Calibration menu

27. Model Menu Part 9 - Revo Mix, Servo speed, Swash>Throttle,

and Rudder>Throttle (61 Megs)

28. Governors 101

. "OK for the governor menu I thought as part of this I would do a new 101 learning video. This would help understand the gov menu for just about any radio as well as how governors work. "

29. Model Menu Part 10 - Governor Menu (66 Megs)

30. Model Menu Part 11 - P. Mixes (33 Megs)

. 8 P-Mixes of which 1<5 are Linear Mixes and 6<8 are Non Linear Mixes. Differences and set up.

31. Model Menu Part 12 - Needle and Mixture Menus (76 Megs)

32. Model Menu Part 13 - Throttle Lock (26 Megs)

. Includes revision of Custom Menu and Adjust Menu (which appears only when sliders and knobs enabled).

**WAIT! Got a request for a video. But whats this? Switched Inverted? What the heck is "switched inverted"? It's an OLD SCHOOL way of flying inverted! It's how it was done 20 some odd years ago. I tell you, you just can't teach some old dogs new tricks
But I wanted to see if it could be done so..... I figured it out. Here we go! Hope you enjoy them Ed (Ed is the guy that asked).**

33. Switched Inverted Part 1 - Intro, What is it? (43 Megs)

34. Switched Inverted Part 2 - Old School curves and Reversing Pitch (72 Megs)

35. Switched Inverted Part 3 - How to reverse Elevator and Rudder (88 Megs)

Thats it folks! I hope you enjoyed the series. Let me know if there is something you want me to cover in more detail and also expect a build video using this radio to come!

Enjoy,
Bob

Heli Skills and Setup 101 - LOOK here first!

<http://helifreak.com/showthread.php?t=41692>

This is a place to gather together the best-of-breed How-To videos, Guides and reference material. Much of the material is universal and can be applied widely regardless of which heli(s) you fly. In addition there are model-specific items for individual helis, radios, gyros etc. If your particular brand/model isn't covered, look at one of the ones that are since the majority of concepts and techniques are fairly universal and can be applied widely.

Most of the videos are from Finless (familiar to many) but some are by other talented contributors.

Basics

[Ball Links 101 \(20 MB\)](#)

[BEC 101](#)

[Blade Balancing 101 \(30 MB\)](#)

[Blade Tracking 101 \(35 MB\)](#)

[Brushless motor and ESC 101](#)

[Canopy Trimming 101 \(28 MB\)](#)

[CCPM Setup Part 1 \(58 MB\)](#)

[CCPM Setup Part 2 \(58 MB\)](#)

[Dual Rates 101 \(71 MB\)](#)

[Exponential 101 \(45 MB\)](#)

[Gyro 101](#)

[Gyro 102 - Usage, tips, hints and kind of a new gyro 101 information sharing! \(89 Megs\)](#)

[Gyro Delay 101 - Information about using delay on a gyro](#)

[Gyro Gain 101](#)

[Nitro Setup and Operation 101](#)

[Pitch and Throttle Curves 101 \(58 MB\)](#)

[Servo Repair 101 \(30 MB\)](#)

[Servo Wires 101 \(41MB\)](#)

[Soldering Bullet \(Motor\) Connectors 101 \(50 MB\)](#)

[Soldering Deans Connectors 101 \(30 MB\)](#)

[Thread Lock 101 \(15 MB\)](#)

BECs

[Understanding BECs and regulators \(47 MB\)](#)

[Comprehensive BEC database](#)

Chargers

[Bantam BC6-10 Charger and Balancer videos](#)

[Thunder Power 1010 and 210 videos](#)

[Balance charger comparisons.](#)

[Comprehensive charger database](#)

ESCs

[Align ESC setup \(30 MB\)](#)

[Castle Creations ESC setup instructions](#)

[Castle Pheonix 85HV setup videos](#)

[Kontronik Jazz 80-6-18](#)

[Comprehensive ESC database](#)

Gyros and Flybarless Systems

[Align/Telebee and similar Piezo HH Gyro setup \(46 MB\)](#)

[Align GP750 setup videos](#)

[Align GP780 setup videos](#)

[Futaba 401 gyro setup \(48 MB\)](#)

[Futaba 401 gyro setup with DX7 \(42 MB\)](#)

[Futaba 611 gyro setup \(35 MB\)](#)

[Futaba 701 gyro/gov review](#)

[Hitech HG-5000 \(Logictech 2100T\) Gyro setup videos](#)

[JR G770 Gyro Overview and Setup videos](#)

[Logictech 6100T setup videos](#)

[Mikado V-Stabi videos](#)

[Skookum Robotics SK360 Electronic Flybar](#)

[SpartanRC DS760 setup videos](#)

[SpartanRC Quark setup videos](#)

Comprehensive gyro database

Governors

Aerospire MultiGov Pro setup videos

Curtis ATG Governor setup videos (in T600Npro group)

GV-1 Governor setup videos (in T600Npro group)

Spektrum DX7 + AR7100R + Switchglow (not a video)

Other

CSM Carbsmart setup

RCATS Smart Lithium Glow Driver

Radios

Airtronics SD-10G

Spektrum DX6 setup guide for a Trex450SE (not a video)

Spektrum DX7 Setup video

Spektrum DX7 Throttle cut switch

Spektrum DX7 + AR7100R + Switchglow

Spektrum DX7 Dual Rates and Expo (65 MB)

Spektrum AR7100R Overview and Setup

Futaba 9Z - Programming for a heli (78 MB)

Futaba 10C

Futaba 14MZ - Hacking the MDL files

Hitec Aurora 9

JR X9303 - Configuring Dual Rates and Expo (50 MB)

Helis

Audacity Pantera 50

Avant Aurora

Beam E4

Bergen Intrepid Gasser Build Videos

Bergen Intrepid Turbine Build Videos

Century Swift

Compass 3dplus

Compass 6HV

Compass Atom 500

Compass Knight 3D Nitro

Compass 600E

Compass Odin 90

Dragonus

Dragonus II Plus

Gaii 200

Ghohbee Phazor 600e

HDX 300

HDX 450

Henseleit Three Dee Rigid

Hurricane 550

Kasama Srimok 90

Kasama Srimok Electric

[Lepton](#)
[Logo 14](#)
[Logo 400](#)
[Logo 500 3D](#)
[Logo 500/600 3D & Vstabi](#)
[MA Furion 450](#)
[MA Fury 55](#)
[MA Stratus 'Bobby Watts' Special](#)
[Minicopter Joker3](#)
[MSH Protos](#)
[Outrage Velocity 50](#)
[Raptor e620 SE](#)
[Rc-Tek Diablo](#)
[Trex 250](#)
[Trex 450 Pro](#)
[Trex 450 SE](#)
[Trex 450 SE V2](#)
[Trex 450 XL/HDE](#)
[Trex 500](#)
[Trex 600](#)
[Trex 600 build and repair](#)
[Trex 600 Nitro Pro](#)
[Trex 600 Rotorworkz HFX](#)
[Trex 600 Rotorworkz "Helifreak Edition"](#)
[Trex 700](#)
[Trex 700 G-Force Clutch Block setup](#)

References - General heli info

RC Helicopter Fun (excellent reference, buyers guide, and FAQ):

<http://www.rchelicoptertfun.com/index.html>

Electric Helicopters Beginners Guide (EHBG): <http://www.swashplate.co.uk/html/ehbg.html>

RADD's School of Rotary Flight: <http://www.dream-models.com/eco/flying-index.html>

Model helicopter theory: [Model Helicopter Theory - RC Groups](#)

Manuals - [awesome collection](#)

Fantastic online database of batteries, becs, chargers, escs, motors, power supplies, servos etc

<http://www.progressiverc.com/Research.html>

References - Batteries

LiPo Basics: <http://www.bladebusters.com/batteryguide.html>

Complete Guide to LiPoBatteries : [Complete Guide to Lithium Polymer Batteries and LiPo Failure Reports - RC Groups](#)

All about A123 cells/packs/charging: <http://www.rcgroups.com/forums/showp...01&postcount=2>

AWG wire gauges http://www.powerstream.com/Wire_Size.htm

AWG to Metric conversion http://www.engineeringtoolbox.com/aw...uge-d_731.html

Wire Resistance and Voltage Drop Calculator <http://www.stealth316.com/2-wire-resistance.htm>

References - How To guides

How to: Assorted: <http://www.archeli.com.au/forums/for...e=-1&prefixid=>

How to: Build an A123 pack: [Is There An A123 Build Tutorial - RC Groups](#)

How to: [Change bearings on an OS 50 SX-H engine](#)

How to: Charge LiFe (A123) packs with CCCV power supplies: [How to use CCCV power supplies to charge LiFe \(A123\) packs - HeliFreak](#)

How to: Convert a Computer ATX Power Supply to a Lab Power Supply:

<http://www.wikihow.com/Convert-a-Com...b-Power-Supply>

How to: Make your own stepdown regulator for a tail servo: [Make your own Stepdown regulator - HeliFreak](#)

How to: Parallel charge LiXx packs [About parallel charging of Lixx / PB packs. - RC Groups](#)

How to: Setup a piezo gyro: http://www.natew.com/rcheli/frame_ma...H#why.behavior and <http://www.x400tuning.com/aligngyro.htm>

How to: Engine Tuning OS50 [Engine Tuning OS50 - arcHELI V EC135](#)

How to: Wire up battery packs: http://scriptasylum.com/rc_speed/_lipo.html

References - Headspeed Calculators

MrMel's (excellent generic tool for LiPo and A123/LiFe):

<http://www.dacsa.net/heli/Calculator/default.aspx>

DarkHorse (very complex modeling): <http://www.dhrc.rchomepage.com/calcAdvanced.htm>

Ezfly's Hurricane 550 headspeed calculator <http://www.ezfly.se/hscalculator.htm>

Head Speed/Battery Calculator for Windows: (a good utility you can run on your PC) [Head Speed/Battery Calculator for Windows - HeliFreak](#)

North Florida BladeBusters (simple and well presented):

<http://www.bladebusters.com/calculator.html>

ReadyHeli (standard single stage and two-stage for Hurricane550):

http://www.readyheli.com/Online_Head...calculator_s/81.htm

References - Free Simulators

FMS (basic graphics and physics but hundreds of models available and good enough for getting started): http://n.ethz.ch/~mmoeller/fms/index_e.html

Helisim (basic graphics, like FMS, and limited models (heli only) but much better physics):

[Helisim: New free simulator - HeliFreak](#)

Heli-X (fancy graphics more like ClearView and much better physics than FMS. Demo version is free, full version is 39 euro):

http://heli-x.net/index_e.shtml