# Spektrum™ NX AirWare™ Change Log

## 2021-June-22

## Version 3.05.02

Changes are in comparison to version 3.04.01 (2021-Feb-15).

This change log is available online at

http://spektrumrc.cachefly.net/NXAirwareChangelogs.html

### New Features

- **3 Keyboard Variants Now Available** - New Keyboard option for naming models, flight modes, etc.
  - o Legacy – Original single line input
  - o SwiftBoard – Full keyboard with numbers on top
  - o RapidBoard – Full Keyboard with number pad on right
- **Updated Menu List Interface** - Function List and System Menu can be either Circular or Bounded, as controlled by new option on System Settings first screen.
  - o **Bounded –** Traditional scroll interface, stops at top and bottom of list
  - o **Circular –** When the bottom or top of list is reached, scrolling past will bring cursor to top or bottom, respectively.
- **Linked or Independent Flap Speed -** The default is Linked, so all flap speed settings are common. When set to Independent, the times on each position can be separate, depending on switch position.

### Corrections & Improvements

- Importing an SPM file with trim values properly import the trims correctly.
- Added "Dual Elevator" tail type to Sailplane mode.
- Importing a DX sailplane file with a motor setting no longer causes the motor setting to be lost.
- Spoiler stick now matches the response rate/ travel with a DX radio.
- Sailplane FLAP > ELE mix now functions correctly. You should see the same behavior with DX and NX radios.
- Camber Preset values previously only moved half of what was expected when compared to a DX radio. They now move correctly.
- Camber Preset and Camber System screens now display correct values in the left column with the "-" under the ":" and line up properly with the data entry boxes with the value being edited.
- **NX8, NX10 only -** Enabled telemetry for Turbine and PowerBox sensors.
- AR636/7350/9350 AS3X configuration and status display correctly displays the rates.

# Spektrum™ NX AirWare™ Change Log

- Corrected import issues from IX12 model files.
- Heli Throttle/Pitch Curve setup screens now hide the buttons for inactive Flight Modes.
- Heli Gyro and Governor setup screens now position the data entry boxes correctly for all switch and Flight Mode configurations.
- After downloading an update, an instructional message now appears below the INSTALL button informing users to wait 5 minutes to help clarify the expected behavior.
- When a model filename was more than 32 characters long it could show incorrectly on the screen, and it would reset the radio when imported.  Now, names that are too long for proper display show up using the 8.3 format that MS-DOS creates instead of the long name, and then imports work correctly.
- In previous versions, it took very large movements of the stick for the inactivity alarm to clear.  In the new version, it takes much less.
- PREV icon was shown incorrectly on the Voice Volume Control screen.  It has been removed.
- "Trainer" showed as a switch on the Throttle Curve screen.  It has been removed.
- FPV Trainer mode does not change between Wired vs. Wireless mode now except when commanded.
- "Flight Controller" text was shown on Multi-rotor Aircraft Type screen when it should not have been there.
- The channel display for the small monitor screens would change for no reason, and would not be retained through a power cycle. This has been corrected.
- Previously pressing the BACK button on the Mix Menu would get you into a loop between a mix and the menu. This has been corrected.
- Imported models with analog volume controls now carry the analog volume control through to the NX.

# Spektrum™ NX AirWare™ Change Log

## 2021-Feb-15

## Version 3.04.01

Changes are in comparison to version 3.03.03 (2020-Dec-23).

This change log is available online at

http://spektrumrc.cachefly.net/NXAirwareChangelogs.html

This Public Beta update has been tested fully by our internal and external beta teams, but there is a chance that users may experience unexpected behavior. If you would like to report any problems with this update, please contact us via email at airware@horizonhobby.com. Please note this email is for feedback only and you will not likely get a response.

**Corrections & Improvements**

- Corrected servo "glitch" problem with older 22ms DSM2 and DSMX receivers.
- Added a note to the USB mass storage mode screen to remind the user to attach a USB cable to radio and PC.
- Radios no longer speak "Student/Instructor has control" when in System Mode or when importing/exporting files.
- Hides the unused AS3X Gains screen when talking to a new-generation stabilized receiver.  The gain data for them is available through the Forward Programming interface.
- Rename/reorganize contents of the BNF folder to fit into 31-char filename limit
- Corrects the availability of the Spoiler Stick in the Center Tones screen in Sailplane mode.
- Includes "< Add New Model from Template>" as on the Model Select list as a new way to create a model.
- The radios do not write excessive stick data to the telemetry log file as they did in previous versions.  The writing of the input data is controlled by the Telemetry File Settings menu.
- Properly populate the SSID when auto-connecting to the WiFi.
- Add missing special characters in passwords, such as &, `, *, and " for WiFi use.
- When downloading new code from the web, the radio now deletes an old file with the same name to prevent collisions.
- Corrected a problem when using very large values (over 95%) for Crow that could cause glitches on the aileron channels.  The movement is now smooth for all values.

# Spektrum™ NX AirWare™ Change Log

- Reduced possibilities of "System Fault" errors occurring during model save operations.
- Show RX Pack Capacity using A instead of mA for current.

# Spektrum™ NX AirWare™ Change Log

## 2020-Dec-23

## Version 3.03.03

Changes are in comparison to version 3.02.01 (2020-Oct-26).

This change log is available online at

http://spektrumrc.cachefly.net/NXAirwareChangelogs.html

**Corrections & Improvements**

- Flap System now supports custom aileron deflection (aka "Crow" or "Butterfly") when using wing types 2 Ail/1 Flap and 2 Ail/2 Flap.
- Enabled reversing of an analog input to the flap system.
- Corrected Smart ESC/Battery display for Conscendo ESC EFLA1030E and Spektrum ESC SPMXAE0070.
- Flap System now allows selection of a different speed for each switch position instead of having the same speed for each position.
- Improved reliability of starting a charge when USB power applied.
- **NX8, NX10 only -** Added Analog Volume Control option to Volume settings menu.
- Optionally require the throttle stick to be lowered when releasing the Throttle Cut switch before allowing the stick to control the throttle. This new feature is mutually exclusive of the Delay option, and the screen will automatically change to make that clear.
- Icons for helicopter swash options in Forward Programming are now sized to better utilize the larger screen of the NX radios.
- Added battery charge current display to the charge status screen.
- Improved behavior when going to your My Spektrum account when you haven't visited to Check for Updates in a long time.
- Delete All Models now correctly makes a single model named "1: Acro" – in the past it was "1: BNF" and was a different default configuration.
- New display color palette option "Legacy" provides a black-on-white display similar to DX radios, including using boxes rather than color to highlight selections.
- When you have not configured the My List screens, if you press the fn button (also referred to as FUNC) it now goes to the My List configuration screen. In the past nothing happened.
- Fixed some messages in Forward Programming so they display correctly.
- Removed duplicate telemetry status screen from Multirotor mode.
- Enabled access to Flap function on the Channel Input Assign screen.

- Corrected the outputs for simulators for button inputs.
- Swap Rx Port Assign and Channel Input Assign screens.  This will make it easier for new users to follow the instructions in the aircraft manuals.
- Corrected a Forward Programming issue for reporting Absolute Travel limits to the receiver.
- When downloading an update via WiFi, we now name it to prevent getting stuck after a failed download.  The file is named "AirWare_V.VV.VV_SPMTX.SAX" (V = version number).
- When exiting from the Add BNF model functions, it was possible to exit with a corrupt memory image.  It now reloads the previous model correctly.
- < Add New BNF > is now an additional way to select a BNF model file as an option from the Model Select list screen.
- Center Tone screen now scrolls the entries properly.
- Center Tone sound/speech options now correctly select the various possibilities.
- Correctly displays a leading 0 in the "Time" section of the WiFi Download progress status screen.

**NOTE:**  In our testing we identified an issue with certain legacy DSMX 6-channel receivers which can cause them to jump all channels except channel 2 (aileron) every 10 seconds.  We have identified the issue in versions 3.02 and 3.03 and expect to correct it in the next release.  If you are using one of these receivers, you may either re-bind in DSM2 mode (USA only) or use a receiver not on the list.

The affected receivers are: AR6110, AR6115, AR6115E, AR6210, AR400, AR600.

# Spektrum™ NX AirWare™ Change Log

## 2020-Oct-26

## Version 3.02.01

Changes are in comparison to version 3.01 as shipped from the factory.

This change log is available online at

http://spektrumrc.cachefly.net/NXAirwareChangelogs.html

**Corrections & Improvements**

- Forward Programming is enabled. The factory version will tell you that you need to update in order to communicate with the receivers.
- **NX6 only:** The default switch setting for the Aux2 channel is set per the table below. Any models created prior to updating will show an invalid input (switch E) for Sailplane, Helicopter, or Multirotor models.

| Model Type | NX6 | NX8/NX10 |
|------------|-----|----------|
| Acro | B | E |
| Sailplane | B | E |
| Helicopter | I | E |
| Multirotor | B | E |