



THE FLIGHTLINE



AMA CLUB 668 SINCE 1968
RACINE RADIO CONTROL CLUB INC SINCE 1968

RRCC August Issue
August 18, 2024 Newsletter

WE ARE ON THE WEB
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JIM'S CORNER

I usually start out my column by making a few comments about the weather, and I will again, but this time I have to say, we have been having some GREAT flying weather! I wish more of you would be at the field enjoying it. The Sunday attendance seems to be lower than normal. I know there is a lot going on during the summer, but do try and enjoy the field.

There have been some challenges, but we have managed to keep the field in great shape. We just had another student pilot, John Bolt, qualify today, and hopefully he now gets to truly get in more flying, without having to work with an instructor.

One thing you should take note of when you come to the field, is the lack of crops to the east & west of the flying field. Nothing was planted between our flying field and the railroad tracks, and the tall weeds there were recently mowed. To the west, the winter wheat was harvested, and the area just has stubble on the field. Really nice situation should a plane go down. Rare condition for us this year.

As you know, about 3 weeks ago, instead of the July meeting, we had the club picnic. Roger did a great job, and there was food for everyone. If you didn't attend, you missed a good time!

I hope everyone is having an enjoyable summer, and keep several of our members with medical issues in your thoughts.

Fly Safe & Have Fun
Jim Litwin
President

Dennys Stuff

Its been a rather slow week in the editors home recently. Not much is going on.

There has been some interesting things that were found in the internet RC webpage "**RCGROUPS.COM**" though.

Namely, news concerning the Spektrum nX series of transmitters.

First, there is a LOT of programming beyond the primary functions of controlling your model. The main one is something called "Sequencing", a subject that is covered by a guy by the name of "Flightengr" in RCGroups. There is a lot of documentation on the features of this programming function and how to use it.

Youtube has several videos on the Sequencer function. Here is one of them, setting up the retract landing gear on a Jet airplane.

[Spektrum DX18 Sequencer Tutorial - YouTube](#)

Another surprise function concerns the Spektrum nX8 and nX10, which are respectively 8 channel and 10 channel transmitters.

Seems, you can get more than the listed transmitter channels on these two units by a programming feature. You must have the very latest firmware installed in the transmitter for this to work.

Here is a copy of how to do it, directly from Andy Kunz, Spektrum Transmitter programmer at Horizon Hobbies.

Adjust the Number of Channels In Use (Including Channel Monitor)

*Firmware update version 4.00 gave the NX8 and NX10 the capability to use 20 channels! NX6 and NX7e got 14 channels. **The maximum number of channels you can use in your model depends on set-***

tings in the System Setup menu > Frame Rate screen.

If you enable an 11ms frame rate by using "Hybrid 11/22ms", then you can only use 10 channels, and only 4 channels truly run at 11ms. Otherwise, with a 22ms frame rate, you can use up to 20 channels. The first 12 channels will run at 22ms, and the other 8 channels will run at 22-88ms.

Also on the Frame Rate screen, radios with 20 channels offer you a setting for XPLUS, to either inhibit or enable it. Channels 13-20 are known as the X-Plus channels. Enabling this setting allows you to use the full 20 channels.

The "DX18 Compatibility" setting controls whether or not your model is designed to work with more than 12 channels on a DX18. If you leave this setting inhibited (off) then channels 11 and 12 behave normally as Aux6 and Aux7, and you'd have 20 channels total when you add X-Plus. If you enable DX18 compatibility, then channels 11 and 12 copy the output of channels X+1 and X+2 (13 and 14), and anything you configure to operate on Aux6 and Aux7 would be ignored. While this still sends 20 channels over the air, you only have direct control over 18 of them.

To use channels 13 and 14 with a receiver that supports 14 channels without X-Plus, change the Frame Rate " 14@22ms".

Based on those frame rate settings, you can adjust the number of channels you see throughout your model settings and also in the Monitor screen.

For channels 1-14, go to Function List menu > Servo Setup, then scroll all the way down to the bottom where the mini Monitor is at. Then you can press the scroll wheel and start rolling to change how many of the first 14 channels are visible.

If you have enabled X-Plus, then you'll see a second Monitor screen (scroll wheel to the right) for channels 13-20.

To change the default number of the first 14 channels you see for a new model (not the current model), go to System Setup menu > Preferences and change the setting for Channel Monitor.

Combo switch feature

A **Combo Switch** allows you to take two inputs (typically toggle switches, but not necessarily physical inputs) and tie them together such that you have things like "if switch A is in this position AND switch B is in this other position then report this Combo Switch as being either in position 0 or position 1." The AND can be AND, OR, or XOR and you can specify with check boxes which positions you are looking at. Combo Switches are limited to an output position of either 0 or 1.

A **Logical Switch** is a table driven thing

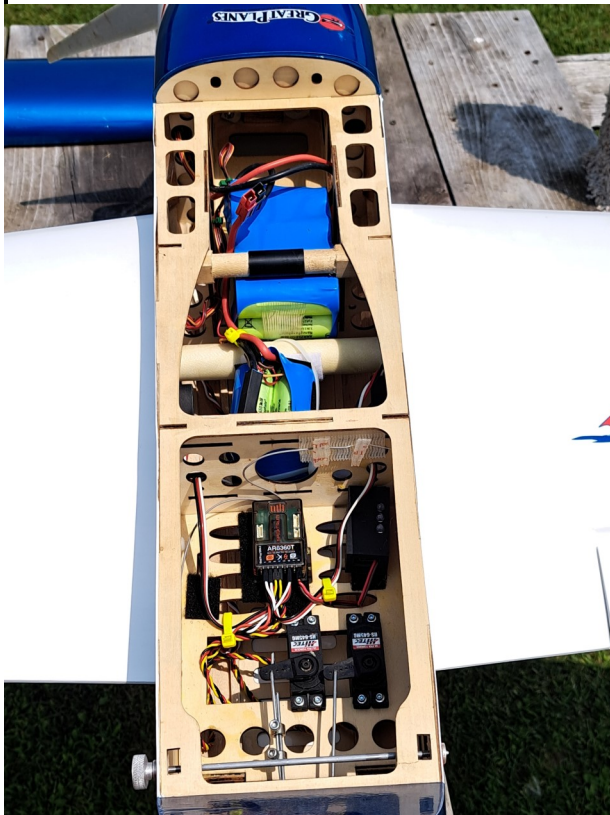
where you take two inputs and generate an output position of 0 through 9 based upon the value in the table. This is similar to how the Flight Mode system works. Just fill the table in.

After you have created either type of switch, you can use it to control things like mixes or channel outputs just like any other switch.

(Quote from Andy Kunz, Horizon Hobbies Spektrum Software Engineer.)

Please note that www.youtube.com has a number of videos on the Spektrum line of radio systems. YouTube also likely also has videos on the other brands of radios we all use for our RC models.

DennyV
RRCC Newsletter Editor



DennyV's "Revolver" model airplane set-up.

If my fading memory is correct, this model originated from Ron Dixon of several years ago.

It is equipped with a Hacker A60-5XS brushless motor running at around 1600 Watts. The battery pack is a 7S2P A123 unit (Surprise!). The battery was split for CG reasons.

The motor turns an APC-E 17X10 at 7200 RPM.

This model airplane was pulled from long term storage in my garage. It was first flown after some 5 years storage this past month.

It does fly very well indeed.

Picnic Photos from July 2024





Racine RC Club Picnic

July 21, 2024



Compost Duty Roster

Date	Time	Name(1)	Name(2)
08/07/24	12-2	John Boldt	
08/07/24	2-4	Gary Bokowy	
08/07/24	4-6	Ed Jenkins	
08/14/24	12-2	Ed Jenkins	
08/14/24	2-4	Marv Tridle	
08/14/24	4-6	Dan Pozel	
08/21/24	12-2	Terry Peterson	
08/21/24	2-4	Doug Krage	
08/21/24	4-6	Ed Jenkins	
08/28/24	12-2	Don Parkinson	
08/28/24	2-4	Wayne Greisen	
08/28/24	4-6	Gary Bokowy	
09/04/24	12-2	Bob Johnson	
09/04/24	2-4	Marv Tridle	
09/04/24	4-6	Gary Bokowy	
09/11/24	12-2	Bob Johnson	
09/11/24	2-4	Wayne Greisen	Bob Johnson
09/11/24	4-6	Doug Krage	
09/18/24	12-2	Marv Tridle	
09/18/24	2-4	Wayne Greisen	
09/18/24	4-6	Eric Armantrout	Roman Kirykwiez
09/25/24	12-2	James Martinich	
09/25/24	2-4	James Martinich	Jim Houtsinger
09/25/24	4-6	James Martinich	
10/02/24	12-2	Jim Litwin	Gary Anderson
10/02/24	2-4	Jim Litwin	Jim Houtsinger
10/02/24	4-6	Jim Litwin	Roman Kirykwiez

01/21/24	Sunday	Club Meeting		07/22/24	Mon-Sun	EAA Kid Venture
02/18/24	Sunday	Club Meeting		08/03/24	Saturday	Bong Eagles Free Flight
03/02/24	Saturday	Awards Banquet		08/03/24	Saturday	Marks Float Fly
03/17/24	Sunday	Club Meeting		08/04/24	Sunday	Circle Masters
04/01/24	Monday	Change Lock Codes		08/10/24	Saturday	Electrons Boy Scouts
04/06/24	Saturday	Model Engine Collector		08/15/24	Thur-Sat	Fon Du Lac War Birds
04/14/24	Sunday	Club Meeting		08/18/24	Sunday	Fon Du Lac Fun Fly
05/19/24	Sunday	Club Meeting		08/18/24	Sunday	Club Meeting
06/01/24	Saturday	Shelter Tear Down		08/24/24	Sat-Sun	Circle Masters Demo
06/01/24	Saturday	Circle Masters		08/25/24	Sunday	Open House
06/08/24	Saturday	Fon Du Lac Fun Fly		09/07/24	Saturday	Electrons Fly/Swap
06/09/24	Saturday	Club Meeting		09/08/24	Sunday	Watertown Demo
06/22/24	Saturday	Sky Ranch		09/14/24	Sat-Sun	Electrons Pattern
07/06/24	Saturday	Bong Old Timers		09/22/24	Sunday	Club Meeting
07/06/24	Saturday	Pebble Creek Flyers		10/05/24	Saturday	Shelter Set up
07/07/24	Sunday	Electrons Scale		10/19/24	Sat-Sun	Maker Faire
07/13/24	Saturday	Astrowings Charity		10/20/24	Sunday	Club Meeting
07/20/24	Saturday	Rams Helicopters		11/17/24	Sunday	Club Meeting
07/21/24	Sunday	Electrons Electric fly in		12/15/24	Sunday	Club Meeting
07/21/24	Sunday	Club Picnic – No Meeting				

Tentative 2024 Schedule