

Program Inputs, Then Rx Ports, Then Do Mixing - Explained by Andy Kunz

Can anyone tell me why, when selecting (Sailplane Type) 2 Ail 1 Flap, I loose the ability to select Aux 2 under Rx Port Assignments?

I have air brakes/spoilers on Throttle and Aux 2 and would like to create a mix, but unable to select Aux 2 in the P-Mix.

Larry

Sure - take a look at the Monitor screen. There isn't an AX2 to choose - it's MOT. When you selected 2 Ail 1 Flap, it put the left aileron on the throttle port.

It would be easier to help if you had attached the SPM file. I had to assume you had enabled the motor option on the Sailplane Type screen.

Andy

First off, thanks for the reply Andy.

I didn't realize AX2 changed to MOT (edited for clarity). I just thought the Rx Ports were assignable, I just don't get the logic of why it reassigned the ports and took away the option to use Aux2.

I was trying to recreate a model program in the 9 that I have been flying with my DX8. So I assigned the Throttle back to MOT and wanted to assign AUX2 to Aux2. those are the two channels on the receiver I have the Spoilers plugged into. Bottom line, I just did not want to rewire the servos to the receiver.

Hope I'm making sense,

Larry

Yes, you are.

When the channel processor takes over a channel to use it for a different function, the old name goes away. When it took AX2 and changed it to MOT, AX2 ceased to exist as a functional block you can assign inputs to or mix to.

What you need to do is **first** create all the assignments of inputs (switches, sliders) to channel functions using the **Input Assign** screen. After you have that done, then go to

the **Rx Port Assign** screen and move those *functions* to the *ports* you want them to appear on.

Now you go and do the mixing you want to the FUNCTION names, not the PORT names.

Note that you will do things like putting the AX5 *function* onto the AUX2 *Rx port* to do some of this.

There are some tutorials on the RCGroups DX18 threads on how to do this. Some of them are a little dated (at one time you had to create mixes before moving channel ports, but no longer) but the principle is the same.

Andy Kunz - AMA 46063
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Andy, I'm a little lost with your instructions. If I assign AUX 2 to spoilers in the channel input config screen, there is no spoiler selection in the Rx Port Assign screen.

What I'm having a hard time understanding is, if the channel processor takes over the Throttle channel to use as the Left Ail function, I still can change it back to MOT, but I can't change AUX 2 from MOT back to Aux 2.

I know I can get the program to work in the DX9 same as the DX8 by starting from scratch and rewiring the receiver, but that's not my first choice.

I have attached the file from my DX8. Can you take a look and let me know if it can be duplicated in the DX9 using the same Rx inputs?

OK when I tried to upload the SPM file I get the following error:
25FOX3M_.SPM: Invalid File

1) DX8 will only work with DX8 files. DX9 will work with DX6, DX9, DX10t, DX18, DX18QQ, DX18G2, and DX18T files. That's why you got the error message. DX8 Sailplane is a small subset of DX9 sailplane.

2) You should go read the lengthy explanations I posted on RCG. They explain the differences between logical functions and physical receiver ports.

In short, the Channel Input Assign screen allows you to pick the physical (and some logical, such as sequencer or gyro) input attached to a logical device. That is, you can assign a switch to control the function AX2 (note the missing U).

The Rx Port Assign screen allows you to assign a logical function (AX2, MOT, FLP, etc) to a physical receiver port such as AUX5.

Since you have an SPM file now, can you please attach it? Rename it to .TXT so RCU accepts it (RCG allows SPM attachments, RCU does not).

Andy

Andy, the error I mentioned was when I tried to upload to RCU, not the 9.

Thanks again for your help. I will search you out on RCG to try and get my brain to follow the logic.

As I said before I just wanted to program the 9 in a way that I didn't have to disturb the wiring in the sailplane. This way I could easily rebind back to the 8 if needed.

Larry

You don't have to change the wiring if you set it up and then use the RX Port Assign to shuffle things around. What you have is a very straightforward configuration, but you can do several things in the DX9 without using a mix.

Andy