

Spektrum AR630/AR631/AR637T Receiver Programming

So you just obtained a Spektrum AR630 series receiver either new, a wrecked plane, or a swap meet and now you wish to use it in another plane. What do you need to do to program/setup the new airplane. The following is a step by step instruction to guide you through the process using your Spektrum 7 channel or higher (DX7/DX8/DX8e/DX9) transmitter. If you are using a six channel transmitter (DX6/DX6e) and your plane has retracts and flaps, you're screwed.

1. Register the receiver to the Spektrum website using the Spektrum AS3X Programming cable SPMA3065 and the Spektrum programming application.
2. Update the receiver with the latest "Software Update" Spektrum Programmer App. If the receiver has up to date software revision, go ahead and update it anyway. This helps "unlock" the receiver.
3. Steps 1 and 2 can be skipped if you can complete step 7 (Factory Reset).
4. Install the receiver in the plane.
5. Bind the receiver to the transmitter per normal BIND procedure.
6. Enter "Forward Programming" (FP) on your transmitter. Both transmitter and receiver must be powered to access FP.
7. Select "Other Settings" and select "Factory Reset". This should "unlock" all the FP features.
8. Exit FP.
9. Test all the plane surfaces for proper direction. Adjust as needed. Any servo direction changes after you are done with FP will require you to start over with "Orientation" programming.
10. Enter FP. Select "Gyro Settings" (GS). Select "First Time Setup". Follow the on screen instructions for model level, model nose down, and "Gain Select Channel". Do Not assign a GS Channel (leave it at INH) as this procedure is for fixed gain. Select "Apply". Receiver should re-boot.
11. Exit FP.
12. Go to "System Settings". Go to "Channel Assign". Assign AUX2 channel to Switch B. Exit back to the plane. Using the Monitor screen, verify AUX2 channel moves as Switch B is toggled.
13. Return to FP. Select GS. Select "F-Mode Setup" (FM). Select "FM Channel". Select "FM Channel" and assign it to Aux 2. Select "Input" and set it to "B". Go back to FP main menu.

14. Go to GS. Select "AS3X Settings". Select "AS3X Gains". Adjust gains as desired for each Flight Mode (using Switch B). The factory default is 40/50/60 which is fine for starters. Go back to AS3X Settings.
15. Select "Fixed/Adjustable Gain". Set all 3 axis (Roll/Pitch/Yaw) to "Fixed" for all 3 flight modes (using B switch). Exit FP.
16. Select FP. Select "First Time SAFE Setup". Continue. Use Switch B to select Flight Mode 1. Select to "SAFE Mode". Scroll to "Self-Level/Angle Dem and select. Select Flight Mode 2 and set "AS3X Mode" to "Act". Do the same for FM3. Click on Apply. Receiver should re-boot. Continue. Exit FP.

This next step is where user preferences come into play. For this example, Flight Mode 1 will be "SAFE" mode, Flight Mode 2 will be AS3X only, and Flight Mode 3 will be no gyro or SAFE.

17. Go to FP. Select GS. Select FM setup. Put Switch B in Flight Mode 1 (all the way down). Scroll to "AS3X" and select "Act". Scroll to "SAFE Mode" and select "Self-Level/Angle Dem". Set Switch B to mid position Flight Mode 2. Scroll to "AS3X" and select "Act". Scroll to "SAFE Mode" and select "Inh". Set switch B to the up position Flight Mode 3. Scroll to "AS3X" and select "Inh". Scroll to "SAFE Mode" and select "Inh". Exit back to FP main menu. Exit back to main screen.
18. Verify correct SAFE direction in FM1. Verify AS3X direction in FM2. Remember to advance throttle past 40% to initiate AS3X. Beware of the propeller. In FM3 verify there is no SAFE or AS3X functions.

Ready to Test Fly.

Good Luck,

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