JR X9303 Airplane Transmitter - DJI NAZA-GPS Interface Setup

The hardest part of setting up the Naza with GPS was configuring a JR X9303 transmitter to properly control the GPS - FAIL SAFE - ATTITUDE - FAIL SAFE - MANUAL selection in the Naza Assistant software. It took some trial and error, but these settings work perfectly with a JR R921 receiver. The procedure should work with any JR or Spektrum receiver, although your results may not be exactly the same as these. Hopefully, this explanation will help you avoid the frustration of figuring the programming out on your own.

1. The first step is to connect the receiver to the Naza. Here are the connections I made:
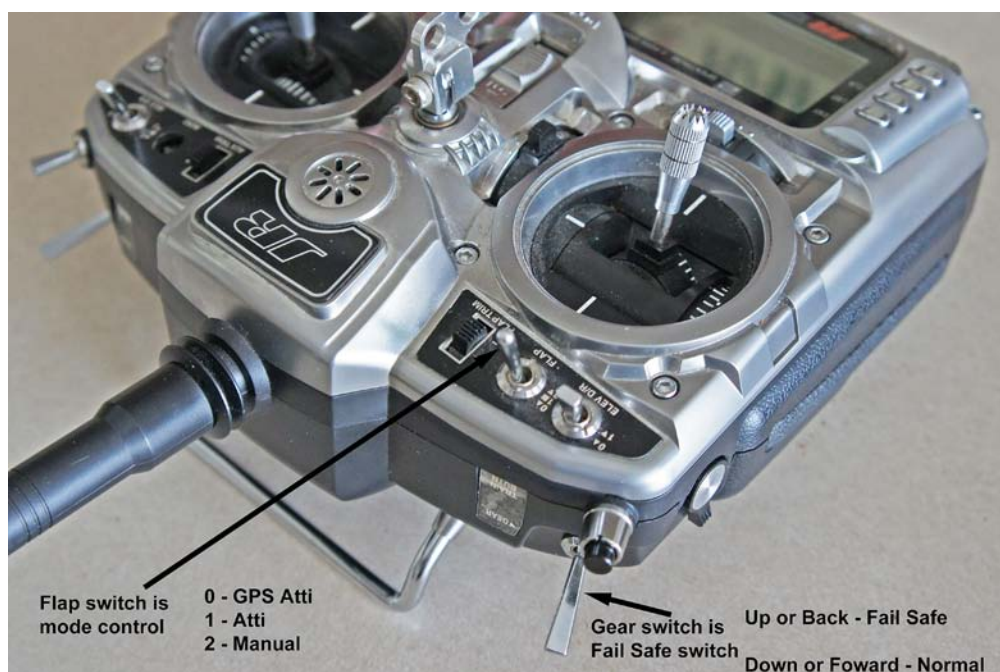
JR R921 Receiver	Naza
Throttle	Throttle
Aileron	Aileron
Elevator	Elevator
Rudder	Rudder
Gear	U - Used to control Fail Safe and select Flight Control Modes.
AUX1	Not connected.
AUX2	X2 - Used for IOC (Intelligent Orientation Control)
AUX3	X1 - For gimbal pitch control
AUX4	Not connected - to be used for camera shutter control
Bind Plug	Connected to a servo extension brought to the edge of the frame for easy access.

We are going to program the gear switch to turn the Fail Safe mode ON and OFF and use the three position Flap Switch to select between the GPS, Attitude and Manual modes. Here are the switch locations on the transmitter.

Flap switch is mode control
0 - GPS Atti
1 - Atti
2 - Manual

Gear switch is Fail Safe switch
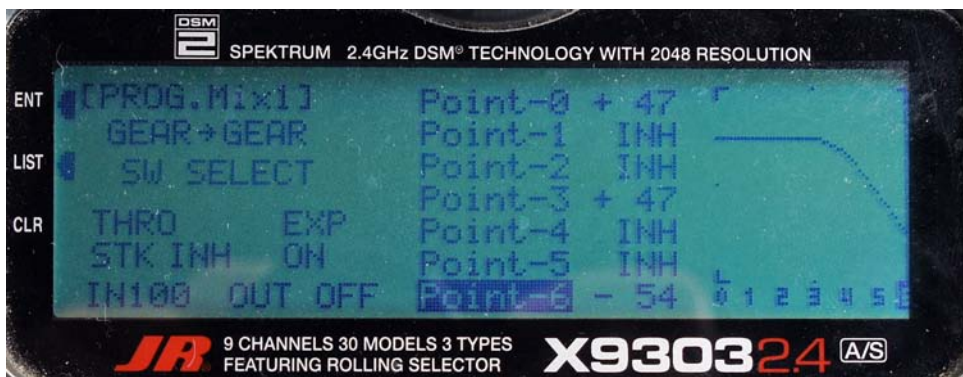Up or Back - Fail Safe
Down or Foward - Normal

2. Setup a new airplane ACRO model in the transmitter. Give it a name and select a number in the model sequence. If you've forgotten how to do this, just check the manual. If you've lost the manual, download one from the JR web site.
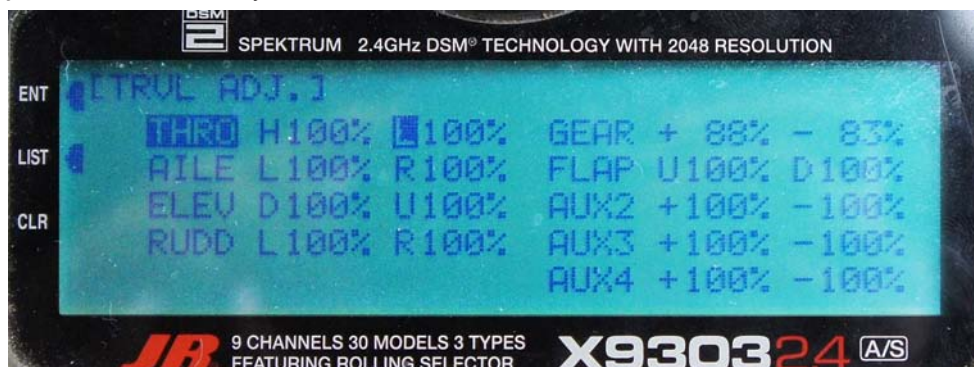
3. Go to the Device SEL menu. (Check the manual if you forgot how.) You'll have to make some changes here. Set the GEAR over FLAP SW and FLAP over FLAP SW. AUX 2 channel is used to control the Naza IOC capability by connecting the receiver AUX2 port to the NAZA X2 input port. I assigned AUX2 to the right slider (AUX3 LEV) to select the between the three IOC modes. You may prefer to leave AUX2 on the default AUX2 SW to control IOC. Either way works fine. AUX3 is set to the FLAP LEV which is the left slider. If a gimbal is installed, It can be used to control gimbal pitch. AUX4 is assigned to the trainer button. If a camera is installed, the button will make a great shutter release.
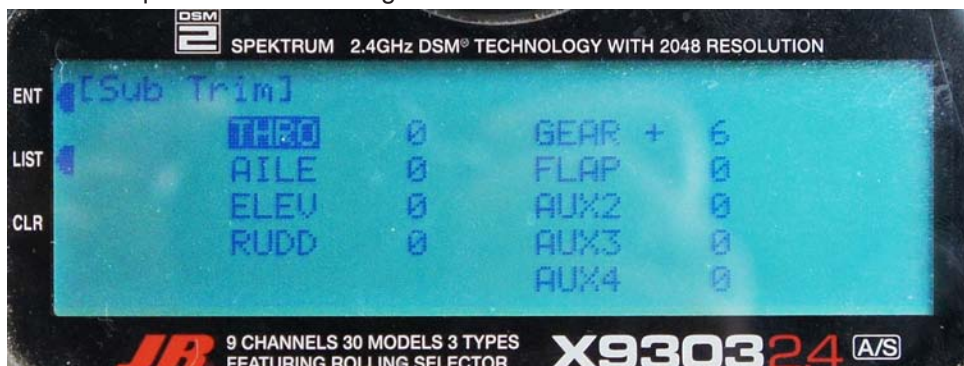

4. Next, were going to setup MIX1. Begin by taking MIX 1 out of the default INH (inhibit) selection. Mix GEAR as the master to GEAR as the slave and then set up the curves. The numbers in the picture below worked and should be a good start. You may have to do some fine tuning on your setup.

5. It will be necessary to set the Travel Adjust for GEAR. Below is what worked for me.

6. Sub Trim for the GEAR will require some fine tuning. Here's what worked for me.

7. The AUX2 Channel (either slider or switch) requires no programming and will select Home Lock, Course Lock or OFF. With a bit of fine tuning, you should be good to go. Hope this helps. Keith M.