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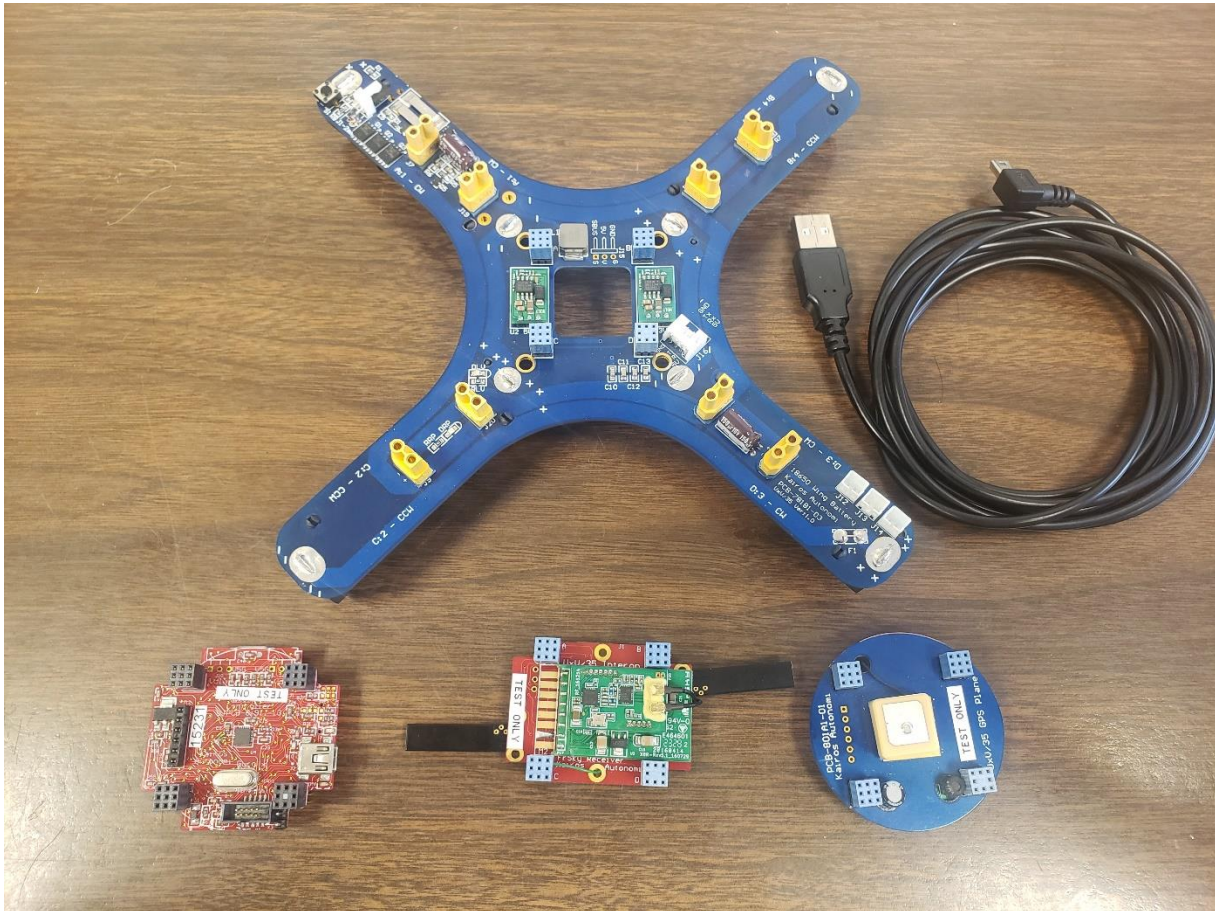www.kairosautonomi.com

UxV/35 FrSky SBUS Radio Test Procedure

Purpose: The purpose of this document is to outline the procedure to test the UxV/35 FrSky SBUS Radio. The test consists of verifying binding to a Taranis transmitter and connecting to a computer with Mission Planner software installed and verifying inputs through the radio.

UxV/35™ FrSky SBUS Radio Test Procedure

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Binding the UxV/35 FrSky SBUS to the Taranis:

Turn on the controller by pressing and holding the power button in the middle of the controller. Press the big circular knob on the bottom right to move past any pop ups

With the Taranis powered on and already on the home screen
1. Briefly press the 3 horizontal line button once. In the top right of the screen "1/12" should be displayed
2. Next, briefly press the "page" button. The top right should now display "2/12"
3. Spin the circular button and find the row labeled "RxNum". Move the selection reticle (Black Blinking Rectangle) until it is covering "[BND]" and press the circular button down twice.
4. Verify that the menu disappears and the controller begins to beep.

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5. Attach the UxV/35 FrSky SBUS Radio to a power source. This can be the intended drone or any power source with compatible UxV/35 Mission Controller and GPS.

6. On the SBUS receiver board find the bind button on the board as shown. Hold down the bind button and then power on the board.

7. Optionally if you have a UxV/35 bind tool board, instead attach the **Bind** Tool on top of the stack then press and hold down the **Bind Tool** button. Power on the UxV/35 FrSky SBUS Radio while holding down the bind tool button.
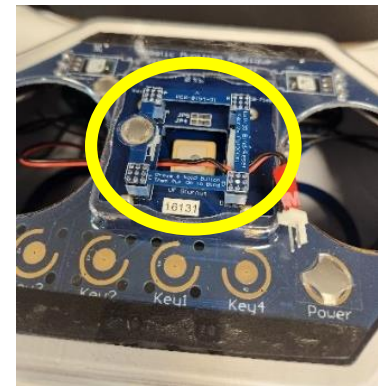
8. A successful binding will have a flashing red light with a solid green light. If this does not happen then power cycle the board and try again.

9. When you see the correct lights, you may release the button and power cycle the board without holding the bind button on the receiver board.

Green LED	Red LED	Status
ON	Flashing	Binding
Flashing	OFF	Normal
OFF	Flashing	Signal Lost
Flash Twice	OFF	Failsafe Set

10. Press the exit button on the Taranis 3 times and you should now see a signal strength indicator next to the battery level like shown.

11. The drone is now successfully paired to the Taranis and is ready for flight

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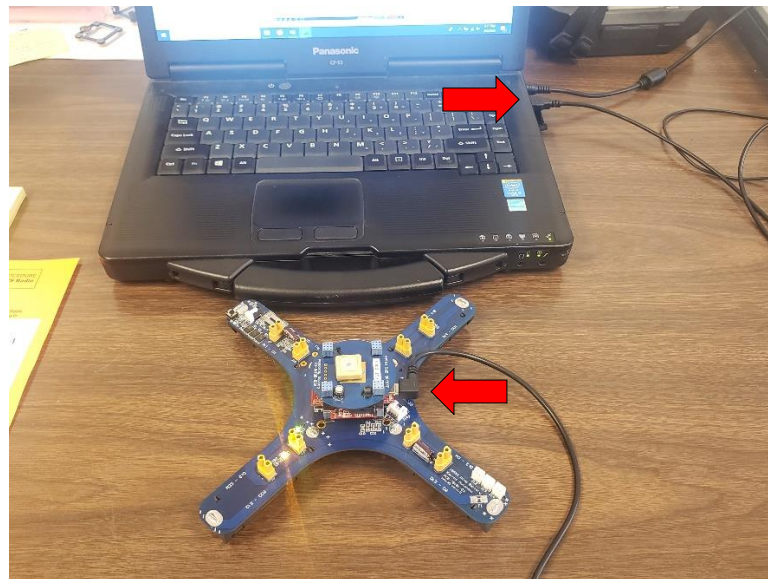801-907-7870 (fax)
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Verifying UxV/35 FrSky SBUS Radio Input:

1. Open Mission Planner on the computer.

2. Connect a USB A to USB Mini cable to an open port on the computer and the other end to the USB Mini port on the UxV/35 Mission Controller.

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3. Click the drop-down arrow next to the COM port box in the upper right corner of the Mission Planner window and select the corresponding COM port for the UxV/35 Mission Controller board.
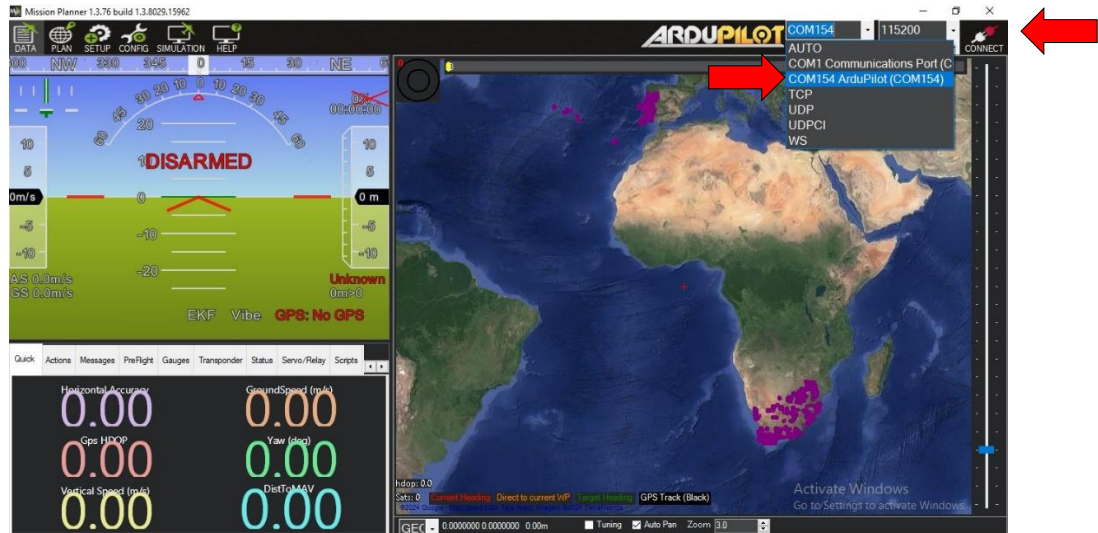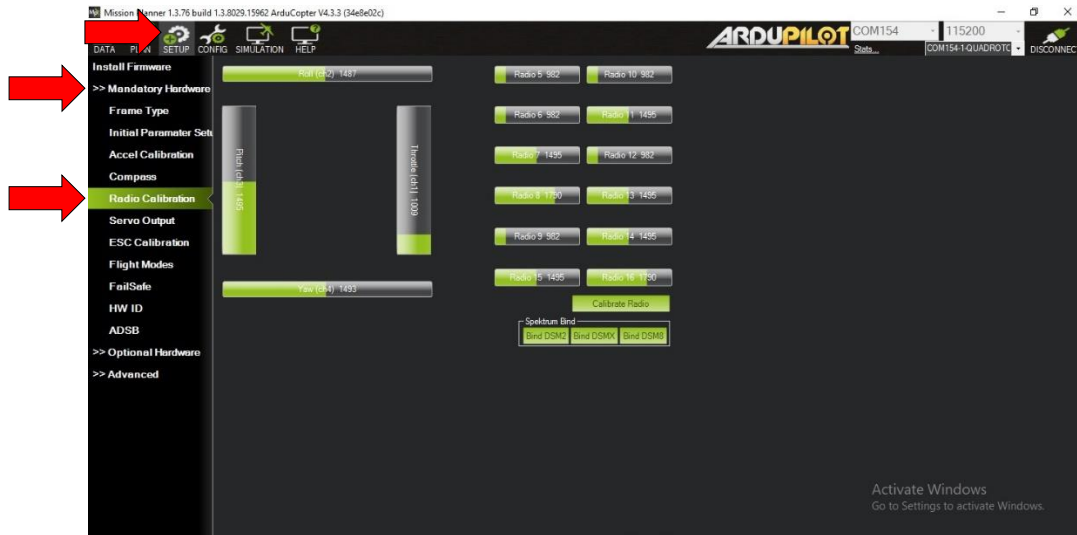

4. Click the Connect button in the top right corner of the Mission Planner window. Wait for the connection process to complete.
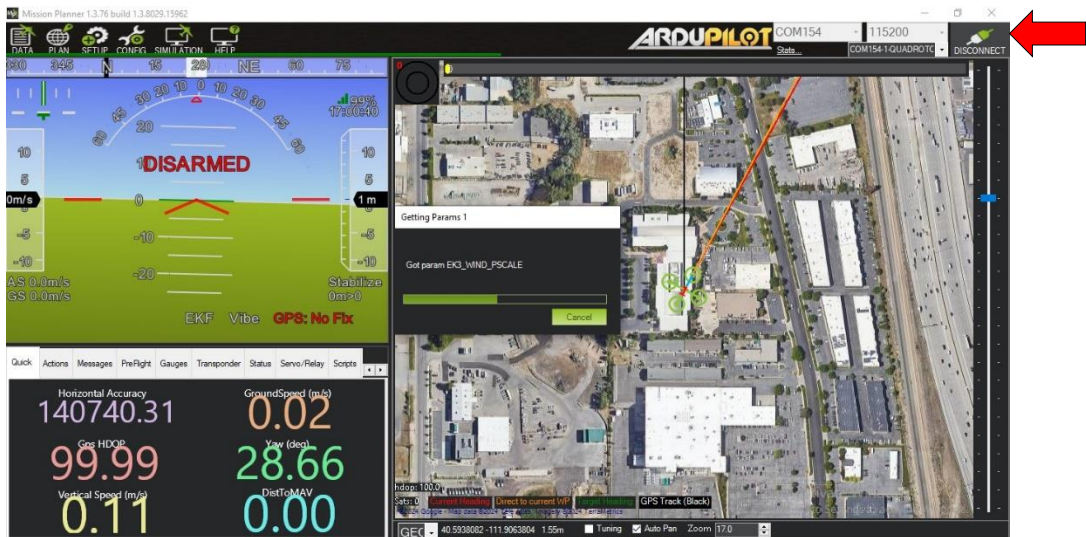
5. Click the Setup button in the top left corner of the Mission Planner window. Click the Mandatory Hardware tab in the left pane and select Radio Calibration.

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6. Move the sticks around on the Taranis and verify the inputs on the Mission Planner window.

7. If the UxV/35 FrSky SBUS Radio responds to input and signal is seen, the board is working correctly and can be configured for use.

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