No Radio Connection to Base Receiver. Troubleshooting Step 3. Vectors EDU Tutorial. Transcript.

Alright, so real quick we are going to run through our TDL settings. This, in combination with our survey styles, should resolve our Radio Link Down or No Radio issue.

So, first thing we are going to notice here is **Device Status Battery: Normal.** I'm going to hit the arrow to the right.

Here's where we're going to make note of our **Channel/Frequency**. Currently set to channel 9. The only thing I want you guys to look at is our RX light. If our RX light is blinking that means we are being walked on or there's another surveyor in the area who is also using this frequency. If you have an RX light, we use our up or down arrows to pick a different frequency and hit our center button to lock that in. And I know we've changed that setting because of the asterisk. RX light is not blinking so channel 10 looks open to me.

Here's where we're going to set our **Data Protocol**. We're going to set this to TTv1 (or TrimTalk Version 1). This is our over-the-air baud rate. We have some different options in here depending on which firmware you are currently running. We want to leave this at TTv1. Lock that in with the asterisk/center button.

Next, we have our **Radio Link Rate**. This is our over-the-air baud rate that's being transmitted through our antenna cable and out the antenna at the base and then being received by our rubber duck antenna at the rover. We want to set this to 9600.

Operation Mode – we want this at Base/Rover. We can do a repeater set-up or some other options here, but a standard traditional RTK set-up we want the setting as such.

RX Sensitivity – we want this set to Low (Base) that means the TDL is only focusing on transmitting a signal, it's not listening in a repeater-type capacity.

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Transmit Power – we have different options here. I recommend starting at 8 watts. You can bump to 16w or 25w as necessary but in this instance, I find less is more.

RX LED Meaning – currently set to Signal Received. We want this set this way so any time our RX light starts blinking that means I know I have another field crew or another firm in the area who is walking on me and using the same frequency. That will be an indicator to me I need to change freqs to find an open one so I can get my work done.

And last thing I'll cover here is the **Serial Baud** rate. We want this set to 38400 and this is the rate at which we are flowing data from our base station to the TDL. This will also match the exact same setting in our Survey Style.

And those are the recommended settings for the TDL 450.