



Thank you for signing up to receive my newsletters. I hope you've found the previous editions informative and helpful for your vehicle-supported adventures. I trust you will enjoy this month's newsletter. If you have comments, please email me:

Bob.Wohlers@discoveroffroading.com. You can access, download, and read previous newsletters on my website by clicking [HERE](#). Look through the Newsletter Reference for a topic that may interest you, or download them all!



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## More Starlink Mobile Information

Yesterday's newsletter was getting a bit long, so here's a second installment focusing on my Gen 3 Starlink mobile set up in my Jeep JK. If you haven't read newsletter #49, go read it first.

**If you're not interested in the Starlink "stuff," then scroll down to some other Off-Road Safety Academy updates.**

### **Trio 12v Power Converter Install**

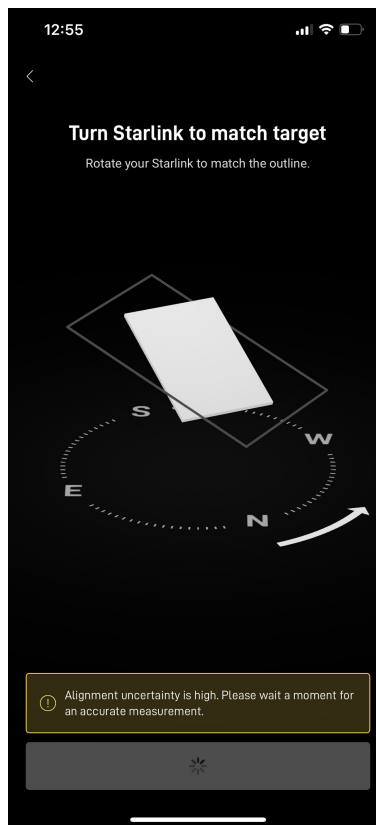
I took my testing of the Trio 12v power converter (click [HERE](#)) to its final level and install in my Jeep JK. If you look closely at this photo you can



see that I wired a cigarette plug onto the end of the Trio converter. This connector simply plugged into my National Luna LiPo4 Battery Box in the rear of my Jeep (click [HERE](#)).



After connecting the Trio power supply I used my multimeter tester to measure the input and output of volts, then resistance (ohms). All the numbers were excellent so I went ahead connected the Starlink router and Gen 3 dish.

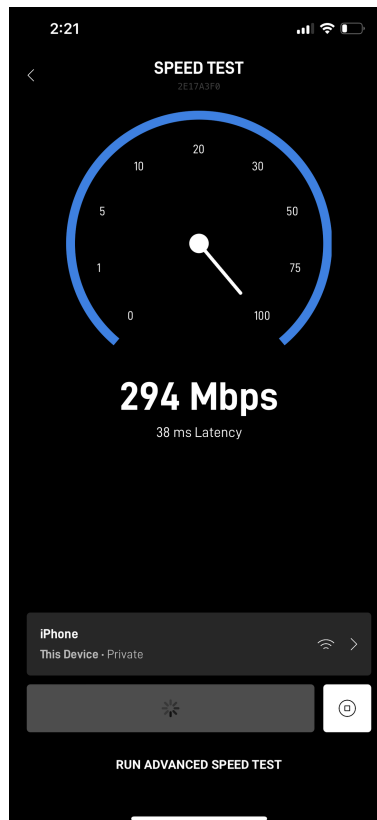
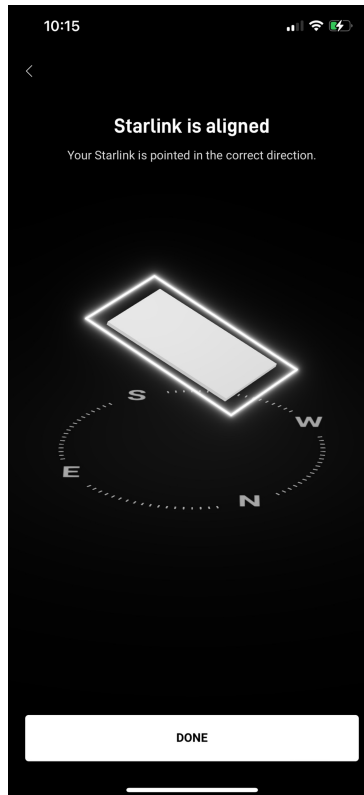


## Dish Alignment

Once the entire system was connected and powered, I opened the Starlink App on my phone. After the system booted, I was able to accurately align the dish on the ground toward the best view of satellites to the north. This screen grab shows a misaligned dish and the arrow shows which way it needs to be turned on the ground for proper alignment.

As you turn the dish on the ground by hand, the App shows its proper alignment with a rectangle outline. Once the dish is inside the alignment rectangle, you're finished. See the screen grab below showing proper alignment.

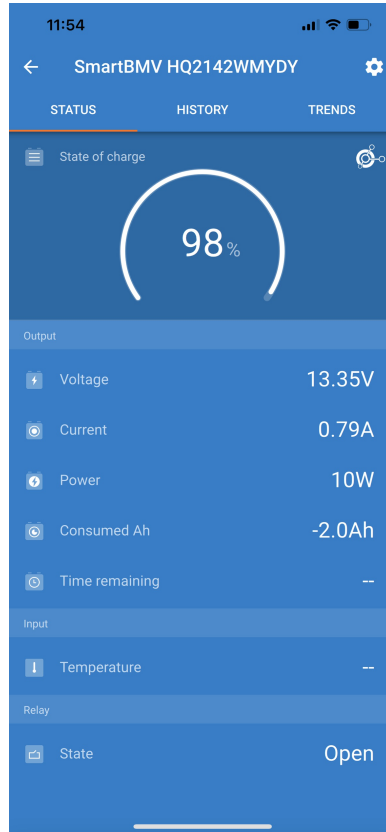
There are no motors in the Gen 3 dish like the Gen 2 units. You simply align the dish by hand. Honestly, I like this simplicity. Some argue that because the Gen 3 dish doesn't have motors to align the unit automatically, the Gen 3 system should cost less (less complexity and material). I think mechanical simplicity is worth something also. The Starlink App makes hand alignment on the ground very easy.



## The All Important Speed Test

Once I had the Starlink system completely set-up and aligned, I conduct a speed test from the rear of the Jeep. See the results in the screen grab on the right. I realize this is not as fast as cable or fibre optic internet, but still very

impressive in the field via satellite.



## Portable Power Numbers

Pictured here are the numbers from my Victron SmartBMV while the Starlink is on and operating. These are great numbers, allowing me to run the system out of my Jeep for hours.

**Note:** I use all Victron equipment for power management in my Four Wheel Camper and Jeep. I like the ruggedness of Victron devices, their VictronConnect App, and the worldwide availability of help and replacement equipment. I use their Orion-Tr DC-DC Charger, Smart Solar MPPT, Smart BMV (in my Jeep), and Smart Shunt (in my camper).

Folks often ask me about Redarc components. To be honest, I've no experience with similar Redarc electronics for portable power. I won't comment on Redarc equipment except to say they seem a bit pricy. Perhaps that's because they are better quality or perform at a higher level? I just don't know. If you are using Redarc equipment, what's been your experience with Redarc? I'm genuinely interested. Email me: [bob.wohlers@discoveroffroading.com](mailto:bob.wohlers@discoveroffroading.com)

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# 4WD Clinics at the First Annual East Mojave Trek



Attention all desert lovers! The Mojave Desert Heritage & Cultural Association (MDHCA) and the California Four Wheel Drive Association (Cal4Wheel) announce a unique opportunity to enhance your knowledge and understanding of the eastern Mojave Desert. Whether you are an experienced off-roader or a novice, don't miss the East Mojave Trek on April 18-21, 2024, in Goffs, California.

I want to see you at this event! I will be donating my time to teach three clinics at the event focusing on off-road planning and safety. Come and refresh your knowledge, learn new stuff, and share with fellow off-roaders. I'm anxious to share a beverage with you and learn from your experience.

Topics include:

1. The Total Approach to Getting Unstuck Off-Road - This is a Hands-On Skill Clinic
2. In-Field Tire Repair - This is a Hands-On Skill Clinic
3. Basic Survival for Vehicle-Supported Adventurers - Knowledge Clinic

Registration for the event includes attendance at my clinics, camping on site, dinners in the evening, raffle, event T-Shirt, docent lead tours of the Goffs Schoolhouse and property, plus motorized tours of the east Mojave, including



portions of the Mojave Road and the East Mojave Heritage Trail.

Come and hangout in the spectacular Mojave Desert with the wonderful Cal4Wheel members. I'd love to share some time with you at this event and around a campfire.

To join this most worthy association, Cal4Wheel, and learn more about the East Mojave Trek, click [HERE](#).

To learn more about the Mojave Desert Heritage & Cultural Association (MDHCA), click [HERE](#). This is a hard working association worthy of your membership. Their purpose is to preserve and share with you this very special region.



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