

Getting Started:

- Assemble rover and make sure that you use the note what receiver you are using. You do not need to attach the pencil antenna because your cell from is acting as your antenna. In the controller select **Configuration > Controller > Bluetooth**, the top selection to connect to **GNSS receiver/VX/S Series**, select the proper receiver (Rover 1, Rover 2 or Base), then accept the changes. The unit is receiving corrected xyz data from the MNDOT server.
- Manually turn on power on all equipment.
- **(To create a new job)** In the controller, start a new job by selecting **Files > New Job**, Then enter in your job name. Check to make sure the coordinate system is **"US State Plane 1983, MN North 2201"** and check **"use geoid model"** and select **"GOID03"**
- **(To survey an existing job)** In the controller, **Select Files > Open Job**, then select the job to survey.
- To start the survey select **Survey > RTK_VRS_ "name of phone" > Start Survey**. You should see the that it is connecting with the modem and you will select **CMRx_NAD83(1996)**. When the rover indicates that it is fixed, you are ready to survey.

Troubleshooting:

- If you are having trouble taking a survey point,

Check to make sure you have good satellites by looking in the upper right corner and ensuring you have a minimum of 5. Then check the plot to make sure you have good satellite geometry by clicking the "number" of satellites to show the sky plot. When the controller tells you that there is "poor PDOP" that related to the satellite position and there is not a lot we can do with that other than wait for a better time of the day.

Look in the upper right and you will see a upside down "T", if there is a red line across it that means that the cell phone is not connected to the MNDOT server for some reason. The most common reason will be because there is low signal in the cell phone. You can try to hold the phone higher or take it out of your pocket to get more signal strength. Once you lose connection it may be necessary to reconnect. To do this select **Configuration > Dial Profiles**, highlight **"name of phone"** and select connect on the lower right of the screen. It may take a few minutes to reconnect. If this does not work, end survey and restart the survey.