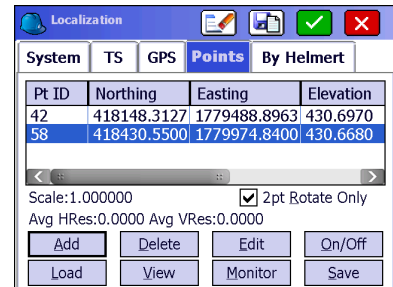


This is in regards to using SurvCE Version 6.02 or higher with a “2 point Rotate Only” method scaled to Ground

Localizing using 2 Point Rotate Only then scaling to Ground

- 1) Run Equip / GPS Rover and get a “Fixed” solution with your GPS Rover
- 2) Go into Equip / Localization and set your System tab to the correct USA Nad83 projection
- 3) Tap the Points tab

- 4) **Occupy a known point** with your GPS Rover and tap the “Add” button then type in the point number from your CRD coordinate file you are occupying *{or select it from the List or Map}*
- 5) Tap the Green Check then tap the Green Check again to use the “Read GPS” option
- 6) Plumb up over the point and tap the Green Check again in the upper right to take 10 or 20 readings
- 7) Tap Green Check to accept the results

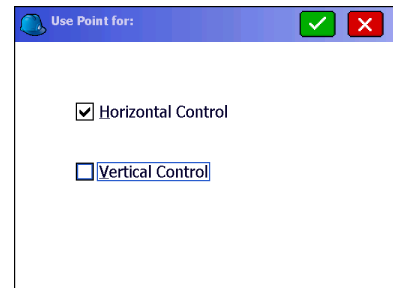


Pt ID	Northing	Easting	Elevation
42	418148.3127	1779488.8963	430.6970
58	418430.5500	1779974.8400	430.6680

Scale: 1.000000 ☒ 2pt Rotate Only
Avg HRes: 0.0000 Avg VRes: 0.0000

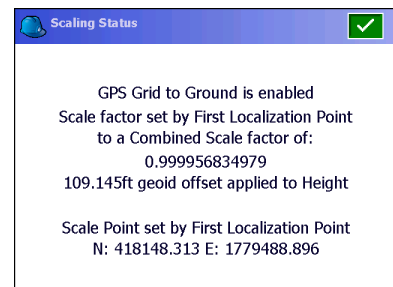
Buttons: Add, Delete, Edit, On/Off, Load, View, Monitor, Save

- 8) Now walk to your **2nd known point** that you have coordinates for and repeat Steps 4 through 7 to add in this second point
- 9) After adding in both points to the Points tab tap next to the “**2pt Rotate Only**” checkbox to CHECK the box
- 10) Now tap the 2nd point in the list to highlight it and tap the “On/Off” button in the bottom right and **UNCHECK the box** next to Vertical control then tap the Green Check to save your changes



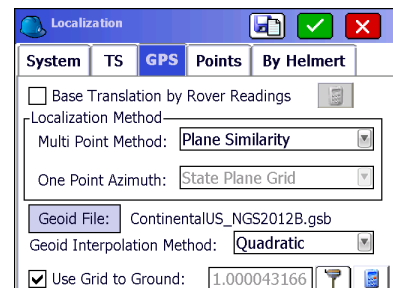
☒ Horizontal Control
☐ Vertical Control

- 11) Tap the **GPS Tab** then tap the Green Check to save your Localization File (Tap “no” if prompted to reprocess)
- 12) Check the box for “**Use Grid to Ground**” and the Scaling Status dialogue will be displayed



GPS Grid to Ground is enabled
Scale factor set by First Localization Point to a Combined Scale factor of:
0.999956834979
109.145ft geoid offset applied to Height
Scale Point set by First Localization Point
N: 418148.313 E: 1779488.896

- 13) Tap the Green Check to accept the GPS Grid to Ground Information
- 14) Then tap the Green Check again in the top right to Apply these changes to your Job and return to the Equip tab in the Main Menu. (Tap “no” if prompted to reprocess)



Localization Method:
Multi Point Method: Plane Similarity
One Point Azimuth: State Plane Grid
Geoid File: ContinentalUS_NGS2012B.gsb
Geoid Interpolation Method: Quadratic
☒ Use Grid to Ground: 1.000043166