

Carlson Boretrak 2 Field Reference Sheet

1. Equipment Preparation

- Ensure batteries are fully charged for the Boretrak and RT4 Tablet.
- Unpack and assemble equipment.
- Attach cable brass fitting to the Boretrak
- Unwind braided cable to length desired then loop & tie remainder.

2. Software Preparation

- Open Boretrak software on RTK tablet
 - Create a new project.
 - Import designed Holes (recommended)
 - Press **Create** when finished.
- Connect to the Boretrak probe [**Control** tab – **Find Boretraks**]

Additional Information

- Probe Status Indicators



Probe Information



Alignment Options



Probe & RT4 Battery Status



Probe Led Status Light

- View Ribbon



Grid & Compass Display



Views



View Control

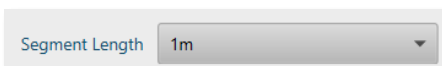
- Ensure the following are applied in the *Settings* menu:
 - *Boretrak* – *Gyro Quality Factor*: move slider to **Low**
 - *Folders*: Check **Use Project Folders** option.

3. Probe Alignment/Calibration

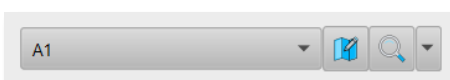
- Refer to *Boretrak calibration guide* to determine the optimal alignment method. Assemble alignment jig and set aside.
- Press  **Align Gyro** button.
- Input initial heading value then press **Finish**.
- The probe led status light will be flashing green  - the device is now ready for deployment.

4. Deployment

- Select desired **Segment Length** in the drop-down box; *1, 2* or *Custom*



- Select default hole, manually select imported hole, or add *New Hole* within the Holes drop-down list.

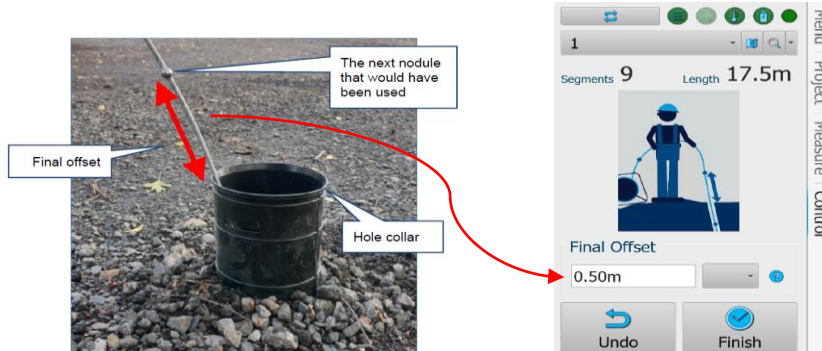


Use the **Holes** menu to edit or rename existing holes.

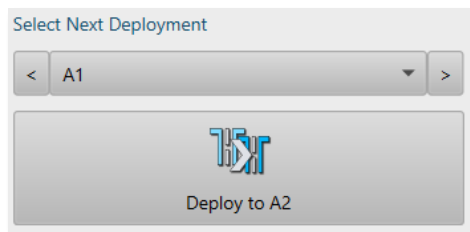
Tip: Press the Zoom to hole button  for a closer 3D view of the hole. (Ensure the view is *Perspective*)

- Position the Boretrak probe inside the hole with the back of the probe in-line with the hole collar.

- d. Lower the probe down hole to specified segment length then Press **Take Reading** button.
(Label and nodules are included along the cable to assist with length tracking)
- e. Once the probe reached the bottom of the hole, straighten cable slack, and observe the length from the hole collar to the next nodule. This will be the *Final Offset* value.
Press **Final Reading** and input the *Final Offset* value then press **Finished**.



- f. Under Select Next Deployment, press **Deploy to [Row][Hole #]** button to proceed to the next hole.
Alternatively, use the drop-down list to manually select the next hole.



Additional Information

- Periodically check the live *Heading* and *Inclination* values (in *Control* tab) for abnormal drift.
Observe the values at the collar then deploy the probe downhole as normal. Upon retrieval of the probe check the values at the collar again. The probe will require calibration (Step 3.) if a higher-than-expected drift occurs.

5. Generate Report

- a. Press the **Reports** button in the main ribbon.
- b. Check the boxes of the holes to be included in the deployment report.
- c. Press **Show** and a PDF file will automatically be generated and opened in external web browser.
- d. The report can be saved or printed as required.

6. File Export

- a. Press the **Export** button to export the project into various file formats.
The file will be stored in the **Exports** folder within the specified *Project Folder* directory.

7. Disassembly and Storage

- a. Save project on RT4 tablet and close software. Shutdown device: *Windows icon - Shutdown*
- b. Disconnect Boretrak probe from brass fitting on the cable.
- c. Thoroughly wipe down the probe & accessories with a clean rag. (Avoid harsh solvents).
- d. Disassemble probe and remove batteries (charging is recommended after heavy usage)
- e. Apply provided silicone grease to thread of the probe nose cone for easier assembly.
- f. Place equipment back into allocated slots of the storage case.