

**TruPulse ® Series Connection to GEO XM/XT/XH**

TruPulse 200B & 360 Properties:

Firmware Version: any release

GEO XT Properties:

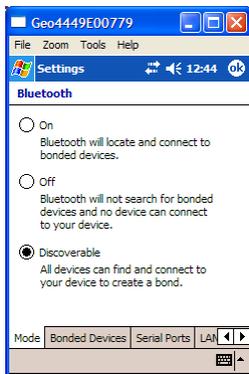
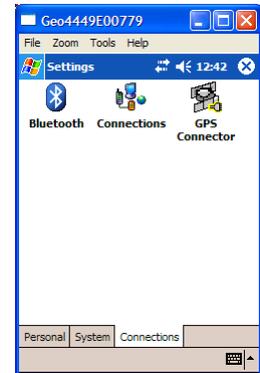
PPC 2003/ Mobile 5.0

TerraSync V2.52 – V2.61

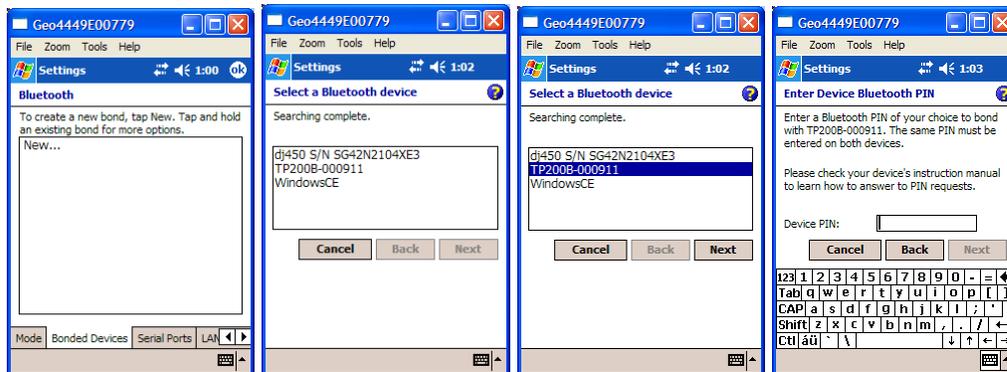
Firmware 1.82 & 5.1.16 OS

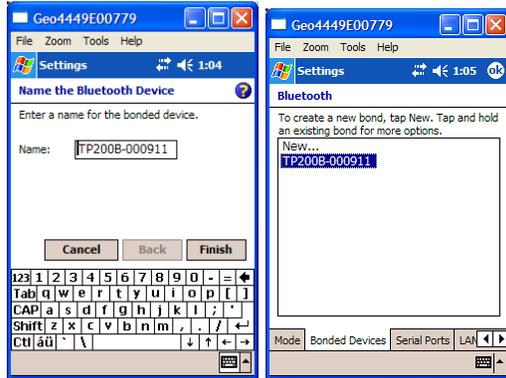
1. Power on the TruPulse and turn Bluetooth on (refer to the TruPulse manual).
2. Power on the GEO XT, navigate to Start / Settings/ Connections / Bluetooth

3. On the Mode tab, check Discoverable.

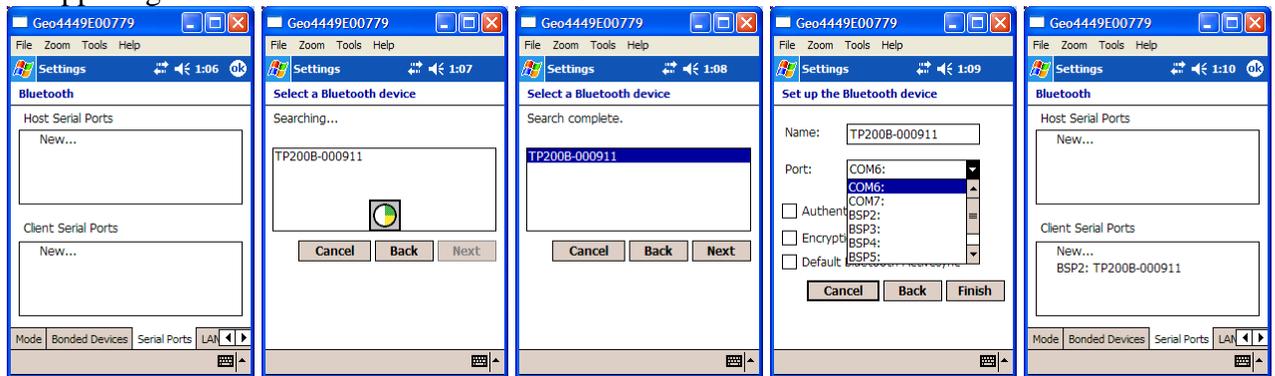


4. On the Bonded Device Tab, tap on New... and the TruPulse will be discovered. Tap on its name and tap Next. Enter the PIN:1111 and tap Next again. Accept the default name and tap Finish.

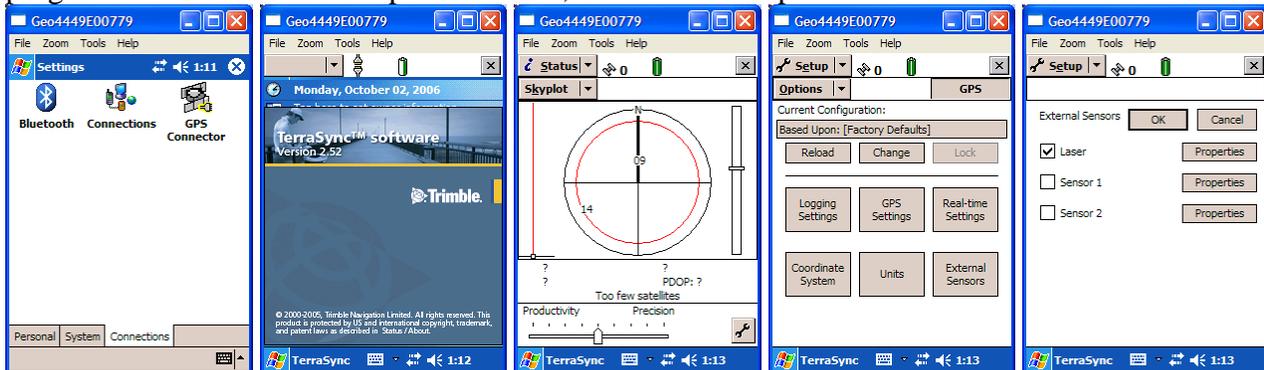




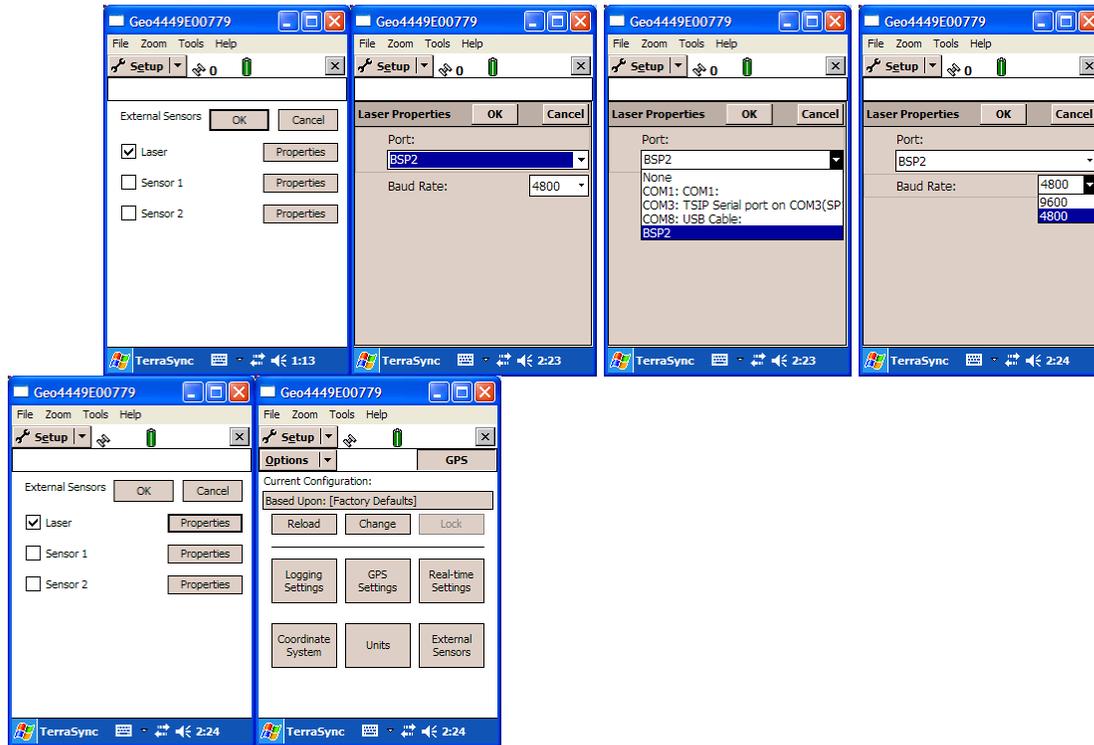
5. On the Serial Ports Tab, under the Client Serial Ports section, tap New... . Select the TruPulse by tapping on the name and tap Next. Under the Port drop down menu, choose BSP2 as the Port and tap Finish. Tap OK in the upper right corner to close the Bluetooth Connection routine.



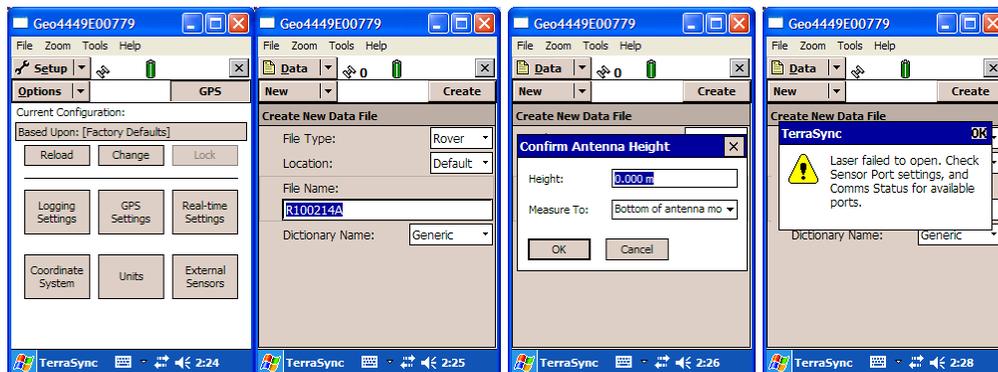
6. Tap the X in the upper right corner to close the Connections folder and Start the TerraSync software program. From the Status Drop down menu, choose the Setup Menu and select External Sensors button.



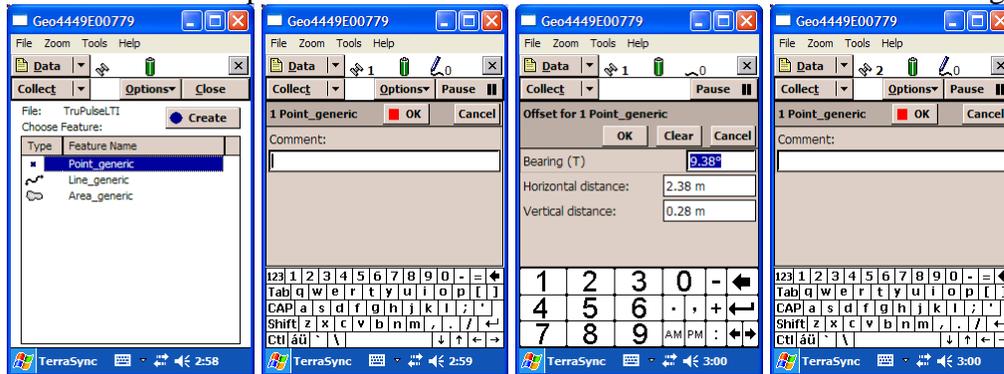
7. Tap Properties next to Laser and from the drop down menu of Port, set to BSP2 and the Baud Rate to 4800. Tap OK. Check the box to the left of Laser and tap OK.



8. Click on the Setup Drop Down Menu and select Data. Now one needs to create or open an existing file. Create a file by accepting the default File Name or entering a new one, then tap the Create button. Next enter the Height difference between the bottom of the GPS antenna and the laser sighting scope and hit OK.  
 \*Note: At this point TerraSync will want to connect to the TruPulse. If you get an error like the example below, go back to the Bluetooth Connections screen and make sure that Mode is Discoverable. You may also have to Bond with the laser again when opening a Data File and re-enter the PIN (1111). See 2 thru 4 above.



9. From the Data Collect Screen, one will choose a feature to collect, by a tap on Point\_generic and then tap the Create button. Add a comment for the feature being created. If a Range / Azimuth offset is desired, fire the TruPulse and the distance will automatically download and come through on the screen. The Bearing (T) value will fill in with a number, one will need to manually edit the known Bearing (T) value from another device and then tap OK. The TruPulse 200 does not have an Azimuth reading.



10. Do get a different Offset Method, from the Data Collect Screen, one will choose a feature to collect, by a tap on Point\_generic and then tap the Create button. Add a comment for the feature being created. Tap Options drop down menu, choose Offset. Know choose the Offset desired and select it from the list. Follow the instructions to perform the measurements.

**Offset Methods:**

Distance- Distance Offset Method: Preferred method when using Laser Technology, Inc. TruPulse 200 model. The TruPulse 200 model does NOT have an Azimuth/Compass solution built in.

From: Reference Manual of TerraSync software, Version 2.50 Revision A, April 2005.

A distance-distance offset uses the distance between the feature and two reference positions (A and B) to specify the feature's position. The feature lies at the point where the circles centered on A and B intersect. Because there are two points where the circles intersect, you need to specify which direction the feature is in, relative to the path from A to B.

