POLSTAR **Bluetooth GPS Receiver User Guide**

Before connecting PBT-111 to your Pocket PC:

1. Make sure that your Bluetooth package include Bluetooth GPS Receiver x 1 + Car Charger x 1+ Rechargeable battery x 3.

2. Before using, making sure your batteries have been charged at least for 8 hours.

3. Go to Polstar's website at www.polstargps.com to download GPS tester tool to your PC/laptop and then transfer to your PDA.

4. In order to link PDA and GPS together, install the connecting software first.

Connect PBT-111 to your Pocket PC.

1. Load 3 fully charged AAA NiMH batteries into PBT-111; make sure the batteries are loaded in their correct polarity (+ or -) of the terminals.

2. Turn the PBT-111 switch on. A Red LED glitters to signal the GPS function and another blue LED glitters to signal the Bluetooth function.

3. Secure your PBT-111 in a stable place under an unobstructed open sky. If you use PBT-111 in your vehicle, place PBT-111 on the dashboard with the front surface facing the sky.

4. To access Bluetooth communication between PBT-111 and Pocket PC, power on your Pocket PC first. After initializing, you will see the Bluetooth icon on the right down corner of your screen.

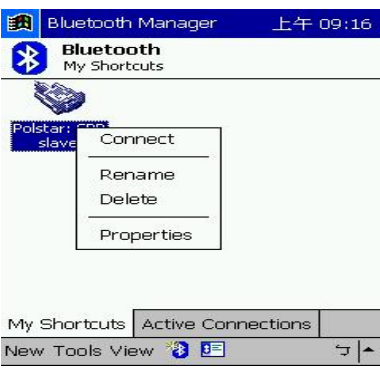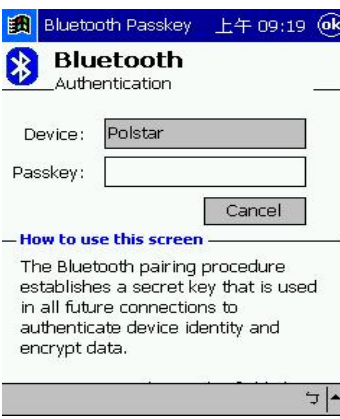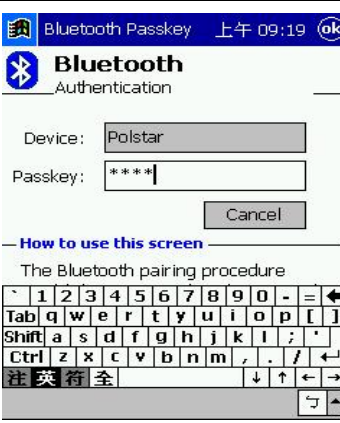5. 5.Tap the Bluetooth icon; select "Bluetooth Manager"

6. Note that the Bluetooth function should be on automatically when you initialize your Pocket PC.

7. In Bluetooth Manager "My Shortcuts" window, tap "New and then tap "connect" to find available Bluetooth devices and services.

8. In the Bluetooth Connection Wizard, select "Explore a Bluetooth device" then tap "Next".

9. Tap "Next" to continue Bluetooth Connection Wizard.

10. Await Pocket PC searching for Bluetooth devices. You will see POLSTAR in your Bluetooth Browser window. Tap the icon to continue.	Connection Wizard 下午 08:27 (ok) — Bluetooth Browser — Please select a device: — Polstar — View ✕	15. Now in the Bluetooth Manager menu, you will see the POLSTAR shortcut in the list. Tap the icon still and select the Connect option.	Bluetooth Manager 上午 09:16 — Bluetooth — My Shortcuts — Polstar: SPP slave — Connect / Rename / Delete / Properties — My Shortcuts / Active Connections — New Tools View
11. Waiting for Bluetooth device searching, you will see the POLSTAR icon appearing in the following list. Tap POLSTAR icon to continue.	Bluetooth Passkey 上午 09:19 (ok) — Bluetooth Authentication — Device: Polstar — Passkey: — Cancel — How to use this screen — The Bluetooth pairing procedure establishes a secret key that is used in all future connections to authenticate device identity and encrypt data.	16. Bluetooth connection is completed. Then notice that Bluetooth LED is steadily on right now. In the Active Connection window, you can check the Bluetooth connection is on or not.	Bluetooth Manager 上午 09:17 — Bluetooth — Active Connections — Outgoing Connections — Polstar SPP slave — Incoming Connections — My Shortcuts / Active Connections — New Tools
12. In "Bluetooth Device Pairing" window, enter Passkey "0000" and then tap "Enter".	Bluetooth Passkey 上午 09:19 (ok) — Bluetooth Authentication — Device: Polstar — Passkey: **** — Cancel — How to use this screen — The Bluetooth pairing procedure	17. Await TTFF simultaneously, the GPS status LED will be Red to indicate GPS position fixed. 18. PBT-111 will now automatically and continuously receive the satellite's GPS NMEA data and transfer to Pocket PC via Bluetooth for navigation application.	

13. Select Bluetooth available service "SPP" in the Service Selection menu, and tap "next" to continue.

Connection Wizard 上午 09:16 — Bluetooth Connection Wizard — Explore a Bluetooth device — Polstar — Service Selection — SPP slave — Please select the service(s) offered by this device you would like to create connection shortcuts for. — Security — ☐ Use a secure, encrypted connection — ✕ Cancel ◀ Back Next ▶

14. Now you successfully create Bluetooth Connection shortcut. Tap "Finish" to close the Connection Wizard program.

Connection Wizard 上午 09:16 — Bluetooth Connection Wizard — Explore a Bluetooth device — Polstar — Shortcuts created — Connection shortcut(s) for the service(s) you selected were successfully created. — To connect: From the Bluetooth Manager "My Connections" screen, double-tap the connection. Or tap-and-hold the connection icon and select 'Connect' from the menu. — Finish ➦

PBT-111 Troubleshooting		
Problem	Diagnosis	Solution
・Power failure	・Batteries are run out of electricity ・Batteries are not loaded in correct polarity ・Batteries are not matched	・Check the power source installation ・Reconfirm the power source is normally applied ・Check the batteries can be functioned or not ・Do not mix different types of batteries together
・Module has no data output	・Power failure ・Bluetooth connection fail ・Baud rate is incorrect ・Antenna is obstructively functioned	・Refer to the solution of power failure ・Fix the baud rate at 4800bps ・Make the antenna placed in a full view of the sky
・GPS data is not in correct order ・Module takes a longer time to start	・Module is in cold start mode	・Under cold start mode, the module is to be initialized for 50 seconds ・Longer TTFF results from necessary accumulation of GPS data from each satellite or obstruction of the sky view
・Pocket PC cannot find PBT-111	・Pocket PC Bluetooth function is not open ・PBT-111 is not powered ・PBT-111 is in low Battery Mode ・Bluetooth connection is busy	・Make sure the Pocket PC Bluetooth function is on ・Replace the old batteries or recharge the batteries ・Reconnect Pocket PC and PBT-111 once again ・Reset both Pocket PC and PBT-111 and reconnect again

Warnings and Precautions

Warning: If the product has been stored for a few weeks and the displayed date is incorrect, or you have traveled a long distance (greater than 500 miles) from where the unit was last used or you use the unit first time in the poor satellite visibility, the unit may be looking for the wrong group of satellites, so there will be no satellites or too few satellites received for several minutes. You have to wait for 10 more minutes until the unit forced to cold start search, or you can down load PDA Tester from our website to send cold start command at the power-up.

Warning: This product does not contain any user serviceable parts. Repairs should only be made by an authorized Polstar service center. Unauthorized repairs or modifications could result in permanent damage to the unit, and void your warranty.

Warning: Use this product at your own risk. This product is designed to be used only as a navigational aid and must not used as sole means navigator for aircraft or for any purpose requiring precise measurement of location, direction or distance.

Warning: The Global Positioning System (GPS) is operated by the United States government, which is solely responsible for its accuracy and maintenance. The system is subjected to changes which could affect the accuracy and performance of all GPS equipment. The specifications of the product can be misinterpreted and become unsafe.

Warning: If this product is used in combination with third parties' mapping software installed on a PDA, it is very important that you understand the operation of your PDA prior to using this product. Please notice that all the mapping data may be virtually inaccurate or may be incompatible with your PDA, which might cause error or malfunctions. Please consult your navigation software or PDA vendor first to resolve the problem before returning this product to Polstar.

Warning: When use this product in vehicles, it's the sole responsibility of the driver to install this product and/or PDA to a secure place so that it will not interfere with vehicle operating controls and safety device, obstruct the driver's view, or cause personal injury in an event of an accident. It is also the sole responsibility of the driver to operate the vehicle in a safe manner. Do not operate PDA while you are driving.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.   End users must follow the specific operating instructions for satisfying RF exposure compliance.   This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.Notice: Any changes or modification not expressly approved by the party responsible could void the user's authority to operate the device.