POWER

- Use the power switch to turn the receiver on and off.
- The removable battery provides 10 hours of power.
- The battery takes approximately 2 ½ hours to charge fully.
- You can charge the battery using the universal wall power supply or the vehicle power adaptor.
- You can use the receiver while it is charging.

Power switch
LED indicators
Power jack

RECEIVER LED DISPLAY

LED	LED status	Receiver status
Bluetooth	Blue	Flashing every 1 second	On and waiting to connect
		Flashing every 2 seconds	Connected with field computer
GPS	Green	Solid	On and searching for satellites
		Flashing	Generating position fixes
Power	Red	Solid	Battery level is low (2.5% or less)
	Orange	Solid	Battery is charging (LED turns off when battery is fully charged)
During normal operation, the Power LED is not lit			

SAFETY INFORMATION

Note: For full safety information, please refer to the GPS Pathfinder XB Receiver Legal Notices

⚠ **WARNING - RECHARGEABLE LITHIUM-ION BATTERY**

- Do not damage the rechargeable Lithium-ion battery. A damaged battery can cause an explosion or fire, and can result in personal injury and/or property damage. To prevent injury or damage:
  - Do not use or charge the battery if it appears to be damaged. Signs of damage include, but are not limited to, discoloration, warping, leaking battery fluid.
  - Do not expose the battery to fire, high temperature, or direct sunlight.
  - Do not immerse the battery in water.
  - Do not use or store the battery inside a vehicle during hot weather.
  - Do not drop or puncture the battery.
  - Do not open the battery or short-circuit its contacts.
- Avoid contact with the rechargeable Lithium-ion battery if it appears to be leaking. Battery fluid is corrosive, and contact with it can result in personal injury and/or property damage. To prevent injury or damage:
  - If the battery leaks, avoid contact with the battery fluid.
  - If battery fluid gets into your eyes, immediately rinse your eyes with clean water and seek medical attention. Do not rub your eyes!
  - If battery fluid gets onto your skin or clothing, immediately use clean water to wash off the battery fluid.
- Charge and use the rechargeable Lithium-ion battery only in strict accordance with the instructions. Charging or using the battery in unauthorized equipment can cause an explosion or fire, and can result in personal injury and/or equipment damage. To prevent injury or damage:
  - Do not charge or use the battery if it appears to be damaged or leaking.
  - Charge the Lithium-ion battery only in a Trimble product that is specified to charge it. Be sure to follow all instructions that are provided with the battery charger.
  - Discontinue charging a battery that gives off extreme heat or a burning odor.
- Use the battery only for its intended use and according to the instructions in the product documentation.

⚠ **WARNING— AC ADAPTOR**

To use an AC adaptor safely:
- Use only an AC adaptor that is intended for the GPS Pathfinder XB receiver. Using any other external power source can damage the product and may void the warranty.
- Make certain that the input voltage on the adaptor matches the voltage in your location.
- Make certain that the adaptor has prongs compatible with your outlets.
- AC adaptors are designed for indoor use only. Avoid using the AC adaptor in wet or outdoor areas.
- Unplug the AC adaptor from power when not in use.
- Do not short the output connector.

◆ **Trimble.**

GPS Pathfinder® XB receiver

GETTING STARTED GUIDE

The Trimble® GPS Pathfinder® XB receiver is a small, lightweight, and portable GPS receiver for use with any field computer that has Bluetooth® wireless technology.

The high–sensitivity receiver tracks GPS even in difficult environments, and provides accurate positioning with real-time (SBAS) or postprocessed differential correction.

With its low profile and wireless connectivity, the GPS Pathfinder XB receiver is the ultimate in mobility and flexibility.

You can use the GPS Pathfinder XB receiver with the following software:
- Trimble TerraSync™ software or the Trimble GPScorrect™ extension for ESRI ArcPad software, for productive GIS data collection and maintenance.
- Trimble GPS Pathfinder Office software, for planning your field sessions and for powerful GPS data processing.
- Trimble GPS Analyst™ extension for ESRI ArcGIS software, for working with GPS data directly inside the ESRI ArcGIS Desktop software.
- GPS Pathfinder Tools Software Development Kit (SDK), for integrating GPS data and adding value to an existing mapping and GIS software package.
- Trimble GPS Controller software, for configuring real-time (SBAS) options and NMEA output settings. You can download the latest version of the GPS Controller software from the Trimble Technical Support website (www.trimble.com/support.shtml).
- Other GPS field software that accepts NMEA messages.

FIELD COMPUTER WITH CONTROLLING SOFTWARE

The GPS Pathfinder XB receiver uses the Bluetooth Serial Port Profile to connect to a field computer that has Bluetooth wireless technology. To operate the receiver, you can use GPS field software on a range of computers, including a Pocket PC running Microsoft® Windows Mobile® software, a laptop, or a Tablet PC.

Note: For real-time differential correction, select the integrated SBAS (WAAS/EGNOS) option in the Real-time Settings area of the GPS Controller software or your GPS field software.

OUTPUTTING NMEA DATA

Your GPS Pathfinder XB receiver is ready to use with any GPS field software that accepts NMEA messages. You can use the GPS Controller software to configure the NMEA message output settings.

Note: If you connect to the receiver using the GPS Controller software, make sure the NMEA Output field is set to On in the GPS Settings form when you exit the software.

Note: If you connect to the receiver using other Trimble GPS field software, NMEA output is switched off. If you need to re-enable NMEA output, use the GPS Controller software.

CHARGING THE INTERNAL BATTERY

Note: Charge the battery before using it for the first time.

The receiver contains an internal, rechargeable Lithium-ion battery. Charge the battery in the receiver, using the universal wall power supply or the vehicle power adaptor. You can use the receiver while it is charging.
• When the battery is charging, the Power LED is orange.
• When the battery is charged, the Power LED is off.

CONNECTING OVER BLUETOOTH

1. Turn on the GPS Pathfinder XB receiver.
2. On the field computer, ensure that Bluetooth is enabled.
3. Start a scan for nearby devices. The field computer displays a list of those that are available. The GPS Pathfinder XB receiver appears in the list as "BTGPS."
4. Select BTGPS

Note: If more than one GPS Pathfinder XB receiver is turned on and within range, it also appears in the list of devices as "BTGPS". To ensure you form the Bluetooth link to the correct receiver, turn off the other receiver, scan for nearby devices, and then form the Bluetooth link again.

5. If the field computer prompts you for a Bluetooth passkey or PIN code, enter "0183". This is the passkey for the GPS Pathfinder XB receiver.
6. In your GPS field software, select the COM port assigned to the Bluetooth connection on the field computer. Once a Bluetooth connection has formed, the Bluetooth LED changes from flashing once every second to flashing once every two seconds.

For more information, refer to the documentation for your GPS field software.

TROUBLESHOOTING

Problem	Solution
The GPS receiver does not turn on.	Check that the battery is charged.
	Check that the battery has been inserted correctly. Check that the contacts on the battery and receiver are aligned.
The GPS receiver is on, but is not communicating with the field computer.	Ensure that the Bluetooth link from the field computer has formed correctly.
	Check that another field computer is not connected to the receiver. The Bluetooth LED flashes once every two seconds when it is connected to a field computer.
	Turn off the receiver and the Bluetooth radio on the field computer, and then turn them on again. Then form the Bluetooth link again.
The GPS receiver is not outputting any positions, or is not outputting positions every second.	Make sure the GPS receiver has a clear view of the sky.
	If NMEA data is required, use the GPS Controller software to enable NMEA output and configure the NMEA message output settings. Check that your GPS field software is correctly configured to receive NMEA data.
	Use either the GPS Controller software, or other GPS field software, to reset the receiver.
The GPS receiver is not tracking an SBAS satellite.	Make sure you are within the area covered by the SBAS reference station network.
	Use the GPS Controller software, or other GPS field software, to configure Integrated SBAS as the real-time correction source.
Not all of the required NMEA messages are being output.	Use the GPS Controller software to configure which NMEA messages are output.
The accuracy of the recorded GPS positions is poorer than expected.	You may be operating in an area of high multipath or electrical interference. Move to an area with fewer obstructions, or move away from power lines and cellular phone base stations, and use offsets to collect data.
	Use real-time or postprocessed differential GPS.
More than one GPS receiver appears in the list of available devices.	Turn off the other GPS receiver, scan for nearby devices, and then form the Bluetooth link again.
The Bluetooth LED is off or is solid when the receiver is on.	Turn off the receiver, then turn it back on. Then form the Bluetooth link again.

For more information, go to the Trimble Technical Support website (www.trimble.com/support.shtml) or contact your Support Provider.