

## Preparing your Trimble GeoExplorer CE Series GPS unit (GeoXM) for use

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Before using your GeoXM in the field, there are a number of steps you should take to make sure it is up-to-date.

Connect to the unit using Microsoft ActiveSync:

- If you don't already have it, download the latest version of ActiveSync from the Microsoft website at <http://www.microsoft.com> and click Downloads and then choose ActiveSync. Browse to the latest version and follow the instructions to download and install (you may need to be logged in as Administrator).
- Connect the GPS cradle to a USB port on the computer and place the GPS unit in the cradle. ActiveSync should launch. Choose to not set up a partnership (instead, create a guest relationship). When I have had problems getting ActiveSync to recognize the unit, sometimes you can just remove the unit from the cradle for a couple of minutes and then replace it. Other times you may need to reboot the desktop computer. Read the GPS unit's manual to see if there are settings that you can change to get it to connect. In rare instances you may need to do a hard reboot of the GeoXM (you may lose all your data if you do this!). Hold down the power button for a long time until it reboots.

Update the operating system and GPS firmware (if necessary):

- Download the latest OS files from the Trimble website at [http://www.trimble.com/geoxm\\_ts.asp](http://www.trimble.com/geoxm_ts.asp) - click Downloads and choose the appropriate update file – either 1.10.x if you have an older unit, or 2.x.x if you have a newer unit (read the text on that webpage to decide – the newer version requires a code number). If you have a really new unit, the number may be even higher. These downloads should also include a GPS firmware update (currently to version 1.04). You can check your current OS and GPS firmware versions by going to Start—Settings—System tab--System Information or Start—Settings--Control Panel--System (you may need to connect to the GPS receiver to see the GPS firmware version – you can do this using the GPS Controller software if necessary). If your version is newer than the newest versions available on the website, you don't need to update.
- With the GeoXM connected through ActiveSync, double-click the file you downloaded to install the updates. **WARNING: THIS WILL DELETE EVERYTHING ON YOUR GeoXM!** Make sure you back up any files you want to keep.

Install and update ArcPad:

- Insert your ArcPad 6 installation CD and install it per the instructions. You will need to first install it on your desktop and then use the new program group items to install it onto your GeoXM via an ActiveSync connection. Refer to the ArcPad installation guide for more information. Instead of installing it to the default directory, install it to the CE unit's Disk. Make sure you enter your registration number as mentioned in the installation guide. You probably only need to install the Application For Windows CE, not the Font and Sample Data. If ArcPad gives you an error message when you run it, you may need to install the VBScript Runtime Library.
- Download and install any patches available at <http://www.esri.com/arcpad> (click on Support to find the patches).
- If you have ArcView 3.x or ArcGIS 8 or 9 installed on your desktop computer, you may wish to install the ArcPad tools within these applications. See the ArcPad installation guide for details.

Install and update GPSCorrect on your GeoXM:

- Insert the GPSCorrect CD into your desktop PC's drive and install the software onto the Windows CE device (GeoXM). Again, install the application on the Disk instead of the default location.
- At the end of the installation process, choose to download and install the updates from the Trimble website. If the installation process doesn't ask you to download and install updates, reinsert the CD and run that option. At the time of writing, the latest version is 1.01. The update that seemed to work was GPSCorrect V1.01 HPC2000 (ARM) [?] OR PocketPC 2003 [ARM] for newer units [?]. This update is important! Depending on the age of your GPSCorrect CD, you may not need to update (at the time of this writing, CDs with v1.01 seemed to work fine and didn't need to be updated).

We did not buy Trimble's TerraSync software. If you did buy it, you should install and update it.

At this point, your GeoXM should be ready to use in the field. First see the document that describes how to set your ArcPad and GPSCorrect settings. Then see the how-to document for instructions on loading local background data and using the unit.

Make sure you try running ArcPad before leaving the office – you'll need to enter the registration code the first time you run it.