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January 22, 2009

NEW MEXICO BULLETIN NO. 270-9-01

SUBJECT: IRM - GARMIN GPS MAP76 - FIRMWARE UPGRADE VERSION 4.00

TO: All Offices

Purpose. To provide information on the firmware upgrade for Garmin GPS Map76.

Expiration Date. December 31, 2009

Recently, a number of users have reported Garmin GPS Map76 receiver lock-ups resulting in a single vertical black line on the screen when in WAAS (Wide Area Augmentation Service) mode. The problem arises due to the recent WAAS system upgrade and changes to the GPS constellation. Many of the GPS Map76 receivers have not received the firmware update required by the WAAS system upgrade. Therefore, we are recommending that all receivers be updated to the latest firmware at your earliest opportunity. The new firmware specifically allows the receiver to optimize use of the WAAS as a differential correction service.

The firmware upgrade consists of a self-extracting zipped file. The files should not require administrative rights to install. The GPS user can install the firmware upgrade as a regular user. It will also require the Garmin Map76 receiver and a Garmin/PC interface cable. The following installation instructions are from the Garmin website. Users should complete the upgrade themselves. If users cannot install the firmware upgrade you may need to have ITS do this as an administrator. Garmin also recommends that the WAAS signal reception be turned on.

- To turn on the WAAS signal reception. This will cause increased location accuracy when the WAAS signal is available.
  1. Access the "Main Menu"
  2. Select "Setup"
  3. Select "Enabled" under the WAAS heading
  
- Firmware Installation Instructions
  1. It is recommended that you disable screen savers or other programs running on your PC while you go through the update process. Disruptions to the update process may render your GPS inoperable. If the transfer is interrupted, turn off the GPS and then turn it back

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on. Reboot your PC; go to step #9 and attempt the download again. GARMIN is not responsible for failed downloads of operating software to the GPS and factory resetting the GPS unit will fall under Garmin's Flat Rate Repair Policy.

2. The Map76 Ver. 4.00 firmware is available at:  
[http://www8.garmin.com/support/download\\_details.jsp?id=153](http://www8.garmin.com/support/download_details.jsp?id=153)  
Click on "Download" and choose to save the file to your computer.
3. Choose a location where you can easily locate the file by saving it to a location such as C:\temp.
4. Once the download is complete, go to the location where you saved the file.
5. Locate the downloaded file and double-click on it (GPSMAP76\_400.exe). This will launch the WinZip Self Extractor. This program compresses the data to allow for a faster download of the needed files.
6. A program window will appear asking you where to "Unzip" the files. This is by default C:\Garmin. You can change this location if you like. Be sure to note where the unzipped files are going to allow you to find them!
7. Click on the button labeled "Unzip".
8. Once the unzip process is complete, click on the "Close" button to exit the WinZip Self Extractor.
9. Open the C:\Garmin (or other folder where you unzipped the files), locate the file named "Updater.exe" and double click on it.
10. Connect your GPS to your computer using a GARMIN/PC Interface cable to an open serial port. Turn the GPS on, place it in Simulator mode (press the "Menu" button, select "Start Simulator") and verify that the Interface Mode (press "Menu" button again to access the "Main Menu", select "Setup", select the "Interface" tab) is set to GARMIN.
11. Click on the "OK" button on the Updater program window to start the data transfer.

This firmware upgrade is for the Garmin GPS Map76 **ONLY**. If there are other GPS receivers being used and you would like to update the firmware on them, please go to the following link, select the type of Garmin GPS receiver you have and follow the instructions to upgrade the firmware. <http://www8.garmin.com/support/blosp.jsp>

If you have any questions, please contact Linda Branch.



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