# SPECTRA PRECISION®

## PRODUCT BULLETIN

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## Spectra Precision EPOCH 35 GNSS System

This document outlines the basic procedures for updating EPOCH 35 MPU firmware. This document covers ONLY how to update the MPU firmware, which is separate from updating the GNSS firmware.

**Required:**
67410-xx EPOCH 35 receiver
54344-10 Battery (fully charged)
59046-10 Instrument cable
EPOCH 35 Service Software

**Procedure**

1) Download the Service Software for the appropriate version from the Spectra Partners site or the Spectra Precision web site.
2) Install the Service Software by running the msi file.
   a. The new MPU firmware is included in the install
3) Prepare the EPOCH 35
   a. Insert the battery
   b. Plug the instrument cable 7-pin Lemo connector into COM port 1 of the EPOCH 35
   c. Plug the instrument cable 9-pin connecter into your computer
      i. NOTE: If you are using a laptop computer, it is best to not make the connection through a docking station
4) Update the Firmware
   a. Start the Service Software
      i. Click on Update
         1. The firmware update screen will be shown
      ii. Follow the instructions on the update screen
         1. Power off your receiver
         2. Connect a serial cable to COM1 on your receiver to your PC
         3. Hold down the up arrow and the down arrow button simultaneously and then press the power button
         4. Verify the display on the receiver shows "B"

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      a. Click Update to start the firmware loading process

      b. Note: The firmware loading process cannot be stopped once it is started. If the process is interrupted for any reason, restart the procedure starting at step 3.

    iii. The receivers MPU firmware will be erased and then the new firmware will be loaded

5) Reset the EPOCH 35

   a. Once the firmware loading process is done

     i. Open the battery door and remove the battery

     ii. Replace the battery and power the EPOCH 35 on

     iii. The receiver will show several messages while it finishes the firmware updating process

       1. You must wait until this procedure is finished. If the receiver is powered off during this sequence for any reason, it will start the sequence again the next time the receiver is turned on

     iv. When the procedure is done, the receiver will automatically power off

   b. The receiver is now ready to use with its new firmware