

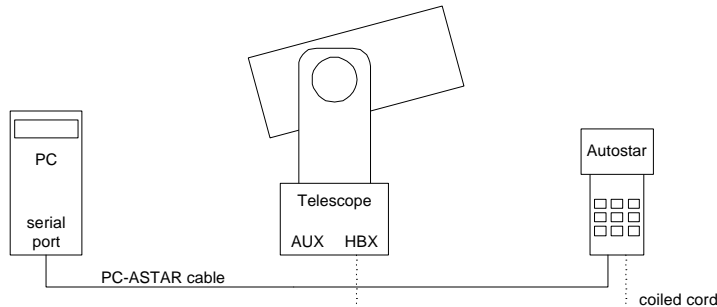
StarGPS Handheld Quick Start Instructions

IMPORTANT: your Registration Key is printed on the StarPatch CD sleeve.

For more details and troubleshooting information see www.stargps.ca/manual.htm

First, you must update your Autostar so it can understand GPS data:

- 1) Insert the StarPatch CD to install and run the program.
- 2) If desired, use the "Options: Language" menu (default is English).
- 3) Use the "File: Get Updates..." menu to download the latest Autostar software.
- 4) Connect your PC to the Autostar using the PC-ASTAR cable:



- 5) Turn the telescope on and wait until the Autostar is ready (you will hear a beep).
- 6) Use the "File: Register..." menu to enter the registration key from the CD sleeve.
- 7) Use the Autostar "Setup" menu to select "Download" and then press the ENTER key (this step is only necessary if your Autostar shows version [22E] or older).
- 8) Press the "Update Autostar" button to begin the update process.
- 9) Follow the on-screen instructions and wait for the update to complete.

NOTE: When you next use your telescope you should do a Setup > RESET to guarantee proper initialization of the Autostar. You'll have to re-enter your City, re-CALIBRATE and re-TRAIN for best operation. If you are not familiar with this process you can learn more by visiting http://www.weasner.com/etx/techtips/etx_tuneup2.html

Second, follow these steps to attach and use your GPS receiver:

- 1) Turn your GPS receiver on and configure it to output NMEA \$GPRMC and \$GPGSV data at a rate of 4800 or 9600 baud with no parity, 8 data bits and 1 stop bit.
Refer to your GPS User s Manual to configure the NMEA output settings.
WARNING: If your GPS receiver is not configured properly it may output data that switches the Autostar into download mode - if this happens you will need to reprogram the Autostar using StarPatch.
- 2) Turn off your GPS receiver (it is now configured for future use).
- 3) Make sure the telescope is turned off.
- 4) Connect your GPS receiver to the Autostar using the supplied cable.
- 5) Turn on your GPS receiver.
- 6) Turn on the telescope and the "Welcome to AUTOSTAR" message will be followed by "Checking for GPS>" (see screen shots at www.stargps.ca/manual.htm#gps).
- 7) The Autostar will display GPS data and will beep once it obtains a valid fix.
- 8) Turn off your GPS receiver and unplug it from the Autostar.
- 9) Press the ENTER key to proceed as usual from the "Align:" prompt.

NOTE:

Most handheld GPS receivers do not output \$GPRMC data until they obtain a valid fix. In this case the Autostar will display "00:00:00 UTC" until a valid fix is obtained.

PDF versions of the Garmin and Magellan GPS manuals can be found under product support at www.garmin.com and www.magellangps.com. These may refer to \$GPRMC as RMC and to \$GPGSV as GSV.