# StarGPS-LX Quick Start Instructions

**General Information:**

1) The GPS receiver LED will glow steady when you turn on the telescope.
2) The LED will blink once per second (½ second on, ½ second off) once the GPS has determined the time, date, latitude and longitude. This may not work indoors and normally takes about 45 seconds outdoors. Step 3 follows within 5 seconds.
3) The LED will flash once every 2 seconds to indicate that the telescope has accepted the GPS settings. At this point you can unplug the GPS and proceed.
4) The local time zone is set to UTC (Coordinated Universal Time).
5) Daylight savings must be turned off (if available).

**For use with LX200 classic:**

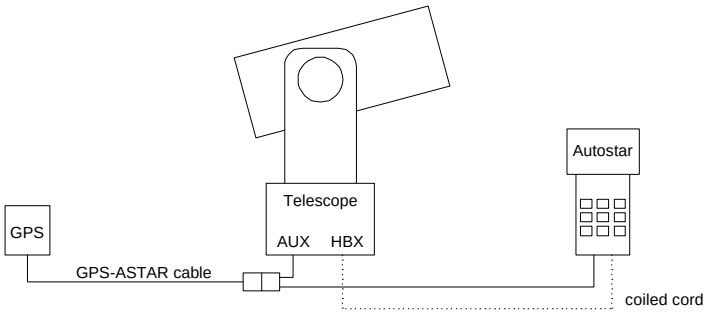
1) Make sure the telescope is turned off.
2) Connect the GPS receiver to the supplied cable (you can leave these connected).
3) Plug the other end of the cable into the RS232 port on the LX200 control panel.
4) Turn on the telescope.
5) Wait until the GPS LED flashes once every 2 seconds.
6) Unplug the GPS cable from the RS232 port.
7) Proceed with setup/alignment as usual.

**For use with LX200GPS:**

1) Turn the telescope on.
2) Disable the internal GPS (select Setup> Telescope> GPS Alignment> NO).
3) Make sure the telescope is turned off.
4) Connect the GPS receiver to the supplied cable (you can leave these connected).
5) Plug the other end of the cable into the RS232 port on the LX200 control panel.
6) Turn on the telescope and use the Autostar keypad to skip ahead to the "Daylight Savings" prompt. Steps 5 and 6 must be completed within 30 seconds.
7) Select NO and press ENTER three times (to position to the "Align:" prompt).
8) Wait until the GPS LED flashes once every 2 seconds.
9) Unplug the GPS cable from the RS232 port.
10) Proceed as usual from the "Align:" prompt.

**For use with 495/497 Autostar (ETX/LXD/LX90):**

1) Make sure the telescope is turned off.
2) Connect the GPS receiver to the Autostar and telescope using the supplied cable (the short lead plugs into an AUX port on the telescope to supply power to the GPS). The long lead connects to the Autostar and can be routed up the center of the coiled handset cable (it takes a few minutes to wind the coil around the long lead).
   **WARNING: DO NOT REVERSE THE CABLE CONNECTIONS** since this can cause damage to the telescope or Autostar.




3) Turn on the telescope. Steps 4-6 must be completed within 30 seconds.
4) If you are asked to "Press 0 to Align or MODE for Menu" then press the MODE key.
5) Use the Autostar keypad to skip ahead to the "Daylight Savings" prompt.
6) Select NO and press ENTER (you will be positioned at the "Align:" prompt).
7) Wait until the GPS LED flashes once every 2 seconds.
8) Unplug the cable from the AUX port and RS232 port. If you routed the long cable up the center of the handset cord, you can leave it connected to the RS232 port.
9) Press the ENTER key to proceed as usual from the "Align:" prompt.

**For use with Losmandy Gemini:**

1) The Gemini Daylight Savings setting is not relevant.
2) Make sure the Gemini is turned off.
3) Connect the GPS receiver to the supplied cable (you can leave these connected).
4) Plug one end of the cable into the Gemini RS232 port.
5) Plug the other end of the cable into the Gemini power output.
6) The GPS LED should turn on at this point.
7) Turn on the Gemini.
8) Wait until the GPS LED flashes once every 2 seconds**.**
9) Select "Cold Start" if your observing location has moved by more than 500 km, if you changed the internal battery or did a "Reset Default".
10) Unplug the supplied cable from the power output and RS232 port.
11) Proceed with setup/alignment as usual.