INSTRUCTIONS FOR PROGRAMMING THE SAPLING GPS RECEIVER

The Sapling GPS receiver allows for perfect synchronization of clock systems by receiving signals from the US Global Positioning System. The GPS receiver consists of two components; an external antenna, and an internal display/programming unit.
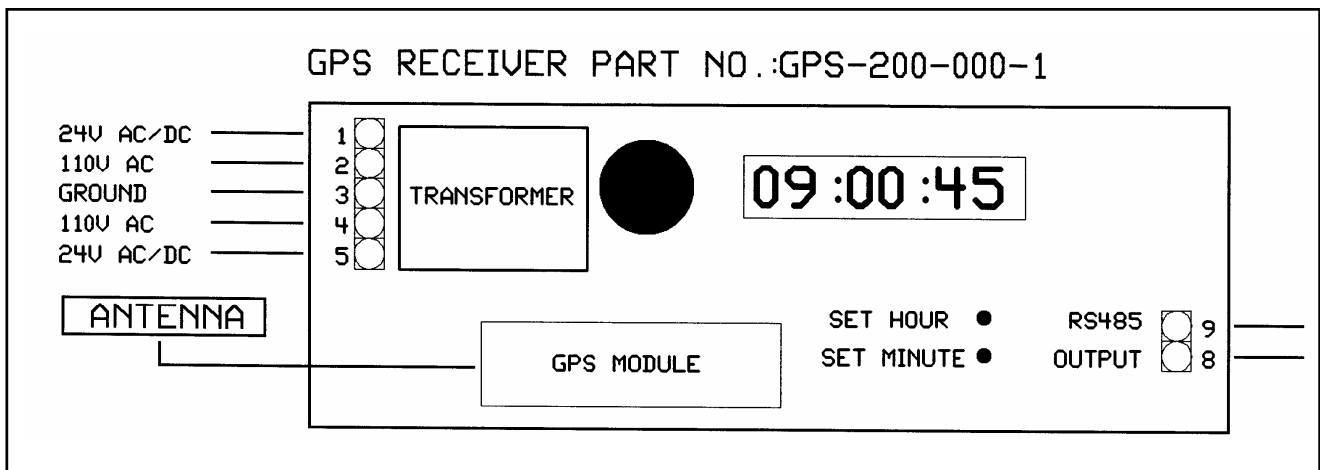
The GPS receiver has two buttons for programming. The top button, when pushed alone, allows you to set the hour (in 24-hour mode, from 00 – 23). The bottom button allows you to set the minutes (from 00-59). Time in seconds will be received directly from the GPS signal.

NOTE: If the seconds digits of the LED display are flashing, it means there is NO signal being received from the antenna. Upon startup, this almost always occurs for about 2-3 minutes before the antenna gets a lock on the signal. Once the signal is received, the seconds digits will appear solid.

When both buttons are pressed together, the receiver enters programming mode.

The GPS receiver will not receive the hour from the satellite. The hour must be set manually at the time of installation.

GPS RECEIVER – WIRING DIAGRAM

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When both THE "SET HOUR" and "SET MINUTE" buttons are pressed together, the receiver enters programming mode.

Once in programming mode, you will see numeric prompts on the screen, from 1 – 7, each allowing you to program different information into your clock system.

Use the bottom button to scroll through the various options for each numeric prompt, and then use the top button to move to the next programming option.

When you press both buttons together, you will see the first numeric prompt:
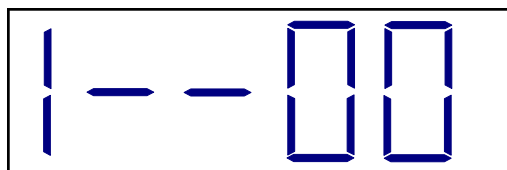
Once programming mode has been entered, the number "1" will appear in the far left position (see diagram). This prompt allows you to set the year. Use the bottom button to scroll from 00-99 on the display , and set the **correct year** (ex. 01).
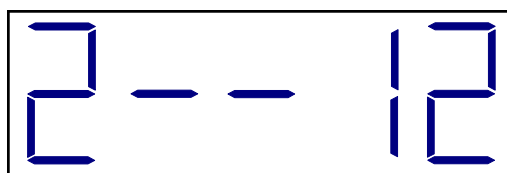
Pressing the top button will move you to prompt number 2, and a "2" will appear in the far left position of the display. Use the bottom button to scroll through the months, and set the **correct month** (01-12).
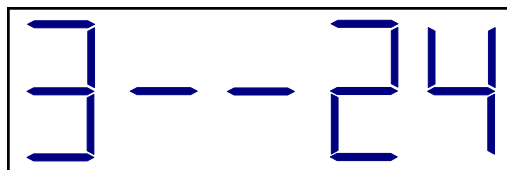
Pressing the top button will move you to prompt number 3, and a "3" will appear in the far left position. Use the bottom button to **set the date** (01-31).
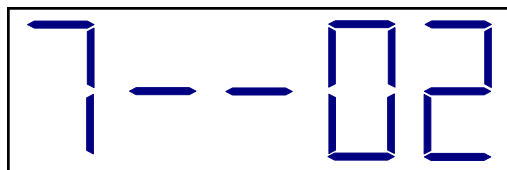
Prompt 7 allows you to change the **transmission rate** – how often the GPS receiver transmits data to the clock system. Use the bottom button to scroll through the 12 options available to you, as follows:

01 – data transmitted every second
02 – data transmitted once every 5 seconds
03 – data transmitted once every 10 seconds
04 – data transmitted once every 15 seconds
05 – data transmitted once every 30 seconds
06 – data transmitted once a minute
07 – data transmitted once every 2 minutes

08 – data transmitted once every 5 minutes
09 – data transmitted once every 10 minutes
10 – data transmitted once every 15 minutes
11 – data transmitted once every 30 minutes
12 – data transmitted once an hour

Prompt 8 to changes the daylight saving options. Press the bottom minute button to scroll between "1" and "2". "1" is pre 2007 daylight savings and "2" is post 2007 daylight savings. When complete, press the hour button one more time to return to the real time.