

GPS System Anomalies

Cannot load gps software from **apt-get install gpsd gpsd-clients python-gps** . The `/lib/udev/gpsd.hotplug` file does not exist.

With the 2B a shell script is needed for the GPS receiver to work properly. The script is `gpssock.sh`. This file was placed in the `/etc/profile` or the `/etc/rc.local` files
The `gpssock.sh` file contains the following lines:

```
sudo systemctl stop gpsd.socket
sudo systemctl disable gpsd.socket
sudo gpsd /dev/ttyUSB0 -F /var/run/gpsd.sock
```

With the 2B the date and time were correct, but with the 2, the date was offset by -7186 days or back to 1997.

Another problem occurred where the GPS Receiver apparently stopped working. I installed the receiver on a PC and still could not get it to function. It was restored to full operation by following the procedure from this link:

<http://usglobalsat.com/forum/index.php?topic=4780.0>

The first auto start method used was `/etc/profile`. This worked with the Rasp 2, but with the 2B the audio files played twice causing an echo. Using `/etc/rc.local` works for the 2B. Both of these run the program in the background. Adding the file:
`/home/pi/.config/autostart/.desktop`

With **[Desktop Entry]**
 Type = Application
 Exec = lxterminal -e "sudo python /home/pi/gps_2017/gps340.py"

Runs the program in a Terminal on startup.