

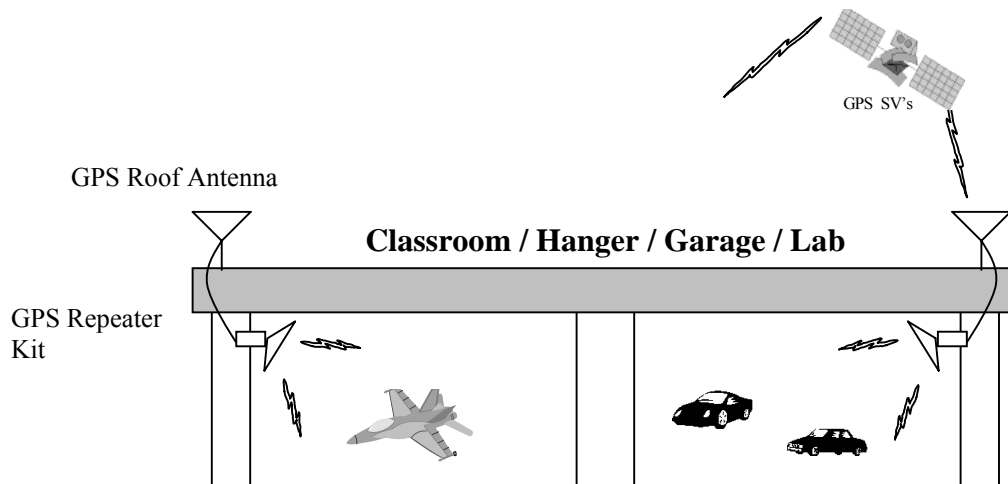


# Operation & Installation of the GPS Repeater Kit (GPSRK)

## How It Works:

The GPS Repeater kit (GPSRK) is comprised of a GPS Repeater Amplifier and a GPS Repeater Antenna mounted on a pedestal. You can use your existing Active GPS roof antenna and cable or purchase these as options to the GPSRK. The GPS signal is received by the roof top antenna and routed via a low loss cable to the GPSRK Amplifier Antenna assembly where it is repeated. ☺ It takes at least three satellites to derive a position and five SV's for position, time, and redundancy. An important thing to remember is that one satellite will keep your receivers Almanac and Ephemeral data current. Our GPS Repeater kits have a range of approximately 100 feet and operate line of sight. In some instances you may need multiple GPSRK's due to obstacles. With judicious placement the number of GPS repeater kits can and should be kept to a minimum.

☺ Note the GPSRK is intended for installation and use in areas where the GPS signal is not currently present. The position receivers generate will be the position of the receive or roof antenna and therefore is not used for location and/or navigation. The repeated GPS signal is used for system test, initialization, and product demonstration.



## Installation:

The GPS Repeater kit (GPSRK) installation is simple.

1. Mount the pedestal GPS Amplifier Antenna assembly in a corner 8 to 30 ft. high.
2. Connect the GPS cable from the GPS roof antenna.
3. Plug in the Amplifier Antenna assembly and you're repeating GPS.
4. Adjust and point the Repeater antenna across the room at the opposite wall or corner.
5. Adjust the pedestal angle for best reception in all areas of the room.