

R7/5700 GPS Receiver UNAVCO System

Standard system includes:

- R7/5700 receiver *
- Zephyr geodetic antenna *
- Transport case *
 - * Identified by system number.
- 10m TNC-TNC antenna cable
- Download/power cable
- North-American AC power cord
- AC power supply
- DC power cable – ruggedized, fused, and with ring terminals
- 128Mb (or greater) Industrial compact flashcard (in receiver)
- Copy of this list

Rx QC by:

Date:

Optional items in system box, per request only:

- Internal batteries
- 18Ah gel cell battery
- Battery charger
- Solar panel

2/28/08

Useful Information

LED Indicators:

	Logging/memory LED (yellow)	Satellite tracking LED (red)	Power LEDs (green=in use or yellow=standby)*
On	Data are being logged	Receiver in monitor mode	Healthy
5 sec flash while OFF	Session programmed in receiver	N/A	N/A
Slow (1 sec) flash	Enough Fast Static data have been logged (per preset criteria)	Tracking four or more satellites	N/A
Fast flash	Warning-low memory	Tracking three or less satellites	Low power
Off	Not logging data	Not tracking any satellites	No power source present

*External batteries override internal batteries.

The 5700 receiver is programmed at UNAVCO for automatic logging of 24 hour UTC files, 15 second sample rate, 5 degree elevation mask. To change the default settings, use the Configuration Toolbox (C-Tools) software available from facility.unavco.org. Programming the 5700 correctly is critical for collecting the desired data. The process is not trivial, and a well understood sequence must be followed to ensure proper data collection. The recommended sequence is:

1. Use C-Tools v4.0 or newer to get the power_up configuration file from the receiver. Earlier versions of C-Tools do not support Time Activation, which is necessary to program sessions.
2. Modify the file as desired.
3. Save the file to the computer.
4. Close (completely exit) C-Tools.
5. Perform a hard reset of the receiver and format the compact flashcard by holding the receiver power button down for 30 seconds.
CAUTION: Any data on the compact flashcard will be erased!
6. Open the saved configuration file in C-Tools.
7. Transmit the configuration file to the receiver.
8. Close C-Tools.
9. Test run the receiver to verify proper operation prior to actual fieldwork.

Current support information, including specific 5700 receiver documentation, is available on the UNAVCO web page: facility.unavco.org
Support questions? Email support@unavco.org