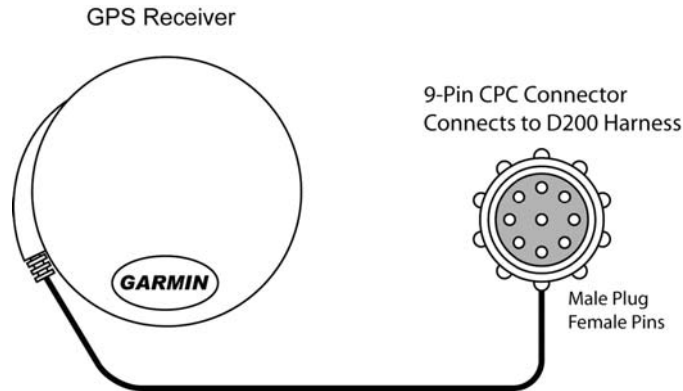


PCS 5Hz GPS User Guide

The GPS receiver is a Garmin 5Hz GPS with Wide Area Augmentation System (WAAS) capability. The fast update rate combined with WAAS allows a finer resolution of tracking than most other commercial automotive GPS systems. This finer resolution greatly enhances the track mapping accuracy. The receiver connects to the D200 harness using the 9-pin circular plastic connector. This harness is shown below.



The pinout for this harness is shown in the table below. Pins 6 through 9 are not connected in the GPS harness. The GPS harness colors listed below are for reference only. The colors of the individual wires can only be seen if the harness or connector is taken apart - which should only be performed at the instruction of PCS.

9-Pin CPC Pin	GPS Harness Color	D200 Pin	D200 Harness Color	Function
1	Red	26	Red/White	Power (+5V DC)
2	Black	27	Black/White	Ground
3	Green	12	Brown/Black	D200 Transmit, GPS Receive
4	White	13	Brown/Red	D200 Receive, GPS Transmit
5	Black	14	Brown/Blue	Serial Ground

Once the GPS is connected, it must be enabled on the D200. To enable the GPS from the D200 MainMenu, select **Communications** then **RS-232** then **GPS**. Select **Back** to save the settings.

The GPS has a dedicated monitor screen in the D200 to view all the available information from the GPS. To view this screen, select **More** then Select **View** from any monitor screen and select **Full Screen GPS**. To view data from the GPS on the other monitor screens, return to the Main Menu and select **Monitor Settings** then **Set Display Data** then **GPS** and select the desired data. Data that can be monitored on other monitor screens is: Vehicle Speed (VSS), Elevation (ELEV), Number of Satellites in View (SATS), True Heading (TRUE), and Magnetic Heading (MAG).

If you are going to Data Log from the GPS, select **Data Log Settings**, then **Sources**, then **Comm Inputs**. Touch the number associated with the GPS to change the logging rate. The GPS has two logging rates; 0x - indicates logging disabled, and 5x - indicates logged 5 times per second. Touch the desired logging rate and then select Done.

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