

Wiring Connections: VHF & GPS Installation

GPS to VHF Communication Only

VHF Radio	Wire Color	Function	Buss Bar or Switch Panel	Function	Wire Color	GPS
This connection data is for a Uniden 625	Red	+12v	+12 volt	+12v	Red	This connection data is for a Garmin 441S.
	Black	Ground	Ground	Ground	Black	
			Terminal Strip			
	Yellow	NMEA 0183 IN-	←	NMEA 0183 Out-	Black	
	White	NMEA 0183 IN+	←	NMEA 0183 Out+	Blue	

A **wiring guide** is available from the Coast Guard Navigation Center at the web link shown below. The document describes how popular GPS receivers and plotters can be properly interconnected to a VHF marine radio. It details exactly which colored wires need to be connected.

http://www.navcen.uscg.gov/pdf/marcomms/dsc/DSC_VHF_GPS_Install_Final.pdf

Wiring Connections: VHF & GPS Installation

Two Way Communication

VHF Radio	Wire Color	Function	Buss Bar or Switch Panel	Function	Wire Color	GPS	
This connection data is for a Uniden 625	Red	+12v	+12 volt	+12v	Red	This connection data is for a Garmin 441S.	
	Black	Ground	Ground	Ground	Black		
			Terminal Strip				
	Yellow	NMEA 0183 IN-	←	NMEA 0183 Out-	Black		
	White	NMEA 0183 IN+	←	NMEA 0183 Out+	Blue		
	Green	NMEA 0183 Out+	→	NMEA 0183 In+	Brown		
	Orange	NMEA 0183 Out-	→	NMEA 0183 In-	Black		

A **wiring guide** is available from the Coast Guard Navigation Center at the web link shown below. The document describes how popular GPS receivers and plotters can be properly interconnected to a VHF marine radio. It details exactly which colored wires need to be connected.

http://www.navcen.uscg.gov/pdf/marcomms/dsc/DSC_VHF_GPS_Install_Final.pdf

Wiring Connections: VHF & GPS Installation

Complete this table with the wire color information for your equipment

VHF Radio	Wire Color	Function	Buss Bar or Switch Panel	Function	Wire Color	GPS
	Red	+12v	+12 volt	+12v	Red	
	Black	Ground	Ground	Ground	Black	
			Terminal Strip			
		NMEA 0183 IN-	←	NMEA 0183 Out-		
		NMEA 0183 IN+	←	NMEA 0183 Out+		
		NMEA 0183 Out+	→	NMEA 0183 In+		
		NMEA 0183 Out-	→	NMEA 0183 In-		

A **wiring guide** is available from the Coast Guard Navigation Center at the web link shown below. The document describes how popular GPS receivers and plotters can be properly interconnected to a VHF marine radio. It details exactly which colored wires need to be connected.

http://www.navcen.uscg.gov/pdf/marcomms/dsc/DSC_VHF_GPS_Install_Final.pdf