Connecting a GPS to Your Icom M802 radio

On the front of the M802 Main Unit (not the Controller Head), there is a BNC connector that you can use to connect to your GPS.

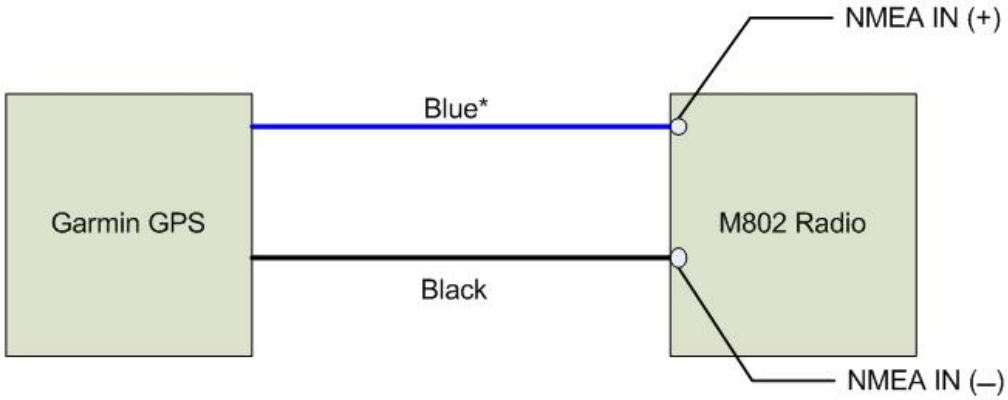
M802 Connections

Radio		*GPS*
NMEA in +	→	NMEA / Data out
NMEA in –	→	NMEA / Data ground

GPS Example Connections

You can solder the NMEA wires from your GPS to a male BNC connector. For more specific information, consult the individual instruction manual from the GPS manufacturer.

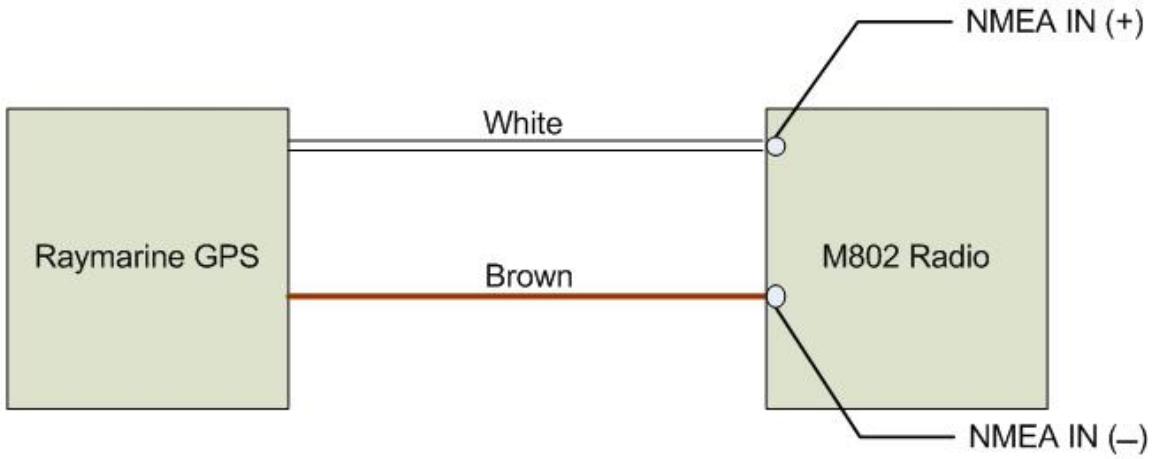
Garmin GPS



*Garmin models 172c, 182d, 152, and 178d can have blue *or* green connected to NMEA IN (+).

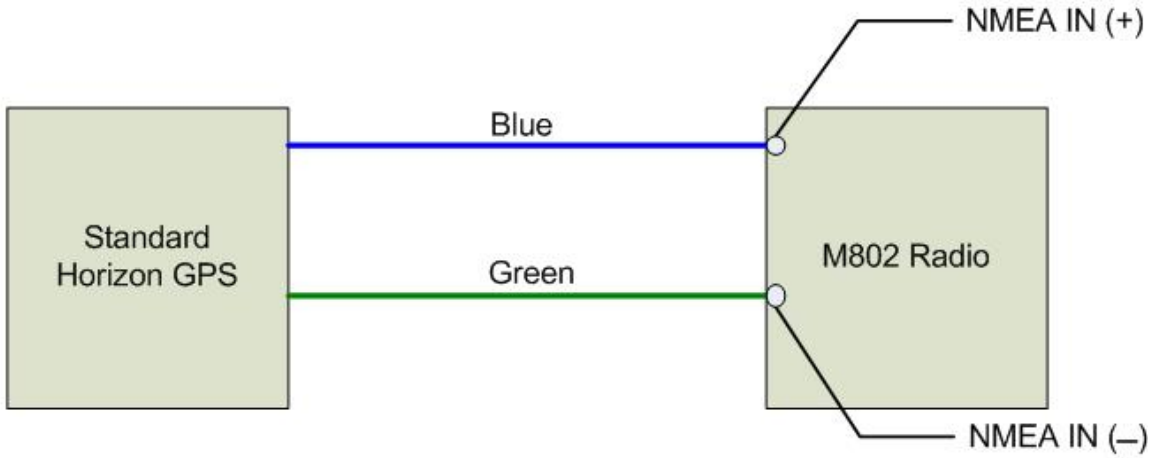
Raymarine GPS

Note: When using some Raymarine equipment you may need to connect your Icom radio directly to the Raymarine GPS itself, not through a repeated port from other equipment, such as a plotter. This ensures that the proper NMEA sentence passes to the radio.



Shows connections for Raymarine models 420, 320, and 425

Standard Horizon GPS



Shows connections for Standard Horizon models 155c/1000d and 175c

Troubleshooting Your GPS Connection

- Your Plotter/GPS receiver must be capable of sending the proper sentences (listed below) set for NMEA 0183 (Check your Plotter/GPS instructions for information.)
- Verify that the plotter/GPS device is sending GPRMC, GPGGA, or GPGLL sentences. (Check Plotter/GPS Instructions.)
- If you are still not receiving latitude and longitude, you can try setting the plotter to send one sentence at a time (if possible). This can help it find the most compatible sentence.
- Have a technician check the plotter/GPS using test equipment to verify it is sending the GPS sentence.
- Check the solder points on the radio and plotter connectors. Some connectors are very small, increasing the likelihood of solder bridging.