



Chartplotter Configuration Guide for Mercury Zeus and Axius Systems

This document describes the procedure to configure the following Garmin chartplotter series to work with Mercury Zeus and Axius systems:

- GPSMAP 400/500
- GPSMAP 600
- GPSMAP 700
- GPSMAP 4000/5000
- GPSMAP 6000/7000

Check Chartplotter Software

Before you can configure the chartplotter, you must verify that the chartplotter has the most current software.

Checking a GPSMAP 600 Series Device

1. Go to www.garmin.com/products/webupdater, and download WebUpdater to your computer.
2. Connect the GPSMAP 600 to your computer using the mini-USB cable.
3. Run WebUpdater, and follow the on-screen instructions.

After confirming that you want to perform an update, WebUpdater automatically downloads the update and installs it on your device.

Checking a GPSMAP 400/500, 700, 4000/5000, and 6000/7000 Series Device

1. Select **Home > Configure > System > System Information** to check the software version currently on your chartplotter.
2. Go to www.garmin.com/support/software/marine.html to find the latest software version available for your chartplotter.
3. Select an option:
 - For the GPSMAP 400/500 and 700 series, in the section called “Chartplotters with SD card”, click **Download**.
 - For the GPSMAP 4000/5000 and 6000/7000 series, in the section called “Garmin Marine Network with SD card”, click **Download**.
4. Select **I agree to the above terms and want to proceed to the download page**.
5. Scroll down the screen to find your chartplotter model and the available software version.

If the software version is a higher number than the number recorded from your chartplotter, follow the installation instructions at the bottom of the software update page to update the software on your chartplotter.

NMEA 0183 Port Types

Before you can connect the chartplotter to a Mercury Zeus or Axius system, you must configure the NMEA 0183 port types on your chartplotter.

Configuring a GPSMAP 600 Series Device

You must set all NMEA 0183 port types to **NMEA Standard**.

1. Select **Home > Configure > Communications > NMEA Port 1**.

2. Select **NMEA Standard > NMEA Port 2 > NMEA Standard**.

Configuring a GPSMAP 400/500 or 700 Series Device

You must set all NMEA 0183 port types to **NMEA Standard**.

1. Select **Home > Configure > Communications > Serial Port 1**.
2. Select **NMEA Standard > Serial Port 2 > NMEA Standard**.

Configuring GPSMAP 4000/5000 or 6000/7000 Series Device

You must set all NMEA 0183 port types to **NMEA Standard**.

1. Select **Home > Configure > Communications > NMEA 0183 Setup > Port Types**.
2. Select the first port.
3. Select **NMEA Standard**.
4. Repeat steps 2 and 3 for all input and output ports.

NMEA 0183 Output Sentences

Before you can connect the chartplotter to a Mercury Zeus or Axius system, you must configure the NMEA 0183 output sentences on your chartplotter.

Configuring the NMEA 0183 Output Sentences

Specific NMEA 0183 sentences must always be turned on for proper Zeus or Axius operation. Others must be turned on only if using a sounder.

1. Select an option:
 - If you are configuring a GPSMAP 600 series, select **Home > Configure > Communications > NMEA Setup**.
 - If you are configuring a GPSMAP 400/500 or 700 series, select **Home > Configure > Communications > NMEA 0183 Setup**.
 - If you are configuring a GPSMAP 4000/5000 or 6000/7000 series, select **Home > Configure > Communications > NMEA 0183 Setup > Output Sentences**.
2. Select **Route**.
3. Set GPBWC to **On** and set all of the other route sentences to **Off**.
4. Select **Back**.
5. Select **System**.
6. Set GPRMB and GPRMC to **On**, and set all of the other system sentences to **Off**.
7. Select **Back**.
8. Select **Garmin**, and set all of the sentences to **Off**.

Configuring the Turn Transition

Before you can use the chartplotter to navigate a boat equipped with the Mercury Zeus or Axius system, you must configure the turn transition.

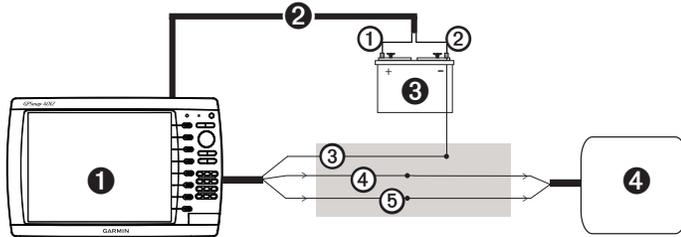
1. Select an option:
 - If you are configuring a GPSMAP 600 or 700 series, select **Home > Configure > Navigation > Turn Transition Activation > Distance > Turn Transition Distance**.
 - If you are configuring a GPSMAP 400/500, 4000/5000, or 6000/7000 series, select **Home > Configure > Preferences > Navigation > Turn Transition > Activation > Distance > Change Distance**.
2. Set the distance to **300 ft. (90 m)**.
3. Select **Done**.

NMEA 0183 Wiring Diagram

The following wiring diagram is an example of what you may encounter when wiring your NMEA 0183 device to the GPSMAP 400/500, GPSMAP 600, GPSMAP 700, GPSMAP 4000/5000, or GPSMAP 6000/7000.

NOTE: When connecting NMEA 0183 devices with two transmitting and two receiving lines, it is not necessary for the NMEA 2000 bus and the NMEA 0183 device to connect to a common ground.

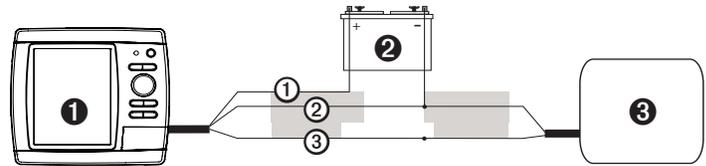
GPSMAP 4000/5000/6000/7000 Wiring Diagram



①	GPSMAP 4000/5000 or GPSMAP 6000/7000
②	Power cable
③	12 VDC power source
④	Mercury Zeus and Axis system

Wire	GPSMAP NMEA Harness Color - Function	Vessel View NMEA Harness (part # 899751T01)
①	Red (+)	N/A
②	Black (-)	N/A
③	NMEA 0183 ground	N/A
④	Grey - Tx/A (+)	White/Blue
⑤	Pink - Tx/B (-)	Blue/White

GPSMAP 400/500/600/700 Wiring Diagram



①	GPSMAP 400/500, GPSMAP 600, or GPSMAP 700
②	12 VDC power source
③	Mercury Zeus and Axis system

Wire	GPSMAP NMEA Harness Color - Function	Vessel View NMEA Harness (part # 899751T01)
①	Red (+)	N/A
②	Black (-)	Blue/White
③	Blue (Yellow on GPSMAP 600)	White/Blue

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