GPSMAP® 76CSx

mapping gps with sensors

owner’s manual
Thank you for choosing the Garmin GPSMAP 76CSx. The GPSMAP 76CSx uses the proven performance of Garmin GPS and full-featured mapping to create an unsurpassed portable GPS receiver. Take a moment now to compare the contents of this package with the packing list on the box. If any pieces are missing, contact your Garmin dealer immediately.

About This Manual
To get the most out of your new navigation system, take time to read this manual and learn the operating procedures for your unit in detail. This manual is organized into the following sections.

The Introduction contains the Table of Contents.

The Getting Started section provides an overview of the unit, how to turn the unit on, and how to acquire satellites.

The Basic Operation section provides information about setting up waypoints, routes, and tracks.

The Main Pages section contains an overview of the Satellite, Trip Computer, Map, Compass, and Altimeter Pages.

The Main Menu section describes features found in the Main Menu, and information on how to change settings.

The Appendix contains information such as specifications, optional accessories, and maintenance information. You can also find warranty and FCC information in the Appendix.

An Index is provided at the end of the manual for reference.

Manual Conventions
This manual uses the term Warning to indicate a potentially hazardous situation, which, if not avoided, could result in death or serious injury.

This manual uses the term Caution to indicate a potentially hazardous situation, which, if not avoided, may result in minor injury or property damage. It may also be used without the symbol to alert you to avoid unsafe practices.
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Software License Agreement
BY USING THE GPSMAP 76CSx, YOU AGREE TO BE BOUND BY THE TERMS AND CONDITIONS OF THE FOLLOWING SOFTWARE LICENSE AGREEMENT. PLEASE READ THIS AGREEMENT CAREFULLY.
Garmin grants you a limited license to use the software embedded in this device (the “Software”) in binary executable form in the normal operation of the product. Title, ownership rights, and intellectual property rights in and to the Software remain in Garmin.
You acknowledge that the Software is the property of Garmin and is protected under the United States of America copyright laws and international copyright treaties. You further acknowledge that the structure, organization, and code of the Software are valuable trade secrets of Garmin and that the Software in source code form remains a valuable trade secret of Garmin. You agree not to decompile, disassemble, modify, reverse assemble, reverse engineer, or reduce to human readable form the Software or any part thereof or create any derivative works based on the Software. You agree not to export or re-export the Software to any country in violation of the export control laws of the United States of America.

Product Registration
Help us better support you by completing our online registration today! Have the serial number on the back of your GPSMAP 76CSx handy and connect to our Web site (http://www.garmin.com). Look for the Product Registration link on our Home page.
Use this area to record the serial number of your GPSMAP 76CSx. Be sure to keep your original sales receipt in a safe place or attach a photocopy inside the manual.
Serial Number: ___ ___ ___ ___ ___ ___ ___ ___

Contact Garmin
If you should encounter any difficulty while using your GPSMAP 76CSx, or if you have any questions, in the U.S.A. contact Garmin Product Support by phone: 913/397.8200 or 800/800.1020, Monday–Friday, 8 AM–5 PM Central Time; or by e-mail at www.garmin.com/contactUs.
In Europe, contact Garmin (Europe) Ltd. at 44/0870.8501241.
Caring for the GPSMAP 76CSx
The GPSMAP 76CSx case is constructed of high quality materials and does not require user maintenance except cleaning.

Cleaning the Case
Clean the unit’s outer casing (except for the screen) using a cloth dampened with a mild detergent solution and then wipe dry. Avoid chemical cleaners and solvents that may damage plastic components.

Cleaning the Screen
The GPSMAP 76CSx screen should be cleaned using a soft, clean, lint-free cloth. Water, isopropyl alcohol, or eyeglass cleaner can be used if needed. If these are used, apply the liquid to the cloth and then gently wipe the screen with the moistened cloth.

Storage
Do not store the GPSMAP 76CSx where prolonged exposure to temperature extremes may occur (such as in the trunk of a car) as permanent damage may result. User information, such as waypoints and routes are retained in the unit’s memory without the need for external power. It is always a good practice to back up important user data by manually recording it or downloading it to a PC (transferring it to MapSource).

Water Immersion
The GPSMAP 76CSx is waterproof to IEC Standard 60529 IPX7. It can withstand immersion in 1 meter of water for 30 minutes. Prolonged submersion can cause damage to the unit. After submersion, be certain to wipe and air dry the unit and replace batteries before reuse.
Failure to avoid the following potentially hazardous situations could result in an accident or collision resulting in death or serious injury.

When navigating, carefully compare information displayed on the GPSMAP 76CSx to all available navigation sources, including information from visual sightings, and maps. For safety, always resolve any discrepancies or questions before continuing navigation.

Use the electronic chart in the GPSMAP 76CSx only to facilitate, not to replace, the use of authorized government charts. Official government charts and notices to mariners contain all information needed to navigate safely.

**WARNING:** This product, its packaging, and its components contain chemicals known to the State of California to cause cancer, birth defects, or reproductive harm. This Notice is being provided in accordance with California’s Proposition 65. If you have any questions or would like additional information, please refer to our Web site at [http://www.garmin.com/prop65](http://www.garmin.com/prop65).
Caution

Failure to avoid the following potentially hazardous situations may result in injury or property damage.

Use the GPSMAP 76CSx only as a navigational aid. Do not attempt to use the GPSMAP 76CSx for any purpose requiring precise measurement of direction, distance, location, or topography. This product should not be used to determine ground proximity for aircraft navigation.

The Global Positioning System (GPS) is operated by the United States government, which is solely responsible for its accuracy and maintenance. The government’s system is subject to changes which could affect the accuracy and performance of all GPS equipment, including the GPSMAP 76CSx. Although the GPSMAP 76CSx is a precision navigation device, any navigation device can be misused or misinterpreted and, therefore, become unsafe.

Map Data Information: One of the goals of Garmin is to provide customers with the most complete and accurate cartography that is available to us at a reasonable cost. We use a combination of governmental and private data sources, which we identify in product literature and copyright messages displayed to the consumer. Virtually all data sources contain inaccurate or incomplete data to some extent. In some countries, complete and accurate map information is either not available or is prohibitively expensive.
GETTING STARTED

Unit Overview

Internal antenna

Interface keys

Auxiliary GPS Antenna Connector (under weather cap)

Battery compartment cover

Battery compartment locking D-ring

External Data/Auxiliary Power Port (under weather cap)

USB connector port (under weather cap)

Carry Lanyard attachment slots
Installing the Batteries, MicroSD Card, and Lanyard

The GPSMAP 76CSx operates on two AA batteries (not included), which are located in the back of the unit. You can use Alkaline or NiMH batteries. See page 66 for information on setting the battery type.

To install the batteries:
1. Remove the battery cover by turning the D-Ring 1/4 turn counter-clockwise and pulling the cover loose.
2. Insert the batteries, observing the proper polarity. A polarity diagram is molded into the battery compartment.
3. Reinstall the battery cover by aligning the back cover with the unit and turning the D-Ring 1/4 turn clockwise.

Remove the batteries from your GPSMAP 76CSx when you do not expect to use the unit for several months. Stored data is not lost when batteries are removed.

To install and uninstall the MicroSD card:
1. Remove the battery cover by turning the D-Ring 1/4 turn counter-clockwise and pulling the cover loose.
2. Press down on the top edge of the MicroSD card until you hear a click. Gently release the card.
3. Press down again to install the card.

To install the Lanyard:
1. Place the loop of the Lanyard through the slot at the bottom of the unit.
2. Route the strap through the loop and pull tight.
Using the GPSMAP 76CSx Keypad

**IN/OUT Zoom Keys**
- Press to zoom in or out on the Map Page.
- Press to scroll up or down a list on any other page.

**FIND/MOB Key**
- Press at any time to view the Find Menu.
- Press and hold for MOB.

**POWER Key**
- Press and hold to turn the unit on or off.
- Press and Release to adjust the backlighting.

**QUIT Key**
- Press to cancel data entry or exit a page.

**ROCKER Key**
- Press up, down, left, or right to highlight options and to enter data, or move the map panning arrow.

**PAGE Key**
- Press to cycle through the main pages.
- Press and hold to turn the compass on or off.

**MENU Key**
- Press to view page options.
- Press twice to view the Main Menu.

**ENTER/MARK Key**
- Press and release to enter highlighted options, data or confirm on-screen messages.
- Press and hold at any time to mark your current location as a waypoint.
Turning on the GPSMAP 76CSx

When the GPSMAP 76CSx is turned on, the Introduction Page appears, followed by the Satellite Page. The unit must collect satellite data and establish its current location.

To turn the GPSMAP 76CSx on and off:
1. Press and hold the POWER key. When the unit turns on, a tone sounds and the Introduction Page appears, followed by the Satellite Page.

2. To turn off the GPSMAP 76CSx, press and hold the POWER key again.

Adjusting the Backlight

You might want to adjust the backlight to see the screen better.

To adjust the backlight level:
1. Press and quickly release the POWER key.
2. Press up on the ROCKER to increase the brightness, or press down to decrease.
3. Press ENTER or QUIT to close the Backlight adjustment window.

See page 67 for information on changing the screen colors and backlight timeout and brightness levels.
Initializing the GPS Receiver
The first time you turn on your GPSMAP 76CSx, the GPS receiver must collect satellite data and establish its current location. To ensure proper initialization, the GPSMAP 76CSx is shipped from the factory in AutoLocate mode, which allows the receiver to “find itself” anywhere in the world. To receive satellite signals, you should be outdoors and have a clear view of the sky.

To initialize your GPSMAP 76CSx:
1. Press and hold the POWER key to turn on the GPSMAP 76CSx.
2. Hold the unit in front of you with the top tilted upward. When the receiver has signals from at least three satellites, the top of the page changes to indicate position accuracy and location coordinates.
3. Press and release the PAGE key until the Map Page appears. You are now ready to begin GPS-aided navigation.

You can also see a sky view of the satellites overhead with your location centered. The outer circle represents the horizon and the inner circle a location 45 degrees from the horizon. The numbers shown indicate the number assigned to each satellite. The bars at the bottom of the page indicates the strength of satellite signal.
Initialization Options
If the unit cannot get a satellite fix, an options menu with a list of solutions appears. Highlight the appropriate solution and press ENTER.

Use With GPS Off—use this option to save battery power when you do not need the GPS on.

New Location—use when you have moved the unit more than 600 miles and you are having trouble locking onto satellite signals.

Restart Search—use when you have not moved, but are having trouble locking onto satellite signals.

Continue Acquiring—use when you are in an area where the satellite signals are temporarily blocked.

Using the GPSMAP 76CSx
This section explains how to enter and select information with the GPSMAP 76CSx.

Understanding Terms
As you progress through this owner’s manual, you are directed to press a specific key or highlight a field on the screen. When you are directed to press a key, you should press and quickly release the key. If the key needs to be held down for a period of time to start a secondary function, the instructions will tell you to do so. When a field is highlighted on the screen, it is highlighted in yellow. The position of the highlight is controlled by the ROCKER.

The following terms are used throughout this manual:

Highlight—move the highlighted area on the screen up, down, left, or right with the ROCKER to select individual fields.

Field—the location where data or an option can be shown and entered. Select (highlight) a field using the ROCKER to begin entering data or selecting options.
On-screen button—use the ROCKER to highlight a button, and press ENTER to select the button.

Scroll bar—when viewing a list of items too long to appear on the screen, a scroll bar appears along the right side of the list. To scroll through a list, press up or down on the ROCKER.

Default—the factory setting saved in the unit’s memory. You can change the settings, but you can also revert to the factory (default) settings when you select Restore Defaults.

Selecting Options and Entering Data
Use the ROCKER to highlight, select, or choose an item in a list or a field on the screen.

To select and activate an option:
1. From any page, press MENU. An Options Menu appears with a list of additional options for that page.
2. Use the ROCKER to move the highlight up, down, right, or left on the menu to highlight the option you want, and press ENTER to select it.

To exit a menu or return to the previous setting:
Press QUIT. The QUIT key moves backward through your steps. Press QUIT repeatedly to return to the starting page.
Using the Status Bar

At the top of each page, the status bar provides status information for several unit features.

- The Battery Power icon (🔋) shows the remaining power as the battery. The Auxiliary Power icon (🔌) appears when the unit is plugged in to an external or USB power source.
- Satellite signal status is shown when searching for or acquiring satellites (📺), when a 2D fix (2D) is attained and when a 3D fix (3D) is attained (four or more satellites are received.)
- The Backlight icon (💡) appears when the backlight is on. The Backlight is off when you turn the unit on. The Backlight uses a significant amount of battery power.
- The USB Cable Connection icon (💻) appears when the unit is in communication with a PC USB.
- Electronic compass icon (🔍) appears when the electronic compass is turned on.
On-Screen Messages

When a significant event in the operation of the unit occurs, an on-screen message appears to advise you of the occurrence. In each case the condition is described and often a remedy provided. Press ENTER to acknowledge the message and close the window.

Using the Databases

Optional MapSource CD-ROMs enhance the versatility of your GPSMAP 76CSx. This data is loaded to the MicroSD Card already installed in the unit. With optional MapSource City Navigator data, you can view listings of nearby restaurants, lodging, shopping centers, attractions and entertainment, and even retrieve addresses and phone numbers for any listed location.

The included USB Interface Cable or an optional PC interface cable (with a serial connector) is used to transfer MapSource CD-ROM data to the MicroSD card.

Mad data transfer requires the USB Interface Cable provided with the unit to transfer MapSource data from a PC to the MicroSD card when installed in the GPSMAP 76CSx. Inserting the MicroSD card in a standard SD card adapter and using a card reader allows for faster data transfer time.

See the Garmin Web site (http://www.garmin.com/cartography/) for compatible MapSource products.
Basic Operation

This section explains some of the more common operations you will perform with your GPSMAP 76CSx including creating and using waypoints, tracks, and routes using the Find Menu.

Creating and Using Waypoints

Waypoints are locations or landmarks you record and store in your GPS. They are locations you might want to return to later. You can add waypoints to routes and even create a Go To directly to the selected waypoint.

Waypoints can be created using three methods. You can press the ENTER/MARK key while at a location, create a waypoint on the Map Page, or enter coordinates for a waypoint manually.

Marking Your Current Location

Use the ENTER/MARK key to quickly capture your current location to create a new waypoint. You must have a valid position (2D or 3D) fix to mark your current location.

To mark your current location:
1. Press and hold the ENTER/MARK key until the Mark Waypoint Page appears. A default three-digit name and symbol are assigned to the new waypoint.

   ![Mark Waypoint Page]

   - Waypoint name
   - Waypoint symbol

2. To accept the waypoint with the default information, highlight OK, and press ENTER. To change any information on the Mark Waypoint Page, highlight the appropriate field, and press ENTER to open the on-screen keypad. After entering and confirming your changes, highlight OK, and press ENTER.
Creating Waypoints Using the Map

You can quickly create a waypoint using the Map Page. When you pan the map and move the pointer over a map item, you will see a highlighted description of the item.

To create a waypoint using the Map Page:

1. On the Map Page, use the ROCKER to move the pointer to the map item you want to mark as a waypoint.
2. Press and quickly release ENTER/MARK to capture the pointer location and open the information page for the map item.
3. Highlight Save, and press ENTER.
   If the selected map item contains no information, a “No map information at this point. Do you want to create a user waypoint here?” message appears. Highlight Yes, and press ENTER.
4. To change any information on the Waypoint Page, highlight the appropriate field, and press ENTER to open the on-screen keypad. After entering and confirming your changes, highlight OK, and press ENTER.

Creating a Waypoint Using Coordinates

You can manually enter location coordinates to create a waypoint. This method is useful for creating a waypoint at a specific latitude/longitude position when using a chart.

To create a new waypoint by entering location coordinates:

1. Create a new waypoint.
2. On the Waypoint Page, highlight the Location field, and press ENTER to open the on-screen keypad.
3. Use the **ROCKER** to enter location coordinates. Highlight OK, and press **ENTER** when finished.

4. Press **QUIT** to exit.

**Editing Waypoints**

You can edit waypoints when created or at a later date. You can change the symbol, name, note, location, elevation, and depth.

**To edit a waypoint:**
1. Press **FIND** to open the Find Menu.
2. Highlight the **Waypoints** icon, and press **ENTER** to open the Waypoints Page.
4. Make changes by highlighting each field and use the waypoint symbol chart, and alphanumeric keypad to enter new data.
5. Press **QUIT** when finished.

**Deleting Waypoints**

You can delete waypoints from the Waypoint Page.

*NOTE: When you delete a waypoint, you cannot recover it from the unit.*

**To delete a waypoint:**
1. Press **FIND** to open the Find Menu.
2. Highlight the **Waypoints** icon, and press **ENTER** to open the Waypoints Page.
4. Highlight the **Delete** button, and press **ENTER**. A confirmation message appears.
5. Highlight **Yes**, and press **ENTER** to delete the waypoint.
To move a waypoint on the Map Page:
1. On the Find Menu, Highlight the **Waypoints** icon, and press **ENTER** to open the Waypoints Page.
2. Select the waypoint you want to move, and press **ENTER**. The Waypoint Page opens.
3. Highlight the **Map** button, and press **ENTER** to show the waypoint on the map.
4. Press **ENTER** again to place a **MOVE** marker next to the waypoint.
5. Use the **ROCKER** to move the waypoint to a new location on the map, and press **ENTER**.

### Averaging the Waypoint’s Location

You can average a new waypoint location over time to produce a more accurate location.

**NOTE:** You must have a GPS Satellite fix before you can average a waypoint’s location.

To calculate the average location:
1. Press **FIND** to open the Find Menu.
2. Highlight the **Waypoints** icon, and press **ENTER** to open the Waypoints Page.
3. Select the waypoint for which you want to calculate the average location, and press **ENTER**.
4. Press **MENU** to open Options Menu
5. Highlight **Average Location**, and press **ENTER** to open the Average Location Page. The unit begins calculating the average location of the waypoint.
6. Press ENTER to save the location.

**Projecting a Waypoint**

You can create a new waypoint by projecting the distance and bearing from a specific location to a new location.

To project a waypoint:
1. Press FIND to open the Find Menu.
2. Highlight the Waypoints icon, and press ENTER to open the Waypoints Page.
4. Press MENU to open the Options menu.
5. Select Project Waypoint, and press ENTER to open the Project Waypoint Page.
6. Enter the distance and bearing to the projected waypoint in the appropriate fields at the bottom of the page, and press QUIT when finished.
**Proximity Waypoints**

Use the Proximity Waypoints Page to define an alarm circle around a waypoint.

1. Press **MENU** twice to open the Main Menu.
2. Highlight the **Proximity** icon, and press **ENTER** to open the Proximity Waypoints Page.
3. Highlight an empty line, and press **ENTER** to open the Find Menu.
4. Select a waypoint from the Waypoints List or from any other group of map points, and press **ENTER** to open the information page for the item.
5. With the **Use** button highlighted, press **ENTER** to add the point to the list on the Proximity Waypoints Page.
6. Use the **ROCKER** to highlight the **Radius** field if you want to enter a value different than the default of 1 mile.

**To turn proximity alarms on or off:**

1. Press **MENU** twice to open the Main Menu.
2. Highlight the **Proximity** icon and press **ENTER** to open the Proximity Waypoints Page.
3. Highlight the **Proximity Alarms** check box, and press **ENTER** to initiate the alarm feature. As you approach a proximity waypoint, a tone sounds and a “Near Proximity Point” message appears. When you move outside the set radius, a “Leaving Proximity Point” message is shown.
To clear one or all proximity waypoints from the list:
   - To remove or review a single entry, press ENTER.
   - Or
   - To remove all waypoints from the list, press MENU, highlight Remove All, and press ENTER.

**Man OverBoard (MOB)**
Another method for creating a waypoint is the Man Overboard (MOB) feature. Typically an application for marking a location on water where you cannot stop quickly and must return to a point where there are no landmarks for reference.

To create a waypoint using the MOB feature:
1. Press and hold the FIND/MOB key to mark the MOB waypoint.
2. Press ENTER to open the Map Page showing the path from your current location to the MOB point. Use the Compass Page for additional guidance to the MOB point.

**Using the Find Menu**
Use the Find Menu to search for waypoints, cities, and exits included in the GPSMAP 76CSx basemap. You can also find saved waypoint and geocache points. Additional icons appear depending on the optional BlueChart or MapSource data loaded to the unit. Press FIND to open the Find Menu.

When you access a Find list, it contains only those items near your current location or the pointer (if active).
The options menu for each category contains a submenu of search options such as Find By Name, Find Nearest, Select Symbol (for waypoints), Change Reference (by moving the pointer to a new location), Nearest Containing (a keyword you enter), Select Category (for those groups such as Food & Drink, and Lodging). Use these options to shorten your search.

**Find By Name**
If you know the name of the location you want to find, use the Find By Name option.

To find a location using Find By Name:
1. Press FIND to open the Find Menu.
2. Use the ROCKER to highlight the icon for the type of item for which you want to search, and press ENTER.
   Or
To search the entire database, select the All Points of Interest icon, and press ENTER.
3. Press MENU, highlight Find By Name, and press ENTER.
4. Use the ROCKER and ENTER keys to operate the on-screen keypad and enter the name of the location you want to find. When the Find list contains a match, highlight OK and press ENTER.
5. Highlight the location in the Find list, and press ENTER. The item's information page opens, allowing you to save the item as a waypoint, show the item on the map, or automatically create a route (Go To) the item.
Recent Finds
The Recent Finds Page shows a list of the last 50 items you have searched for or gone to recently.

To go to a recently found item:
1. Press FIND to open the Find Menu.
2. Press FIND again or highlight the Recent Finds icon and press ENTER to open the Recent Finds Page.
3. Use the ROCKER to select the item you want to go to, and press ENTER to open the item’s information page.
4. Highlight Go To, and press ENTER to begin navigation.

Using the Find Information Page
When you select an item from the Find List and press ENTER, an information page shows detailed information about the item. Each information page contains three on-screen buttons. Different buttons appear depending on whether you are selecting an item to navigate to or adding an item.

Find Information Page Options Menu
The Options Menu for each information page contains options for using a Find item as a tool for navigation.

To use the Options Menu:
1. With an information page open for a Find item, press MENU to open the Options Menu.
2. Use the ROCKER to select an option, and press ENTER:

   Average Location—samples a waypoint location over time and averages the result for a more accurate location reference. See page 13 for more information.

   Project Waypoint—create a new waypoint by entering bearing and distance from a reference location. See page 14 for more information.
Find Near Here—returns you to the Find Menu where you can search for map items near the item defined on the information page.

Change Reference—point to a new location on the Map Page using the pointer.

Set Proximity—program an alarm to sound when you are within a specified radius of an item. See page 15 for more information.

Add To Route—include this item on a new route or add it to an existing route. See “Creating and Using Routes” on page 31 for more information.

View Sun and Moon—view Sun and Moon tables for this item location. See page 85 for more information.

View Hunt and Fish—view Hunt and Fish tables for this item location. See page 86 for more information.

Map Information—show the map from which the map item originated. See the Appendix for information about downloading detailed maps.

To find an item near another item:
1. Press FIND to open the Find Menu.
2. Select an icon on the Find Menu, and press ENTER.
3. Highlight an item in the Find list, and press ENTER to open the information page.
4. Press MENU to open the Options Menu, Highlight Find Near Here, and press ENTER. The Find Menu opens again with each category containing items near the item selected on the information page.
5. Select a category icon and press ENTER to open a Find list of items near the item.
To find an item from another location on the map:
1. Press **FIND** to open the Find Menu.
2. Select an icon on the Find Menu, and press **ENTER**.
3. Press **MENU** to open the Options Menu, Highlight **Change Reference**, and press **ENTER**. The Map Page appears.
4. Use the **ROCKER** to pan the arrow (pointer) to the map location you want, and press **ENTER**. The Find list shows a list of items near the new map location.

### Finding a Waypoint

The Waypoints Page contains a list of all saved waypoints. Waypoints are stored in alphanumeric order and are also identified by a symbol assigned from a list of symbol types.

**To find a waypoint:**
1. Press **FIND** to open the Find Menu.
2. Highlight the **Waypoints** icon, and press **ENTER** to open the Waypoints Page.
3. Use the **ROCKER** to select a waypoint, and press **ENTER**. The Waypoint Page opens.
Finding a Geocache
Use the Geocache icon to view the list of geocache locations created using your GPSMAP 76CSx or downloaded from your computer. A geocache location is a waypoint with a special geocache symbol assigned to give special significance and to allow it to be separated from others on the waypoints list. For more information on creating a geocache point, see Geocache Setup instructions on page 71 and www.garmin.com/products/gpsmap76csx/.

To find a geocache:
1. Press FIND to open the Find Menu.
2. Highlight the Geocache icon, and press ENTER to open the Geocache Page. You can view found geocaches or those that have not been found.
3. Use the ROCKER to highlight a geocache on the list, and press ENTER to open the information page.
4. Highlight the Go To button and press ENTER to navigate to the geocache location. When you navigate to a geocache, the Compass Page changes to Geocache Navigation mode and any additional information about downloaded cache location is shown in the comment field.

When a geocache is found, the unit will mark the cache as found, log an entry into the calendar, and provide an option that, when activated, will show the nearest cache.

Finding a City
Use the Cities icon on the Find Menu to find any city listed in the mapping database (either in the basemap or from downloaded detailed mapping data).

To find a city:
1. Press FIND to open the Find Menu.
2. Highlight the Cities icon, and press ENTER. The Cities Page shows a list of cities near your current location.
3. Select a city from the list and press **ENTER** to open the information page for the selected city. Or If the city you want is not listed, press **MENU**, select a search method, and press **ENTER**.

**Finding an Interstate Exit**

Use the **Exits** icon on the Find Menu to find an interstate exit.

**To find an interstate exit:**
1. Press **FIND** to open the Find Menu.
2. Highlight the **Exits** icon, and press **ENTER**. The Exits Page shows a list of interstate exits near your location.

3. Use the **ROCKER** to select an exit, and press **ENTER** to open the information page. This page contains the exit description, a list of available services near the exit, and the distance and bearing from the exit to the highlighted service.

4. Select a service from the list, and press **ENTER** to open the information page for the selected service.

5. Select **Save**, **Map**, or **Go To** from the bottom of the page.
To find an address:
1. Press FIND to open the Find Menu.
2. Highlight the Addresses icon, and press ENTER to open the Addresses Page.

If your unit has a GPS fix, the <Enter Region> field is populated with your current region.
You do not have to specify a city in the <Enter City>, as the database has information for the entire region. However, you can select a city if you want to reduce the possible number of address matches.
In place of a city, you can use extended postal codes in select European areas.

3. Highlight the <Enter Number> field, and press ENTER.
4. Type the street number using the on-screen keypad. When finished, highlight OK and press ENTER again.
5. Highlight the <Enter Street Name> field, and press ENTER. The street list opens.
6. Use the on-screen keypad to enter enough of the street name to show a match. When finished, highlight OK, and press ENTER. A list of matches appears.
7. Select the address you want, and press ENTER to open the Address information page.
Finding an Intersection

If you downloaded detailed mapping data, use the Intersections icon on the Find Menu to search for an intersection. When you enter the two street names and a city, the find feature matches that data with intersections in the map database.

To find an intersection:
1. Press FIND to open the Find Menu.
2. Highlight the Intersections icon, and press ENTER to open the Intersections Page.
3. If your unit has a GPS fix, the <Enter Region> field is populated with your current region. You do not have to specify a city in the <Enter City>, as the database has information for the entire region. However, you can select a city if you want to reduce the possible number of intersection matches.
4. Highlight the <Enter Street 1> field, and press ENTER.
5. Type the street name using the on-screen keypad. When finished, highlight OK, and press ENTER again.
6. Repeat steps 4 and 5 to enter a street name in the <Enter Street 2> field. When finished, a list of matches appears below.
7. Select an intersection, and press ENTER to open the information page.

Searching for a Point of Interest

If you downloaded MapSource detailed mapping, you can use the All Points of Interest icon on the Find Menu to locate items such as nearby restaurants, lodging, landmark, and public building.
To find a point of interest:
1. Press **FIND** to open the Find Menu.
2. Highlight the **All Points of Interest** icon, and press **ENTER** to show a list of all points near your current location.
3. Highlight an item in the list, and press **ENTER** to open the information page for the item. Or press **MENU** to open the Options Menu where you can select options to help you narrow your search.
4. Highlight the item you want from the list, and press **ENTER** to open the information page for the selected item.

If you are searching for a restaurant that is part of a national chain, only the restaurant nearest to your location is shown when you search using the Find Nearest option. If you search using the By Name option, all of the locations for that chain in the mapping database are shown with the closest to your current location listed first.

**Custom Points of Interest**
You can create your own category for points of interest by using the Garmin POI Loader utility available from the Garmin Web site [www.garmin.com/products/poiloader/](http://www.garmin.com/products/poiloader/).
Using Tracks
The Tracks feature creates an electronic bread crumb trail or “track log” on the Map Page as you travel. The track log contains information about points along its path, including time, location, elevation, and depth (depth requires NMEA input, see page 92) for each point.

The track log starts recording as soon as the unit gets a location fix. The percentage of memory used by the current track log appears at the top of the Tracks Page.

To clear the track log:
1. Press MENU twice to open the Main Menu.
2. Select the Tracks icon and press ENTER to open the Tracks Page.
3. Highlight the Clear button, and press ENTER. A confirmation message appears.
4. Highlight OK, and press ENTER.

To set up a track log:
1. Press MENU twice to open the Main Menu.
2. Select the Tracks icon, and press ENTER to open the Tracks Page.
3. Highlight the Setup button, and press ENTER to open the Track Log Setup Page.
Wrap When Full—when selected, the track log records over the oldest data with new data.

Record Method—Distance records track points after a specified distance is traveled. Time creates track points after a specified time has elapsed. Auto allows you choose from five intervals.

Interval—records a track according to the Record Method and Interval. Enter a specific distance, time, or frequency.

Color—select the color of the active track on the map.

To save the entire track log:
1. Press MENU twice to open the Main Menu.
2. Select the Tracks icon, and press ENTER to open the Tracks Page.
3. Highlight the Save button and press ENTER. A message appears asking you if you want to save the entire track.
4. Select Yes, and press ENTER to save the track. A “Saving Track” message appears followed by the Saved Track Page.

Use the Saved Track page to rename the track, view the track distance and calculated area, and specify a color for the track on the Map Page.

To save a portion of the track log:
1. Press MENU twice to open the Main Menu.
2. Select the Tracks icon, and press ENTER to open the Tracks Page.
3. Highlight the Save button and press ENTER, a message appears asking you if you want to save the entire track.
4. Select **No**, and press **ENTER** to save only a portion of the track log. A map showing the entire track appears.

5. Use the **ROCKER** to move the pointer to the point on the track line that you want to be the beginning point, and press **ENTER**.

6. Use the **ROCKER** to move the arrow to the point on the track line that you want to be the ending point, and press **ENTER**. A “Saving Track” message appears followed by the Saved Track Page.

7. With **OK** highlighted, press **ENTER**.

**To view a track on the map:**

On the Saved Track Page, select the **Map** button, and press **ENTER** to open the Map Page. A map showing the entire track appears. Begin and End markers and user waypoints are added to the track.

Use the Area Calculation option on the Options Menu to calculate the area of a track.

**To calculate the area of a track:**

1. With the Track Log Page open and the Track Log on, press **MENU** to open the Options Menu.

2. Highlight **Area Calculation**, and press **ENTER** to open the Area Calculation Page.

3. Press **ENTER** to start the area calculation. As you begin to move and define the area’s boundaries, a **Stop** button appears at the bottom of the page.

4. When finished defining the area, press **ENTER** to open the page with a **Save** button.
5. Press ENTER to save the new track to the Saved Tracks list on the Tracks Page.

**Track Profiles**
After save a track, you have a record of the path you traveled and altitude profile.

**NOTE:** This option is available only if Garmin MapSource U.S. Topo 24K map data is used.

To view a track profile:
1. Open the Saved Track Page, and press MENU.
2. Highlight Profile, and press ENTER to view the Track Profile.
3. At any point along the profile, you can press ENTER to show that point on the map.
4. Press MENU to use **Zoom Ranges** and **Hide Symbols** options.
A Track Elevation Profile can also be created from Digital Elevation Models (DEM) maps (MapSource U.S. Topo 24K), which include elevation data contained in the map. When these types of maps are available, a **Use Map Data - Use Track Data** option menu appears when you select **Profile**.

### Navigating a Saved Track

You can save your track log to use later as a TracBack®. When initiated, a TracBack route takes you back to the stored track log point you select.

**To Use the TracBack feature:**

1. With the Saved Tracks Page for the track or the Track Log open, highlight the **TracBack** button, and press **ENTER** to open the TracBack Page. A map showing the entire track appears and you are prompted to select the point you want to TracBack to.

2. Use **ROCKER** to move the pointer to the point on the map, and press **ENTER** to start navigating the TracBack.

3. Select either **Follow Road** to route back to the selected point using available roadways, or select **Follow Track** to retrace your original path of travel. Highlight the **Don’t Ask Again** option, and press **ENTER** if you want to use the same option each time you use TracBack. The Map Page opens, with directions to the first turn on the track at the top of the page. Move in the direction of the first turn. When you reach the first turn, directions to the next turn are shown, and so on, until you reach your destination.

4. To stop the TracBack, press **MENU**, and select **Stop Navigation**.
Creating and Using Routes

Route navigation allows you to create a sequence of intermediate waypoints that lead you to your final destination. The GPSMAP 76CSx lets you store 50 routes with up to 250 points each.

Creating a Route

You can create or modify a route using the Routes Page, and you can add waypoints to a route from the Find Menu. You can create more complex routes using a PC and MapSource mapping programs and then transfer them to the unit memory. Auto-Routes, which are generated when you select Go To for a Find item, map item, or waypoint, cannot be saved. Saved routes with more than 50 waypoints cannot be navigated using the Follow Roads option.

To create a route:

1. Press MENU twice to open the Main Menu.
2. Highlight the Routes icon, and press ENTER to open the Routes Page.
3. Use ROCKER to highlight the New button, and press ENTER to open the Route Page.
4. With the <Select Next Point> field highlighted, press ENTER to open the Find Menu.
5. Use the Find Menu to select a route waypoint from one of the Find Menu groups and open the information page for the selected waypoint, city, exit, point of interest, and so on.
6. Highlight the Use button, and press ENTER to add it to the route.
7. To add more points to the route, repeat steps 4 to 6. You can rename the route if you want.
8. Highlight the Navigate button, and press ENTER to begin navigating.
Navigating a Route
After you create a route, you can begin navigation immediately or save it to the Saved Routes list.

To navigate a saved route:
1. Press MENU twice to open the Main Menu.
2. Highlight the Routes icon, and press ENTER to open the Routes Page.
3. Highlight a saved route, and press ENTER to open the Route Page.
4. Highlight the Navigate button, and press ENTER.
5. Select Follow Road or Off Road from the prompt.
6. To stop navigating, press MENU, select Stop Navigation, and press ENTER.

When navigating a route, a guidance message and graphic view of turns in the route appear as you approach each one. Using the Follow Roads option on the Routing Setup Page increases the number of turns and shows an Active Route Page with a list of turns.

If you selected the Off Road option you can view only the list of points for a route from the Active Route Page. See “Routing Setup” on page 70.

To preview the turns for an active route:
1. On the Routes Page, highlight a saved route, and press ENTER to open the Route Page for the selected route.
2. Highlight the Navigate button, and press ENTER to begin navigation and show the route on the Map Page.
3. To view the list of turns on the route, press PAGE to open the Active Route Page. To view an individual turn on the list, use the ROCKER to highlight it, and press ENTER.

The Turn Preview Page shows the turn and guidance text and a small field at the bottom showing the turn number in sequence and total turns in the route.

4. To scroll through all turn previews, press up or down on the ROCKER. Press QUIT close the Turn Preview Page and return to the Active Route Page.

Editing a Route
After you create a route, use the Route Page to edit, change the route name, and review route points.

To change the name of the route:
1. Press MENU twice to open the Main Menu.
2. Highlight the Routes icon, and press ENTER to open the Routes Page.
3. Select a saved route, and press ENTER.
4. Highlight the route name field at the top of the Route Page, and press ENTER.

5. Use the ROCKER to operate the on-screen keypad and edit the route name.
To review individual route points:
1. Press **MENU** twice to open the Main Menu.
2. Highlight the **Routes** icon, and press **ENTER** to open the Routes Page.
3. Select a saved route, and press **ENTER**.
4. Highlight a point on the Route Page, and press **ENTER** to open an options menu.
5. Highlight **Review** and press **ENTER** to open the information page for the route point.
6. Select **Save** (save the point as a waypoint), **Map** (show the point on the Map Page), or **Go To** (navigate to the point), and press **ENTER**.

To delete a route:
1. Press **MENU** twice to open the Main Menu.
2. Highlight the **Routes** icon, and press **ENTER** to open the Routes Page.
3. Press **MENU** to open the Options Menu.
4. Highlight **Delete All Routes**, and press **ENTER** to clear the list of saved routes. A confirmation message appears, asking “Do you really want to delete all routes?” Select **Yes**, and press **ENTER**.

To select the off-road transition for a route:
1. Press **MENU** twice to open the Main Menu.
2. Highlight the **Routes** icon, and press **ENTER** to open the Routes Page.
3. Press **MENU** to open the Options Menu.
4. Select **Off Road Transition**, and press **ENTER** to open the Off Route Transition Page.
5. Highlight the **Route Leg Transition** field, and press **ENTER** to view the list of options.
6. Select the method to use (**Manual** or **Distance**) when advancing the route to the next point.
Select **Distance** to enter a radius so that when you are within the entered distance, the GPSMAP 76CSx will lead you to the next point on your route.

Select **Manual** to transition to the next waypoint anytime while navigating a route.

**Using the Route Page Options**
The Route Page shows all points stored in memory for the route selected on the Routes Page. Press **MENU** to open the Route Page Options Menu.

- **Remove All**—removes all waypoints from the saved route.
- **Reverse Route**—reverses the order of the route points in the saved route.
- **Profile**—creates a vertical profile of the route.

  **NOTE:** This option is available only if Garmin MapSource U.S. Topo 24K map data is used.

- **Copy Route**—makes a copy of the saved route with the same name, followed by a number.
- **Delete Route**—deletes the saved route.
- **Change Data Fields**—select different values for the two data fields at the bottom of the page. See page 54 for more information.
- **Restore Defaults**—restore route settings to the factory default settings.
The GPSMAP 76CSx has six main pages: Satellite Page, Trip Computer Page, Map Page, Compass Page, Altimeter Page, and the Main Menu. You can cycle through these pages by pressing the PAGE key to move forward or pressing the QUIT key to reverse. Additional pages can be added using the Page Sequence option on the Main Menu. An Active Route Page appears when you are actively navigating.

Each page has an Options Menu, which contains the setup options and functions that apply to the page. To view the Options Menu for a page, press MENU.
Satellite Page
The Satellite Page shows the receiver status, satellite locations, satellite signal strength, and the receiver’s current location when the unit receives signals from at least three satellites.

Using the Satellite Page Options Menu
Press MENU to open the Options Menu.

- **Use With GPS Off/On**—enables you to turn the GPS receiver on or off.
- **Track Up/North Up**—indicates whether satellites are shown with the rings oriented with North toward the top of the screen or your current track toward the top of the screen.
- **Multicolor/Single Color**—indicates whether each satellite is shown in a different color or the same color.
- **New Location**—use if you have moved the unit more than 600 miles and you are having trouble locking onto satellite signals.
- **GPS Elevation**—shows your current GPS elevation.
Map Page
The GPSMAP 76CSx comes with a built-in basemap that includes a database of cities, interstates, state and county highways, exit information, and lake and river outlines. The standard basemap can be enhanced with MapSource or BlueChart data.

Two map operating modes, position mode and pan mode, determine what cartography is shown on the map. Position mode pans the map to keep your present location in the screen area. The position marker ▲ shows your travel on the Map Page. When you press the ROCKER, the GPSMAP 76CSx enters pan mode, which moves the map to keep the white arrow (map pointer) within the screen area.

When you are in pan mode, you can move the map pointer about the page to highlight and identify map items. If there is more than one map item under the pointer, a list appears with the item selected on the map and highlighted on the list.

You can add and configure up to four optional data fields to the top of the page to provide a variety of travel and navigational information.

To show data fields on the Map Page:
1. Press MENU to open the Map Page Options Menu.
2. Highlight Data Field, and press ENTER. The Show sub-menu appears.
3. Select the number of data fields you want to show on the Map Page, and press ENTER.
To change a data field:
1. Press **MENU** to open the Map Page Options Menu.
2. Highlight **Change Data Fields**, and press **ENTER**. The first data field is highlighted.
3. Press **ENTER** to open the list of data field options.
4. Use the **ROCKER** to select an option, and press **ENTER**.
5. Use the **ROCKER** to move to the next field and repeat steps 3 and 4.

For an explanation of each data field option, see page 98 in the Appendix.

Using Additional Map Data
Optional Map Source CD-ROMs enhance the versatility of your GPSMAP 76CSx. With MapSource CD-ROMs, you can view listings such as nearby restaurants, lodging, shopping centers, attractions, and entertainment, and you can retrieve addresses and phone numbers for any listed location. With additional BlueChart data, you can access information such as marine navaids, wrecks, obstructions, and anchorage locations.

You can view the data currently loaded on your GPSMAP 76CSx unit and MicroSD card.

To review map information:
1. On the Map Page, press **MENU**.
2. Highlight **Setup Map**, and press **ENTER**.
3. Use the **ROCKER** to select the Map Setup-information page. The list of maps stored on the MicroSD card appears. A check mark indicates the map is shown on the Map Page.
Changing the Zoom Range

You can change the Zoom Range on the Map Page to view a smaller area in greater detail or view a larger area with less detail. Press **IN** to decrease the Zoom Range and show an area with greater detail; press **OUT** to increase the Zoom Range and show a larger area with less detail.

The current Zoom Range setting is shown in the lower left corner of the Map Page. If no further map information is available, “overzoom” appears under the Zoom Range. When using MapSource detailed maps, “mapsource” appears below the scale.

Map Orientation

There are two map orientation options. North Up orients the map like a paper map. Track Up orients the map in the direction of travel. When using Track Up, the North arrow indicates the orientation.

Map Page Options

Use the Map Page Options Menu to customize the Map Page. With the Map Page open, press **MENU**. To select an option, highlight it, and press **ENTER**.

The following options are available:

**Stop (Resume) Navigation**—stops navigation and is disabled when there is no active navigation.

**Recalculate**—recalculates a route and is disabled when there is no active navigation.
**Data Fields**—opens the Show sub menu so you can select the number of data fields to show at the top of the Map Page. Map Only, 2, 3, or 4 data fields.

**Change Data Fields**—allows you to select the type of data you want to show in the data fields. This option is available only if 2, 3, or 4 data fields is selected.

**Guidance Text**—shows messages on the screen advising you of your next navigation move when navigating to a destination.

**Setup Map**—access to six pages of Map settings so you can customize the map to your preferences.

**Measure Distance (Stop Measuring)**—Measures the distance from your current location to the map pointer.

**Turn Declutter On (Off)**—eliminates items on the map that can block road details when the map is zoomed out.

**Restore Defaults**—returns the map to the factory set map defaults.

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**Guidance Text**

When navigating, guidance text above the map.

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**To show guidance text:**

1. Press **MENU** to open the Map Page Options Menu.


3. Select an option (**Always Show**, **Never Show**, or **Show When Navigating**), and press **ENTER**.

If you select **Always Show** a guidance message always appears whether or not you are navigating.

If you select **Show When Navigating**, a guidance message shows until you select **Stop Navigation** from the Options Menu.
Setting up the Map Page
Use the Setup Map option to adjust how items are shown on the Map Page.

To customize the Map Page:
1. Press **MENU** to open the Map Page Options Menu.
2. Highlight **Setup Map**, and press **ENTER** to open the Map Setup Page. The top of the page contains icons for each setup page.
3. Use the **ROCKER** to move from icon to icon when selecting a map setup page and to move up and down the feature fields on each page.
4. With a Map Setup feature highlighted, press **ENTER** to show the list of options for that feature. Each map setup page has a sub menu of general options. To access this menu, press **MENU** with the page on the screen.

Map Setup—General Page
The Map Setup—General Page contains the settings for Orientation, Below, Auto Zoom, Detail, and Lock On Road.

Map Setup—General Page

Orientation—select how the map is shown. **North Up** always shows north at the top of the page. **Track Up** shows your current track toward the top of the page.

Below—set the map scale at which the Track Up feature shown, all scales above that revert to the North Up map orientation.
**Auto Zoom**—zoom the map scale to include the beginning and ending points of the current route segment.

**Detail**—select the degree of map detail shown.

**Lock On Road**—you can lock the position marker to show on the nearest road, compensating for variances in map position accuracy.

**Map Setup—Tracks Page**
The Map Setup—Tracks Page contains settings for Saved Tracks, Track Log, Track Points, and the Go To Line.

**Saved Tracks**—set the maximum zoom range at which saved tracks are shown on the map.

**Track Log**—set the maximum zoom range at which active track logs are shown.

**Track Points**—set the maximum number of track points used to record a track.

**Go to Line**—select either a bearing or course line for navigating to a point in an off road Go to.
**Map Setup—Points Page**
The Map Setup—Points Page to set the map scale at which Map Points, User Waypoints, Street Label, and Land Cover appear on the Map Page. Select Auto, Off, or from 20 ft to 800 mi.

**Map Setup—Text Page**
Use the Map Setup—Text Page to select the text size for descriptions of map items on the Map Page. You can select from Small, Medium, or Large.

**Map Setup—Information Page**
The Map Setup—Text Page shows a list of downloaded detailed maps such as topographic, marine charts, and MapSource maps with auto-routing capability. Use ROCKER to highlight a map and press ENTER to show it on the map screen or turn it off.
Map Setup – Information Page

Press **MENU** to view the list of options for showing maps.

**Map Setup—Marine Page**

Use the Map Setup—Marine Page to customize settings for marine colors, spot soundings, light sectors, and symbol sets when using downloaded marine charts MapSource BlueChart marine mapping data.

**Marine Colors**—toggles marine colors on or off on the Map Page.

**Spot Soundings**—toggles spot soundings on or off on the Map Page.

**Light Sectors**—controls the display of lighted navigation aids.

**Symbol Set**—select the symbol set to use (Auto, GARMIN, NOAA, International).

**Measuring Distance**

You can measure the distance between two map items.

To measure distance between two points:

1. Press **MENU** to open the Map Page Options Menu.
2. Highlight **Measure Distance**, and press **ENTER**. An on-screen arrow appears on the map at your current location with **REF** below it.
3. Move the arrow to the reference point (the starting point you want to measure from), and press **ENTER**. A push pin icon marks the starting point on the map.
4. Move the arrow to the point you want to measure to. The distance between the two points is shown in the upper-right corner of the Map Page.

5. Press QUIT to cancel.

Turning Declutter On or Off
You can remove unwanted items from the Map Page (declutter the screen) such as map item titles and icons. This is useful when the map is zoomed to a scale that is partially obscured by titles and icons that remain the same size regardless of the map scale.

To turn declutter on or off:
1. Press MENU to open the Map Page Options menu.
2. Highlight Turn Declutter On, and press ENTER.
3. To turn Declutter off, press MENU, select Turn Declutter Off, and press ENTER.
Compass Page

During active navigation, the Compass Page guides you to your destination with a graphic compass and a bearing pointer.

Restoring Defaults
Use the Restore Defaults option to return the map settings to factory settings.

When navigating, the Compass Page provides navigation data and directions. It uses a graphic compass ring, a bearing/course pointer, and digital data fields to show information, such as current speed, distance to the next point on the route, and estimated arrival time.
The rotating compass ring indicates the direction you are heading. The Bearing/Course Pointer indicates the direction (bearing) to your destination, relative to your current heading direction. The compass ring and bearing pointer work independently to show your direction of movement and the direction to your destination. You can choose a Bearing Pointer or Course Pointer for guidance.

The compass ring is an electronic compass that functions like a magnetic compass when you are stationary. When you are moving and reach a pre-set speed, it uses data from the GPS receiver to maintain your heading. When you stop (after a pre-set time), it again operates like a magnetic compass. The compass ring is especially helpful when using a paper map or chart in conjunction with your GPSMAP 76CSx for navigation. When the electronic compass is on, a compass icon appears in the status bar.

**Using the Electronic Compass**

When you manually turn the electronic compass off, it stays off until you manually turn it on again. However, sometimes when you turn the electronic compass on, the GPSMAP 76CSx overrides the compass and uses the GPS receiver to track your heading. You can customize the criteria for switching between the electronic compass and the GPS.
To turn the electronic compass on or off:
1. Press and hold the PAGE key to turn the electronic compass on or off. The Compass icon 📍 appears in the status bar when the electronic compass is on. When you are not using the electronic compass, turn it off to conserve batteries. When it is turned off, the unit uses the GPS receiver for navigation.
2. Hold the GPSMAP 76CSx level to get an accurate electronic compass reading. A “Hold Level” message appears if you are not holding the electronic compass correctly, or if it is not calibrated. (See the following page for calibration instructions.)

Setting the speed and time for Compass Auto On/Off:
1. Press MENU twice to open the Main Menu.
2. Highlight Setup, and press ENTER to open the Setup Menu.
3. Highlight the Heading icon, and press ENTER to open the Heading Setup Page.
4. Highlight the Switch to compass heading when below field, and press ENTER.
5. Use the numeric keypad to enter a speed.
6. Highlight the for more than field, and press ENTER to set the time delay from the time options list.

Calibrating the Electronic Compass
When you first use the GPSMAP 76CSx or after you install new batteries, you have to calibrate the electronic compass outdoors. The accuracy of the electronic compass is adversely affected if the unit is not held level or you are near objects that generate magnetic fields, such as cars or buildings.
To calibrate the electronic compass:
1. Press **MENU** to open the Compass Page Options menu.
2. Highlight **Calibrate Compass**, and press **ENTER** to open the Calibration Page.
3. With the **Start** button highlighted, press **ENTER**, and follow on-screen directions for holding and turning the unit.
   A message appears notifying you to adjust your turning speed as needed. Hold the unit level while turning.
   A “Calibration Successful” message appears when finished.
   If a “Calibration Failed” message appears, repeat the process.
4. Press **ENTER** to return to the Compass Page.

Compass Page Options
Use the options menu to customize the Compass Page. With the Compass Page open, press **MENU**. To select an option, highlight it, and press **ENTER**.

The following options are available:

**Sight ‘N Go**—aligns the pointer with the sighting mark (on the case above the screen) and the destination you can see in the distance.

**Stop (Resume) Navigation**—stops or starts navigation to your destination. This option is not available if you do not have an active go to or route.
Recalculate—recalculates your route based on your current position. This option is not available if you do not have an active go to or route.

Course (Bearing) Pointer—work independently of each other, one indicating the direction to your destination and the other, your relationship to a course line leading to the destination.

Data Fields—allows you to select the number of data fields that appear on the Compass Page.

Change Data Fields—allows you to select the type of data you want to show in the data fields. See page 54 for more information.

Calibrate Compass—allows you to calibrate the electronic compass.

Restore Defaults—restores the default settings for the Compass Page.

Sight ‘N Go Navigation
Sight ‘N Go allows you to set a course to a point you see in the distance.

To use Sight ‘N Go to navigate:
1. Press MENU to open the Compass Page Options menu.
2. Highlight Sight ‘N Go, and press ENTER to start the Sight ‘N Go feature. The compass ring with pointer is in-line with the sighting mark on the case.
3. Hold the unit at eye level and line up the two sighting marks with the distant object. Press ENTER to lock direction. The Sighting Page opens.
4. Highlight **Set Course**, and press **ENTER** to open the Compass Page.

5. Begin traveling to your destination on a course line using the Course or Bearing Pointer as a guide.

**To stop navigation:**
1. Press **MENU** to open the Map Page Options menu.
2. Highlight **Stop Navigation**, and press **ENTER** to stop navigating.

**Using the Course Pointer or Bearing Pointer**

The Bearing Pointer and Course Pointer work independently of each other. One indicates the direction to your destination, and the other indicates your relationship to a course line leading to the destination.

If the Bearing Pointer arrow is pointing straight up, for example, you are going directly to your destination. If it points any direction other than up, turn toward that direction until the arrow is pointing up and then continue in that direction. The Bearing Pointer always points to the destination, regardless of the direction you are moving.

The Bearing Pointer always indicates the direction to your destination from your current location.

The Course Pointer points in the direction of your destination, and you drift away from the line of travel from your original location to your destination, the Course Deviation Indicator (arrow with horizontal dotted line) provides graphic indication of drift (right or left) according to the scale shown at the edge of the compass ring. Move to the right or left to get back on course. This is most efficient if you are navigating on
water or where no major obstacles are in your path. It also helps you avoid hazards to either side of the course such as shoals or submerged rocks.

The Course Pointer indicates your course of travel from your original location and the distance off course.

**To select the Course Pointer or the Bearing Pointer:**
1. Press **MENU** to open the Compass Page Options menu. The Bearing Pointer is the factory default. When the Bearing Pointer option is shown, the Course Pointer is active and vice versa.
2. Highlight the Bearing or Course Pointer option, and press **ENTER** to start.

**Data Fields**
You can show three or four data fields on the Compass Page.

To show data fields on the Compass Page:
1. Press **MENU** to open the Compass Page Options menu.
2. Highlight **Data Field**, and press **ENTER**. The Show sub-menu appears.
3. Select the number of data fields you want to show on the Compass Page (three or four), and press **ENTER**.
To change data fields:
1. Press MENU to open the Compass Page Options menu.
2. Highlight Change Data Fields, and press ENTER. The first data field is highlighted.
3. Press ENTER to select from a list of types of navigation data to appear in that field.
4. Use the ROCKER to highlight the option you want, and press ENTER.
5. After entering your selection and entry, use the ROCKER to move to the next field and repeat the process.
6. Repeat Steps 3 and 4 to change remaining data fields.

To restore data fields to default settings:
1. Press MENU to open the Compass Page Options Menu.
2. Highlight Restore Defaults, and press ENTER to return the page to factory settings.

Altimeter Page
The Altimeter Page shows the current elevation, rate of ascent/descent, a profile of elevation changes over distance or time, or a profile of pressure changes over time.

The Status field at the bottom of the page shows the current elevation and your current rate of ascent or descent when moving. It can also show the ambient pressure and time of measurement.
You can configure the Profile field in the center of the page to show either elevation or ambient pressure plots as selected from the Altimeter Page Options menu.

Data fields at the top of the page are user selectable and show a variety of recorded or current data.

**Altimeter Page Options**

Use the Altimeter Page Options Menu to customize the Altimeter Page. With the Altimeter Page open, press **MENU** to open the Options Menu.

The following options are available:

- **Plot Over Time (Plot Over Distance)**—plots the elevation over time or distance.
- **View Elevation Plot (View Pressure Plot)**—shows elevation or pressure plot.
- **Zoom Ranges**—allows you to set the Zoom Ranges for elevation, distance, or time when you show the View Elevation Plot.
- **Reset**—allows you to reset the elevation data and the maximum elevation data.
- **Calibrate Altimeter**—if you know the correct elevation for your location, you can increase the accuracy of the altimeter using the Calibrate Altimeter option.
- **Restore Defaults**—use to clear recorded data from the page and begin recording new data.

You can customize the View option by using the Zoom Ranges option to determine time, distance, pressure, and elevation parameters.
Plot Over Time (Distance)
These two measurement options (changes over a set period of time or changes over a set distance) apply only to the View Elevation Plot option. The View Pressure Plot option is measured by time and pressure only. When one option is active, the other is shown on the Altimeter Page Options Menu.

View Pressure/Elevation Plots
Select the View Elevation Plot option to plot a profile of elevation changes that occur as you navigate over a set distance or period of time. Select View Pressure Plot to view a record of changes in barometric pressure for a set period of time. When one option is active, the other option is shown on the Options Menu.

To view elevation or pressure plots:
1. Use the ROCKER to select the option you want from the Altimeter Options Menu, and press ENTER to show the plot.
2. Adjust time and distance measurement using the Elevation Plot Zoom Ranges explained on following pages.
3. To clear the plot and start again, you must clear the Track Log.
Zoom Ranges
You can set the Zoom Ranges for elevation, distance, or time when you show the View Elevation Plot.

- Ranges for vertical distance are shown as you press up or down on the ROCKER.
- Ranges for linear distance are shown as you press left or right on the ROCKER.
- Ranges for time are shown for a time plot when you press left or right on the ROCKER.

Ranges for View Pressure Plot pressure values are shown when you press up or down on the ROCKER. Values for time and distance are shown in the same manner as for elevation plots.

To adjust zoom ranges:
1. Select the type of plot you want to view, and use the ROCKER to highlight Zoom Ranges.
2. Press ENTER to open the Zoom Ranges Page. Press up or down on the ROCKER to adjust the vertical distance or pressure and press left or right to adjust either the time or distance.
   Or
   Press up or down on the ROCKER with a plot shown to switch to the Zoom Range mode.
3. Press ENTER to return to the Plot Page.
**View Points**

You can scroll through a recorded elevation or pressure profile to view data for any point along the profile. When the red vertical and horizontal cross hairs are stopped at a location along the profile, the screen shows the elevation or pressure, time of day, and date the point was created.

To use the View Points option:
1. Press **MENU** to open the Altimeter Page Options Menu.
2. Select **View Pressure Plot** or **View Elevation Plot**, and press **ENTER** to open the Plot Page.
3. Press left or right on the **ROCKER** to scroll the cross hairs across the profile.

As the cross hairs move across the profile, the status window at the bottom of page changes to show the date, time, and altitude or pressure for the point at the intersection.

**View Points on Map**

You can view the location of points on the Map Page.

To view altitude points on the Map Page:
1. With the Altimeter Page open, use the **ROCKER** to move the red crosshairs to the point you want to view.
2. Press **ENTER** to show the altitude point on the map. The point is marked by the Map Pointer with location coordinates, the compass bearing and distance from your current location.

3. Press **QUIT** to close.

To reset the elevation data and max elevation fields:
1. Press **MENU** to open the Altimeter Page Options Menu.
3. Use the **ROCKER** to highlight the reset options, and then press **ENTER** to place a check mark in the box next to a selected item. You can reset Elevation Data (such as Minimum Elevation, all Ascent and Descent data) or only the Maximum Elevation.

**Reset**

You can reset the elevation data and the maximum elevation data by selecting these options from the Reset Page.
4. Highlight the **Apply** button, and press **ENTER** to reset the data fields. A confirmation message appears. You can reset or delete data for any of the other features represented on the list by placing a check mark in the box next to the item.

5. Highlight **OK**, and press **ENTER** to reset the selected options.

6. To reset all categories shown on the page, highlight **Select All**, and press **ENTER**.

**Calibrate Altimeter**

Because the GPSMAP 76CSx relies on the Barometric pressure to determine the elevation and the pressure at any given elevation can fluctuate, you can calibrate the altimeter to increase its accuracy. You must know the elevation or pressure at your current location.

**To manually calibrate the altimeter:**

1. Press **MENU** to open the Altimeter Page Options menu.

2. Highlight **Calibrate Altimeter**, and press **ENTER** to open the Calibration Page.

3. At the message “Do You Know The Correct Elevation?” highlight **Yes**, and press **ENTER**. Or
   If you do not know the elevation, select **No** to use pressure option. If you do not know the pressure, select **No** to use the default GPS elevation.

4. Use the **ROCKER** to enter the new elevation or pressure, then highlight **OK**, and press **ENTER** to return to the Altimeter Page.
Change Data Fields

The Altimeter Page has two data fields that you can customize the data shown. (For definitions, see Appendix page 98.)

To change a data field:
1. Press MENU to open the Altimeter Page Options Menu.
2. Highlight Change Data Fields, and press ENTER.
3. Use the ROCKER to highlight a data field, and press ENTER to view a list of available data field options.
4. Press up or down on the ROCKER to highlight an option, and press ENTER to place it in the data field.

Trip Computer Page

The Trip Computer Page provides you with a wide variety of travel data useful when navigating a long distance. It indicates your current speed, average speed, trip odometer, and many other helpful statistics useful for navigation.
You can customize the Trip Computer to meet your personal requirements, with list of data options to choose from. Selecting the type of data to appear is done in the same manner as for the similar data fields on the Map Page. (See page 54 for details.)

**Trip Computer Page Options Menu**

The following options are available:

- **Reset**—starts a new record of the trip computer.

  Before each trip, reset the trip information by highlighting **Reset** from the Options Menu, and pressing **ENTER**.

- **Big Numbers**—shows fewer fields with larger numbers.

- **Change Data Fields**—allows you to select the type of data you want to show in the data fields.

- **Restore Defaults**—allows you to return the page to factory settings.

The Reset Page offers options for resetting trip computer data, clearing the Track Log, and deleting Saved Tracks, Waypoints and Routes. This page allows you select individual items, select all, and deselect all. When your selections are made, highlight **Apply**, and press **ENTER**. Answer **OK** to the “The Data You Have Selected Will Be Permanently Deleted” prompt, and press **ENTER** to complete the reset.
Main Menu

The Main Menu contains settings and features not found on the main pages and submenus. The time and date are shown at the bottom of this page. The Main Menu is accessible from any page by pressing MENU twice. To select an item on the Main Menu, highlight the menu item, and press ENTER.

NOTE: If a page is added to the page sequence, the icon does not appear on the Main Menu.

Tracks

The Tracks Page shows the percentage of track memory used and a list of saved tracks. Use the Tracks Page to set up, clear, or save a track log, or activate the TracBack feature for the current track log. For more information, see page 30.

To access the Tracks Page:
1. Press MENU twice to open the Main Menu.
2. Select the Tracks icon, and press ENTER.
3. Highlight the Setup button, and press ENTER to open the Track Log Setup Page.

Tracks Page

Track Log Setup

Main Menu > Tracks
Track Page Options
The Track Log Setup Page contains the following options:

Wrap When Full—select this option to record over the oldest data with new data when the track log is full.

Record Method—select the method to use to record track points. Distance records track points after a specific distance is traveled. Time creates track points after the specified time has elapsed. Auto allows you to choose from five different intervals.

Interval—records a track according to the value in the interval field. The Interval field only appears when the Record Method is set to Distance or Time.

Color—select a color for the track when it appears on the map.

Route Page
Use the Routes page to create a sequence of intermediate waypoints that lead you to your final destination. For more information, see Creating and Using Routes beginning on page 31.

Highway Page
When navigating a route, the Highway Page guides you to the destination using data fields and a graphic highway. Up to four user selectable data fields show information such as speed, distance, or time to next point on the route. The list of data to display and the method of selection is the same as for the Compass Page and is explained in detail on page 54.

The Highway graphic provides visual guidance, taking you point by point to your final destination. Your course is represented by a center line down the middle of the graphic. As you move toward each point on your route, the graphic show the direction you should move to stay on course to the point. Five scale settings allow you to Zoom In or Out on the highway.
To navigate using the Highway Page:
1. While navigating, access the Highway Page from the Main Menu and observe your path of travel shown on the highway graphic.
2. Press **MENU** to open the Options Menu. You can do the following:
   Stop Navigation, Configure Data Fields from four to three with a destination guidance message, Change the Data Fields, or restore Defaults to factory settings.

Setup Menu
Use the Setup Menu to customize your GPSMAP 76CSx to your personal preferences.

To access the Setup Menu:
1. Press **MENU** twice to open the Main Menu.
2. Use the **ROCKER** to highlight the **Setup** icon, and press **ENTER**.

Each feature is explained in the following pages.
System Setup
Use the System Setup to control settings for GPS, WAAS, battery type, language, external power, and custom POI and proximity alarms.

To access the System Setup:
On the Setup Menu Page, highlight the System icon, and press ENTER.

- **GPS**—sets the unit to operate in Normal mode, Battery Saver mode, GPS Off, or Demo Mode.
- **WAAS**—allows you to enable or disable WAAS (page 97).
- **Battery Type**—allows you to select the battery type you are using (Alkaline or NiMH).
- **Text Language**—sets the unit’s on-screen language.
- **External Power Lost**—indicates whether the unit remains on (Stay On) or turns off (Turn Off) when external power is removed from the unit.
- **Proximity Alarms**—indicates whether custom POI and Proximity alarms are on or off.

System Setup Options Menu
The System Setup Options Menu contains Restore Defaults and Software Version. Use Restore Defaults to return the System Setup fields to their original values. **Software Version** shows the Software Version and Unit ID number.
Display Setup
Use the Display Setup to select a screen color scheme for day and night viewing. You can set the backlight timeout and the level of brightness. Reducing these values can significantly save on battery power.

To access the Display Setup:
On the Setup Menu, highlight the Display icon, and press ENTER.

- **Display Mode**—sets the display to Day, Night, or Auto mode. Select Auto to automatically switch from day to night at sunset and change back at sunrise.

- **Daytime Color Scheme/Nighttime Color Scheme**—select the color scheme to use when operating in Day or Night mode.

- **Backlight Timeout**—sets the backlight to stay on when it is turned on, or to time out after a selected period of time has elapsed when using the battery. The backlight stays on regardless of this setting when external power is used.

- **Backlight Level**—turns the backlight up or down. Press up on the ROCKER to increase the intensity or down to decrease.
**Interface Setup**

Use the Interface Setup to control the input/output format used when connecting your unit to external devices.

**To access the Interface Setup Page:**
On the Setup Menu Page, highlight the Interface icon, and press ENTER.

**Serial Data Format**—sets the data format to one of the following:

- **GARMIN**—the proprietary format used to exchange waypoint, route, track log and MapSource data with a PC.
- **NMEA In/NMEA Out**—Supports input and output of standard NMEA 0183 version 3.01 data.
- **TEXT OUT**—Allows ASCII text output of location and velocity information. No input.
- **NONE**—Provides no interfacing capabilities.

**Tones Setup**

Use the Tones Setup to customize sound tones made by the unit.

**To access the Tones Setup Page:**
1. On the Setup Menu Page, highlight the Tones icon, and press ENTER.
2. Select Message Beep, Key Beep, Power Beep, Turn Warning (Early), or Turn Warning (Final) field. Press ENTER.
3. As you move down the list each different tone sounds. Press enter to select a tone.
Page Sequence Setup
Use the Page Sequence Setup Page to change the order of the main pages, or add additional pages to the main page sequence when you press PAGE repeatedly.

NOTE: If you add a page to the main page sequence, it will no longer appear on the Main Menu.

To move, insert, or remove a page:
1. To move a page in the order, highlight the page, and press ENTER. Select Move, and press up or down on the ROCKER to move the page up or down in the list. Press ENTER when finished.
2. To insert a new page, highlight the page you want to insert before in the order, and press ENTER. Select Insert, then select a page from the list, and press ENTER.
3. To remove a page, highlight the page and press ENTER. Select Remove, and press ENTER.

Map Page Setup
The Map Page Setup information is located on page 38.
Routing Setup
Use the Routing Setup to customize the manner in which routing functions behave.

To access the Routing Setup Page:
1. On the Setup Menu, highlight the Routing icon, and press ENTER.
2. Highlight the Follow Road Options button to open the Follow Road Options Page where you can select additional route options.

Guidance Method—allows the unit to calculate routes based on:
- **Prompted**—you are prompted to select a preference before the route is calculated.
- **Follow Road**—increases the number of turns the route contains.
- **Off Road**—creates a direct line from your current location to your destination. This is useful when traveling outside of the detailed map coverage area or where no roads exist.

Follow Road Method—select how the unit calculates follow road routes based on:
- **Prompted**—you are prompted to select a preference before the route is calculated.
- **Faster Time**—routes calculated are faster to drive but might be longer in distance.
- **Shorter Distance**—routes calculated are shorter in distance but take more time to drive.

Next Turn Pop-up—turns the Next Turn pop-up window on or off.
**Follow Road Options**

**Off Route Recalculation**—allows you to set whether the unit prompts you when it is recalculating your route (Prompted) or recalculates automatically. You can turn off-route recalculation off.

**Calculation Method**—sets how the unit searches for the route.

- **Quickest Calculation**—calculates the route the quickest, but it might not produce the best route.
- **Quick Calculation**—takes more time to calculate but generates a better quality route.
- **Better Route**—generates an even better quality route but uses a longer calculation time.
- **Best Route**—generates the optimal route but takes the longest time to calculate.

**Calculate Routes For**—sets route calculation for the vehicle you are operating to optimize the route for your vehicle type, as some roads have vehicle-based restrictions.

**Avoid**—allows you to avoid certain road types and maneuvers on your route.

**Geocache Setup**

Use the Geocache Setup Page to find and record items hidden at geographic locations. See the Garmin Web site ([www.garmin.com](http://www.garmin.com)) for details and how to download geocache locations from the Internet.

**NOTE:** Before setting up and placing physical geocache stations on public or private land, be certain you are not in violation of ordinances or laws governing use of these properties.
To access the Geocache Setup Page:
On the Setup Menu Page, highlight the Geocache icon, and press ENTER.

Marine Setup
Use the Marine Setup Page to define marine alarm settings.

To access the Marine Setup Page:
On the Setup Menu Page, highlight the Marine icon, and press ENTER.

Anchor Drag Alarm—sets an alarm to sound when you exceed a specified drift distance.

Off Course Alarm—sets an alarm to sound when you are off your course.

Deep Water Alarm/Shallow Water Alarm—sets an alarm to sound when you enter an area of water that is too deep or too shallow.
Time Setup

Use the Time Setup Page to set the time format and zone, and set the unit to conform to Daylight Saving Time. The current time and date appear at the bottom of the page.

To access the Time Setup Page:
On the Setup Menu Page, highlight the Time icon, and press ENTER.

Time Zone—choose the time zone for your city so the GPSMAP 76CSx will show the correct local time. Select Other to enter a UTC Offset.

Units Setup

Use the Units Setup Page to customize the measurement units.

To access the Interface Setup Page:
On the Setup Menu Page, highlight the Units icon, and press ENTER.

Position Format—is the coordinates the system in which a given location reading is shown. The default format is latitude and longitude in degrees, minutes, and thousandths of a minute (hddd°mm.mmm).
Map Datum—describes geographic locations for surveying, mapping, and navigation and are not actual maps built in the unit. The default setting is WGS 84. The unit automatically chooses the best datum based on your chosen position format.

For more information about selecting Position Formats and Map Datums, see page 95 in the Appendix.

**WARNING:** Selecting the wrong map datum can result in substantial location errors. You should only change the position format if you are using a map or chart that specifies a different position format or map datum or want to use a format you are familiar with. When in doubt, use the default WGS 84 datum for best overall performance.

Distance/Speed—select the unit of measurement to show your speed and distance traveled.

Elevation (Vert. Speed)—select the unit of measurement (Feet (ft/min), Meters (m/min), or Meters (m/sec)) to show your altitude.

Depth—select the unit of measurement (Feet, Fathoms, or Meters) to show the depth.

Temperature—select the unit of measurement (Fahrenheit or Celsius) to show temperature.

Pressure—select the unit of measurement (Inches, Millibars, or Hectopascals) to show pressure.

**Heading Setup**
Use the Heading Setup Page to specify the type of heading display and the type of North reference used to calculate your heading.

**NOTE:** Unless you have a working knowledge of Headings and North Referencing, it is recommended that you use the default values.

**To access the Heading Setup Page:**
On the Setup Menu Page, highlight the Heading icon, and press ENTER.
Display—select the value (Cardinal Letters, Degrees, or Mils) to show your heading.

North Reference—provides headings based on a true north reference.

Switch to compass heading when below (for more than)—Select speed and time delay for electronic compass switching. See page 49.

Calibration Setup
The Calibration Setup Page allows you to calibrate both the Compass and Altimeter for increased accuracy in navigation.

To calibrate the compass:
1. On the Setup Menu Page, highlight the Calibration icon, and press ENTER. The “Which sensor would you like to calibrate?” message appears.
2. Highlight the Compass button, and press ENTER to open the Compass Calibration Page. Follow instructions on page 50.

To calibrate the Altimeter:
Select Altimeter and press ENTER to show the Altimeter Calibration Page and follow instructions on page 60.
Altimeter Setup
The Altimeter Setup Page allows you to set up the Altimeter to self-calibrate each time you turn on the unit, to function as a barometer, or to manually calibrate when you have accurate elevation or pressure data.

To set up the Altimeter:
1. On the Setup Menu Page, highlight the Altimeter icon, and press ENTER.
2. Highlight the Auto Calibration field, and press ENTER to select from On or Off. When On, elevation is corrected by GPS.
3. Highlight the Barometer Mode field, and press ENTER to select Variable Elevation (used when moving) or Fixed Elevation (used when stationary, allowing the Altimeter to function as a standard barometer). Trip data is not recorded when in Fixed Elevation mode.

To manually calibrate the Altimeter:
1. Highlight the Calibrate Altimeter button, and press ENTER. You can calibrate the Altimeter using one of three methods:
   - Enter the correct elevation: this requires a reliable source for determining the elevation for your current location.
   - Enter the correct pressure: this requires a reliable source to determine the accurate barometric pressure at your current location.
   - Allow the GPS Receiver to determine the elevation: the GPS receiver estimates the current elevation when determining its location. The accuracy varies depending on the position of satellites overhead. It is not as accurate as an elevation entered from a known source, but is sufficient for most navigation applications.
2. When finished, a Completed or Failed message will display.
Welcome Setup
Use the Welcome Setup Page to insert a message, such as owner information, that appears when you turn on your GPSMAP 76CSx.

Adding a welcome message

To access the Welcome Setup Page:
On the Setup Menu Page, highlight the Welcome Message icon, and press ENTER.

To add a welcome message:
1. Use the on-screen keypad and the ROCKER to enter your welcome message, and press ENTER.
2. When finished, highlight OK, and press ENTER to close.
3. Turn your unit off and then on again to view your Welcome message.
Jumpmaster

The Jumpmaster is designed for experienced skydivers. A jumpmaster is the individual in charge of a unit of skydivers coordinating a unit or cargo drop.

To access the Jumpmaster:
On the Setup Menu Page, highlight the Jumpmaster icon, and press ENTER.

The Jumpmaster follows military guidelines for calculating a jumpmaster’s high altitude release point (HARP). The Jumpmaster can auto-detect when you have jumped to begin navigating toward the desired impact point (DIP) using the barometer and electronic compass.

You can set the Jumpmaster to one of three types of jumps, HAHO, HALO, or Static. The jump type selected determines what additional setup information is required. For all jump types, altitudes (drop or opening) are measured in feet above ground level (AGL).

An impact point (DIP) must be set for HAHO jumps. This is a waypoint marked where you want to land. The drop altitude of at least 1,000 feet must be specified next. The Jumpmaster uses the drop altitude as the opening altitude for HAHO jumps. Common values for a drop altitude range from 12,000 to 24,000 feet AGL.

For HALO jumps, the required information is the same as the HAHO jump type, plus an opening altitude. This altitude may not be a larger value than
the drop altitude. Common values for an opening altitude range from 2,000 to 6,000 feet AGL.

Static jumps require a drop altitude of at least 1,000 feet to be specified. A constant wind speed and direction for the duration of the jump is assumed.

For HAHO and HALO jumps, wind speeds and directions can be entered for every 1,000 feet of canopy drift (CD) and every 2,000 feet of free fall drift (FFD). These wind speeds are entered on the Wind Setup page by selecting the Wind button.

**Forward Throw** and **Course to HARP** allow a user to determine the direction and magnitude the aircraft will carry the user after jumping and before free fall or canopy drift begins.

A number of additional constants are entered on the Constant Setup page by selecting **Constant**.

A check box at the bottom allows for auto-navigation to the DIP. If you want your GPSMAP76CSx to determine when you have jumped, this box should be checked. A message appears describing how to manually navigate the route.

Selecting the **Goto HARP** button begins the navigation process and takes you to Wind Setup. If Wind Setup information is missing, the GPSMAP 76CSx automatically sets up the route with the calculated HARP and the selected DIP before taking you to the Navigation page.

**Wind Setup**

Wind speeds and directions are added on the Wind Setup.
Wind speeds are measured in knots and directions are based on origination of wind. This information is usually based on data collected from National Oceanographic & Atmospheric Administration (NOAA) or by a drop zone support team leader (DZSTL) who monitors the course of a Pilot Balloon (PiBal) released from the ground at the DIP and wind streamers dropped from aircraft.

Jumpmaster is capable of handling doglegs in wind direction.

Select **Clear All** from the Options Menu of this page to clear the list of wind speeds and directions. Wind speeds and directions must be entered as a pair to be valid. Those pairs left as “_ _ _” will be ignored in calculations.

**Constant Setup**

The Constant Setup allows you to fine-tune certain aspects of the planned jump.

<table>
<thead>
<tr>
<th>Constant Setup</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Percent Max (%)</strong></td>
</tr>
<tr>
<td><strong>100%</strong></td>
</tr>
<tr>
<td><strong>K-freefall</strong></td>
</tr>
<tr>
<td><strong>3.0</strong></td>
</tr>
<tr>
<td><strong>K-open</strong></td>
</tr>
<tr>
<td><strong>25.0</strong></td>
</tr>
</tbody>
</table>

All jump types also can use a **Percent Max** to increase or decrease the range or their jump. Entries less than 100% decrease drift distance to the DIP while those greater than 100% increase drift distance. More experienced jumpmasters may choose to use smaller numbers while those less experienced may use larger numbers.
Safety Factor is used in HAHO jump types to allow a margin or error for a jump. Safety factors are usually integer values, no smaller than two, and are determined by the jumpmaster based on specifications for the jump.

A number of K values can be specified for different jumps. HAHO jumps use K-open while HALO jumps use K-open and K-freefall. Static jumps use K-static. K-values are based on the parachute canopy rating. Each parachute should be labeled with a K value. Common values may range from 3.0 for K-freefall to 48.0+ for HAHO K-open.

Select Restore Defaults from the Option Menu of this page to reset the values.

The following is a list of abbreviations and acronyms commonly used:

AGL—Above Ground Level Altitude measure
CD—Canopy Drift drift while parachute is open
DIP—Desired Impact Point location where landing should occur
DZ—Drop Zone area where landing should occur
DZSTL—Drop Zone Support Team Leader
LFFD—Free Fall Drift drift before parachute is open
HAHO—High Altitude High Opening type of jump
HALO—High Altitude Low Opening type of jump
HARP—High Altitude Release Point location jumper exits from aircraft
MSL—Mean Sea Level Altitude measure
PRP—Primary Release Point HARP plus forward throw of aircraft
The following list of additional terms are often used by jumpmasters:

**Drop Altitude**—altitude when jumpmaster exits aircraft, measured in AGL

**Forward Throw Horizontal**—distance traveled by due to aircraft speed

**K values**—wind drag values for parachutes

**Opening Altitude**—altitude when jumpmaster opens chute, measured in AGL

**Static Jump**—type of jump where wind speed and direction are assumed constant for the duration of the jump

**Proximity Waypoints**

Use the Proximity Waypoints Page to define an alarm circle around a stored waypoint location. The alarm circle can help you avoid restricted locations.

For more information on proximity waypoints see the “Proximity Waypoints” section on page 15.

**Calendar**

Use the Calendar to view sunrise/sunset times, moon phase, hunt and fish probabilities, and archived waypoints for activities you want to navigate to, for any given day and location.

**To use the Calendar:**

1. Press **MENU** twice to open the Main Menu.
2. Select the **Calendar** icon, and press **ENTER**. The Calendar Page opens with the current week shown.
3. Use the **ROCKER** to highlight the day you want to add waypoints to and press **ENTER** to show the page for that day.
4. Press **MENU** to open the Options Menu. Highlight **Add Point**, and press **ENTER** to open the Find Menu.

5. Select the type of point you want to place on the Day Page. (See page 16 for details on using the Find Features) With the information page for that point displayed, highlight the **Use** button, and press **ENTER** to place the point reference on the Day Page.

6. To remove points from a Day Page, press **MENU** to open the Options Menu. Select **Remove Points**, and press **ENTER** to display the Remove Points Options List.

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**Calculator**

Select the **Calculator** icon to use your GPSMAP 76CSx as a calculator. You can select either a Standard or Scientific calculator and Degrees or Radians from the Options Menu.

---

**Calculator Page**

**To use the Calculator:**

1. Press **MENU** twice to open the Main Menu.
2. Select the **Calculator** icon, and press **ENTER**.
3. Use the **ROCKER** and the **ENTER** key to operate the calculator.
Stopwatch
Select the **Stopwatch** icon to use the GPSMAP 76CSx as a stopwatch, which includes a lap timer. You can also have the unit record the lap time based on distance.

To access the stopwatch:
1. Press **MENU** twice to open the Main Menu.
2. Select the **Stopwatch** icon, and press **ENTER**.

To start and stop the stopwatch:
1. Highlight the **Start** button, and press **ENTER** to start the stopwatch.
2. Highlight the **Stop** button, and press **ENTER** to stop the stopwatch.

**To use the lap feature:**
With the stopwatch running, highlight the **Lap** button, and press **ENTER**.

**To reset the stopwatch:**
With the stopwatch stopped, highlight the **Reset** button, and press **ENTER**.

**To time lap by distance:**
Press **MENU** to open the Options Menu. Choose **Lap by Distance** and press **ENTER**. To return to **Lap by Button Press**, repeat these same steps.

**To set a lap distance value:**
1. Press **MENU** to open the Options Menu. Choose **Set Lap Distance** and press **ENTER**.
2. Use the **ROCKER** to highlight the field you want to change and press **ENTER**. Enter the new value, and press **ENTER**. When done, highlight **OK**, and press **ENTER**.
Sun and Moon
The Sun and Moon Page provides you with a graphic depiction of the sun and moon relative to the Earth. Sun and moon positions can be shown for any time, date, and location on Earth.

The Sun and Moon Page also shows sunrise, sunset, moonrise, and moonset times for a selected time, date, and location. Use the on-screen buttons to animate the movement of the sun and moon and stop at a given time or date.

To view sun and moon locations for a specified time, date, and location:
1. Press MENU twice to open the Main Menu.
2. Select the Sun & Moon icon, and press ENTER.
3. To view the predictions for a different date and time, highlight either the Date or Time field, and press ENTER to open the on-screen keypad.
4. To view the predictions for a different location, highlight the Location field, and press ENTER to open the New Location Options Menu and choose from the options shown.
Hunt and Fish

The Hunt and Fish Tables provide you with a listing of predicted best times for hunting and fishing for a chosen date and location.

To show hunting and fishing predictions for a specified date and location:
1. Press **MENU** twice to open the Main Menu.
2. Select the **Hunt & Fish** icon, and press **ENTER**. The current date and location appear in the date and location fields at the top of the page.
3. To view the predictions for a different date, highlight the **Date** field and press **ENTER** to open the on-screen keypad.
4. To view the predictions for a different location, highlight the **Location** field, and press **ENTER** to open the “New Location” Options Menu. Choose **Use Map** to select a point on the map using the pointer arrow. Press **ENTER** to show the table for that location. The Location field now states “Map Location”.
Choose **Use Find Menu** to select a point from the Find Feature database. Follow instructions for using the Find Feature beginning on page 16. When a find item is selected, highlight **Use** at the bottom of the item information page, and press **ENTER**. The Location field now shows the name of the find item.
5. To return to the current date, press **MENU**, and then **ENTER**.
Games Menu
The Games Menu contains six games (Memory Race, Virtual Maze, GekoSmak, Nibbons, Gekoids, and Beast Hunt) for entertainment. Some games use GPS as a virtual component in the play.

To select and play a game:
1. Press **MENU** twice to open the Main Menu
2. Select the **Games** icon, and press **ENTER**.
3. Use the **ROCKER** to highlight a game, and press **ENTER**. A brief description of each game appears.

**WARNING:** When playing any of the virtual games (where you are moving on a real playing field), use caution in selecting an area free of hazards such as holes, obstructions, or proximity to vehicular traffic. Playing these games can distract your attention from observing objects in your path.

4. Press **QUIT** and highlight **Yes** when prompted to stop playing.
Memory Race
This is a GPS game where the playing piece moves where you move. To win the Memory Race, remember which square has which symbol. Clear the board by matching the pairs of symbols. Travel to each square, highlight Open at the bottom of the screen, and press ENTER to view the symbol.

To adjust the grid or square size in custom mode:
1. Highlight the Grid Size or Square Size field, and press ENTER to select from the Options Menu lists. Press ENTER to make your selection.
2. Highlight Start, and press ENTER to begin the game.
3. Highlight Re-Center, and press ENTER to place yourself back in the middle of the game board.

Virtual Maze
This GPS-based game creates a virtual maze on the screen. You are placed at a central position in the maze and must explore the maze collecting flags. The lower right corner of the screen tells you how many flags remain. The lower left corner contains a timer showing the elapsed time. The difficulty level determines how much of the maze you can see at one time. Viewing less of the maze makes the game more difficult.

TIP: Press MENU, and select Cheat to start cheat mode. Enabling this mode penalizes you by five minutes and counts seconds by ten instead of two. Press ENTER to turn off cheat mode.
**GekoSmak**
GekoSmak is a GPS-based game that features you as the player piece. Periodically, Gekos appear on the screen. Before the Geko disappears, move toward the Geko and press **ENTER** to smack the Geko with a hammer. If you get the Geko, an “!” mark appears above the hammer, if not, only a hammer appears momentarily.

Field size choices are small, medium and large. Small fields are approximately 20 yards by 30 yards and large fields are 60 yards by 90 yards (about the size of an American football field).

The difficulty levels are: Easy, Normal and Hard. These levels determine how often Gekos appear. The pace quickens and values vary as difficulty levels increase.

---

**Nibbons**
In this GPS-based game, you must walk around the board collecting the numbers as they appear. As you walk, your “tail” grows. You can travel anywhere on the screen but you cannot cross your tail, or you will lose a life. As an added challenge, you must also avoid the skulls that chase after you.
Gekoids
This GPS-based game, which can be played without GPS on, is all about blasting gekoids. You are the ship, and you can survive only when you avoid getting hit. Before you begin to play, be sure to set your game settings. Orient Map “Northwards” rotates your ship in the center of the map. The map is stationary and north is always up. Orient Map “Ship Up” rotates the virtual world around your ship. Your ship always points Up. Press ENTER to start.

Beast Hunt
Although not a true GPS-based game, Beast Hunt requires some navigation skills. You must find and defeat the dragon with an arrow before it breathes fire at you or you fall into one of the pits while navigating a maze of platforms. Occasionally you are transported by slides that curve or move you diagonally. The game consists of several difficulty levels and an extended or limited visibility option. When you lose a game, the screen shows the layout of hazards, slides and warning platforms. A scoreboard keeps track of your wins and loses.

To play Beast Hunt:
1. Select Beast Hunt from the Games Menu, and press ENTER. The game overview page appears.
2. Press ENTER to open the Difficulty Level menu. Select a difficulty level (Trainee, Beginner, Expert, or Master), and press ENTER to open the Visibility menu.
3. Select a visibility option (Extended or Limited), and press ENTER to begin play.
4. Use the ROCKER to jump from platform to platform.
   When you land on a shaded platform, you are one or two steps from the dragon. A platform with a circle is next to a pit. If you fall into a pit, jump into the dragon or shoot an arrow that misses the dragon, you lose.
5. To defeat the dragon, press ENTER to place an arrow in a shaded platform. Use the ROCKER to point and press ENTER to shoot.
Specifications

Physical
Size: 6.2” H x 2.7” W x 1.4” D
Weight: 7.6 ounces (216 g) w/batteries installed.
Display: 1.5” W x 2.2” H, 256-color, high resolution, transreflective (160 x 240 pixels) with backlighting.
Case: Rugged, fully gasketed, water resistant, IEC-529, IPX7
Temp Range: 5 to 158°F (-15 to 70°C)*
*The temperature rating of the GPSMAP 76CSx may exceed the usable range of some batteries. Some batteries can rupture at high temperatures.

Performance
Receiver: WAAS enabled
Acquisition Times*: Approx. 1 second (warm start) Approx. 38 seconds (cold start) Approx. 45 seconds (factory reset)
*On average for a stationary receiver with an open sky view.
Update Rate: 1/second, continuous
Antenna: Built-in quad helix, remote antenna capability.
Compass: Accuracy; +/- 5 degrees¹, resolution; 1 degree

Accuracy
GPS: <10 meters (49 feet) 95% typical*
*Subject to accuracy degradation to 100m 2DRMS under the U.S. DoD imposed Selective Availability (SA) Program when activated.
DGPS: 3-5 meters (10-16 feet) 95% typical*
*WAAS accuracy in North America.
Velocity: 0.05 meter/sec steady state
Interfaces: NMEA 0183 version 2.3, and RS-232 and USB for PC interface

Power
Source: Two 1.5 volt AA batteries, USB power, 12 V Adapter Cable, or up to 36 VDC external power
Battery Life: Up to 18 hours (typical use)*
*Alkaline batteries lose a significant amount of their capacity as the temperature decreases. Use Lithium batteries when operating the GPSMAP 76CSx in below-freezing conditions. Extensive use of screen backlighting, electronic compass, and audible tones significantly reduce battery life.

Altimeter: Accuracy; +/- 10 feet*, resolution; 1 ft.
*Subject to proper user calibration.

Data Storage Life: Indefinite: no memory battery required
Map Storage: Dependant on the formatted capacity of the MicroSD Digital Card
(A small portion of the card capacity has been used in formatting the card for use.)
Interfacing
The following formats are supported for connection of external devices.

Garmin Proprietary Sentences—PGRME (estimated error), PGRMM (datum string), PGRMZ (altitude).

The NMEA 0183 version 3.01 interface format is supported by the GPSMAP 76CSx and enables the unit to drive up to three NMEA devices.

The following are the sentences for NMEA 0183, version 3.01 output:

Approved sentences—GPGGA, GPGLL, GPGSA, GPGSV, GPRMB, GPRMC, GPRTE, GPVTG, GPWPL, GPBOD, GPAPB

The USB Interface Cable provided with this unit allows you to connect your GPSMAP 76CSx to a PC-compatible computer’s USB port.
Optional Accessories

In addition to the standard accessories included with your GPSMAP 76CSx, several optional accessories are available to enhance the operation of the unit.

To obtain replacement parts and optional accessories, contact your Garmin Dealer, or Garmin Product Support in the U.S.A. at 800/800.1020, or Garmin Europe at 44/0870.8501241

**WARNING:** Garmin accessories are designed and tested specifically for use with Garmin products. Accessories offered by other manufacturers have not been tested or approved for use with Garmin products. Use of such accessories could cause damage to the GPSMAP 76CSx and void the terms of the warranty.

**Auto Navigation Kit**—provides the parts and map data to use the GPSMAP 76CSx in an automobile.

**Cigarette Lighter Adapter**—provides auxiliary power from an automobile cigarette lighter.

**GA 25MCX Remote GPS Antenna**—allows enhanced satellite acquisition.

**MapSource Software CD-ROMs**—offers several detailed mapping options that are compatible with the GPSMAP 76CSx. Visit to Garmin web site at http://garmin.com/products/gpsmap76csx/ for a list of compatible MapSource products.

**Serial Port PC Interface Cable with Auxiliary AC Power Supply**—provides connection to a PC for data transfer.

**Carrying Case**—protects the GPSMAP 76CSx when not in use.

**Marine Mount Kit**—Allows installation on a boat.

**Bicycle Handlebar Mount Kit**—Allows installation on bicycle handlebar.

**Battery Pack**—Rechargeable, NiMH, AA battery kit, USA receptacle.

For a complete list of available accessories for use with the GPSMAP 76CSx, see the Garmin web site: http://garmin.com/products/gpsmap76csx/
Connecting Your GPSMAP 76CSx to a Computer

You can connect your GPSMAP 76CSx to your computer using either a serial port or USB connector cable.

NOTE: Fully install the supplied MapSource program, Trip & Waypoint Manager, on your computer before connecting the USB cable to the computer.

To connect to your computer using a Serial Port connector:
1. Lift the Serial Port protective cover from the back of the GPSMAP 76CSx and insert the round indexed connector on the cable into the matching port.
2. Connect the remaining cable end to your PC Serial port or other appropriate device.
3. Set your GPSMAP 76CSx interface setting to the appropriate interface format. Refer to Interface Setup on page 68.

Information About USB Drivers
The USB drivers should have been automatically installed when you installed the MapSource program that came with your GPSMAP 76CSx. When you initially connect the GPSMAP 76CSx to a USB port, your computer might prompt you to locate the destination of the drivers for the device. You only need to install the drivers once. After the drivers are installed, your computer will always detect your GPSMAP 76CSx when it is connected. USB drivers might be updated periodically. You can find updates at www.garmin.com.
Map Datums and Location Formats

What Are Map Datums?
A datum is a mathematical model of the Earth that approximates the shape of the Earth and enables calculations to be carried out in a consistent and accurate manner. The datum is physically represented by a framework of ground monuments whose positions have been accurately measured and calculated on this reference surface. Lines of latitude and longitude on a map or chart are referenced to a specific map datum. Every chart has a map datum reference and the GPSMAP 76CSx can be set to match most of those commonly used.

If you are navigating and comparing the GPS coordinates to a map, chart, or other reference, set the map datum in the GPS unit to the same datum as the map to insure the most accurate navigation.

What is a Location Format?
Your current location can be viewed on the GPS in the form of coordinates. Because different maps and charts use different location formats, Garmin GPS units allow you to choose the correct coordinate system for the type of map you are using. The most common format is latitude and longitude, which is used by all Garmin units.

You can choose to change the location format to use with other coordinate systems. UTM/UPS (Universal Transverse Mercator/Universal Polar Stereographic) are easy-to-use metric grids that are found on most USGS topographic quadrangle maps. You can also select one of several other grids, including a user-definable grid (for the advanced user).
Loran TD Setup

To set up Loran TD from the Setup Menu:

1. Press MENU twice to open the Main Menu.
2. Use the ROCKER to highlight the Setup icon, and press ENTER to open the Setup Menu.
3. Use the ROCKER to highlight the Units icon and press ENTER to open the Units Setup Page.
4. Highlight the Position Format field and press ENTER to open the format list.
5. Highlight Loran TD, and press ENTER to open the Loran TD Page.
6. To change the settings of any of the five fields, highlight the field, press ENTER select/enter the setting, then press ENTER.
7. When finished, highlight Save, and press ENTER.

If the active GRI Chain, secondary stations, or offsets have been changed since the waypoint was created, the waypoint will now reference the active GRI-chain and secondary stations and adjust the TD coordinates accordingly. Remember that the GPSMAP 76CSx is not relying on the LORAN signal for navigation and actually converts the TD coordinate to a useful latitude and longitude coordinate before storing the waypoint to memory or using it for navigation. Because of this, the unit can navigate to a TD coordinate anywhere in the world.

What is WAAS/EGNOS?
The Wide Area Augmentation System (WAAS) is an FAA funded service to improve the overall integrity of the GPS signal for users in North America. In Europe, WAAS is referred to as EGNOS.

The system is made up of satellites and approximately 25 ground reference stations positioned across the United States that monitor GPS satellite data. Two master stations, located on either coast, collect data from the reference stations and create a GPS data correction message.

According to the FAA’s Web site, testing of WAAS in September 2002 confirmed an accuracy performance of 1-2 meters horizontal and 2-3 meters vertical throughout the majority of the continental United States and portions of Alaska.

WAAS is just one service provider that adheres to the MOPS (Minimum Operational Performance Standard) for global Satellite Based Augmentation Systems (SBAS). Eventually there will be several services of worldwide geostationary communication satellites that broadcast integrity information and differential correction data as transmitted by ground reference stations.

All SBAS systems use the same receiver frequency; therefore any operational SBAS system should be capable of providing your GPS unit with increased accuracy at any location in the world.

Currently, enabling WAAS on your GPSMAP 76CSx in regions that are not supported by ground stations, may not improve accuracy, even when receiving signals from an SBAS satellite. In fact it can degrade the accuracy to less than that provided by GPS satellites alone. For this reason, when you enable WAAS on your Garmin GPS receiver, the receiver automatically uses the method that achieves the best accuracy. To enable or disable WAAS, see page 66.

For more information, go to http://gps.faa.gov/Programs/WAAS/waas.htm.
Data Field Definitions

Accuracy GPS—The current accuracy of your GPS determined location.

Ambient Pressure—The uncalibrated current pressure.

Ascent - Average—The average vertical distance of ascents.

Ascent - Maximum—The Maximum ascent rate in feet/meters per minute.

Ascent - Total—The total distance ascended.

Barometer—The calibrated current pressure.

Bearing—The compass direction from your current position to a destination point.

Course—The desired path of travel from your starting point to your destination point.

Depth—The depth of water from sonar NMEA input.

Descent - Average—The average vertical distance of descent.

Descent - Maximum—The maximum descent rate in feet/meters per minute.

Descent - Total—The total distance descended.

Distance To Destination—The entire distance, from beginning to end, of a route.

Distance To Next—The distance to the next point on a route.

ETA At Destination—The estimated time of arrival at your destination, if you maintain your current speed and course.

ETA At Next—The estimated time of arrival at the next point on your route, if you maintain your current speed and course.

Elevation—The distance above or below mean sea level.

Elevation - Maximum—The highest elevation reached.

Elevation - Minimum—The lowest elevation reached.
Glide Ratio—The ratio of horizontal distance traveled to vertical distance.

Glide Ratio Dest—The glide ratio required to descend from your present position and elevation to the destination’s elevation.

Heading—Your direction of travel as indicated by a compass, in degrees or cardinal letters (N,S,E,W).

Location (lat/lon)—Your current location as latitude/longitude coordinates.

Location (selected)—Your current location described in the selected units of measure (other than lat/lon).

Odometer—The total distance you have traveled for all trips.

Off Course—The distance off your direct course line, right or left.

Pointer—The arrow that indicates the direction to travel to the next point on a route.

Speed—Your current vehicle speed can be measured in miles per hour, kilometers per hour or knots.

Speed - Maximum—The maximum speed you have attained since the Trip Computer was reset.

Speed - Moving Avg—The average speed while your vehicle was moving.

Speed - Overall Avg—The average speed determined by both the moving and stopped time and speed.

Sunrise—The time of sunrise for the current date and location.

Sunset—The time of sunset for the current date and location.

Time To Destination—The estimated time enroute to your final destination, if you maintain your current speed and course.

Time To Next—The estimated time enroute to the next point on your route, if you maintain your current speed and course.

Time of Day—The current time and date. It can be displayed in 12 or 24 hour format in local time or universal (UTC) time.
To Course—Your direction of travel to get back on course.

Trip Odometer—The running total of distance traveled since the Trip Computer was reset.

Trip Time - Moving—The length of time your vehicle has been in motion, since the Trip Computer was reset.

Trip Time - Stopped—The length of time that the vehicle has been stopped (stationary) while the unit was powered On and tracking your location (since the Trip Computer was reset).

Trip Time - Total—The total time the unit has been tracking since the Trip Computer was reset.

Turn—The direction of, and distance to, the next turn on an active route.

Velocity Made Good—The rate of closure on a destination based upon your current speed and course of travel.

Vertical Speed—The rate of altitude gain/loss over time.

Vertical Speed To Dest—The measurement of your rate of ascent/decent to a predetermined altitude.

Water Speed—The data acquired from measurement devices interfaced to the GPSMAP 76CS is used to calculate your current speed over water.

Water Temperature—The temperature of water at a measured depth using measurement devices interfaced to the GPSMAP 76CS.

Waypoint At Destination—The last point on a route, your destination.

Waypoint At Next—The next point on your route.
FCC Compliance

The GPSMAP 76CSx complies with Part 15 of the FCC interference limits for Class B digital devices FOR HOME OR OFFICE USE. These limits are designed to provide more reasonable protection against harmful interference in a residential installation, and are more stringent than “outdoor” requirements.

Operation of this device is subject to the following conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment generates, uses, and can radiate radio frequency energy and may cause harmful interference to radio communications if not installed and used in accordance with the instructions. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The GPSMAP 76CSx does not contain any user-serviceable parts. Repairs should only be made by an authorized Garmin service center. Unauthorized repairs or modifications could result in permanent damage to the equipment, and void your warranty and your authority to operate this device under Part 15 regulations.
Limited Warranty
This Garmin product is warranted to be free from defects in materials or workmanship for one year from the date of purchase. Within this period, Garmin will at its sole option repair or replace any components that fail in normal use. Such repairs or replacement will be made at no charge to the customer for parts or labor, provided that the customer shall be responsible for any transportation cost. This warranty does not cover failures due to abuse, misuse, accident or unauthorized alteration or repairs.

THE WARRANTIES AND REMEDIES CONTAINED HEREIN ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES EXPRESS OR IMPLIED OR STATUTORY, INCLUDING ANY LIABILITY ARISING UNDER ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, STATUTORY OR OTHERWISE. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, WHICH MAY VARY FROM STATE TO STATE.

IN NO EVENT SHALL GARMIN BE LIABLE FOR ANY INCIDENTAL, SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES, WHETHER RESULTING FROM THE USE, MISUSE, OR INABILITY TO USE THIS PRODUCT OR FROM DEFECTS IN THE PRODUCT. Some states do not allow the exclusion of incidental or consequential damages, so the above limitations may not apply to you.

Garmin retains the exclusive right to repair or replace the unit or software or offer a full refund of the purchase price at its sole discretion. SUCH REMEDY SHALL BE YOUR SOLE AND EXCLUSIVE REMEDY FOR ANY BREACH OF WARRANTY.

To obtain warranty service, contact your local Garmin authorized dealer or call Garmin Product Support for shipping instructions and an RMA tracking number. The unit should be securely packed with the tracking number clearly written on the outside of the package. The unit should then be sent, freight charges prepaid, to any Garmin warranty service station. A copy of the original sales receipt is required as the proof of purchase for warranty repairs.
Garmin International, Inc.  
1200 E 151st Street, Olathe, Kansas 66062 U.S.A.  
Tel. 913/397.8200  
Fax. 913/397.8282

Garmin (Europe) Ltd.  
Unit 5, The Quadrangle, Abbey Park Industrial Estate,  
Romsey, SO51 9DL U.K.  
Tel. 44/0870.8501241  
Fax 44/0870.8501251

**Online Auction Purchases:** Products sold through online auctions are not eligible for rebates or other special offers from Garmin. Online auction confirmations are not accepted for warranty verification. To obtain warranty service, an original or copy of the sales receipt from the original retailer is required. Garmin will not replace missing components from any package purchased through an online auction.

**International Purchases:** A separate warranty is provided by international distributors for units purchased outside the United States. This warranty is provided by the local in-country distributor and this distributor provides local service for your unit. Distributor warranties are only valid in the area of intended distribution. Units purchased in the United States or Canada must be returned to the Garmin service center in the United Kingdom, the United States, Canada, or Taiwan for service.

The Garmin GPSMAP 76CSx has no user-serviceable parts. Should you ever encounter a problem with your unit, please take it to an authorized Garmin dealer for repairs.

The GPSMAP 76CSx is fastened shut with screws. Any attempt to open the case to change or modify the unit in any way will void your warranty and may result in permanent damage to the equipment.
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