User Manual

Meridian Series of GPS Receivers

The Meridian GPS Receiver comes in four configurations: Meridian GPS, Meridian Gold, Meridian Marine and Meridian Platinum. The instructions included in this manual apply to all of the configurations.

The Meridian GPS has a 2MB built-in map, while the Meridian Gold, Marine and Platinum have a 16MB built-in map which provides more information and detail when compared to the Meridian GPS. Additionally the Meridian Marine includes marine data with its built-in map. The Meridian Platinum includes all the features of the Meridian Gold along with a 3-axis electronic compass and barometer.

All four receivers accept map data from any of the Magellan MapSend™ software products. Uploaded map data is stored on a Secure Digital memory card that can be installed in any Magellan Meridian GPS receiver.

MAGELLAN

WARNINGS

FOR SAFETY REASONS, THE DRIVER SHOULD NOT USE THIS DEVICE IN A VEHICLE WHILE IN MOTION TO ASSIST THE DRIVER TO NAVIGATE. Please do not try and change any settings on the Meridian while driving. Come to a complete stop or have your passenger make any changes. Taking your eyes off the road is dangerous and can result in an accident in which you or others could be injured.

USE GOOD JUDGEMENT

This product is an excellent navigation aid, but does not replace the need for careful orienteering and good judgement. Never rely solely on one device for navigating.

USE CARE

The Global Positioning System (GPS) is operated by the U.S. Government, which is solely responsible for the accuracy and maintenance of GPS.

The accuracy of position fixes can be affected by the periodic adjustments to GPS satellites made by the U.S. Government and is subject to change in accordance with the Department of Defense civil GPS user policy and the Federal Radionavigation Plan. Accuracy can also be affected by poor satellite geometry.

USE PROPER ACCESSORIES

Use only Magellan cables and antennas; the use of non-Magellan cables and antennas may severely degrade performance or damage the receiver, and will void the warranty.

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* * *

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EXCEPT AS SET FORTH IN ITEM 1 ABOVE, ALL OTHER EXPRESSED OR IMPLIED WARRANTIES, INCLUDING THOSE OF FITNESS FOR ANY PARTICULAR PURPOSE OR MERCHANTABILITY, ARE HEREBY DISCLAIMED AND IF APPLICABLE, IMPLIED WARRANTIES UNDER ARTICLE 35 OF THE UNITED NATIONS CONVENTION ON CONTRACTS FOR THE INTERNATIONAL SALE OF GOODS.

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The following are excluded from the warranty coverage:

(1) periodic maintenance and repair or replacement of parts due to normal wear and tear;

(2) batteries;

(3) finishes;

(4) installations or defects resulting from installation;

(5) any damage caused by (i) shipping, misuse, abuse, negligence, tampering, or improper use; (ii) disasters such as fire, flood, wind, and lightning; (iii) unauthorized attachments or modification;

(6) service performed or attempted by anyone other than an authorized Thales Navigations Service Center;

(7) any product, components or parts not manufactured by Thales Navigation,

(8) that the receiver will be free from any claim for infringement of any patent, trademark, copyright or other proprietary right, including trade secrets

(9) any damage due to accident, resulting from inaccurate satellite transmissions. Inaccurate transmissions can occur due to changes in the position, health or geometry of a satellite or modifications to the receiver that may be required due to any change in the GPS. (**Note**: Thales Navigation GPS receivers use GPS or GPS+GLONASS to obtain position, velocity and time information. GPS is operated by the U.S. Government and GLONASS is the Global Navigation Satellite System of the Russian Federation, which are solely responsible for the accuracy and maintenance of their systems. Certain conditions can cause inaccuracies which could require modifications to the receiver. Examples of such conditions include but are not limited to changes in the GPS or GLONASS transmission.).

Opening, dismantling or repairing of this product by anyone other than an authorized Thales Navigation Service Center will void this warranty.

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THIS WARRANTY DOES NOT AFFECT THE CONSUMER'S STATUTORY RIGHTS UNDER APPLICABLE LAWS IN FORCE IN THEIR LOCALITY, NOR THE CUSTOMER'S RIGHTS AGAINST THE DEALER ARISING FROM THEIR SALES/PURCHASE CONTRACT.

For further information concerning this limited warranty, please call or write:
Thales Navigation, Inc. - 960 Overland Court -
San Dimas, California, U.S.A. 91773
Phone: +1 909-394-5000,
Fax: +1 909-394-7050

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Introduction

Welcome and congratulations on your purchase of the Magellan Meridian GPS receiver. The Meridian has all the features that a sailor, fisherman, hiker, hunter, or any person involved with outdoor recreational activities has come to expect from a Magellan GPS receiver. In addition to these features, the Meridian offers the ability to display your location on detailed city maps providing you with a complete navigation tool that will last you for years to come.

Magellan has been a leader in the hand-held GPS market since introducing the world's first commercial, hand-held GPS receiver in 1989. Since that time Magellan has continued to equip the outdoorsman and consumer markets with navigational receivers, all the way from the first GPS receiver for under $100 to automotive receivers with turn-by-turn routing capabilities.

Before you begin, make sure that your package includes all of the items listed on the side panel of the box. If any of these items are missing or damaged, please contact Magellan at (866) 737-8604 for replacement items.

Magellan is a registered trademark name of Thales Navigation.

About This User Manual

This User Manual is divided into six chapters; *Introduction*, *Setting Up the Meridian, Basic Operation, Reference Guide, Frequently Asked Questions,* and *Appendix*. Each of these chapters will be explained briefly so you can tell which ones are right for you.

Setting Up the Meridian: This chapter will show you how to prepare the Meridian for use. Instructions will include how to install the batteries and how to set up the Meridian for first time use.

Basic Operation: This chapter provides you with step-by-step instructions for using the basic functions of the Meridian. This chapter will explain getting a position fix, viewing the Map screen, saving a waypoint and using a GOTO. Knowing these four basic steps will enable you to use the Meridian for most things you will want to do.

Reference Guide: Here you will find step-by-step instructions for all of the features found in the Meridian. This chapter is set up in a way that you can quickly and easily find the feature you are looking for.

Frequently Asked Questions: This chapter is aimed at answering some of the more basic questions that you may have about your Meridian, the global positioning system (GPS) and using the Meridian to its fullest. Experienced GPS users will probably not find any new information in this chapter but new GPS users may find many of their questions answered here.

Appendix: Sections containing information about connecting your Meridian to external devices, accessories, troubleshooting and specifications can be found in the Appendix.

Glossary: A glossary is provided explaining some of the terms and abbreviations found in the Meridian and this manual that may not be familiar to all users.

It's time to begin using your Meridian. Don't be overwhelmed with the size of the manual as we have tried to give enough information for the beginning user as well as provide the experienced users with the specifications and features that they are looking for.

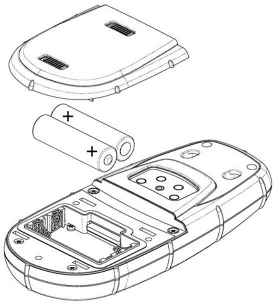
The most important thing to us is to be sure that you are completely satisfied with your Meridian and the accompanying documentation. If you have any ideas, suggestions or even a complaint, please pass them along to us through our web site (www.magellangps.com) or by mail.

Setting Up the Meridian

Setting up the Meridian is a simple two-step process: installing the batteries and initializing the Meridian.

Installing the Batteries

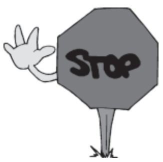
The Magellan Meridian uses two AA batteries that are installed from the back through the battery cover. You can expect to get up to 14 hours of usage on two AA batteries with the backlight turned off. Using the backlight will shorten the battery life significantly. With the backlight on continuously, you can expect to get approximately 6 hours of usage from two AA batteries.



To remove the battery cover, push the two buttons on the cover fully to the left and lift the battery cover away from the receiver. Insert the new batteries as shown, making sure that the batteries are installed with the correct polarity.

Replace the cover and push the two buttons fully to the right. Verify that the cover is locked in place.

How much time do I have to replace the batteries? *Any waypoints or routes you have created are stored in permanent memory. Present position and time data is not stored in permanent memory but will be held in memory for at least 12 hours without batteries installed.*



Always turn the Meridian off before removing the batteries or turning off external power. Failure to do so can cause loss or corruption of data.

Initialization for First Time Use

The Meridian will walk you through the process of setting up the receiver for first time use. This procedure is commonly referred to as "Initializing the Receiver." The purpose of this initializaion is to provide the Meridian with a general knowledge of its approximate location.

This may seem a little confusing at first as why does a device that is used to compute its position need to know where it's at? The Meridian uses information from the GPS satellites that orbit the earth and if the Meridian has an approximate idea as to its location, it will refer to the almanac it has in memory to select what satellites are overhead. From this information, the Meridian can then select the satellites that will give it the best information for computing its location. Under normal use, the Meridian will save the last position it calculated and use that position the next time it is turned on. However, when the Meridian is new (or when memory has been completely erased), the Meridian has no last position information. Thus, it can either start polling the satellites to see which ones are overhead or you can provide it with your approximate location allowing the Meridian to begin computing the initial position, known as "first fix."

> Note: You can skip the initialization process by pressing the [**NAV**] key anytime after selecting the language you want the Meridian to use and agreeing to the Warning Page. If the Meridian is able to collect satellite data (i.e., have a clear view of the sky) it will begin to self-initialize. This could take anywhere from 3 to 8 minutes to compute its initial position.

Follow these instructions to initialize the Meridian.

Step 1: Turn the Meridian On

Press [**PWR**]

The Meridian turns on and displays the start-up screen, followed by the language selection screen.

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Meridian
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N.America-1.05
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Step 2: Select Language

Use the Up/Down arrows to move the highlight to the language that you want the screens to be displayed in. With the desire language highlighted, press [**ENTER**].

Step 3: Accept Warnings and Begin Initialization

The Warning Screen is displayed. This screen will be displayed for 10 seconds and if the ENTER key has not been pressed, the Meridian will shut off.


WARNING!

All data is provided for reference only. You assume full responsibility and risk when using this device.

PRESS ENTER TO AGREE

If you understand and agree to the warning presented, press [**ENTER**].

The Meridian displays a message box indicating that the receiver needs to be initialized.


ATTENTION!

UNIT IS NOT INITIALIZED

PRESS ENTER TO INITIALIZE

Press [**ENTER**]

Step 4: Select Your Region and Area

Use the Up/Down arrows to highlight your general region.

Press [**ENTER**]

Use the Up/Down arrows to highlight your area.

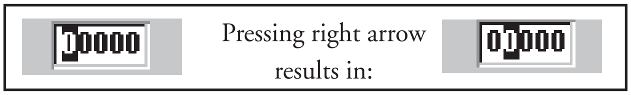
Press [**ENTER**]

Step 5: Enter the Time and Date

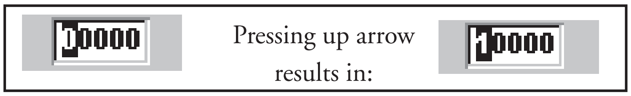
Entering Data. When entering data in the Meridian, you sometimes need to use the arrow keys to enter the values. The following diagram explains how the arrow keys are used.

Editing

◀▶ moves the cursor block left or right

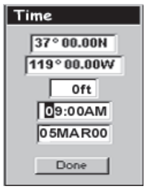


▲▼ increments the value up or down.



Enter Local Time. The cursor appears in the time field, waiting for you to input your local time. Set your local time using the arrow keys. Be sure that you set the AM/PM indicator.

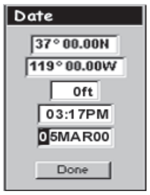
When the time is correct, press [**ENTER**].



Time
37° 00.00N
119° 00.00W
0ft
09:00AM
05MAR00
Done

Enter Date. The last piece of information needed is the date. Using the arrow keys, enter the present date.

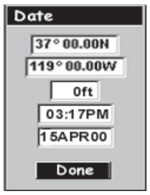
Press [**ENTER**].



Date
37° 00.00N
119° 00.00W
0ft
03:17PM
05MAR00
Done

All the information that the Meridian needs to speed up the process of computing its first fix has been entered and the Done button is highlighted.

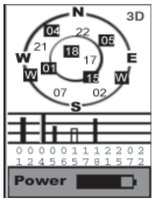
To complete the initialization process, press [**ENTER**].



Date
37° 00.00N
119° 00.00W
0ft
03:17PM
15APR00
Done

Step 6: Compute First Fix

The Satellite Status screen is displayed and the Meridian begins acquiring the data from the satellites. Once the first position fix has been computed you can begin using all of the functions found in your Meridian GPS receiver

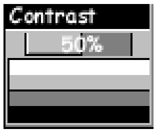


Optional Setup Functions

There are two additional options that you may want to set up prior to using your Meridian GPS receiver: Contrast and NAV Units.

Contrast. To set the contrast, press [**MENU**]. Use the Up/Down arrows to highlight "Contrast" and press [**ENTER**].

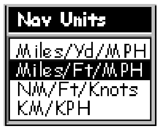
Use the Left/Right arrows to change the contrast to a level that provides the best display of the four bars displayed below the slider bar. When you are satisfied with the contrast, press [**ESC**].



NAV Units. You can select the units of measure that Meridian will use; Miles/Yards/MPH, Miles/Feet/MPH (default), Nautical Miles/Feet/Knots or Kilometers/Kilometers per hour.

To change the Nav Units of Measure press [**MENU**]. Use the Up/Down arrows to highlight "Setup" and press [**ENTER**]. Use the Up/Down Arrows to highlight "NAV Units" and press [**ENTER**].

Use the Up/Down arrows to highlight the unit of measure that you want and press [**ENTER**].



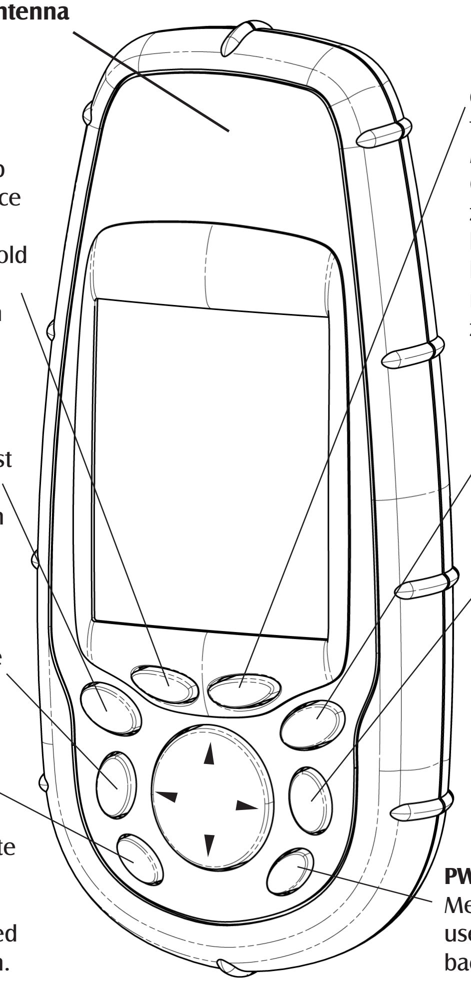
Press [**ESC**] to return to the last screen viewed.

This completes the set up for your Meridian GPS receiver. The next chapter will describe the basic operation and use of the Meridian as a navigation tool.

Basic Operation

For many of you this will be your first introduction into using a GPS receiver as a navigational tool. With all of the features and functions provided with the Meridian, it may seem a bit intimidating at first. Don't worry. There are only a few things you need to know to use the Meridian. They will be discussed here in detail. Other features and functions can be found in the Reference Section of the User Manual.

Meridian GPS Receiver



Quadrifilar Antenna

IN - Zooms in the display of the Map screen. (Press once to zoom in one level, press and hold to quickly move through the zoom levels.)

ESC- Cancels the operation of the last button pressed. Also scrolls through the NAV screens in reverse order.

NAV - Accesses the various navigation screens.

GOTO (dual function key) - GOTO is used to create a direct route to any waypoint stored in memory. This key is also used to MARK a position.

OUT - Zooms out the display of the Map screen. (Press once to zoom out one level, press and hold to quickly move through the zoom levels.)

ENTER - Confirms data entries or menu selections.

MENU - Accesses menus for displayed screens. Also provides access to waypoint, route and setup functions.

PWR- Turns the Meridian on/off. Also used to turn the display backlight on/off.

Turning Power On/Off

Tuning the Meridian On

PWR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Meridian
Come visit
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N.America-1.05
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WARNING!
All data is provided
for reference only.
You assume full
responsibility and
risk when using this
device.
PRESS ENTER
TO AGREE

ENTER

You have 10 seconds to press ENTER accepting the warning or the Meridian will shut off.

After accepting the warning information, the last navigation screen you were viewing will be displayed. If the last navigation screen view was the Map screen, the last zoom scale setting will be used.

Turning the Meridian Off

PWR

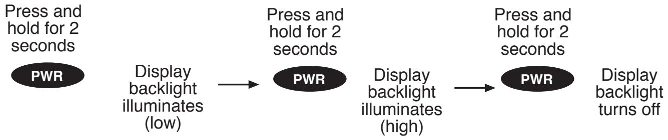

POWER DOWN
IN
5
SECONDS
PRESS
ESC KEY
TO CANCEL

Pressing the POWER button again will turn off the Meridian immediately.

Pressing ESC will cancel the power down sequence.

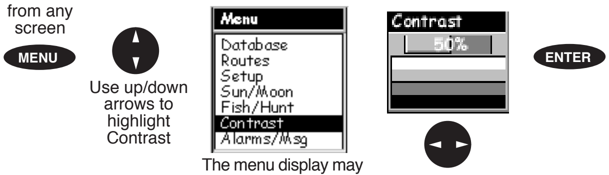
Turning the Backlight On/Off

The display backlight can be set to one of three levels (low, high or off).



The backlight causes severe drain on the batteries in the Meridian. To prevent accidently turning the backlight on and leaving it on, the Meridian will turn the backlight off when there have been no buttons pressed for 4 minutes. Pressing any button will turn the backlight back on in this instance. You can change the time delay for the backlight in Setup.

Adjusting the Contrast



from any screen

Use up/down arrows to highlight Contrast

The menu display may differ slightly depending upon which screen it was accessed from.

Use left/right arrows to adjust the contrast.

Getting a Position Fix

Because the Meridian attains information it needs from satellites orbiting the earth, the antenna needs to have a relatively unobstructed view of the sky. This allows the Meridian to choose from all satellites currently available.

If the view of the sky is poor due to large cliffs or buildings, heavy foliage or other obstructions, the satellite signals can be blocked and the receiver may take longer to compute a position fix.

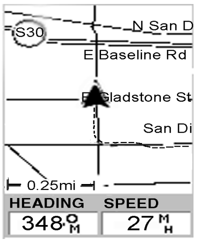
You can observe the signal strength and the satellites being used on the Satellite Status screen (described in the next section).

Holding the Meridian. The receiver is designed to fit comfortably in your hand. Hold the Meridian in the palm of your hand with the antenna pointing towards the sky.

Navigational Screens

The Meridian has nine navigation screens: Map screen, Compass screen, Large Data screen, two Position screens, Road screen, Data screen and Speedometer screen. There is also Sat Status screen which enables you to view how well the Meridian is receiving satellite information. They will be described briefly here. More detailed information on the different screens can be found in the Reference chapter of the User Manual.

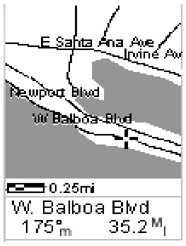
Map Screen The Map screen has two modes, position or cursor. In the position mode, your present position is indicated by the large arrow icon in the center of the display. If you are moving, the arrow will point in the direction that you are heading. At the bottom of the screen is the scale for the map displayed and two data fields that can be customized, or turned off, depending upon your needs.



HEADING 348°M
SPEED 27 MH

The present position icon will change to an hourglass when the Meridian is unable to compute a position fix due to poor signal reception.

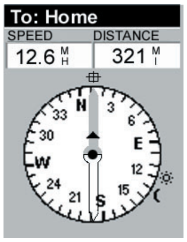
In the Cursor Mode, you are provided with a cursor that can be moved on the map. At the bottom of the display is the information for the position of the cursor relative to your present position. Also any points of interest that the cursor is over will be shown.



W. Balboa Blvd
175°m 35.2 MI

To access the Cursor Mode, press any arrow on the keypad. A crosshair appears that can be moved with the arrow keys.

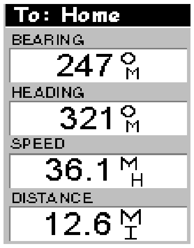
To return to the Position Mode, press [**ESC**]. The cursor will disappear and the present position icon will appear centered on the map.



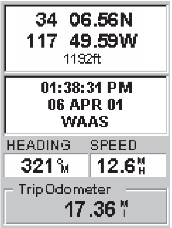
To: Home
SPEED 12.6 MH
DISTANCE 321 MI

Compass Screen. This is a handy screen to have at your fingertips while you are navigating. It is totally customizable to display the information that is useful to you. The lower portion of the Compass screen not only displays your heading in a graphical manner, but also displays the relationship of the sun, moon and your destination (if navigating on a route) to your heading.

Large Data Screen. The Large Data screen is similar to the Compass screen but here the compass has been removed to allow for large display of the navigation data. Ideal for when you have your Meridian mounted on the dashboard of a boat using the optional swivel mounting bracket. Even from a distance the customizable information can be read with ease.

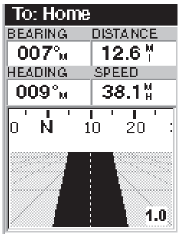


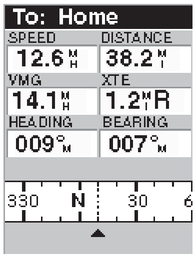
To: Home
BEARING 247°M
HEADING 321°M
SPEED 36.1 MH
DISTANCE 12.6 MI


34 06.56N
117 49.59W
1192ft
01:38:31 PM
06 APR 01
WAAS
HEADING 321°M
SPEED 12.6 MH
Trip Odometer 17.36 MI

Position Screens. The Position screens 1 and 2 display your present position using the coordinate systems that you have selected in Setup. This screen shows all of the basic position, time and satellite information. Additionally, current navigation information is shown in the bottom half of the screen.

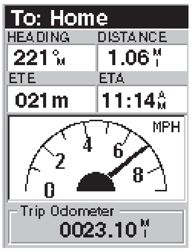
Road Screen. The Road screen presents your route as if you were travelling on a road. When you need to make a turn, the road will graphically display the turn and the direction. Waypoint and destination icons will be displayed relative to your position as they come into view. Above the road is a compass that displays your heading and above that are four customizable data fields.

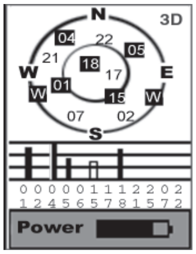

To: Home
BEARING 007°M
DISTANCE 12.6 MI
HEADING 009°M
SPEED 38.1 MH


To: Home
SPEED 12.6 MH
DISTANCE 38.2 MI
VMG 14.1 MH
XTE 1.2 MI R
HEADING 009°M
BEARING 007°M

Data Screen. When you need to see a lot of information in one place then you'll appreciate the Data screen. The Data screen provides you with six data fields and an active compass that is the same as the one used on the road screen. You have the option of customizing this screen by selecting what data is displayed in the upper six fields.

Speedometer Screen. The Speedometer screen displays your speed in a familiar graphical format. There are four additional data fields at the top of the display that can be customized to display the data that you need. The bottom of the screen contains a trip odometer that will record the distance travelled since the last time the odometer was reset.


To: Home
HEADING 221°M
DISTANCE 1.06 MI
ETE 021m
ETA 11:14 AM
Trip Odometer 0023.10 MI



Satellite Status Screen. The Sat Status screen provides you with a graphical display of the satellites in view and which ones are being used to compute the navigation data. The bar graph shows you the relative signal strength being received for each satellite. At the bottom of the display is an indication of the battery life remaining. When you are using external power, it will be indicated here as well.

Accessing the NAV Screens

The NAV key and the ESC key are used to step through the various navigation screens. If you are viewing one of the NAV screens, pressing NAV will take you to the next NAV screen in the list and pressing ESC will take you to the previous NAV screen. If you are not viewing one of the NAV screens, pressing NAV will return you to the last NAV screen viewed.

> NOTE: If you are inputting data, pressing NAV will return you to the last navigation screen but your inputs will not be saved.

Saving a Waypoint

First, a few simple definitions. A waypoint is any position on the globe that you have saved into memory. The act of saving the waypoint is commonly called "Marking." So when references are made to marking a waypoint, that simply means to save a position on the globe into memory.

The Meridian has a number of ways to perform this, but the most common are saving your present position, entering the coordinates of a position or saving the position of the cursor while viewing the Map screen. These waypoints can then later be used to create routes or as the destination of a GOTO. (A GOTO is a single leg route that is defined as a route from your present position to any waypoint. I am here and I want to GOTO there.)

Saving Your Present Position as a Waypoint

From any screen, press and hold [**GOTO**] for 2 seconds and the Mark screen is displayed.

The "Save" button is highlighted and you can press [**ENTER**] to save the waypoint using the default name and icon.

This will save your present position using a default name (WPTxxx) into memory.

Mark

Icon: ⌖

Name: WPT001

Location: 37°00.00N 119°00.00W

Elevation: 00000ft

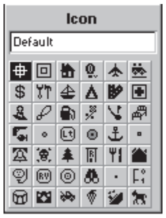
Message: CREATE MESSAGE?

Saving a Your Present Position as a Waypoint with a Custom Icon and Name

The above method is fine if you want to just save your position quickly, but it will be difficult to figure out later which waypoint this is from a list of waypoints named WPT001, WPT002, etc. For that reason, you may want to change the default name to one of your choosing. You can also select a different icon that will help you find the waypoint when you are using the map screen.

To do this, press and hold [**GOTO**] for 2 seconds just like you did before. Use the UP/DOWN arrows and notice that the highlight moves from field to field and then back to "Save."

Highlight the Icon field using the UP/DOWN arrows and press [**ENTER**].

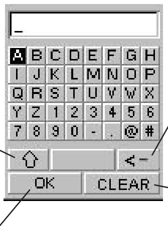


The Icon Select window is displayed. Use the arrow keypad to move from one icon to another with the name of the icon displayed at the top. As a reference tool, all of the icons and their names are listed in the Reference Chapter of the User Manual. When you have highlighted the icon you want to use, press [**ENTER**].

The cursor is now highlighting the Waypoint Name field. With the Name field highlighted, press [**ENTER**]. The input keyboard is displayed. The very top of the keyboard window shows you what field you are changing, in this case the Name field.

You can now use the arrow keypad to select the character you wish to enter. With the character highlighted, press [**ENTER**] and the character is appended to the name you are entering and displayed in the field above the keys. (Note: waypoint names can be up to 8 characters in length.)

Arrow keys – Moves the highlight from one key to the next.



Shifts from upper case to lower case or from lower case to upper case characters.

Backspace – Moves the cursor back one space, erasing the last character entered.

Clears the entire name.

Accepts the name and returns to the Mark screen.

When you have the name the way you want it, highlight "OK" and press [**ENTER**]. You are returned to the Mark screen with the new name displayed.

Adding a Message to a Waypoint

You can also add a message to waypoints you are creating. There is a memory limit however. You can save up to 500 user-entered waypoints in your Meridian but only 200 waypoint of those can have a message assigned to it.

Adding a message to a waypoint can assist you in identifying the waypoint. If this was a waypoint for a friend's house or business, you could add a phone number or any other information that you find useful.

> To add a message to a waypoint you are creating, highlight the Message field using the Up/Down arrows and press [ENTER]. The same keyboard that was used in entering a name is presented allowing you to enter a message. Using the same technique, you can enter a message up to 30 characters in length.

Is there a limit to the number of waypoints I can store in the Meridian? *Yes, the Meridian will store up to 500 user waypoints in memory. If you should ever get that many and need to input more, you will have to delete ones that you no longer need to make room.*

PRACTICE

Using the techniques described, go outside of your house and turn your Meridian on. If the Meridian has been previously initialized, you will soon be computing position fixes. Press the NAV key until you are viewing the Map screen. When the cursor icon changes from an hourglass to an arrow, the Meridian is computing position fixes. When the icon changes to an arrow, press and hold the [GOTO] button until the Mark screen is displayed. Change the waypoint name to "Home" and save the waypoint. We will use this waypoint in the next discussion on GOTO routes.

Using GOTO Routes

A GOTO route is simply a route with a start point (your present position) and a single destination point (a waypoint you select). All that is required to create a GOTO route is having the destination waypoint saved in memory. This waypoint can be one that you have saved earlier (which is stored in your User Waypoint List) or any of the landmarks that come with the Meridian in its built-in database.

In the previous section, you created a waypoint named “Home”. Now suppose you had gone some place else and you wanted your Meridian to guide you back. All you need do is to create a GOTO route and the Meridian will do the rest.

The uses for a GOTO route are endless. You could mark the position of your campsite and always find your way back. Or you could mark the location of a hot fishing spot you found, and next season come back to the exact same spot. Even mark the location of your car in a large parking lot and never have to worry about roaming endlessly looking for your car.

Creating a GOTO Route

Step 1: Accessing GOTO.

Press GOTO. The first thing that has to be done is to select the destination waypoint. This is done by accessing the waypoint database. The first screen is used to select the category of the database that the waypoint is in and how it will be found, alphabetically or nearest to your position, a city or other waypoints.

Find By
Alphabetical

Step 2: Select Category of Waypoints.

Use the Up/Down arrows to move the highlight through the list of waypoint categories. The first category in the list is “User” and these are all of the waypoints that you have entered into your Meridian receiver. The remaining categories are ones that have waypoints which have been preloaded into your Meridian and are stored in permanent memory. If you have the Meridian Marine, you will notice your list is considerably longer then the one shown here as you have additional marine waypoints preloaded into your Meridian. (For this example, select the “User” category.)

Step 3: Select Find By.

There are two options of "Find By": Alphabetical and Nearest To. Selecting Alphabetical will display all the waypoints in the category you select in alphabetic order. Nearest To will display a list of the 20 waypoints nearest to your position or waypoint you select in order of their distance away. This could be used to display the waypoints that are closest to your present position or display the airports that are closest to any city you select. For the purpose of this basic operation, only Alphabetical will be used. For details on Nearest To, see the *Reference* chapter in the User Manual.

Use the Left/Right arrow until "Alphabetical" is displayed in the Find By field.

Step 4: Select GOTO Destination Waypoint from the User Category.

With "User" highlighted and "Alphabetical" in the Find By field, press [**ENTER**]. A list of all the waypoints you have entered is displayed. Use the Up/Down arrows to highlight the desired destination, in this case "Home", and press [**ENTER**].

Bearing 085°M

Distance 12MI

You are returned to the last NAV screen viewed with some noticeable changes. If you are viewing the Map screen, you will now notice a thick line which is a graphical plot of the GOTO you just created. Other NAV screens, have changed the header bar to indicate that you are navigating to a destination. Press the NAV key until you are viewing the Compass screen. The header bar now displays "To: Home". Now all of the navigational information displayed is to provide you with the necessary details to get you to your destination, in this case "Home".

Alternate Step 4: Select GOTO Destination Waypoint from Other Categories.

As mentioned earlier, a GOTO can be to any waypoint in memory, either ones you have created or ones that have been loaded into the Meridian. When selecting waypoints other then "User", you are first presented with the keyboard display. The reason for this is there can be thousands of waypoints in the list and using the conventional "scrolling" could take quite a bit of time. By using the keyboard, you will be able to shorten the time by going to a specific point in the list.

(If you have been performing the keypresses as you are reading this, then you are probably viewing one of the NAV screens. In which case, you need to press [GOTO] to continue following along with the text. The first thing you will notice is an alert pop-up asking you if you want to clear the GOTO that is active. With "Yes" highlighted, press [ENTER] to continue.)

With "Cities" highlighted and "Alphabetical" in the Find By field, press [**ENTER**]. This is a slight variation of the keyboard you have already used. This time the "shift" and "backspace" keys have been replaced with "<-" (move cursor left) and "->" (move cursor right). What you want to do here is to begin typing the name of the city you are looking for.

AARONSBURG

For example, suppose your destination was to be Los Angeles. Use the keypad to highlight the letter "L" and press [**ENTER**]. Notice how the name is changed to the first city stored in the Meridian's memory that begins with the letter "L" and that the cursor has moved to the next letter in the city name. (You can move the cursor back if you made a mistake by highlighting the "<-" button on the keyboard and press [**ENTER**].)

Since we are looking for Los Angeles, we need to highlight the "O" next and press [**ENTER**]. Then the "S" and press [**ENTER**].

To add a space, highlight the "space bar" and press [**ENTER**]. (Also, you can use the "->" button to move the cursor to the right if you want to skip the letter the cursor is indicating.)

You don't need to spell out the entire word. The attempt here is to get close to the name so you won't need to scroll very far during the next step. As a guide, entering the first five letters should be sufficient. When you are satisfied with what you have entered, highlight "OK" and press [**ENTER**].

> Tip: There is a hidden shortcut that replaces highlighting "OK" and pressing [**ENTER**]. When you are satisfied that you have narrowed the search down and want to proceed to the list, press the [**IN**] key.

The list of all the waypoints for the category you selected, in this case cities, is displayed with the waypoint that was previously selected at the top of the list. Now just use the Up/Down arrows to highlight the waypoint you are looking for and press [**ENTER**].

For this example, you would highlight Los Angeles, CA and press **[ENTER].** The last viewed NAV screen is displayed and the Meridian will begin computing all of the necessary information needed to get you to your destination.

Navigating on a GOTO Route

The Meridian has the ability to provide you with the tools you'll need to navigate to your destination. You have the choice of three customizable screens that display the information that you need in the layout that you desire. Hikers may find the compass screen perfect for them while boaters may prefer the Large Data or Map screen. For you, the Map screen may have all the information you'll ever require.

Press [**NAV**] until the navigation screen you want is displayed.

If you selected the Map screen, you will see your position icon in the center of the screen with a line drawn for you on the map, graphically displaying the GOTO route.

Note that this route is line of sight (LOS) or "as the crow flies." The Meridian does not compute the route using streets and highways providing a turn-by-turn routing. You'll find very quickly that you can easily use the roads and highways displayed on the Map screen and compare them to the displayed route and get to your destination quickly.

GOTO routes are NOT saved in memory when the Meridian is turned off. If you are navigating on a GOTO route and you need to turn the Meridian off, you will need to reset the GOTO. Routes, however, are stored in memory. If you need to make a GOTO but expect to turn the Meridian off before arriving, you might consider making a 1-leg route using the route menu.

This concludes the basic operation of the Magellan Meridian, but there is so much more. More detail on the mentioned functions, and information on the functions not mentioned can be found in the *Reference* chapter of the User Manual.

Reference

Power / Backlight / Contrast

Turn the Meridian On — Applies power to the Meridian and displays last NAV screen viewed. During power-up the first screen shows the software and map database versions currently loaded in the Meridian. The second screen gives a warning that must be read. After reading the warning press [**ENTER**] to proceed. (If you do not press [**ENTER**], the Meridian will shut off after 10 seconds.)

PWR

MAGELLAN
Meridian
Come visit
us on the
World Wide Web
magellangps.com
V1.0 - WAAS Enabled
N.America-1.05
© 2001 Thales Navigation

WARNING!
All data is provided for reference only. You assume full responsibility and risk when using this device.
PRESS ENTER
TO AGREE

ENTER

You have 10 seconds to press ENTER accepting the warning or the Meridian will shut off.

Turn the Meridian Off — Shuts down the Meridian.

PWR

Press ESC key to abort before 5 seconds has elapsed.

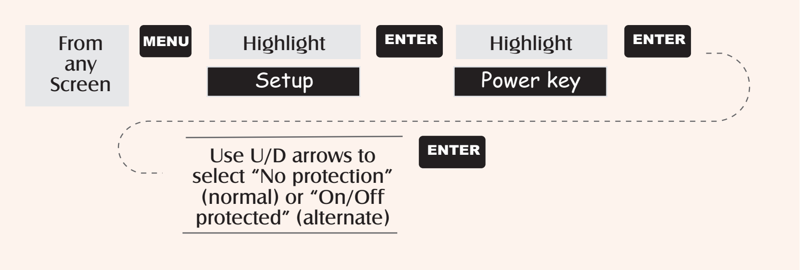
During the 5 second countdown, pressing the [**PWR**] key again will shut the Meridian off immediately.

Alternate PowerOn/Off — If you carry your Meridan in your pocket or other places where the [**PWR**] button can be accidently pressed, you may want to consider putting your Meridian in the Alternate On/Off mode.

Turning the Meridian On (Alternate) – You must press and hold the [**PWR**] button down until the first start-up screen is displayed. After the screen is displayed, the Meridian operates normally.

Turning the Meridian Off (Alternate) – To turn the Meridian off, press [**PWR**]. The countdown sequence will begin and you must press [**ENTER**] before the sequence ends. If you do not press [**ENTER**] before the sequence ends, the Meridian returns to the last screen displayed.

Selecting Alternate Power On/Off

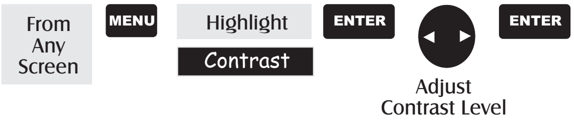


Using the Display Backlight — Illuminates the display for easier viewing in dark surroundings. Use only as needed as the backlight causes a large drain on the batteries. An automatic timer will turn the backlight off when a button has not been pressed for a selected duration. (See "Setup" to change the settings for the automaic timer).

Press and hold for
2 seconds

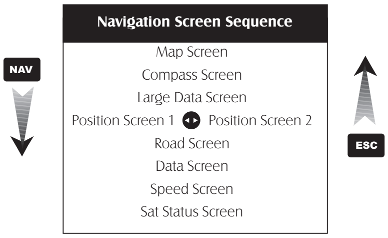
Button Sequence	
1st Press	Light On (low)
2nd Press	Light On (high)
3rd Press	Light Off

Adjusting the Display Contrast — Sets the contrast of the display for easy viewing in most lighting conditions.



Navigational Screens

Selecting NAV Screens — The [**NAV**] button provides a means of accessing the navigation screens. (Note: the sequence displayed is when all eight navigation screens are turned on. Screens turned off in Setup will not be displayed.)



Navigation Screen Sequence

Map Screen
Compass Screen
Large Data Screen
Position Screen 1 ◂▸ Position Screen 2
Road Screen
Data Screen
Speed Screen
Sat Status Screen

Returning to Last Viewed NAV Screen — Pressing the [**NAV**] button returns the Meridian to the last NAV Screen viewed.

NAV

(Note: if the NAV screen is pressed from a screen where data is being input, the data will not be saved.)

Map Screen

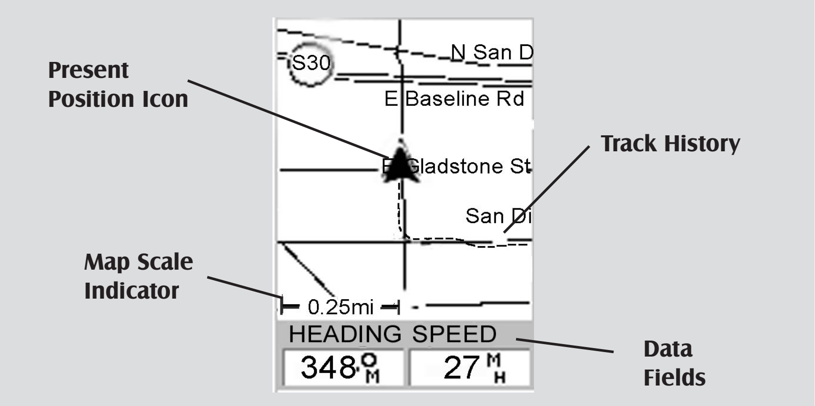
The Map screen is the very heart of the Meridian. The Map screen has two modes: Position and Cursor.

In the Position Mode, the map is centered around your present position with an arrow cursor indicating your position and points in the direction you are heading. A customizable area is presented at the bottom of the display.

In the Cursor Mode, you are provided with a cursor that can be moved on the map. At the bottom of the display is the information for the position of the cursor relative to your present position. Also any points of interest that the cursor is over will be shown.

To access the Cursor Mode, press any arrow on the keypad. A crosshair appears that can be moved with the arrow keys.

To return to the Position Mode, press [**ESC**]. The cursor will disappear and the present position icon will appear centered on the map.



Present Position Icon
The Present Position Icon graphically displays your position on the map. While you are moving it will point in the direction you are heading.

If the Meridian is not computing positions, this icon is replaced with an hourglass icon.

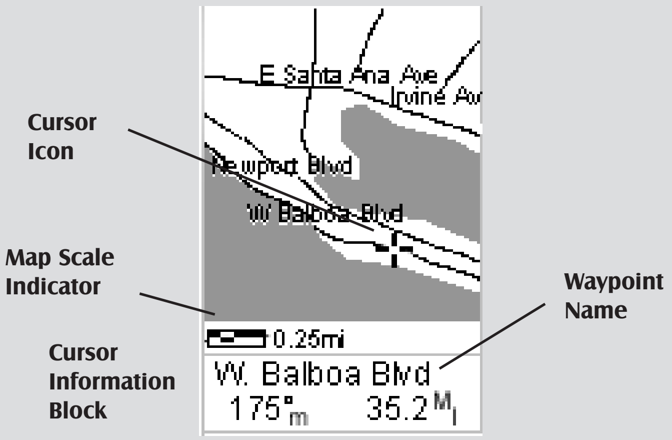
Map Scale Indicator
Provides the scale for the map. The number displayed represents approximately 1/4 of the screen's width. Scale can be changed with the IN and OUT buttons.

Track History
Dotted line on the map displays the history of where you have travelled since the last time you cleared the Track History (see Clear Memory in the Reference Chapter.)

Data Fields
These fields display navigational information for viewing on the Map screen. They are both customizable with 13 data types possible.

Both of the data fields can be turned on or off allowing more viewable map area.

Both features (customize and turning the data on/off) can be accessed from the MENU button.



Cursor Icon

The Cursor Icon pinpoints the location you have selected by using the arrow keys.

Map Scale Indicator

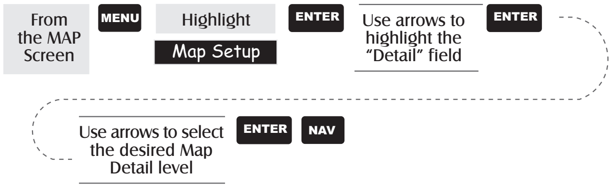
Provides the scale for the map. The number displayed represents approximately 1/4 of the screen's width. Scale can be changed with the IN and OUT buttons.

Waypoint Name

Whenever the cursor is over a map object, the name of the map object is displayed, otherwise the word "cursor" appears. The data shown in the information block is the heading and distance from your present position to the cursor.

Cursor Mode

Setting the Map Detail — The detail of the map can be set to highest, high, medium, low or lowest. This changes the zoom level that different map objects (cities, highways, labels, etc.) are displayed. If you have set a zoom level and the display is too cluttered, set the map detail to a lower level; conversely set it to a higher level to view more detail. The default is Medium.

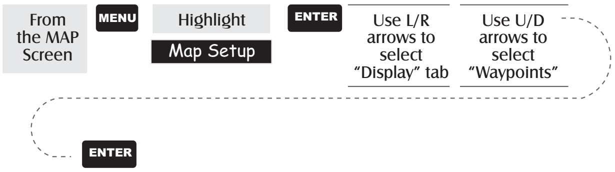


Customizing the Map Display

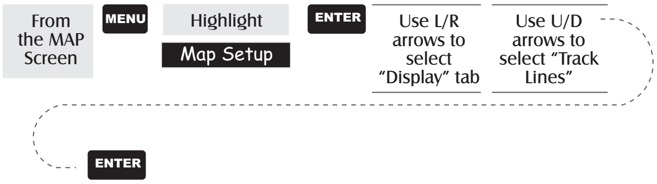
The Map screen can be customized for your individual needs and requirements. You can select what is being displayed on the map as well as what additional data will be presented at the bottom of the screen. Customization is broken into two parts; what items are displayed on the map and what data fields (if any) are displayed at the bottom of the screen.

Selecting Map Items

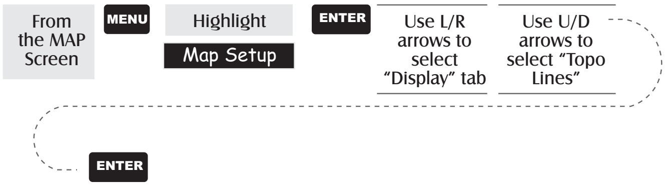
Turning On/Off Display Waypoints — Turns on or off the waypoints on the Map screen. Default is On.



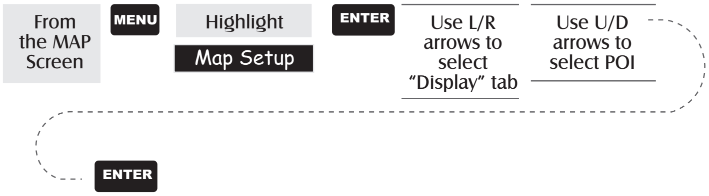
Turning On/Off Track Lines — As you move, your track history is normally displayed on the map screen represented by a dashed line. This function allows you to turn off or on these lines. Default is On.



Turning On/Off Topographic Lines — [Available only if a map has been uploaded from a Magellan MapSend Topo for the United States CD-ROM] This function will hide all topo lines and topographic information. Default is On.

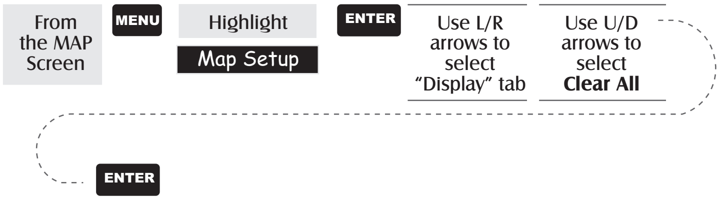


Turning On/Off Displayed POI's — [Available only if a map has been uploaded from a Magellan MapSend CD-ROM] Allows you to select which, if any, POIs that have been uploaded from a MapSend product to be displayed. Default is On.



Globally Turn Map Items On/Off — If you have uploaded map data from a MapSend product, you will notice that the list of POIs can be extremely lengthy. To aide you in the customization of the display you can turn everything on or off globally.

To turn off all map items, follow these instructions.



After you have turned off all of the map items, you can go back and just select the POIs that you want to view. Please note that this function will also turn off waypoints, track lines and, if applicable, topo lines. Be sure to turn these back on if you want to see them.

Inversely, to globally turn on all of the map items, follow the above steps but select "**Mark All**" instead of "**Clear All**".

Setting Up Map Data Fields — The following options are available ONLY if you are in the Position Mode of the Map screen. If you are in the cursor mode, press the [ESC] key and the display will snap back to the Position Mode with the arrow icon displaying your present postion. (If you are not clear on which mode you are in, the simpliest way to determine it is to see what cursor is displayed; an arrow indicates Position and a crosshair indicates Cursor. If you press the [ESC] key and the display changes to another NAV Screen you were in the Position Mode and you can press [NAV] to return to the map.

Turning Map Info On/Off — This option allows you to turn on or off the information field that is displayed on the Map screen. Turning this off allows for more of the map to be displayed. Default is "Show Map Info".

From the MAP Screen	MENU	Highlight Hide Map Info or Show Map Info	ENTER

When Map Info is hidden and the map is in the cursor mode, the bearing (BRG) and distance (DIS) to the cursor is shown in the bottom left corner of the map replacing the scale. (Note: if you have uploaded topographic information from Magellan's MapSend Topo for the United States CD-ROM, the elevation at the cursor's location is displayed, not the bearing and distance.) If the cursor happens to be on a map object, the name of the object is displayed.

Selecting the Map Information — This function allows you to select what map information is displayed at the bottom of the screen.

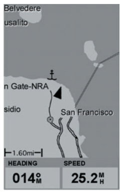
Note: If you select either Horizontal Profile or Terrain Projection and you do not have topographic information loaded a warning screen is displayed.

From the MAP Screen	MENU	Highlight Select Map Info	ENTER	Use U/D arrows to select desired information	ENTER

Two Data Fields Description — This option displays two boxes at the bottom of the map that can display data that you choose. Displaying these data fields is the default for the Meridian.

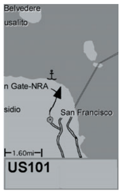
Possible Map Information Options

Two Data Fields



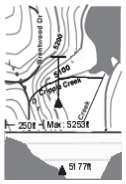
This option displays two fields at the bottom of the display. These fields are customizable and can be set to any of 13 different data options.

Street Info



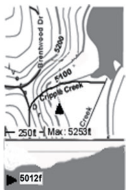
This option displays an information block at the bottom of the display showing the name of the street your present position or cursor is on. If in the cursor mode, the bearing and distance from your present position is displayed.

Horizontal Profile



(Available only with MapSend Topographic data loaded into the Meridian.) This displays an information box which graphically depicts the horizon in front of you. The displayed horizion is at the mark displayed on the display perpendicular to your track. Selecting this option automatically sets the display orientation to track up and works only in the Position Mode. Changing to the Cursor Mode will replace the horizontal profile with the cursor data.

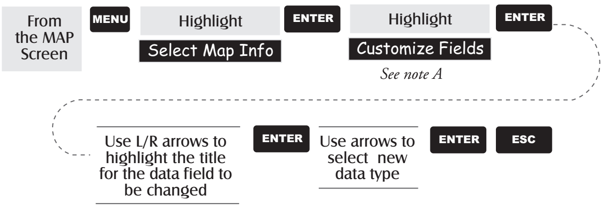
Terrain Projection



(Available only with MapSend Topographic data loaded into the Meridian.) This displays an information box which graphically depicts the terrain in front of you. The displayed terrain is approximately from your present position to the edge of the display. Selecting this option automatically sets the display orientation to track up and works only in the Position Mode. Changing to the Cursor Mode will replace the horizontal profile with the cursor data.

See text for additional information on these screens.

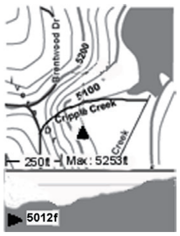
Changing the Data Fields — Allows you to change the data that is being displayed to 1 of 13 different data options (bearing, distance, speed, heading, VMG, CTS, ETA, ETE, XTE, turn, elevation, time, or date). Note: If you have selected Hide Map Info, this option will not be available in the menu. Also, you must have the Two Data Fields displayed on the Map screen to be able to customize them. Press [**ESC**] when you are done to leave the customize mode.



Note A: If there is not a menu option for "Customize Fields", highlight "Two Data Fields" and press ENTER. Then repeat this operation.

Street Information Description — This mode just displays the name of the street close to your present position.

Horizontal Profile Description — (This function requires that map data has been uploaded from Magellan MapSend Topo for the United States and that your present position as well as the projected horizon falls within the area uploaded.) This mode displays at the bottom of the Map screen a graphical representation of the horizon at a fixed distance from your present position. This fixed distance is equal to the map scale you have selected for the Map screen, so as you zoom in or out, the horizon displayed will change. In the Horizon Profile mode, you will also notice a line projected out from your present position icon to a shorter perpendicular line. The intersection of the two lines indicates the location on the map where the horizon is being computed.



You should note that when you select Horizontal Profile, your Map Orientation will change to "Track Up" so you may need to change that when you are done viewing the horizontal profile. If you change Orientation to something other then Track Up while viewing the Horizontal Profile, the default Two Data Fields is displayed. Changing the Orientation back to "Track Up" will revert back to the Horizontal Profile.

Available Data Options

Bearing This is the direction to your destination from your present position, in degrees, from North.

Distance This is distance (measured in the Nav Units selected in Setup) to your destination.

Speed This is the rate that you are travelling. The unit of measure is selected in Setup - Nav Units.

Heading This is the direction you are moving (measured in degrees). When the heading and bearing are the same, you are travelling on a direct line to your destination.

VMG (Velocity Made Good). This is the speed that you are getting closer to your destination. If the heading and bearing are the same, then VMG will be the same as Speed since all of the speed that you are travelling is being applied to arriving to your destination. However, if you are off course, your VMG will be less than the speed that you are travelling.

CTS (Course To Steer). This is the angle that you need to turn to put you back on course.

ETA (Estimated Time of Arrival). This the local time that you will arrive at your destination based on the rate of speed that you are moving to your destination. (See VMG.)

ETE (Estimated Time Enroute). This is how long, in time, that it will take you to arrive at your destination based upon your present speed to the destination.

XTE (Cross Track Error). XTE is the perpendicular distance from your present position to the course line you should be on to go to your destination.

Turn This is the direction you need to turn to put you on the shortest distance to your destination from your present position.

Elevation This is the distance above sea level that you are presently at.

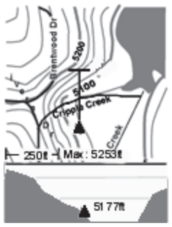
Time Local time.

Date Current date.

Also, you must be zoomed in to a scale of 0.80 miles or closer for the horizontal profile to be displayed. Zoom scales higher then 0.80 miles will cause the data displayed to change to the Two Data Fields and will change back to Horizontal Profile as you zoom in to 0.80 miles and below.

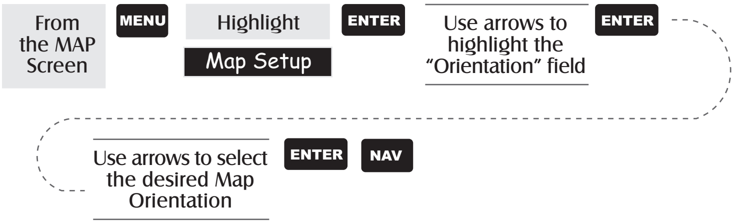
Terrain Projection Description — This feature allows you to view the terrain directly ahead of you graphically. It is computed from your present position and extends in a straight line to the top of your display. This provides you with instantaneous information on what terrain elevations are directly in front of you. Your present position and elevation are indicated at the left side of the display. The maximum elevation for the terrain ahead of you is displayed above the graph, next to the map scale indicator. (This function requires that map data has been uploaded from Magellan MapSend Topo for the United States and that your present position as well as the projected horizon falls within the area uploaded.)

Like Horizontal Profile, you must be zoomed in to a scale of 0.80 miles or closer for the projected terrain to be displayed. Zoom scales higher then 0.80 miles will cause the data displayed to change to the Two Data Fields and will change back to Terrain Projection as you zoom in to 0.80 miles and below.



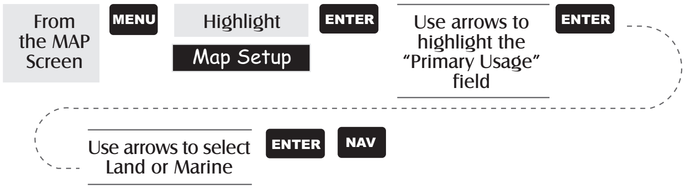
You should note that when you select Terrain Projection your Map Orientation will change to “Track Up” so you may need to change that when you are done viewing the projected terrain. If you change Orientation to something other then Track Up while viewing the Terrain Projection, the default Two Data Fields is displayed. Changing the Orientation back to “Track Up” will revert back to the projected terrain.

Changing the Map Orientation — You can change how the map is orientated on the screen to either North Up, Course Up or Track Up. Default is North Up.

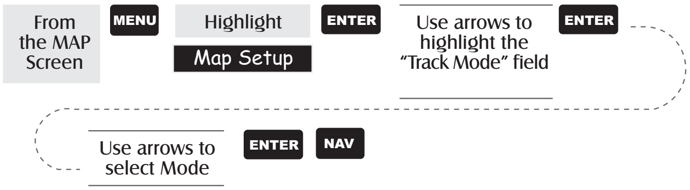


North Up	North is at the top of the screen.
Course Up	The heading of the active leg of the active route is at the top of the screen. If no route is active, North Up orientation is used until a route is activated.
Track Up	Your heading (i.e., the direction you are travelling) is at the top of the screen.

Selecting Primary Usage — The Meridian can be set to either Land or Marine Usage. When in Land (default), the map displays land areas in white and water areas as dark gray. For marine applications it may be desirable to reverse the display, showing water as white and land as dark gray. This will make reading some of the data information on the water easier.



Selecting Track Mode — Allows you to set how often the Meridian stores track points. Setting the mode to "OFF" stops the Meridian from saving any new track points. In "Auto" or "Auto Detailed" mode, the Meridian uses a method for track point storage that maximizes memory. Using Auto, you will see more points on and near turns and less points on straight stretches of the map. You also have the option of selecting fixed intervals for track point storage.


From the MAP Screen

Highlight Map Setup

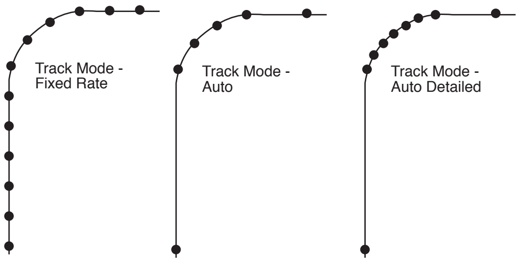
Use arrows to highlight the "Track Mode" field

Use arrows to select Mode

Setting the Track Mode to "OFF" will cause severe limitations to the ability of your Meridian to create a backtrack route. The same temporary waypoints used to create the displayed track are used to compute a backtrack route. Therefore, it is highly recommended that you use the "Auto" Track Mode whenever possible.

Auto vs. Auto Detailed. You will notice two of the options for the Track Mode are Auto (default) and Auto Detailed. Basically, both options behave the same. While your are travelling in a straight line, only a few track points are taken, but as you turn, the Meridian increases the rate of track points. This allows for a good representation of your track with minimal track points stored. Auto Detailed performs exactly the same as Auto, but has the base rate of track points saved increased. This allows a more detailed track then Auto to be taken, while at the same time saving memory over a fixed rate.

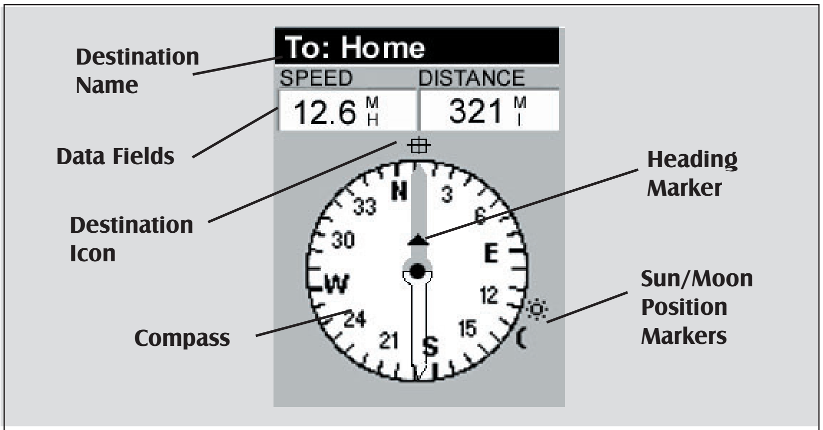
The following is an overly simplified diagram of the three track rate options. In most cases, Auto should meet all of your requirements but if you want more detail on turns and still not clutter memory with excessive track points, select Auto Detailed.



Compass Screen

The Compass Screen is the second in the list of navigation screens your Meridian can present. The two data fields at the top of the display can be customized to display different navigation data types.

Meridian Platinum users should consult the Meridian Platinum Supplement Manual for more information on the compass screen and the use of the Meridian Platinum's electronic compass.



To: Home

SPEED 12.6 MH

DISTANCE 321 MI

Destination Name

When you are navigating on a GOTO or multileg route, the name of the destination is placed here. For multileg routes, the name displayed is the name of the destination for the leg of the route you are presently navigating on.

Data Fields

Customizable data fields. The data displayed can be selected from 13 different options. Customizing is accessed through the MENU button. Some of the data displayed requires you to be moving to be computed, invalid data is indicated by dashes.

Compass/Heading Marker

Using the compass and the heading marker, you can view your heading information in a familiar manner. Note that you need to be moving for this data to be valid.

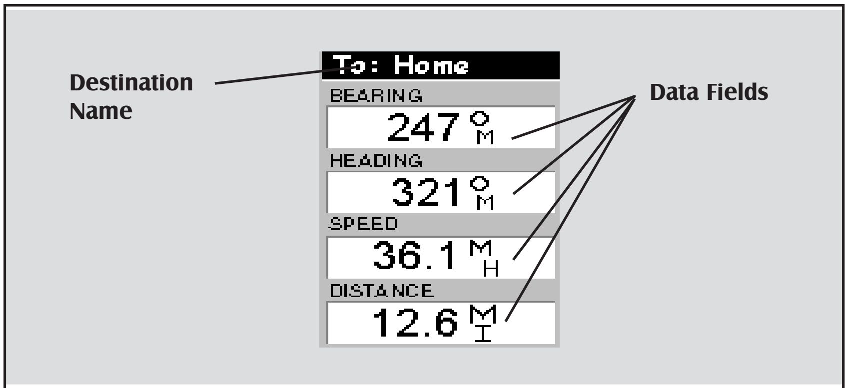
Destination Icon

When you are travelling on a route, an icon representing the destination of the leg or GOTO is displayed outside the compass. This provides you with the direction you need to head to arrive at the destination. When you are on course and heading straight for the destination, the destination icon will be lined up with the heading marker.

Customizing the Data Fields — Allows you to change the data that is being displayed to 1 of 13 data options (bearing, distance, speed, heading, VMG, CTS, ETA, ETE, XTE, turn, elevation, time, or date) for any of the two fields. (See explanation of Data Types in the Map Screen section.)

From the Compass Screen **MENU** Highlight Customize **ENTER** Use arrows to highlight the title for the data field to be changed **ENTER** Use arrows to select new data type **ENTER**

Large Data Screen



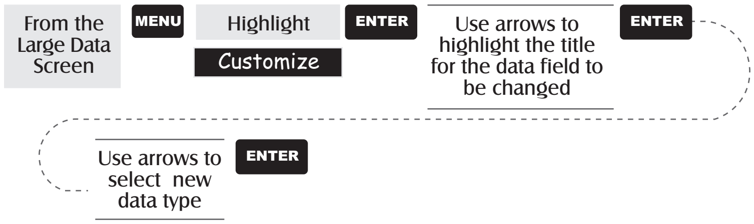
Destination Name

When you are navigating on a GOTO or multileg route, the name of the destination is placed here. For multileg routes, the name displayed is the name of the destination for the leg of the route you are presently navigating on.

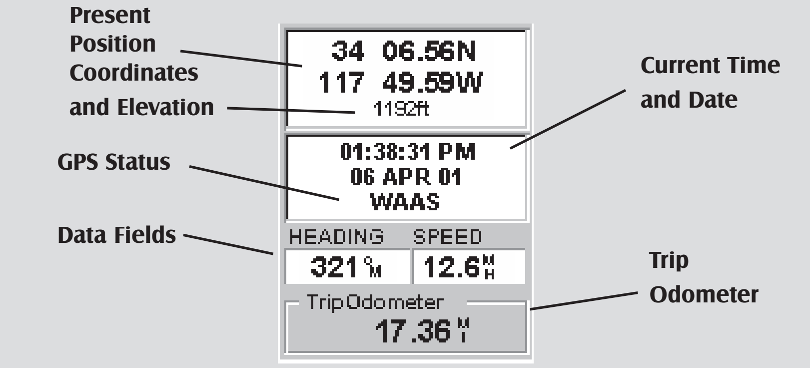
Data Fields

Customizable data fields. The data displayed can be selected from 13 different options. Customizing is accessed through the MENU button. Some of the data displayed requires you to be moving to be computed, invalid data is indicated by dashes.

Customizing the Data Fields — Allows you to change the data that is being displayed to 1 of 13 data options (bearing, distance, speed, heading, VMG, CTS, ETA, ETE, XTE, turn, elevation, time, or date) for any of the four fields. (See explanation of Data Types in the Map Screen section.)



Position Screen



Use the Left/Right Arrows to toggle between Position 1 and Position 2

Present Position Coordinates and Elevation Displays your present position in the coordinate system chosen in Setup. Also displays the elevation of the present position. If the Meridian is not computing position fixes, the last computed position is displayed.

GPS Status Provides information on the current status of the GPS receiver portion of the Meridian.

Data Fields Customizable data fields. The data displayed can be selected from 13 different options. Customizing is accessed through the MENU button. Some of the data displayed requires you to be moving to be computed, invalid data is indicated by dashes.

Trip Odometer The odometer performs like the odometer in your car. It can be reset through the MENU button.

The Position screens 1 and 2 simply display your present position using the coordinate systems that you have selected in Setup. The Position 1 screen shows all of the basic position, time and satellite information, all on one screen. In addition, current navigation information is shown on the bottom half of the screen.

GPS Status Messages — Messages indicating the status of the GPS receiver section of the Meridian are displayed on the Position screen.

Message	Description
Searching - 1st sat	Searching for 1st satellite.
Searching - 2nd sat	1st satellite found; searching for 2nd satellite
Searching - 3rd sat	Two satellites are being tracked and searching for a third.
Searching - 4th sat	Three satellites are being tracked and searching for the fourth.
Collecting Data	All satellites needed for position fix are being tracked and position is being computed.
Averaging	Meridian is computing fixes; speed is near 0.0 so position is being averaged.
EPE xxft	Estimated Position Error in feet. Meridian is computing fixes while moving.
DGPS	Computed fixes are being differentially corrected.

Since the Meridian is a 12-channel receiver, once the first satellite is found, finding the remaining satellites and computing a fix may take only a few seconds.

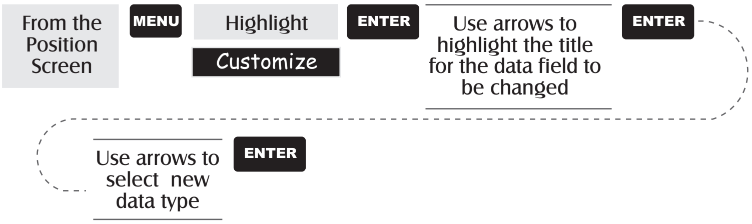
Selecting the Position Screen — Allows you to toggle between the two Position screens. This allows the same position to be displayed in different coordinate systems. This is useful when comparing navigation data between devices and charts that use different coordinate systems.

The screen viewed can be changed by pressing the Left or Right arrows while viewing the Position screen.

You can change the coordinate system displayed by following the instructions in *Setup - Selecting the Coordinate System.*

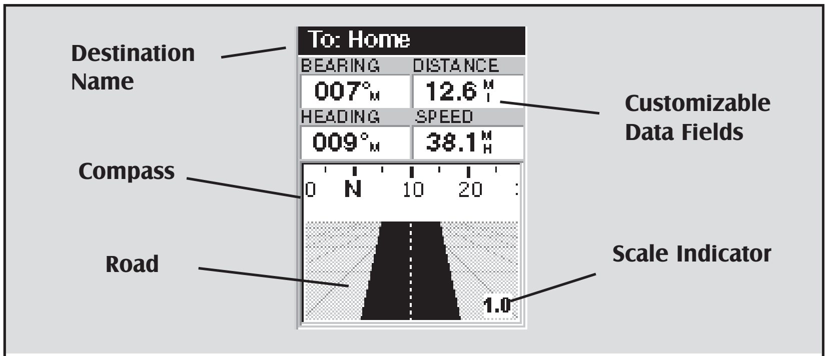
Resetting the Trip Odometer — Resets the trip odometer to 0000.00.

Customizing the Data Fields — Allows you to change the data that is being displayed to 1 of 13 data options (bearing, distance, speed, heading, VMG, CTS, ETA, ETE, XTE, turn, elevation, time, or date) for any of the two fields. (See explanation of Data Types in the Map Screen section.)



Selecting Coordinate System, Map Datum and Elevation Mode — Allows you to change the coordinate system, map datum and elevation mode for the primary and secondary Position Screens. These functions perform identically to the same functions described in the *Setup* section of this manual. To access these functions from the Position screen, press [**MENU**], select the option, press [**ENTER**] and follow the prompts.

Road Screen



Destination Name
When you are navigating on a GOTO or multileg route, the name of the destination is placed here. For multileg routes, the name displayed is the name of the destination for the leg of the route you are presently navigating on.

Data Fields
Customizable data fields. The data displayed can be selected from 13 different options.

Compass
Displays your heading in a familiar compass format.

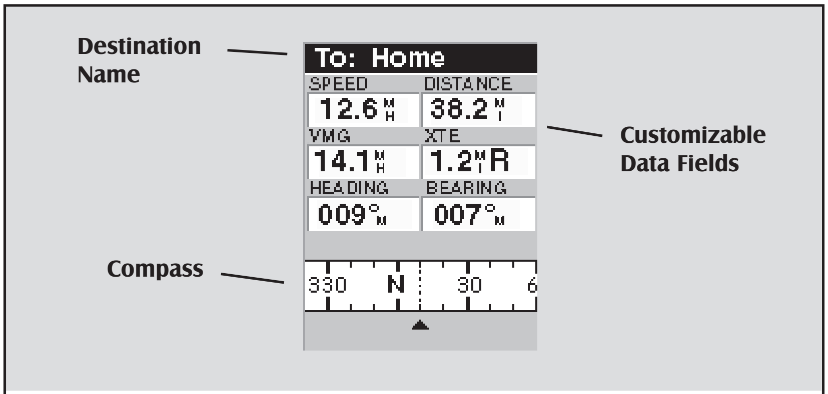
Road
This graphically displays the route (GOTO or other routes) that is active. As you move left or right of your intended track, the road will move on the display indicating which way you need to steer to get back on track. Ideally, the road would be centered on the display. Also, you will see upcoming turns in advance allowing you to make necessary preparations.

Scale Indicator
Use Zoom In/Out to change the scale.

Customizing the Data Fields — Allows you to change the data that is being displayed to 1 of 13 data options (bearing, distance, speed, heading, VMG, CTS, ETA, ETE, XTE, turn, elevation, time, or date) for any of the four fields. (See explanation of Data Types in the Map Screen section.)

From the Road Screen
MENU
Highlight **Customize**
ENTER
Use arrows to highlight the title for the data field to be changed
ENTER
Use arrows to select new data type
ENTER

Data Screen



To: Home
SPEED 12.6 MH
DISTANCE 38.2 MI
VMG 14.1 MH
XTE 1.2 MI R
HEADING 009° M
BEARING 007° M

Destination Name

When you are navigating on a GOTO or multileg route, the name of the destination is placed here. For multileg routes, the name displayed is the name of the destination for the leg of the route you are presently navigating on.

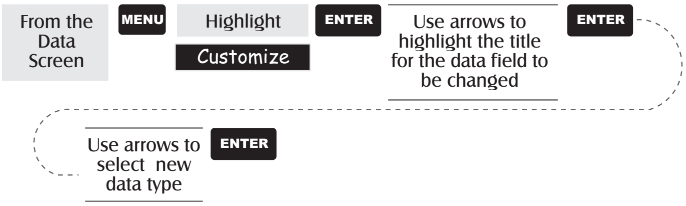
Data Fields

Customizable data fields. The data displayed can be selected from 13 different options. Customizing is accessed through the MENU button. Some of the data displayed requires you to be moving to be computed, invalid data is indicated by dashes.

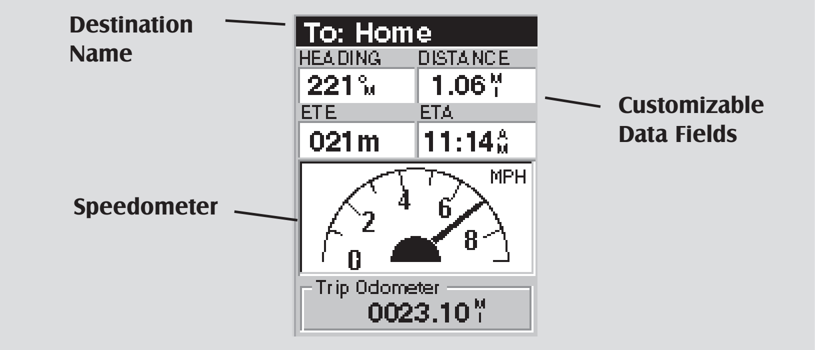
Compass

Displays your heading in a familiar compass format.

Customizing the Data Fields — Allows you to change the data that is being displayed to 1 of 13 data options (bearing, distance, speed, heading, VMG, CTS, ETA, ETE, XTE, turn, elevation, time, or date) for any of the six fields. (See explanation of Data Types in the Map Screen section.)



Speed Screen



To: Home
HEADING 221°M
DISTANCE 1.06 MI
ETE 021m
ETA 11:14 AM
MPH
Trip Odometer 0023.10 MI

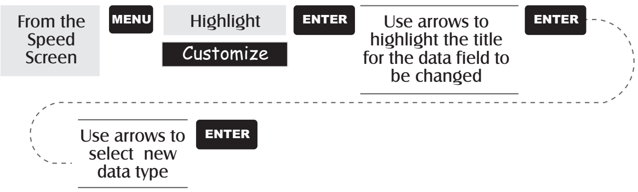
Destination Name
When you are navigating on a GOTO or multileg route, the name of the destination is placed here. For multileg routes, the name displayed is the name of the destination for the leg of the route you are presently navigating on.

Data Fields
The data displayed can be selected from 13 different options. Customizing is accessed through the MENU button. Some of the data displayed requires you to be moving to be computed, invalid data is indicated by dashes.

Speedometer
Displays your speed using a familiar speedometer display. The scale of the speedometer is not adjustable but will change dynamically to best display your speed.

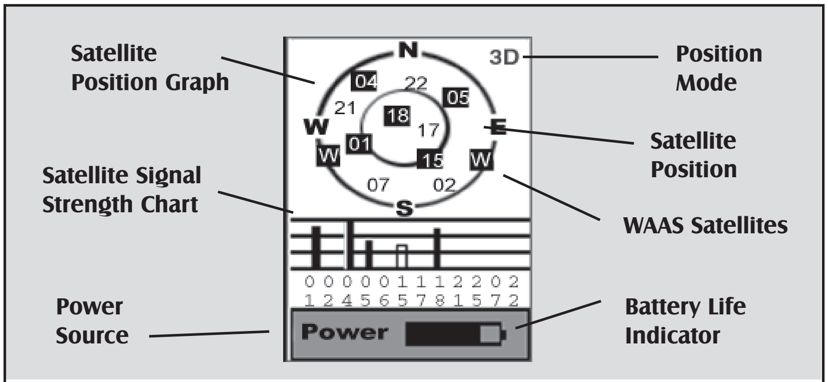
Trip Odometer
It can be reset using the MENU button.

Customizing the Data Fields — Allows you to change the data that is being displayed to 1 of 13 data options (bearing, distance, speed, heading, VMG, CTS, ETA, ETE, XTE, turn, elevation, time, or date) for any of the four fields. (See explanation of Data Types in the Map Screen section.)



Satellite Status Screen

The Satellite Status screen visually displays the satellites being used and the strength of the received signal. Additionally, this screen displays the power source you are connected to and, if internal batteries, how much battery life is remaining. This is a very handy screen when you wish to view how well your Meridian is tracking satellites.



Satellite Position Graph
The two circles indicate satellite elevation as seen from your current position; the outer circle represents the horizon and the inner circle represents 45° from the horizon. The center of the circle is 90° from the horizon, or directly overhead.

Satellite Signal Strength Chart
Clear bar indicates that the Meridian is starting to get information from the satellite. Satellites that are being used to compute your position are shown with solid bars. The height of the bar indicates the relative signal strength.

Power Source
Indicates the source of power being used — POWER (Internal Battery) or POWER EXTERNAL.

Position Mode
3D - position computed is 3-dimensional (elevation is being computed).
2D - position computed is 2-dimensional (elevation is not being computed).
Blank - Meridian is not computing a position fix.

Satellite Position
Where the satellite is located relative to your position.