

NavTalk®

GSM Phone/GPS



owner's
manual
and
reference
guide

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Thank you for choosing the GARMIN NavTalk GSM Phone/GPS. This product is designed for easy operation and to provide years of reliable service.

Please take the time to read this Owner's Manual, and learn the operation of your new phone. This will help ensure that you get the most from the unit.

If you encounter a problem, or just have a question, contact our European Product Support Department, GARMIN (Europe) Ltd. at 44/0870-8501241.

In the U.S.A.: contact our Product Support Department at 913-397-8200 or 800-800-1020, Monday — Friday 8:00 A.M. to 5:00 P.M. Central Time, or by e-mail at sales@garmin.com.

Section 1

Introduction

Customer Service Product Registration

Help us better support you by completing our on-line registration today! Have the serial number of your NavTalk handy and connect to our web site (www.garmin.com). Look for the Product Registration link on the Home page.

Software License Agreement

BY USING THE NavTalk GSM Phone/GPS, 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.

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Section 1

Introduction

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.

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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 Customer Service at one of the numbers shown below, 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.

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.

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Section 1

Introduction

Exposure to Radio Frequency Signals - Your wireless hand-held portable telephone is a low power radio transmitter and receiver. When it is ON, it receives and also sends out radio frequency (RF) signals. The NavTalk GSM Wireless Telephone/GPS Receiver meets compliance requirements for maximum Specific Absorption Rate of radio wave emissions for the limit given.

Efficient Phone Operation Guidelines - Do not touch the antenna unnecessarily when the phone is in operation. Contact with the antenna affects reception and transmission quality causing the phone to operate at a higher power than necessary, causing possible injury.

Electronic Devices - Most modern electronic equipment is shielded from RF signals. However, certain electronic equipment may not be shielded against the RF signals from your wireless phone. The Health Industry Manufacturer's Association recommends that a minimum separation of six (6") inches be maintained between a handheld wireless phone and a pacemaker to avoid possible interference with the pacemaker. These recommendations are consistent with independent research and recommendations of Wireless Technology Research. Persons with pacemakers should ALWAYS keep the phone more than six inches from their pacemaker when the phone is turned ON, should not carry the phone in a breast pocket, and should use the ear opposite the pacemaker to minimize the potential for interference.

Warnings and Precautions

If you have any reason to suspect that interference is taking place, turn your phone OFF immediately. If you use any other personal medical device, consult the manufacturer to determine if it is adequately shielded from external RF energy. Turn your phone off in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals and health care facilities may be using equipment that could be sensitive to external RF energy.

Posted Facilities - Turn your phone OFF in any facility where posted notices so require.

Blasting Areas - To avoid interfering with blasting operations, turn your phone OFF when in a "blasting area" or in areas posted: "Turn Off Two-way Radio". Obey all signs and instructions.

Section 1

Introduction

Warnings and Precautions

Potentially Explosive Atmospheres - Turn your phone OFF when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or death.

Areas with potentially explosive atmospheres are often, but not always clearly marked. They include fueling areas such as gasoline stations, below deck on boats, fuel or chemical transfer or storage facilities, vehicles using liquefied petroleum gas (such as propane or butane), areas where the air contains chemicals or particles (such as grain dust or metal powders), and any other area where you would be normally advised to turn off your vehicle engine.

Aboard Aircraft - Regulatory agencies prohibit the use of conventional wireless phones while an aircraft is in flight. These RF signals may interfere with the operation of equipment aboard the aircraft.

Driving - Check the regulations on the use of wireless telephones in the areas where you drive. Always obey them. Also, if using your phone while driving, give full attention to driving. Driving safely is your first responsibility. Pull off the road and park before making or answering a call if driving conditions so require.

Vehicles - RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles.

Caution - The Global Positioning System (GPS) is operated by the government of the United States of America, which is solely responsible for its accuracy and maintenance. The system is subject to changes that could affect the accuracy and performance of all GPS equipment. Although this device is a precision electronic NAVigation AID (NAVAID), any NAVAID can be misused or misinterpreted and therefore, become unsafe.

To reduce the risk of unsafe operation, carefully review and understand all aspects of this manual and thoroughly practice operation prior to actual use. When in actual use, carefully compare indications from this device to all available navigation sources including information from other NAVAIDS, visual sightings, maps, etc. For safety, always resolve any discrepancies before continuing navigation.

Section 1

Introduction

Map Data Information - One of our goals 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 that we identify as required in product literature and copyright messages displayed to the consumer. Virtually all data sources contain inaccurate or incomplete data to some degree. This is particularly true outside the United States where complete and accurate digital data is not available or prohibitively expensive.

CAUTION - IT IS THE USER'S RESPONSIBILITY TO USE THIS PRODUCT PRUDENTLY. THIS PRODUCT IS INTENDED TO BE USED ONLY AS A TRAVEL AID AND MUST NOT BE USED FOR ANY PURPOSE REQUIRING PRECISE MEASUREMENT OR DIRECTION, DISTANCE, LOCATION, OR TOPOGRAPHY. THIS PRODUCT SHOULD NOT BE USED AS AN AID TO DETERMINE GROUND PROXIMITY FOR AIRCRAFT NAVIGATION.

Service and Repair - This product does not contain any user serviceable parts. Repairs should be made only by an authorized service center.

Warnings and Precautions

European Union Directives Conformance Statement

This product is in conformance with the requirements of the applicable EU Council Directives.

Declarations of Conformance with the requirements are located at:

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Warning and Important Information Symbols



This Warning Symbol indicates conditions that may cause possible injury to the user or damage to this equipment.



This Important Information Symbol indicates useful information that can enhance operation of this equipment.

Section 1

Introduction

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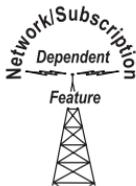
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Section 1

Introduction

Network Service Provider Information



This Network Subscription Dependent Feature symbol indicates a feature which is functional only when supported by your Network Service Provider. It will usually require activation and often an additional subscription charge above the basic service fee.

Many of the features of the NavTalk GSM are dependent on services provided by the network used to provide wireless phone service. Whenever these features are discussed in this manual, a Network/Subscription icon (like the one shown to the left) will be located at the beginning of the paragraph describing how the feature functions.

If your network service provider offers these features, they may be provided as a standard option included with your basic subscription fee or may require an additional subscription fee. In any event, they must be activated by your service provider in order to function with the NavTalk unit.

It is suggested that you review this manual before selecting a Network Provider in order to determine which of NavTalk Network Dependent features you would like to use. This will allow you to determine if a particular provider can offer connection to the desired features. Some network provided features, such as Voice Mail may function in a manner unique to your provider's system and are not discussed in detail in this manual. The network provider will provide you with proper instruction for their use. It is assumed that your network service provider will test the function of network dependent features supported by this device prior to returning it for your personal use.

Here is a list of network dependent features supported by the NavTalk:

- ✓ Voice Mail
- ✓ Short Message Service
- ✓ Information Messaging
- ✓ Call Waiting
- ✓ Network Selection
- ✓ MiniBrowser
- ✓ Call Barring (Restriction)
- ✓ Caller Line Identification (CLIP)

Section 2

Getting Started

Battery Installation and Charging

The unit is powered by a Lithium Ion rechargeable battery located on the back of the unit. The battery does not require removal from the unit for recharging. Charging at “Start Up” may require up to three hours. The battery is already installed on the unit, but must be removed in order to remove the insulating strip from the contacts on the battery which prevents complete discharge of the battery during shipping.

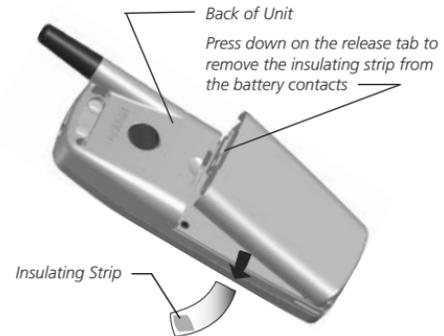
Battery Installation/Removal

1. Turn the unit over and use your index finger to depress the tab in the slot on the back of the unit to release the battery.
2. Pull the battery away from the unit and then remove the insulating strip from the electrical contacts on the battery. Discard the strip.
3. Reinstall the battery on the back of the unit.

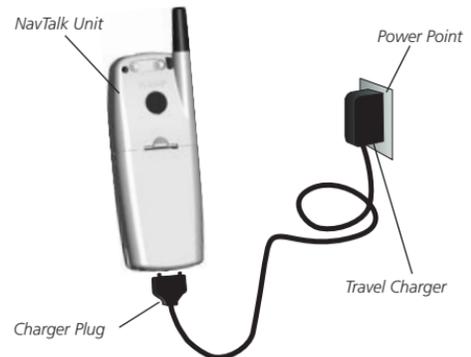
Charging the Battery

1. With the battery in place and the insulating strip removed from the contacts, connect the charger (supplied with the unit) to the connector on the base of the unit.
2. Then, connect the charger power input to an appropriate power source, power point, etc. The unit will display a “Charging” message.
3. Allow approximately 2 to 3 hours for the initial charge and somewhat less time for recharging thereafter. The message will change to indicate that charging is complete.
4. The NavTalk can be operated while connected to the charger.

Battery Installation



Battery Charging



Section 2

Getting Started

SIM Card Installation

Place this side face down with the notch at the upper right side



SIM Card

Slide to the left and then lift up tray and insert SIM Card

Orient card with notch to the upper right and electrical contacts facing down.



Back of Unit with Battery Removed

Subscriber Identity Module (SIM) Card Installation

The SIM card (supplied by your cellular service provider) is a “Smart Card” that includes your phone number, memory for storing phone numbers, messages, and service information. You can use your SIM card in any GSM phone and you will be charged for the call. The SIM card should be kept secure. Do not bend, scratch, expose to static electricity, or water as damage may occur. Your SIM card is secured by a Personal Identification Number (PIN) to discourage theft or unauthorized use. Your cellular service provider will often perform this installation for you in order to check the phone for proper operation.



NOTE: Switch off your unit before inserting or removing your SIM card to prevent damage to the SIM card memory.

SIM Card Installation/Removal

1. Switch off the unit by pressing and holding the POWER key for more than two seconds.
2. Remove the battery pack from the back of the unit.
3. Install the SIM card by sliding and lifting the tray in the back of the unit. Insert the card with the notch directed toward the top right side of the opening.
4. To remove, lift up the tray and carefully extract the card.
5. Replace the tray and secure it in place. The tray must be closed and moved to the right until it clicks in place in order for the SIM card to function.

Section 2

Getting Started

Remote Earpiece/Microphone
Connection

Service Status Indicator (LED)

Wireless Phone Antenna

Volume **UP**/Zoom **OUT** key

Press and Hold to increase earpiece volume or to zoom out on the map page to show more map area with less detail. Press and Release to move by increments.

Volume **DOWN**/Zoom **IN** key

Press and Hold to decrease earpiece volume or to zoom in on the map page to show more map detail with less area. Press and Release to move by increments.

MENU key

Press and Release to display the Main Menu or the Options Menu for any page. Press and Hold to display the 'Find 'n Go' find menu.

SEND key

Press and Release to call a dialed number, a highlighted number from the Contacts List, or to display the Call History Page.

Rechargeable Battery
on back of unit

Auxiliary Power/Data Connector



Refer to Pages 99-101 for information on accessories and how to connect them to the NavTalk Unit.

Using the Keypad

Built-in GPS Antenna

POWER key

Press and Release to turn the unit ON. Press and Hold to turn the unit Off. Press and Release while the unit is On to display the Backlight/Contrast adjustment window.

ENTER & Up/Down-Right/Left keys

(5 position key) Press In for **ENTER** to highlight, confirm a message or select an option. Move Up, Down, Left, or Right to move from field to field, tab to tab, or move the map pointer. Move Up or Down to scroll through a list. Left or Right to move from page to page of a list. Press and Hold to display the 'Quick Set' Menu.

CLEAR key

Press and Release to delete a previous character or exit a data entry field. Press and Release again to escape to the Main Menu. Press, Once from the Main Menu, to place the unit on Standby. Press and Hold to delete a field.

END key

Press and Release to end a call or stop the phone from ringing. Press Once to exit a page or menu when not on a call.

Dialling and Data Entry KEYPAD

Used to dial phone numbers and enter alphanumeric characters for data entry. Also some special key functions for speed and emergency dialling, international prefixes, etc.

Section 2

Getting Started

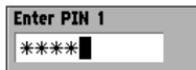
Turning the Unit On/Off

Unit Power Key



Press and Release to turn On

Press and Hold to turn Off



SIM PIN 1 Code Entry



SIM Code Entry Successful



SIM Code Entry Error - Re-enter correct code



SIM Blocked Message after three unsuccessful attempts.

Contrast/Backlight Settings Screen



Backlight
Settings
Buttons

Contrast
Adjustment
Lever

Turning the Unit On and Off

1. Press and hold the **POWER** key for more than two seconds.
A Welcome page will display and if no PIN security is active, then move to the Main Menu when GPS is Off. If there is no SIM card installed an "Insert SIM" message will display. Turn Off the unit and install the SIM card as explained previously. A "SIM Not Ready" message may also appear if you try to dial immediately after turning the unit On.
2. An "Enter PIN 1 Code" message will display if the SIM card security is activated. Use the **KEYPAD** keys to enter your PIN1 code. As you enter each character of your PIN 1 code, an * will display for number of the code, then press the **ENTER** key. A "Code Accepted" message will appear. Press **ENTER** to acknowledge and, if the GPS receiver is enabled, a warning message will appear. Press the **ENTER** key to acknowledge and display the Main Menu. Your service provider will advise you of the preset PIN 1 code (i.e. 1234). It is recommended that you change this code when setting up your unit. Record your new PIN code and store in a safe place.
3. If you make a mistake, press the **CLEAR** key and begin again. If you fail to enter your PIN 1 code in three attempts the unit will lock and a "SIM Blocked" message will appear. To learn how the PIN Code Security feature is set up and how to use an unblock code (PUK), see the section of Phone Operation, entitled "Security Settings" on page 56.

Adjusting the Screen Contrast and Backlight Settings

1. Press and release the **POWER** key with power On to display the Screen Contrast/Backlight Settings panel.
2. Use the Right and Left **ARROW** keys to move the contrast lever until the desired contrast level is achieved.
3. Use the Up and Down **ARROW** keys to select the Backlight buttons. Refer to the following page for more Backlight details.

Activating the Backlight Feature

1. Press and release any key to turn on the Backlight. The Backlight will remain on for the amount of time set. Default is 10 seconds. A small illuminated light bulb will appear in the Status Bar at the top of the screen. Press and release the **POWER** key to display the Contrast/Backlight settings window (see page 4).
2. To select from "Always On", "Timeout", or "Always Off" options, use the Up/Down **ARROW** keys to select a button and then press **ENTER**.
3. To turn off the backlight before it times out, press and release the **POWER** key. To reset the timeout see page 96.
4. The backlight timeout can be set for; 10 Seconds, 30 Seconds, 1 Minute, and 2 Minutes.

Adjusting the Volume

The volume for the earpiece can be adjusted by pressing and holding the **UP** and **DOWN** keys on the side of the unit.

1. Press and hold the **UP** key to display the volume control window with a slider control for the earpiece.
2. Use the **UP/DOWN** Volume or **ARROW** keys to raise or lower the volume. Press the **CLEAR** key to close the window when done or allow it to timeout.
3. To adjust the earpiece, ringer, and key press tone volumes at the same time, refer to the Phone Settings Profiles Page on page 53.
4. For quick adjustment of volume levels for different environments, refer to the Profiles option of the 'Quick Set Menu' as described on page 8.

Activating the Backlight



Press and Release the POWER key with the unit On to turn On the Backlight.



The Backlight will come On after any key press and remain On until the Timeout period ends.

Use the Up/Down ARROW keys to select a backlight option and then press ENTER.



Adjusting the Volume



The UP key increases volume



The DOWN key decreases volume

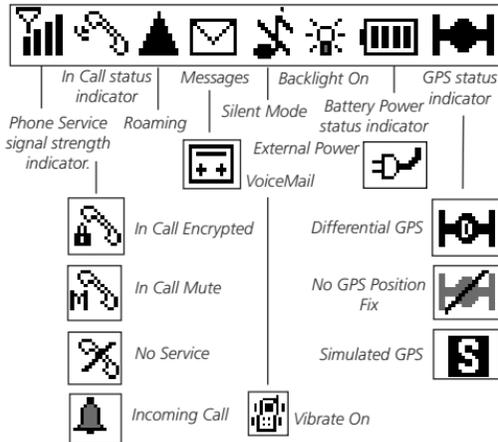


The UP/DOWN keys

Adjust earpiece volume by using the slider on the volume adjustment window.

Section 2

Getting Started



The Time and Date Display



The date and time are settable using the 'Set Time' page of the 'Settings' Time Tab.

The time can be changed to reflect daylight savings time, and time zone.

The time can also be displayed in either 12 or 24 hour format.

Understanding the Status Bar

The Status Bar at the top of the display screen provides a constant indicator of unit function.

From left-to-right, the Status Bar displays the wireless phone signal strength, the current status of your phone call (in-call active, In Call Encrypted, In call Mute, Incoming Call and No Service), current messages (indicating SMS, Info Messages, Voice Mail, and Position Reports), whether or not you are roaming outside your service area, vibrator On/Off, backlight On, power source (battery or external power and capacity if using the battery), and GPS status (Simulating, Active, Position Fix Status, Differential GPS, or Off).

The Time and Date Display

The current Time and Date are displayed only when the Main Menu page is active.

To set the time and your current time zone, refer to Time Settings on page 97. On the 'Time' page of the 'Settings' section you will be able to access the 'Set Time' page to set the date, current time, and select the proper time zone. The 'Time' settings page also allows you to select a time format (12 or 24 hour), and to activate/deactivate daylight savings time options.

The Service Status Indicator (LED)

The current service status is indicated by an LED located at the top of the unit next to the wireless antenna (see page 3). When the Service Status feature is turned On, the LED will: Flash Red when no service is available, Flash Amber when roaming, Flash Green when service is available, stay Solid Amber when in a call while roaming, and stay Solid Green when in a call with service from your home network provider. Refer to Network Settings on page 57 for detailed information.

Section 2

Getting Started

Using the 'Quick Set' Feature

The Quick Set feature allows you to quickly activate some basic operational characteristics of your unit such as Keyguard, Profiles (unit ringer volume and call answer modes), GPS On/Off, and Mark Waypoint features.

Using the Keyguard Feature

The 'Keyguard' feature allows you to lock the keypad to prevent inadvertent pressing of a key while the unit is in your pocket, purse, etc. This prevents accidental placement of one keypress dialling options such as speed dial and emergency dialling. Press and Hold the **ENTER** key to display the Quick Set Menu, use the **ARROW** key to highlight the 'Keyguard' option and press **ENTER** again to activate this feature. When 'Keyguard' is operational, a message will appear each time a key press is attempted. Press and Hold the **CLEAR** key to cancel 'Keyguard'. Incoming calls and messages will temporarily unlock the keypad.

Synchronizing Contact Data (Begin Sync)

(Applies only to units provided with the Intellisync for GARMIN CD-ROM)

To begin synchronizing PC contact program data using Intellisync for GARMIN, highlight this option and press **ENTER**. Refer to page 109.

Turning the GPS Receiver On or Off

To turn the GPS receiver On or Off, highlight the GPS Off/On option and press **ENTER**. When On the receiver will significantly reduce the battery reserve. When Off, it will allow extended battery use.

Marking Your Current Location (Mark Waypoint)

The Mark Waypoint feature allows you retain a record of your current location and save it as a waypoint which can be used as a destination when creating a route. Highlight the Mark Waypoint option and press **ENTER** to display the Mark Waypoint page. Use the **ARROW** key to highlight the 'OK' button and press **ENTER** to save the waypoint. Refer to page 87 for more information.

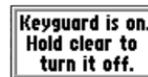
Using the 'Quick Set' Feature



'Mark Waypoint' Option will appear gray if GPS is not active or searching for satellites.

The Quick Set List of Options

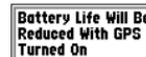
Keyguard
"Pop-Up"
Window



Press and Hold the CLEAR key to Disable



Keyguard On message appears whenever a key is pressed.



GPS On and Off Messages



The Mark Waypoint Page

Section 2

Getting Started

Using Profiles



Profiles Options Menu



Profiles Settings Tab

Using the Profiles Feature

The Profiles feature allow you to determine quickly, the mode in which the phone portion of the unit will operate when a call is received according to the environment in which you are currently located without the need to manually adjust volume and feature settings. Use the **ARROW** keys to highlight your choice and press **ENTER** to activate. Profile options are:

- **Normal** - settings you desire for regular use of the unit.
- **Silent** - settings for use when you want the unit to be silent.
- **Outdoor** - settings for use in an outdoor (noisy) environment.
- **Meeting** - settings for use when in a meeting environment.
- **Headset** - settings for use when using a hands-free headset.
- **Car** - settings for use when using in a vehicle or with the Hands-Free Kit. The unit switches to this profile when in the cradle.
- **Personal 1 & 2** - settings for use in any other type environment.

The Standby Feature



Settings for each profile type are made from the Profiles Settings tab of the Phone Option of the Main Menu Settings tab as described on Page 53. When viewed on this page, each setting displays a list of custom settings for: Calls, SMS, Alarms, Data Calls, Vibrate, Message Beeps, and Key Beeps.

Using the Standby and Power Saver Features

The Standby feature shuts down many operating features without actually turning off the unit power when the display timeout is reached. This allows you to still make and receive calls while saving on battery power. To manually activate Standby, press the **CLEAR** or **END** key from the Main Menu. To de-activate, press any key. The Power Saver feature turns off the lower two-thirds of the display for maximum power saving. Refer to page 96 for details about the Power Saver feature.

The Power Saver Feature



Understanding the Operating Software Structure

The Main Menu is the display that you see when the Welcome Page and PIN Entry prompt are completed. It also is displayed whenever you press and release the **MENU** or **END** key, when not on an active call.

It consists of four tabbed pages and is the starting point for access to most of the NavTalk's Features. Each tabbed page consists of a listing of features related to the tab's title. Each feature is subsequently divided into either a single page of features and options or a set of tabbed pages with features and options.

These pages often include an Option Menu that allows you to customize the page's features. Individual features on these pages contain data fields that display useful information, most can be programmed, by selecting options from a list, or allow you to enter specific data using the **KEYPAD** keys. To move about the fields on these pages use the **ARROW** keys. To activate a field for data entry, use the **ENTER** key. To return to the previous page use the **CLEAR** key.

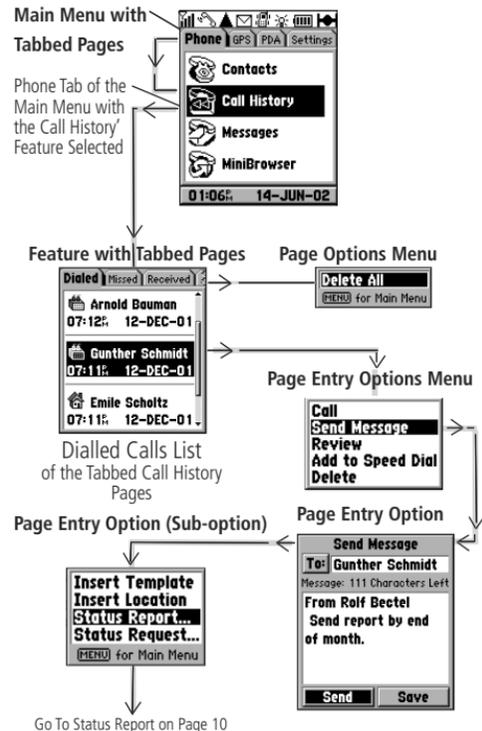
To Select a Feature

1. Use the **ARROW** key to and highlight the feature on the page.
2. Press **ENTER** to display the feature page or tabbed pages.
3. Use the **ARROW** key to move from tabbed page to tabbed page.

To View the Option Menus

1. With the feature page displayed, press the **MENU** key to display the Page Options Menu.
2. To view options for an item on the feature page, use the **ARROW** key to highlight the item and then press **ENTER**.

How the Operating System is Structured



Section 2

Getting Started

Entering Data

The screenshot shows a form titled "Send Status Report". The "To:" field contains "Alna Bergman". The "Repeat" field has a checked box and a list of options: "10 Minutes" (highlighted), "1 Hours", and "1 Minutes". Below the list are "Send" and "Cancel" buttons.

← Data Entry Field with List of Options

The screenshot shows the same "Send Status Report" form. The "Repeat" field has a checked box and a keypad icon. The "Timeout" field has a checked box and "1 Hours" entered. Below the form are "Send" and "Cancel" buttons.

← Data Entry Field with Keypad Entry Option

The screenshot shows a form titled "New Entry". The "First Name" field contains "Daniel". The "Last Name" field contains "Thompson" with a cursor. Below are fields for "Home Phone Number" and "Work Phone Number", and "Call" and "Delete" buttons.

← Data Entry Field with Alpha Character Entry

Data Fields and Data Entry Techniques

Nearly every feature page contains a data field (a page item that can be highlighted using the **ARROW** key and modified as desired). There are two methods for entering data in a field:

Selecting Data from a list

Many data fields contain an options menu with a list of choices.

To use Options Lists

1. Highlight the data field and press the **ENTER** key to display the menu.
2. Use the **ARROW** key to highlight your selection and then press **ENTER** to place it in the data field. To move from page to page of long lists, use the Left/Right **ARROW** keys.

Entering Data using the KEYPAD keys

The **KEYPAD** keys provide a dual function, when you are ready to enter user specific data into a data field. Not only do they dial phone numbers but they also allow you to enter alpha/numeric characters in data fields by repeatedly pressing the key. The alpha characters are entered in sequence starting with first letter on the key and ending with the numeral. A character chart for each key press sequence is provided on the following page.

To enter data using the KEYPAD keys:

1. With the data field highlighted, press the **ENTER** key to isolate the first character space in the field. If you want the first character to be upper case, press the **#** key first, then cycle the key with the desired character until that character displays in the space. If you want all upper case characters, press the **#** key twice. If you want numerals only, press the **#** three times. Wait a few seconds for the character space to advance, then enter your next character. To add a space press the **0** key. Use the **CLEAR** key to erase and the **ARROW** key to back up and change.
2. Press **ENTER** when completed.

Text Entry - Character Chart

Key

Number of key presses required to display the desired character
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Press the # Key before pressing a number key to switch to upper case characters

| | | | |
|--|--------------------------------|-----------------------|-------------------|
| | . @ / ? ! 1 , " ' : ; & # i ð | upper case characters | A B C 2 Ä Å Æ Ç |
| | a b c 2 ò ö ð æ | | D E F 3 É Ê Æ Ç |
| | d e f 3 é è Δ Φ | | G H I 4 Γ |
| | g h i 4 i Γ | | J K L 5 Δ |
| | j k l 5 Δ | | M N O 6 Ñ ò ö Ø |
| | m n o 6 ñ ò ö ø | | P Q R S 7 ß Π Θ Σ |
| | p q r s 7 ß Π Θ Σ | | T U V 8 Ü |
| | t u v 8 ü ù | | W X Y Z 9 Ω Ξ Ψ |
| | w x y z 9 Ω Ξ Ψ | | |
| | Space Next Line 0 % £ \$ ¥ ¤ § | | |
| | * + - < = > () | | |
| | | | |

Press once before pressing a number key to **shift** to an upper case character for the first letter of an entry. Press twice to enter all characters in upper case characters. The status bar will display a solid arrow **↑** for first character caps only and an arrow with a dash **↑** for all upper case. Pressing this key will not enter a # symbol when entering text. Use the 1 Key. Use the NumLock feature for quick entry of numerals only. To engage the NumLock feature, press this key three times until the **1₂** symbol appears in the status bar.

Section 2

Getting Started

The Main Menu



Phone Tab - Contacts



Contacts List



Phone Number New Entry Page

The Main Menu

The Main Menu is a directory of the unit's operating features. By selecting a tab and pressing the **ENTER** key you can access a list of features for that category. The Main Menu features are: **Phone**, **GPS** (Global Positioning System), **PDA** (Personal Digital Assistant), and **Settings**.

To access the Main Menu, at any time, press and release the **MENU** key, **CLEAR** key, or **END** key until the Main Menu is displayed.

Here is a quick review of the Main Menu tabbed features, detailed instructions on their use is contained in the sections titled "Phone Operation" and "GPS Navigation":

Phone - Selecting this tab presents you with a list of phone feature pages which allow you to manage your calls.

The first is **Contacts**, which is a tabbed directory of the names you have entered and saved for future use. Names and numbers entered in Contacts can be synchronized with those contained in PC Contact management programs using the Intellisync for GARMIN CD-ROM, see page 109. Options for creating a New Phone Number entry are: *First Name, Last Name, Home Phone No., Work Phone No., Car Phone No., Mobile Phone No., Pager No., Fax No., Company, Home Address, Work Address, e-mail Address, Web Address, Note, Waypoint, and Special Date.*

Page Options are: *View SIM #'s, View Speed Dial List, View Fixed Dialling #'s, View My Phone #'s, and Delete All.*



NOTE: *The SIM #'s feature, similar to Contacts, is available on most SIM cards. Refer to the section detailing SIM card use on pages 27 and 32.*

Section 2

Getting Started

The second is **Call History**, selecting this tabbed feature allows you to access information about calls received and made

- The **Dialled Calls** page provides you with a list of the last calls made and allows you to redial them if desired.

Page Options are: *Delete All*.

- The **Missed Calls** page provides a list of calls made to you, but were unanswered. Those calls with CLIP (Caller Line Identification Presentation) can be redialled.

Page Options are: *Delete All*.

- The **Received Calls** page maintains a record of the last calls you have received, allowing you to redial them if desired.

Page Options are: *Delete All*.

- The **Air Time**, in minutes, page keeps track of the number of call minutes used for your last call and for all accumulated calls.

Page Options are: *No Options*.

- The **Call Cost** page provides you with accurate information about your call units for the last call made and for the total of all calls. You can also set call unit limits using this feature. The unit of measure is ACM or Accumulated Charge Meter and will be displayed in units that can be cost calculated using appropriate currency values. This feature requires the PIN 2 security code.

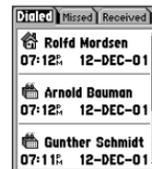
Page Options are: *No Options*.



The Main Menu



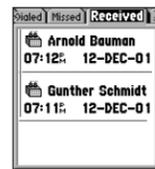
Phone Tab - Call History



Dialled Calls



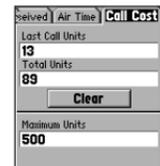
Missed Calls



Received Calls



Air Time



Call Cost

Section 2

Getting Started

The Main Menu



Phone Tab - Messages Pages



New Message

Voice mail

Inbox



Read

Draft

Sent

The third feature is **Messages** with tabbed pages for Short Message Service storage, management, and creation.

- The **New** page allows you to create new messages. You can select the name of the recipient from Contacts, write your message, and send or save the message as desired.

Page Options: *Set Signature and View Info Messages*

- The **Voice mail** page allows you to access voice mail messages.

Page Options: *Set Signature and View Info Messages*

- The **Inbox** page is a comprehensive listing of received messages, information and voice mail.

Page Options: *Clear Folder, Set Signature, and View Info Messages*

- The **Read** page is a listing of received messages, that have been read and retained for review or reference.

Page Options: *Clear Folder, Set Signature, and View Info Messages*

- The **Draft** page is a comprehensive list of messages, information and voice mail to be sent at a later date.

Page Options: *Clear Folder, Set Signature, and View Info Messages*

- The **Sent** page is a comprehensive list of sent messages, information and voice mail.

Page Options: *Clear Folder, Set Signature, and View Info Messages*

- The **Templates** page allows you to create messages that can be saved and used for multiple applications.

Page Options: *Clear Folder, Set Signature, and View Info Messages*

- The **Reports** page allows you to view a record of what position reports have been sent to recipients.

Page Options: *Clear Folder, Set Signature and View Info Messages*

- The **Recurrences** page allows you to view the number of times a particular position report has been sent.

Page Options: *Clear Folder, Set Signature, and View Info Messages*

Messages Page Options

The Messages Page provides three options: 'Set Signature' (include a "From" signature that identifies you as the author of the message) and 'View Info Messages' (which provides access to a service provider feature page that displays information messages for service or other type promotions). The 'Clear Folder' option allows you to remove all entries from the page currently displayed. Individual entries can be deleted by viewing the message, pressing the **MENU** key, and selecting the 'Delete' option.

Info Messages are also known as "Cell Broadcast"



Message Page
Options



Info Messages

The Main Menu



Templates



Reports



Recurrences

Section 2

Getting Started

The Main Menu



Phone Tab - MiniBrowser



Air Time
Fee Adviser



MiniBrowser Page

The final selection is the **MiniBrowser** which allows you access to the wireless web.

Page Options: *Add to Bookmark, Show URL, View Air Time, Encryption, and Restart..*



This feature will not be functional unless your service provider offers support and you add it to your subscription. Like internet service at your home or office, there will be air time fee charges for its use.

GPS - This tab presents you with a list of five Global Positioning System related feature pages

The first on the list is the **Map Navigator**, which is the main navigation display. This page provides a direction field with compass or direction arrow, a speed field, a distance to go field, a time to go field, a map with position icon or panning arrow and Zoom In/Out scale.

Page Options: *Find 'n Go, Full Screen Map, Show Data Fields, Show Next Street, Hide Next Street, Stop Navigation, Measure Distance, Setup Map, Trip Computer, and Turn GPS On/Off.*

The second feature is **Find 'n Go**, which consists of a database of map locations for waypoints, points of interest, cities, exits, addresses, and junctions. Select a map item from the lists provided and then press **ENTER** to view on the map, create a route and Goto it or save it as a waypoint. You can choose from lists of "Nearest" or "By Name".

The type of mapping information available to Find 'n Go functions like points of interest, addresses, and junctions is dependent on the type of MapSource map data software that is downloaded to the NavTalk. Refer to page 110 for a detailed description of MapSource mapping data and how it functions with the NavTalk GSM.

Page Options: *Find By Name, Find Nearest, Delete Waypoint, Delete By Symbol, Delete All, and Save as Waypoint.*

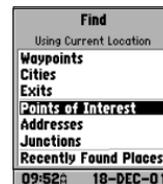
The Main Menu



GPS Tab Pages



Map Navigator



Find 'n Go

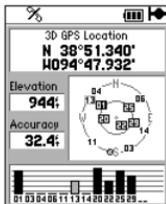
Section 2

Getting Started

The Main Menu

| Trip Computer | |
|---------------|--------------|
| Trip Odom | Stopped Time |
| 0.0: | 00:00:00 |
| Moving Avg | Moving Time |
| 0.0: | 00:00:00 |
| Overall Avg | Total Time |
| 0.0: | 00:00:00 |
| Max Speed | Odometer |
| 1.5: | 4.4: |

Trip Computer



Satellite Information

The third item on the list is the **Trip Computer**, which displays information about the navigation process using data fields to indicate: Trip Odometer, Stopped Time, Moving Time, Moving Average, Overall Average, Total Time, Maximum Speed, and accumulated distance Odometer.

Page Options: *Reset Trip, Reset Max Speed, and Reset Odometer.*

The final feature on the list is the **Satellite Information** Page, which displays both an overhead view of the GPS satellites being tracked by the unit and the relative strength of each signal being received. In addition, it displays your present latitude and longitude, elevation, current speed and relative accuracy of your position.

Page Options: *North or Track Up, New Elevation, New Location, and Turn GPS On/Off.*

Section 2

Getting Started

PDA - This tab displays Personal Digital Assistant style feature pages which allows you to manage personal information.

The first feature is the **Calendar** which incorporates a calendar with selectable dates and a notation page to list appointments for that day along with a reminder alert option. Data contained in this feature can be synchronized with PC contact management data using the Intellisync for GARMIN CD-ROM for appointment scheduling, etc. See page 109.

Page Options: *Delete All and Move All.*

The second feature is the **Tasks** which allows you to create a list of tasks with check boxes to indicate when they have been completed. When highlighted a task on the list will display the due date for the task at bottom of the page. Data contained in this feature can be synchronized with contact management data for a PC as explained on page 109.

Page Options: *Delete All.*

The third feature on the list is **Notes** which allows you to store important information in note form. To retrieve that information without scrolling through long lists, just use the on-screen Find key, enter a key word and press **ENTER**. Data contained in this feature can be synchronized with contact management data for a PC. See page 109.

Page Options: *Delete All.*

The fourth feature on the list is the **Games** Page which offers a variety of familiar games for recreational use.

Page Options: *New Game, Set Level, etc..*

The final feature on the list is the **Calculator** Page which offers two types: standard and scientific.

Page Options: *Standard, Scientific, Radians, and Degrees.*



Calculator

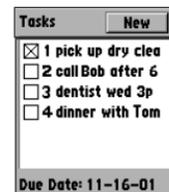
The Main Menu



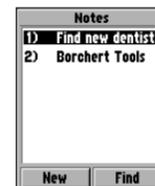
PDA Tab Pages



Calendar



Tasks



Notes



Games

Section 2

Getting Started

The Main Menu



Settings Tab - Phone Pages



Profiles



Security



Network



Calls



SMS



Messages

Settings - This tab displays pages which used to manage unit features that include the Phone pages, the Call Services pages, the System pages, the GPS pages, and the Map pages. The first are the **Phone** pages, a tabbed directory of settings that allow you to customize the phone.

- The **Profiles** Page allows you to volumes and tones for a variety of call and message profiles.
Page Options: *Restore Defaults*. Edits : *Alerts, Volume, General*.
- The **Security** page controls PIN number entry, fixed dialling, and codes.
Page Options: *None*.



- The **Network** page allows you select a network, choose a preferred network, and select a service operator.
Page Options: *Restore Defaults*.

- The **Calls** page allows you to setup the ways calls are handled.
Page Options: *Restore Defaults*.



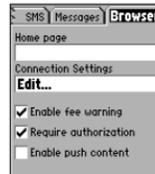
- The **SMS** page allows you to enter a Service Center No., determine the length that a message is valid, choose a format, and select how the recipient replies.
Page Options: *Restore Defaults*.



- The **Messages** page allows you set Info message categories, choose an Info message language, enter a Voice mail number, and an SMS emergency number.
Page Options: *None*.



- The **Browser** page allows you to enter a home page No. Connection Settings, and enable/disable fee warning, require authorization, and enable push content.
Page Options: *None*.



Browser

Section 2

Getting Started

The second feature on the list is the **Call Services** pages which is a tabbed directory of four call services.



The **Call Divert** Page, allows you to divert calls to a variety of choices: All Voice Mail, Voice if Busy, Voice if No Answer, Voice if Out of Reach, Voice if Not Available, All Fax Calls, and All Data Calls.



Page Options: *None*.

- The **Call Barring** Page allows you to bar: All Outgoing Calls, International Calls, International if not Home, All Incoming Calls, Incoming if Roaming, and Cancel All Barrings.

Page Options: *None*.



The **Call Waiting** Page allows you to be notified of all incoming calls while on another call.

Page Options: *None*.

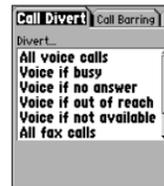
- The **Setup** Page allows you to send your own phone number and to select settings for the Call Divert feature.

Page Options: *Restore Defaults*

The Main Menu



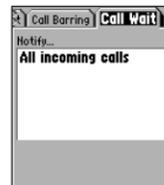
Settings Tab - Call Services Pages



Call Divert



Call Barring



Call Waiting



Setup

Section 2

Getting Started

The Main Menu



Settings Tab - System Pages



Display



Time



Interface

The third item on this list is the **System** pages which is another tabbed directory for accessing three unit features.

- The **Display** page with Backlight Timeout, Display Timeout, Units of Measure, and Language options.

Page Options: *Restore Defaults.*

- The **Time** page with Time Setting, Time Format, Time Zone options, and Daylight Savings Time options.

Page Options: *Restore Defaults.*

- The **Interface** page with Serial Data Format options, Baud Rate options, Beacon, Frequency, Bit Rate options, and Beacon Receiver Status Information.

Page Options: *Restore Defaults.*

Section 2

Getting Started

The fourth on this list is the **GPS** pages which is another tabbed directory for determining the type of GPS navigation information displayed in the Map Navigation Page.

- The **General** page with choices for GPS On/Off, Battery Saver, or Simulation, Location Format, Map Datum, and Track Log selection.

Page Options: *Restore Defaults and Setup User Datum.*

- The **Heading** page with North Reference selections, Magnetic Variation, and Direction Displays, and Cardinal Letters or Numeric Degrees.

Page Options: *Restore Defaults and Setup User Grid.*

- The **Guidance** page which allows re-calculation of a route after you have traveled off the original path to a destination, an optional pop-up message to advise you of upcoming turns on a route, and three optional avoidance selections to make a route more efficient.

Page Options: *Restore Defaults.*

- The **Routing** page that allows you select the type of route desired, an optional preferences prompt when creating a route, a choice of methods for calculating a route, and calculation of routes most suitable for the type of transportation you plan to use.

Page Options: *Restore Defaults.*

The Main Menu



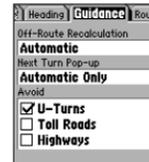
Settings Tab - GPS Pages



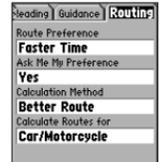
General Settings



Heading Settings



Guidance Settings



Routing Settings

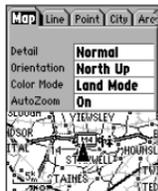
Section 2

Getting Started

The Main Menu



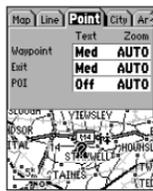
Settings Tab - Map Pages



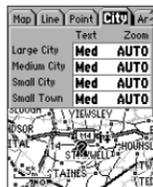
Map



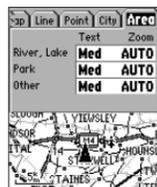
Line



Point



City



Area

The last item on this list is the **Map** pages which is another tabbed directory for customizing the map display.

- The **Map** page with setting options, Detail, Orientation, Color Mode, and AutoZoom.

Page Options: *Restore Defaults and Restore All.*

- The **Line** page with text and zoom options for: Track Log, Railroad, and Street Label.

Page Options: *Restore Defaults.*

- The **Point** page with text and zoom options for: Waypoint, Exit, and Point of Interest

Page Options: *Restore Defaults.*

- The **City** page with text and zoom options for: Large City, Medium City, Small City, and Small Town.

Page Options: *Restore Defaults.*

- The **Area** page with text and zoom options for: River, Lake, Park, and Other.

Page Options: *Restore Defaults.*

Making a Call

Dialling from the Keypad

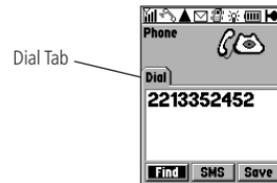
1. Enter the phone number by pressing the appropriate keys on the Phone **KEYPAD**.
2. Observe the number displayed on the Dialling Page. Press the **SEND** key when the entire number has been entered. Highlight and press 'Find' to locate the number in the Phonebook, highlight and press 'SMS' to send a short message, or press Save to place the number in Contacts

Dialling from Contacts

The Contacts List is comprised of entries downloaded from another list or by manual entry. Detailed information on how to enter names, numbers and other data in Contacts is contained on page 30. Information on using dialling and call information options is contained on pages 31 through 42. To make Contact List entries easier, you may want to install the Intellisync for GARMIN CD-ROM on your PC and begin to synchronize Contact Data already established in your contact management program. Intellisync is compatible with Microsoft Outlook, ACT!, Lotus Notes, and Palm Desktop applications. Refer to instructions provided with the CD-ROM.

1. Highlight Contacts from the Main Menu 'Phone Tab' and press the **ENTER** key to display the tabbed list of names and phone numbers.
 2. Select the desired name from the list and press the **ENTER** key to display the Information Page for that name.
 3. With the page for that name displayed, highlight and press the on-screen 'Call' button to dial.
- Or... display the phone number options if more than one number is listed on the page. Then highlight the desired number on the list and press **ENTER** or the green **DIAL** key to dial the number.

Making A Call

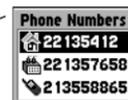


Dialling Page

Simply press the  key, to dial a number displayed on the Dialling Page.



Contact Name Information Page



Highlight the phone number you want to dial and then press **ENTER**.

Highlight the 'Call' button and press **ENTER** to dial or display the options windows for multiple number listings.

NOTE: Contacts will synchronize with the SIM card phone list at the first access to Contacts after each power up.

Section 3

Phone Operation

Making A Call



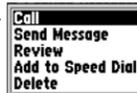
Dialled Calls List



Missed Calls List



Received Calls List



Dialling from the Call History Pages

The Call History Pages allow you maintain records of Dialed Calls, Missed Calls (calls made to you that you did not answer), and Received Calls. An options menu provides the ability to call those individuals on the lists, send messages and other call management tasks. The Call History pages won't consist of very much call data until you have used the phone for a while and some call activity has been recorded.

1. Highlight Call History from the Main Menu 'Phone Tab' and press the **ENTER** key to display tabs for the 'Dialed', 'Missed', and 'Received' Calls lists.
Or...if you are on any other page and not highlighting a contact/number, press the **SEND** key to display the 'Dialed' Calls list.
2. Use the **ARROW** key to select the desired tab for the list you want to view.
3. Use the **ARROW** key to select the desired name and number and then press **ENTER** to display the list of options or the **SEND** key to dial the number listed. Pressing the **MENU** key will display the 'Delete All' option to clear the list
4. If you chose the Options Menu, use the **ARROW** key to highlight 'Call' and then press **ENTER**. The Calling Page will display and the number will be dialed. To use the other options from this list refer to page 35, "Call History".

It is important to note: that if a missed or received call originated from a source that did not allow Caller Line Identification Presentation (CLIP), you will not be able to dial that number from the Missed or Received Calls Lists.

Dialling from the Speed Dial List

Prior to using the Speed Dial List you must place phone numbers on the list. Note that the Voice mail number is reserved for the number one position on the list. You can enter the voice mail number directly to the number one position on the list or enter it in the Main Menu-Settings-Phone-Messages Tab-Voice Mail # field (page 60). When entered in either location it will be automatically copied to the other. The last number (9) on the list is reserved for an Emergency number, which is a specific number that you have designated with an SMS message. A standard Emergency call can be dialed as you would any other phone. An emergency call can be made when the keypad is locked. See page 60 for entry details.

1. Press and Hold the appropriate **Keypad** key (1-9) that corresponds to the phone number entered in that slot on the Speed Dial List. Refer to page 31 for setting up the Speed Dial List and page 60 for entering your Voice mail number.

Dialling from the SIM Card or Fixed Dialling List

As with Speed Dialling, prior to using these two Dialling Lists you must place phone numbers on the lists. Note that if you have previously added numbers to your SIM card prior to installing it in the NavTalk, those numbers will be available for use. You will also be prompted to add them to Contacts. Fixed Dialling Numbers will always be available for use whether or not the Fixed Dialling Feature is On or Off. When On, only those numbers on the List may be dialed.

1. Access Contacts and press the **MENU** key to display the Options menu. Observe "View SIM #'s" and "View Fixed Dialling #'s" options.
2. Highlight the desired option and press **ENTER** to display this list of numbers, then highlight the number you want to call and press the **SEND** key to dial.

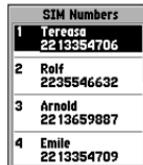
Making A Call



Speed Dial List



Fixed Dialling List



SIM Card List

Section 3

Phone Operation

Handling A Call



Incoming Call Page

Answering a Call

Press the  key.



Placing A Call On Hold

Ending a Call

Press the  key, or highlight the on-screen 'END' button and press ENTER.

The Active Call Page

You can employ a variety of options to perform call handling tasks from the Active Call Page. This page displays whenever you are dialling, answering, holding, transferring or conferencing calls.

Answering a Call

1. Press the **SEND** key or highlight the 'Talk' button and press **ENTER**.
You may also use the Auto-Answer feature as explained on page 58.

Placing a Call on Hold

1. Highlight the on-screen 'Hold' button and press the **ENTER** key to place a call on hold while you answer another incoming call, talk to someone already on hold, listen to voice mail messages, or perform a task that takes you away from the phone.
2. To return to the person just placed on hold, highlight the Hold tab to display the Hold List. Then highlight call on hold and press **ENTER**.

Muting a Call

1. Highlight the on-screen 'Mute' button and press the **ENTER** key to mute the microphone in order to talk privately with someone nearby without the person on the phone overhearing your conversation.
2. To restore the microphone to normal, highlight and press the on-screen 'VOICE' button.

Ending a Call

1. Press the **END** key, or highlight the on-screen 'End' button and press **ENTER** at any time.

Conference Calls

1. When on an active call, highlight the Hold tab on the Call Page to display the Hold List.
2. Press the on-screen 'Join' button to connect all callers on the Hold list to the conference call.
3. To speak to an individual within the conference in private or to exclude any individual temporarily from the conversation; highlight the name of the caller from the list of callers and press the **ENTER** key to display a list of options that can be performed with that caller. To exclude the caller temporarily from the conference, select 'Hold' and press **ENTER**. To speak with a caller in private, select 'Private' and press **ENTER**.
4. To return to the regular conference mode, return to the Hold List and press the on-screen 'Join' button.
5. To end a conference call, press the **END** key.

Sending an Incoming Call to your Voice Mailbox



If you have voice mail service, any unanswered call will be forwarded to your voice mailbox. However, when you are using CLIP (Caller Line Identification Presentation), the name of the caller will be displayed on the Incoming Call Page. If you do not want to talk to the caller at this time and would rather send the call directly to your voice mailbox, follow the instructions below.

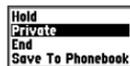
Highlight the on-screen 'End' button and press **ENTER** or press the **END** key to send the call to your voice mailbox.

Handling A Call



Active Call
Options Menu

Active Calls for a Conference Call



Individual Caller
Options Menu

Calls on Hold List



Forwarding A Call to Voice Mail

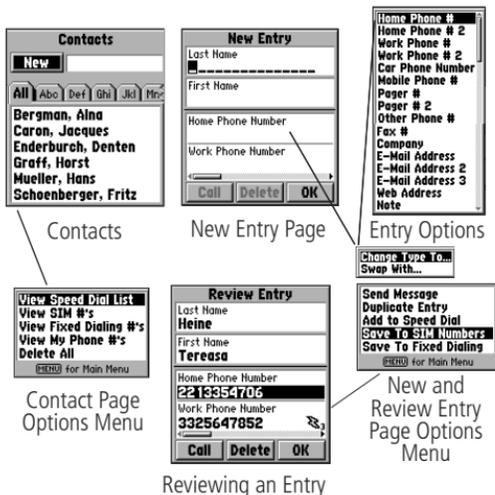
Section 3

Phone Operation

Using Contacts



Main Menu - Phone Tab



Using Contacts

Contacts store names and numbers for later use and is the path to such features as Speed Dial List, SIM Card Directory, Fixed Dialling List, and your Own Phone Numbers.

To open Contacts

1. Start from the Main Menu 'Phone Tab' and highlight 'Contacts' from the list of options. Press **ENTER** and the Contacts page will be displayed with tabbed sections for portions of the alphabet.
2. Use the **ARROW** keys to move from tab to tab.

To Enter a New Name and Number in Contacts

1. Highlight the 'New' key with Contacts page displayed and then press **ENTER** to display the New Entry page.
2. Use the **ARROW** key to highlight First Name entry field, then press **ENTER** to isolate the first character space. Follow instructions for entering data as described on page 10.
3. Use the **ARROW** key to highlight the next field and repeat the process described in Step 2.
4. Once you reach the 'Phone Number' field, press **ENTER** to display the 'Change Type To' or "Swap With" option. Select one and press **ENTER** to display a list of entry categories. You can select any for entry.
5. To edit an entry, highlight the desired field and use the **KEYPAD** to enter new names, phone numbers, etc.
6. To view the Options menu for New and Review Entry Pages press the **MENU** key to display the menu. Duplicating an entry will display a number 2 after the name of in Contacts for the duplicated entry allowing you to record more information by expanding entry options.
7. To quickly access additional data pages, move the **ARROW** key to the Right. These pages hold additional information about each contact, either synchronized from Intellisync or manually entered.

Contacts Options

Contacts offers several options for storing and dialling phone numbers.

Delete All

This option allows you to remove all entries from Contacts.

Setting Up the Speed Dial List

Speed Dialling allows you to dial a selected Phone Number by pressing and holding a single **KEYPAD** key (1 through 9) for a total of nine Speed Dial Entries. Phone Numbers can be added from the New Entry or Edit Entry pages to the Speed Dial List page. The first entry on the list is reserved for the number used to dial your voice mail message service, while the ninth entry is reserved for an emergency number of your selection.

To set up and use Speed Dialling Numbers:

1. With Contacts Data Page displayed press the **MENU** key to display the Options Menu.
2. Use the **ARROW** key to highlight the View Speed Dial List option and press **ENTER** to display the Speed Dial List page, or add a number to the list directly from Contacts Entry page by choosing 'Add To Speed Dial' from the options menu.
3. Once an entry on the list is highlighted, pressing the **MENU** key will display the Entry Options Menu. From this menu, you can edit an entry, select a number from Contacts, edit using Contacts Entry page, call directly from the list, move the number on the list, swap the number with another on the list, or delete the entry.
4. To dial a Speed Dialling Number, press and hold the keypad number key corresponding to the Speed Dialling entry on the list (1-9).

Using Contacts



Add To Speed Dial
Option from Phone
Book Data Page
Options



Phone Book Data Page

Press and hold the
KEYPAD number to
one-touch dial the
appropriate number
on the list.

Use the Edit Number
option to change
both the name and
number of an entry.

Find the number in
Contacts

Enter a number to
the list or edit from
Contacts



Speed Dialling No's



Speed Dial Entry Options

Add Names and
Numbers to the
Speed Dialling
No's. list using
Contacts Entry
Page Options



Speed Dial List
Option

Use the Move To
and Swap With
options to edit
the Speed Dial
List.

Section 3

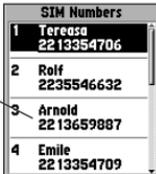
Phone Operation

Using Contacts

SIM Numbers List will recognize a number by the first few digits.



Entry Options Menu



SIM Dialling No.'s.

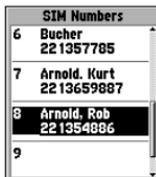


Page Options Menu

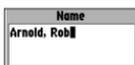
Saving a Name and Number To the SIM List.



Select a Number



Editing a Name and Number from the SIM List.



View SIM Numbers

The SIM Numbers feature allows you to dial numbers stored on the card that can be transferred to another SIM compatible phone. The total amount of numbers that can be stored on the SIM Card depends on the capacity of that particular card.

To use the SIM Numbers feature:

1. With Contacts page displayed press the **MENU** key to display the Options Menu.
2. Use the **ARROW** key to highlight the 'View SIM #'s' option and press **ENTER** to display the SIM Phone Numbers list. You can also dial a number from this list by pressing the **KEYPAD** key with the corresponding number on the SIM Dialling List followed immediately by the **#** key.

To Save a Phone Number to the SIM Numbers List:

1. With Contacts page displayed, highlight a name from the 'All' tab list and press **ENTER** to display the information page for that name.
2. Press the **MENU** key to display the Options Menu for that page.
3. Use the Down **ARROW** key to highlight the 'Save To SIM Numbers' option and press **ENTER**. If there is more than one phone number listed on the page, a prompt window will appear for you to select the desired number. Highlight the desired number and press **ENTER** to place the name and number on the SIM Numbers List.

To Edit a SIM Name or Number:

1. With the SIM Number page displayed press the **MENU** key to display the Options Menu.
2. Select 'Edit Name' or 'Edit Number' and press **ENTER** to display the edit window. Press **ENTER** to highlight the first character.
3. Change the name or number as desired and then press **ENTER**.

View Fixed Dialling Numbers

The Fixed Dialling Numbers list allows you to dial only those numbers on the list and is controlled by a pass code (PIN 2)

To set the Fixed Dialling Feature

1. Highlight the 'Settings' tab of the Main Menu, select the 'Phone' option and then press **ENTER** to display the tabbed index of features.
2. Use the **ARROW** key to select the 'Security' tab, then highlight the Fixed Dial Mode field and press **ENTER** to display the On/Off menu.
3. Select 'On' and press **ENTER** to display the PIN 2 Code Entry box.

To insert phone numbers on the Fixed Dialling Numbers list

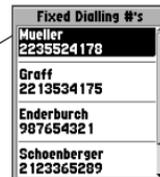
1. With Contacts page displayed press the **MENU** key to display the Options Menu.

To use the Fixed Dialling Numbers feature:

1. With Contacts page displayed press the **MENU** key to display the Options Menu.
2. Use the **ARROW** key to highlight the 'View Fixed Dialling No's' option and then press **ENTER** to display the Fixed Dialling No's List.

Using Contacts

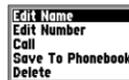
Fixed Dialling Numbers are the only numbers that can be dialled when this feature is active.



Fixed Dialling No's.



Page Options Menu



Entry Options Menu



Security Page
Fixed Dialling On/Off Field



PIN 2 Code Entry



Press ENTER to acknowledge

Section 3

Phone Operation

Using Contacts

Enter up to two user Phone Numbers

My Phone Numbers

| | |
|---|----------------------------|
| 1 | Anna Beck 213358745 |
| 2 | Roberto Lato 2213354621 |

Save All To Phonebook
Delete All
MENU for Main Menu
Page Options Menu

My Phone No.'s.

Name
Donno

Phone Number
213358745

Edit Name
Edit Number
Save To Phonebook
Delete

Save As First Name
Save As Last Name

Save as First Name or as Last Name

Do you really want to delete Roberto?
No Yes

Save a number to Contacts by pressing ENTER with this option highlighted

Use the Edit Name and Edit Number options to change both the name and number of an entry.

Entry Options Menu

Delete Prompt

Entering Dial Strings with (DTMF) Dual Tone Multi-Frequency Tones .

To automate dialling of numbers with extensions, pass codes, etc., you can enter Dial Strings that include DTMF Tones and 5 second pauses for recorded messages, connection delays, etc.

When entering a phone number in any directory: Contacts, Fixed Dialling, Speed Dialling, etc., press and hold the # key while pressing the 7 key to enter a 5 second pause (p) in the dialling sequence. You can place as many pauses as required to allow for recorded messages to complete before the next number sequence is dialled. It is recommended that you do not record bank account PIN's or credit card numbers for reasons of security.

My Phone Numbers

Contacts offers an option for recording your phone numbers for reference. The My Phone Numbers List will hold two numbers (often a business number and a personal number or two separate numbers for two different users of the same unit).

To place numbers in Contacts 'My Phone Numbers' List:

1. With Contacts page displayed press the **MENU** key to display the Options Menu.
2. Use the **ARROW** key to highlight the 'View My Phone #'s' option and press **ENTER** to display the 'My Phone Numbers' page. The first entry field will be highlighted.
3. Press **ENTER** to display the Entry Options Menu and observe the list of options; Edit Name, Edit Number, Save to Phonebook, and Delete.
4. Select Edit Name and press **ENTER** to begin entry of a name by using the **KEYPAD** keys. Press **ENTER** when entry is completed to return to the entry field.
5. Press **ENTER** again to display the option menu. Highlight 'Edit Number' and press **ENTER** to display the number entry page. Use the **KEYPAD** keys to enter the desired phone number and press **ENTER** when finished.
6. To save the newly entered Name and Number to Contacts, press **ENTER** to display the Options Menu again, select 'Save To Phonebook' and press **ENTER**.
7. To delete a Name and Number, press **ENTER** to display the Options Menu, select 'Delete', press **ENTER**, select 'Yes' from the Delete prompt and press **ENTER**.

Call History

You can review information about previously Dialed Calls, Missed Calls, Received Calls, Air Time for a call, and Call Cost. Any call can be redialed by highlighting it and pressing the **SEND** key.

Dialed Calls

A record of Dialed Calls are stored on this list to provide you with information about to who and when you have made phone calls.

To view Dialed Calls

1. Highlight Call History and then press **ENTER** to display the 'Dialed Calls' list.
2. Use the Up/Down **ARROW** keys to scroll through the list. Each entry lists the phone number, name of individual called (if listed in the Phone Book), and the time and date the call was made.
3. To redial, Send A Message, Save to Contacts, add to Speed Dial, or Delete a highlighted entry, press **ENTER** to display the Entry Options Menu.

Missed Calls

Missed Calls are those which were received by the NavTalk but not answered. If the caller had Caller Line id enabled you will see the Name and Number of the caller as well as the time and date of the call.

To view Missed Calls

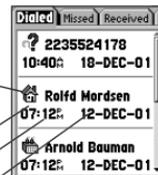
1. Highlight Call History and then press **ENTER** to display the 'Call History' tabs.
2. Use the Up/Down **ARROW** keys to scroll through the list. Each entry lists the phone number, name of individual called (if listed in the Phone Book or Caller id is enabled), and the time and date of the call.
3. To Call, Send A Message, Save to Contacts, add to Speed Dial, or Delete a highlighted entry that displays a phone number, press **ENTER** to display the Entry Options Menu.

Call History

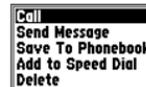
Icons next to a number indicate the location, Home, Office, Pager, Unknown, etc.

Dialed Number or Name from Contacts

Time of Call
Date of Call

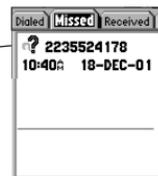


Dialed Calls List



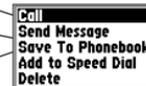
Call Entry Options Menu

Unidentified calls will be designated as Unknown (?)



Missed Calls List

Call the number
Send a Message
Save to the Phonebook



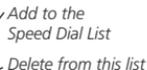
Call Entry Options Menu



Dialed Calls List
Options Menu



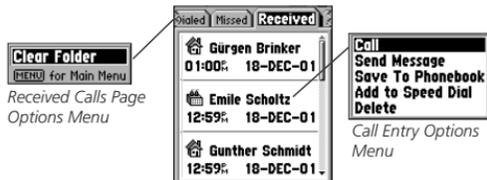
Missed Calls List
Options Menu



Section 3

Phone Operation

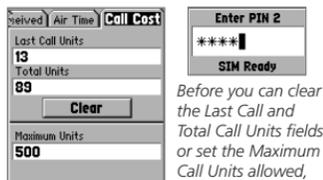
Call History



Received Calls



Air Time History



Call Cost

Received Calls

To view Received Calls

1. Highlight Call History and press **ENTER** to display the 'Received Calls' list.
2. Use the Up/Down **ARROW** keys to scroll through the list. Each entry lists the phone number, name of individual called (if listed in the Phone Book or CLIP is available), the time and date the call was made.
3. To redial a highlighted entry, press **ENTER** to display the Call Options Menu. You can choose from Call, Send Message, Save (or Edit) To Phonebook, Add To Speed Dial, or Delete options. Highlight an option and press **ENTER** to display the option page or complete the task.

Air Time

To view Air Time

1. Highlight Call History and then press **ENTER** to display the 'Call History' tabs. Highlight 'Air Time' and press **ENTER**.
2. Observe two time fields, one for the 'Last Call' and 'All Calls Since' the last time you cleared the time entries, and Total Minutes.
3. Use the Up/Down **ARROW** key to highlight the on-screen 'Clear' button to reset the 'All Calls Since' field.

Call Cost

To view Call Cost

1. Highlight Call History and then press **ENTER** to display the 'Call History' tabs. Highlight 'Call Cost' and press **ENTER** to display the Call Cost Page.
2. Observe the Accumulated Charge Meter (ACM) fields on this page to determine the units for the last call made, total units to date, and if you are approaching your pre-set maximum call units limit. Before clearing the accumulated units fields or setting a call unit limit, you must first enter your PIN 2 code.



Messages

You can send, receive and save messages in both voice and text form. Messages features are accessed from the Phone tab of the Main Menu.

Highlight 'Messages' on the Phone Tab Page and press **ENTER** to display the Messages Page. All features on the Message Page require support from your Network Provider, and in many cases a subscription.

Messages can only be sent to phones with Short Message Service capability. Messages received can be from any source capable of transmitting the message, i.e., another phone or your service provider. This includes notification of voice mail.

To send a New message:

1. Use the **ARROW** key to highlight the New button on the Message Page
2. Press **ENTER** with the 'New' button highlighted to display the New Message Page.
3. Use the **ARROW** key to highlight the "To:" field to enter a desired name from Contacts, or...enter the desired number in the adjacent data field using the **KEYPAD**. You must either enter the recipient's phone number or a valid name from Contacts.
4. Next move to the Message field press **ENTER** and begin to enter your message using the phone **KEYPAD**.
5. When the message is complete, press the **SEND** or **SAVE** button.

Note that: Information Messages are independent of this feature and are controlled and sent by your service provider. They will appear on their own page when you press the **MENU** key and select "View Info Messages'.

Set Signature

With the Messages page displayed, press the **MENU** key to display the 'Set Signature' option. Press **ENTER** to display the Set Signature dialog box. Enter a "From" type signature and press **ENTER**.



Messages



Message Page
Options Menu



Send Message
Options Menu



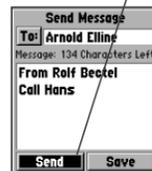
Phone Tab - Messages



New Messages



Select Recipient



Send Message



Set Signature
Entry

Save Message
Options Menu



Section 3

Phone Operation

Messages



Voice Mail Set Up Field



Dialling Voice Mail



Message Inbox List



Read Message List

Voice Mail Messages

To setup Voice Mail



Voice mail is a Network Service Provider operated feature and instructions for setting up voice mail will be given by your provider. Refer to page 60 for details on entering your voice mail number.

To check your Voice Mail:

1. Highlight the 'Voice Mail' button and press **ENTER** to dial your voice mail. Or... Simply press and hold the **1** key to dial it from the Speed Dial List
2. Press the **END** key when finished listening to your voice mail.

Message Inbox



The Message Inbox lists all messages received that are unread. It may also include voice mail notification.

To view the Message Inbox

1. Highlight the Inbox tab and press **ENTER** to view received messages.
2. To read a desired message, use the **ARROW** key to highlight it and then press **ENTER** to display the message. You will have three options to choose from: 'Reply', 'Forward', or 'Delete'. Once read, the message will move to the 'Read' page.

Read Messages

Once you open a message in the Message Inbox, it will automatically be saved for review in the 'Read' list.

To view Read Messages:

1. Highlight the Read tab and highlight the message you would like to review, then press **ENTER** to display the message.
2. To exit the displayed message, press the **END** key.

Using Numbers and Websites included in Messages

You can extract phone numbers and website addresses included in messages and save them to Contacts and Browser Bookmarks List respectively.

To call and save phone numbers included in Messages:

1. Highlight the desired message from the 'Inbox' or 'Read' list and press **ENTER** to display the message.
2. Press the **MENU** key to display the Options Menu for the Message Page. Highlight 'Use Number' and press **ENTER** to display a list of the first four recognized numbers in the message (three or more numerical digits).
3. Use the **ARROW** keys to highlight the desired number from the list and press **ENTER** to display the list of 'Use' Options. You can 'Call', 'Send a Message', 'Save To Contacts', or 'Add To Contacts'.
4. Highlight the option of your choice and press **ENTER** to initiate.

To view and bookmark websites included in Messages:

1. Highlight the desired message from the Inbox list and press **ENTER** to display the message.
2. Press the **MENU** key to display the Options Menu for the Message Page. Highlight 'Use Web Address' and press **ENTER** to move to the Browser 'Enter Address' window where you will be asked to enter the displayed web address.
3. Highlight the on-screen 'OK' button and press **ENTER** to display the web page on the Browser.
4. Press the **MENU** key to display the Browser page Options Menu, select 'Add To Bookmarks', and press **ENTER** to save the web address.

Messages



Message with phone numbers

Message Page Options Menu



Use Number Option



Selected Number Use Options



Number from Message saved to Phonebook



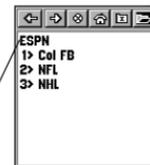
Message with website URL



Use Web Address Option



Enter Address Window



Website opened on Browser

Section 3

Phone Operation

Messages



Message Draft List



Sent Messages List

Message Drafts

You can create a message and save for transmission at a later time by storing it in the 'Drafts' list.

To view Message Draft:

1. Highlight the Drafts tab and then press **ENTER** to view the list of sent messages.
2. To read a desired message, use the **ARROW** key to highlight it and then press **ENTER** to display the message. You will have two options to choose from: 'Send' or 'Save'.

To send a Draft as a Message:

1. Highlight the Drafts tab and then use the **ARROW** keys to highlight the desired drafted message and then press **ENTER** to display the message.
2. Highlight the on-screen 'Send' key and press **ENTER** to send the message.

Sent Messages

Sent Messages are those which have been forwarded to the recipient as opposed to those which you have created and placed in the Draft List to be sent at a later date.

To view Sent messages

1. Highlight the Sent tab.
2. Observe the list of current Sent messages.

Message Templates

Message templates are messages that, once created, can be used over and over or sent to more than one recipient.

To create a Message Template

1. Highlight the on-screen 'New' button and then press **ENTER** to display the New Message dialog field.
2. Use the **ARROW** key to move to the field and then press **ENTER** to begin entering the first character of the text message.
3. Then highlight the on screen 'Save' button and press to display the save options menu. Highlight 'Save To Template' and press **ENTER**.

To use a Message Template

1. Highlight the desired pre-constructed message from the Template List and then press **ENTER** to display the Send Message page.
 2. Highlight the 'To' button and press **ENTER** to select a recipient from the message from Contacts or highlight the recipient field and enter a phone number, then highlight the 'Send' button and press **ENTER**.
- Or... while composing a message, press **MENU** and select 'Insert Template' and select a template to insert in your message.

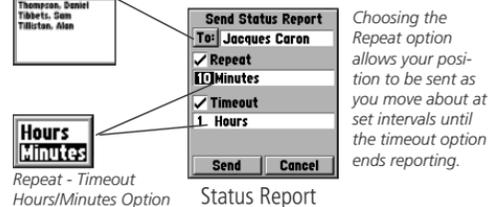
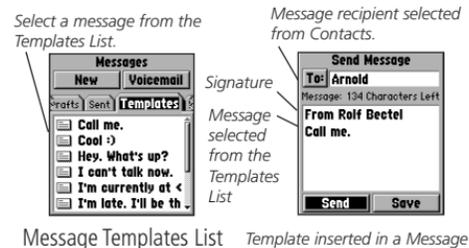
Reports

Reports allow you to report your position to another NavTalk unit. The Reports List displays those Status Reports.

To create a Status Report or a Status Request

1. Access the Messages Page from the Phone Tab of the Main Menu.
2. Select the 'New' button and press **ENTER** for the New Messages Page.
3. With the New Message Page displayed, press the **MENU** key to display the Options Menu, then select 'Status Report' and press **ENTER** to display the Send Status Report Page.

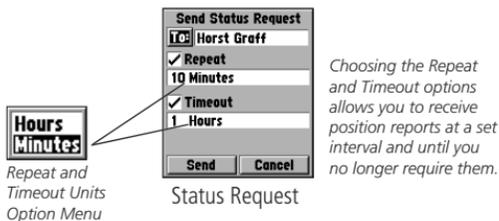
Messages



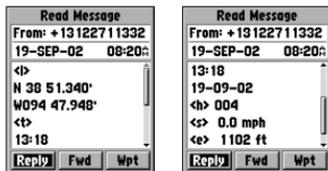
Section 3

Phone Operation

Messages



Status Request



Read Message -Status Request



Recurrences List

4. Highlight the 'To' button and press **ENTER** to display Contacts listing of names. Highlight the desired name and press **ENTER** and then select the phone number desired from those displayed for that name and press **ENTER** to place the name in the 'To' field on the New Message Page, or... use the **KEYPAD** to enter a phone number manually.
5. Next Highlight the Repeat Option and press **ENTER** if you want to repeat the Report. This will place a check mark next to the Repeat Option.
6. Highlight the number field just below the repeat check mark and press **ENTER** to and then use the **KEYPAD** to enter the number of desired units of time (minutes or hours). Then move to the adjacent field, press **ENTER** and select either Minutes or Hours then press **ENTER** again.
7. Move down to the Timeout field and press **ENTER** to place a check mark next to the Timeout option.
8. Use the **ARROW** key to highlight the number field below the timeout option and then use the **KEYPAD** to enter the units (minutes or hours) before the report stops repeating. Then highlight the unit field next to it and press **ENTER**, to select either minutes or hours and then press **ENTER** again.
9. To create a Status Request select Send Status Request from the New Message Options menu and repeat the steps explained above.

Recurrences

Allows you to view outgoing reports or requests that are set to repeat.

To view Recurrences

1. Highlight the Recurrences tab to display the Recurrences Page.
2. Observe the list of recurrences.
3. After selecting a recurring status report or request, you may choose to re-send or delete it. Otherwise messages on this list will continually be sent out at the set interval until they timeout.

Section 3

Phone Operation

MiniBrowser

The MiniBrowser uses Wireless Application Protocol (WAP) to provide access to a network of wireless websites (specially designed Internet sites). Because devices like the NavTalk have limited memory for caching (storing) recently downloaded information the MiniBrowser cannot use plug-ins, java-based features, or download anything. It can display some basic graphics, but these sites are designed to be small in size, load quickly and in general minimize waiting time. The list of sites for you to choose from is network dependent, if your service provider does not provide a gateway to sites, then you will need to know the URL (web address) for a site and enter it manually.

To Set Up the MiniBrowser:

1. Select the Settings Tab of the Main Menu, then highlight the Phone feature and press **ENTER** to display the Phone Settings tabs.
2. Use the **ARROW** keys to tab over to the 'Browser' tab.
3. Refer to page 61 for detailed information on Browser Settings.

To access the MiniBrowser:

1. Select the Phone Tab of the Main Menu, then highlight the MiniBrowser feature.
2. Press the **ENTER** key to display the MiniBrowser page. An 'Air Time' advisor window will pop-up. Select 'OK' and press **ENTER** to open the page.
3. The MiniBrowser will display your Home Page.
4. From this Home Page you can navigate the web using the toolbar at the top of the page.

MiniBrowser



Air Time
Fee Adviser

Phone Tab - MiniBrowser

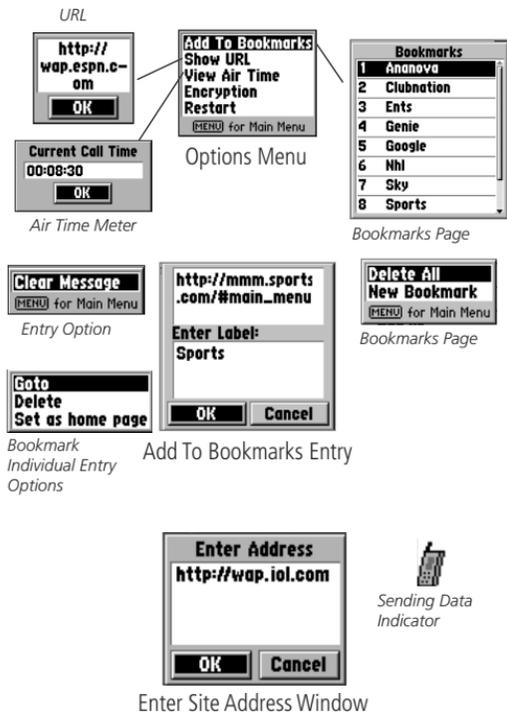


MiniBrowser Page

Section 3

Phone Operation

MiniBrowser



To use the MiniBrowser Page Options:

1. Select the Phone Tab of the Main Menu, then highlight MiniBrowser.
2. Press the **ENTER** key to display the MiniBrowser page. An 'Air Time' advisor window will pop-up. Select 'OK' and press **ENTER** to open.

Bookmarking a Site

1. With the web site open, press **MENU** to display the options menu.
2. Highlight 'Add To Bookmarks' and press **ENTER** to place the URL and label on the Bookmarks List.
3. To display the Options Menu for an individual entry, press **ENTER**.

Viewing a site URL

1. With the web site displayed, press **MENU** to display the options menu.
2. Highlight 'Show URL' and then press **ENTER** to display the URL dialog window. Press **ENTER** to close the window.

Viewing Air Time

1. With the web site displayed, press **MENU** to display the options menu.
2. Highlight 'View Air Time' and press **ENTER** to display the Current Call Time window. Press **ENTER** again to close.

Encrypting

1. With the web site displayed, press the **MENU** key to display the page options menu. Highlight 'Encryption' and press **ENTER** to begin.

Restarting the MiniBrowser

1. From the options menu, highlight 'Restart' and press **ENTER**.

To access a site by entering an address:

1. Use the **ARROW** key to highlight the Enter Address icon at the top right side of the page and then press **ENTER** to display the 'Enter Address' window. Enter the site URL and then press the 'OK' button.

PDA (Personal Digital Assistant) Style Applications

You can use these PDA style applications to manage your time and activities. Using the Intellisync Software Interface you can synchronize both PDA and PhoneBook data with your PC. Refer to instructions provided with the Intellisync CD-ROM provided with your NavTalk.

Using the Calendar

You can use the Calendar to mark important dates, setup a schedule, and place reminder messages for events on specific dates. When an appointment time on the list has past, it will automatically be deleted from the list. You can setup appointments for recurring events as well.

To mark a date on the calendar

1. Select 'Calendar' from the Main Menu PDA tab and press the **ENTER** key to display the Calendar page calendar
2. Use the **ARROW** key to move to the desired date on the calendar and then press **ENTER** to display the Appointment page for that day.
3. If there are no notes for that day and you want to create an entry, use the **ARROW** key to highlight the 'New' button and then press **ENTER** to display the 'New Appointment' page.
4. Use the **ARROW** key to highlight the From and To boxes and the beginning and ending times for the appointment **KEYPAD** keys to enter the beginning and ending times for the appointment. Then highlight the appointment description box and press **ENTER** to begin entering the description using the data entry methods explained on page 10.
5. Highlight and press **ENTER** to check the Reminders option if you want a reminder prior to an appointment. Highlight the reminder units field and press **ENTER** to access the units number entry, then use the keypad to enter the number of minutes, hours, etc. before the appointment .

Using the Calendar



PDA Tab - Calendar Page

Highlight the year or month:

Use the **RIGHT** Arrow to move forward in time

Use the **LEFT** Arrow to move back in time

Use the **ARROW** key to move the date box about on the page



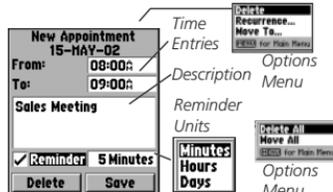
Calendar Page

Set to Current Date
View All Appointments
(ENTER) For Main Menu

Page Options Menu



Press **ENTER** with the month highlighted to display month options



New Appointment



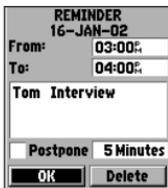
Appointments Page

Section 3

Phone Operation

Using the Calendar

A Reminder will turn the unit On, if necessary in order to signal the reminder note.



REMINDER
16-JAN-02
From: 03:00
To: 04:00
Tom Interview
Postpone 5 Minutes
OK Delete

You must clear a Reminder before the next reminder will signal.

Appointment Reminder Page



Delete
Recurrence...
Move To...
MENU for Main Menu

New Appointment Options Menu



None
Daily
Weekly
Monthly
Yearly



Interval Weekly
Every 1 Week(s)
On S M T W T F S
End On No End Date



No End Date
Select Date

End-On Options

Interval Settings Page for Appointment Reminders



Delete All
Move All
MENU for Main Menu

Appointments List Options Menu

6. Move to the units field and press **ENTER** to display the options list. Highlight the desired option and press **ENTER**.
7. When completed, press the **ENTER** key and then move down to highlight the 'Save' key and then press **ENTER** to save the appointment to the Appointments List Page.
8. Press the **MENU** key to view or use the Appointment Page options.

Using the Appointment Page Options

When setting up an appointment page you can choose from three options: Delete, Recurrences, and Move To.

To cancel an appointment:

1. Select the appointment from the list page and press **ENTER** to display the page.
2. Press the **MENU** key to display the options menu. Select 'Delete' and press **ENTER** to delete the page, or... use the page 'Delete' button..

To setup recurrences: (usually done for a new appointment)

1. With the New Appointments Page displayed, press the **MENU** key to display the options menu.
2. Select 'Recurrences' and press **ENTER** to display the Recurrences setup page. On this page you will observe and 'Interval' field with a default entry of "None". Press **ENTER** to display the list of interval options. When you highlight any other option than "None" and then press **ENTER**, to display the 'Frequency', 'Day of the Week', and 'End On' fields.
3. Highlight each field as required and enter the desired data. Press the **CLEAR** key to close.

To move an appointment to a new date:

1. Select the 'Move To' option and press **ENTER** to display the Calendar Page. Use the **ARROW** keys to move to the new date and press **ENTER**.

Using Tasks

You can use Tasks to record tasks, list them in order of importance, and the date by which they must be completed.

To create an item on the Task List:

1. Select Tasks from the Main Menu PDA tab and press the **ENTER** key to display the Task List Page.
2. Use the **ARROW** key to move to the New on-screen button and then press **ENTER** to display the New Task Details page.
3. Use the **ARROW** key to highlight the priority field, then press **ENTER** to display the priority number list (most important item first). Use the **ARROW** key to select the desired number and then press **ENTER**.
4. Use the **ARROW** key to highlight the Due Date field and then press **ENTER** to display the due date option menu. Select "Choose Due Date" and press **ENTER** to display a calendar page. Use the **ARROW** key and **ENTER** key to select a month, year and day. After the day is selected, the Task Item Details page will reappear.
5. Next, highlight the Task description box and press **ENTER** to begin entering the description. Use the **KEYPAD** keys to enter the description. Press the **#** key prior to the desired letter to create an uppercase character. Press the **0** key to create a space between words or number groups.
6. When completed, press the **ENTER** key and then move down to highlight the **'Done'** key and then press **ENTER** to save the item to the Task List.
7. To clear the Task List of items press the **MENU** key to display the 'Delete All' option and then press **ENTER**.

Section 3

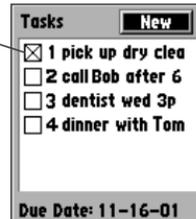
Phone Operation

The Tasks List



PDA Tab - Tasks

Highlight and press ENTER to check-off an entry.



Task List Page

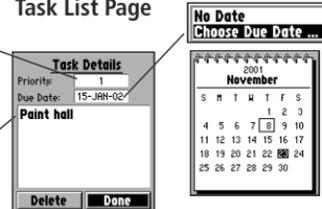


Due Date for Completion Option Menu

Priority Setting and Range



Data Entry Field



New Item Entry Page

Section 3

Phone Operation

Using Notes



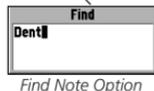
PDA Tab - Notes



Notes Page



New Note Entry Page



Find Note Option

Using Notes

You can use Notes to store important numbers, data, personal information, etc.

To create a note in Notes:

1. Select 'Notes' from the Main Menu PDA tab and press the **ENTER** key to display the Notes Page.
2. To view the contents of a note in detail, use the **ARROW** key to highlight the note on the page and then press **ENTER** to display the Note Detail page.
3. If there are no notes for that day and you want to create an entry, use the **ARROW** key to highlight the 'New' button and then press **ENTER** to display a new 'Note Detail' page.
4. Begin entering your note using the keypad as explained on page 10.
5. When completed, press the **ENTER** key and then move down to highlight the 'Done' key and then press **ENTER** to save the note to Notes List.
6. To view the Note Detail page for any note, select the on-screen 'Find' key and press **ENTER**. Then, use the keypad to enter a key word from the note to and then pre **ENTER** to display the 'Find Results' page with the details of your note.

Games

Games are provided as an entertainment feature.

To select and play a game:

1. Use the **ARROW** key to highlight the PDA Tab and display its list of features.
2. Highlight the 'Games' feature and press **ENTER** to display game choices.
3. Use the **ARROW** key to highlight your choice then press **ENTER**.

Blackjack - This is a classic card game of chance in which you play against the dealer. It is also sometimes known as twenty one with the object to see who can get as close to 21 points without going over (bust).

Rules of the game:

- With each new hand the first card is dealt to the dealer. The dealer's cards are shown at the top of the display and your cards are shown at the bottom.
- Face cards count as 10 points, number cards count as face value, and aces count as either 11 or 1 point.
- An ace and face card is blackjack and automatically wins against any other hand.
- If you and the dealer have the same score, neither wins.

To play Blackjack:

1. Use the **ARROW** and **ENTER** keys to highlight and press the on-screen buttons for Hit, Stay, Split, and Double Down.
2. Press the **MENU key** for the New Game option. Press **ENTER** to activate.

Playing Games

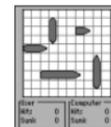


Game Selection List

PDA Tab - Games



Blackjack



Naval Assault



Beast Hunt



Blackjack Options Menu



Blackjack "Bust" Notice
Press ENTER to deal a new hand.

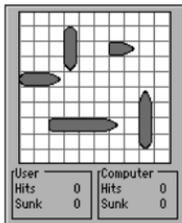


Blackjack - playing a Split Option

Section 3

Phone Operation

Playing Games



Naval Assault Game Page



Rotate Ship/ New Game Prompt



End of Game Message



Play Again Prompt

Naval Assault - This is a classic game in which you compete against the computer (the enemy) in a battle for naval superiority. By deploying your fleet and firing at the enemy's fleet on grid of squares (the playing field). The object is find and sink the enemy's fleet before they sink yours. Each side takes turns firing a round at a selected squares on the playing field.

To play Naval Assault:

1. Use the **ARROW** and **ENTER** to select Naval Assault from the list of games.
2. You will be prompted to begin deployment of your fleet. An aircraft carrier (5 squares long), battleship (four squares long), destroyer (3 squares long), submarine (3 squares long), and a gunboat (2 squares long). All placeable on the playing field in either a horizontal or vertical orientation. Use the **ARROW** keys to move your ships about. Press the **MENU** key to pop-up the rotation option.
3. When your ships have been deployed, press **ENTER** to begin firing. A blank playing field will display with the enemy ships deployed and hidden from view. Use the **ARROW** keys to select a square where you believe an enemy ship to be hidden.
4. Press **ENTER** to fire. A pop-up message will tell whether you missed or hit a ship. If a hit, it will tell you what type of ship was hit and round dot will display on that square. Misses are marked by an "X." After you have fired the display will show your fleet and where the enemy has fired.
5. Keep taking turns until either you or the enemy has sunk the other's entire fleet. At that point, a "Victory" or "Defeat" message will display.
6. At the end of the game you will be prompted to play another game or to quit.

Section 3

Phone Operation

Beast Hunt - This is a game of skill in which you must find and kill the dragon with an arrow before it incinerates you or you fall into one of several pits while navigating a maze of platforms. From time to time you will be transported by slides that curve or move diagonally. The game consists of several difficulty levels and an extended or limited visibility option. When you lose a game the screen will display the layout of hazards, slides and warning platforms. A scoreboard keeps track of your wins and losses.

To play Beast Hunt:

1. Use the **ARROW** and **ENTER** keys to select Beast Hunt from the Games list. When the display screen appears it will contain a list of skill levels.
2. Use the **ARROW** key to select the desired Difficulty level and press **ENTER** to display the Visibility Option Menu. Select Extended or Limited and press **ENTER** to begin the game.
3. Use the **ARROW** key to move about from platform to platform.
4. When you land on a light or dark grey platform you are near a pit or the dragon. If you plunder into a pit, you will fall to the bottom. If you move into the dragon, you will be incinerated by his fiery breath. These hazards will almost always be surrounded by grey platforms.
5. To kill the dragon with an arrow and win the game, stop on the dark grey platform you believe to be next to the dragon. Press **ENTER** to place an arrow on the platform, then use the **ARROW** key to point the arrow at the dragon and then press **ENTER** to fire the arrow. If you are on target, the arrow will strike and kill the dragon.

Game Symbols



Pit Warning Platform (1 around pits) - Light Grey



Dragon Warning Platform (2 around dragon)- Dark Grey



Pit and Dragon Warning Platform - Grey Stripes



Pit



Dragon



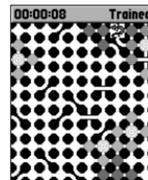
Arrow Platform

Playing Games

Game Page and
Difficulty Selection
List



Visibility Options



Maze displayed
at the end of a
session



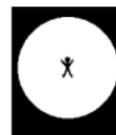
Maze showing
Warning and Arrow
Platforms



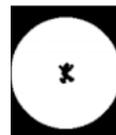
Scoreboard



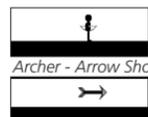
Dragon



Falling into a Pit



Hitting the Pit Bottom



Archer - Arrow Shot



Pit in Maze



Dragon
in Maze

Section 3

Phone Operation

Calculator



PDA Tab - Calculator



Standard Calculator



Calculator Type
and Units Options



Calculator Type
and Units Options



Scientific Calculator

Calculator

The calculator feature is available in two forms, Standard or Scientific. It operates in the same manner as any other calculator.

To use the calculator:

1. Use the **ARROW** keys to highlight the desired calculator key and then press **ENTER** keys to enter a number or function. The phone keypad # key also performs the = function. The keypad * acts as a decimal point.
2. To select the Standard or Scientific calculator function, press the **MENU** key to display the options menu.
3. From the options menu use the **ARROW** and **ENTER** keys to select the calculator type and method of angle measurement (Radians or Degrees).
4. To exit the calculator feature, press the **CLEAR** or **END** key.

Note that the **CLEAR** key clears the display if there are numbers displayed, otherwise it will exit the Calculator Page.

Settings- Phone Tabs

Highlight 'Phone' and press **ENTER** to display the Phone Tabs.

Setting Environment Profiles

Profiles allow you to program the NavTalk to perform appropriately for different environments by selecting the type of alert signals, volume levels for the earpiece, ringer, key presses, and activation of beeps, prompts, auto-answer and auto-redial features.

To select environment profiles:

1. Use the **ARROW** key to highlight the field at the top of the Profiles Page and then press **ENTER** to display the list of profiles.
2. Use the **ARROW** keys to move up or down the list of profiles to select the environment that you want to create custom settings for. Highlight and press the on-screen 'EDIT' button to display the Alerts, Volume and General tabs for that environment.

Alerts Settings

Alerts are features that provide signals for the different types of incoming events, such as Calls, SMS messages, Alarms, Data Calls, and Vibrate On/Off. The Ringer choices are: Standard Ringer, Ringers 1 -5, 10 Melodies, and Off.

To set a ringer for the event type:

1. Use the **ARROW** key to highlight the event field.
2. Press the **ENTER** key to display the list of choices.
3. Use the **ARROW** key to highlight your choice then press **ENTER**. When you select a ringer sound, it will play a sample for you to hear.

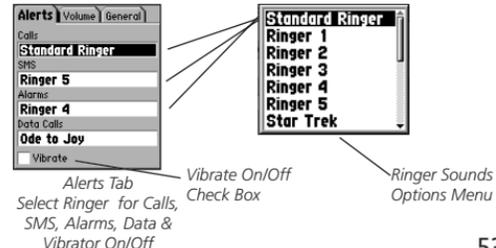
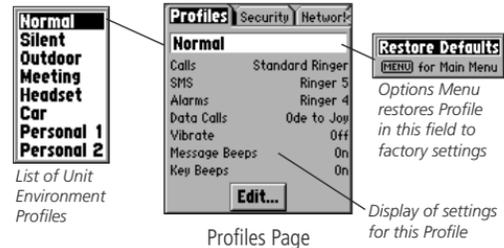
To activate/deactivate the vibrator alert feature:

1. Use the **ARROW** key to highlight the Vibrator text. Then press **ENTER** to place a check mark in the box to active. Repeat the process to deactivate.

Phone Settings



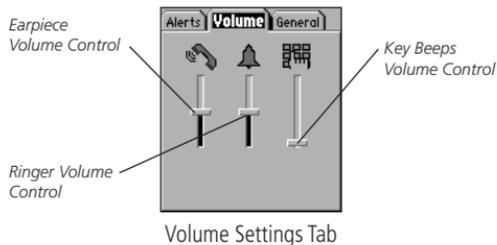
Settings Tab - Phone



Section 3

Phone Operation

Phone Settings



When using the Volume Up/Down keys to adjust the earpiece volume, this display will appear.

One press of the key opens the display and subsequent presses adjust the volume.

The display will timeout and close after a few seconds.



When you change the volume using this method, it will reset the earpiece volume for the environment profile currently in use.

Volume Settings

Earpiece Volume - Allows you adjust the earpiece volume to fit the environment profile you are creating.

Ringer Volume - Allows ringer volume for the particular profile being created.

Key Beeps Volume - Allows you to adjust the key beep volume as appropriate for the environment profile being created.

To set volumes for each control:

1. Use the Down **ARROW** key to highlight the volume control slider for the Earpiece.
2. Press the **ENTER** key to isolate the slider bar and then use the Up/Down **ARROW** key to adjust the Earpiece volume.
3. Use the Right **ARROW** key to highlight to the volume control slider for the Ringer.
4. Press the **ENTER** key to isolate the slider bar and then use the Up/Down **ARROW** key to adjust the Ringer volume.
5. Use the Right **ARROW** key to highlight to the volume control slider for the Key Beeps.
6. Press the **ENTER** key to isolate the slider bar and then use the Up/Down **ARROW** key to adjust the Key Beep volume.
7. Press the **ENTER** key to isolate the slider bar and then use the Up **ARROW** key to return to the Volume Tab, then press the Right **ARROW** key again to move to the 'General' tab to complete customizing the environment. Or...press the **CLEAR** key to return to the Profiles Page.

General Settings

Key Beeps - Allows you turn On a beep to indicate when a key has been pressed, or use DTMF tones. Multiple beeps indicate when a particular key is pressed that is inappropriate for the function desired. Or...you can turn Off all key beeps.

To set the Key beeps:

1. Use the **ARROW** key to highlight the field, then press **ENTER** to display the ON/OFF menu.
2. Use the **ARROW** key to highlight your choice and then press **ENTER**.

Message Beeps - Allows the NavTalk to beep when a message concerning unit operation is displayed.

Voice Navigation Prompts - Allows you to turn On or Off navigation voice prompts when using the Auto-Routing feature for notification of turns or events in a route.

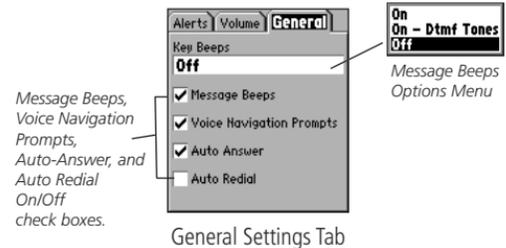
Auto Answer - Allows you to select and activate the Auto-Answer feature. Auto-Answer automatically connects the call without the need to manually press a key to answer an incoming call. This is of particular convenience when using the NavTalk Hands-Free Kit.

Auto Redial - This feature allows you to redial a number you are attempting to call when there is no answer during the initial call. The unit will automatically redial the number up to 7 times.

To turn On/Off the above mentioned features:

1. Use the **ARROW** key to highlight the desired feature and then press **ENTER** to place or remove the check mark from the adjacent box. A check mark indicates that the feature is active.

Phone Settings



NOTE: When an Auto-Redial number has been redialled repeatedly without connecting, the unit assumes that the number is not in service and places it on a blacklist. If you attempt to dial a number that has been placed on the blacklist, a message will appear to indicate that the number is on the blacklist and cannot be dialed.

Another message will appear when the list is full. The list resets itself each time the unit is turned On.

Section 3

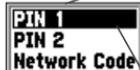
Phone Operation

Security Settings

PIN Request
On/Off Menu



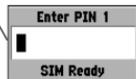
Change Code
Options Menu



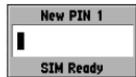
Fixed Dialling
On/Off Menu



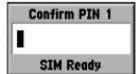
Security Page



Enter Current
PIN 1 Code



Enter New
PIN 1 Code



Confirm New PIN 1
Code

NOTE: To discourage theft of your NavTalk, each unit is assigned an International Mobile Equipment Identity (IMEI) number that must be recognized by service provider systems before any type call is allowed. If your unit is stolen, report it immediately to your service provider along with the IMEI code found in the options menu of the Display Setting Page (Page 96 of this manual)

Security

Security features can prevent unauthorized use and provide privacy and restrictions for use of certain phone features.

PIN Request Mode - Allows you to set the Personal Identification Number request to On or Off. The On mode requires that you enter the PIN code before the NavTalk will become functional. You must also enter the PIN code before turning this mode Off.

Fixed Dialling Mode - Allows you to set Fixed Dialling Mode feature to On or Off using the PIN 2 code. When Fixed Dialling is On, only those phone numbers on the List may be called using the NavTalk.

Change Codes - Allows you to change the access codes for PIN 1, PIN 2 and the Network. Your service provider can set the PIN 1 code and PIN 2 code initially and inform you of the number sequence.

To change a code

1. Highlight the Change Code Field. "Select Code" will be highlighted.
2. Press the **ENTER** key to display the Code Options Menu.
3. Select the code you want to change and press **ENTER** to display the Enter Code Box.
4. Enter the current code for PIN 1, PIN 2, or the Network and press **ENTER** to display the New Code Box.
5. Enter the new code and press **ENTER** to display the Confirm Code Box.
6. Re-enter the new code and press **ENTER** to complete the code change.

Unblocking the SIM Card - If you fail to enter the correct PIN code three times in secession a "SIM Card Blocked" message will appear and you now must enter the Pin Unblocking Code (PUK) in order to restore service. Your Service Provider can supply the required PUK code.

Network

Network settings allow you to determine network preferences, view the status of the current network operator, select a network, and enable/disable the Service Indicator (LED).

Network Selection - When Roaming outside your home network this feature allows you to determine whether you want the NavTalk to select a network automatically or allow you to choose a network of your own choice. Highlighting this field and pressing **ENTER** will display the Searching for Network Page

Preferred Networks - Allows you to choose a network from a list of preferred networks that you have created and stored in the unit or that have been programmed into the SIM card.

To enter preferred networks to the selection list:

1. Use the **ARROW** key to highlight the Preferred Network field and press **ENTER** to display the Preferred Network List.
2. Use the **ARROW** key to move to an empty slot on the list and press **ENTER** to start the entry process. Use the **KEYPAD** to enter the code for the network. The network name will appear above the entered code.

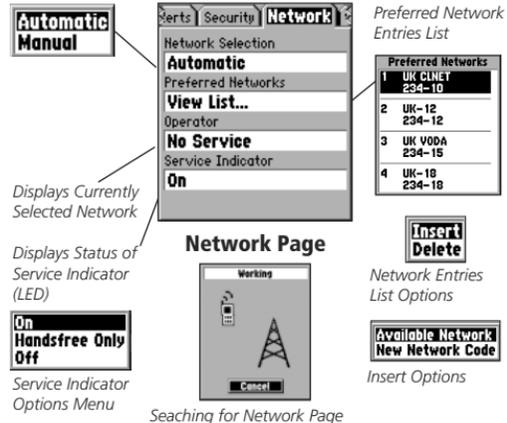
To select a network from the preferred networks list:

1. Select 'Manual' from the Network Selection Field Options.
2. Highlight the Preferred Networks field and press **ENTER** to display the list of networks. Highlight the desired network and press **ENTER**.

Operator - Displays the current network operator selected from the network list or a network automatically selected while roaming.

Network Settings

Network Selection
Options Menu

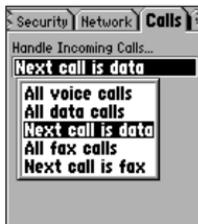


Service Indicator - Controls the LED that signals the Service Status. The Options Menu allows On for display, On for display only when connected to the Handsfree Kit, and Off.

Section 3

Phone Operation

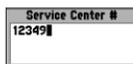
Calls Settings



Calls Page

SMS Settings

Service Center
Number Entry Field



Messages Valid
For:
Options Menu



Text
Fax
Paging
E-Mail
Voice
X.400
ERMES

Messages Format
Options Menu



SMS Page



Recipient Replies Through:
Options Menu



SMS Page Options Menu

Calls Settings

The Calls Settings page allows you to determine, in advance, how incoming calls are to be negotiated by the phone.

To select a call handling option:

1. Use the **ARROW** key to highlight the Calls tab on the Phone feature of the Main Menu Settings Tab to display the Calls page.
2. Use the **ARROW** key to highlight the 'Handle Incoming Calls' field and press **ENTER** to display the list of options.
3. When "Next Call is Data" or "Next Call is Fax" are selected they will default back to "All Voice Calls" after the call has been handled.

Short Message Service (SMS) Settings

Short Message Service allows you to send a text message to any individual with SMS enabled on their phone and allows you to determine parameters for sending SMS messages.

To set up the SMS message service:



1. Use the **ARROW** key to highlight the SMS tab on the Phone feature of the Main Menu Settings Tab to display the SMS page.
2. Use the **ARROW** key to highlight the 'Service Center #' field and press **ENTER** and begin using the **KEYPAD** keys (as explained on page 10) to enter the number of the service center providing you with SMS service. Press **ENTER** when finished.
3. Use the **ARROW** key to move down to highlight the 'Messages Valid For' field. Press **ENTER** to view the Options Menu. You can choose from 1 Hour, 12 Hours, 1 Day, 1 Week, and Maximum Time. Use the **ARROW** key to highlight your selection and then press **ENTER**.
4. Follow the instructions in Step 3 to select an option from the list for the 'Message Format' field. You can choose from Text, Fax, Paging, E-mail, Voice, X.400, and ERMES.
5. Use the **ARROW** key to highlight the 'Recipient Replies Through' field. Press **ENTER** then use the **ARROW** key to select an option.

Messages Settings

Info Message Categories - Allows you to enter the desired categories for Info Messages. If this feature is available, your network provider will supply you with a list of categories to choose from.

Info Message Languages - This feature allows you to determine the language of received Info Messages. You can choose from ten languages.

Voice Mail Number - This feature allows you to view the Voice Mail number provided by your service provider. This allows you to autodial your voice mailbox by pressing and holding the #1 key and dialling from the Speed Dial List. This number can be read off your SIM card or from your phone and it will automatically be placed in the Voice mail # field on the Message page and key number1 position on the Speed Dial List.

SMS Emergency Number - This feature allows you to enter a specific phone number that you want dialled when pressing and holding the **NINE** key to auto-dial the number which sends an SMS message.

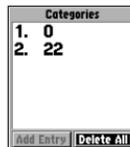
If you want to insert your own message, you may enter it in the message box or insert a template from the templates list. However, if you delete the '<L>' and '<T>' characters from the message, your location will not be sent with the message. When your message is actually sent, your phone number, the time, and your current location is also included. Note that the time and location do not update if you are moving, unless you send the Emergency call again.



NOTE: All of these entries are dependent on whether or not you have subscribed to that particular service.

Messages Settings

List of Info Message Categories.



Voice mail Number is read off your SIM card.



Info Message Language List.



Info Message Language Options Menu.

Enter an Emergency Number and Message.



SMS Page

When the message is sent, the time and your location is included.



Section 3

Phone Operation

Browser Settings

SMS Messages **Browser**

Home page
http://mmm.sports.com
Connection Settings
Edit...

Enable fee warning
 Require authorization
 Enable push content

Highlight each field and then press ENTER to display the data entry page for each.

Enter Address

http://

OK Cancel

Highlight each box and then press ENTER to place a check mark to enable these options.

Home page

http://mmm.sports.com

Home Page Dial Up Number entry page.

Connection Settings Set Up page.

Connection Settings

Dial-up Number
31254141

Username
Gunther

Password
Swipe

IP Address
000 000 000 000

Port Number
0

Browser Settings

Home Page - Allows you to enter the home page URL or address that you would like to call each time you use the Browser.

1. Highlight the 'Home Page' field and press **ENTER** to display the 'Home Page' dialog window.
2. Use the data entry methods explained on page 10 to enter the Home Page URL. Press **ENTER** when finished.

Connection Settings - This feature is controlled and set up by your cellular service provider. You may not be able to open this page if your service provider has already initialized these settings.

Enable Fee Warning - This feature allows you to activate/deactivate a pop-up warning window prior to each time you use the Browser

Require Authorization - This feature allows you to require an authorization code prior to active use of the Browser. The authorization code you will be prompted to enter will be your PIN 2 code. See page 56 for information on PIN codes.

Enable Push Content - This feature allows you to enable/disable certain types of internet communications such as advertisements, announcements, etc.

To enable Fee Warning, Authorization and Push Content:

1. To enable/disable the three options discussed above, use the **ARROW** keys to highlight each option individually. Press **ENTER** to place or remove the check mark next to the option. A check mark signifies "enabled".

Call Services

You can program a variety of call services to help you make more efficient use of your phone such as, 'Call Diverting', 'Call Barring', 'Call Waiting', and a Setup Page to set parameters for these services.

Using Call Divert



1. Highlight 'Call Services' from the Main Menu and press **ENTER** to display the tabbed Call Services Pages.
2. Use the **ARROW** key to highlight the 'Call Divert' tab and then press **ENTER** to display the Divert List.
3. Use the **ARROW** key to highlight options on the list. As each option is highlighted, a description will be displayed at the bottom of the page.

Choose any or all from the list below...

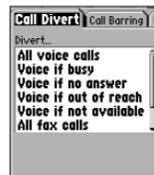
- **All voice calls** - to send all voice calls to a number you have specified.
- **Voice if busy** - to divert voice calls to the specified number only when your phone is busy.
- **Voice if no answer** - if you don't want to answer your phone and prefer to send the call to the specified number.
- **Voice if out of reach** - if out of your service area or the phone is Off.
- **Voice if not available** - if your phone is busy, there is no answer, you are out of your service area, or the phone is turned Off.
- **All fax calls** - to send all fax calls to the specified number.
- **All data calls** - to send all data calls to the specified number.
- **Cancel all divers** - to cancel all voice, fax, and data call divers.

4. Press the **ENTER** key to pop-up the options menu and use the **ARROW** keys to choose from 'Activate', 'Cancel', 'Check Status' or 'Set Delay'. Press the **ENTER** key to confirm your choice or press **CLEAR** to return to the Call Divert list.

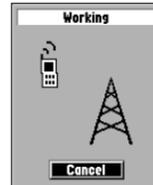
Call Services



Settings Tab - Call Services



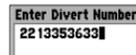
Call Divert Tab with
List of Options



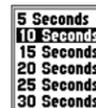
Call Divert Activation Page



Call Divert Options Menu



Enter Divert Number Field
(i.e. Voice Mail or other number)



Set Delay Options List

Section 3

Phone Operation

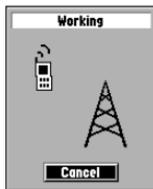
Call Services



Call Barring Tab with List of Call Types to Bar



Call Barring Options Menu



Call Barring Activation Page



Using Call Barring

1. Highlight 'Call Services' from the Main Menu and press **ENTER** to display the tabbed Call Services Pages.
2. Use the **ARROW** key to highlight the 'Call Barring' tab and then press **ENTER** to display the Call Barring List.
3. Use the **ARROW** key to highlight options on the list. As each option is highlighted, a brief description of its function will be displayed in the field at the bottom of the page.

Choose...

- **All outgoing calls** - to restrict any outgoing calls using the phone.
 - **International calls** - to restrict any outgoing international calls.
 - **Int'l if not home** - to restrict international calls to your home country only.
 - **All incoming calls** - to restrict all incoming calls.
 - **Incoming if roaming** - to restrict all incoming calls if roaming outside your home network.
 - **Cancel all barrings** - to cancel all call restrictions.
4. Press the **ENTER** key to pop-up the options menu and use the **ARROW** keys to choose from 'Activate', 'Cancel', or 'Check Status'. Press the **ENTER** key to confirm your choice or press **CLEAR** to return to the list.



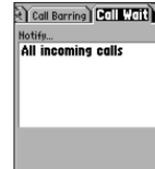
Using Call Waiting

1. Highlight 'Call Services' from the Main Menu 'Settings' tab and press **ENTER** to display the tabbed Call Services Pages.
2. Use the **ARROW** key to highlight the 'Call Waiting' tab and then press **ENTER** to display the Call Waiting Page.
3. Use the **ARROW** key to highlight 'All incoming calls'. A "Select this to notify of all incoming calls" message will appear at the bottom of the page.
4. Press **ENTER** to pop-up the menu. Highlight 'Activate', 'Cancel', or 'Check Status' and then press **ENTER** to confirm.
5. An activation page will appear if you selected 'Activate'. This page will cycle off when the activation message has been received by your service provider. Press **CANCEL** to stop activation before the page cycles off.

Section 3

Phone Operation

Call Services



Call Waiting Page



Call Waiting Options Menu



Call Waiting Activation Page

Section 3

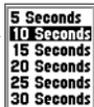
Phone Operation

Call Services

Send Own
Number Option



Default Divert
Delay Options



Call Services Setup Page



Using the Call Services Setup Page

1. Highlight 'Call Services' from the Main Menu 'Settings' tab and press **ENTER** to display the tabbed 'Call Services' Pages
2. Use the **ARROW** key to highlight the 'Setup' tab and then press **ENTER** to display the call Setup Page.
3. Use the **ARROW** key to highlight 'Send Own #' field, press **ENTER** to display the On and Off option. Use the **ARROW** key to highlight your choice and then press **ENTER**.
4. Highlight the Default Divert Delay field and press **ENTER** to display the list of delay options. Highlight your choice and press **ENTER**.

Section 4

GPS Navigation

GPS Overview

The GPS portion of your unit provides a method for navigation using a system of overhead satellites to determine your location on the earth, combined with a mapping database. Other built-in features allow you to record waypoints (landmarks and destination points), find destination points, (cities, points of interest, waypoints, etc.), chart your progress, and monitor details such as speed, direction, and elapsed time.

Each time you turn on the unit, it must determine its location. The first time you use your unit, this may take from five to fifteen minutes. After first use, the unit should determine your location in less than one minute. While the unit is collecting satellite information, a “searching for satellites” window will appear in the lower left corner of the display.

When your location has been determined, the Map Navigator Page will state “Ready To Navigate” and display Cardinal letters (North, South, East, West) and your current location will be shown on the map above it.

If there are not enough satellites in view to determine its location, the unit will display a “Poor Satellite Reception” message with four options. A brief explanation for each option will appear when it is highlighted.

Use the **ARROW** keys to highlight the logical option and then press the **ENTER** key to activate it.

If the time displayed in the time field on the Map Page is not correct, you will need to set the time for your current location. Whenever the unit is operating with GPS On, a Battery Life warning will appear. Press **ENTER** to acknowledge.

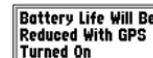
The GPS Features Pages



GPS Tab - Features Page



Poor Satellite Reception Message with List of Options and Instructions



Battery Life Warning Message



Searching for Satellites Window

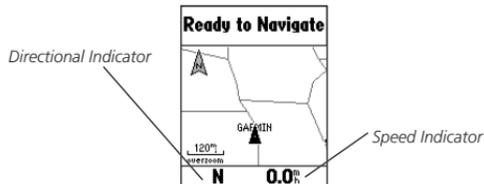
Section 4

GPS Navigation

Using the Map Navigator Page



GPS Tab - Map Navigator Page

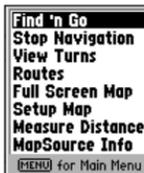


The Map Navigator Page



When Not
Navigating

When Navigating
a Route



The Map Navigator Options Menu

Using the Map Navigator Page

The Map Navigator provides graphic display for the three methods of unit navigation:

Goto - A direct path to a map location, (waypoint, city, address, etc.)

Travel when not on a Goto - This is best described as travel without entering a destination in the unit. The Map Navigator displays your real time movement as you travel with the unit turned on and receiving satellites. It can be saved (logged) as a Track.

Auto-Routing - A path of travel to a selected destination using existing roads that is automatically placed on the map. Auto-routing also provides text directions at the top of the display indicating direction to go and when to make turns. Using an earpiece or the Handfree Kit with remote speaker, you can receive voice commands for each change in direction.

The Map Navigator Page Options Menu provides you with a variety of features to enhance your navigation capabilities. You can modify the map display to fit your needs by changing to a full screen and selecting from a variety of setup options that control map item display, text size and other features.

Section 4

GPS Navigation

Map Navigator Page Data Fields

Several Data Fields support the Map Navigator and consist of the following elements.

Direction Field

There is one direction field, providing direction information dependent on whether you are stopped while navigating, navigating to a destination, or traveling without a recorded destination.

Direction To Go (N. S. E. W.) - Cardinal letters indicate the direction to go when starting out or to resume after having stopped while on an active Goto, Track or Route. These letters can be changed to degrees.

Speed Field

Speed - Your rate of travel can be displayed in miles per hour, kilometers per hour, or nautical miles per hour.

Distance To Go Field

Distance - When on a route to a destination, the distance remaining to the destination will be displayed in the left side of the field below the map.

Time Remaining Field

Time - The time remaining until you reach your destination, at your current speed, is displayed in the right side of the field below the map.

Route Instructions Field

Instructions - When traveling a route to a destination, the field at the top of map will provide you with directions for streets and highways as well as when to make turns in the route.

Map Page Data Fields

Direction Field



Direction you are heading when navigating without a predetermined destination

Speed Data Field



Current Speed

Direction Field



Distance and Time to go fields

Section 4

GPS Navigation

Map Display

Position Icon



The Position Icon displays in the center of the Map Page and indicates your current location.

Accuracy Circle



The Accuracy Circle defines your location by placing the position icon with the confines of the circle.

The size of the circle is determined by map resolution and current GPS receiver accuracy. The smaller the circle the more accurate your location.

The Map Display

The map display shows your present position and direction of movement as a triangular 'Position Icon' in the center of the map. As you travel, the map display leaves a "trail" (track log) of where you've been. The map display also shows the map scale and geographic details such as lakes, rivers, highways, and towns.

Use the **UP** and **DOWN** keys to change the map scale to show more map area with less detail, or less map area with more detail. Press and hold to zoom the map scale rapidly.

In many instances the map will display an 'Accuracy Circle' surrounding the 'Position Icon'. The unit uses both map resolution and GPS accuracy in defining your location to a point within the circle. The smaller the circle, the more accurate your location.

More detailed map features as well as information about those features can be displayed using map data transferred from a GARMIN MapSource CD-ROM. When using MapSource data, the word "MapSource" will appear below the map scale whenever you zoom in to view map details.



NOTE: When you use the GPS feature for the first time. It may take up to five minutes to find your location. After that, it will take about 15 to 45 seconds to locate your position.

The Panning Arrow (Map Pointer)

The Panning Arrow is controlled by the **ARROW** keys and is used to identify map objects and move the map in order to view areas of the map not currently within the display. The Panning Arrow can be used to establish a 'Point of Reference' when measuring distance between map items. It can be used to create a waypoint or to move a waypoint to a new location. Press the **ARROW** keys at an angle to move diagonally. Press and hold the **ARROW** keys to move to new areas of the map. Press the **CLEAR** key to cancel the panning arrow.

Using the Panning Arrow:

The Map Page pan function allows you to display an arrow to point at and identify items on the map, and to move the map in order to view areas beyond the current viewing area on the display.

The pan function is activated by the **ARROW** keys which move the arrow in the desired direction. As the arrow moves to the edge of the display screen the map will also move to reveal more map area. When moving to the edge of the display, the map will take some time to draw the new area of the map. An hourglass will display in place of the panning arrow when the map is redrawing.

Pressing the **CLEAR** key cancels the pan function.

The detail of map features will be enhanced when you are using MapSource information loaded on a map data card. When using any map data, whenever the panning arrow is placed on a map item, the name of the object will be highlighted. This feature applies to waypoints, roads, lakes, rivers...almost everything that is displayed.

The Panning Arrow or (Map Pointer)



The Panning Arrow



ARROW key



The Panning Arrow moves about on the Map Page as you press the ARROW key in the desired direction.

Section 4

GPS Navigation

The Panning Arrow



Highlighted Map Item

When the Panning Arrow is moved to a map item, it will be highlighted for 5 seconds.



Item Information Page

With the Panning Arrow on a map item, press the **ENTER** key to display the information page for the item.

To find details about a map item:

1. Move the panning arrow to the map item when you want to learn more about that item.
2. When the item's name is highlighted, press and release the **ENTER** key to display the Information Page for that item.

The information page is type specific with such titles as 'Address', 'City', or 'Exit' followed by a name and description field, a distance field, and on-screen buttons. Press the **MENU** key to display the 'Save as Waypoint' option to mark this item as a waypoint.

You can also use the panning arrow to measure the distance between two map items as explained in the section titled "Measure Distance" on page 75.

When using the panning arrow on the map page and pressing the **MENU** key and then selecting 'Find 'n Go' from the options menu, the Find Menu will display items with the panning arrow (map pointer) location used as a reference for distance. The Find Menu will display "Using Map Pointer" just beneath the page title.

Zooming In and Out

Use the **IN** and **OUT** keys to Zoom (adjust) the map scale, which is displayed at the bottom of the Map Page.

To change the map scale:

1. Press the **IN** key to Zoom In and select a scale that shows more detail for a smaller map area.
2. Press the **OUT** key to Zoom Out and select a scale that displays a larger map area, but with less detail.

The map scale is shown in the lower left corner of the map display area. The scale is shown in the unit of measure selected from the 'Units' field of the 'Display' Settings page. Refer to page 96 for setup details.

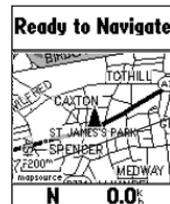
It is possible to zoom in so far that the resolution of the map data is exceeded and the appearance of the map will no longer be accurate. When this occurs, the word "overzoom" will appear just below the map scale.

When using a map data downloaded from a CD, the word "MapSource" will appear below the map scale when you zoom in to see more detailed map features. When driving on city streets within a MetroGuide or other MapSource coverage area, more detailed map scales (500 to 100 meters) may be preferred since they provide a good view of all streets and not just major roadways. When traveling on major roadways (highways and Interstates) map scales of two kilometers or more may be more practical.

With certain types of MapSource data, such as MetroGuide data, the unit may match your location to roads on the map. In these instances, the 'Accuracy Circle' (discussed on page 68) will not be shown.

Zooming & Map Scales

Press and release the Zoom IN key to view less map area with more detail by increments. Press and hold it to zoom in rapidly.



Zoom In Key
and map scale

Zooming In

Press and release the Zoom OUT key to view more map area with less detail by increments. Press and hold it to zoom out rapidly.



Zoom Out Key
and map scale

Zooming Out

The Map Scale is displayed in the lower left corner of the map page

If you have downloaded additional map data, "map source" will display below the scale.

If you zoom in beyond the map data's resolution then "overzoom" will appear beneath the scale.

1200k
mapsource

200m
mapsource

30m
overzoom

Map Scales

Section 4

GPS Navigation

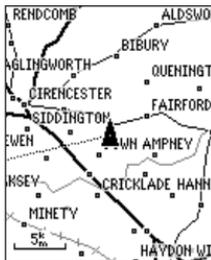
Map Navigator Page Options



Options Menu



Find Menu



Full Screen Map

The Map Navigator Page Options

Map Navigator Page options allow a variety of operating and customizing features for the unit. Pressing the **MENU** key from the Map Page will display the Map Navigator Page Options Menu. Many are replaced by another option when they are selected, while others are methods of canceling an option when you no longer need it.

You can choose an option by highlighting it and pressing the **ENTER** key.

Find 'n Go - This 'Find' option allows you to locate and Goto a waypoint or other map item. Refer to "Find 'n Go" on page 77.

Stop Navigation - The 'Stop Navigation' option stops any active Goto navigation. The option will appear gray and cannot be selected if there is no active navigation. When activated the 'Stop Navigation' option will be replaced by a 'Resume Navigation' option.

View Turns - This feature is only available when navigating an automatically generated route and displays a list of turns in the route.

Routes - This feature allows you to save a current route or to access previously traveled routes that are stored in the unit. Refer to page 85 for more information.

Full Screen Map - The 'Full Screen Map' option uses the full screen to display the map. This option is replaced by 'Show Data Fields'.

To display a 'Full Screen Map':

1. With the Options Menu displayed, highlight 'Full Screen Map'.
2. Press the **ENTER** key and the Map Page will display a full screen map.
3. To return to a Map Page with data fields displayed, repeat the process. You will notice that the 'Full Screen Map' option now reads 'Show Data Fields' When this option is highlighted and the **ENTER** key is pressed the page will display the data fields again.

Map Page Settings

The Setup Map Options displays the Map Setting Pages. Map Settings pages determine how the map is displayed, allowing you to custom tailor the map display.

Common Settings

Text - Specifies the text size for a displayed map item. Selecting 'Off' will turn off the text display for that item.

AutoZoom (also Zoom) - Specifies the maximum map scale at which a map item will be displayed. If 'Auto' is selected, the maximum map scale will be determined by the 'Detail' setting to prevent map clutter.

Map Options

Detail - Adjusts the amount of map information, such as roads, that is displayed. 'Most' shows maximum detail and 'Least' shows minimum detail. The higher level of detail, the slower the map redrawing time.

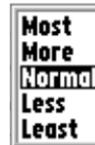
Orientation - Selecting 'North Up' will display the map with North at the top. Selecting 'Track Up' will automatically rotate the map to keep your current direction of travel at the top of the screen. A 'North' indicator is displayed on the map when in the 'Track Up' mode.

Color Mode - Allows the selection of either Land or Water Modes to display map features on a light (Land) or dark (Water) background

AutoZoom - When 'On', this option will automatically adjust the map scale to show both your current location and the next item to which you are navigating.

Map Navigator Page Options

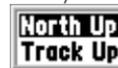
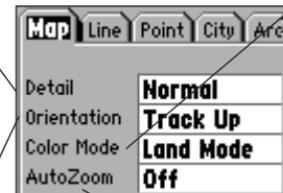
Detail
Options Menu



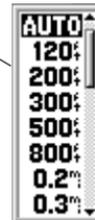
Color Mode
Options Menu



Map Options



Orientation
Options Menu

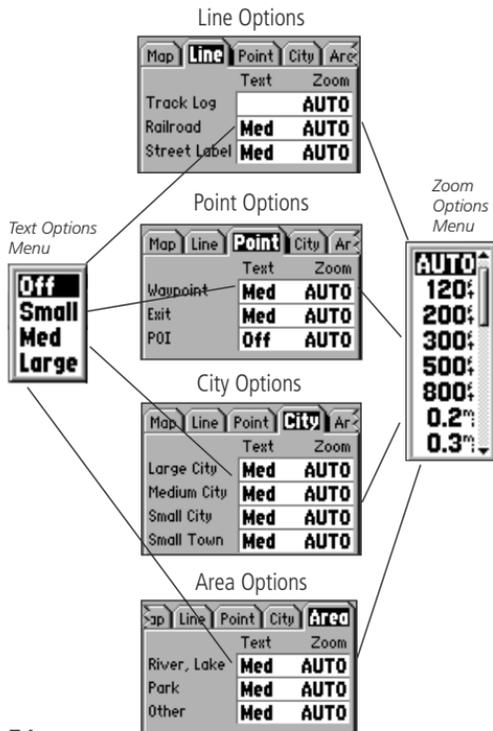


AutoZoom Scale
Options Menu

Section 4

GPS Navigation

Map Navigator Page Options



Line Options

Track Log - Controls the display of the 'Track Log' on the map.

Railroad - Controls the display of the Railways on the map.

Street Label - Controls the display of street names on the map.

Point Options

Waypoint - Controls the method for display of waypoints on the map.

Exit - Controls the method for displaying highway exits on the map.

Points of Interest - Controls the display of points of interest on the map.

City Options

Large City - Controls the display of large cities on the map.

Medium City - Controls the display of medium sized cities on the map.

Small City - Controls the display of small cities on the map.

Small Town - Controls the display of small towns on the map.

Area Options

River, Lake - Controls the display of river, lakes and other bodies of water on the map.

Park - Controls the display of parks and other public lands on the map.

Other - Controls the display of all other land forms.

The Map Setup Options can also be accessed from the Settings Tab of the Main Menu.



Section 4

GPS Navigation

Measure Distance - The 'Measure Distance' option allows you to view the distance and direction from your current location to another location on the map or from one map location to another. In addition the directional bearing from your current location is shown as well as the coordinates for that other location.

To use the 'Measure Distance' feature:

1. With the Map page displayed, highlight and select 'Measure Distance' from the list of options.
2. Press the **ENTER** key. A field for distance will appear at the top of the map.
3. Move the panning arrow to the location you want to measure from and press the **ENTER** key.
4. Move the panning arrow to the location you want to measure to and the distance information will be displayed in the field.
5. Press the **CLEAR** key or select 'Stop Measuring' to exit this feature.

Routes - You can create a route to a destination with Turn-By-Turn directions and then save it for reuse. Refer to page 84 for details on creating and saving a route.

To Select a Route from the Saved Routes List:

1. With the Map Navigator Page displayed, press the **MENU** key to "pop up" the page Options Menu.
2. Use the **ARROW** key to highlight the "Routes" option and press **ENTER** to display the Routes Page.
3. Highlight the desired saved route from the Saved Routes field and press **ENTER** to display that route on the Map Navigator Page.

Map Navigator Page Options

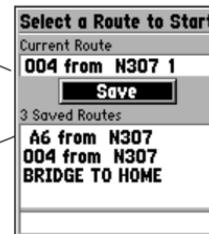


Measure Distance

Use the Panning Arrow to measure the distance between two map items by moving it to the first item, pressing **ENTER**, and then moving it to the second item.

The distance is displayed in the field just above the map.

Current Route



Saved Routes

Routes List

Section 4

GPS Navigation

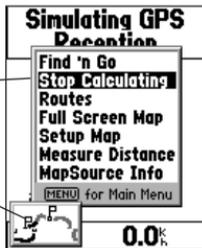
Map Navigator Page Options

Show on Map
Option Check Box



MapSource Info Page

This option is
only available
while the
"Calculating
Route" widow is
displayed.



Calculating a Route

MapSource Info - The 'MapSource Info' option allows you to view the various maps loaded onto the unit. By highlighting a MapSource title and pressing **ENTER** you can activate or deactivate that map data.

When using MapSource maps, there is a hierarchy that determines which map is displayed when geographical features on more than one map overlap each other. Refer to page 110 for detailed information about this subject.

MapSource Info will be grayed if there are no recognizable maps loaded, or an unlock code is required to open the map.

Stop Calculating - This option is available when a route is being calculated. Choose this option if you no longer want to navigate to a destination or if you have chosen a destination that is very difficult for the unit to create a route to. When this occurs, a recalculating message will be repeatedly displayed until an insufficient data message displays.

Section 4

GPS Navigation

Find 'n Go

You can locate Waypoints, Cities, and Interstate Exits which are included in the unit basemap. You can also locate Cities, Exits, Points of Interest, Addresses and Junctions when using MapSource MetroGuide or MapSource Points of Interest mapping data. If this data is not present, these options are not available and will appear gray.

Your current location is normally used as the reference point for the 'Nearest', 'Distance', and 'Direction' features. However, if you are using the panning arrow (Map Pointer), it is used as the reference point. The Find Menu will state either "Using Current Location" or "Using Map Pointer" depending on which reference point is used.

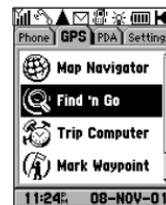
Using 'By Name' and 'Nearest' Lists

All items on Find Menu option lists can be viewed in two formats, 'By Name' (a list of every item available for a category) or by 'Nearest' (a list of only those items for a category that are nearby). The 'Nearest' option presents you with a much smaller list of items and speeds the selection process.

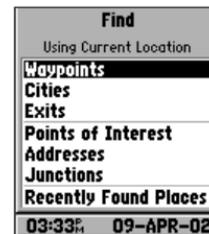
To switch back and forth between Find 'By Name' and by 'Nearest', press the **MENU** key to display the Options Menu for that category page.

All map items found using the Find 'n Go feature can be marked as a waypoint when selecting the 'Save as Waypoint' option accessed by pressing the **MENU** key when the information page for an item is displayed.

Find 'n Go



GPS Tab - Find 'n Go Page



Find Menu

Section 4

GPS Navigation

Find 'n Go

Find by Name
[MENU] for Main Menu

Find By Name is the option when a 'Nearest' list is currently being displayed.



Nearest Cities List

Find Nearest Select Map
[MENU] for Main Menu

Find Nearest & Select Map are options when a 'By Name' list is currently being displayed.



Cities By Name List

Map Item Information Page



Finding a nearest item:

1. Highlight the item you want from the nearest list using the method for selecting data from lists described on page 10.
2. Press the **ENTER** key to display the information page for the item.

Finding an item by name:

1. The first character in the name field at the top of the page will be highlighted.
2. Begin entering the name of the item you want, using the method for entering each letter or number described on page 10.
3. When you can see that the names of the items in the list below are near the name of the item you want, press the **ENTER** key to move the highlight to the list.
4. Highlight the item you want from the list using the method for selecting data from lists as described on page 10.
5. Press the **ENTER** key to display the information page for the item.

Selecting a Map:

You can select the type of map data from which to base your Find List items by choosing from either the built-in basemap or a downloaded MapSource product, such as City Navigator or City Select.

1. With a 'By Name' find list displayed, press the **MENU** key to display the Options Menu
2. Use the **ARROW** key to highlight 'Select Map' and press **ENTER** to display the list of map choices.
3. Use the **ARROW** key to select the map you desire and press **ENTER**. Map items shown on find lists will originate from this map data base.

Section 4

GPS Navigation

Finding a Waypoint

Waypoints that you have created and stored in the unit can be found by selecting the 'Waypoint' option of the Find Menu. You can find a waypoint from a list of waypoints 'By Name' or by 'Nearest' using the procedure explained on the previous page to display the Waypoint Information Page.

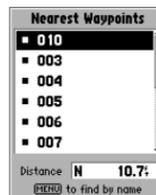
The Waypoint Information Page displays the waypoint name, a map symbol, the location in lat/lon, elevation and four on-screen buttons for viewing the waypoint on the map, creating a Goto, confirming changes, or deleting the waypoint.

Finding a City

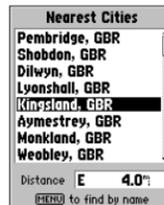
Cities listed in the map database can be found by selecting the 'Cities' option of the Find Menu. You can find a city from a list of cities 'By Name' or by 'Nearest' using the procedure explained on the previous page to display the City Information page. You can use the options menu 'Select Map' option to display the city from the maps contained in your map data storage area.

The City Information Page for the selected city displays the city name, the size by population and the distance from your location. You can view it on the map or create a route to the city from your current location or from a location defined by the panning arrow (Map Pointer).

Find 'n Go



Waypoints By Name List Waypoint Information Page



Nearest Cities List City Information Page



City Displayed on Map

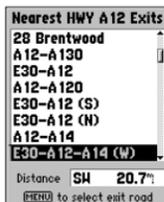
Section 4

GPS Navigation

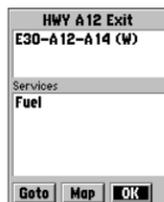
Find 'n Go



Find Exits Options List



Nearest Exits List



Exit Info Page

Finding an Exit

You can use the Find Exit option to locate a nearby exit on an interstate or highway. Exits are listed only by 'Nearest'.

To find an Exit:

1. Select the Find Menu. From the Main Menu and then press the **ENTER** key.
2. Use the **ARROW** keys to highlight 'Exits' and then press the **ENTER** key. An Exits menu will appear with a choice of exit types.
3. Highlight the type of exits you wish to view, then press the **ENTER** key.
4. A list of the nearest exits ahead of you will be displayed. The title of the list indicates the interstate for the exits listed. At the bottom of the list, a distance field indicates the distance from your location to the highlighted exit. The options menu allows you to 'Select Map' if the exit is shown on more than one map on your map data base.
5. Scroll through the list to highlight the desired exit.
6. Press the **ENTER** key to display the Info Page for that exit. This page contains the exit description at the top of the page and a list of services near that exit at the bottom.
7. Use the **ARROW** keys Up/Down keys to move the highlight into the list of services. Press the **CLEAR** key to move the highlight back to the 'OK' button.
8. You can select 'Goto Exit' to create a route to the exit on the map.

Finding a Point of Interest:

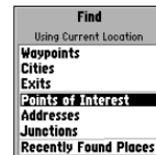
You must be using MapSource City Select to select “Points of Interest” which provides this type of map data, otherwise this option will appear gray and will not be available.

To locate a point of interest:

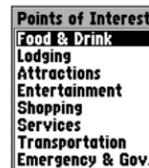
1. Press the **ENTER** key to display the Find Feature Menu. Highlight ‘Points of Interest’ and then, press the **ENTER** key to display a list of categories.
2. Highlight the category of your choice and then press the **ENTER** key to display the list of types.
3. Highlight the type of your choice and then press the **ENTER** key to display the list of the points of interest of that type.
4. A ‘Select Map’ option is available if there is more than one map loaded that has the information you are trying to find. Press the **MENU** key to access the ‘Select Map’ option and then press the **ENTER** key to display the map choices. Highlight the map you wish to use and press the **ENTER** key to return to the list.
5. Follow instructions on page 78 to find a point of interest by name or nearest.
6. Highlight the desired point of interest on the list and press the **ENTER** key to display the item information page. The information page will include the full name, address, and often the phone number. If a phone number is included, you can press the **SEND** key to call the number. Press the **MENU** key to display the Options Menu for this page.

When searching for points of interest using the ‘By Name’ list, multiple items with the same name appear only once on the list (for example: McDonalds). When you highlight it and press **ENTER**, a list of ‘Nearest’ locations for that name will appear.

Find ‘n Go



Points of Interest Option



List of Categories



List of Types



List of Items

Press Goto to navigate to the item



Item Information Page



Item on Map

Section 4

GPS Navigation

Find 'n Go

Enter the Street Address using the KEYPAD keys.

Select the Street, City, and Postal Code from the option lists.

Use the KEYPAD keys to enter the first few letters or numbers and then use the ARROW key to select from the matches on the list.

| Find Address | |
|------------------------|----------------------|
| Number | 1125 |
| Street | Strada 1 Calcatore |
| City (Optional) | Albano Laziale, ROMA |
| Postal Code (Optional) | 00019 |
| Find Clear All | |

Find Address Page

| Select Address | |
|-------------------------------------|-----|
| 16a Traversa 04019 Terracina, LT | |
| Match Quality | 50% |

Select Address Page

Highlight the Find button and press ENTER to display all matching addresses. If the address is not correct, a "None Found" message will appear. Re-Enter new data.

Press Goto to navigate to the address.

| Address | |
|--|-----------|
| 16a Traversa 04019 Terracina, Italia | |
| Distance | NE 8527.4 |
| Goto Map OK | |

Address Information Page

Press Map to view on the Map Page.

Press OK to save as a waypoint.

Finding an Address or a Junction

You must be using MapSource City Select which provides this type of map data, otherwise these options will appear gray and will not be available.

To locate an address:

1. Select 'Find' from the Main Menu and then press the **ENTER** key to display the Find Feature Menu. Highlight the 'Address' option and then, press the **ENTER** key to display the 'Find Address' page.
2. Highlight the Number field and use the method for entering numbers and letters as explained on page 10.
3. Move to the 'Street' field using the **ARROW** keys.
4. Press the **ENTER** key to display the 'Select Street Name' list. Find the street you want by entering the first few letters in the name field to get a match or scroll through the list to highlight your choice.
5. With the desired street highlighted, press the **ENTER** key to place the street name on the find page.
6. Highlight the 'Find' button and press the **ENTER** key to view the location on the Map Page.
7. If the address is incorrect or not in the map data base, a "None Found" message will appear and you must re-enter new data.
8. If the address is accurate, Select Address page will display those addresses that match your entry. As each is highlighted a match quality index will display at the bottom of the page.
9. If there are many matches, use the optional city and postal code fields to place the best matches near the top of the list.
10. Once selected, the address will appear on the Address Information page.

Locating a Junction:

The Find Junction feature operates like the Find Address feature, with the exception that you enter first and second street names instead of an address and a street name.

To Locate a Junction

1. Follow Steps 1 through 10 on page 82, substituting data entry fields on the Find Junction page with those on page 82.

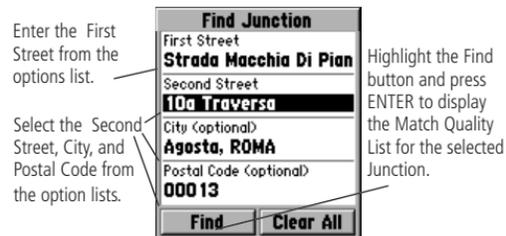
Reviewing Recently Found Places

The Find Menu includes categories for recently found map items. This allows you to review (by category) previously found items that you did not save as waypoints for later use. When the list becomes full, the oldest entry is deleted to make space for the newest.

To Review a Recently Found Place

1. Access the 'Find 'n Go' Find Menu from the Main Menu GPS Tab.
2. Use the **ARROW** key to move down the menu list to the 'Recently Found Places' option and press **ENTER** to display the tabbed pages for Points of Interest, Addresses and Junctions, Cities, and Other.
3. Use the **ARROW** Right or Left key to move to the tab with the desired category, then move down the list of places to highlight your selection and then press **ENTER** to display the Information Page for that item.
4. Highlight the Map or Goto key on the page and press **ENTER** to either view it on the map or create a route to the item. Press the **MENU** key to save it as a waypoint.

Find 'n Go



Find Junction Page



Recently Found Places Option - Points of Interest Tab

Section 4

GPS Navigation

Highlight your choice and press **ENTER** to begin the route calculation and display the Map Navigator Page. While the route is being calculated a small window depicting route waypoints will appear in the lower left corner of the display. If there are no connecting roads to the destination from your current location, a 'Route Calculation Error' message will display.

When the route has been calculated, the Map Navigator will display a wide overlay of the route on roads leading to the destination or a direct line to the destination. Directions to travel are displayed at the top of the page with distance to go and time remaining at the bottom. As you move along the route the directions to travel will update and indicate changes in direction along with graphic turn arrows at Junctions and corners. Turns are also indicated by a voice message, best utilized with the aid of an ear bud or hands-free kit. Turn voice On/Off from the General Setting Tab, See page 55.

To view route options, press the **MENU** key with the View Turns Page displayed. Options are: Stop Navigation, Recalculate, Use Detour, Save Route, and Show Arrival Times/Show Time to Go.

To view the Route Turns list, press the **MENU** key while navigating by selecting 'View Turns' from the Map page options menu. Use the **ARROW** key to scroll up and down the list of turns. Press **ENTER** for a zoomed in view of that turn with distance from your current location.

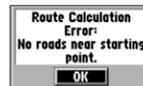
To save a route for future use, press the **MENU** key with the Map Navigator displayed and then select Routes from the Options List. Press **ENTER** to display the Current Route name and all Saved Routes. With the 'Save' button highlighted, press **ENTER** to save the current route to the list. To navigate any saved route, highlight the route and press **ENTER**.

To rename a route, highlight the desired route from the routes list and press the **MENU** key. Select 'Rename' from the Options list and press **ENTER** to display the route name field. Enter the desired name using the **KEYPAD** keys and press **ENTER** when completed.

Auto-Routing



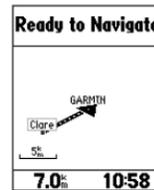
Route Calculation Window



Route Calculation Error Message



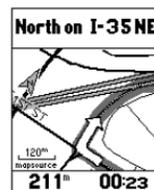
Route Displayed on Map



Direct Route on Map



Route Turns List



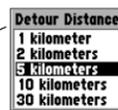
Route Turn on Map



Saved Routes List



Route Options



Detour Distance Options

Section 4

GPS Navigation

Trip Computer

| Trip Computer | |
|---------------|--------------|
| Trip Odom | Stopped Time |
| 0.0 | 00:00:00 |
| Moving Avg | Moving Time |
| 0.0% | 00:00:00 |
| Overall Avg | Total Time |
| 0.0% | 00:00:00 |
| Max Speed | Odometer |
| 1.5% | 4.4 |

Trip Computer Page

Distance units can be set from the Settings Tab of the Main Menu by selecting the 'System' option



Trip Computer Options Menu

Trip Computer

The third feature on the Main Menu GPS Tab, the Trip Computer, provides current information read-outs about speed, distance and time as you travel. To view the Trip Computer, highlight the Trip Computer option on the GPS tab and press **ENTER**. The Trip Computer displays a Trip Odometer, Moving Average, Overall Average, Maximum Speed, Stopped Time, Moving Time, Total Time, and an Odometer that displays accumulated distance.

To Reset the Trip Odometer

1. With the Trip Computer page displayed, press the **MENU** key to display the Options Menu.
2. Use the **ARROW** key to highlight the Reset Trip option.
3. Press the **ENTER** key to clear the Trip Odometer field.

To Reset the Maximum Speed:

1. Follow the steps defined above.

To Reset the Odometer:

1. Follow the steps used to reset the Trip Odometer above.

To select the Units of Measurement:

1. Distance can be set to Statute, Metric, Nautical, or Yards. See Section 5, 'System Options', for details on setting the Units of Measure.

Waypoints

A waypoint is a location you have identified and stored in the unit. The unit can store 500 waypoints in memory. Waypoints can be used as destinations to 'Goto'.

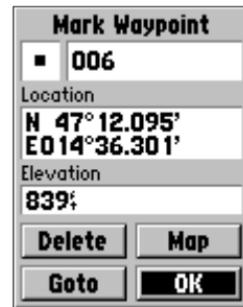
Marking your current location as a Waypoint:

1. Press and hold the **ENTER** key to display the 'Quick Set' menu. Highlight 'Mark Waypoint' and press **ENTER** to mark a waypoint for your current location. It will automatically be assigned a 3-digit number.

If the GPS function is turned Off or the unit is acquiring satellites, the 'Mark Waypoint' option will appear gray and cannot be activated.

2. To change the name of the waypoint, use the **ARROW** keys to highlight the waypoint name field. Follow instructions titled "Entering Each Letter or Number" on page 10. You can enter a total of 10 characters in the field. This waypoint name will appear on the Map Page, when Map Page settings are configured to do so.
3. To assign an identifying map symbol to a waypoint, use the **ARROW** keys to highlight the field to the left of the waypoint name. Follow instructions titled "Selecting Data from Lists" on page 10 to select a symbol. The selected symbol will appear along with the name on the Map Page.
4. To save the waypoint highlight 'OK' and press the **ENTER** key.
5. If you do not want to save it as a new waypoint, press the **CLEAR** key before pressing any other keys.

Waypoints



Mark Waypoint Page

Press and hold the ENTER key display the "Quick Set" menu, then highlight 'Mark Waypoint' and press ENTER again to mark your present location as a Waypoint.

Highlight and use the on-screen buttons to save the waypoint and place it on the waypoints list, display the waypoint on the map, or to delete it.

The Goto button does not function for Mark Waypoint as you are currently at the destination, unless you are using the Map Pointer to mark a Map Item.

Section 4

GPS Navigation

Waypoints

Use the Panning Arrow to highlight a map item and then press the ENTER key to display the item information page.



From the information page, press MENU to display the 'Save As Waypoint' option..



Creating a Waypoint from a Map Item

| Mark Waypoint | |
|----------------|-----|
| ■ | O10 |
| Location | |
| N 47° 12.095' | |
| E 014° 36.301' | |
| Elevation | |
| 839: | |
| Delete | Map |
| Goto | OK |

| Mark Waypoint | |
|----------------|-----|
| ■ | O10 |
| Location | |
| N 48° 10.085' | |
| E 018° 20.801' | |
| Elevation | |
| 539: | |
| Delete | Map |
| Goto | OK |

Enter the Lat/Lon coordinates to create a waypoint for a known location. Elevation can also be entered if known.

Creating a Waypoint by entering new coordinates

To create a waypoint using the panning arrow to highlight a map item:

1. Move the panning arrow to the item (a city, address, or Junction, road, etc.)
2. Press and release the **ENTER** key to display the item information page.
3. With the information page displayed, press the **MENU** key to display the 'Save as Waypoint' option and then press the **ENTER** key.
4. The 'New Waypoint' page will display the waypoint newly created from the map item.

To create a waypoint using the panning arrow when a map item is not highlighted:

1. Press and release the **ENTER** key with the panning arrow positioned where you want to mark the waypoint (off of roads, streets or other items).
2. The 'New Waypoint' page will display the waypoint that was created at the panning arrow location.

Be certain to press and release the **ENTER** key for these operations. Pressing and holding the key will mark your current location. See "Marking Your Current Location" on page 87.

To create a new waypoint by manually entering its coordinates (lat/lon):

1. Press and hold the **ENTER** key to access the Mark Waypoint Option from the 'Quick Set' Menu.
2. Highlight the Location field on the Mark Waypoint Page and follow instructions titled "Entering Data" on page 10.
3. If desired, you may also change the waypoint name and/or symbol.

Section 4

GPS Navigation

To move a waypoint by dragging it on the map:

1. Use the Find Feature to display the Waypoint Page as described on page 79.
2. Highlight and press the 'Map' button to display the waypoint map.
3. With the waypoint highlighted by the panning arrow, press the **ENTER** key once. The word "Move" will appear beneath the panning arrow.
4. Use the panning arrow to move the waypoint to the new location and then press the **ENTER** key.
5. Press the **CLEAR** key to cancel moving the waypoint.

Using the 'Mark Waypoint' feature to quickly determine your latitude and longitude:

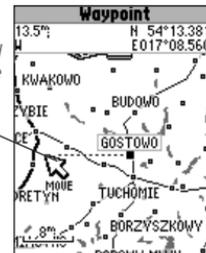
1. Press and Hold the **ENTER** key to display the Quick-Set Menu. Then highlight 'Mark Waypoint' from the list of options.
2. Press and hold the **ENTER** key to display the 'Mark Waypoint' page. Your current lat/lon will be displayed in the 'Location' field.
3. Press the **CLEAR** key before pressing any other key to close the page without storing your location as a waypoint.

Sending your latitude and longitude position data to another NavTalk GSM Phone:

Refer to the section on sending Status Reports on pages 41 and 42. When you send a Report, you're latitude and longitude are included automatically.

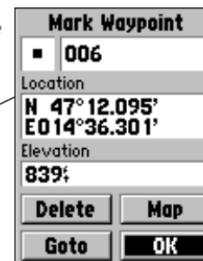
Waypoints

Highlight the waypoint you want to move and then drag it to the new location.



Moving a Waypoint

Press and hold the ENTER key to display the Lat/Lon coordinates for your current location.



Using Mark Waypoint to determine your location

Section 4

GPS Navigation

Waypoints

Waypoint

■ 008

Location
N 47° 12.095'
E 014° 36.301'

Elevation
00839'

Delete Map

Goto OK

Highlight the field you want to edit and enter new data.

Editing a Waypoint

Waypoint

■ 008

Location
N 47° 12.095'
E 014° 36.301'

Elevation
039'

Delete Map

Goto OK

Highlight the 'Delete' button and press ENTER.

Waypoint

■ 008

Do you really want to delete waypoint 008?

No Yes

Delete Map

Goto OK

Highlight the 'Yes' or 'No' button and press ENTER.

Deleting a Waypoint

Editing a Waypoint

A waypoint can be edited to change the map symbol, name, coordinates, or elevation. It can also be deleted.

To edit a waypoint:

1. Use the Find 'n Go feature to display the Waypoint Page as described on page 79.
2. Make changes as desired to the waypoint symbol, name, location, and elevation fields following the instructions in the section titled "How To Enter Data" on page 10.
3. Highlight the 'OK' button and press the **ENTER** key to save changes.

To delete a waypoint:

1. Use the Find 'n Go feature to display the Waypoint Page as described on page 79.
2. Highlight the 'Delete' button and press the **ENTER** key.

Using the 'Average Location' Option

You can average location calculations to create a more accurate waypoint by reducing the effects of GPS location errors. It is important to remember that when you average a waypoint from the Waypoint List or create a new waypoint without actually being at the site of the waypoint, the location for that waypoint will be changed to your current GPS location.

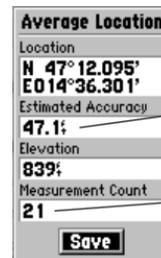
To Average a Location:

1. With the waypoint page displayed, press the **MENU** key to display the Waypoint Option Menu.
2. With 'Average Location' highlighted, press the **ENTER** key to display the 'Average Location' Page.
3. Observe the 'Estimated Accuracy' field and press the **ENTER** key with 'Save' highlighted when the estimated accuracy reaches the desired value.
4. Press the **CLEAR** key to cancel 'Average Location' and leave the waypoint unchanged.

Waypoints



Average Location Option



Average Location Page

Section 4

GPS Navigation

Satellite Information Page



The Satellite Info Page



Satellite Info Page Options Menu

The Satellite Information Page

The Satellite Information Page provides a visual reference of various receiver functions. As the receiver locks onto satellites, a signal strength bar will appear for each satellite in view, with the appropriate satellite number (01-32) underneath.

When you first turn the unit on the page title will be “Acquiring Satellites”. After it has determined your location the title will be “2D GPS Location” or “3D GPS Location”.

Options

North Up/Track Up - You can set the Satellite Information Page skyview orientation to either ‘North Up’ with the skyview oriented north or ‘Track Up’ with the skyview oriented toward your current direction of travel. These settings affect only the satellite skyview.

Elevation and Location - You can set a new elevation and new location to help the unit obtain a position fix. ‘New Location’ will not be available if your location has already been determined by the GPS receiver.

Turn GPS Off - You can turn off the GPS receiver if you are not currently navigating to save on battery power. When the GPS receiver is turned off, the page title will state “GPS Off”

GPS Settings

These features are best used by individuals with a working knowledge of map grids and datums. To learn more about these subjects, visit the National Imagery and Mapping Agency at <http://www.nima.mil> or inquire at your library.

General Settings Tab

GPS Mode - Allows you select Normal GPS operation for navigation and position reporting, Battery Saver which slows the satellite updating process to save power, Simulate GPS to save power and yet use GPS features to plan routes, etc. and GPS Off for maximum power savings.

Location Format - Allows you to choose from different grid formats. The default location format 'hddd°mm.mmm' displays the latitude and longitude in degrees and minutes and is the one most commonly used. Selecting a location format will cause the map datum to match that format.

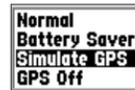
Map Datum - Offers a selection of nearly all map datums in common use. Every map is based on a map datum (a reference model of the earth's shape) and is usually listed in the title block of the map. If you are comparing GPS coordinates to a paper map, chart, or other reference, the map datum in this field must match the horizontal map datum used to generate the map or other reference. The default datum is WGS 84 (World Geodetic Survey 1984) and should only be changed when using maps or charts specifying a different datum. If a map does not specify a datum, use the list to find datums applicable to the region of the map, select the one that provides the best positioning at a known point. You may also choose the 'User' datum for custom designed grids.

Enable/Disable and Clear Track Log - As you move about the unit creates an automatic track log of your movements which can be viewed for later reference when saved to MapSource. The 'CLEAR' button, allows you to record a new track logs when the current log is full.

GPS Settings



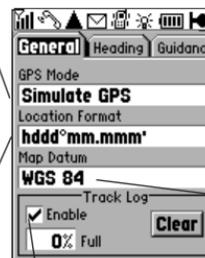
GPS Mode
Options Menu



NOTE: Whenever GPS is first turned On, a "Warning" message will display.

Press ENTER to acknowledge.

Settings Tab - GPS



General Page
Options Menu



Map Datum
Options List



Location Format
Options List

General Tab

Highlight the 'Enable Track log' box and press ENTER to record a track of your movements. Highlight the on-screen 'CLEAR' button and press ENTER to clear the track log from your unit. Recorded tracks can be saved to MapSource..



Track on
Map Page

Section 4

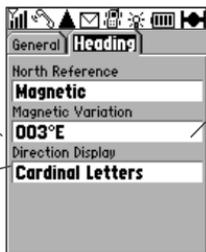
GPS Navigation

GPS Settings

North Reference
Options Menu



Direction Display
Options Menu



Heading Tab

Magnetic
Variation
Entry Field

Enter data when
User is selected for
North Reference.

Heading Settings Tab

North Reference - Allows control of what the unit considers 'North'. True - Uses True North. Magnetic - Uses Magnetic North, which is continually updated based on your current location. Grid - Uses North as defined by the selected grid. User - Uses the Magnetic North Offset determined by the value entered in the Magnetic Variation Field.



WARNING: If 'User' North Reference is selected, you must periodically update the magnetic variation as your position changes. When using this setting, the unit will not automatically calculate and update the magnetic variation at your current location. Failure to update this setting may result in substantial differences between the information displayed on the unit and external references, such as a magnetic compass.

Magnetic Variation - Provides the magnetic variation for "Magnetic" north reference when selected and allows you to enter corrections for the magnetic variation when using a 'User' based' North Reference program. "True" and "Grid" north reference selections do not display a magnetic variation.

Direction Display - Changes the 'Direction To Go' field and Map Panning box on the Map Page and Find pages from Cardinal Letters (N, S, E, W) to Numeric Degrees (147°).

Section 4

GPS Navigation

Guidance Settings Tab

Off-Route Recalculation - Allows the unit to recalculate and adjust the route to your destination whenever you leave the originally calculated route. You can choose from three options: Prompted, which tells you when you have left the route and asks you if you want to recalculate, Automatic recalculation, and Off, which does not notify or recalculate the route.

Next Turn Pop-Up - Allows you to control the pop-up message that alerts you prior to a turn your route with options of Off and Automatic Only.

Avoid - Allows you to avoid calculation of a route that involves U-Turns, Toll Roads, or Highways. Highlight the box next to each option to activate the avoid options in your route.

Routing Settings Tab

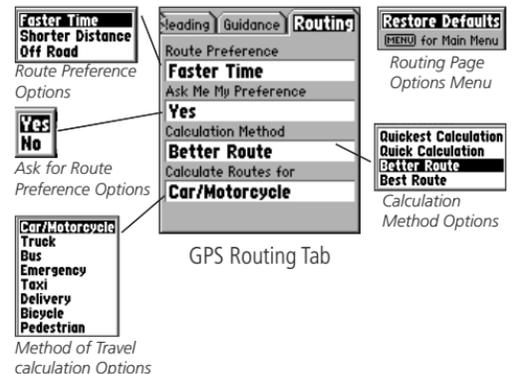
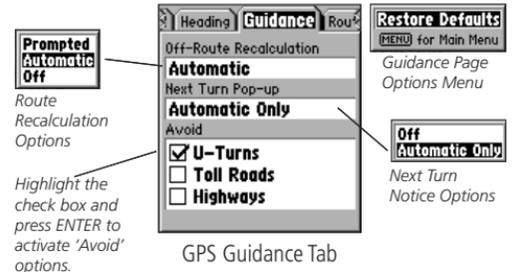
Route Preference - Allows you to choose one of three methods for routing you to a destination. The three options are: Faster Time, which primarily selects freeways, highways and thoroughfares, Shorter Distance, which uses all types of roadways to create the shortest route, and Off Road, which projects a straight line to your destination.

Ask Me My Preference - Allows you to turn On or Off the Route Preference Prompt when creating a new route. When No is selected, the preference in the Route Preference field will always be used to calculate your route.

Calculation Method - Offers four choices for route calculation, the Quickest being the most inefficient (shortest time to create) and the Best the most efficient (longest time to create).

Calculate Route For - Creates a route most suitable for the selected mode of transportation.

GPS Settings



Section 5

System Options

System Settings

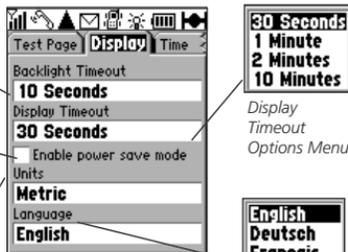


Settings Tab - System

Backlight
Timeout
Options Menu



Power Save Mode
On/Off



Units of Measure
Options Menu



Display Tab



Display Tab Options Menu



Display
Timeout
Options Menu



Language
Options
Menu

System Settings

Systems Settings allow you to customize the unit by selecting the settings you desire for the Display, Time, and Interface features.

Display Settings

Backlight Timeout - The delay can be set to stay on or to turn off automatically 15 seconds, 30 seconds, 1 or 2 minutes after the last time you have pressed a keypad key. When using the external power (cigarette lighter) adapter, the backlight does not timeout.

Display Timeout - The Display Timeout allows you to conserve battery power by limiting the amount of data displayed on the screen to the Status Bar. The timeout can be set to Stay On, timeout after 30 seconds, 10 minutes, 1 hour, or Stay Off. The display can be reactivated by pressing any key

Power Save Mode - Turn On for maximum power saving on Standby.

Units - Units of measure can be set to Statute, Metric, or Nautical (miles and miles per hour, kilometers and kilometers per hour, or nautical miles and knots).

Language - You can choose from five languages to display page and menu text: English, German, French, Italian, Swedish, Danish, and Dutch.

Page Options - Press the **MENU** key to display the options for this page: Restore Defaults, System Info (Software Version & Unit i.d.), and Show IMEI (International Mobile Equipment Identity). Record the IMEI code in order to provide it to your service provider if your unit is lost or stolen to discontinue service, thus preventing use of the phone by others.

Time Settings

Time Format - Allows you to choose from a 12 or 24 hour time format. When you select the 12 hour time format, the clock will read like a standard clock with 12 hour AM and PM cycles. The 24 hour option sets the clock to display a 24 hour cycle (Military Time).

Time Zone - Can be set to one of the U.S. Time Zones, or by selecting 'Other' you can enter the UTC Time Offset for any other time zone. Refer to the instructions for setting UTC Time Offset and the Time Offset Chart on page 108.

Daylight Savings Time - Can be turned On or Off or set to Automatic.

Current Date and Current Time - Can set by highlighting the 'Set' button and pressing **ENTER** to display the 'Set Time' page.

To Set the Time and Date

1. Highlight the 'Set Time' button and press **ENTER** to display the Set Time Page.
2. With the Date field highlighted, press **ENTER** to display the Calendar Page. Use the **ARROW** to highlight the year and then move it LEFT or RIGHT to set the year. Do the same for the month and then move down the correct day of the month and then press **ENTER**.
3. Set the Time by highlighting the Time field, then use the **KEYPAD** keys to enter the time from a reliable source. When the cursor moves to the AM/PM position, use the Up/Down **ARROW** key to select AM or PM.
4. Move the highlight to the Time Zone field and press **ENTER** to display the Time Zone Options Menu. Use the **ARROW** key to move up or down the list to highlight the desired time zone and press **ENTER**.
5. Move to the 'Done' key and press **ENTER** to finish.

Time Settings

Time Format
Options



Daylight Savings
Time Options



There are 8
Time Zone
Options. Select
'Other' to set
a zone from
the UTC Time
Offset Chart
on page 108.



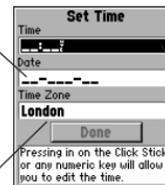
Set Time Button

Time Tab

Date Set Calendar



Time Zone Options



Pressing in on the Click Stick
or any numeric key will allow
you to edit the time.

Set Time Page



Time Set Field

Section 5

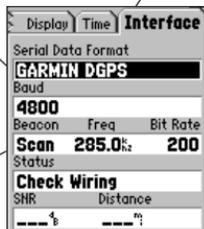
System Options

Interface Settings



Serial Data Format Options Menu

The Baud rate options are selectable only for Text Out, RTCM In, and RTCM In/Text Out, Format options.



Frequency is selectable for only certain Formats

Bit Rate is selectable for only certain Formats.

Status, SMR, and Distance data is independent of menus and is displayed for only certain Serial Data Format options.



Beacon Options

Interface Tab

Select the desired Serial data Format from the list. If 'GARMIN DGPS' or 'RTCM In/NMEA Out' format is selected, additional fields are provided to control a GARMIN differential beacon receiver (e.g. GBR 21) directly from your unit. Tuning is automatic with 'Scan' or you can enter the beacon frequency and bit rate when you select 'User' from the Beacon list to manually tune the receiver. For more information, refer to instructions supplied with the beacon receiver.

When selecting, 'Text Out', 'RTCM In', and 'RTCM In/Text Out' formats, a Baud Rate field with a list of options will display.

'Interface' Settings

The 'Interface' Settings Page allows you to choose from 12 different input/output serial data formats, or none at all. This feature is used when connecting your unit to external NMEA devices, DGPS beacon receiver, a personal computer, etc. It is necessary to have a working knowledge of these applications. Below is a description of each format:

GARMIN - the proprietary format used to exchange waypoint, track, and map data with a PC.

GARMIN DGPS - Allows DGPS input using a GARMIN beacon receiver and a standard RTCM SC-104 format and DGPS tuning.

NMEA - supports the input and output of standard NMEA 0183 version 2.3 data.

Text Out - allows simple ASCII text output of location and velocity information, without any input capabilities.

RTCM In - allows DGPS input using a standard RTCM SC-104 format without any output capabilities.

RTCM In/NMEA Out - allows DGPS input using a standard RTCM SC-104 format and supports the output of standard NMEA 0183 version 2.3 data.

RTCM In/Text Out - allows DGPS input using a standard RTCM SC-104 format and simple ASCII text output of location and velocity information.

Modem - allows connection for data transmission using a PC. Refer to Appendix H on page 111.

None - Provides no interfacing capabilities.

Accessories *(Included with the Unit)*

Lanyard - Provides convenient method for carrying the unit.

Belt Clip - Attaches to the back of the unit and clips to belt or waistband.

Travel Charger - Provides battery recharging and operation from AC power.* *(Not shown)*

Owner's Manual - Start up instructions and detailed operation reference.

Quick Reference Guide - Abbreviated overview of unit operation.

Note: Refer to the list of accessories on the unit packaging for additional accessories that may be included with your particular model of the NavTalk GSM Phone/GPS.

Optional Accessories *(Not included with the Unit)*

Carrying Case - Protects the unit from scratches and abrasion. *(Not shown)*

Non-Skid Vehicle Dash Mount - Used with Hands-Free Kit. *(Not shown)*

Cigarette Lighter Adapter - Provides power from an automobile cigarette lighter.

Hands-Free Kit - Provides operation in a vehicle with auxiliary mic and speaker for hands-free operation.

GA 26C Remote GPS Antenna - Allows enhanced satellite acquisition.

External Antenna Cable Adapter Kit - Allows connection to remote phone and GPS antennas from the Hands-Free Kit. *(Not shown)*

Hands-Free Headset - Provides privacy and hands-free operation.** *(Not shown)*

MapSource CD-ROMs - Allows transfer of detailed map data. *(Not shown) Standard accessory on some units.*

Intellisync for GARMIN CD-ROM - Allows synchronization of contact data with a PC. *(Not shown) Standard accessory on some units.*

Replacement Battery - Replaces lost or damaged battery. *(Not shown)*

PC Interface Cable - Provides connection to a PC for data transfer. *Standard accessory on some units.*

Spare Vehicle Dash Mount Base - Allows transfer of the unit to a second vehicle.

Accessories



Hands-Free Kit

* Charger configurations are available for the following plug types: USA/Taiwan, Euro., UK/Ireland, Australia, and China.

****CAUTION:** GARMIN Accessories have been designed and tested specifically for use with GARMIN products. Accessories offered for sale by other manufacturers have not necessarily been tested or approved by GARMIN for use with GARMIN Products. Use of such accessories might cause damage to your GARMIN Product and void the terms of the warranty. Using GARMIN Accessories with other manufacturer's products is not recommended.

See your GARMIN Dealer or website for availability.

Section 6

Appendix A

Accessories



GA 26 C Remote GPS Antenna



Cigarette Lighter Adapter



Belt Clip



PC Interface Cable

Accessory Ports and Accessory Attachment Locations



(These two ports require the External Antenna Cable Kit and Hands-Free Kit for installation. Remove the protective cover before placing the NavTalk in the Hands-Free Kit Cradle.)

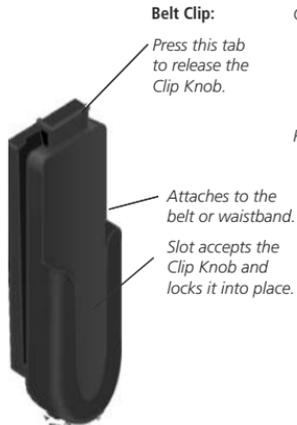
The Belt Clip Accessory

Kit Contents:



Clip Knob:

Attaches to the back of the NavTalk Unit.



Belt Clip:

Press this tab to release the Clip Knob.

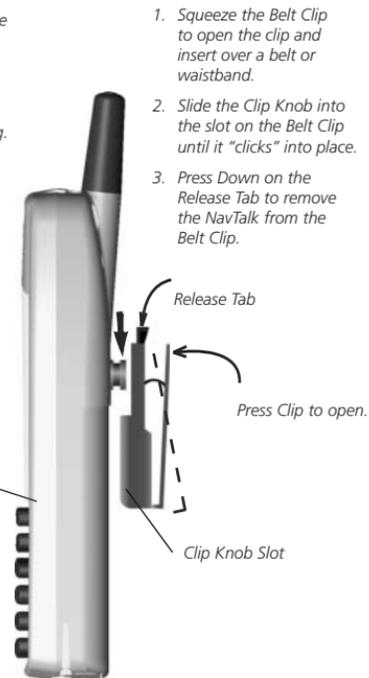
Attaches to the belt or waistband.
Slot accepts the Clip Knob and locks it into place.

Installing the Clip Knob:



1. Remove the plug from the back of the NavTalk unit.
2. Insert the threaded post into the hole in the back of the unit and turn the knob clockwise until snug.

Using the Belt Clip:



1. Squeeze the Belt Clip to open the clip and insert over a belt or waistband.
2. Slide the Clip Knob into the slot on the Belt Clip until it "clicks" into place.
3. Press Down on the Release Tab to remove the NavTalk from the Belt Clip.

Press Clip to open.

Clip Knob Slot

Section 6

Appendix B

Specifications

Specifications are subject to change without notice.

1. Subject to accuracy degradation to 100m 2DRMS under the U.S. DoD-imposed Selective Availability Program.
2. With optional GARMIN GBR 21 Beacon Receiver input.
3. External power can only be applied using the GARMIN Vehicular Power Adapter or Travel Charger. Modification to these or other applications will void the product warranty.
4. Both Talk Time and Standby Time are dependent upon the operating characteristics of each Network System and will vary from system to system.

The maximum talk time is given for the GSM band at minimum transmit power: Level 19 - 5 dbm. Talk time will be reduced at higher power levels. At Power Level 8, for example, talk time is estimated at 4 hours.

The maximum standby time is given for the GSM band with the NavTalk "Power Save" mode enabled (a partial display mode), service indicator Off, and DRX 9. With "Power Save" mode disabled, service indicator On, and DRX 5, standby time is estimated at 150 hours.

Extensive use of backlighting and/or the GPS Receiver will also significantly increase power consumption.

PHYSICAL

| | |
|------------------|---|
| Case: | High-impact plastic alloy, waterproof to IPX2 standards |
| Size: | 133 x 51 x 24mm |
| Weight: | 170g |
| Operating Range: | 5° to 158°F (-15° to 70°C) |

PERFORMANCE:

| | |
|-----------------------|---|
| Phone Type: | GSM operating at 900/1800 MHz |
| Receiver: | Differential ready PhaseTrac12 [®] |
| Acquisition Time: | Approximately 15 seconds (warm start) Approximately 45 seconds (EzInit [®] /cold start) Approximately 2 minutes (AutoLocate [®]) |
| Update Rate: | 1/second, continuous |
| GPS Accuracy: | 15 meters (49 feet) RMS ¹ |
| DGPS (USCG) Accuracy: | 1-5 meters (3-15 ft) with DGPS corrections ² |
| Velocity Accuracy: | 0.1 knots RMS steady state |
| Dynamics: | Performs to specifications to 6 g's |
| Interfaces: | RS232 w/NMEA 0183, RTCM 104 DGPS data format, proprietary GARMIN data formats and Modem Mode |
| Data Storage: | Indefinite, SIM card. |
| Internal Memory: | 16 MB for map storage, 2.5 MB for general purpose |
| Antenna: | Built-In (Patch) |

POWER:

| | |
|---------------|--|
| Input: | Lithium-ion rechargeable battery, AC or 12 VDC Adapter ³ |
| Battery Life: | Est. Talk Time - 8 hours Est. Standby Time - 300 hours ⁴ |

The unit uses “pop-up” messages to alert you to unit operating characteristics. Press the **ENTER** or any other keypad key to acknowledge and return to the page you were viewing.

Address Buffer Full - Try Entering a City or Zip Code

Appointment Memory Full - Delete old data to allow space for new data.

Approaching Turn - You are less than one minute away from a turn in route.

Arriving at Destination - You have reached your destination.

Auto-Redial Timer Not Ready - Wait for the timer to reset.

Basemap Failed - The base map has failed. Return unit to GARMIN for service.

Batteries Low - The batteries in your unit are low. Recharge battery.

Batteries Too Low TX Disabled - The battery in your unit is low and no longer capable of supporting unit phone operation. Recharge battery.

Blackjack - You have reached 21 points.

Blacklist Full - The list of blacklisted numbers is full. Turn the unit Off then On to reset the list.

Bookmark Memory Full - Delete old data to allow space for new data.

Call Barred - An incoming call has been barred.

Messages

Call Barring ON - Acknowledgement that at least one Call Barring feature is now active.

Call Cost Not Available - Contact your service provider to set up this feature.

Call Diverted - The incoming call has been diverted.

Call Diverted, ON - Acknowledgement that a Call Divert feature is currently active.

Call Failed - The outgoing call did not connect.

Call Service Activation OK - Confirmation that a Call Service is now active.

Call Service Active - When checking the status of a Call Service, this message reports “Active”.

Call Service Action Aborted - A Call Service action has been aborted from the “Working” page.

Call Service Action Failed - The initiated action has failed because you have not subscribed to that service or there are network communication problems. If the service is active, try again later.

Call Service Action OK - (USSD), Unstructured Supplementary Service Data action has been accepted. See your service provider for details.

Section 6

Appendix C

Messages

Call Service Activation OK - Confirmation that a call service is activated.

Call Service Cancellation OK - Confirmation that a Call Service has been canceled.

Call Service Not Active - When checking the Status Page this message reports “Not Active”.

Call Service Not Available - Network Error message to indicate that service ins not available.

Cannot Display All Found, Use City or Postal Code - There are more matches for the address than the unit can display. Insert city and postal code to reduce the number of matches.

Can't Unlock Maps - You must use an unlock code to open the maps.

Checking SIM for New Numbers - The unit is looking for new numbers to add to the Phonebook.

Connected - Your Browser session has been connected.

Code Accepted - You have successfully entered the correct PIN or PUK Code.

Code Changed - Your new code number has been accepted.

Code Error - Code is not recognized by the cellular system.

Code Must Be At Least Four Digits -

Code Not Matched - Code entry error, retry entry.

Cost Limit Exceeded - Cancel call or reset Cost Limit.

Database Error - There was an error in the unit's database.

Detail Maps Don't Support Routing - Install MetroGuide, City Select, or City Navigator MapSource mapping data.

Dialling - The Browser session is dialling a phone number.

Entry Already Exists - Modify the name for the entry.

Emergency Only - The keypad is locked and you can only dial an emergency number.

External Power Loss - Battery Life Will Be Reduced With GPS On - The unit has switched to operation from battery power with the GPS receiver On

External Power Lost - Power from an external source has been disconnected. The unit is operating on battery power.

Find Produced No Results - There is no such item in the database.

GPS Off - The unit's GPS receiver is turned off

GPS Turned Off (for use indoors) - The unit's GPS receiver has been turned off to conserve battery power and speed Map Page display drawing.

Home Page Changed - Confirmation message indicates the Browser Home Page has successfully changed.

Illegal Split - You cannot split and play off of these two cards . (Blackjack Game).

Section 6

Appendix C

Messages

Info Message Overwritten - A cell broadcast message has been overwritten.

Key Guard is Off - Appears when Keyguard is turned Off by pressing and holding the CLEAR key.

Key Guard Is On - Hold CLEAR To Turn Off - Instructions on how to turn Off Key Guard when it is active.

Lost Satellite Reception - The unit has lost satellite signals. Try moving to another location with a clearer view of the sky.

Memory Full - The unit's memory is full. To reduce the amount of memory used, delete unused routes, waypoints or tracks.

Message Send Failed, Save to Drafts - Your message was not sent and will be saved for later use in the Drafts List.

Message Sent Successfully - The intended recipient has received your SMS message.

Message Send Failed - Your SMS message was not received by the intended recipient.

No Differential GPS Position - The beacon receiver is not communicating with the unit. Refer to the 'Interface' setup page of the unit to view the 'Status' field.

No Info Messages - Displays when accessing Info Messages page when there are no messages received.

No Phone Number - No phone number is entered in Contacts entry for this name.

None Found - There is no such address, Junction, point of interest, or city in the map information database. Check spelling or number entry and try again.

Note Memory Full - Delete selected old Notebook notes to allow space for new notes.

Number Blacklisted - You have been redialling a number that has not responded for multiple redials and is now being sent to the Blacklist of numbers that do not respond to dialing.

Off Route - You have traveled off the prescribed route. Move back or allow the unit to recalculate the route.

Off Route (Recalculating) - The unit is recalculating a new route from your current location.

Phonebook Database Full - Delete old data to allow space for new data.

PIN 1 Will Be used For This Type Key - The Browser needs a PIN code for security purposes.

PIN 2 Blocked - You have exceeded three attempts to enter the PIN 2 code. See your service provider for a PUK 2 number to unblock.

PIN 2 Will Be Used For This Type Key - The Browser requires a PIN 2 code for security purposes.

Pin Request Must Be On - This action requires a PIN 1 number for operation. Turn the PIN request feature On.

RAM Failed - The unit has detected a failure in its internal memory. If the message persists, service is required.

Section 6

Appendix C

Messages

Recurrence Memory Full - Appointment recurrence memory is full. Shorten the number of months for posting of recurring appointments.

Registration Failed - When using Manual Network Search, network registration has failed. Try another network entry.

ROM Failed - The permanent memory has failed and the unit is not operable. Service is required.

Route Already Exists - The name you selected has already been assigned. Choose another name.

Route Memory Full - No additional route waypoints can be added.

Route Truncated - A complete uploaded route will not fit into memory. Modify the route to reduce size.

Session Not Connected - The Browser session is not currently connected to the Wireless Application Protocol (WAP). Retry.

Set Voice mail - Enter a Voice mail Phone Number.

SIM Access Denied - Re-enter the PIN 1 code.

SIM Blocked - You have exceeded the three attempts to enter your PIN Code. See your service provider for a PUK 1 number.

SIM Not Ready - The SIM Card has not been completely read by the phone or the SIM card is not installed or is faulty.

SIM Memory Full - There no space for new numbers.

SMS Inbox Full - Delete Messages - Remove old messages from the inbox to allow space for new messages.

SMS Invalid Number - You have entered the wrong number, re-enter.

SMS Service Center # Invalid - Re-enter the correct number.

SIM Memory Full - Delete old data to allow space for new data.

Speed Dial Number Not Assigned - There is no number in this speed dial list slot.

To Do List Memory Full - Delete old data to a low space for new data.

Too Many Exceptions For Recurrence - There are too many date or day mismatches to repeatedly list the event with reliability.

Transfer Complete - The unit has finished uploading or downloading information to the connected device.

URL Invalid - The URL cannot be authenticated.

URL Timed Out - Time allowed for display has expired.

URL Too Long - The URL character string is too long to be accepted. Delete the http:// prefix and try again.

Verifying - Checking your code for validity.

Waypoint Already Exists - The name you selected has already been assigned. Choose another name.

Waypoint Memory Full - All of the waypoints have been assigned.

You Bust - You have exceeded 21 points in the game of Blackjack.

Cleaning

The unit is constructed of high quality materials and does not require user maintenance other than cleaning. Clean the unit using a cloth dampened (excess liquid must be expressed completely) with a mild soap and water solution and then wipe dry. Avoid harsh detergents, chemical cleaners, and solvents that may damage plastic components. Do not apply cleaner to electrical contacts on the back of the unit. If using the Carrying Case with clear plastic window, remove case periodically and clean away any residual dust particles, that, when trapped between the window and the display screen, can eventually abraid and scratch the surface.

Battery Care and Storage

Do not store spare battery packs in a location where the metal contacts may become shorted by metal objects contained in a brief case, glove compartment, etc. Do not store where exposure to temperature extremes may occur (i.e. automobile trunk). Do not dispose of batteries in a fire as they may explode. Batteries should be disposed of using environmentally safe methods such as recycling.

Water Immersion

The unit is not waterproof or water resistant. If internal components get wet, permanent damage will result. The unit may withstand splashing, rain, spatters, etc. if quickly wiped dry. However, the battery and SIM card slot may retain residual water and should be inspected and allowed to air dry with the battery removed before re-use.

Unit Care

Section 6

Appendix E

UTC Offset Chart

This chart is provided to help you determine the time offset settings for your current location if it is not in one of the time zones listed on the Time Setup Page. To change the UTC Offset, if necessary, press the **MENU** key twice to access the Main Menu. Then scroll across to the Settings Tab, scroll down to the 'Systems' option and press the **ENTER** key to access the System tabs and then tab over to the 'Time' tab. Highlight the Time Zone field and highlight Time Zone field and press the **ENTER** to display the list of time zones. If the desired zone is not displayed, select 'Other' and press the **ENTER** key to enter the appropriate offset value from the chart below. To determine your longitudinal zone, press and hold the **ENTER** key and observe the longitude value in the Mark Waypoint Location field. It should fall within the sets of values on the chart. Press the **CLEAR** key to avoid marking a waypoint.

| Longitudinal Zone | Offset |
|--------------------|--------|
| E007.5° to E022.5° | +01.00 |
| E022.5° to E037.5° | +02.00 |
| E052.5° to E067.5° | +03.00 |
| E067.5° to E082.5° | +04.00 |
| E082.5° to E097.5° | +05.00 |
| E097.5° to E112.5° | +06.00 |
| E112.5° to E122.5° | +07.00 |
| E122.5° to E127.5° | +08.00 |
| E127.5° to E142.5° | +09.00 |
| E142.5° to E157.5° | +10.00 |
| E157.5° to E172.5° | +11.00 |
| E172.5° to E180.5° | +12.00 |

| Longitudinal Zone | Offset |
|--------------------|--------|
| W180.0° to W172.5° | -12.00 |
| W172.5° to W157.5° | -11.00 |
| W157.5° to W142.5° | -10.00 |
| W142.5° to W127.5° | -09.00 |
| W127.5° to W112.5° | -08.00 |
| W112.5° to W097.5° | -07.00 |
| W097.5° to W082.5° | -06.00 |
| W082.5° to W067.5° | -05.00 |
| W067.5° to W052.5° | -04.00 |
| W052.5° to W037.5° | -03.00 |
| W037.5° to W022.5° | -02.00 |
| W022.5° to W007.5° | -01.00 |
| W007.5° to E007.5° | -00.00 |

Section 6

Appendix F

The Intellisync for GARMIN PC Interface Software CD-ROM (which may be provided with your unit, depending on the model) allows you to synchronize PDA data from Contacts, Calendar Appointments List, the 'To Do' list and Notes by interfacing with Outlook, Lotus Notes, Palm Desktop, or ACT! PC contact management programming.

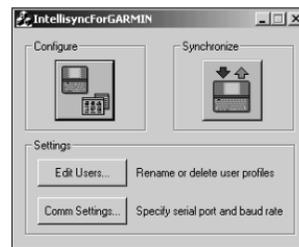
A PC Interface Cable is provided as a standard accessory for connecting the NavTalk to a PC Serial Port. The Intellisync CD-ROM provides self installation and instruction for synchronizing data between the PC and NavTalk. To successfully synchronize data your PC must meet the minimum requirements stated in the column to the right.

Intellisync for GARMIN allows you to speed the data entry process for constructing a NavTalk Phone Book list of names and numbers, Calendar Appointment entries, entering items into the 'To Do' list and posting notes in Notes. By using the PC keyboard to enter data into one of the contact management programs listed above you can eliminate the need to use the NavTalk Keypad to enter data characters one by one. You can also transfer existing contact data from those programs to the NavTalk.

Detailed instructions for using Intellisync are provided in the manual shipped with the CD-ROM and in the program 'Help' files. Note that there are help files to provide specific information for each of the four types of contact management programs.

Once you have setup the Intellisync program, you must activate the synchronization from the NavTalk by pressing and holding the **ENTER** key until the Quick Set Menu is displayed, use the **ARROW** keys to select "Begin Sync" and then press **ENTER** again. When synchronization begins, a spinning globe will appear on the display until the synchronization is complete.

Intellisync™ for GARMIN PC Interface



Intellisync for GARMIN

Press and Hold the  **ENTER** key

to display the Quick Set Menu, then use the **ARROW** key to select 'Begin Sync' and press **ENTER** to begin synchronization



Intellisync for GARMIN PC system requirements are: IBM-compatible 486 PC or better with 133 MHz or higher Pentium® processor, Windows 95®, Windows 98®, Windows 95 or 98 XP, Windows NT® 4.0, or Windows 2000 Professional edition with 64 MB RAM. 16 MB minimum RAM, 30 MB free hard disk space, CD-ROM drive, 256-color display adapter and VGA monitor or better with 640x480 resolution.

Section 6

Appendix G

MapSource™ Data Information



MapSource Info Page details those maps downloaded to the NavTalk
Check the box adjacent to the map description to Activate

MapSource PC system requirements are: Pentium® processor, Windows 95®, Windows 98®, or Windows NT®, Windows 2000®, 16 MB minimum RAM, 300 MB free hard disk space (for compact installation), CD-ROM drive, 256-color display adapter and monitor, mouse or other pointing device, PC Interface cable.

Check the GARMIN website (www.garmin.com) or ask your GARMIN dealer for MapSource product descriptions.

MapSource CD-ROM data (which may be provided with your unit, depending on the model) can be transferred to the NavTalk Unit to dramatically increase the mapping capability of the unit in both the amount of map detail and available maps. MetroGuide® maps contain detailed information and are required for using the Find Menu, Points of Interest, Addresses and Junctions options. MapSource maps can also provide U.S. Geological Survey topographical data, local streets and roads, nautical navigation aids, political boundaries and all major traffic routes for specified geographical areas.

The unit can display a maximum of 525 MapSource maps depending on the size of each map to fit within the 16 MB map data capacity of the NavTalk.

You cannot view multiple types of MapSource data in the same location at the same time (one will draw over the other). When you leave a MetroGuide area for example and enter the area of a topographic map, the display will change to contour lines. The same is true when moving from a topo map to a MetroGuide map.

The City Navigator maps are at the top of the hierarchy and will replace any other map information. Here is the list of the hierarchy for your reference beginning with those titles that take precedence:

1. City Navigator
2. City Select
3. MetroGuide
4. Fishing Hot Spots
5. U.S. Waterways & Lights
6. U. S. Topo
7. Roads and Recreation
8. WorldMap

You can place a check in the boxes on the MapSource Info Page to select which maps will display. Removing the check prevents it from drawing over a map you want to view. Refer to page 58 for details.

Your NavTalk unit is shipped with an installed Euro basemap and a MapSource "City Select- Europe" CD-ROM with a full unlock code certificate. Follow instructions provided with the CD-ROM and Unlock Certificate. Installation of mapping data requires the use of the PC Interface Cable set.

Modem Setup Instructions

If you select the 'Modem' interface option to use the NavTalk as a modem to communicate with devices or software, you must perform the following setup procedure. This example shown is performed using Windows® NT or 2000. Most Windows applications will perform in a similar manner with slight graphic variations for the application windows displayed.

To setup the modem:

1. Access the Interface Tab of the Main Menu Settings page. Set the serial data field to 'Modem' .
2. Connect the PC Serial Data Cable Accessory to an available COM port on your PC and to the NavTalk.
3. Install a new modem by selecting 'Start', then 'Settings', and 'Control Panel'. Then click on the 'Phone and Modem Options' icon to display the dialog pages.
4. Select the 'Modems' tab. Add a 14400 bps Modem from the list displayed when you click on the 'Add' button. Configure this new modem to use the COM port connected to the NavTalk .
5. Select the properties dialog and be certain to set the modem for a maximum port speed of 19200 and Not to wait for a dial tone (uncheck the box).
6. For the software that will use the NavTalk as a modem...select the 'Standard 14400 bps Modem' that you added in Step 4. Then set the dial-up number.

Note that, it may be helpful to turn Off the modem error control if the software allows.

7. To set the AT commands for software not already supported by the NavTalk, access the 'Advanced' tab of the Modem Properties dialog and enter the desired commands. Additional information about AT commands can be found by accessing the GARMIN web site at www.garmin.com.

Interface Modem Setup



Phone and
Modem
Options

Phone & Modem Options Icon



Phone & Modem Options Dialog



Modem Properties Dialog

Section 6

Appendix I

To resolve problems that cannot be remedied using this guide:

Contact GARMIN Product Support at

44/0870.8501241 (Europe) or 913/397.8200 or 800/800.1020 (U.S.A.)

Troubleshooting Guide

| Symptom | Probable Cause | Remedy |
|---|---|---|
| Unit does not turn on. | Battery is not charged. | Charge battery. |
| | The unit has been damaged by impact or internal contact with a liquid (ie.- water). | The unit may require service or repair. Contact your GARMIN Dealer. |
| Unit turns On, but then turns Off. | The battery is nearly depleted. | Recharge the battery. |
| A "SIM Not Ready" message is displayed. | SIM card is not inserted or is improperly installed. | Insert the SIM card or make certain it is properly installed. |
| | The unit has not had time to make connection with your service provider. | Wait for the NavTalk to communicate with your service provider. Observe the signal strength icon on the status bar. |
| The unit does not ring. | Ringer control settings are set to Off. | Go to the 'Settings' Tab and change Phone Ringer settings. |
| A "Call Failed" message is displayed. | You are outside the range of your cell or the signal is blocked. | Move to a new location and try again. |
| | Your SIM card is not installed | Install your SIM card. |
| Certain features such as SMS "Short Message Service" do not function. | The feature is service provider dependent which must be activated and subscribed to.. | Cellular service is down or you have not subscribed to the service. |

Glossary of Terminology

Wireless Phone Terminology

CLIP - Caller Line Identification Presentation. A service provider supported caller identification feature.

CLIR - Caller Line Identification Restriction

Diverting - Sending a call to another phone number or voice mailbox.

Fixed Dialling - Only phone numbers listed can be dialled.

IMEI Code - An International Mobile Equipment Identity code that is unique to your unit

Network Code - Code designation for a particular service provider

Network Operator - The name of the service provider

PDA - Personal Digital Assistant

PIN1 Code - The first of two Personal Identification Numbers

PIN2 Code - The second of two Personal Identification Numbers

PUK1 Code - The first of two SIM PIN unblock codes

PUK2 Code - The second of two SIM PIN unblock codes

Report - A message sent to another phone or location reporting your current position coordinates.

Recurrences - A list of the number of reports sent over a given period of time.

SMS - Short Message Service. A service provider support messaging feature.

SIM Card - Subscriber Identity Module, assigned for your use and the source for subscription charges for mobile services.

Glossary of Terminology

GPS Terminology

Altitude - The height above mean sea level.

AutoZoom - The map display feature that automatically sets the maximum scale for displaying map features in conjunction with the map detail setting to prevent displaying too many features causing “map clutter”.

Bearing - The compass direction from your present location to a set destination.

Course - The direction to navigate over a straight line to your destination.

Distance to Destination - The measured distance remaining while traveling to a set destination.

Distance to Next - The measure distance to the next turn in a route.

Max. Speed - The maximum speed attained over a given period of time.

Odometer - The cumulative record of distance traveled.

Route - The direction of travel laid out by the unit over existing roads and highways to a destination.

Time To - The time remaining before your reach your destination. Based on your current speed.

Waypoint - The term used to identify a marked and recorded map item or latitude and longitude.

Section 6

Appendix K

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Part Number 190-00218-00 Rev. C