NavTalk®
GSM Phone/GPS

owner’s manual and reference guide
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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Introduction

Section 1

Limited Warranty

This GARMIN product is warranted to be free from defects in materials or workmanship for one year from the date of purchase. Within this period, GARMIN will at its sole option, repair or replace any components that fail in normal use. Such repairs or replacement will be made at no charge to the customer for parts or labor, provided that the customer shall be responsible for any transportation cost. This warranty does not cover failures due to abuse, misuse, accident or unauthorized alteration or repairs.

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

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

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

To obtain warranty service, contact your local GARMIN authorized dealer. Or call GARMIN 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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Introduction

Section 1

Warnings and Precautions

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.

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.
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.
Section 1
Introduction

Table of Contents
SECTION 1: Introduction ................................................... i-viii
Customer Service - Product Registration ......................... i
Limited Warranty .......................................................... ii
Warnings and Precautions .............................................. iii-v
Table of Contents ......................................................... vi-vii
Network Service Provider Information ............................... viii

SECTION 2: Getting Started .............................................. 1-24
Battery Installation and Charging ...................................... 1
SIM Card Installation .................................................... 2
Using the Keypad .......................................................... 3
Turning the Unit On/Off ................................................... 4
Adjusting the Screen Contrast ........................................... 4
Activating the Backlight Feature ....................................... 5
Adjusting the Volume .................................................... 5
Understanding the Status Bar .......................................... 6
The Time and Date Display ............................................. 6
Using the ‘Quick Set’ Feature ............................................ 7
Using the Keypad Feature ............................................... 7
Turning the GPS On/Off .................................................. 7
Marking your current location as a Waypoint ................. 7
Using the Profiles Feature ............................................. 8

SECTION 3: Phone Operation ............................................ 25-60
Making a Call ............................................................... 25-27
Handling a Call ............................................................. 28-29
Answering a Call ......................................................... 28
Placing a Call on Hold ................................................... 28
Muting a Call ............................................................... 28
Ending a Call ............................................................... 28
Conference Calls .......................................................... 29
Sending a Call to your Voice Mail ................................. 29
Using Contacts to your Voice Mail ................................. 30-34
Call History ................................................................. 35-36
Dialed Calls ................................................................. 35
Missed Calls ................................................................. 35
Received Calls ............................................................. 36
Air Time ....................................................................... 36
Call Cost ..................................................................... 36
Messages ................................................................. 37-42
New Messages ............................................................ 37
Voice Mail Messages .................................................... 38
SECTION 3: Phone Operation (cont.)
Message Inbox ................................................................. 38
Read Messages ............................................................ 38
Using Numbers and Websites in Messages ......................... 39
Message Drafts .............................................................. 40
Sent Messages .............................................................. 40
Templates ................................................................. 41
Reports .......................................................................... 41-42
Recurrences ................................................................. 42
MiniBrowser ............................................................... 43-45
Personal Digital Assistant (PDA) Tab ................................. 46-52
Calendar ........................................................................ 46
Tasks ........................................................................... 47
Notes ............................................................................ 48
Playing Games ................................................................ 49-51
Calculators ..................................................................... 52
Settings Tab .................................................................... 53-64
Phone .......................................................................... 53-60
Call Services ............................................................... 61-64
SECTION 4: GPS Navigation ................................................. 65-95
GPS Tab - Features Pages ................................................ 65
Map Navigator .................................................................. 66
Data Fields ...................................................................... 67
Map Display .................................................................... 68
Panning Arrow .................................................................. 69-70
Zooming In and Out ..................................................... 71
Map Navigator Options ................................................ 72-76
Find ‘n Go .................................................................... 77-83
Creating a Route To a Destination .................................. 84
Auto Routing ............................................................... 85

Section 1
Introduction

Table of Contents

Trip Computer ................................................................. 86
Waypoints ................................................................. 87-91
Satellite Page ............................................................... 92
GPS Settings ................................................................. 93-95
SECTION 5: System Settings Options .................................. 96-98
Display Settings .......................................................... 96
Time Settings .............................................................. 97
Interface Settings ......................................................... 98
SECTION 6: Appendices .................................................... 99-118
Appendix A: Accessories ................................................. 99-101
Appendix B: Specifications .............................................. 102
Appendix C: Messages ................................................... 103-106
Appendix D: Unit Care ..................................................... 107
Appendix E: UTC Offset Chart .......................................... 108
Appendix F: Intellisync for GARMIN PC Interface ............... 109
Appendix G: MapSource Data Information ......................... 110
Appendix H: Interface Modem Setup ................................. 111
Appendix I: Troubleshooting Guide ................................... 112
Appendix J: Glossary of Terminology ............................... 113-114
Appendix K: Index By Subject ......................................... 115-117
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)
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.
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

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 dialing, international prefixes, etc.
Section 2
Getting Started

Turning the Unit On/Off

Unit Power Key

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.
Section 2
Getting Started

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, 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.

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

The time can also be displayed in either 12 or 24 hour format.
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 to 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.
Section 2
Getting Started

Using Profiles

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.

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 Feature

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.
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.
Section 2
Getting Started

Entering Data

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

<table>
<thead>
<tr>
<th>Key</th>
<th>Number of key presses required to display the desired character</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1  2  3  4  5  6  7  8  9 10 11 12 13 14 15</td>
</tr>
<tr>
<td>1</td>
<td>. @ / ? ! 1 , &quot; ' : ; &amp; # î ç</td>
</tr>
<tr>
<td>2</td>
<td>a b c 2 à â à ã</td>
</tr>
<tr>
<td>3</td>
<td>d e f 3 é è ã Æ</td>
</tr>
<tr>
<td>4</td>
<td>g h i 4 i Γ</td>
</tr>
<tr>
<td>5</td>
<td>j k l 5 Æ</td>
</tr>
<tr>
<td>6</td>
<td>m n o 6 ň ř œ ø</td>
</tr>
<tr>
<td>7</td>
<td>p q r 7 Β Π Ξ Σ</td>
</tr>
<tr>
<td>8</td>
<td>t u v 8 ŋ ũ</td>
</tr>
<tr>
<td>9</td>
<td>w x y z 9 Ω Ξ Ψ</td>
</tr>
<tr>
<td>0</td>
<td>Space Next Line  0 % £ $ ¥ € £</td>
</tr>
<tr>
<td>1</td>
<td>* + - &lt;= &gt; ( )</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Key</th>
<th>upper case characters</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A B C 2 Â A Ä Ô C</td>
</tr>
<tr>
<td></td>
<td>D E F 3 É Æ Ô F</td>
</tr>
<tr>
<td></td>
<td>G H I 4 Γ G I 4 Γ</td>
</tr>
<tr>
<td></td>
<td>J K L 5 Æ J K L 5 Æ</td>
</tr>
<tr>
<td></td>
<td>M N O 6 ň ř œ ø M N O 6 ň ř œ ø</td>
</tr>
<tr>
<td></td>
<td>P Q R 7 Β Π Ξ Σ P Q R 7 Β Π Ξ Σ</td>
</tr>
<tr>
<td></td>
<td>T U V 8 ŋ ũ T U V 8 ŋ ũ</td>
</tr>
<tr>
<td></td>
<td>W X Y Z 9 Ω Ξ Ψ W X Y Z 9 Ω Ξ Ψ</td>
</tr>
</tbody>
</table>

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 $ symbol appears in the status bar.
Section 2
Getting Started

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., 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.
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 redialed.
  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.
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”
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.

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*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 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.*
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.
**Section 2**

Getting Started

**Settings Tab - Phone Pages**

- **Profiles Page** allows you to volumes and tones for a variety of call and message profiles.
- **Security page** controls PIN number entry, fixed dialling, and codes.
  - Page Options: None.
- **Network page** allows you select a network, choose a preferred network, and select a service operator.
  - Page Options: Restore Defaults.
- **Calls page** allows you to setup the ways calls are handled.
  - Page Options: Restore Defaults.
- **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.
- **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.
- **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.
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 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.
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.
Section 2
Getting Started

The Main Menu

Settings Tab - Map Pages

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*. 
Section 3
Phone Operation

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.

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

Dialling from the Call History Pages

The Call History Pages allow you to 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.
Section 3
Phone Operation

Handling A Call

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.

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.
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.
Section 3
Phone Operation

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

Find the number in Contacts

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 a number to the list or edit from Contacts

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.

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.

Saving a Name and Number To the SIM List.
Editing a Name and Number from the SIM List.
Section 3
Phone Operation

Using Contacts

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.
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.

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.
Section 3
Phone Operation

Using Contacts

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 Dialled 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.

Dialled Calls

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

To view Dialled Calls
1. Highlight Call History and then press ENTER to display the ‘Dialled 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.
Section 3
Phone Operation

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 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.
Section 3
Phone Operation

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.
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 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.
Section 3
Phone Operation

Messages

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.
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.
Section 3
Phone Operation

MiniBrowser

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.

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 or 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 and 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.
Section 3
Phone Operation

Using the Calendar

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

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.
Section 3
Phone Operation

Playing Games

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.
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 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 pit) - Light Grey
- Dragon Warning Platform (2 around dragon) - Dark Grey
- Pit and Dragon Warning Platform - Grey Stripes
- Pit
- Dragon
- Arrow Platform

Phone Operation

Section 3
Playing Games
Section 3
Phone Operation

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.
Section 3

Phone Operation

Phone Settings

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.
Section 3
Phone Operation

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.

NOTE: When an Auto-redial number has been redialed 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

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 succession 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.

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).
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:
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.

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

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.
Section 3
Phone Operation

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.
Section 3
Phone Operation

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".
**Section 3**

**Phone Operation**

**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 diverts** - to cancel all voice, fax, and data call diverts.
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.

**Settings Tab - Call Services**

- **Enter Divert Number Field** (i.e. Voice Mail or other number)
- **Set Delay Options List**

**Call Divert Tab with List of Options**

**Call Divert Activation Page**

**Call Divert Options Menu**

- **5 Seconds**
- **10 Seconds**
- **15 Seconds**
- **20 Seconds**
- **25 Seconds**
- **30 Seconds**
Section 3
Phone Operation

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

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 3

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
Using the Map Navigator Page

Section 4
GPS Navigation

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 Handsfree 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.
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.
**Section 4**

**GPS Navigation**

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**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 within 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.

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**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.

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**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.
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 (300 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.
Section 4
GPS Navigation

Map Navigator Page Options

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.
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 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 rivers, 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.
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.
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.
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.
Section 4
GPS Navigation

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.
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).
Section 4
GPS Navigation

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 database.
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.
Section 4
GPS Navigation

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 database, 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.
Section 4
GPS Navigation

Creating A Route To A Destination

Traveling to a Map item or Find Menu item

You can create a route to guide you to a map item or Find Menu item using the Goto feature on the Information Page for that item. A Goto can be a straight-line from your current location to one you've selected or you can choose from two options (Auto-Routes) that lay out a graphic path to the item on the Map Navigator page using existing roads and highways. The Map Navigator will also provide you with directions to go, roads to use and when to make turns. It also provides you with time and distance information. These routes can be saved and stored in the unit memory for later use as well.

To Goto a map item location:
1. Use the ARROW keys to move the panning arrow to the item (waypoint, city, exit, etc.) on the map.
2. Press the ENTER key to display an information page which contains a 'Goto' button.
3. Highlight the 'Goto' button on the page, and then press the ENTER key.

If GPS is Off, you will prompted to turn it On. A route cannot be created with GPS Off. Once a Goto destination is selected, a 'Route Preference?' window will pop-up and offer you three choices: Faster Time, Shorter Distance or Off Road (Direct Line) routing to the destination.

To Goto a Find Menu Item:
1. Use the Find Menu to display the various lists of map items. Select a category and highlight an item on the list.
2. Press the ENTER key to display the item's information page which contains the 'Goto' button.
3. Highlight the 'Goto' button on that page, and then press the ENTER key.

If GPS is Off, you will prompted to turn it On. A route cannot be created with GPS Off. Once a Goto destination is selected, a 'Route Preference?' window will pop-up and offer you three choices: Faster Time, Shorter Distance or Off Road (Direct Line) routing to the destination.
Section 4
GPS Navigation

Auto-Routing

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.
Section 4
GPS Navigation

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.
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.

Creating a Waypoint from a Map Item

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

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

Waypoints

Moving a Waypoint

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

Press and hold the ENTER 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.

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.
Section 4
GPS Navigation

Waypoints

Editing a Waypoint

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.

Deleting a Waypoint

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.
Section 4
GPS Navigation

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.

Section 4
GPS Navigation
Section 4
GPS Navigation

GPS Settings

North Reference Options Menu

Section 4
GPS Navigation

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°).
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.
Section 5
System Options

System Settings

System 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.
Section 5
System Settings Options

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.
Section 5
System Options

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.

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.
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.

* 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

- Belt Clip
- Attachment Socket
- (Remove cover to install)
- Auxiliary Power/Data Cable Plug Port
- Accessory Ports and Accessory Attachment Locations
- Remote GPS Antenna Port
- Remote Wireless Antenna Port
  (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.)
- Hands-Free Headset Connector
- Carry Lanyard Slot
- Belt Clip Attachment Socket
  (Remove cover to install)
- Battery Release Tab
  (Press Down to remove depleted battery and replace with a spare, or to access SIM Card slot.)
- Auxiliary Power or Data Cable
- GA 26 C Remote GPS Antenna
- Cigarette Lighter Adapter
- PC Interface Cable
- Hands-Free Headset Port
  (Lift cover to install)
The Belt Clip Accessory

Kit Contents:

1. **Clip Knob:** Attaches to the back of the NavTalk Unit.

2. **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.

Appendix A

Section 6
### 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.

<table>
<thead>
<tr>
<th>PHYSICAL</th>
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</thead>
<tbody>
<tr>
<td><strong>Case:</strong></td>
<td>High-impact plastic alloy, waterproof to IPX2 standards</td>
</tr>
<tr>
<td><strong>Size:</strong></td>
<td>133 x 51 x 24mm</td>
</tr>
<tr>
<td><strong>Weight:</strong></td>
<td>170g</td>
</tr>
<tr>
<td><strong>Operating Range:</strong></td>
<td>5° to 158°F (-15° to 70°C)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PERFORMANCE</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Phone Type:</strong></td>
<td>GSM operating at 900/1800 MHz</td>
</tr>
<tr>
<td><strong>Receiver:</strong></td>
<td>Differential ready PhaseTrac12®</td>
</tr>
</tbody>
</table>
| **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 |

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 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.

**Section 6**

**Appendix C**

**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 is 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).
Appendix C

Section 6

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.

**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 abrade 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.
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.

<table>
<thead>
<tr>
<th>Longitudinal Zone</th>
<th>Offset</th>
</tr>
</thead>
<tbody>
<tr>
<td>E007.5° to E022.5°</td>
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<tr>
<td>E022.5° to E037.5°</td>
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</tr>
<tr>
<td>E052.5° to E067.5°</td>
<td>+03.00</td>
</tr>
<tr>
<td>E067.5° to E082.5°</td>
<td>+04.00</td>
</tr>
<tr>
<td>E082.5° to E097.5°</td>
<td>+05.00</td>
</tr>
<tr>
<td>E097.5° to E112.5°</td>
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<tr>
<td>E112.5° to E122.5°</td>
<td>+07.00</td>
</tr>
<tr>
<td>E122.5° to E127.5°</td>
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</tr>
<tr>
<td>E127.5° to E142.5°</td>
<td>+09.00</td>
</tr>
<tr>
<td>E142.5° to E157.5°</td>
<td>+10.00</td>
</tr>
<tr>
<td>E157.5° to E172.5°</td>
<td>+11.00</td>
</tr>
<tr>
<td>E172.5° to E180.5°</td>
<td>+12.00</td>
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<table>
<thead>
<tr>
<th>Longitudinal Zone</th>
<th>Offset</th>
</tr>
</thead>
<tbody>
<tr>
<td>W180.0° to W172.5°</td>
<td>-12.00</td>
</tr>
<tr>
<td>W172.5° to W157.5°</td>
<td>-11.00</td>
</tr>
<tr>
<td>W157.5° to W142.5°</td>
<td>-10.00</td>
</tr>
<tr>
<td>W142.5° to W127.5°</td>
<td>-09.00</td>
</tr>
<tr>
<td>W127.5° to W112.5°</td>
<td>-08.00</td>
</tr>
<tr>
<td>W112.5° to W097.5°</td>
<td>-07.00</td>
</tr>
<tr>
<td>W097.5° to W082.5°</td>
<td>-06.00</td>
</tr>
<tr>
<td>W082.5° to W067.5°</td>
<td>-05.00</td>
</tr>
<tr>
<td>W067.5° to W052.5°</td>
<td>-04.00</td>
</tr>
<tr>
<td>W052.5° to W037.5°</td>
<td>-03.00</td>
</tr>
<tr>
<td>W037.5° to W022.5°</td>
<td>-02.00</td>
</tr>
<tr>
<td>W022.5° to W007.5°</td>
<td>-01.00</td>
</tr>
<tr>
<td>W007.5° to E007.5°</td>
<td>-00.00</td>
</tr>
</tbody>
</table>
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.
MapSource™ Data Information

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:


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.

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.
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.
## Section 6
### Appendix I

### Troubleshooting Guide

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

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.)
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.
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.
Appendix K

Section 6

Index By Subject

A
Accessories ................................................................. 99-100
Active Route ............................................................... 84-85
Accumulated Charge Module (ACM) ......................... 13, 36
Air Time ..................................................................... 13, 36
Alerts with Messages .................................................. 53
Alerts Tab ................................................................... 20, 53
Answering a Call ......................................................... 28
ARROW Key .................................................................. 3
Auto-Routing ............................................................... 85

B
Backlighting ................................................................. 3-5, 96
Battery Installation/Charging ........................................ 1
Battery Capacity Display ............................................... 6
Beeper ......................................................................... 53-54

C
Calendar ........................................................................ 45-46
Call Barring ................................................................. 62
Call Cost ....................................................................... 36
Call Divert ................................................................. 61
Call Timers ................................................................. 36
Call Services .............................................................. 61-64
Call Waiting ............................................................... 63
Calling Line Identification Presentation (CLIP) (CLIR) .. 13, 113
Cautions and Warnings ................................................. iii-v
Changing Volume ......................................................... 5
Cities .......................................................................... 79
Conference Calls ......................................................... 29
Contrast Adjustment ..................................................... 4

D
Data Fields ..................................................................... 10
Date and Time ............................................................ 6, 97
Dialling Errors (Call Failed) ......................................... 103
Dialling Page ............................................................. 25
Distance (Measuring) ................................................... 75

E
Emergency Calls ......................................................... 27, 59
Ending a Call ............................................................... 28
ENTER Key ................................................................. 3
Entering Data .............................................................. 10

F
Features ....................................................................... 1-24
Find 'n Go ................................................................. 77-83
Fixed Dialling ............................................................. 20, 33, 56

G
Games ........................................................................... 19, 49-51
Goto ............................................................................. 84
Grid ............................................................................. 94

115
## Section 6

Appendix K

### Index By Subject

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Icons</td>
<td>6</td>
</tr>
<tr>
<td>IMEI</td>
<td>96</td>
</tr>
<tr>
<td>Inbox</td>
<td>38</td>
</tr>
<tr>
<td>Initializing</td>
<td>65</td>
</tr>
<tr>
<td>Interface Format</td>
<td>98</td>
</tr>
<tr>
<td>Junction Information</td>
<td>83</td>
</tr>
<tr>
<td>Key Usage</td>
<td>3</td>
</tr>
<tr>
<td>KEYPAD keys</td>
<td>3</td>
</tr>
<tr>
<td>Language</td>
<td>59, 96</td>
</tr>
<tr>
<td>Last Dailed (Dialled Calls)</td>
<td>35</td>
</tr>
<tr>
<td>Limited Warranty</td>
<td>ii</td>
</tr>
<tr>
<td>Location Marking (As a Waypoint)</td>
<td>7, 87</td>
</tr>
<tr>
<td>Lock (Keyguard)</td>
<td>7</td>
</tr>
<tr>
<td>Main Menu</td>
<td>12-24</td>
</tr>
<tr>
<td>Maintenance</td>
<td>107</td>
</tr>
<tr>
<td>Map Navigator Page</td>
<td>64-76</td>
</tr>
<tr>
<td>Map Settings</td>
<td>73-74</td>
</tr>
<tr>
<td>MapSource</td>
<td>78, 110</td>
</tr>
<tr>
<td>Mark Present Position (As a Waypoint)</td>
<td>7, 87</td>
</tr>
<tr>
<td>Marking Waypoints</td>
<td>7, 87</td>
</tr>
<tr>
<td>MENU Key</td>
<td>3</td>
</tr>
<tr>
<td>Messages</td>
<td>37-41, 58-59</td>
</tr>
<tr>
<td>Missed Calls</td>
<td>35</td>
</tr>
<tr>
<td>Mini-Browser</td>
<td>43-44</td>
</tr>
<tr>
<td>Modem Set-Up</td>
<td>111</td>
</tr>
<tr>
<td>Navigation</td>
<td>63-93</td>
</tr>
<tr>
<td>Nearest (Waypoints, Cities, etc.)</td>
<td>77-78</td>
</tr>
<tr>
<td>NMEA</td>
<td>98</td>
</tr>
<tr>
<td>Normal Mode (GPS)</td>
<td>93</td>
</tr>
<tr>
<td>Normal Mode (Profiles)</td>
<td>53</td>
</tr>
<tr>
<td>North Up</td>
<td>73, 92</td>
</tr>
<tr>
<td>North Reference</td>
<td>92</td>
</tr>
<tr>
<td>Notes</td>
<td>19, 48</td>
</tr>
<tr>
<td>Odometer</td>
<td>86</td>
</tr>
<tr>
<td>Offset (Time)</td>
<td>97, 108</td>
</tr>
<tr>
<td>Options Menus</td>
<td>9</td>
</tr>
<tr>
<td>Orient Map</td>
<td>73</td>
</tr>
<tr>
<td>Panning (Map)</td>
<td>69-70</td>
</tr>
<tr>
<td>Personal Digital Assistant (PDA)</td>
<td>19, 45-52</td>
</tr>
<tr>
<td>Personal Identification Number (PIN)</td>
<td>2, 4, 33, 56</td>
</tr>
<tr>
<td>Personal Unblocking Code (PUK)</td>
<td>4, 33, 56</td>
</tr>
<tr>
<td>Placing a Call</td>
<td>25</td>
</tr>
</tbody>
</table>
## Index By Subject

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>R</strong> Receiver Status (GPS)</td>
<td>92</td>
</tr>
<tr>
<td>Recurrences</td>
<td>42</td>
</tr>
<tr>
<td>Redialling (Auto)</td>
<td>55</td>
</tr>
<tr>
<td>Renaming a Saved Route</td>
<td>85</td>
</tr>
<tr>
<td>Reports</td>
<td>41-42</td>
</tr>
<tr>
<td>Reset Max Speed</td>
<td>86</td>
</tr>
<tr>
<td>Restricted Calls (Fixed Dialling)</td>
<td>27, 56</td>
</tr>
<tr>
<td>Routes</td>
<td>84-85</td>
</tr>
<tr>
<td>- Creating</td>
<td>84</td>
</tr>
<tr>
<td>- Naming</td>
<td>85</td>
</tr>
<tr>
<td>Scale (Map)</td>
<td>71</td>
</tr>
<tr>
<td>Set Time</td>
<td>97</td>
</tr>
<tr>
<td>Settings Menu</td>
<td>20-24, 53-64, 93-98</td>
</tr>
<tr>
<td>Short Message Service (SMS)</td>
<td>37-42, 58</td>
</tr>
<tr>
<td>Simulator</td>
<td>93</td>
</tr>
<tr>
<td>Software Version (System Info)</td>
<td>96</td>
</tr>
<tr>
<td>Specifications</td>
<td>102</td>
</tr>
<tr>
<td>Speed Dialling (One-Touch)</td>
<td>27, 31, 59</td>
</tr>
<tr>
<td>Speed Display (Moving Avg., Overall Avg., Max)</td>
<td>86</td>
</tr>
<tr>
<td>Synchronization (Intellisync for GARMIN)</td>
<td>109</td>
</tr>
<tr>
<td><strong>T</strong> Table of Contents</td>
<td>vi-vii</td>
</tr>
<tr>
<td>Time Format</td>
<td>97, 108</td>
</tr>
<tr>
<td>Time Offset Chart</td>
<td>108</td>
</tr>
<tr>
<td>Tasks</td>
<td>19, 47</td>
</tr>
</tbody>
</table>

### Section 6

**Appendix K**

### Index By Subject

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>U</strong> Unit Features</td>
<td>3</td>
</tr>
<tr>
<td>Units of Measure</td>
<td>96</td>
</tr>
<tr>
<td><strong>V</strong> Voice Mail</td>
<td>29, 61</td>
</tr>
<tr>
<td>Volume</td>
<td>5, 54</td>
</tr>
<tr>
<td><strong>W</strong> Warranty</td>
<td>ii</td>
</tr>
<tr>
<td>Waypoints List</td>
<td>79</td>
</tr>
<tr>
<td>Waypoints</td>
<td>7, 87-91</td>
</tr>
<tr>
<td>- Averaging Location</td>
<td>91</td>
</tr>
<tr>
<td>- Deleting</td>
<td>90</td>
</tr>
<tr>
<td>- Editing</td>
<td>90</td>
</tr>
<tr>
<td>- Marking</td>
<td>87</td>
</tr>
<tr>
<td>- Moving</td>
<td>89</td>
</tr>
<tr>
<td>- Naming</td>
<td>87</td>
</tr>
<tr>
<td>- Nearest</td>
<td>89</td>
</tr>
<tr>
<td>- Symbols</td>
<td>87</td>
</tr>
<tr>
<td><strong>Z</strong> Zooming In and Out</td>
<td>71</td>
</tr>
</tbody>
</table>