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Safety

When using Navini Ripwave electronic equipment, always follow basic safety precautions to reduce the risk of electrical shock, fire, and injury to people and/or property. Follow all warnings and instructions that come with the equipment.

1. Do not use the equipment while you are in a bathtub, shower, pool, or spa. Exposure of the equipment to water could cause severe electrical shock or serious damage to the equipment.
2. Do not immerse the equipment in any type of liquid. Use a damp cloth and if needed, water and a mild detergent to clean the plastic shell. Unplug the equipment from the power source before cleaning.
3. Follow all airport and FAA regulations when using the equipment on or near aircraft.
4. Only operate the equipment from the type of power source(s) indicated in this manual (110/220 VAC, 60/50 Hz adapter or Navini supplied battery). Any other type of input power source may cause damage to the equipment.
5. Power the equipment using only the battery or the AC adapter cable provided, and in accordance with the instructions specified in the user manual.
6. Do not use a frayed or damaged power cord. Do not place the power cord where it can be stepped on or tripped over.
7. Do not touch wires where the insulation is frayed or worn unless the equipment has been disconnected from its power source.
8. Do not overload wall outlets, power strips, or extension cords. This can cause serious electrical shock or fire.
9. Do not place the equipment on an unstable surface. It can fall and cause injury or damage to the equipment.
10. Do not disassemble the equipment. Removing covers exposes dangerous voltages or other risks and also voids the warranty. Incorrect reassembly can cause equipment damage or electrical shock. Only an authorized repair technician should service this product.
11. Do not expose the equipment to extreme hot or cold temperatures.
12. Do not use the equipment under the following conditions:
 - When the equipment has been exposed to water or moisture.
 - When the equipment has been damaged.
 - When the power cord is damaged or frayed.
 - When the equipment does not operate properly or shows a distinct change in performance.

Regulatory Information

FCC Notice



CAUTION: This device is a Radio Frequency transmitter. It is required to comply with FCC RF exposure requirements for transmitting devices. For all LED Modems and all LCD Modems except for the 2.6 LCD with window mount, a minimum separation distance of 8 inches (20 cm) or more must be maintained between the antenna and all persons during device operations to ensure compliance with the FCC's rules for Radio Frequency Exposure. For the 2.6 LCD Modem with a window mount, a minimum of 8.3 inches (21 cm) or more must be maintained between the window mount antenna and all persons during device operations. If this minimum distance cannot be maintained, exposure to RF levels that exceed the FCC's limits may result.

FCC Compliance and Advisory Statement

***Tested To Comply
With FCC Standards
FOR HOME OR OFFICE USE***

This equipment has been tested and found to comply with the limits for a class B digital device, Pursuant to Part 15 of the FCC rules. The operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

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

- 1) Reorient or relocate the receiving antenna,
- 2) Increase the separation between the equipment and the receiver,
- 3) Connect the equipment to an outlet on a circuit that is different from the one to which the receiver is connected,
- 4) Consult the dealer or an experienced radio/TV technician for additional suggestions.

INFORMATION TO USER

This device has been authorized as a radio frequency transmitter under the appropriate rules of the Federal Communications Commission. Any changes or modifications not expressly approved by Navini Networks could void the user's authority to operate the equipment.

Battery Precautions



CAUTION! To reduce risk of injury or fire, follow these instructions when handling the battery.

1. Risk of explosion is possible if the battery is replaced with one not supplied by Navini Networks.
2. Do not dispose of the battery in a fire. They may explode. Check with the local codes for battery disposal guidelines.
3. Do not open or mutilate the battery. The battery contains substances that are toxic, corrosive, or harmful to humans. If battery substances come in contact with the skin, seek medical help immediately.
4. Do not attempt to recharge the battery by any means except per the instructions in this manual.
5. If using an optional internal battery, remove the battery from the equipment if the equipment is not going to be used for a long period of time. The battery could leak and cause damage to the equipment.
6. Exercise care when handling the battery to prevent shorting the battery with conducting materials such as bracelets, rings, and keys.
7. Store the battery pack in a dry place, 0 to +40 degrees Celsius.
8. Dispose of used batteries according to environmental guidelines.

Introduction

Congratulations! The Ripwave™ Modem is a user-friendly, easy-to-install device that helps you connect wirelessly to the Internet. It provides complete broadband Internet access to residential and small office/home office (SOHO) customers without the necessity of professional hardware installation. The Ripwave Modem also provides nomadic service availability as a computer with this device is moved from room to room, location to location, or even city to city as long as there is coverage in the area.

Package Inventory

Please verify the contents of your Ripwave Modem package. If you do not find all of these items in your package, notify the supplier from whom you obtained it.

- Ripwave Modem
- Ripwave Modem AC power adapter
- PC-to-Ripwave Modem cable (USB or Ethernet straight cable)
- Ripwave Modem User Guide (on CD)
- Ripwave Modem Quick Installation Guide
- Navini Ripwave Monitor or Navini Diagnostics Installation CD

Ripwave Models

Your Ripwave Modem will operate in either the 2.3 GHz, 2.4 GHz, 2.5 GHz, 2.6 GHz, 3.4 GHz, or 3.5 GHz range. Within each frequency range there are several model types, described on the next page. The 2.4 GHz Modem varies slightly in appearance. Also, in Release 4.2, the 2.4, 2.5, 2.6, 3.4, and 3.5 GHz Modems are available in both an LED and LCD version.

Operating Frequencies

Modem	Model	Frequency Range	Operating Band
2.3 GHz LED	2300E/U	2.305 GHz – 2.385 GHz	WCS+
2.4 GHz LED	2400 E/U	2.400 GHz – 2.483	ISM
2.4 GHz LCD	2400-2483 LCD E/U	2.400 GHz – 2.483 GHz	ISM
2.5 GHz LED	2500 E/U	2.500 GHz – 2.596 GHz	MMDS/ITFS
2.5 – 2.7 GHz LCD	2.5-2.6 LCD E/U	2.500 GHz – 2.686 GHz	MMDS/ITFS
2.6 GHz LED	2600 E/U	2.596 GHz – 2.686 GHz	MMDS/ITFS
3.4 GHz LED	3400 E/U	3.410 GHz – 3.525 GHz	BWA/FWA
3.4 GHz LCD	3410-3525 LCD E/U	3.410 GHz – 3.525 GHz	BWA/FWA
3.5 GHz LED	3500 E/U	3.500 GHz – 3.600 GHz	BWA/FWA
3.5 GHz LCD	3475-3600 LCD E/U	3.475 GHz – 3.600 GHz	BWA/FWA

The “E” in the model name stands for Ethernet, and the “U” in the model name stands for Universal Serial Bus (USB). Your computer will have one of these two types of ports for connecting the Modem.

Computer Connections

- An **Ethernet** connection will function with any Win32[®] Operating System (Windows[®] 95 or later).



- A **USB** connection will function only with Windows[®] 98SE, Windows[®] 2000, Windows[®] ME, or Windows[®] XP. It will not work with Windows 95, Windows 98, or Windows[®] NT.



You must have the Ripwave Modem model with the appropriate connection for your computer port.

Minimum Computing Requirements

(See, also, Addendum 1)

Operating System¹:	Ethernet Modems: Any Win32 Operating System (OS) - Windows 95 ² , Windows NT, Windows 98 ³ , Windows 98SE ³ , Windows 2000, Windows ME ³ , Windows XP ⁴ , or later version. USB Modems: Windows 98SE ³ , Windows 2000, Windows ME ³ , Windows XP ^{4,5,6} , or later version. General Information: Ensure that the pc network port is enabled.
CPU:	Pentium level or higher
RAM:	32 MB or the Operating System minimum, whichever is greater
Hard Drive:	50 MB free disk space for either monitoring software (Navini Ripwave Monitor or Navini Diagnostics Tool)
Monitor:	256 colors, 800 x 600 resolution

¹NOTE: To upgrade your Operating System after loading the Navini Monitor or Navini Diagnostics software, you must first uninstall Navini Monitor or Navini Diagnostics prior to upgrading the OS. Otherwise, Navini Monitor or Navini Diagnostics will not work. See [Uninstall](#) instructions in this Guide.

²NOTE: Internet Explorer 3.0 or higher is required for installation on Windows 95 Operating Systems.

³NOTE: The Ripwave Modem must be left powered ON whenever you shut down or restart any Windows 98 or ME platforms. If the Modem is off, a blue screen appears on the monitor. In the event that happens you will most likely have to power cycle the PC.

⁴NOTE: Windows XP must be Service Pack Level 1 or higher.

⁵NOTE: Navini Diagnostics software is supported on Win98, Win98SE, Win2000, WinME, WinXP or higher, Mac X (also called Mac10) or higher, or Red Hat Linux 8.0 or higher. Mac users must have the Snuffit extraction software.

⁶NOTE: USB will not work with Windows 95, Windows NT or Windows 98.

The Ripwave Modem installation sections include instructions for both Ethernet and USB connections. Be sure to use the instructions that apply to your Ripwave model. The Navini Monitor software installation procedure is the same for any of the Ripwave models.

This manual will guide you through the simple process of installing the Ripwave Modem and software, which has been developed to optimize the ease and convenience for you, our valued customer. The 2.6 GHz model is used in most of the illustrations in this manual where there are no differences in the 2.3, 2.4, 2.5, 2.6, 3.4 & 3.5 GHz models.

If you experience any difficulties with your unit, please contact your Service Provider or the vendor from whom you obtained your Ripwave Modem.

Physical Characteristics

The 2.4 GHz Ripwave Modem varies in some aspects from the 2.3, 2.5, 2.6, 3.4 and 3.5 Modems. As well, the Ethernet connection on any model varies from a USB connection. Notice the differences highlighted in the photos below and on the following page.

2.4 GHz LED Ripwave Modem

Physical
Characteristics,
continued

2.3, 2.5, 2.6, 3.4 & 3.5 GHz LED Ripwave Modems

Physical
Characteristics,
continued

LCD Ripwave Modems (2.4, 2.5-2.7, 3.4, & 3.5 GHz)

Installing an Ethernet Modem

(See, also, Addendum 1)

The following instructions are for the installation of a Ripwave Modem that has a Ethernet connection. Please read all instructions before attempting the installation. It is advisable to turn off the computer and the Ripwave Modem before performing the installation.

Step	Action	Illustration (using LED Modem)
1.	Connect the Ethernet cable to the Ethernet port on the computer.	
2.	Connect the other end of the Ethernet cable to the Ripwave Modem.	
3.	Connect the AC power adapter to the Ripwave Modem. Plug the other end into a 110/220 VAC 60/50 Hz outlet. CAUTION! Only use the AC power adapter specifically supplied with the Ripwave Modem. Using any other adapter may cause damage to the Modem.	



Installing an Ethernet Modem, continued

Step	Action	Illustration (using LED Modem)
4.	Rotate the antenna on the Ripwave Modem clockwise 180 degrees to the UP position. This reveals the Ripwave Modem indicator lights.  CAUTION! Rotation or movement of the antenna in any other direction may cause damage to the Ripwave Modem.	
5.	Turn the Modem ON. On the 2.4 GHz modem, do this by flipping the On/Off switch to the up position. On all other models, push the On/Off button in.	2.4 GHz 2.3, 2.5, 2.6, 3.4, 3.5 GHz ◀ ▶
6.	If the green Power LED lights, proceed to Step 7. (On an LCD Modem, the display turns on.) If not, there is a problem with the Modem or the AC power adapter. Check all cables for proper connection. If there is still a problem, contact the supplier who gave you the package.	

Installing an Ethernet Modem, continued

	Installing Navini Monitor” section of this manual.	
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Installing a USB Modem

(See, also, Addendum 1)

The following instructions are for the installation Ripwave Modem that has a USB connection. Please read all instructions before attempting the installation. It is advisable to turn off the computer and the Ripwave Modem before performing the installation.

Note: The screenshots shown in these instructions were taken from a laptop with Windows 2000. If you have a Windows 98SE, XP, or ME operating system, the screens you see may vary from the screens shown in the instructions.

Step	Action	Illustration (using LED Modem)
1.	Connect the USB cable to the USB port on the computer.	
2.	Connect the other end of the USB cable to the back of the Ripwave Modem.	

Step	Action	Illustration
7.	Turn your computer on and log in.	
8.	Proceed to the “Troubleshooting /	

Installing a USB Modem,
continued

Step	Action	Illustration (using LED Modem)	
3.	Connect the AC power adapter cable to the back of the Ripwave Modem. Plug the other end of the cable into a 110/220 VAC, 60/50 Hz outlet.  CAUTION! Only use the AC power adapter specifically supplied with the Ripwave Modem. Using any other adapter may cause damage to the Modem.		
4.	Rotate the antenna on the Ripwave Modem 180 degrees to the UP position. This reveals the Modem's indicator lights.  CAUTION! Rotation of the antenna in any other direction may cause damage to the Modem.		
5.	Turn the Modem ON. On the 2.4 GHz Modem, do this by flipping the On/Off switch to the up position. On all other models, push the On/Off button in.	2.4 GHz	2.3, 2.5, 2.6, 3.4, 3.5 GHz

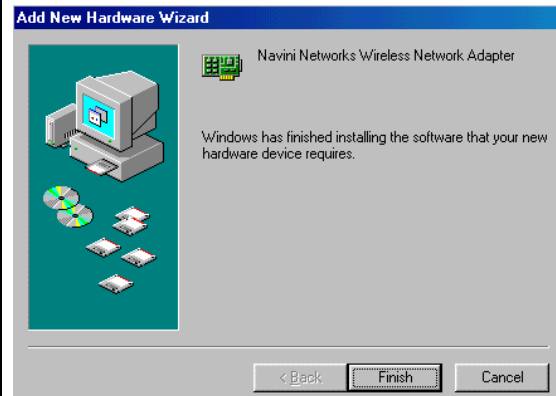
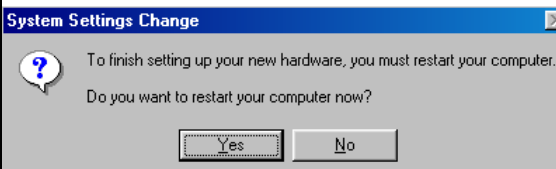
Installing a USB Modem,
continued

Step	Action	Illustration
6.	If the green Power LED lights, proceed to Step 7. (On an LCD Modem, the display turns on.) If not, there is a problem with the Modem or the AC Power Adapter. Check all cables for proper connection. If there is still a problem, contact the supplier who gave you the package.	
7.	 NOTE: For Windows 2000, you must be logged into an account having Administrative privileges to install the Ripwave Modem and its software.	
8.	Plug-and-Play will detect the Ripwave device now attached to the computer, and it will launch the Plug-and-Play application. If this does not happen, the problem may be due to one of the following: • Windows NT and Windows 95 do not support a USB device. • The Modem is not turned on. • The Modem is not connected properly to the computer.	

Installing a USB Modem,
continued

Step	Action	Illustration
9.	The Add New Hardware Wizard dialog box appears. Click Next to continue.	Windows 2000 Screen 
10.	Insert the Ripwave Installation CD into the computer's CD-ROM drive.	
11.	Select the 'Search for the best driver for your device' option. Click Next to continue.	Windows 2000 Screen 
12.	Select the 'CD-ROM drive' checkbox. Click Next to continue.	Windows 2000 Screen 

Installing a USB Modem,
continued

Step	Action	Illustration
13.	Confirm that the drive location is correct (it may be different than the one shown in the illustration). The file to be installed should say 'NETNUSB.INF'. Click Next to continue	Windows 2000 Screen 
14.	Windows will finish installing the software files required for the Ripwave Modem operation. Click Finish.  NOTE: For Window 98, a window may appear asking for drivers to be installed from the Windows 98 setup disk. If so, insert the Windows 98 setup disk into the CD-ROM drive at this time and accept the defaults.	Windows 2000 Screen 
15.	After clicking Finish, the System Settings Change window appears asking if you want to restart your computer now. Click Yes. You must restart your computer at this point before proceeding.	Windows 2000 Screen 
16.	After the computer restart is complete, proceed to the "Troubleshooting" section of the manual.	

Accessing the Internet

With your Modem now installed, and both the Modem and computer power on, you should be able to surf the Internet! To access the Internet, open the web browser that is installed on your computer.

Troubleshooting

After installation, if you are experiencing difficulties with your Internet connection, please review the [Minimum Computing Requirements](#) and [Addendum 1](#) to ensure your computer meets those requirements. Next, go back over the installation procedures and ensure those steps were completed properly.

Assuming the computer requirements are met and the installation steps were completed as required, you will need to observe the light indicators on the front of the LED Modem or the signal sync and signal strength indicators on the LCD Modem. You also may need to install the monitoring software. This software is provided on a CD that came in your Modem package. Navini offers two types of monitoring software. The first type, called the Navini Ripwave Monitor, is available with Ripwave Modems that have a software release *prior* to release 4.0. The second type, called the Navini Diagnostics Tool, is available with Ripwave Modems that have a software release of 4.0 or greater.

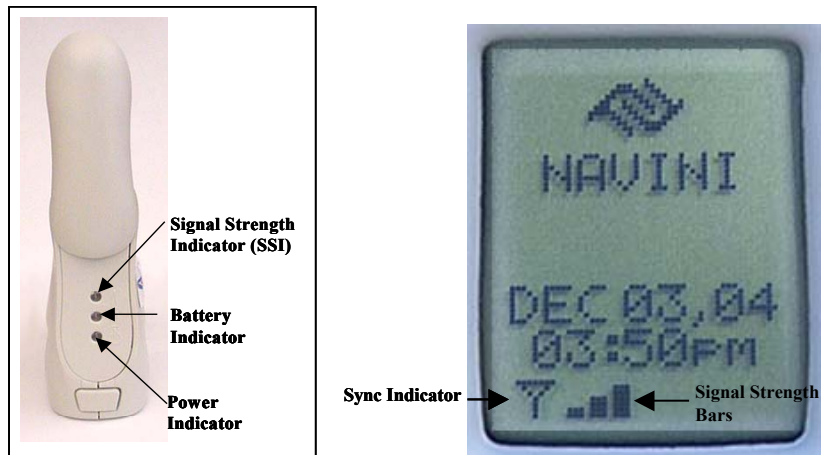
The Navini Monitor and Navini Diagnostics software assists in solving connection problems as well as providing information about the battery power in cases where batteries are used. Batteries are optional with some Ripwave LED Modems.

Indicator Lights or LCD Display

The indicator lights on the front of the LED Modem provide valuable information about its operation. They change appearance to designate the state of the items that they represent. Used in conjunction with the monitoring software, you can troubleshoot signal issues, network connections, and power problems.

The LCD Display performs the same function as the indicator lights. However, instead of using colored lights, it provides a text-based display.

Indicator Lights or LCD Display, continued



LED Indicator Lights:	
Signal Strength Indicator (SSI) Light	
Constant Green:	Strong signal
Constant Yellow:	Medium signal
Constant Red:	Weak signal
Flashing Red:	No signal
Battery Indicator Light	
Constant Yellow:	Battery is charging
Constant Red:	Battery is less than 20% charged
Flashing Red:	Battery is less than 10% charged
Off:	Battery is fully charged or not installed
Power Indicator Light	
Constant Green:	The Modem is ON (AC or DC power)

LCD Display Symbols	
Sync Indicator	Antenna symbol appears when the Modem is in sync and sync strength is at least -110 dBm.
Signal Strength Bars	1 bar means signal strength > -110 dBm and ≤ -90 dBm 2 bars mean signal strength > -90 dBm and ≤ -80 dBm 3 bars mean signal strength > -80 dBm and ≤ -70 dBm 4 bars mean signal strength > -70 dBm

Installing Navini Ripwave Monitor (NavMon)

Navini's monitoring software (Navini Ripwave Monitor or Navini Diagnostics) provides two types of information: signal strength and quality of the incoming signal. It also can provide information about the connectivity to the Service Provider's network. These displays may be required when troubleshooting Modem problems.

The next few sections will discuss how to install, troubleshoot with, and uninstall your Navini Ripwave Monitor (NavMon) software. If your Ripwave Modem has a software release of 4.0 or greater, you do not have the NavMon. You have the Navini Diagnostics software. You should refer to the sections that discuss how to install, troubleshoot with, and uninstall your Navini Diagnostics software.

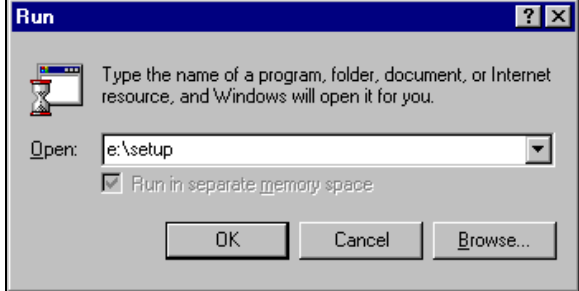
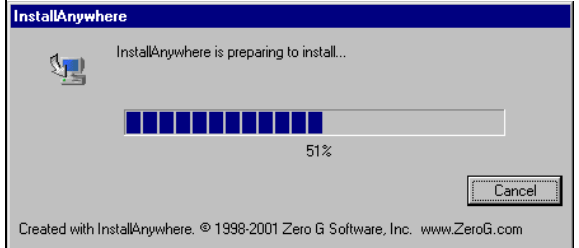
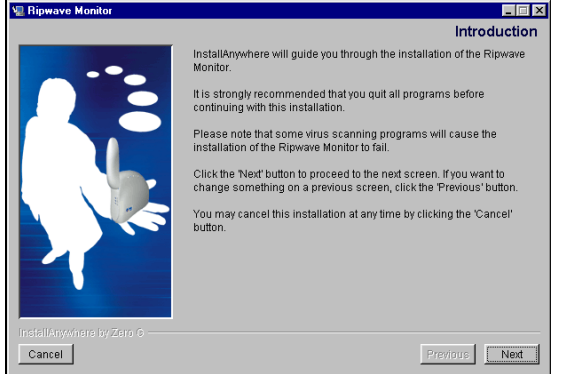
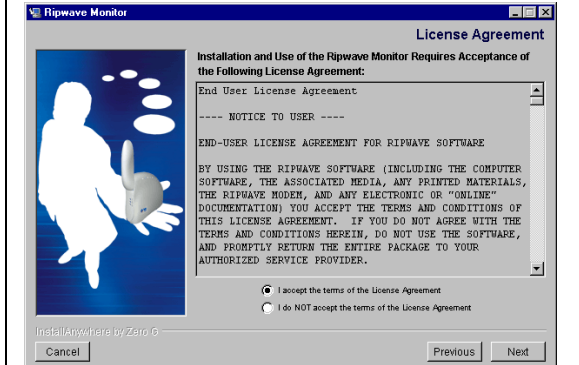
Before you install your NavMon software, please note:

- For Windows NT and Windows 2000 you must log into an account having Administrative privileges in order to install the Navini Monitor software.
- For Windows 98, and 98SE Operating Systems (OS), the OS CD may be required to complete this installation. If prompted, insert the OS CD into the CD-ROM drive and accept the defaults.
- After the NavMon software is loaded, if you must upgrade your PC OS, first uninstall NavMon *prior* to upgrading the OS. Otherwise, NavMon will not work. See [Uninstall](#) instructions in this Guide.

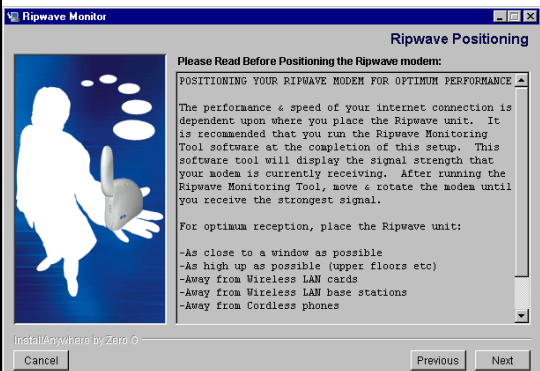
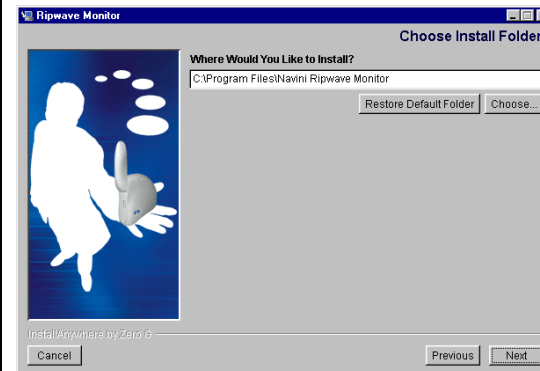
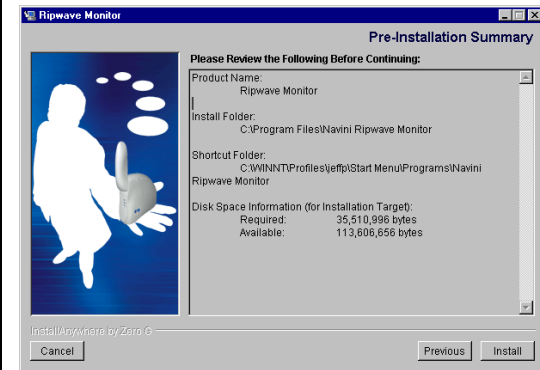
Note: The screenshots shown in these instructions were taken from a laptop with Windows 2000. If you have a Windows 98, XP, or ME operating system, the screens you see may vary from the screens shown in the instructions.

Step	Action	Illustration
1.	Shut down all programs, including anti-virus software programs, before installing the Navini Ripwave Monitor software.	
2.	Insert the NavMon Installation CD into the CD-ROM drive.	

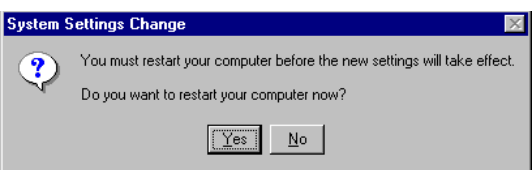
Installing Navini Ripwave Monitor (NavMon), continued

Step	Action	Illustration
3.	At the bottom left-hand corner of your screen, click Start > Run . In the Run window, enter e:\setup in the Open field (where “e” represents the CD drive). Use whatever letter represents your CD drive. Click OK to continue.	Windows 2000 Screen 
4.	The InstallAnywhere window appears. The progress bar indicates that InstallAnywhere has initialized.	Windows 2000 Screen 
5.	The Navini Ripwave Monitor Introduction screen appears. Click Next to continue.	Windows 2000 Screen 
6.	The License Agreement screen appears. Read the Licensing Agreement. Select the I Accept option, and click Next to continue.  NOTE: If the License Agreement is not accepted, you cannot install the software.	Windows 2000 Screen 

Installing Navini Ripwave
Monitor (NavMon),
continued

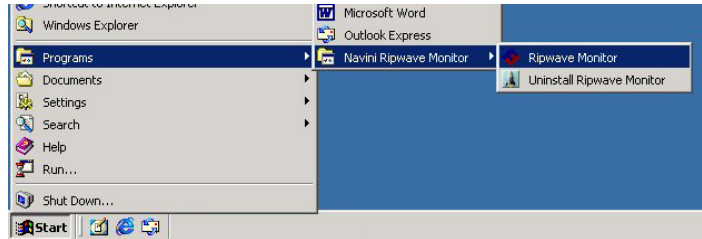
Step	Action	Illustration
7.	The Ripwave Positioning screen appears. Read the screen for positioning the Ripwave Modem for optimum performance. Click Next to continue.	Windows 2000 Screen 
8.	The Choose Install Folder screen appears. Enter the name of the folder where you wish to install the software. Click Next to continue. The default installation folder provided by the software is shown in the illustration.	Windows 2000 Screen 
9.	The Pre-Installation Summary screen appears. Review the contents for accuracy. Click Install to continue.  NOTE: For your installation and computer, this screen may have different information than what is shown in the illustration.	Windows 2000 Screen 

Installing Navini Ripwave Monitor (NavMon), continued

Step	Action	Illustration
10.	The Installing screen will display as the application files are loaded.	Windows 2000 Screen 
11.	At the Install Complete screen, click Done to close the window.	Windows 2000 Screen 
12.	After clicking Done the System Settings Change window appears, asking if you want to restart your computer now. Click Yes.  NOTE: You must restart your computer at this point before proceeding.	Windows 2000 Screen 

Troubleshooting Using Navini Ripwave Monitor (NavMon)

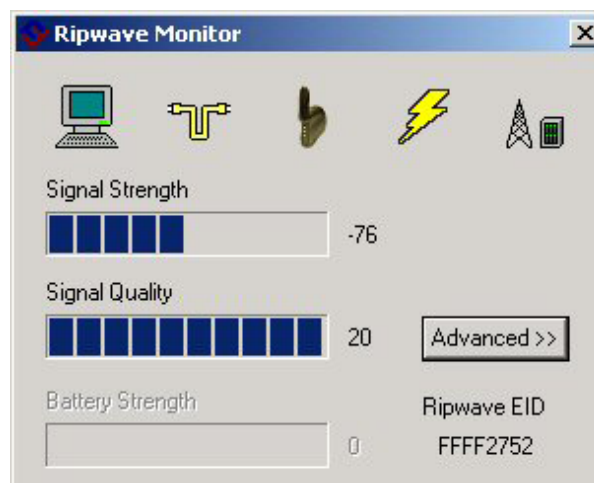
To open the NavMon software application, click on the “Start” button and select Programs→Navini Ripwave Monitor→Ripwave Monitor.



The Navini Ripwave Monitor icon will appear in the toolbox tray of your computer. Double-click on this icon.

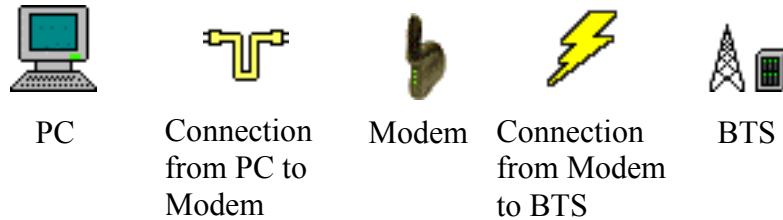


A window with icons and, provided your Modem is on, bar graphs, will pop up. Notice the bottom right corner of the window shows the Equipment Identification (EID) for your specific Ripwave Modem. If you talk with a Service Technician while troubleshooting, you may be asked for this number.



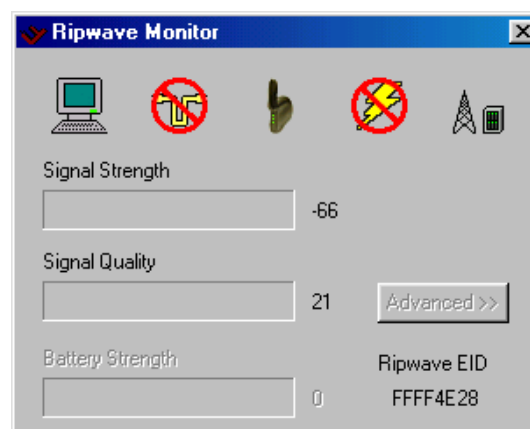
Troubleshooting Using Navini Ripwave Monitor (NavMon), continued

The icons represent the PC, the connection between the PC and the Modem, the Modem, the connection between the Modem and the Base Station, and the Base Station with which the Modem is communicating.



The Signal Strength and Signal Quality are dynamic bar graphs that indicate how well your Modem is receiving signals from the Base Station. The Signal Strength is a negative number; therefore, the stronger the signal, the *lower* (in absolute value) the number displayed to the right of the bar. For example, -75 indicates a stronger signal than -90. On the other hand, the Signal Quality is a positive number; therefore, the higher the quality of the signal, the higher the number displayed to the right of the second bar. For example, 21 indicates a better signal than 15.

To increase the strength and quality of the signal, change the location of the Ripwave Modem. Try moving it closer to a window, to a higher location, away from other wireless devices (microwave ovens, cordless phones), and away from metal objects (shelves, file cabinets). As the Ripwave Modem is repositioned, observe the Signal Strength and Signal Quality bar graphs. Position the Modem for maximum signal strength and quality.



Troubleshooting Using Navini Ripwave Monitor (NavMon), continued

If you make a service call to your Service Provider, the Technician may ask you to read the numbers to the right of the signal bar graphs. These will help the Technician to evaluate the best position for your Ripwave Modem. The Battery Strength bar graph and the number to the right of it indicate how much charge is left in the battery. Not all Modems have the battery option. Only some LED Modems have a battery option. Without a battery in the Modem, the Battery Strength bar graph and number will be disabled (grayed out).

If the connection between the PC and the Modem or between the Modem and the Base Station is interrupted, a red circle with a slash  will be positioned over the corresponding icon.

In this example, the cable connecting the computer and Modem is not operational; the wireless signal between Modem and Base Station is down; and there is no battery being used.

To check connectivity to the Service Provider's network, click the Advanced button on the NavMon window. The Advanced section of the window appears and displays several strings of characters representing selected IP-addressable nodes in the network. These strings of characters (displayed) and the associated IP addresses (not displayed) are configurable by the Service Provider on a BTS-per-BTS basis. Note that if the connection between the Ripwave Modem and the Base Station is down, the Advanced button will be disabled (grayed out).

The blue question marks on the right side of the Advanced section indicate that all connections are untested. Now click on the Run Tests button at the bottom of the window. The PC will attempt to ping the IP address associated with each one of the character strings. Each blue question mark will change to either a blue checkmark or a red circle with a slash mark. A blue checkmark indicates that the connection to the IP is good. A red circle with a slash mark indicates there is a problem with that connection to that IP (although the problem could be that an incorrect or unreachable IP was configured).

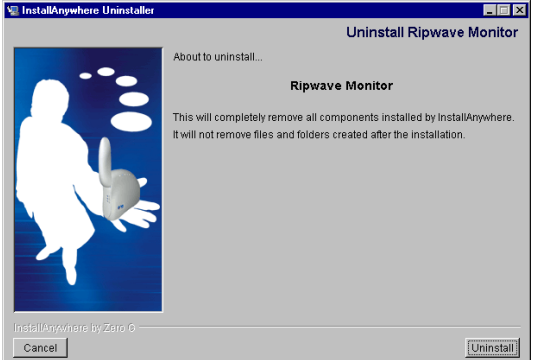
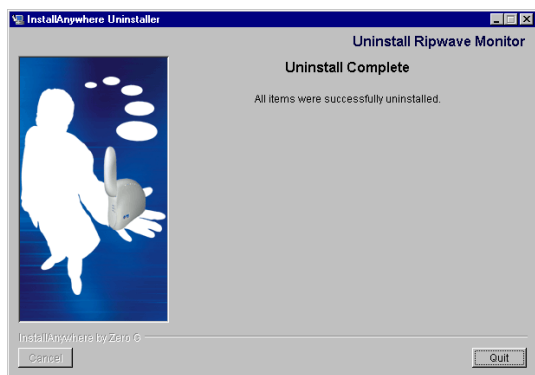
Troubleshooting Using Navini Ripwave Monitor (NavMon), continued

The features of the Advanced and Run Tests buttons are to be used in conjunction with your Service Provider Technician to resolve problems. There is no need to use these features unless you are experiencing problems with the Modem.

Uninstalling Navini Ripwave Monitor (NavMon)

If for some reason you need to uninstall the Navini Ripwave Monitor software, e.g., to upgrade your Operating System software, follow the procedure below.

Note: The screen shots shown in these instructions were taken from a laptop with Windows 2000. If you have a Windows 98, XP, or ME operating system, the screens you see may vary from the screens shown in the instructions.

Step	Action	Illustration
1.	On your computer screen lower left corner, click on Start > Programs > Navini Ripwave Monitor > Uninstall Ripwave Monitor . The Install-Anywhere Uninstaller screen appears. Click Uninstall .	Windows 2000 Screen 
2.	The screen will cycle through as the application files are uninstalled.	Windows 2000 Screen 
3.	The Uninstall Complete screen appears when finished. Click on Quit to close the Uninstall screen.	Windows 2000 Screen 

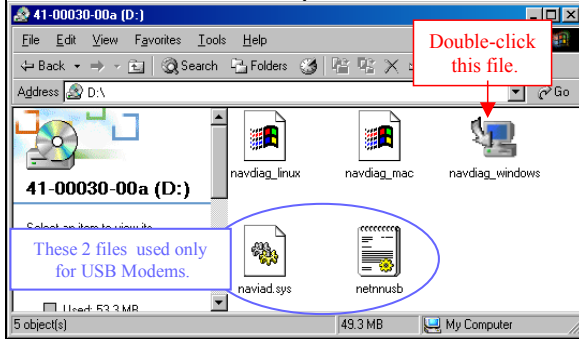
Uninstalling Navini
Ripwave Monitor
(NavMon), continued

Step	Action	Illustration
4.	Restart the PC to complete the uninstall process. This will ensure it functions properly after uninstalling.	

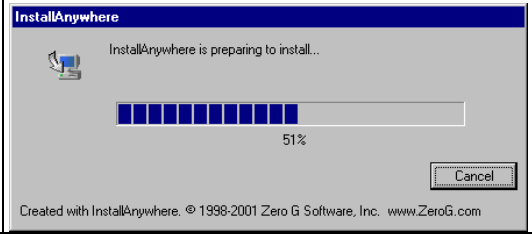
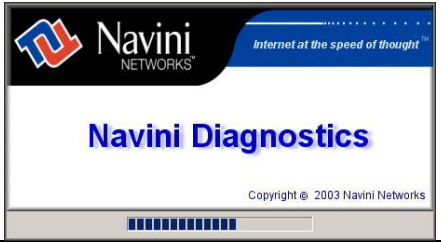
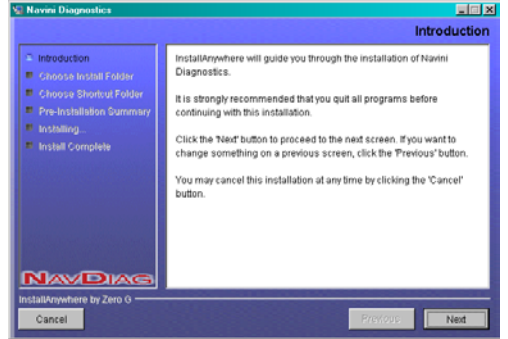
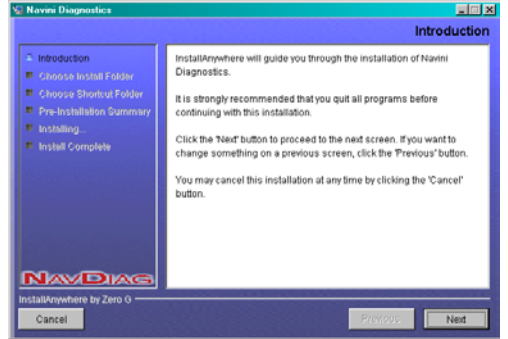
Installing Navini Diagnostics (NavDiag)

If your Ripwave Modem has a software release prior to 4.0, you have the Navini Monitor software and not the Navini Diagnostics.

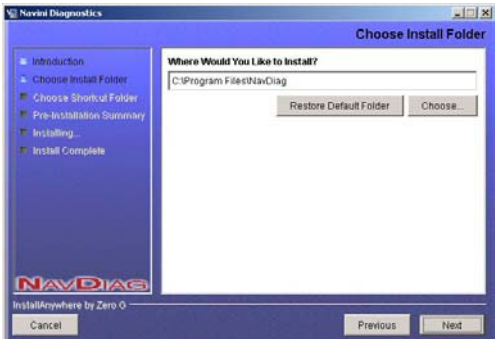
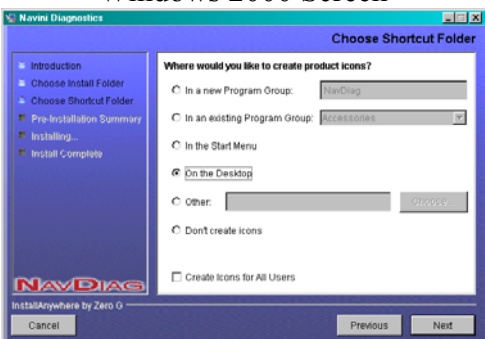
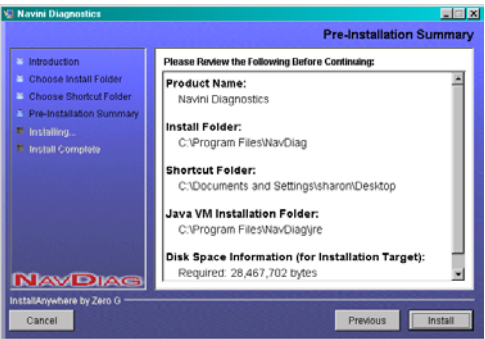
Note: The screenshots shown in these instructions were taken from a laptop with Windows 2000. If you have a Windows 98, XP, or ME operating system, the screens you see may vary from the screens shown in the instructions.

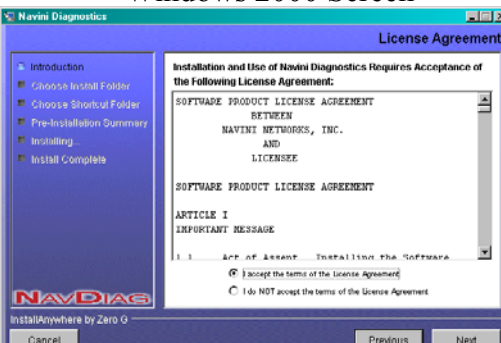
Step	Action	Illustration
1.	Shut down all programs, including anti-virus software programs, before installing the Navini Diagnostics software.	
2.	Insert the Navini Diagnostics Installation CD into the CD-ROM drive.	
3.	Open the CD by clicking on the My Computer icon. Double-click on the folder named Navini_Diagnostics.	
4.	Double-click on the icon for the file navdiag_windows.exe* . This will automatically start the installation of Navini Diagnostics. *If your PC is running Mac or Linux software, you will need the navdiag_mac.sit or navdiag_linux.bin file. Mac users will need the Snuffit extraction software.	<i>Example:</i> 

Installing Navini Diagnostics (NavDiag), continued

Step	Action	Illustration
5.	The InstallAnywhere window appears. The progress bar indicates that InstallAnywhere has initialized.	Windows 2000 Screen  Created with InstallAnywhere. © 1998-2001 Zero G Software, Inc. www.ZeroG.com
6.	The Navini Diagnostics Language screen appears*. Select a language and click OK to continue. *NOTE: Your version of NavDiag may automatically attempt to match whatever language is set on your PC under Regional Options. The language selection concerns how NavDiag displays its screens. If you receive an error message concerning the language, click OK and NavDiag will default to English. The 3 languages supported by NavDiag at this time are: English (U.S.), Spanish (Spain), and Dutch (Holland).	Windows 2000 Screen 
7.	The progress bar indicates the files being installed.	Windows 2000 Screen 
8.	The Navini Diagnostics Introduction screen appears. Click Next to continue.	Windows 2000 Screen 

Installing Navini Diagnostics (NavDiag), continued

	option, and click Next to continue.	
	NOTE: If the License Agreement is not accepted, you cannot install the software.	
10.	The Choose Install Folder screen appears. Enter the name of the folder where you wish to install the software. Click Next to continue.	Windows 2000 Screen 
	NOTE: The default installation folder provided by the software is shown in the illustration.	
11.	The Choose Shortcut Folder screen appears. Select On the Desktop and click Next to continue.	Windows 2000 Screen 
12.	The Pre-Installation Summary screen appears. Review the contents for accuracy. Click Install to continue.	Windows 2000 Screen 
	For your installation and computer, this screen may have different information than what is shown in the illustration.	

Step	Action	Illustration
9.	The License Agreement screen appears. Read the Licensing Agreement. Select the I Accept	Windows 2000 Screen 



Installing Navini
Diagnostics (NavDiag),
continued

Step	Action	Illustration
13.	The Installing screen will display as the application files are loaded.	
14.	At the Install Complete screen, click Done to close the window.	Windows 2000 Screen 

Troubleshooting Using Navini Diagnostics (NavDiag)

To open the Navini Diagnostics software application, double-click on the Navini Diagnostics icon on your desktop.



Navini Diagnostics.lnk

The Connection Status screen will open and display data if the Modem is in session. The screen will refresh live data every second.

Troubleshooting Using Navini Diagnostics (NavDiag), continued

The icons represent the PC, the connection between the PC and the Modem, the Modem, the connection between the Modem and the Base Station, and the Base Station to which the Modem is communicating. Check marks over the connections indicate working connections.



If the connection between the PC and the Modem or between the Modem and the Base Station is interrupted, an “X” is positioned over the corresponding icon.



The Signal Strength and Signal Quality are dynamic bar areas that indicate how well your Modem is receiving signals from the Base Station. In particular, the Signal Strength bar area graphically represents the strength of the Absolute BTS Synchronization Signal received by the Modem. The strength of the signal is represented by a group of colored bars. The higher the pile of bars goes, the stronger the signal is. The color of the bars also gives an indication of the strength of the signal. Green bars indicate an excellent signal. Orange bars indicate a good signal while red bars indicate a weak signal.

Troubleshooting Using Navini Diganostics (NavDiag), continued

The Signal Quality bar area graphically represents the Signal-to-Noise Ratio (SNR) of the downlink access code channel (ACC) received by the Modem. Again, the SNR is represented by a group of colored bars. The higher the pile of bars goes, the better the SNR of the signal. The color of the bars also gives an indication of the quality of the signal. Green lines indicate a high SNR. Orange lines indicate a moderate SNR while red lines indicate a low SNR.

To increase the strength and quality of the signal, change the location of the Ripwave Modem. Try moving it closer to a window, to a higher location, away from other wireless devices (microwave ovens, cordless phones), and away from metal objects (shelves, file cabinets). As the Ripwave Modem is repositioned, observe the Signal Strength and Signal Quality bars. Position the Modem for maximum signal strength and quality.

The History graphs plot the change in signal strength and signal quality over time. The graphs cover the last minute and are updated every second. Read the graphs from right to left. The right side of the graph represents the most recent status of your Modem.

At the bottom of the Connection Status screen, are four parameters. These parameters are BTS ID, Network ID, Active SW Version, and Standby SW Version. The BTS ID and Network ID indicate the BTS to which the Modem is currently synchronized and the network in which the Modem is operating. Active SW Version and Standby SW Version indicate the version number of the software currently loaded in the “active side” and “standby side” of the Modem’s flash memory.

Troubleshooting Using
Navini Diganostics
(NavDiag), continued

The two letters in parenthesis following the release number indicate the type of software load. JD indicates Joint Detection, while EN indicates Enhanced Nulling.

On the left-hand side of the screen, there are five screen options: Connection Status, Configuration, Trend Analysis, Statistics, and About. The following screen will appear when you press the Configuration button.

The Configuration screen enables you to update your Modem's software if you are so directed by your Service Provider. If you must update your Modem's software, your Service Provider will provide you with instructions regarding what to do.

The Allow Customer Satisfaction Reporting box gives you control over whether your Service Provider is allowed to monitor your Modem using the remote CPE Logging function and to use your computer to store the CPE log files created by this function. By default, this box is checked which means the Service Provider can monitor your Modem. Currently, this feature works only with LED Modems.

The Trend Analysis screen enables you to view how some Modem parameters evolve over time. With this screen, you can select up to three parameters to plot. To view the Trend Analysis screen, press the Trend Analysis button.

Troubleshooting Using
Navini Diganostics
(NavDiag), continued

By pressing the Plot Graph button, the following screen will appear. This screen displays the value of the selected parameters over the last five minutes, updated once every second. The graphic scrolls from right to left.

To view the Statistics screen, press the Statistics button. The statistics screen enables you to view the current value of selected parameters. These values are updated as they change over time.

Troubleshooting Using Navini Diganostics (NavDiag), continued

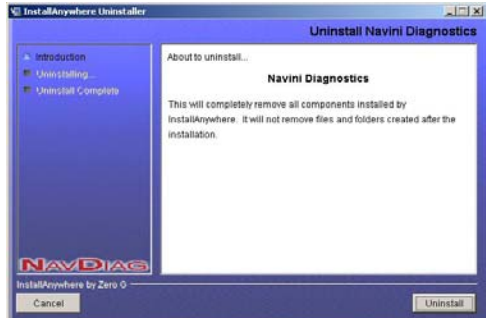
The About screen provides vital information such as the version of the Navini Diagnostics software currently installed in your computer. It also provides a website address and telephone number where you can contact your Service Provider. To view the About screen, press the About button. An example of the About screen follows.

A Help button appears on the top right corner of all the NavDiag windows. The Help button gives you two options. The first option, On NavDiag, provides help text on the functionality of the NavDiag program. The second option, About NavDiag, is equivalent to clicking on the About icon.

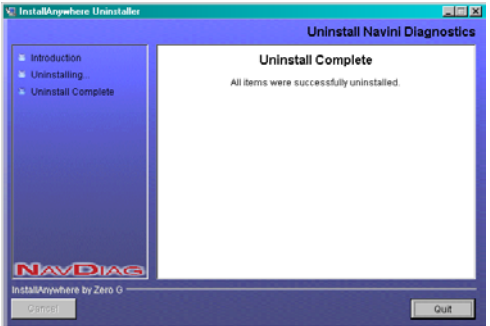
Uninstalling Navini Diagnostics (NavDiag)

If for some reason you need to uninstall the Navini Diagnostics software, e.g., to upgrade your Operating System software, follow the procedure below.

Note: The screen shots shown in these instructions were taken from a laptop with Windows 2000. If you have a Windows 98, XP, or ME operating system, the screens you see may vary from the screens shown in the instructions.

Step	Action	Illustration
1.	On your computer screen lower left corner, click on Start > Programs > NavDiag > Uninstall.	Windows 2000 Screen
2.	The Install-Anywhere Uninstaller screen appears. Click Uninstall.	Windows 2000 Screen 
3.	The screen will indicate the application files are uninstalled.	Windows 2000 Screen 

Uninstalling Navini
Diagnostics (NavDiag),
continued

Step	Action	Illustration
4.	The Uninstall Complete screen appears when finished. Click on Quit to close the Uninstall screen.	Windows 2000 Screen 
5.	Restart the PC to complete the uninstall process. This will ensure the uninstall process completes successfully.	

Optional Batteries

The Ripwave LED and LCD Modems have two types of optional batteries associated with them: internal and external battery packs. The internal battery pack is inserted into the Modem. Currently, this battery pack has been manufacture discontinued. However, existing internal battery packs are still supported.

The external battery packs come in two sizes. The Standard External Battery Pack (S-EBP) provides approximately 16 Watt-Hours of power while the Heavy Duty-External Battery Pack (HD-EBP) provides approximately 44 Watt-Hours of power.

This section describes how to install and charge the optional internal and external battery packs.

Installing and Charging the Optional Internal Battery

If you have an internal battery packs, the battery pack is installed in the bottom of the Ripwave Modem. The battery compartment of the 2.4 GHz Ripwave Modem varies from the 2.3, 2.5, 2.6, 3.4 and 3.5 GHz models. To install and charge or remove the battery pack, follow the steps based on your model of Modem.

2.4 GHz Battery

Step	Action	Illustration
1.	Squeeze both tabs to remove or install the battery pack cover. Note that the cover is not used when the battery pack is installed in the Modem.	
2.	Install the battery pack into the Ripwave Modem, ensuring that the contacts on the battery pack mate with the contacts in the Modem and that both slides snap down securely.	
3.	Reinstall the battery pack cover on the Modem.	
4.	To charge the battery, connect the AC adapter to the Modem and to an AC power source (110/220 VAC, 60/50 Hz). The battery immediately will begin charging regardless of whether the On/Off switch is on. However, the pack will charge faster if the on/off switch is in the OFF position. If the on/off switch is ON, the light indicator will be constant yellow. When fully charged, the light will go off.	

2.3 GHz, 2.5 GHz, 2.6 GHz, & 3.5 GHz Battery

Step	Action	Illustration
1.	Applying light pressure, push the tab on the battery pack cover to remove it from the bottom of the Modem.	
2.	Install the battery pack into the Modem, ensuring that the contacts mate and that both sides snap down securely.	
3.	Reinstall the battery pack cover on the Modem.	
4.	To charge the battery, connect the AC adapter to the Modem and to an AC power source. The battery will begin charging immediately regardless of whether the On/Off switch is on. However, the pack will charge faster if the on/off switch is in the OFF position. If the on/off switch is ON, the light indicator will be constant yellow. When fully charged, the light will go off.	

Optional External Battery Packs

The external batteries are not installed inside the Modem. Instead they are connected to the Modem. Before we discuss how to connect and charge the external battery packs, let's discuss the differences between the Standard External Battery Pack (S-EBP) and the Heavy Duty External Battery Pack (HD-EBP).

- The S-EBP can be used with any of the LED or LCD Modems. The HD-EBP can be used with all LED and LCD Modems except for the 2.4 GHz LED Modem. The 2.4 GHz Modem can use only the S-EBP.
- The HD-EBP provides 44 Watt-Hours of power while the S-EBP provides 16 Watt-Hours of power.
- The amount of time the S-EBP and HD-EBP can operate before recharging varies. This time is dependent of the usage run on the Ripwave Modem. The following table shows example approximations for how long the batteries can run before a recharge is required.

Usage	Approximate hours of Usage Before Recharge Required	
	S-EBP	HD-EBP
Standard	2.2	5.9
Moderate	1.5	4.0
Heavy	1.2	3.4

Connecting the Standard External Battery Pack (S-EBP)

To connect the S-EBP to any of the LED or LCD Modems, plug the battery's pig-tail cord into the input socket located on the back of the Modem.

The Indicator Light on the Standard External Battery Pack (S-EBP)

The S-EBP has one indicator light that resides on top of the unit. This light has four states associated with it. The states are described below.

- Light is *off* when any of the following apply:
 - The battery is not connected to a Modem or to the battery charger
 - The battery is connected to a Modem but the Modem is off
 - The battery is connected to a Modem and the Modem is on but the battery is empty of power
- Light is *green* when the battery is on and fully charged.
- Light is *amber* when the battery has power but is no longer fully charged. If the battery is connected to the battery charger, an amber light means the battery is being charged.
- Light is *red* when the battery is low on power. When the battery is low, it has approximately 15% of its charge left.

Charging the Standard External Battery Pack (S-EBP)

The S-EBP will need to be recharged when the battery is connected to a Modem and the Modem is turned on but the LED on top of the battery remains off (indicating the battery has no power) or is red (indicating the battery level is low).

To recharge the S-EBP, use only the 12V charger that came with the S-EBP. Using any other charger may damage the battery. To charge the S-EBP, plug the 12V adapter into the 12V input socket on the S-EBP.

NOTE: The battery may charge while it is connected to a Modem.

NOTE: Do not attempt to plug the 12V adapter into the Modem as this may harm the Modem.

Connecting and Disconnecting the Heavy Duty External Battery Pack (HD-EBP)

For LED Modems

If you have a HD-EBP, the battery pack is installed in the bottom of the Ripwave Modem. The bottom of the LED Ripwave Modem varies from the bottom of the LCD Modem. To install and or remove the battery pack, follow the steps based on your model of Modem.

Step	Action	Illustration
1.	Remove the cover from the bottom of the LED Modem.	
2.	Place the back prong of the HD-EBP into the back portion of the opening on the Modem.	
3.	Depress the front button on the HD-EBP so that the front prong moves in toward the center of the HD-EBP.	
4.	Place the front part of the opening on the LED Modem over the front prong on the battery.	
5.	Release the button on the battery.	

For LED Modems,
continued

Step	Action	Illustration
6.	Press firmly down on the Modem so that the Modem firmly connects with the HD-EBP.	
7.	Plug the HD-EBP's pig-tail cord into the power slot on the Modem.	
8.	To remove the battery pack from the Modem, unplug the pig-tail cord. Depress the front button on the HD-EBP. Lift the Modem off of the battery pack.	

For LCD Modems

Step	Action	Illustration
1.	Depress the front button on the HD-EBP so that the front prong moves in towards the center of the HD-EBP.	

For LCD Modems,
continued

Step	Action	Illustration
2.	Place the back slot of the LCD Modem over the back prong of the HD-EBP.	
3.	Place the front part of the opening on the LCD Modem over the front prong on the battery.	
4.	Release the button on the battery.	
5.	Press firmly down on the Modem so that the Modem firmly connects with the HD-EBP.	
6.	Plug the HD-EBP's pig-tail cord into the power slot on the Modem.	
7.	To remove the battery pack from the Modem, unplug the pig-tail cord. Depress the front button on the HD-EBP. Lift the Modem off of the battery pack.	

The Indicator Light on the Heavy Duty External Battery Pack (HD-EBP)

The HD-EBP has one indicator light that resides on the back end of the unit near the pig-tail cord. This light has four states associated with it. The states are described below.

- Light is *off* when any of the following apply:
 - The battery is not connected to a Modem or to the battery charger
 - The battery is connected to a Modem but the Modem is off
 - The battery is connected to a Modem and the Modem is on but the battery is empty of power
- Light is *green* when the battery is on and fully charged.
- Light is *amber* when the battery has power but is no longer fully charged. If the battery is connected to the battery charger, an amber light means the battery is being charged.
- Light is *red* when the battery is low on power. When the battery is low, it has approximately 15% of its charge left.

Charging the Heavy Duty External Battery Pack (HD-EBP)

The HD-EBP will need to be recharged when the battery is connected to a Modem and the Modem is turned on but the LED on the back of the battery remains off (indicating the battery has no power) or is red (indicating the battery level is low).

To recharge the HD-EBP, use only the 12V charger that came with the HD-EBP. Using any other charger may damage the battery. To charge the HD-EBP:

- Plug the 12V adapter into the 12V input socket on the HD-EBP.
- Plug the other end of the adapter into an electrical wall socket.

NOTE: Do not attempt to plug the 12V adapter into the Modem as this may harm the Modem.

NOTE: The battery may charge while it is connected to a Modem.

Care & Maintenance

The Ripwave Modem is designed to give years of trouble-free service. To ensure operation, read the following care and maintenance instructions.

- Keep the Modem free of dust and moisture. If the Modem gets wet, use a towel to dry it immediately.
- Handle the Modem gently. Dropping it or mishandling it can cause damage to the plastic shell or the electronic circuitry.
- Keep the Modem away from high temperatures. Heat can cause damage to the plastic shell or the electronic circuitry.
- Use only a mild detergent and a soft, damp cloth to clean the Modem. Do not use any chemicals or abrasives to clean the plastic shell.
- If there is a problem with the Modem, do not attempt to repair it yourself. Report the problem to your Service Provider.
- If you are going to upgrade your Operating System after loading the Navini monitoring software (Navini Ripwave Monitor or Navini Diagnostics), you must first uninstall the monitoring software prior to upgrading the OS. Otherwise, the monitoring software will not work. See Uninstall instructions in this Guide.
- The Ripwave Modem must be left powered ON whenever you shut down or restart any Windows 98 or ME platforms. If the Modem is off, a blue screen appears on the monitor. In the event this happens you will mostly likely have to power cycle the PC.

Upgrading the Modem

There are three different ways to upgrade the software that makes the Modem work.

- Your Service Provider may perform an over-the-air (OTA) upgrade, where the up-to-date software files are transferred wirelessly from the Base Station to your Modem.
- Your Service Provider may provide a downloadable web file or CD-ROM with software to be installed on your PC and used to upgrade the Modem. This method is used for systems that have a software release *prior* to 4.0. You will need the CCU Tool to load the software.
- Your Service Provider may instruct you to use your Navini Diagnostics Tool to upgrade your Modem software load. This method is used for systems that have a software release of 4.0 or greater and have the NavDiag monitoring software installed.

The latter two methods are used only if the Modem was not powered on during the OTA upgrade process. The OTA upgrade is normally transparent to the user; in other words, there should be no noticeable service interruption. The web or CD upgrade comes with instructions and takes a minimal amount of time to complete.

Note: If you use the Navini Diagnostics Tool to upgrade your Modem software load, the computer connected to your Modem must already have an IP address. If your computer does not have an IP address, contact your Service Provider. If you attempt to upgrade your Modem software through the Navini Diagnostics Tool and the computer does not have an assigned IP address, you may see one of the following error messages:

ADDENDUM 1: Ripwave™ Modem - PC Troubleshooting

- For Use With All Ripwave Modems, Navini Ripwave Monitor Software, and Navini Diagnostics Software -

PC Operating Systems

Prior to installing the Navini Ripwave Monitor or Navini Diagnostics software, please check to insure that the PC Operating System meets the criteria given in the table below. If these criteria are not met, unpredictable problems may occur as a result of installation. It is recommended that the user have the latest Windows® updates installed prior to installing the Navini Ripwave Monitor or Navini Diagnostics software.

Operating System	Ethernet interface	USB interface	Notes
Win95	Supported	Not Supported	1, 2
Win98	Supported	Supported	2
Win98, 2nd ed.	Supported	Supported	2
WinME	Supported	Supported	2
Win 2000	Supported	Supported	2, 4
Win NT 3.0/4.0	Supported	Not Supported	1, 2, 4
Win XP	Supported	Supported	3, 4

Note 1: USB was not supported in this software release

Note 2: Internet Explorer 3.0 or higher is required

Note 3: Requires Service Pack 1

Note 4: To load the Navini Ripwave Monitor or Navini Diagnostics software, the user MUST have Administrative privileges.

USB Interface

The USB Modem allows for a single PC to be connected to the Ripwave Modem via a USB interface, or multiple PC's connected via a USB hub. The Modem conforms to USB 1.1 standards. The Ethernet packets generated by the PC are encapsulated within the USB protocol and transferred to the Modem. The packets are then sent over-the-air. The USB Modem is fully supported for PC's using Windows 98, Windows ME, Windows 2000, and Windows NT 5.0.

To install the Modem using a USB interface, you must connect the Modem to the PC first and insert the CD that comes with the modem in the package to load the USB "Miniport" driver. After installing the USB Miniport driver, the PC may or may not need to be restarted, depending upon the type of Operating System and the particular installation. The system will prompt if a reboot is necessary.

Now install the Navini Ripwave Monitor or Navini Diagnostics software. You must ALWAYS reboot the PC after installing or uninstalling this software. Failure to do may gravely affect PC operation.

Ethernet Interface

The Ethernet Modem may be connected to a PC via an Ethernet connection. Also, it is possible to connect multiple PC devices to a single Modem. The multi-PC configuration is transparent to the PC users and is analogous to a multi-PC configuration on a normal Ethernet LAN. Check with your Service Provider if multiple IP addressing is required for your particular configuration. The distinct advantage of the Ethernet Modem is that it connects to any device that has an Ethernet interface. This makes it ideal for small businesses that have a mix of devices, such as Unix machines, Apple Computers, etc. IP addresses can be assigned to the devices dynamically via a DHCP server, or as Fixed IP assignments, or Point-to-Point Protocol Over Ethernet (PPPoE).

Multiple Interface Environments

When a PC has an internal interface (for example, a Wireless Ethernet interface) in addition to the Ripwave Modem, you should do the following:

- If the wireless connection is not required, disable the internal wireless connection
- If the built-in wireless connection is required for local networking and wireline Ethernet is used via the Ripwave Modem for Internet connection, change the interface metric configuration so that the wireline interface's default gateway is used. (See your Operating System's User Guide.)

Routers

Neither the Navini Ripwave Monitor nor the Navini Diagnostics software will work if it goes through a router.

Battery

Older Ripwave Modems gave the user the option of buying an 1800 mA Li-Ion battery. With the optional battery, the user could be connected to the Internet anytime and anywhere there is RF coverage without the need for a power outlet. The Modem battery was rated to provide 30 minutes to 90 minutes of use without recharging (depending on activity).

Configuration Options

Results of Correct Navini Monitor Installation

Experienced PC users can check the results of the Navini Ripwave Monitor installation by looking at the log file that is created during the installation process. The log file is named "Ripwave_Monitor_InstallLog.log." It is located under **c:\Program Files\Navini Ripwave Monitor**.

Install Begin: Tue Jul 20 12:06:49 CDT 2004

Install End: Tue Jul 20 12:06:58 CDT 2004

Created with Zero G's InstallAnywhere 4.5.3 Enterprise Build 1394

Summary

Installation: Successful.

33 SUCCESSES

0 WARNINGS

0 NONFATAL ERRORS

0 FATAL ERRORS

Action Notes:

None.

Install Log Detail:

Custom Action: com.navini.iatool.KillMon

Status: SUCCESSFUL

Check Disk Space: C:\Program Files\Navini Ripwave Monitor

Status: SUCCESSFUL

Additional Notes: NOTE - Required Disk Space: 23,260,112; Free Disk Space: 30,808,473,600

Install Directory: C:\Program Files\Navini Ripwave Monitor\jre

Status: SUCCESSFUL

Additional Notes: NOTE - Directory already existed

Install Directory: C:\Program Files\Navini Ripwave Monitor\

Status: SUCCESSFUL

Additional Notes: NOTE - Directory already existed

Install Directory: C:\Program Files\Navini Ripwave Monitor\UninstallerData\

Status: SUCCESSFUL

Additional Notes: NOTE - Directory already existed

Custom Action: com.navini.iatool.KillMon

Status: SUCCESSFUL

Install Uninstaller: Ripwave Monitor (Install All Uninstaller Components)

Status: SUCCESSFUL

Install File: C:\Program Files\Navini Ripwave Monitor\UninstallerData\Uninstall inst.exe
Status: SUCCESSFUL

Install File: C:\Program Files\Navini Ripwave Monitor\UninstallerData\Uninstall inst.lax
Status: SUCCESSFUL

Install Directory: C:\Program Files\Navini Ripwave Monitor\UninstallerData\resource\
Status: SUCCESSFUL
Additional Notes: NOTE - Directory already existed

Install File: C:\Program Files\Navini Ripwave Monitor\UninstallerData\resource\iawin32.dll
Status: SUCCESSFUL

Install File: C:\Program Files\Navini Ripwave Monitor\UninstallerData\resource\remove.exe
Status: SUCCESSFUL

Make Registry Entry: Key:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\Ripwave Monitor, Value Name:
DisplayName, Value Data: Ripwave Monitor
Status: SUCCESSFUL

Make Registry Entry: Key:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\Ripwave Monitor, Value Name:
UninstallString, Value Data: "C:\Program Files\Navini Ripwave Monitor\UninstallerData\Uninstall inst.exe"
Status: SUCCESSFUL

Install Uninstaller: Ripwave Monitor (Install All Uninstaller Components)
Status: SUCCESSFUL

Install File: C:\Program Files\Navini Ripwave Monitor\instpro5.exe
Status: SUCCESSFUL

Install File: C:\Program Files\Navini Ripwave Monitor\NAVMON.exe
Status: SUCCESSFUL

Install File: C:\Program Files\Navini Ripwave Monitor\navpro5.inf
Status: SUCCESSFUL

Install File: C:\Program Files\Navini Ripwave Monitor\NAVPRO5.sys
Status: SUCCESSFUL

Registry Entries: Create the InstallDir Key
Status: SUCCESSFUL

Set Environment Variable: PATH = C:\Program Files\Navini Ripwave Monitor
Status: SUCCESSFUL

Install File: C:\Program Files\Navini Ripwave Monitor\reboot.exe
Status: SUCCESSFUL

Install Directory: C:\Documents and Settings\All Users\Start Menu\Programs\
Status: SUCCESSFUL
Additional Notes: NOTE - Directory already existed

Install Directory: C:\Documents and Settings\All Users\Start Menu\Programs\Navini Ripwave Monitor\
Status: SUCCESSFUL
Additional Notes: NOTE - Directory already existed

Create Shortcut: C:\Documents and Settings\All Users\Start Menu\Programs\Navini Ripwave Monitor\Ripwave
Monitor.lnk
Status: SUCCESSFUL

Create Shortcut: C:\Documents and Settings\All Users\Start Menu\Programs\Navini Ripwave Monitor\Uninstall
Ripwave Monitor.lnk
Status: SUCCESSFUL

Install Directory: C:\WINNT\system32\DRIVERS\
Status: SUCCESSFUL
Additional Notes: NOTE - Directory already existed

Install File: C:\WINNT\system32\DRIVERS\NAVPRO5.sys
Status: SUCCESSFUL

Install Directory: C:\WINNT\
Status: SUCCESSFUL
Additional Notes: NOTE - Directory already existed

Install File: C:\WINNT\killmon.exe
Status: SUCCESSFUL

Execute Target File: reboot.exe
Status: SUCCESSFUL

Results of Correct Navini Diagnostics Installation

Experienced PC users can check the results of the Navini Diagnostics installation by looking at the log file that is created during the installation process. The log file is named "Ripwave_Diagnostics_InstallLog.log." It is located under **c:\Program Files\Navini Diagnostics**.

Install Begin: Tue Jul 20 12:15:22 CDT 2004
Install End: Tue Jul 20 12:15:30 CDT 2004

Created with Zero G's InstallAnywhere 4.5.3 Enterprise Build 1394

Summary

Installation: Successful with warnings.

2 SUCCESSES
1 WARNINGS

0 NONFATAL ERRORS

0 FATAL ERRORS

Action Notes:

None.

Install Log Detail:

Check Disk Space: C:\Program Files\NavDiag

Status: SUCCESSFUL

Additional Notes: NOTE - Required Disk Space: 29,363,315; Free Disk Space: 30,806,179,840

Install Directory: C:\Program Files\NavDiag\

Status: SUCCESSFUL

Get Registry Entry: Key: HKEY_LOCAL_MACHINE\SOFTWARE\Navini Networks\NavDiag, ValueName: InstallDirectory

Status: WARNING

Additional Notes: WARNING - Win32Exception

Make Registry Entry: Key: HKEY_LOCAL_MACHINE\SOFTWARE\Navini Networks, Value Name: , Value Data:

Status: SUCCESSFUL

Make Registry Entry: Key: HKEY_LOCAL_MACHINE\SOFTWARE\Navini Networks\NavDiag, Value Name: , Value Data:

Status: SUCCESSFUL

Make Registry Entry: Key: HKEY_LOCAL_MACHINE\SOFTWARE\Navini Networks\NavDiag, Value Name:

InstallDirectory, Value Data: C:\Program Files\NavDiag

Status: SUCCESSFUL

Install Directory: C:\Program Files\NavDiag\Uninstall\

Status: SUCCESSFUL

Install Uninstaller: Navini Diagnostics (Install All Uninstaller Components)

Status: SUCCESSFUL

Install Directory: C:\Program Files\NavDiag\jre

Status: SUCCESSFUL

Install File: C:\Program Files\NavDiag\Uninstall\Uninstall NavDiag.exe

Status: SUCCESSFUL

Install File: C:\Program Files\NavDiag\Uninstall\Uninstall NavDiag.lax

Status: SUCCESSFUL

Install Directory: C:\Program Files\NavDiag\Uninstall\resource\

Status: SUCCESSFUL

Install File: C:\Program Files\NavDiag\Uninstall\resource\iawin32.dll

Status: SUCCESSFUL

Install File: C:\Program Files\NavDiag\Uninstall\resource\remove.exe

Status: SUCCESSFUL

Make Registry Entry: Key:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\Navini Diagnostics, Value Name:
DisplayName, Value Data: Navini Diagnostics
Status: SUCCESSFUL

Make Registry Entry: Key:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\Navini Diagnostics, Value Name:
UninstallString, Value Data: "C:\Program Files\NavDiag\Uninstall\Uninstall NavDiag.exe"
Status: SUCCESSFUL

Install Uninstaller: Navini Diagnostics (Install All Uninstaller Components)
Status: SUCCESSFUL

Create LaunchAnywhere: Navini Diagnostics.exe (Install All LaunchAnywhere Java Executable Components)
Status: SUCCESSFUL

Install File: C:\Program Files\NavDiag\Navini Diagnostics.exe
Status: SUCCESSFUL

Install File: C:\Program Files\NavDiag\Navini Diagnostics.lax
Status: SUCCESSFUL

Create LaunchAnywhere: Navini Diagnostics.exe (Install All LaunchAnywhere Java Executable Components)
Status: SUCCESSFUL

Install Directory: C:\Program Files\NavDiag\data\
Status: SUCCESSFUL

Install Directory: C:\Program Files\NavDiag\data\images\
Status: SUCCESSFUL

Install File: C:\Program Files\NavDiag\data\images\billboard.gif
Status: SUCCESSFUL

Install File: C:\Program Files\NavDiag\data\images\splash.gif
Status: SUCCESSFUL

Install File: C:\Program Files\NavDiag\data\images\buttonbar.gif
Status: SUCCESSFUL

Install File: C:\Program Files\NavDiag\data\images\about2.gif
Status: SUCCESSFUL

Install File: C:\Program Files\NavDiag\data\images\about1.gif
Status: SUCCESSFUL

Install File: C:\Program Files\NavDiag\data\images\about.gif
Status: SUCCESSFUL

Install File: C:\Program Files\NavDiag\data\images\uninstall.gif
Status: SUCCESSFUL

Install Directory: C:\Program Files\NavDiag\data\log\

Status: SUCCESSFUL

Install Directory: C:\Program Files\NavDiag\data\lib\
Status: SUCCESSFUL

Install File: C:\Program Files\NavDiag\data\lib\ctl.jar
Status: SUCCESSFUL

Install File: C:\Program Files\NavDiag\data\lib\navDiag.jar
Status: SUCCESSFUL

Install File: C:\Program Files\NavDiag\data\lib\jfreechart-0.9.13.jar
Status: SUCCESSFUL

Install File: C:\Program Files\NavDiag\data\lib\jcommon-0.8.8.jar
Status: SUCCESSFUL

Install File: C:\Program Files\NavDiag\data\lib\log4j.jar
Status: SUCCESSFUL

Install Directory: C:\Program Files\NavDiag\data\doc\
Status: SUCCESSFUL

Install Directory: C:\Program Files\NavDiag\config\
Status: SUCCESSFUL

Install File: C:\Program Files\NavDiag\config\NavDiag.lcf
Status: SUCCESSFUL

Install Directory: C:\Documents and Settings\luis\Start Menu\Programs\NavDiag\
Status: SUCCESSFUL

Create Shortcut: C:\Documents and Settings\luis\Start Menu\Programs\NavDiag\Navini Diagnostics.lnk
Status: SUCCESSFUL

Create Shortcut: C:\Documents and Settings\luis\Start Menu\Programs\NavDiag\Uninstall.lnk
Status: SUCCESSFUL

Install Directory: C:\Documents and Settings\luis\Desktop\
Status: SUCCESSFUL
Additional Notes: NOTE - Directory already existed

Create Shortcut: C:\Documents and Settings\luis\Desktop\Navini Diagnostics.lnk
Status: SUCCESSFUL

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