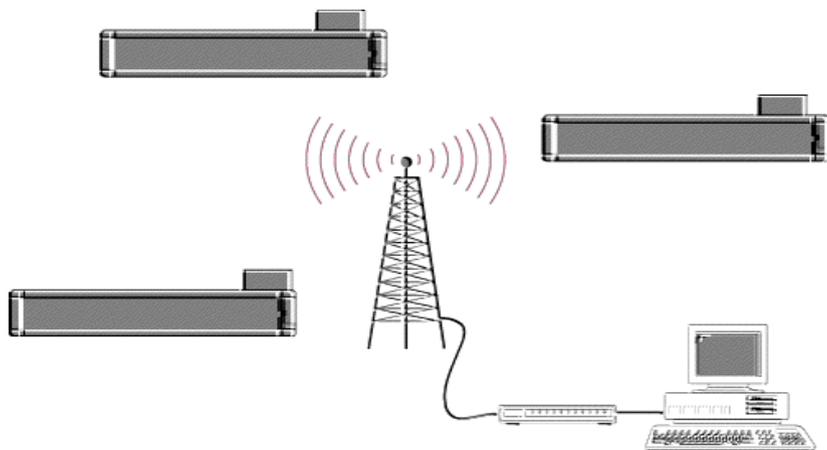


Version 1.2

PagerNET *plus* User Manual



*for use with an
ALPHA 215, Big Dot®, 4000 Series, 7000 Series, or 300 Series
Electronic Message Center
equipped with a Wireless Data Receiver
in a
WAWN (Wide Area Wireless Network)*

ADAPTIVE

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Form No. 9708-8089
10/17/97

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Contents

Purchasing a Data Receiver	1
Step 1 — Sign up with a paging service	1
Step 2 — Order a Data Receiver	2
Step 3 — Make sure your sign has EZ95 firmware	3
Installing PagerNET <i>plus</i> software	3
System requirements	3
Using DOS to install PagerNET <i>plus</i>	3
Using Windows 3.1 to install PagerNET <i>plus</i>	4
Connecting your signs with a wireless network	8
Overview	8
Creating a WAWN (Wide Area Wireless Network)	8
First-time setup	9
Setting up your modem	9
Advanced setup options	10
How to send your first message	11
Create the message	11
Create a Location Card	14
Transmit the message	18
Advanced message editing	21
Using Modes	21
Using Characters	25
Creating Location Cards (Advanced)	29
Transmitting Messages (Advanced)	35
Appendix A: Software quick reference	40
Appendix B: What Modes are available on signs	48
Appendix C: What Characters, Speeds, Colors, and Options are available on signs	49
Appendix D: How text is displayed on signs	52

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Purchasing a Data Receiver

PagerNET *plus* software is intended for use with signs that are part of a Wide Area Wireless Network (WAWN). (See “Connecting your signs with a wireless network” on page 8.)

To do this, a Data Receiver must be connected to a sign. Messages you create with the PagerNET *plus* are transmitted to your paging service who then sends them to a Data Receiver:

See the **ALPHA™ On-Site Wireless Data Receiver Installation Manual** (part number 9708-8080) for complete information on how to connect a Data Receiver to ALPHA 215, Big Dot®, 4000 Series, 7000 Series, and 300 Series signs.

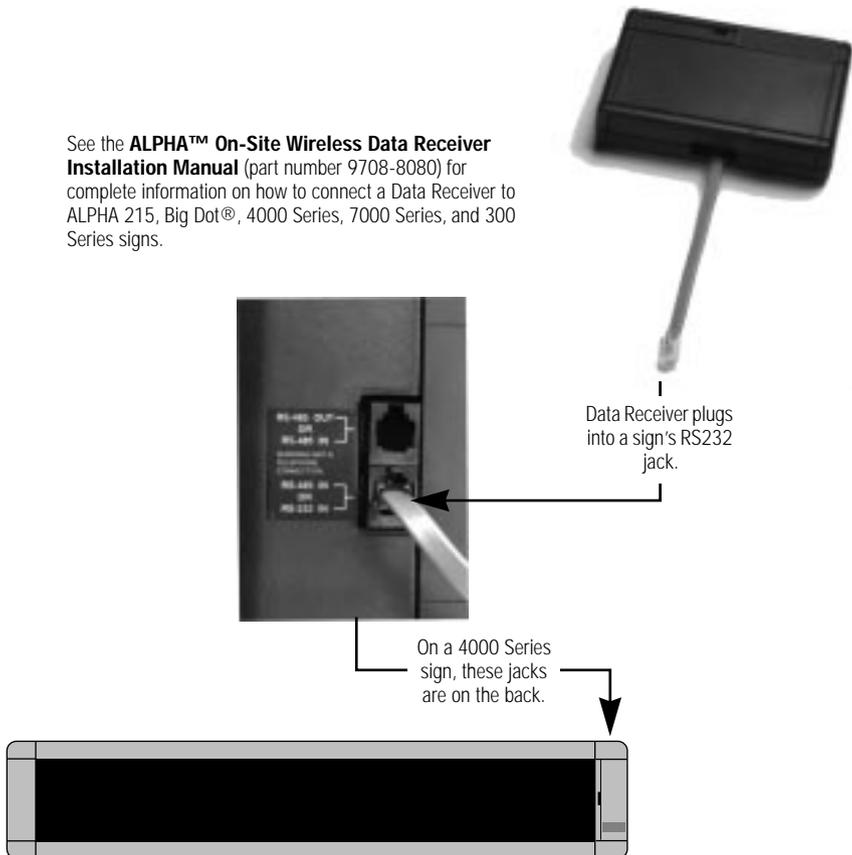


Figure 1: How to connect a Data Receiver to a sign.

Step 1 — Sign up with a paging service

Buy a pager and paging service from a provider like SkyTel, PAGENET, etc.

Step 2 — Order a Data Receiver

The pager from your service provider will have a frequency, CAPCODE, and POCSAG baud rate which you'll need when ordering a Data Receiver for a sign:

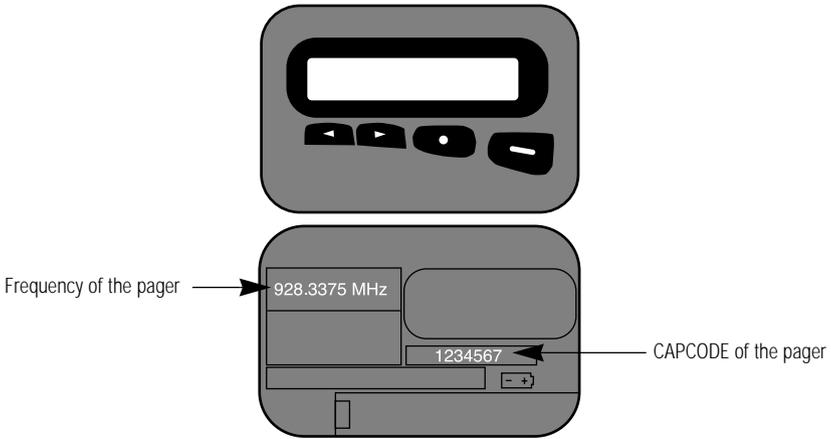


Figure 2: A typical pager (front and back).

Step 3 — Make sure your sign has EZ95 firmware

Your sign has a computer chip or EPROM inside which controls its operation. This chip contains software called firmware which is updated from time to time. The latest version of this firmware is called *EZ95*.

If your sign does not have *EZ95* firmware, then you must order an *EZ95* upgrade for the PagerNET *plus* software to work.

To see if your sign has *EZ95* firmware . . .

1. Restart your sign by either unplugging it and then plugging it in again, or pointing a Remote Control at your sign and then holding down **SHIFT** and pressing **PROGRAM** twice.
2. Next, the phrase *EZ95* should appear on your sign when it starts up:



Figure 3: Startup message on a 4200C sign.

Installing PagerNET *plus* software

System requirements

To use PagerNET *plus* software, you'll need the following:

- Personal computer running MS DOS 2.1 or higher
- 3.5-inch diskette drive
- hard drive with at least 400k of free space
- 640K RAM (memory)
- Black and white or color monitor
- Microsoft-compatible mouse (optional)
- RS232 serial port (PC card)

Using DOS to install PagerNET *plus*

1. Make a backup copy of your PagerNET *plus* diskette.
2. Insert the original PagerNET *plus* diskette into drive A.
3. Type the following DOS commands (shown in bold):

What you type (in bold)	What it means
C:\> mkdir pagernet	Create a directory on your hard drive called <i>pagernet</i> .
C:\> cd pagernet	Change to the <i>pagernet</i> directory.
C:\PAGERNET> copy a:\	Copy all the files on the PagerNET <i>plus</i> diskette to the <i>pagernet</i> directory.
C:\PAGERNET> dir	Displays a list of all the files in the <i>pagernet</i> directory which should look something like this: <pre> . <DIR> 06-25-96 10:30a .. <DIR> 06-25-96 10:30a 00000000 CRD 52 10-17-95 11:46a SIGNS DAT 572 07-17-93 8:11a SYS\$ERR DTA 3118 11-04-92 8:18a SYS\$HELP DTA 3722 11-04-92 8:18a SYS\$MESSG DTA 12468 11-04-92 8:19a ALPHANET EXE 82819 10-17-95 4:19p NETPLUS EXE 161059 10-17-95 5:15p ALPHAHLP HLP 21021 02-14-95 3:07p NETHLP HLP 19238 10-17-95 2:13p LASTCARD OVL 12 10-17-95 3:10p SYSTEM OVL 153 10-17-95 3:10p 00000000 SND 5 10-17-95 11:48a READ_ME TXT 1329 10-17-95 5:18p </pre>
C:\PAGERNET> netplus	Starts the PagerNET <i>plus</i> software.

4. This completes the DOS software installation.

Using Windows 3.1 to install PagerNET plus

1. Make a backup copy of your PagerNET plus diskette.
2. Insert the original PagerNET plus diskette into drive A.
3. Start Microsoft Windows.
4. Open the *File Manager*:



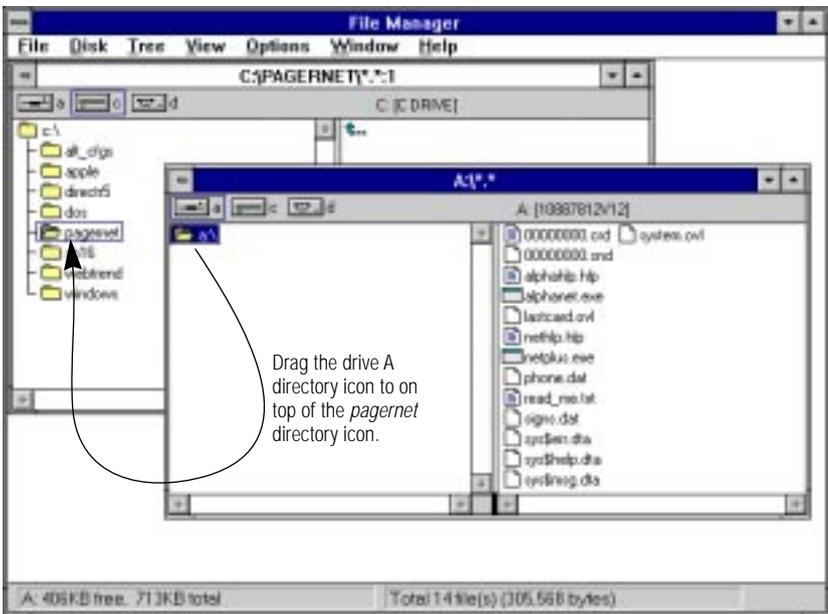
5. From the *File Manager*, select *File* and then *Create Directory*:



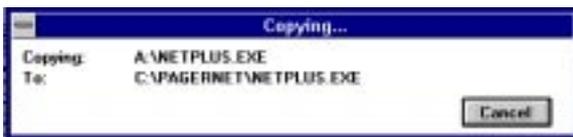
6. Type a directory name (like *pagernet*):



7. From the *File Manager*, select *Window* and then *New Window*. Then click on the drive *a* icon. Next, copy the contents of drive *A* to the *pagernet* directory on drive *C*. To do this, drag the folder in the drive *A* window to on top of the *pagernet* folder.



8. Messages like this will appear as the files are copied:



- 9. After the files have been copied, close the *File Manager*. Then select *New* from the *Program Manager*:



- 10. Select *Program Group*:



- 11. When the following window appears, type *PagerNET plus*:

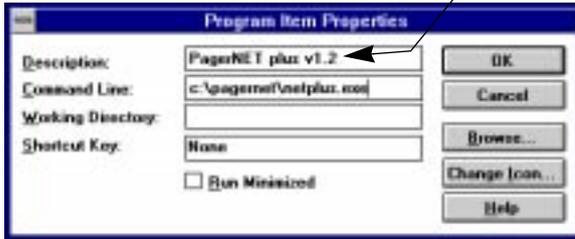


- 12. Select *New* again, but this time select *Program Item*:



13. When the following window appears, enter the information as shown below:

Use whatever software version is printed on the PagerNET *plus* diskette.



14. You have just created a program icon for the PagerNET *plus* software. Whenever you want to start PagerNET *plus*, just double click on this icon:



15. This completes the Windows software installation.

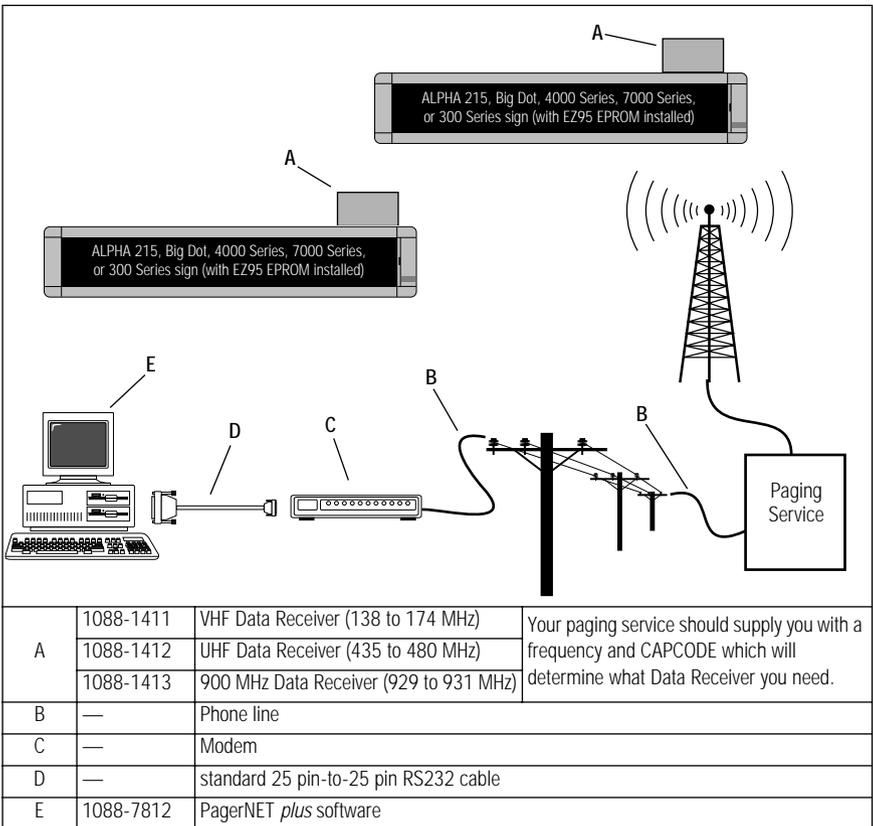
Connecting your signs with a wireless network

Overview

There are several ways to connect (or “network”) your PC to signs. For example, messages can be sent to one or more signs which are wired directly to your PC, or which are connected via a modem. However, PagerNET *plus* software is specifically designed for use with a WAWN (Wide Area Wireless Network).

Creating a WAWN (Wide Area Wireless Network)

This is the type of network intended for the PagerNET *plus* software:



First-time setup

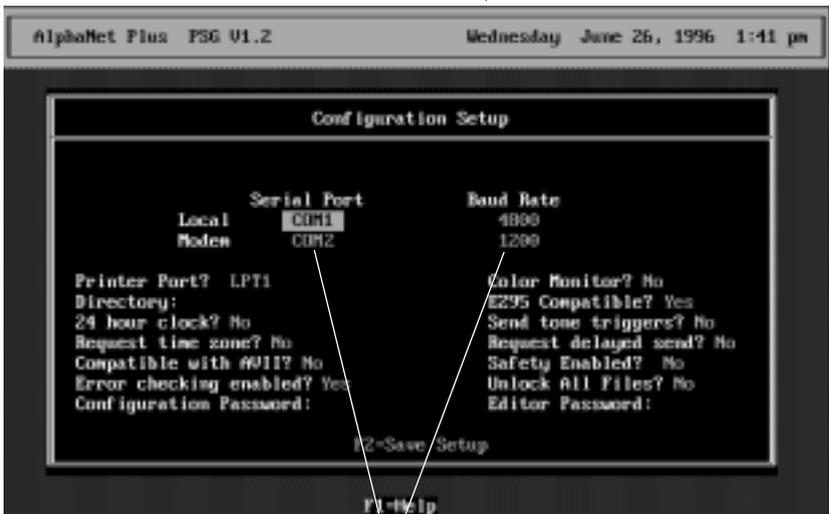
Setting up your modem

Before you can start creating and sending messages, you need to set up your software to operate with the particular modem you're using:

1. With your computer off, attach your modem to one of the computer's serial ports (usually labelled COM1, COM2, etc.)
2. Turn your computer on and start the PagerNET plus software.
3. From the *Main Menu*, select *Configuration Setup*. Then select the appropriate serial port and baud rate for your modem:



Use the **Up Arrow** and **Down Arrow** keys to highlight *Configuration Setup*. Then press **Enter**.



Use the arrow keys to highlight an item. Press **Enter** to select an item to change.

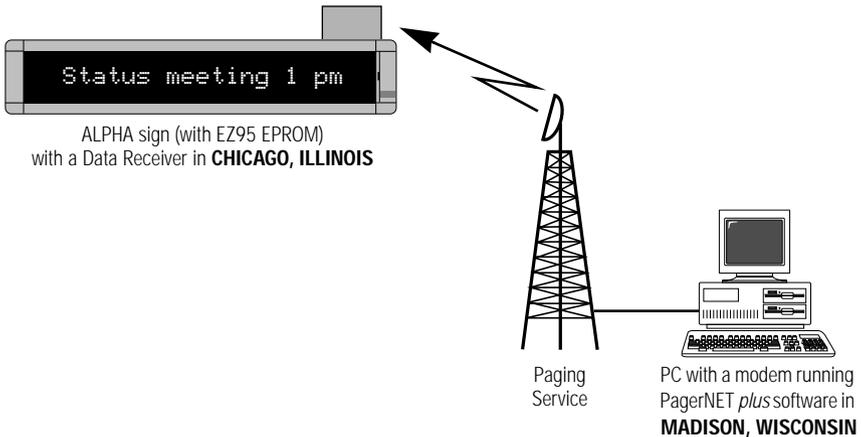
4. Press **F2** to save your changes. Then press **Esc** to exit *Configuration Setup*.

Advanced setup options

In addition to setting up your modem, there are other options you may want to set up, such as a printer port. To do this, see “Configuration Setup” on page 46.

How to send your first message

To show the basics of message editing and transmission, we'll use an example of sending a single message to a single remote sign:



In this example, we'll assume the following information:

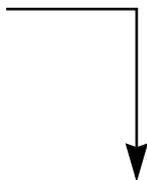
The location of the remote sign:	Chicago, Illinois
Telephone number of your pager (and your Data Receiver):	555-1234
Telephone number of your paging service:	1-800-222-5678
The message you want to send:	"Status meeting 1 pm"

You would follow these steps:

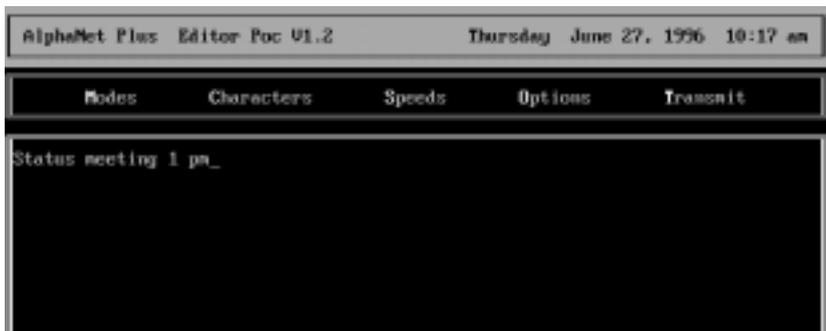
Create the message

1. Complete the "First-time setup" on page 9 if you haven't already done so.

2. Type in your message using the *Message Editor* in PagerNET plus. Select *Message Editor* from the *Main Menu*:



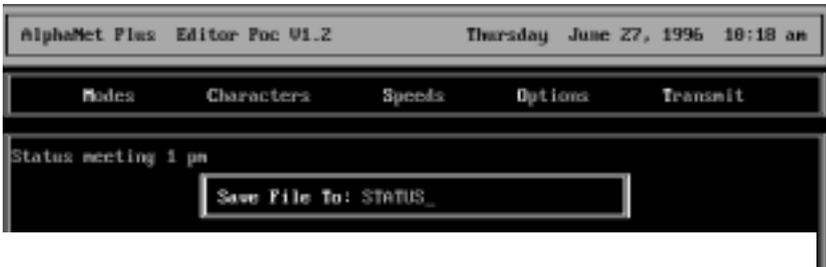
3. After the *Message Editor* window appears, select *Create New Message*. Then type *Status meeting 1 pm*:



4. Save your message by pressing **Esc** and selecting *Yes* when the *Save Changes* prompt appears:



5. When the following prompt appears, name your message file *STATUS*:



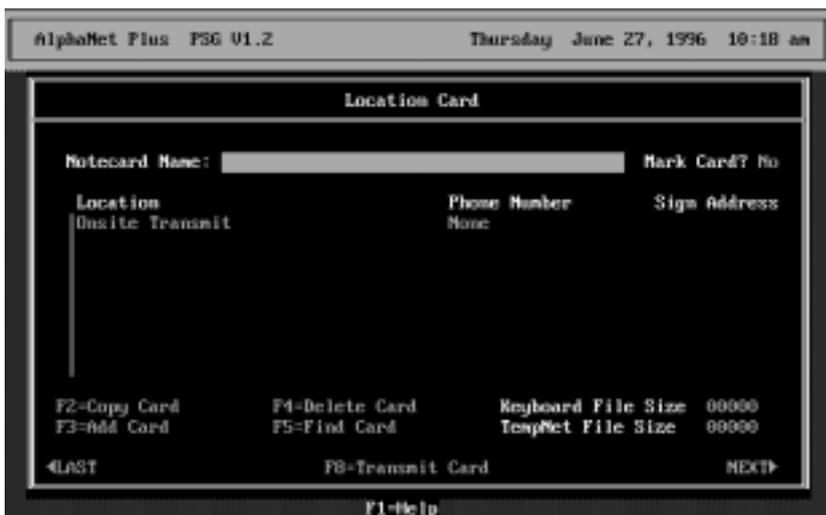
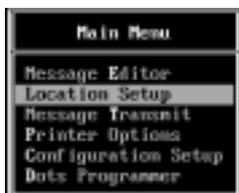
6. After the message is saved, press **Esc** to return to the *Main Menu*:



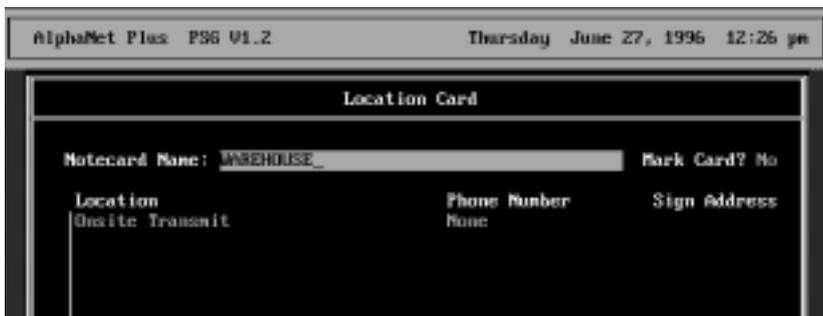
Create a Location Card

Now you need to tell PagerNET *plus* where to send your message.

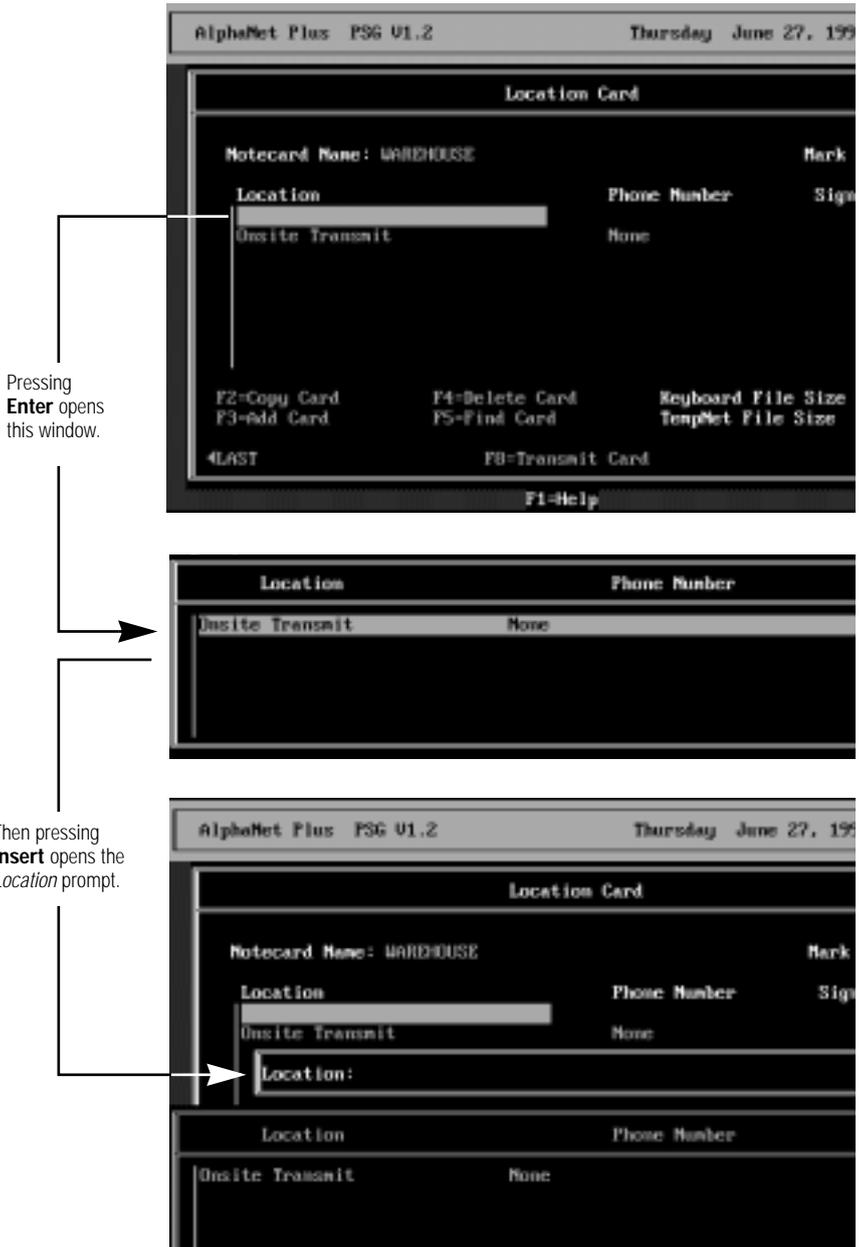
7. Select *Location Setup* from the *Main Menu*:



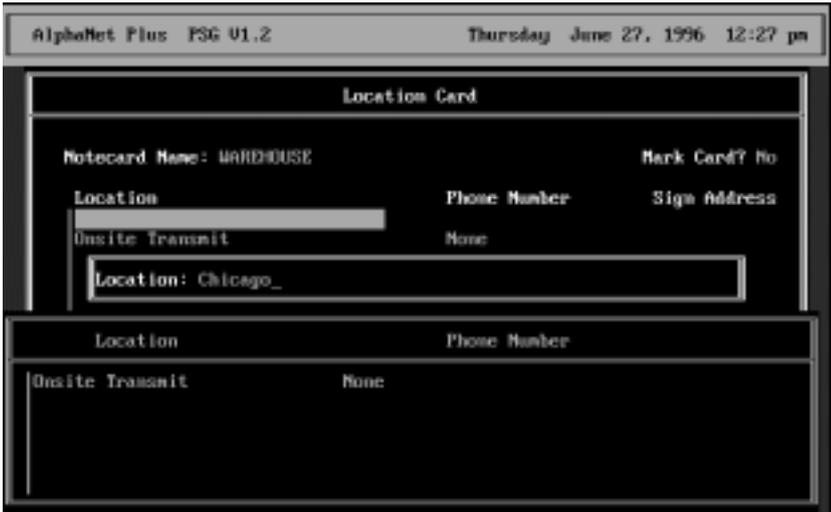
8. After the *Notecard Name* prompt, type a name—like *WAREHOUSE*—that will be used to identify your remote sign:



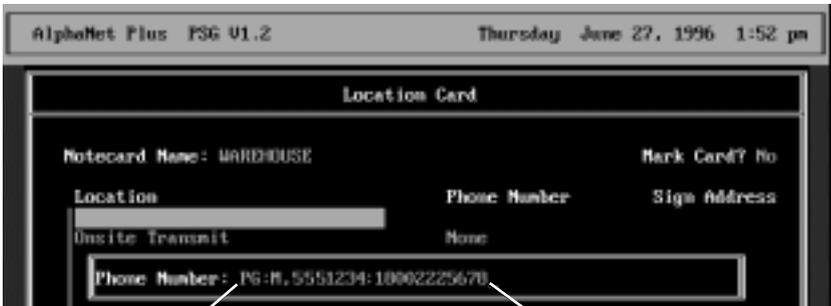
- Next, press **Insert** to create a blank line under *Location*. Then press **Enter** and **Insert** again:



10. Enter the remote sign's location—*Chicago*:



11. After typing the remote sign's location and pressing **Enter**, type the phone number of the paging service in the special format shown below:



PG:M,5551234:18002225678



Always include this at the start.

Phone number of your pager (and your Data Receiver)

Phone number of your paging service

Use a colon here.

12. After typing the phone number of the paging service and pressing **Enter**, this is what the *Location Card* should look like now:

AlphaNet Plus FSG V1.2		Thursday June 27, 1996 1:52 pm	
Location Card			
Notecard Name: WAREHOUSE		Mark Card? No	
Location	Phone Number	Sign Address	
Onsite Transmit	None		
Location		Phone Number	
Chicago	PG:R,5551234-18002225670		
Onsite Transmit	None		

13. Next, with the Chicago location highlighted, press **Enter** to complete the remote sign's *Location Card*:

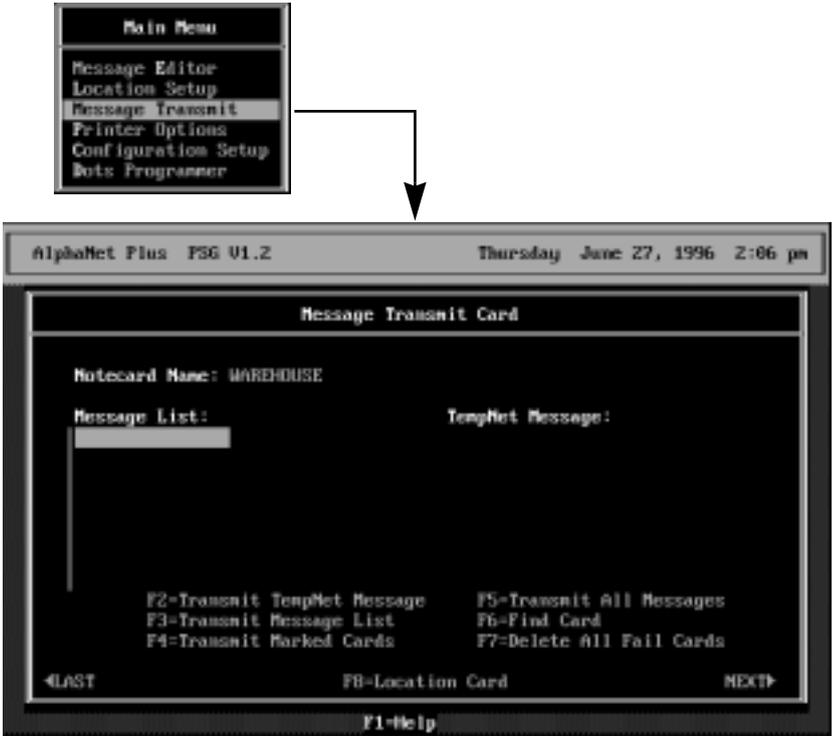
AlphaNet Plus FSG V1.2		Thursday June 27, 1996 1:53 pm	
Location Card			
Notecard Name: WAREHOUSE		Mark Card? No	
Location	Phone Number	Sign Address	
Chicago	PG:R,5551234...		
Onsite Transmit	None		
F2-Copy Card	F4-Delete Card	Keyboard File Size 0000	
F3-Add Card	F5-Find Card	TeqNet File Size 0000	
◀LAST	F8-Transmit Card	NEXT▶	
F1-Help			

14. Finally, press **Esc** to return to the *Main Menu*.

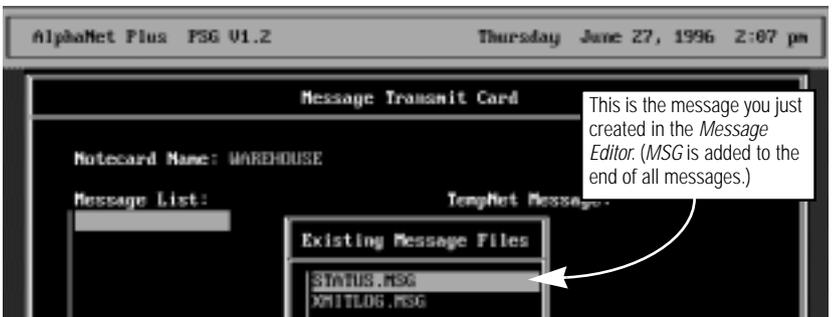
Transmit the message

Once the message has been created and the location of the sign entered, the message can be transmitted:

15. Select *Message Transmit* from the *Main Menu*:



16. Press **Enter** to select a message. Then highlight the message you want to transmit—*STATUS.MSG*—and press **Enter**:

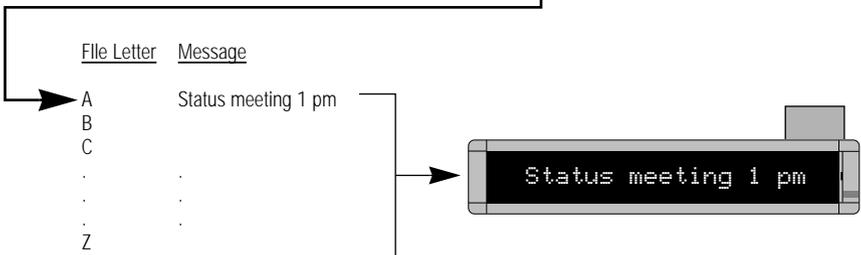


17. Next, type the letter *A* after the *Enter File Letter* prompt and press **Enter**:

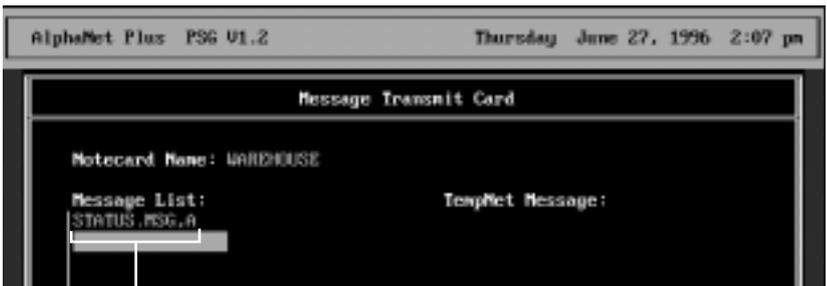


A *file letter* is a letter from A to Z that is “attached” to a message sent to a sign.

The letter represents one of 26 possible locations where a message can be stored in a sign's memory.



After pressing **Enter**, the following should appear on the *Message Transmit Card*.



The message name (*STATUS.MSG*) and its location (*A*) in a sign's memory.

- 18. Other messages could be added to the *Message List*, but in this example, we'll only send one message. To send the messages, press **F3**.

NOTE: If you selected **Yes** to *Request time zone* in *Configuration Setup* (see "Advanced setup options" on page 10), then the following prompt would appear. A time zone adjustment number from 14 to -14 could be entered:



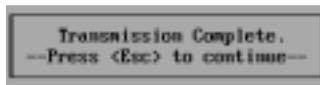
Also, if you selected **Yes** to *Request delayed send* in *Configuration Setup*, then the following prompt would appear. A time like *10:30p* could be entered when messages would be transmitted:



The following will appear as messages are transmitted:



The messages will be transmitted to the sign.

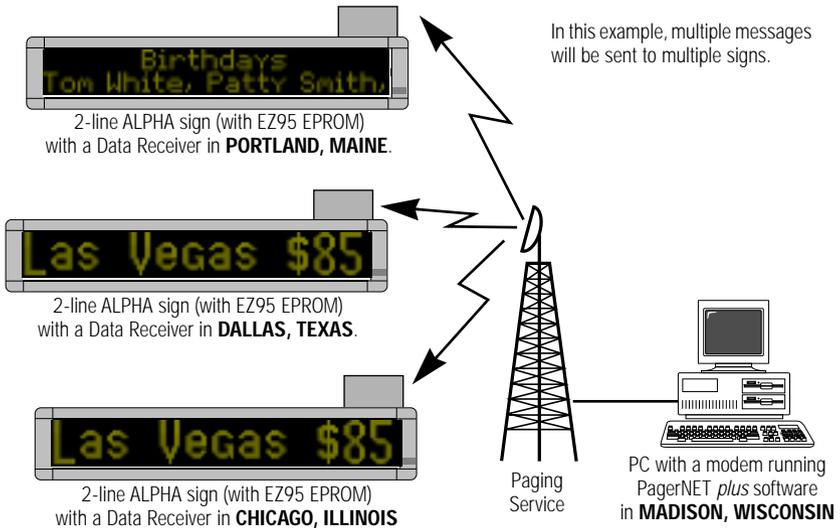


- 19. Finally, press **Esc** to return to the *Main Menu*.

Advanced message editing

Using Modes

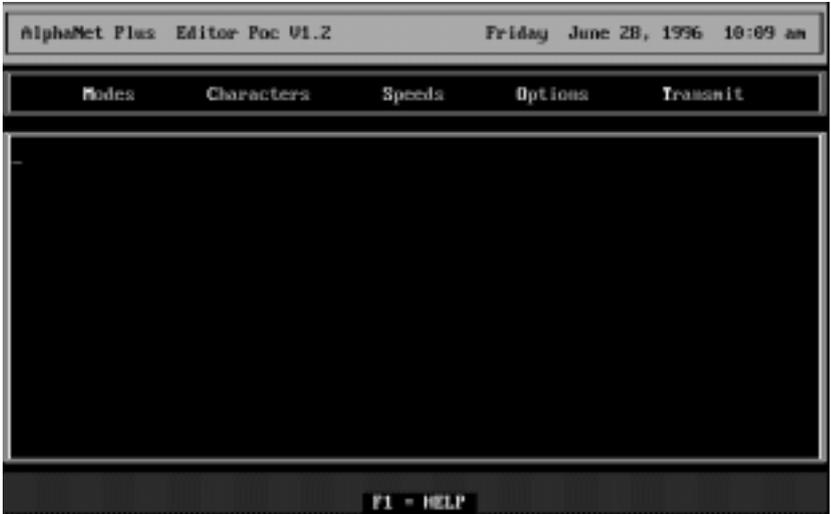
“Modes” are special effects that change the way a message appears on a sign. For example, the *Rotate Mode* moves a message from right to left across a sign. In this example, we’ll create a message that displays employee birthdays using the *Hold* and *Rotate Modes*.



In this example, we’ll assume the following information:

The location of the remote signs:	Chicago, Illinois (a Warehouse)
	Dallas, Texas (a Warehouse)
	Portland, Maine (a Sales Office)
Telephone numbers of your three pagers (and your three Data Receivers)	555-1234 (for Chicago sign)
	333-3333 (for Dallas sign)
	234-5555 (for Portland sign)
Telephone number of your paging service:	1-800-222-5678
The messages you want to send:	"Las Vegas \$85, Chicago \$199, New York \$235 (for Chicago and Dallas)
	"Birthdays Tom White, Patty Smith, Bob Evans" (a 2-line message just for Portland)

1. Complete the “First-time setup” on page 9 if you haven’t already done so.
2. Select *Message Editor* from the *Main Menu*. When the *Message Editor* window appears, select *Create New Message*:



- Next, hold down **Alt** and then press **M** (for *Modes*). Then highlight *Hold*:

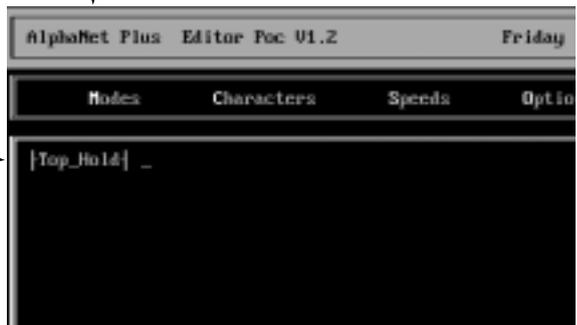


- After highlighting *Hold*, press **Enter**. Then, in order to put the word *Birthdays* on the top line of the 2-line sign, select *Top Line*:

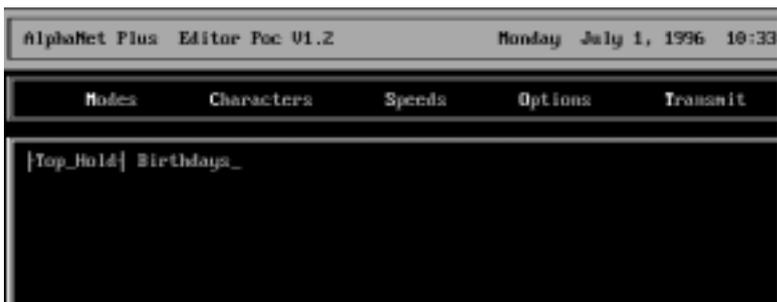


These are "line positions". A line position is where a message appears on a sign. See "Appendix D: How text is displayed on signs" on page 52 for more details.

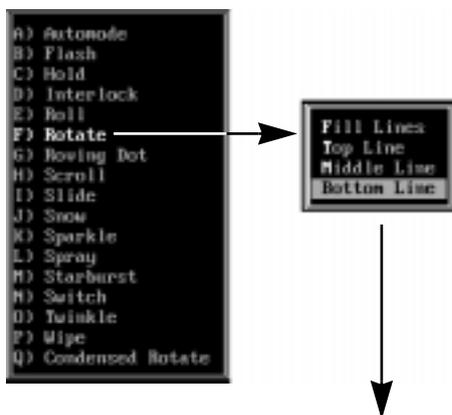
This symbol for the *Hold Mode* will appear.



- After the `/ Top Hold /` symbol, type `Birthdays`:



- Next, hold down **Alt** and then press **M** (for *Modes*). In order to make the people's names (*Tom White*, etc.) move across the bottom line of the sign, select *Rotate* and *Bottom Line*. Then type the three names:



- Press **Esc** and save this message with the name *BIRTHDAY*:



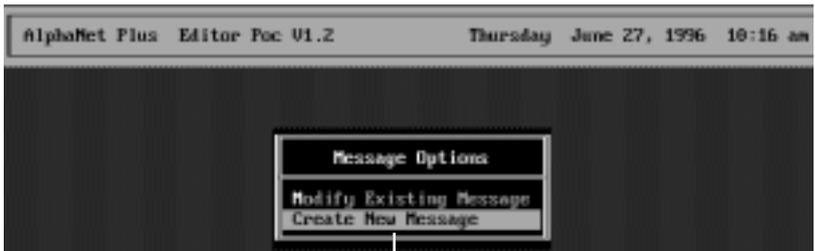
Using Characters

“Characters” are options that change the appearance of text in a message. For example, normal-sized text (called *Seven Row*) is seven rows high, but some signs allow you to display much taller text (called *Full Height*).

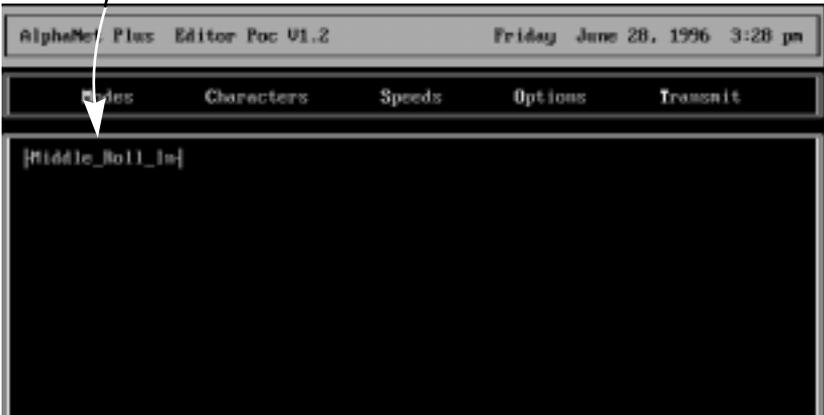
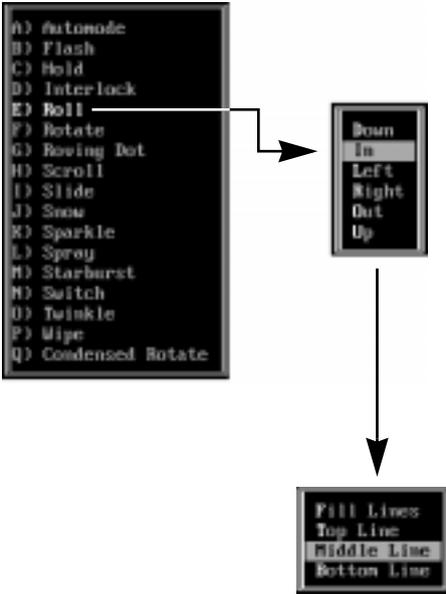
In this example, we’ll create a message that displays airline fares in large text:



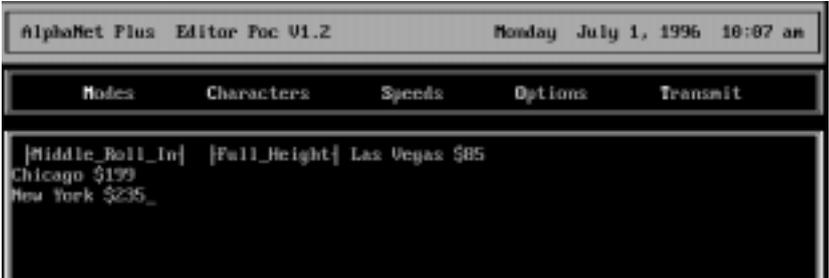
1. Complete the “First-time setup” on page 9 if you haven’t already done so.
2. Select *Message Editor* from the *Main Menu*. When the *Message Editor* window appears, select *Create New Message*:



- Next, hold down **Alt** and then press **M** (for *Modes*). Select *Roll* and then *In*. Finally, select the *Middle Line* position:



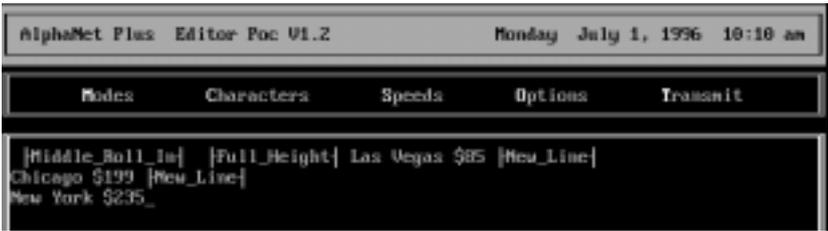
4. Hold down **Alt** and then press **C** (for *Characters*). Select Full Height. Then type *Las Vegas \$85, Chicago \$199, New York \$235*. Press **Enter** after each line:



The text runs together on a sign because *New Lines* (**Alt + Enter**) were not used after each line.

- 5. To format the text so that *Las Vegas \$85* and *Chicago \$199* and *New York \$235* all appear on separate lines, add a *New Line* after each city/amount pair. To do this, position the cursor after *Las Vegas \$85*, hold down **Alt** and then press **Enter**. Repeat this after each city.

NOTE: Just pressing **Enter** after each line will not work.



Adding a *New Line* after each line breaks the message into readable pieces.



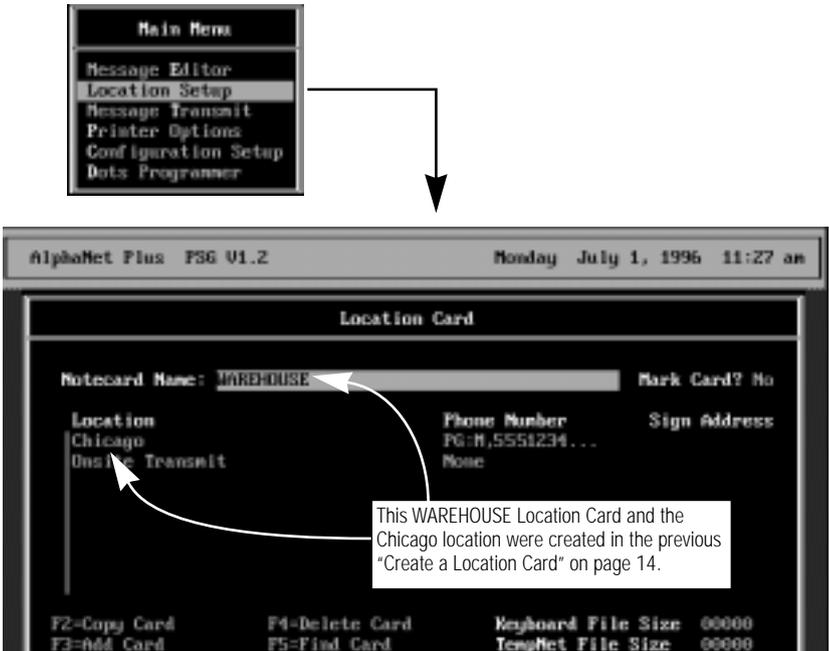
- 6. Next, press **Esc** and save the message to a file called *AIRFARES*:



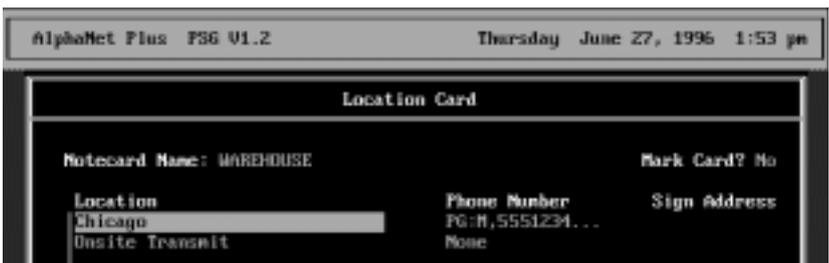
Creating Location Cards (Advanced)

We'll use the situation and information from "Using Modes" on page 21 to demonstrate how to transmit two messages to three remote sites.

1. Select *Location Setup* from the *Main Menu*. The WAREHOUSE card should appear because we created it earlier:



2. We'll add the Dallas location first because it's a warehouse (just like Chicago) and belongs in this WAREHOUSE Location Card. To add the Dallas warehouse, first press the **Down Arrow** to highlight Chicago:



- Next, press **Insert** to create a blank line above *Chicago*. Then press **Enter** and **Insert** again:

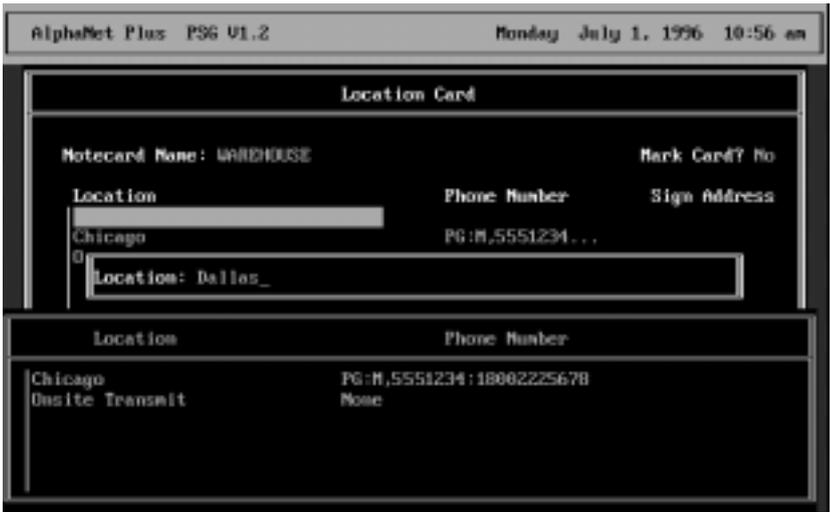
Pressing **Enter** opens this window.

Then pressing **Insert** opens the *Location* prompt.

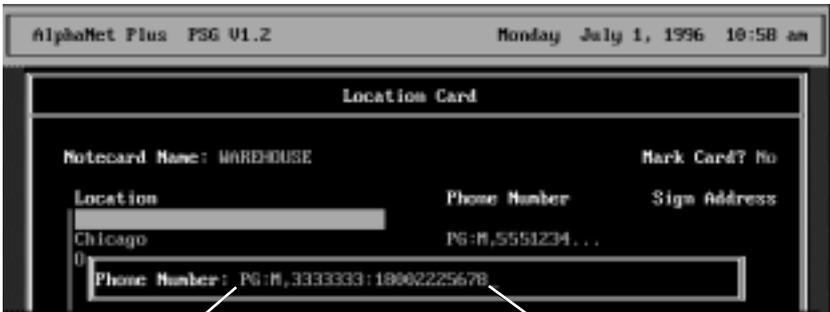
The screenshots show the following data:

Location	Phone Number
Chicago	PG:M,5551234:18002225678
Onsite Transmit	None

4. After *Location*, type *Dallas*, the remote sign's location:



5. After typing *Dallas* and pressing **Enter**, type the phone number of the paging service in the special format shown below:

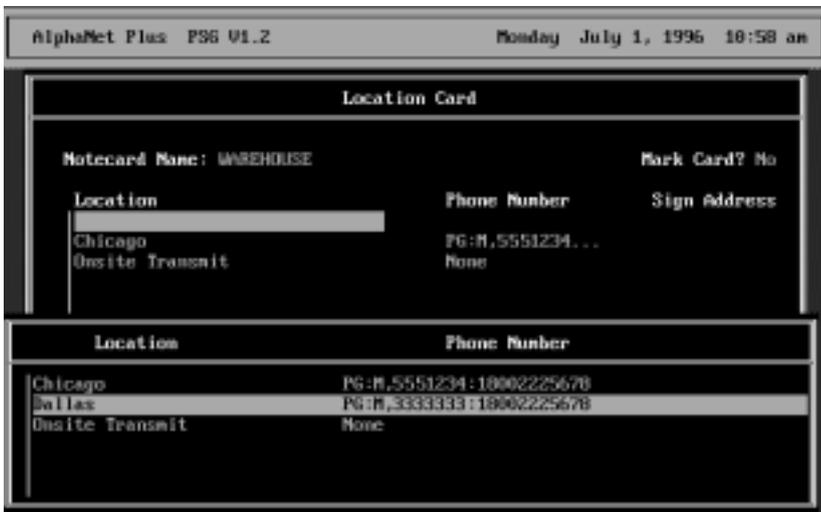


PG:M,3333333:18002225678

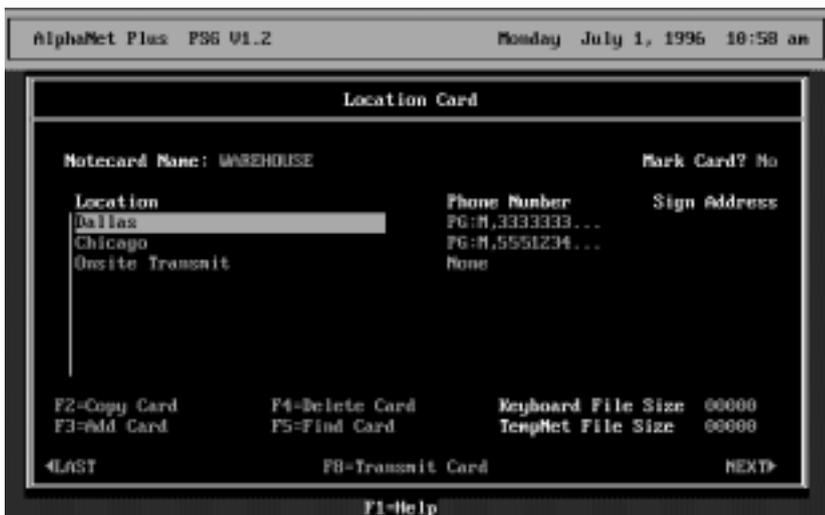


Use a colon here.

- After typing the phone number of the paging service and pressing **Enter**, this is what the *WAREHOUSE Location Card* should look like now:



- With the Dallas location highlighted, press **Enter** to add Dallas to the *WAREHOUSE Location Card*:



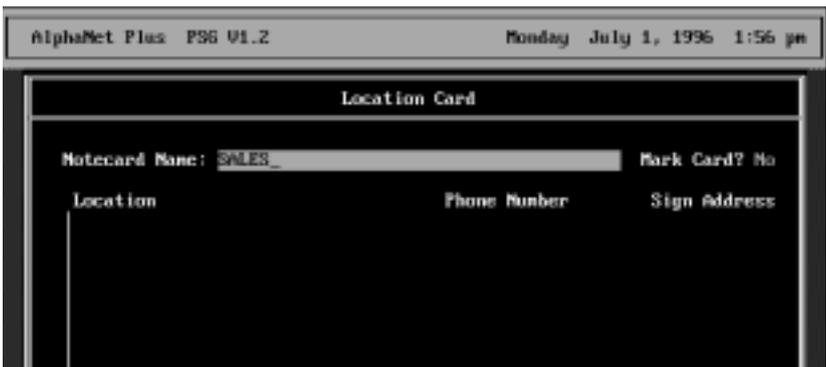
8. Next, we'll need to add the Portland location. However, a new *Location Card* should be created because the Portland sign is in a sales office and not a warehouse. (Think of *Location Cards* as a way of organizing or grouping your signs.)

To create a new *Location Card*, Press **F3**:



To go to the *LAST* or *NEXT* Location Card, hold down **Ctrl** and then press **PageUp** or **PageDown**.

9. Use the **Up Arrow** to highlight *Notecard Name*. Then type **SALES**:



10. Enter the information for the Portland remote site the same way as you did previously for the Dallas site. When you're done, the completed *SALES Location Card* should look like this:

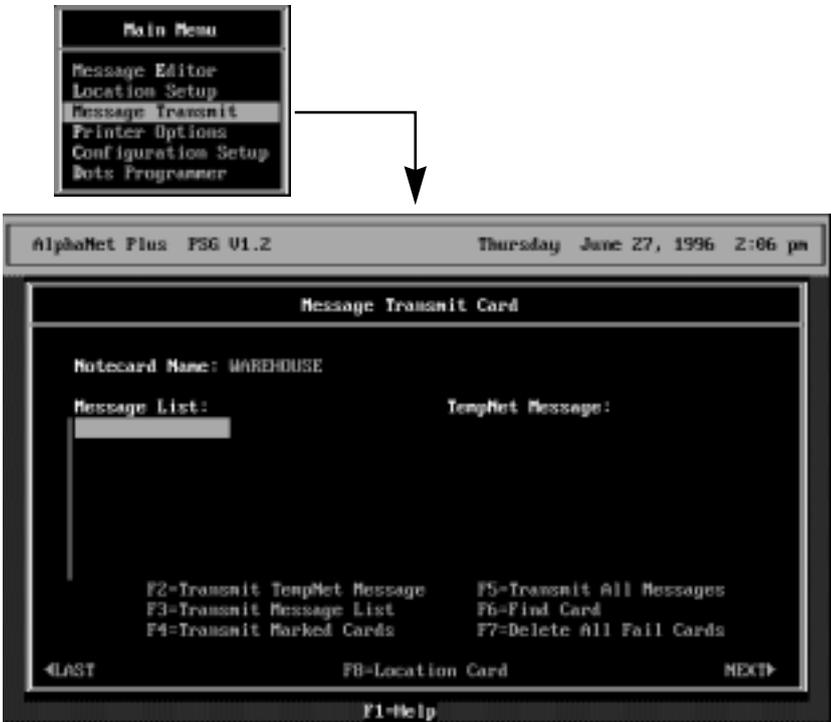


Transmitting Messages (Advanced)

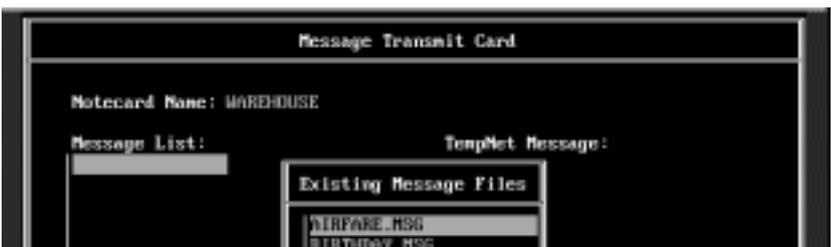
After creating *Location Cards* for the Dallas and Portland remote sites [see “Creating Location Cards (Advanced)” on page 29], the *BIRTHDAY* and *AIRFARE* messages (see “Using Modes” on page 21 and “Using Characters” on page 25) can be transmitted.

To do this, follow these steps:

1. Select *Message Transmit* from the *Main Menu*:



2. Press **Enter** to select a message. Highlight a message you want to transmit, like *AIRFARE.MSG*. Then press **Enter** again:

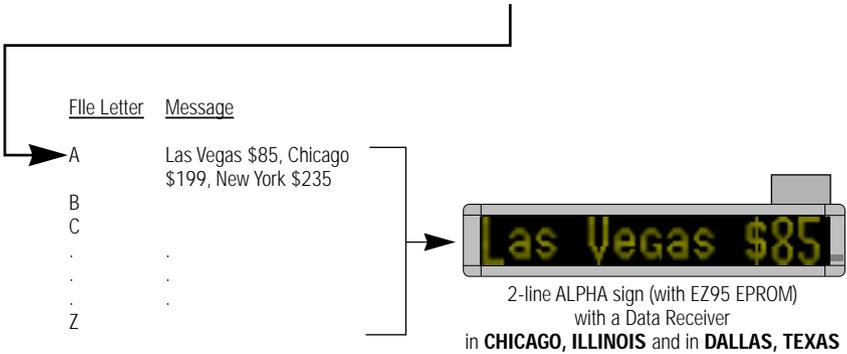


3. Next, type the letter **A** (or any letter from A to Z) after the *Enter File Letter* prompt and press **Enter**:



A *file letter* is a letter from A to Z that is "attached" to a message sent to a sign.

The letter represents one of 26 possible locations where a message can be stored in a sign's memory.



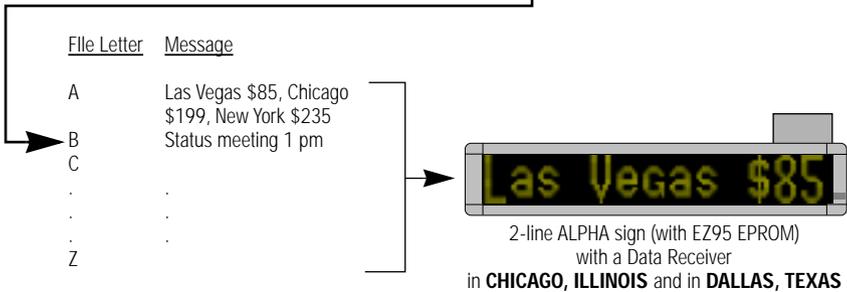
After pressing **Enter**, the following should appear on the *Message Transmit Card*:



The message name (*AIRFARE.MSG*) and its location (*A*) in a sign's memory.

- Imagine you also wanted to send a message called *STATUS* to the WAREHOUSE remote sites (Chicago and Dallas).

To do this, move the highlighted line under *AIRFARE.MSG,A* and press **Enter**. Then select the message *STATUS* from the message list, but this time type *B* after *Enter File Letter*:



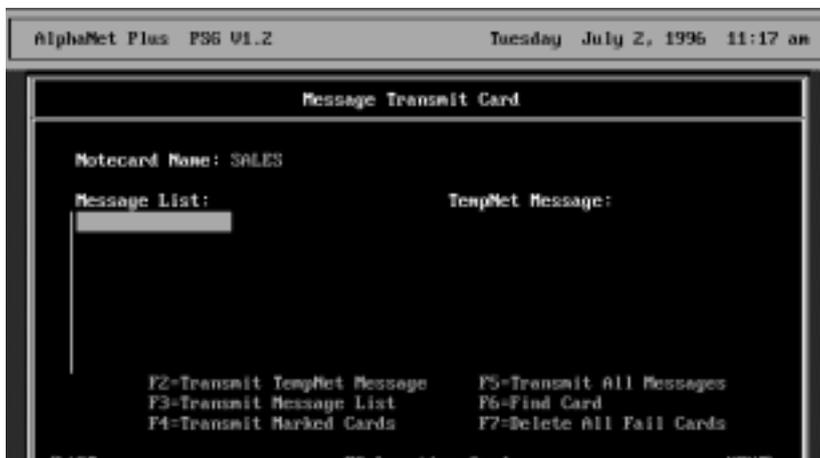
After pressing **Enter**, the following should appear on the *Message Transmit Card*:



- Before transmitting the messages, check to make sure they are going to the right locations. To do this, press **F8** to look at the *WAREHOUSE Location Card*:



- Since the locations are correct, press **F8** again to return to the *Message Transmit Card*. Then press **F3** to transmit the two messages in the *WAREHOUSE Message List*.
- To transmit the *BIRTHDAY* message to the *SALES* site in Portland, hold down **Ctrl** and press either **PageUp** or **PageDown** to go to the *SALES Location Card*:



8. Add the *BIRTHDAY* message to the *SALES* Message List. Then press **F3** to transmit the message:



If you have a lot of messages to send, a fast method of transmitting would be to "mark" the *Location Cards* you'll be using to transmit.

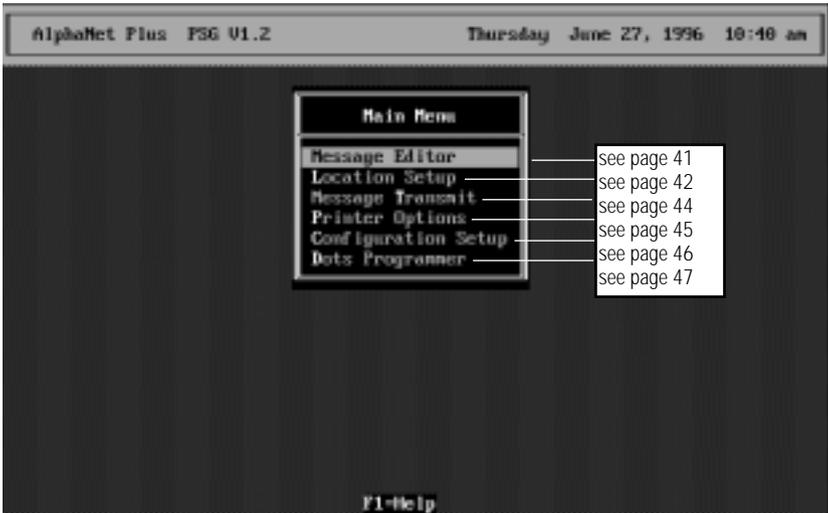


Appendixes

Appendix A: Software quick reference

Main Menu

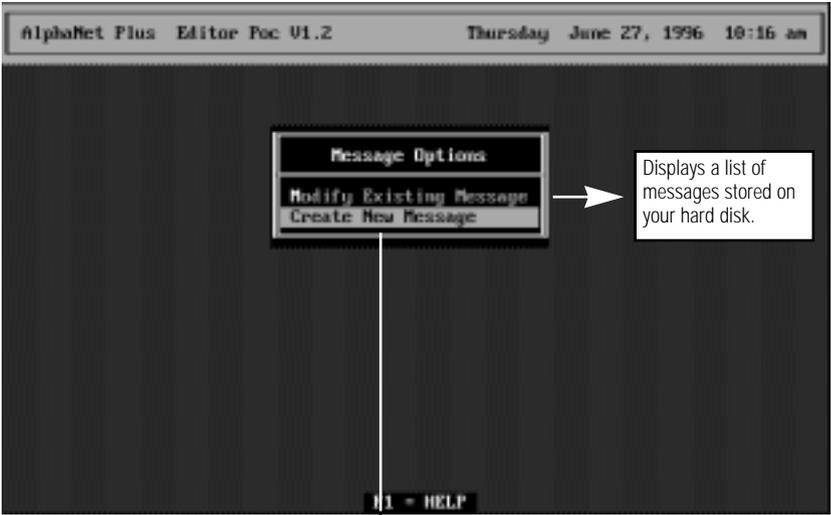
This is the screen that first appears when PagerNET plus is started:



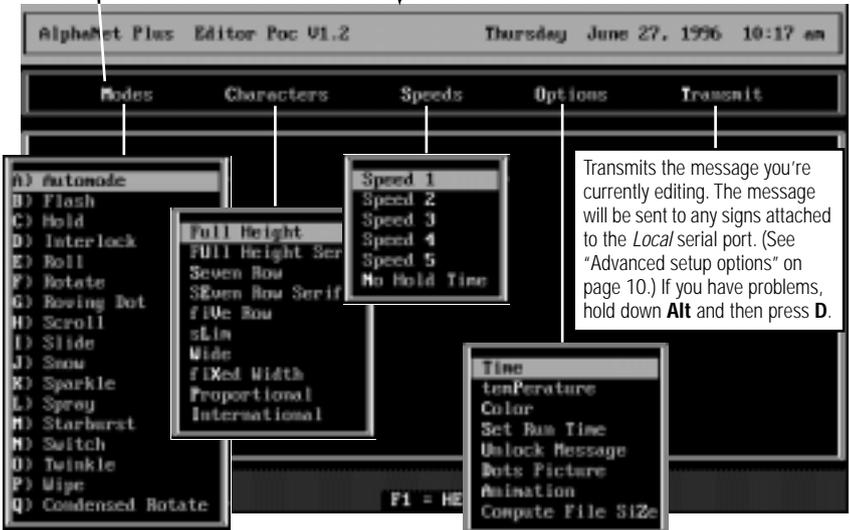
- Use *Configuration Setup* to do a first-time set up of your PC.
- Use *Location Setup* to specify where messages should be sent.
- Use *Message Editor* to create messages and to set when they will be sent.

Message Editor

The *Message Editor* is used to create text messages that will be sent to one or more signs:



Hold down **Alt** and press the highlighted character (like "M" for *Modes*) to access a menu.



Modes are described in "Appendix B: What Modes are available on signs" on page 48.

Characters, *Speeds*, and *Options* are described in "Appendix C: What Characters, Speeds, Colors, and Options are available on signs" on page 49

Location Setup

This is used to specify one or more places *where* messages can be sent:



Item	Name	Description
A	Notecard Name	A name used to group <i>where</i> messages are sent into convenient categories. This name appears on a <i>Location Card</i> (shown above) and a <i>Transmit Card</i> .
	Mark Card?	If you select Yes , then you have the ability to transmit messages to all of the locations specified in all the "marked" <i>Location Cards</i> .
B	Location	A place where messages are sent.
	Phone Number	The phone number of your paging service in the following format: <div style="text-align: center;"> PG : M , 5551234 : 18002225678 </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> Always include this at the start. </div> <div style="text-align: center;"> Telephone number of the Data Receiver connected to a sign </div> <div style="text-align: center;"> Use a colon here </div> <div style="text-align: center;"> Phone number of the paging service </div> </div>
	Sign Address	A sign has a feature which allows a unique number or "address" (00 to 99) to be assigned to it. This address permits you to send messages to an individual sign on a network. All signs leave the factory with a default address of 00. To change a sign's address, see <i>Network Configurations</i> (part number 9708-8046).
C	F2 - Copy Card	Allows you to duplicate any card.
	F3 - Add Card	Adds a blank card.
	F4 - Delete Card	Deletes the currently displayed card.

C	F5 - Find Card	Displays a menu of all the cards and allows you to select one.
	F8 - Transmit Card	Moves to the <i>Transmit Card</i> for the currently displayed <i>Location Card</i> .
	Keyboard File Size	Should not be used.
	TempNet File Size	Should not be used.
	LAST	Allows you to move from one <i>Location Card</i> to the other by holding Ctrl and then pressing either PageUp or PageDown .
	NEXT	

Message Transmit

This is used to select *what* messages will be send and *where* they will be sent:

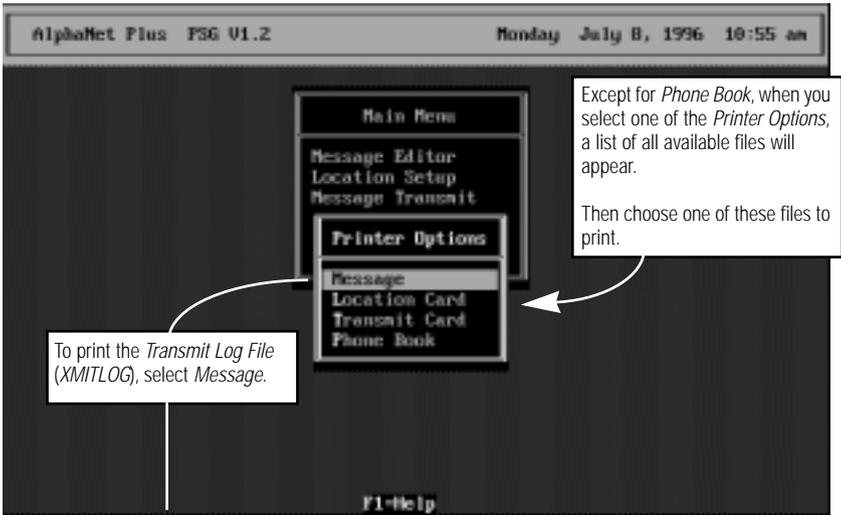


Item	Name	Description
A	Notecard Name	A name used to group <u>where</u> messages are sent into convenient categories. This name appears on a <i>Location Card</i> and a <i>Transmit Card</i> (shown above).
B	Message List	The message files selected for transmission. The maximum number of files per card is 200.
	TempNet Message	Should not be used.
C	F2 - Transmit TempNet Message	Should not be used.
	F3 - Transmit Message List	Sends all the message files in the <i>Message List</i> .
	F4 - Transmit Marked Cards	Sends the message files in all the <i>Location Cards</i> that have been "marked". (See "Location Setup" on page 42.)
	F5 - Transmit All Messages	Should not be used.
	F6 - Find Card	Displays a menu of all the cards and allows you to select one.
	F7 - Delete All Fail Cards	Deletes any cards created by transmissions that failed. <i>Fail Cards</i> are only available if <i>Error Checking</i> is selected in <i>Configuration Setup</i> . (See "Configuration Setup" on page 46.)
	F8 - Location Card	Moves to the <i>Location Card</i> for the currently displayed <i>Transmit Card</i> .
	LAST	Allows you to move from one <i>Transmit Card</i> to the other by holding Ctrl and then pressing either PageUp or PageDown .
NEXT		

Printer Options

This allows you to print a message, a *Location Card*, a *Transmit Card*, or the *Phone Book* (the telephone numbers and locations of all the places where messages can be sent):

NOTE: Before printing, make sure that a printer port has been selected in *Configuration Setup*.



```
***** AlphaNet Plus Transmission Log *****
Date: 7/2/1996-12:06:10
Transmission from AlphaNet Plus Editor
File Name: Untitled
-----
Date: 7/2/1996-10:54:45
Card Name: SALES
Locations:
    Description:  Portland
    Phone Number: PG:M,7777777:18002225678
    Addresses:
Messages:
    AIRFARE.MSG,A
```

Configuration Setup

This is usually used to specify first-time setup options:



Item	Name	Description
A	Local	Set up this port for signs that are directly wired to your PC via a converter box. (See <i>Network Configurations</i> , part number 9708-8046, for more detailed information on sign networks.)
	Modem	See "First-time setup" on page 9.
B	Printer Port?	If you have a printer connected to your computer, select the port to which it's attached.
	Directory:	The DOS directory where your messages are kept. To change this to another directory, type the complete DOS path. For example, <i>c:\pagernet\newdir</i> .
	24 hour clock?	Selecting Yes displays time in 24-hour format (00:00 to 24:00). Selecting No displays time in 12-hour format (00:00 to 12:00).
	Request time zone?	Selecting Yes displays the <i>Enter time zone adjust</i> prompt when messages are sent using <i>Message Transmit</i> from the <i>Main Menu</i> . This option allows you to adjust for a time zone difference between the location where messages are sent and the location of the sign receiving the messages. For example, if you are sending messages from a PC located in the Eastern Time Zone to a sign located in the Central Time Zone, you would enter a -7 after the <i>Enter time zone adjust</i> prompt. (The range is between 14 and -14.) This is because the Central Time Zone is one hour <i>behind</i> the Eastern Time Zone.
	Compatible with AVII?	Select No because all the signs you're sending to should have EZ95 EPROMs installed.
	Error checking enabled?	Select Yes if you want the PagerNET plus software to check if each transmission was received correctly.

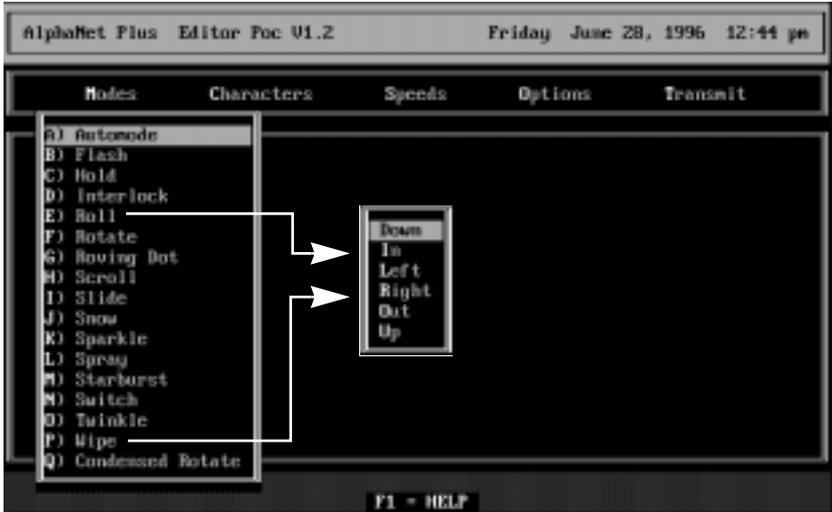
B	Configuration Password:	If you enter a password here, you will be required to enter it before accessing <i>Configuration Setup</i> . A password can have up to eight characters.
	Color Monitor?	Select Yes if you're using a color monitor. Select No if you're using a black and white monitor.
	EZ95 Compatible?	Select Yes because all the signs you're sending to should have EZ95 EPROMs installed.
	Send tone triggers?	Select Yes if you want a sign to beep each time it receives a new message.
	Request delayed send?	Selecting Yes displays the <i>Enter time to send</i> prompt when messages are sent using <i>Message Transmit</i> from the <i>Main Menu</i> . This is useful for sending messages when you're not at your computer. For example, if you need to send messages at 11:30 pm at night, then you would enter <i>11:30pm</i> after the <i>Enter time to send</i> prompt.
	Safety Enabled?	Select No .
	Unlock All Files?	Selecting Yes permits anyone using an Infrared Keyboard to change messages that you send to a sign. Selecting No only permits messages to be changed by using the PagerNET <i>plus</i> software.
	Editor Password:	If you enter a password here, you will be required to enter it before accessing the <i>Message Editor</i> . A password can have up to eight characters.

Dots Programmer

This option allows you to create bitmapped images that can be sent and then displayed on a sign. However, since these images can not be sent to signs using paging receivers, the *Dots Programmer* should not be used.

Appendix B: What Modes are available on signs

“Modes” are special effects used by the PagerNET plus software to change the way text appears on a sign. Modes are added to a message using the Message Editor.



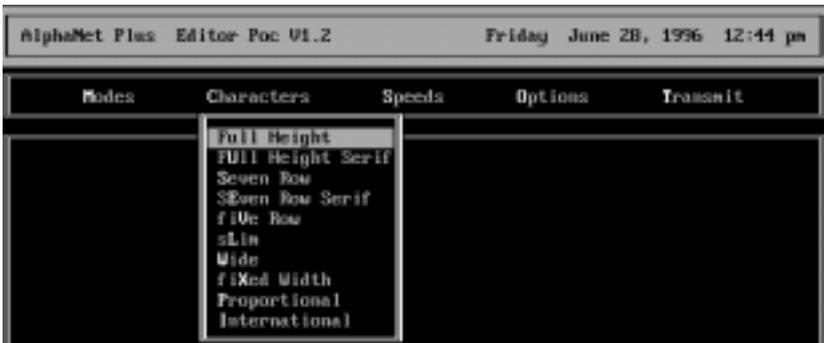
Modes available on signs

Sign	Modes																
	Autocode	Flash	Hold	Interlock	Roll	Rotate	Roving Dot	Scroll	Slide	Snow	Sparkle	Spray	Starburst	Switch	Twinkle	Wipe	Cond. Rotate
200 Series	●	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●
300 Series	●	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●
4000 Series	●	●	●	●	●	●		●	●	●	●	●	●	●	●	●	
7000 Series	●	●	●	●	●	●		●	●	●	●	●	●	●	●	●	
Big Dot	●	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●
AlphaVision (Full Matrix)	●	●	●	●	●	●		●			●				●	●	
AlphaVision (Char. Matrix)	●	●	●			●										●	
790i	●	●	●	●	●	●		●	●	●	●	●	●	●	●	●	

Appendix C: What Characters, Speeds, Colors, and Options are available on signs

PagerNET plus software allows you to change the character shapes and colors of text used in sign messages. The *Characters* and *Color* options are available in the *Message Editor*. Also, the speed of a moving message can be set using the *Speeds* option. Finally, several choices in *Options* are available on signs:

Characters and Speeds



Characters and Speeds available on signs

Sign	Characters									Speeds
	Full Height	Full Height Serif	Seven Row	Seven Row Serif	Five Row	Slim	Wide	Fixed Width	Proportional	
200 Series			●	●	●	●	●	●	●	●
300 Series			●	●	●	●	●	●	●	●
4000 Series	●	●	●	●	●	●	●	●	●	●
7000 Series	●	●	●	●	●	●	●	●	●	●
Big Dot			●	●	●	●	●	●	●	●
AlphaVision (Full Matrix)	●	●	●	●	●	●	●	●	●	●
AlphaVision (Char. Matrix)			●		●	●				●
790i			●		●	●	●	●	●	●

International characters

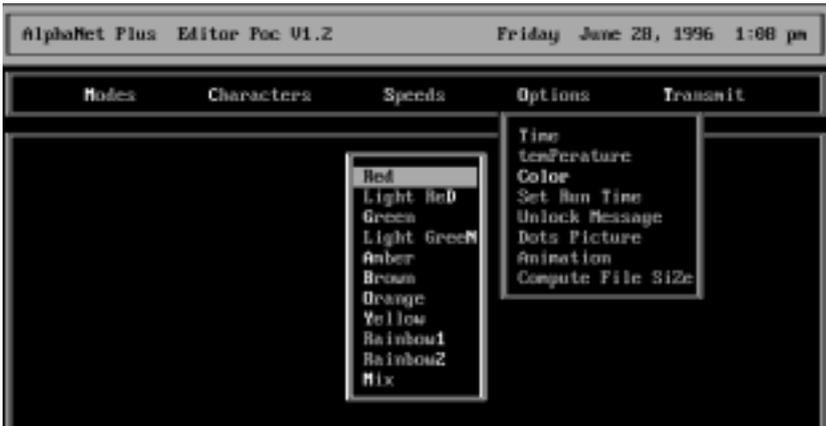
International characters can be used in messages by selecting *International* from the *Characters* menu:

The screenshot shows a menu with the following options: Full Height, Full Height Serif, Seven Row, SEven Row Serif, fIve Row, sLim, Mid, fIX, Pro, and International. The 'International' option is highlighted. An arrow points from this option to a table titled 'Base Characters:'.

Base Characters:										
A	C	E	I	N	O	U	Y	?	!	\$
à	Ç	é	ï	ñ	ó	ü	ÿ	¿	¡	¢
ä	ç	ê	ì	Ñ	ô	û	Ÿ	?	!	£
â	C	è	i	N	ò	Û	y			¥
Ä	c	è	l	n	Ö	ú				f
Å		É	i		ó	U				\$
æ		E			o	u				
Æ		e			O					
á					o					
â										
À										
a										

Color and Options

Text can be colored by selecting *Options* in the *Message Editor*:



Colors and Options available on signs

Sign	Options							
	Time	Temperature	Color (see NOTE)	Set Run Time	Unlock Message	Dots Picture	Animation	Compute File Size
200 Series	●		8	●	●	Though these two options are available, they should not be used with PagerNET <i>plus</i> software because of the nature of paged messages.		This merely computes the size of the current message in bytes.
300 Series	●		8	●	●			
4000 Series	●		3	●	●			
7000 Series	●		3	●	●			
Big Dot	●		8	●	●			
AlphaVision (Full Matrix)	●		3	●	●			
AlphaVision (Char. Matrix)	●		3	●	●			
790i	●	●	3	●	●			

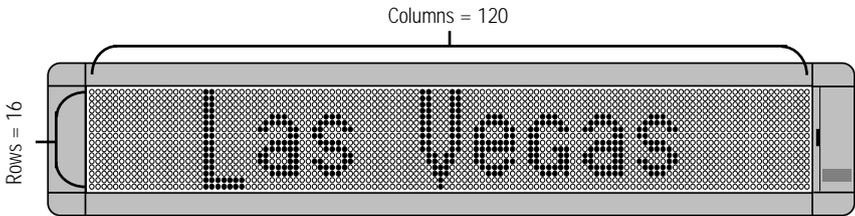
NOTE: Sign names ending in “C”, such as 4120C, have color capabilities. Sign names ending in “R”, such as 4120R, can display in red only.

Appendix D: How text is displayed on signs

Columns and rows make up a sign

Each sign is made up of a display area of columns and rows of LED “pixels” that can be turned on or off and that can display different colors (for color-capable signs).

For example, a 4120C (or 4120R) sign has a total display area of 120 x 16:



The number of columns and rows in signs.

Sign		Display area (col x rows)	Colors	
BETA-BRITE Series	BETA-BRITE	80 x 7	8	
	BETA-BRITE BIG DOT	80 x 7		
	ALPHA Big Dot	80 x 7		
215 Series	215	90 x 7		
	215C	90 x 7		
300 Series	320C	120 x 7		
	330C	180 x 7		
4000 Series	4120R	120 x 16		3
	4120C	120 x 16		
	4160R	160 x 16		
	4160C	160 x 16		
	4200R	200 x 16		
	4200C	200 x 16		
	4240R	240 x 16		
	4240C	240 x 16		
7000 Series	7120C	120 x 24		
	7160C	160 x 24		
	7200C	200 x 24		
Outdoor displays	790i	90 x 7		
ALPHAVISION	Display areas from 128 x 32 to 256 x 128.			
NOTE: Sign names ending in "C", such as 4120C, have color capabilities. Sign names ending in "R", such as 4120R, can display in red only.				

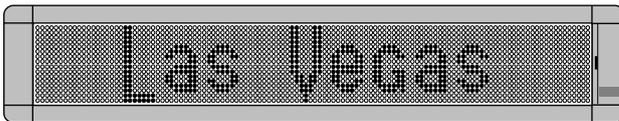
Text comes in three basic sizes

The *Characters* menu in the *Message Editor* displays a list of the available text sizes, such as *Full Height* and *Five Row*, and options such as *Wide* and *Fixed Width*:

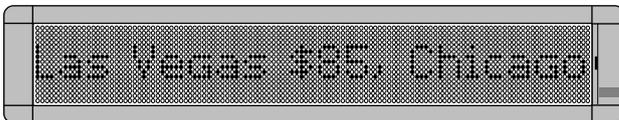


Using the three basic text sizes, the message *Las Vegas \$85, Chicago \$199* would appear like this on a two-line 4120C (or 4120R):

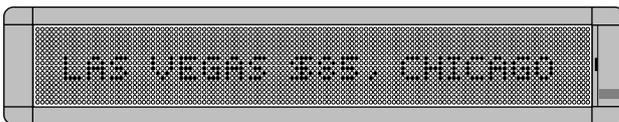
- *Full Height* (which includes *Full Height Serif*)



- *Seven Row* (which includes *Seven Row Serif*), and



- *Five Row*



Understanding message line positions (Top, Middle, Bottom, Fill)

Line positions let you display a message in the *Top*, *Middle*, *Bottom*, and *Fill* areas on all ALPHA two-line signs:

	How the message appears in the Message Editor:	How the message appears on a 2-line sign:
Top:	Top_Automode Las Vegas \$85, Chicago \$199, New York \$235	
Middle:	Middle_Automode Las Vegas \$85, Chicago \$199, New York \$235	
Bottom:	Bottom_Automode Las Vegas \$85, Chicago \$199, New York \$235	
Fill:	Fill_Automode Las Vegas \$85, Chicago \$199, New York \$235	

When you use the **Fill** position, the sign will try to fill both lines with the message.