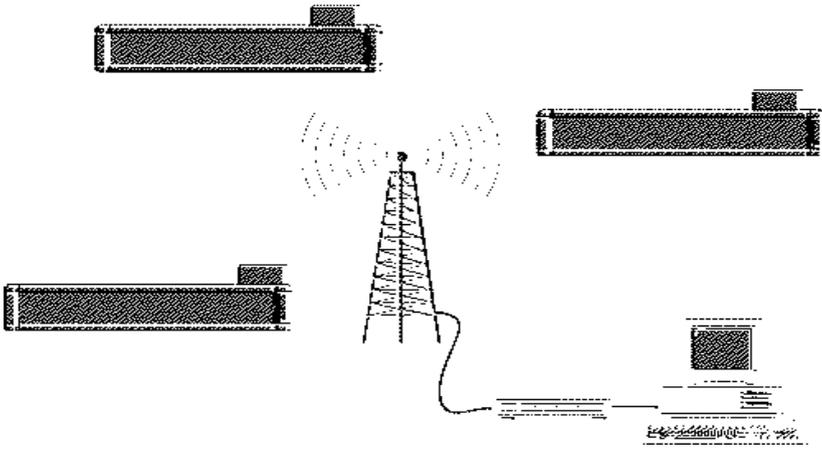


ALPHAAlert

Installation/Operation Manual



*for use with an
ALPHA 215 or ALPHA 4120 Electronic Message Center
equipped with an AlphaAlert Data Receiver
in a
WAWN (Wide Area Wireless Network)*

In this manual, "Small AlphaAlert" = ALPHA 215
and "Large AlphaAlert" = ALPHA 4120



NOTE: Due to continuing product innovation, specifications in this document are subject to change without notice.

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Contents

Introduction	1
Description	3
Installation.....	9
Sending messages.....	17
Advanced message formatting.....	23
Receiver programming	31

Introduction

INTRODUCTION

An AlphaLert™ sign has the capability of receiving and displaying alphanumeric messages sent over a paging network. An AlphaLert sign may be placed in strategic locations throughout a paging network to provide maximum flexibility for displaying messages. One or more AlphaLert signs can receive the same message simultaneously.

Up to 26 different sequential messages can be sent to an AlphaLert sign. Messages can include general information, alerts, and services such as news, sports, stocks, and special events. AlphaLert signs are available in small or large versions. The small sign is available with a single or multi-color display. The large sign is available only with a multi-color display. An identical Data Receiver is used by both versions.

PURPOSE OF MANUAL

This document provides technical descriptions and instructions for unpacking, installing, sending messages, and programming an AlphaLert sign. A brief description of each remaining chapter follows:

- ❑ **Chapter 2** - Description of small and large versions of AlphaLert signs including overall specifications for AlphaLert signs and the Data Receiver.
- ❑ **Chapter 3** - Unpacking, installation, and initial powerup.
- ❑ **Chapter 4** - Instructions for sending messages to an AlphaLert sign over a paging network.
- ❑ **Chapter 5** - Instructions for sending messages with advanced formatting to an AlphaLert sign.
- ❑ **Chapter 6** - Instructions for reprogramming the Data Receiver.

Description

INTRODUCTION

This chapter describes AlphaLert sign components, characteristics, and specifications.

PRODUCT DESCRIPTION

AlphaLert signs are available in small or large versions consisting of either 630 LEDs and 1920 LEDs respectively.

Once an AlphaLert sign is operational, an alphanumeric message may be sent to it through a paging system using a personal computer with off-the-shelf software such as Motorola's ADVISE®, Motorola's Alphamate®, or another alpha entry device. The message is transmitted as an alphanumeric page by the paging system on a paging address. Every AlphaLert sign programmed to that particular paging address receives the same message. The received message is decoded, then displayed on the LED display.

Model numbers and specifications for both the small and large versions of the sign are listed in Table 2-1. Specifications for the Data Receiver are provided in Table 2-2.

Small AlphaLert sign

The single-color or multi-color versions of the small AlphaLert sign consist of the following components as shown in Figure 2-1.

- Dot Matrix, LED Display
- Data Receiver and Cable
- Desk-Top Power Supply
- Mounting Brackets and Hardware (not shown)
- Installation/Operation Manual

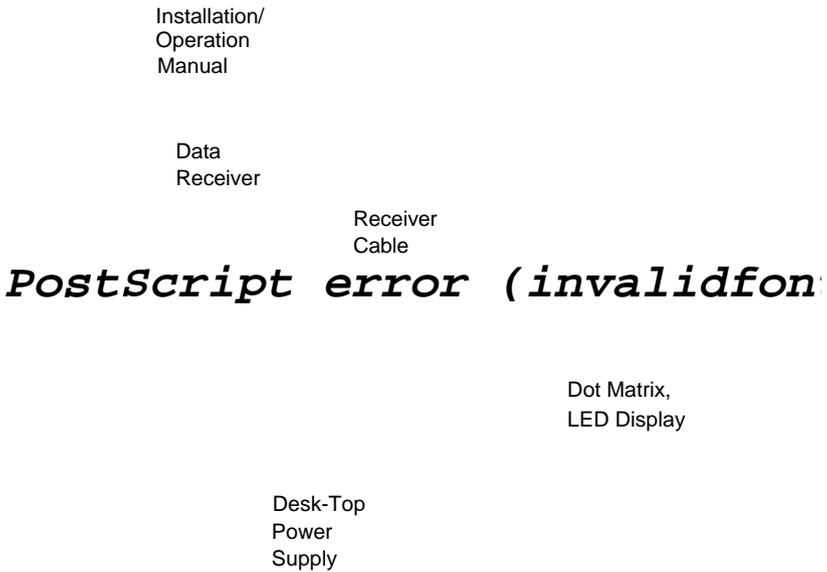


Figure 2-1. Small AlphaLert Sign Components

Large AlphaLert sign

The large AlphaLert sign consists of the following components as shown in Figure 2-2.

- ❑ Dot Matrix, LED Display
- ❑ Data Receiver and Cable
- ❑ Integral (built-in) Power Supply
- ❑ Mounting Brackets and Hardware (not shown)
- ❑ Installation/Operation Manual

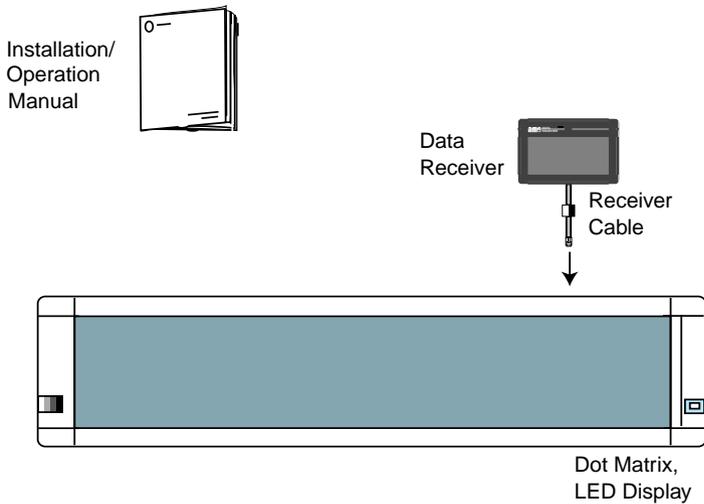


Figure 2-2. Large AlphaLert Sign Components

SPECIFICATIONS

The specifications for the AlphaLert signs and the Data Receiver are listed in Tables 2-1 and 2-2.

Table 2-1. AlphaLert Sign Specifications

Model	Small AlphaLert Sign	Large AlphaLert Sign
	<p>Single Color:</p> <p>VHF UHF 900 MHZ</p> <p>Multi-Color:</p> <p>VHF UHF 900 MHZ</p>	<p>Multi-Color:</p> <p>VHF UHF 900 MHZ</p>
Case Dimensions (L x D x H)	28.9" x 3.3" x 4.5" 73.4 x 8.4 x 11.4 cm	40.2" x 5.1" x 7.7" 102.1 x 12.9 x 19.6 cm
Weight	6.25 lbs. (2.84 Kg) Including AlphaLert sign with external power supply	19.55 lbs.(8.9 Kg) Including AlphaLert sign with integral power supply
Mounting	Hardware to accommodate ceiling/wall/counter mounting	Hardware to accommodate ceiling/wall/counter mounting
Display Dimensions	2.1" x 27" 5.3 x 68.6 cm	4.8" x 36" 12.2 x 91.4 cm
Display Array (H x L)	7 x 90 matrix	16 x 120 matrix
Pixel Size (Diameter)	0.2" (0.5 cm)	0.2"(0.5 cm)
Character Size	2.1" (5.3 cm)	2.1" (5.3 cm)
Character Array	5 x 7 matrix	5 x 7 matrix
Characters Displayed	15 minimum (single line)	40 minimum (two lines)
Continued Next Page		

Table 2-1. AlphaLert Sign Specifications (Continued)

Display Memory	3900 characters	23,400 characters
Memory Retention	One month typical	One month typical
Message Capacity	26 different messages at up to 150 characters each can be stored and displayed	26 different messages at up to 900 characters each can be stored and displayed
Power	120 VAC \pm 10% (optional 220 VAC), UL listed power supply	120 VAC \pm 10% (optional 220 VAC), UL component recognized power supply
Power Cord Length	10 ft. (3 m)	10 ft. (3 m)
Operating Temperature	32 to 120° F (0 to 49° C)	32 to 120° F (0 to 49° C)
Humidity Range	0% to 95% non-condensing	0% to 95% non-condensing
Case Material	Plastic	Extruded aluminum

Table 2-2. Data Receiver Specifications

Frequency	VHF (138 to 174 MHz); UHF (406 to 512 MHz); 900 (929 to 932 MHz)
Code Format	512, 1200, or 2400 BAUD POCSAG, alphanumeric
Address Codes	Four
Adjacent Channel Selectivity	65 dB
Modulation	Carrier frequency shift key (FSK)
Frequency Stability	0.00025% 900 MHz; 0.0005% UHF; 0.002% VHF
Spurious Rejection	40 dB

Installation

INTRODUCTION

This section describes unpacking, installation, and initial powerup of both the small and large versions of AlphaLert signs.

UNPACKING

Both large and small AlphaLert signs are shipped in single container boxes. The contents of each box, with the exception of the mounting hardware, are shown in Figures 2-1 and 2-2. After unpacking, complete the following:

1. Compare all items shipped with Figures 2-1 and 2-2 and examine for damaged or missing parts. Retain shipping materials should warranty service be required.
2. Notify the shipping agency and AMS immediately if parts are damaged or missing.

SMALL ALPHALERT SIGN INSTALLATION

The small AlphaLert sign can be suspended from a ceiling, positioned upright on a countertop, or mounted on a wall. For use on a countertop, the wall mounting brackets must be attached and used as braces to stand the sign upright. Mounting hardware included with AlphaLert signs are listed in Table 3-1.

Table 3-1. Small AlphaLert Sign Mounting Hardware

Item	Quantity	Use
Mounting Bracket	2	Wall mount and countertop support
#10 Knobs and Lock Washers	2 of each	Secure brackets to AlphaLert sign for wall mount or countertop support

NOTE:

1. Operating the AlphaLert sign while lying flat on its back will block ventilation and cause excessive overheating.
2. Do not keep an AlphaLert sign in direct sun light. Extremely high temperatures may damage the internal circuitry or the display case. See **Specifications** for operating temperature ranges.
3. Do not place an AlphaLert sign outdoors where the possibility of water exposure could occur.
4. The desk-top power supply is supplied with a 3-wire grounding-type plug having a third grounding pin. This plug only fits into a grounding type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact a qualified electrician to provide the appropriate outlet.

The mounting hardware should be able to support at least four times the weight of an AlphaLert sign. Select a desirable location and one of the following installation methods.

Suspending the Small AlphaLert Sign from a Ceiling

1. Refer to Figure 3-1 and locate the hanging links in the seam. These are located at both ends, on the top of the sign's case.
2. Turn the sign upside down and the links will turn out. The link can be bent for angle adjustment, if needed.
3. From the ceiling, install two chains (or other means) 24 inches apart.
4. Connect the sign to the chains (or other means) to suspend from the ceiling.
5. Ensure adequate head clearance below the sign.

Preparing the Small AlphaLert Sign for Upright use on a Countertop

1. Attach the small end of the mounting brackets to the left and right sides of the sign using the enclosed #10 screws and lock washers. Large end bracket holes should face inside. The lock washers must be placed between the mounting brackets and the sign.
2. Adjust the sign to the desired angle, then tighten screws.

Mounting the Small AlphaLert Sign to a Wall

1. For wood surfaces, attach the large end of the brackets to the wall surface using two #8 screws in the top and bottom holes. Large end bracket holes should face inside.
2. For drywall mounting, attach the brackets in the same manner using toggle bolts
3. Attach the small end of the mounting brackets to the sign using the enclosed #10 knobs and lock washers. Lock washers must be placed between the mounting bracket and the sign.
4. Adjust the sign to the desired angle, then tighten screws.

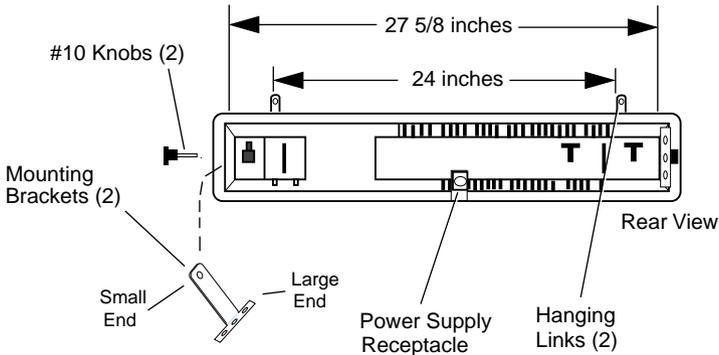


Figure 3-1. Small AlphaLert Sign Installation Diagram

LARGE ALPHALERT SIGN INSTALLATION

The large AlphaAlert sign can be suspended from a ceiling, mounted on a counter-top, or on a wall. Mounting hardware included with AlphaAlert signs are listed in Table 3-2.

Table 3-2. Large AlphaAlert Sign Mounting Hardware

Item	Quantity	Use
Pivot Bracket	4	Wall mount
Hanging Brackets	2	Ceiling suspension
6-32 X .50 Screws	2	Lock hanging brackets into position
8-32 X .375 Screws and 8-32 Lock Washers	8 of each	Secure pivot brackets to back of sign chassis
5/16-18 X .50 Screws, 5/16-18 Hex Nuts, 5/16 Lock Washers	2 of each	Secure wall mounted pivot brackets to sign pivot brackets
Cotter Pins	2	Lock sign viewing angle after adjustment
Rubber Bumpers	8	Spacers used between pivot bracket and sign

NOTE:

1. The power supply is supplied with a 3-wire grounding-type plug having a third grounding pin. This plug will only fit into a grounding type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact a qualified electrician to provide the appropriate outlet.
2. Do not install the large AlphaAlert directly to drywall or plasterboard. The sign's weight requires fastening to wall studs or other structure capable of supporting the sign. Ensure one inch minimum distance on all sides when mounting sign for adequate ventilation.

The mounting hardware should be able to support at least four times the weight of an AlphaLert sign. Select a desirable location and one of the following installation methods.

Suspending the Large AlphaLert Sign from a Ceiling

1. Remove one end cap by removing the top and bottom screws holding the end cap in place as shown in Figure 3-2.
2. Slide the two hanging brackets into the dove tail slot located on the top of the sign. Slide the brackets to the appropriate locations.
3. Thread the 6-32 X .50 screw into the hanging bracket and tighten until screw engages dove tail slot.
4. Install two chains (or other means) a maximum of 33.5 inches apart.
5. Connect the sign to the chains (or other means) to suspend from the ceiling. Ensure adequate head clearance below the sign.
6. Reinstall end cap and secure with top and bottom screws.

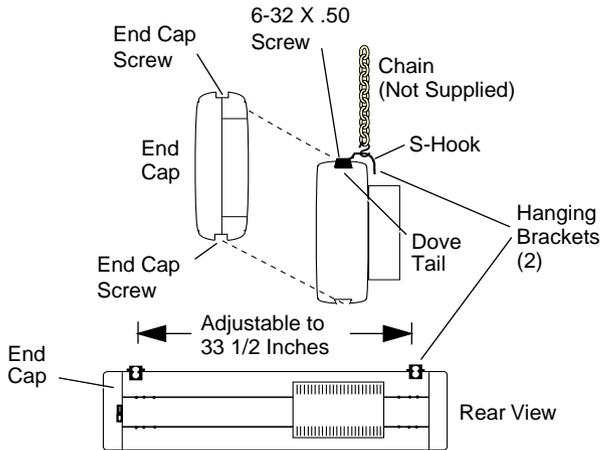


Figure 3-2. Large AlphaLert Sign Ceiling Suspension Installation Diagram

Mounting the Large AlphaLert Sign to a Countertop

1. Place two rubber bumpers on each of the two pivot brackets shown in Figure 3-3.
2. At each end in the back of the sign chassis, line up the pivot bracket with the two inside 8-32 tapped holes. Mount the two pivot brackets to the sign with the four 8-32 X .375 screws and four 8-32 lock washers.
3. The sign can now be mounted to a countertop.

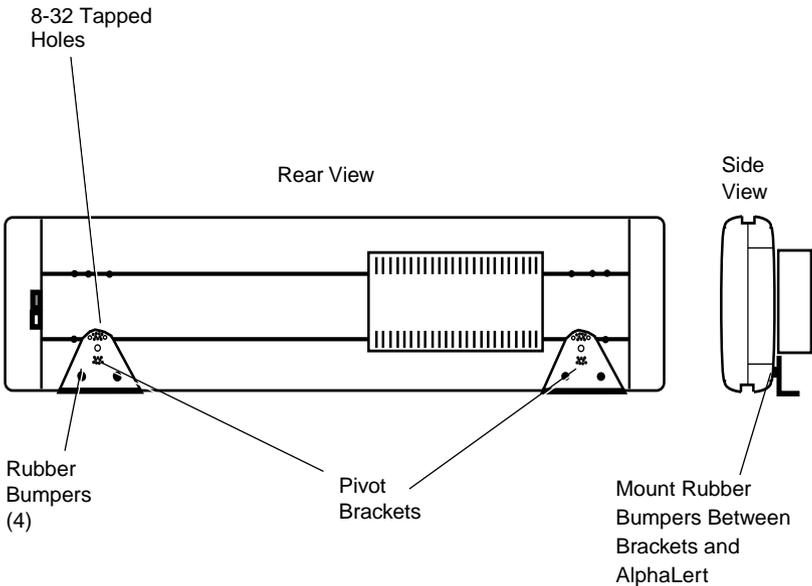


Figure 3-3. Large AlphaLert Sign Countertop Installation Diagram

Mounting the Large AlphaLert Sign to a Wall

1. Place two rubber bumpers on each of the two pivot brackets shown in Figure 3-4.
2. At each end in the back of the sign chassis, line up the pivot bracket holes with the outer two sets of 8-32 tapped holes. Mount the two pivot brackets, with holes facing toward the center of the sign with the four 8-32 X .375 screws and four 8-32 lock washers.
3. See **Large AlphaLert Sign Installation, Note** and attach the remaining two pivot brackets to the wall as shown in Figure 3-4.
4. Mount the sign to a wall as shown in Figure 3-4.

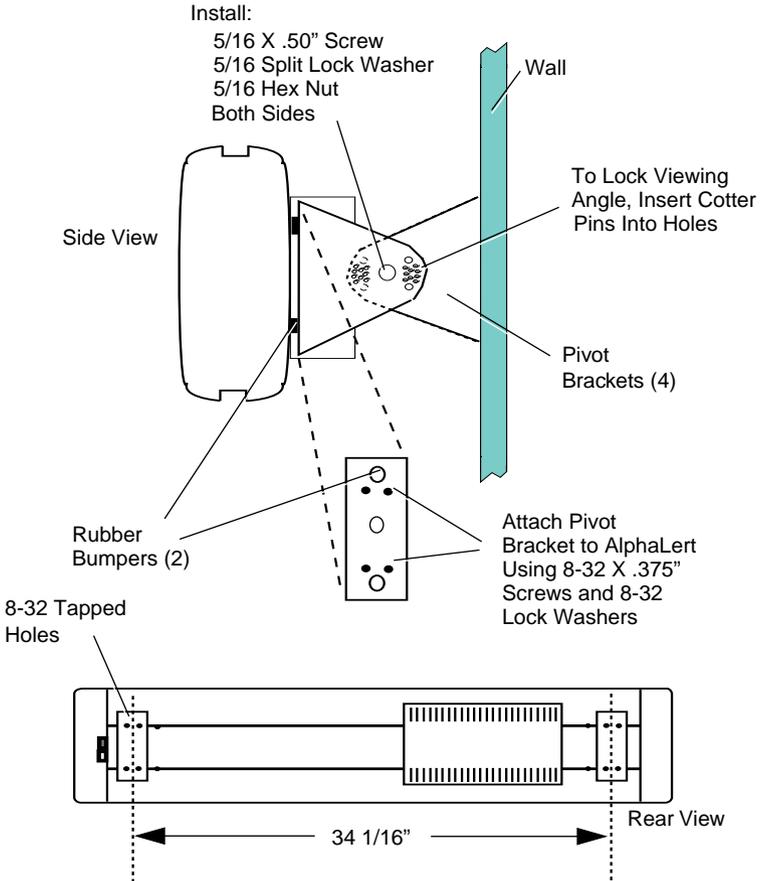


Figure 3-4. Large AlphaLert Sign Wall Mounting Installation Diagram

APPLYING POWER TO THE SMALL ALPHALERT SIGN

Apply power to the small AlphaLert sign as follows:

1. Connect the power supply plug into the sign power supply receptacle.
2. Connect the power supply to an AC power outlet. The sign emits three audible beeps then displays the messages: **Motorola, AlphaLert, Version 1.3.** See note below.

APPLYING POWER TO THE LARGE ALPHALERT SIGN

Apply power to the large AlphaLert sign as follows:

1. Connect the power supply power cord to an AC power outlet. The sign emits three audible beeps then displays the messages: **Motorola, AlphaLert, Version 1.3.** See note below.

Note:

This message is preprogrammed into the 'A' message slot at the factory. Once another message is sent to the 'A' slot, this message does not appear again.

TROUBLESHOOTING

Make the following general checks before requesting service.

1. Verify primary power is as specified (120 VAC or 220 VAC).
2. Check all cable and power connections.

Sending messages

INTRODUCTION

This chapter describes the procedure for sending a display message from a paging network to an AlphaLert sign.

SENDING A MESSAGE TO AN ALPHALERT SIGN

NOTE:

If the Data Receiver has been preprogrammed to a paging address, use the procedure that follows to send messages. If programming or reprogramming is required, follow the instructions contained in the **Receiver Programming** chapter.

Each Alphasert sign has the capability of displaying messages in 26 different message slots. The sign continuously cycles through the messages in the slots.

Messages to be displayed may be entered in any of the 26 slot positions, A through Z, shown in Figure 4-1. The slot positions may be selected at random (R, F, T, J, etc.). However, received messages are always displayed in an ascending alphabetical sequence, A through Z. For example, If messages are in slots D and F and a message is sent to slot E, the message is received and inserted into the slot E position.

The message is then displayed between the messages in slot D and F. If the only messages sent to the sign are in slots D,E, and F, then the messages are displayed in sequence with D first, E second, followed by F. If an additional message is sent to slot R, then the display sequence is D, E, F, then R.

The small AlphaLert sign displays up to 150 characters for each message and the large AlphaLert sign up to 900 characters. The total number of characters available depends on the capabilities of the user's paging network.

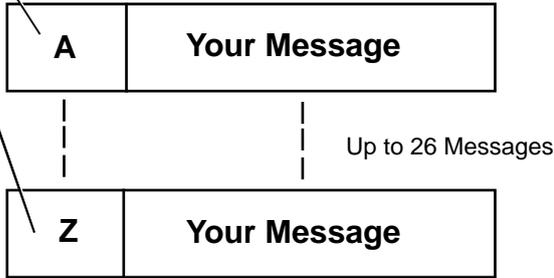
Slot Positions:

One Character for each message

Message:

Small sign up to 150 Characters

Large sign up to 900 Characters

**Send a Message**

Perform the following procedure to send a message (alphanumeric page) to a sign:

1. Using an alphanumeric page entry device, enter a message in the Figure 4-1 format as follows:
 - a. Select one of 26 slots (capital letters A through Z).
 - b. Enter your message directly after the slot letter.
 - c. Send message.
2. Repeat step 1 as required to send additional messages or overwrite an existing message.

Examples: To send the message '**CD INTEREST RATE 4.3%**' to message slot A, enter the alphanumeric page '**ACD INTEREST RATE 4.3%**'.

To send the message '**HALF OFF SALE TODAY**' to message slot B, enter the alphanumeric page '**BHALF OFF SALE TODAY**'.

The message will be displayed in an automatically formatted mode. For example, the sign selects the scrolling mode, colors (in a color AlphaLert sign), etc. for the displayed message.

Clear a Message

To clear a message, perform the following:

1. Using the same procedure as above, send only the slot letter where the message resides.
2. Repeat as required.

Examples: To clear the message 'CD INTEREST RATE 4.3%' in message slot A, enter and send only the slot letter A.

To clear the message 'HALF OFF SALE TODAY' in message slot B, enter and send only the slot letter B.

Beep When Message is Received

Use a right bracket '[' followed by a '1' followed by the number of beeps (1-5). This may be embedded anywhere within the message area.

Example: ABeepTest]15

This example places 'BeepTest' into text file 'A' and then beeps five times.

Clear Selected Message Slots

Use a '1' in the message slot position followed by two '*'s and a list of file labels whose contents are to be cleared.

Example: 1**A,B,D-H,X

Individual file labels and ranges are separated with commas. Ranges are designated by sending a hyphen following a file label, and preceding another file label with a greater alphabetical value than the first (B is greater than A, C is greater than B and A, etc.).

Display Selected Message Slots

Use a '2' in the message slot position followed by two '*'s and a list of file labels whose corresponding contents are required to run. File labels may be listed multiple times within the file label list. The file label list may contain a maximum of 128 file labels. The files run according to the order they are listed. After the last file in the file label list has run, the first file in the file label list runs.

Example: To run only files A, B, P, Q, R, S, T,
enter **2**A,B,P-T**

The contents of each file is not affected by this command. If the file list is null, no files will run, leaving the display blank.

The default file list consists of all files configured in the sign. To return the files to the default state, the following command must be entered: **2** A-Z**

Time Display

Use a bracket ']' followed by an 'S'. This may be embedded anywhere within the message area to display the current time as set and adjusted by the Time Set and Time Adjust values.

Example:]S

Time Set

Use a '3' in the message slot position followed by two '**'s and the desired time structured in military format to set the sign's internal clock. Following this is an 'S' for standard time or an 'M' for military. These determine the time format when the time is displayed within a message.

Example 1: 3**1430S sets the sign's internal clock to 14:30, but displays the time as 2:30 within the message.

Example 2: 3**1430M sets the sign's internal clock to 14:30, and displays the time as 14:30 within the message.

Time Adjust

Use a '4' in the message slot position followed by two '**'s and three additional characters representing the positive or negative adjustment amount in minutes. The first of the three characters is a '+' or '-'. These determine whether the time adjust value is added or subtracted from the current time in the sign. The last two characters are digits ranging from 00 through 99 and represent the time adjust value in minutes. Note that time adjustment numbers with values less than 10 must be preceded by a zero. i.e., 01, 02, 03, etc.

Example: 4**+05

Soft Reset

Use a '5' in the message slot position followed by two '**'s to perform a 'soft' reset of the sign. A soft reset causes the sign to reinitialize itself and restart normal operation.

Example: 5**

Hard Reset

Use a '6' in the message slot position followed by two '**'s to perform a 'hard' reset of the sign. A hard reset results in a reset to all sign hardware. This occurs within 10 to 20 seconds following the receipt of a hard reset command.

Example: 6**

Advanced message formatting

INTRODUCTION

This chapter describes the optional procedure for sending an advanced custom formatted display message from a paging network to an AlphaLert sign.

ADVANCED MESSAGE FORMATTING AND CONTROL

In addition to providing a method to send messages to an AlphaLert sign using an automatic format mode, another specialized application feature allows specific detailed formatting of messages. As a result, messages can be displayed in a variety of line positions and presentation modes, i.e., scroll types, colors, fonts, and other special features.

The advanced message format characters and control code format characters for these are listed in Tables 5-1 and 5-2.

Line Positions and Presentation Modes

The advanced message format is shown in Figure 5-1. The format must always be in the order shown. The characters for changing the various effects are listed in Table 5-1. Refer to the end of this chapter for message examples.

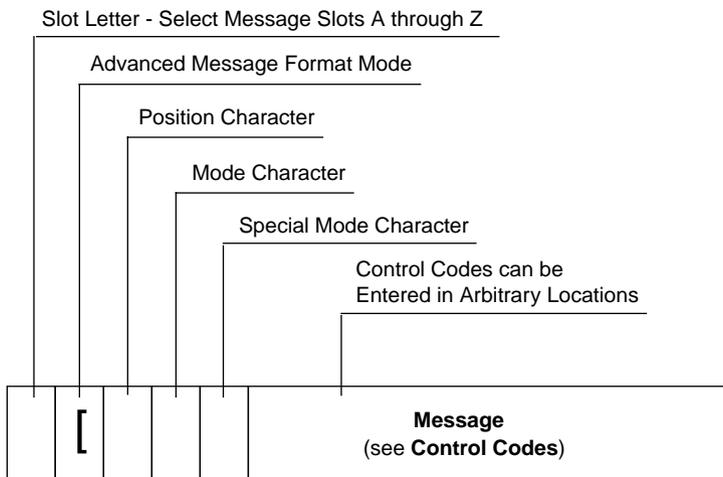


Figure 5-1. Advanced Message Format

Table 5-1. Advanced Message Format Characters

Function	Character	Effect
Advanced Message Format Mode	[Allows use of advanced functions contained in this table
Position Character:	(blank space)*	Moves message to middle line
* For small AlphaAlert sign, use middle line position (blank space) only.		
	"	Moves message to top line
	&	Moves message to bottom line
	0 (number)	Fill - fills both lines with selected character size
Mode Character:	A	Rotate
(see Note page 5-3)	B	Hold
Continued Next Page		

Table 5-1. Advanced Message Format Characters (Continued)

Function	Character	Effect
<p>Note: If it is desired to use one of the Special Mode Characters that follow, Mode Character 'N' must be selected as the Mode Character. If any Mode Character is used other than 'N', Special Mode Characters cannot be used. Either a Mode Character OR a Special Mode Character can be used, but NOT both.</p>	C	Flash
	E	Roll up
	F	Roll down
	G	Roll left
	H	Roll right
	I	Wipe up
	J	Wipe down
	K	Wipe left
	L	Wipe right
	M	Scroll
	P	Roll in
	Q	Roll out
	R	Wipe in
	S	Wipe out
N	Special mode character enable. Must be selected if a Special Mode Character is to be used (see Note to left).	
Special Mode Character:	0 (number)	Twinkle
	1	Sparkle
	2	Snow
	3	Interlock
	4	Switch
	5	Slide
	6	Spray
Continued Next Page		

Table 5-1. Advanced Message Format Characters (Continued)

Function	Character	Effect
	7	Star burst
	8	Welcome graphic
	9	Slot machine graphic
	S	Thank you graphic
	U	No smoking graphic
	V	Don't drink and drive graphic
	W	Running animal graphic
	X	Fireworks graphic
	Y	Race car graphic
	Z	Bomb graphic

Control Codes

The control codes listed in Table 5-2 can be embedded within the message area of the message format to change colors, video characters, fonts, and other message characteristics. The control identifier followed by the control character must precede the affected message character(s). Refer to the end of this chapter for message examples.

Table 5-2. Control Code Format Characters

Function	Character	Effect
Control Identifier]	Enables control character
Control Character:	I	No hold time - causes display to update as fast as possible
Continued Next Page		

Table 5-2. Control Code Format Characters (Continued)

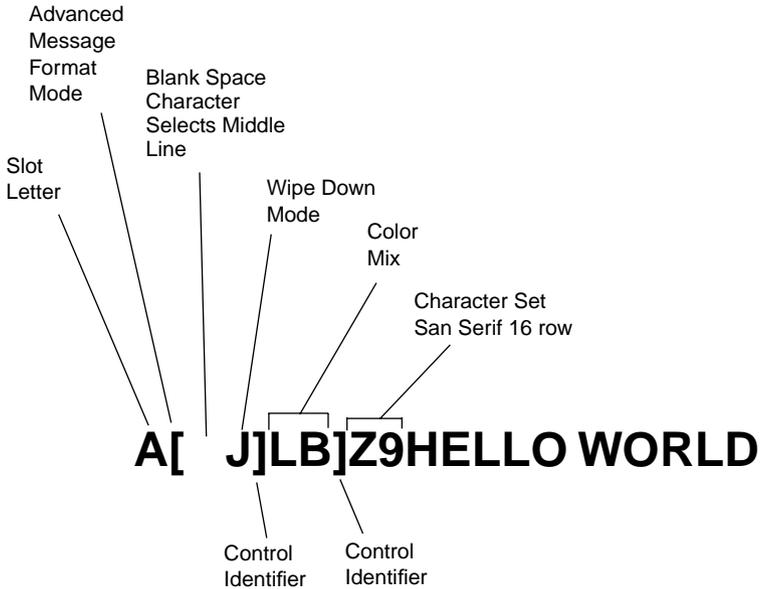
Function	Character	Effect
	L	Select character color - must be followed by these color codes: 1 = red 2 = green 3 = amber 9 = rainbow 1 A = rainbow 2 B = mix
	M	Carriage return - start of new line on message center
	Q	Disable wide characters
	R	Enable wide characters
	U	Select speed 1 (slowest)
	V	Select speed 2
	W	Select speed 3
	X	Select speed 4
	Y	Select speed 5 (fastest)
	Z	Select character set - selects font and height of display characters. Must be followed by character set code: 1 = san serif 5 row. 3 = san serif 7 row. 5 = serif 7 row. 8 = serif 16 row. 9 = san serif 16 row. (16 row must be used in middle line mode)

Note:

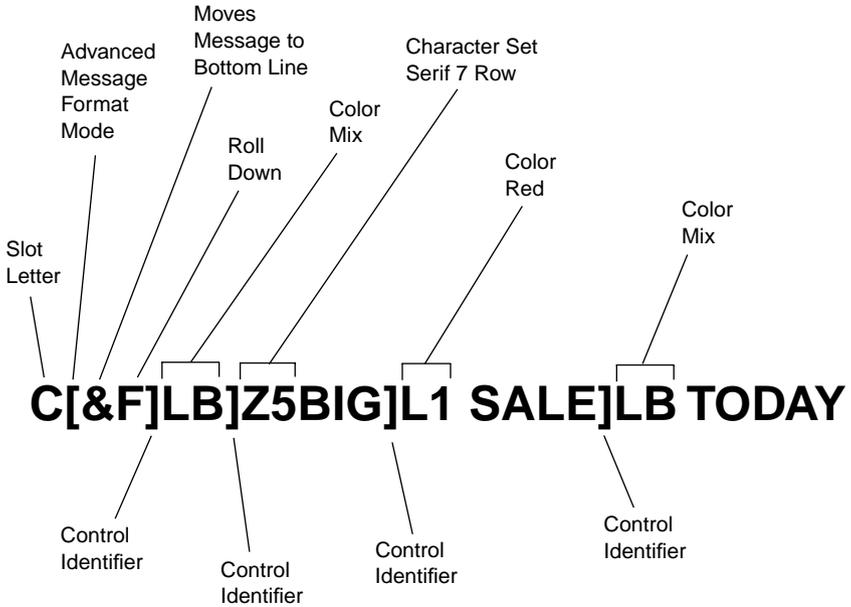
Non-printable ASCII characters sent to an AlphaLert sign over a paging network will not display.

Message Examples

The following are sample messages containing different presentation features. The codes used for these messages are contained in Tables 5-1 and 5-2. Also refer to Figure 5-1 for format information.



This example sends the message to slot A. The AlphaLert sign displays the message **'HELLO WORLD'** in the middle line position, wipe down scroll mode, mixed color, and san serif 16 font (must be used in middle line mode).



This example sends the message in slot C. The AlphaLert sign displays the message '**BIG SALE TODAY**', places message on bottom line (on large AlphaLert sign), rolls down, character set is serif 7 row, first word **BIG** is color mix, second word **SALE** is red, third word **TODAY** is color mix.

Receiver programming

INTRODUCTION

This chapter describes the procedures for programming or reprogramming a Data Receiver used with an AlphaLert sign.

Note: Data Receivers are already pre-programmed when they leave the factory. This section only applies if you are *re*-programming or *custom* programming a Data Receiver.

DATA RECEIVER MODULE PROGRAMMING PROCEDURES

To program the Data Receiver, perform the procedure listed in Table 6-1.

Table 6-1. Data Receiver Programming Procedure

Step	Task	Action
1.	Reposition jumper JU1	Disconnect Data Receiver cable from the back of the sign (see Figures 6-1 and 6-2). Remove Data Receiver (connected by Velcro) from AlphaLert. Remove black tape covering holes on top and bottom of Data Receiver. Save the tape. Remove four screws from Data Receiver cover. Remove cover and set aside. Lift receiver board out of Data Receiver. Refer to Figure 6-3 and move receiver board jumper JU1 to the 1-2 position. Connect programming cable from the PC to the receiver connector (see Figures 6-3 and 6-4).
Continued Next Page		

Table 6-1. Data Receiver Programming Procedure (Continued)

Step	Task	Action
2.	<p>Start Data Receiver program software</p>	<p>Note: For setting up the PC program software, refer to the Motorola's <i>Programmer's Reference Manual</i>, 6881132B03-0.</p> <p>Start and enter PC programmer application.</p> <p>On the MAIN MENU screen, select F9 - SETUP COMPUTER CONFIGURATION.</p> <p>Select F3 - SETUP HARDWARE CONFIGURATION. Change BAUD rate to 9600.</p> <p>Return to MAIN MENU by selecting F10 two times.</p>
3.	<p>Setup receiver configuration</p>	<p>Select F5 - CREATE/MODIFY/VIEW CODE-PLUG.</p> <p>Select POCSAG BPS (baud rate) and CODE A through CODE D values to your requirements.</p> <p>Note: Ensure that the RS232 configuration remains at 9600 baud, no parity, and 8 data bits. This applies to the computer connection, not the POCSAG BPS, which can be 512, 1200, or 2400 BPS as determined by the paging system program.</p>
4.	<p>Program Data Receiver with desired data</p>	<p>Press keyboard function key F7.</p> <p>Press keyboard function key F2 to program new Data Receiver configuration into receiver.</p>
5.	<p>Reconnect Data Receiver to sign</p>	<p>Disconnect PC programming cable from Data Receiver.</p> <p>Move jumper JU1 back to position 2-3. Note: If jumper is not placed back to position 2-3, receiver will not operate with AlphaLert.</p> <p>Reassemble, attach, and connect Data Receiver to AlphaLert in the reverse order of step 1.</p> <p>Data Receiver programming is complete.</p>

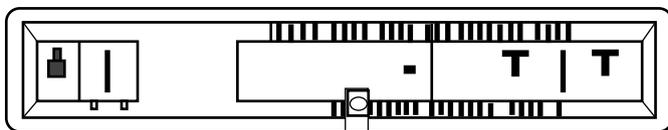


Figure 6-1. Small AlphaLert Sign Receiver Cable Removal

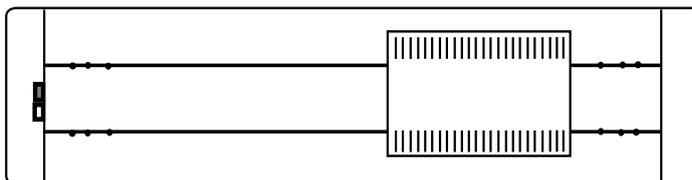
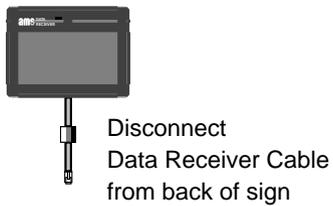
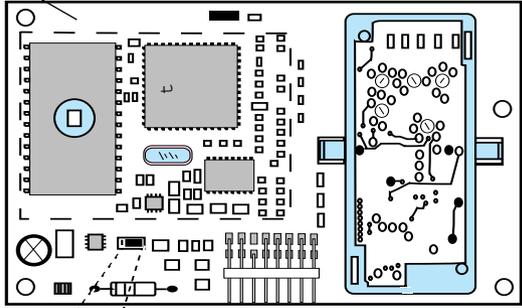
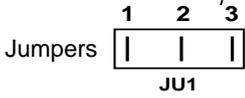


Figure 6-2. Large AlphaLert Sign Receiver Cable Removal

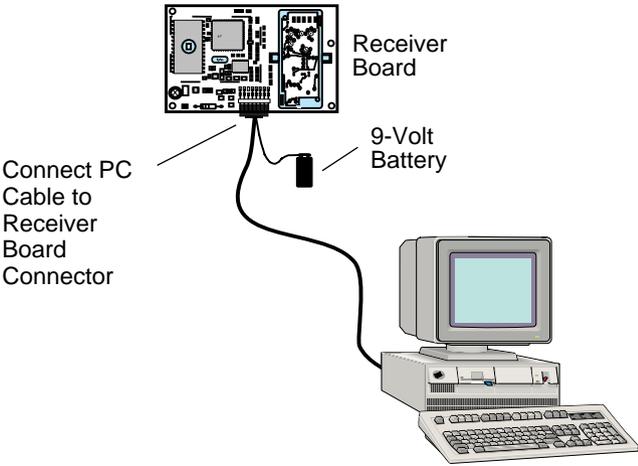
Receiver Board



PC Connector



	Position	Function
Jumper JU1 Pins	1-2	Program Mode
	2-3	Normal Operation



Receiver Board

9-Volt Battery

Connect PC Cable to Receiver Board Connector

*FrameMaker has detected one or more
PostScript errors in this document.
(Tom)
Please check your output.*