Alpha® Window Display User Manual



NOTE: For the BetaBrite Window Display, see the BetaBrite Window Display User Manual, PN 9703-8008.



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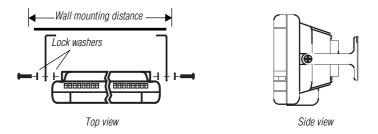
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Display installation

Wall mounting

- 1. Attach two wall brackets in the mounting kit (PN 1038-9003) to a wall 46-3/4" (118.7 cm) apart (measured from the center of each bracket.)
- 2. Attach the mounting brackets to the display as shown.



Ceiling mounting

Using the mounting kit (PN 1038-9003) and a chain (not supplied in the kit), mount the display from the ceiling as shown:



Counter mounting

The display will stand up if placed on a counter. However, for greater stability, use the mounting kit (PN 1038-9003.)



Programming messages into your display

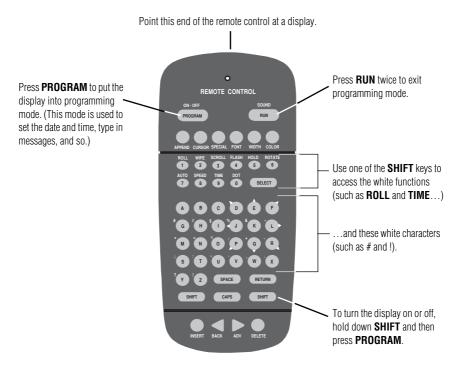
You can operate an Alpha[®] Window Display in two ways:

- by using a hand-held remote control
- by using a computer with appropriate software (See "Appendix C – Connecting a display to a computer" on page 44.)

Using a remote control to operate your display

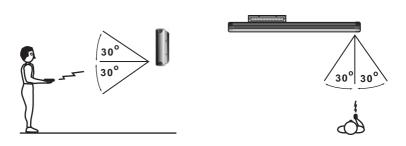
A remote control is a hand-held keyboard used to operate an Alpha[®] Window Display. Most of this manual shows you how to program messages on your display using a remote control.

A remote control needs four AAA batteries to operate.



To program a display with a remote control:

- Stand at least 5 feet and no more than 30 feet from the display.
- Make sure nothing reflective is in front of the display. (Light from a display screen that is reflected back can interfere with the remote control.)
- If nearby fluorescent lights interfere with the remote control, you may have to relocate either the lights or the display.





Top view

If a display is this far from the floor	then hold a remote control this far away:
10 feet	from 10 to 30 feet
15 feet	from 19 to 30 feet
20 feet	from 25 to 30 feet

Figure 1: Using a remote control with a display

Using software

You can use Alpha[®] Messaging Software to send messages to the Alpha[®] Window Display. Refer to 9701-0202, **Messaging Software User Manual**, for additional information.

Basic display operation

Turning a display on and off

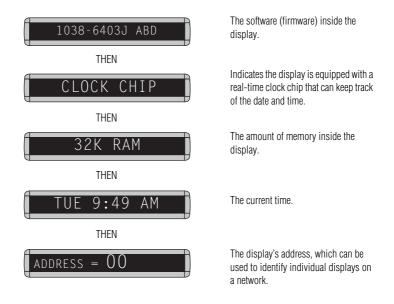
When you plug in the display's power supply, the display starts up automatically. Unplugging the power supply turns the display off.

However, instead of unplugging a display, there is another way to turn a display off:

Hold down SHIFT and then press PROGRAM to turn a display off and on.

NOTE: Messages you have programmed into the display will not be lost when you turn a display off or remove power. Messages are retained for up to 30 days if the display is not powered.

When the display is turned on, the following appears:



Setting a display's time and date

The display must be initially programmed for time and date. Occasionally, you may want to do this, e.g., for daylight savings time.

Once set, the Alpha[®] Window Display will remember the time and date, even if the display is unplugged or interrupted by a power loss, since the display includes a real-time clock chip.

Step	When you do this	You see this
1	Press PROGRAM .	PROG TEXT A
2	Press BACK until SET TIME appears.	SET TIME
3	Press ADV .	SET W/D, H&M then MON 2:29 PM
4	Press D to set the day of the week. Press H to set the hour. Press M to set the minute. NOTE: Press SELECT to change from 12-hour (AM/PM) to 24-hour mode (0–23).	TUE 11:45 AM
5	Press BACK until SET DATE appears.	SET DATE
6	Press ADV .	SET WITH D,M,&Y <i>then</i> JAN. 25,2002
7	Press D to set the day. Press M to set the month. Press Y to set the year. NOTE: Press SELECT to show the date in different formats—for example, JAN 26, 2002, 1/26/02, 26/1/02, and so on.	JAN. 26,2002
8	After setting the date and time, press RUN twice to return to normal operation.	

Setting a display's dimming

The display is initially programmed to never dim. You may want to change the time to dim or how much to dim.

Step	When you do this	You see this
1	Press PROGRAM.	PROG TEXT A
2	Press BACK until SET DIMMING appears.	SET DIMMING
3	Press ADV.	ON = NEVER
4	 Press SELECT to set the time of day to <i>start</i> dimming the sign. Dimming is by whole hour increments. NOTE: Use Table 1, "Valid start and stop times for dimming," on page 7 to choose the correct start time. 	ON = 9:00 PM
5	Press ADV.	OFF = NEVER
6	 Press SELECT to set the time of day to <i>stop</i> dimming the sign, that is, to resume full brightness. NOTE: Use Table 1, "Valid start and stop times for dimming," on page 7 to choose the correct stop time. NOTE: If ON time is set to ALWAYS or NEVER, OFF time is irrelevant. If ON time is set to a specific hour, also set OFF time to a specific hour. 	OFF = 6:00 AM
7	Press ADV.	LEVEL = 100%
8	Press SELECT to set the level of dimming (100%, 70%, 50%, or 30%).	LEVEL = 50%
9	After setting the dimming features, press RUN twice to return to normal operation.	

Dimming start and stop times

12:00 AM	12:00 PM	NEVER
1:00 AM	1:00 PM	Sign will never dim.
2:00 AM	2:00 PM	ALWAYS
3:00 AM	3:00 PM	Sign will always be
4:00 AM	4:00 PM	dimmed at the
5:00 AM	5:00 PM	percentage set for level.
6:00 AM	6:00 PM	
7:00 AM	7:00 PM	
8:00 AM	8:00 PM	
9:00 AM	9:00 PM	1
10:00 AM	10:00 PM	
11:00 AM	11:00 PM	

Table 1: Valid start and stop times for dimming

Clearing a display's memory

NOTE: Clearing a display's memory erases all messages, graphics, and passwords that have been programmed into the display.

Step	When you do this	You see this
1	Press PROGRAM .	PROG TEXT A
2	Press BACK until CLEAR MEMORY appears.	CLEAR MEMORY
3	Press ADV .	WARNING! then CLEAR ALL? Y/N
4	Press Y to clear the display's memory. The display will return to normal operation and this screen will appear.	PROG TEXT A
5	After setting the date and time, press RUN twice to	return to normal operation.

Setting a display's password

Some displays allow you to set a personal password to protect your messages and graphics from tampering by others.

- NOTE: Don't forget your password. If you do, you will not be able to operate the display.
- NOTE: However, if you do forget the password, see "What to do when you forget a password" on page 10.

Step	When you do this	You see this
1	Press PROGRAM .	PROG TEXT A
2	Press BACK until SET PASSWORD appears.	SET PASSWORD
3	Press ADV .	SET PASSWORD? Y/
4	Press Y to set a password.	ENTER 6 CHAR'S
F	Type a 6-character password. (Only asterisks will appear on the display as you type.) Re-type the password when prompted.	***** then RE-ENTER THE 6 then
5	CORRECT will appear if you typed the same password. If you failed to type the same password, ERROR will appear, and you will have to start over from Step 1.	then CORRECT then PROG TEXT A
6	Press RUN twice.	PASSWORD RUN? Y/

	Press Y to password protect the display.	SECURE
7	NOTE: If you select N , then a password will not	The display will return to normal operation.
be needed when you press PROGRAM .	Now, whenever you press PROGRAM , you'll have to type the password you just entered.	

What to do when you forget a password

Step	When you do this	You see this
1	Press PROGRAM .	PROG TEXT A
2	Hold down SHIFT and press L six times.	then CORRECT then PROG TEXT A
3	Type a new password. (See "Setting a display's password" on page 9.)	

How to delete a display's password

If you no longer want to be prompted to password protect a display, you must clear the display's memory in order to delete the password. To do this, see "Clearing a display's memory" on page 8.

Basic text messaging

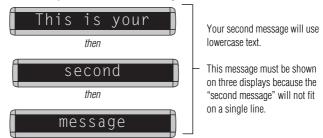
This section shows you how to create messages on your display.

Example 1 — Using upper and lowercase in messages

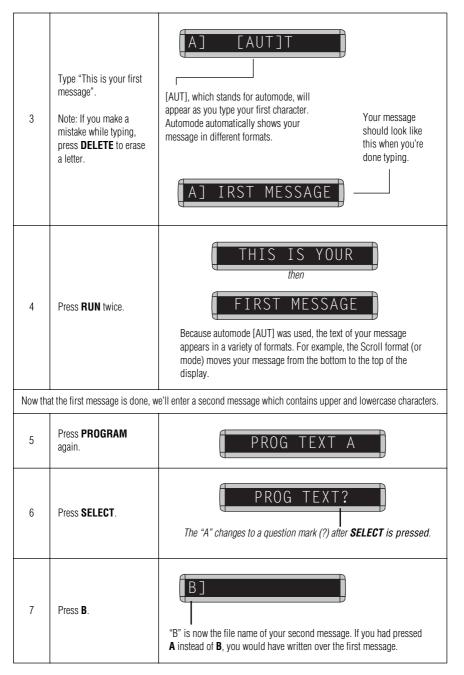
In this first example, the text "This is your first message" appears like this:

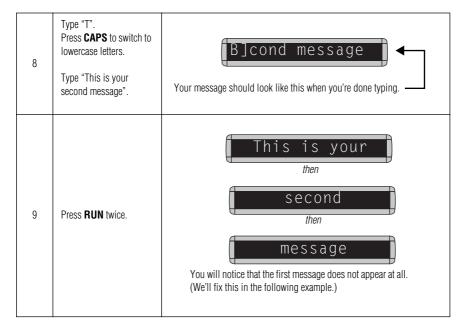


... and the text "This is your second message" like this:



Step	When you do this	You see this
1	Press PROGRAM .	PROG TEXT A
2	Press ADV .	A "A" is the file name of your message

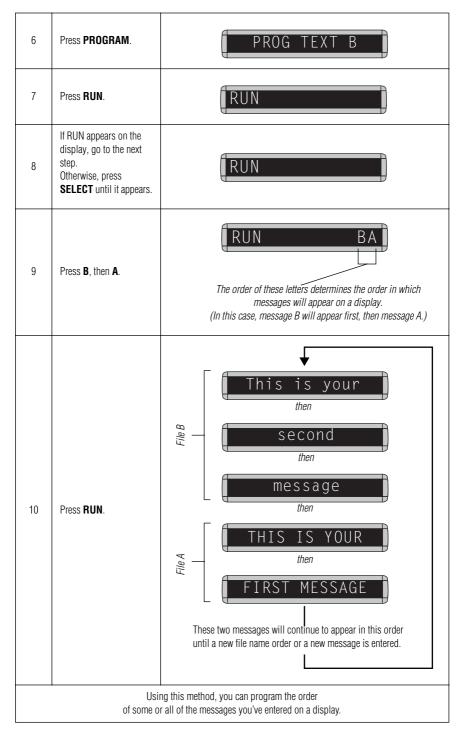




Example 2 — Showing messages in file name order (A, B, C, and so on.)

Once you've programmed messages into the display, you may want to set the order or sequence in which messages appear. This method will show messages by their file name (A, B, C, and so on) or in alphabetical order.

Step	When you do this	You see this	
	This example continues where Example 1 left off. This example assumes there are two messages (files A and B) in the display: File A = THIS IS YOUR FIRST MESSAGE File B = This is your second message		
1	Press PROGRAM .	PROG TEXT B	
2	Press RUN .	TIME (or TIM) or DEMO (or CAN) may also appear here.	
3	If RUN appears on the display, go to the next step. Otherwise, press SELECT until it appears.	RUN	
4	Press B .	RUN B	
5	Press RUN .	This is your then Second then Message	
	You have just programmed the display to run only message file B.		
	Next, we'll program the display to show message file B first, then A.		



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Example 3 — Showing messages in time order

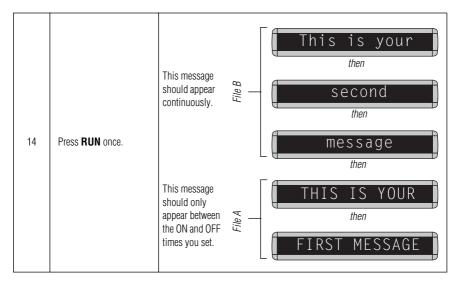
In Example 2, you set the order of messages by file name. However, that method could not specify an exact time when a message would appear.

In this example, we'll show you how to make a message appear and disappear at times you specify.

NOTE: Unless a display has a battery-backed clock, showing messages in time order will only work as long as a display is powered. When a display without a battery-backed clock loses power, its internal clock becomes inaccurate and must be reset. (See "Setting a display's time and date" on page 5).

Step	When you do this	You see this	
	For this example, make sure that your display's internal clock has been accurately set. (See "Setting a display's time and date" on page 5.)		
	This example continues where Example 2 left off. This example assumes that there are two messages (files A and B) in the display: File A = THIS IS YOUR FIRST MESSAGE File B = This is your second message		
In thi		display to show File A Monday through Friday from 1:10 PM to 2:30 PM. program the display to always show File B.	
	NOTE: Four default text files have been set up with specific run times for your convenience: Text File A = Always (Runs 24 hours.) Text File M = Morning (Runs 4 AM to 11 AM.) Text File N = Noon (Runs 11 AM to 5 PM.) Text File E = Evening (Runs 5 PM to 4 AM.)		
1	Press PROGRAM .	PROG TEXT A	
2	Press SELECT until B appears.	PROG TEXT B	
3	Hold down SHIFT and press 9 for TIME .	BONALWAYS Since file B is already set up, we'll go on to file A. ON ALWAYS is the default setting for a message. A message set to ON ALWAYS will run continuously.	
4	Press PROGRAM .	PROG TEXT B	

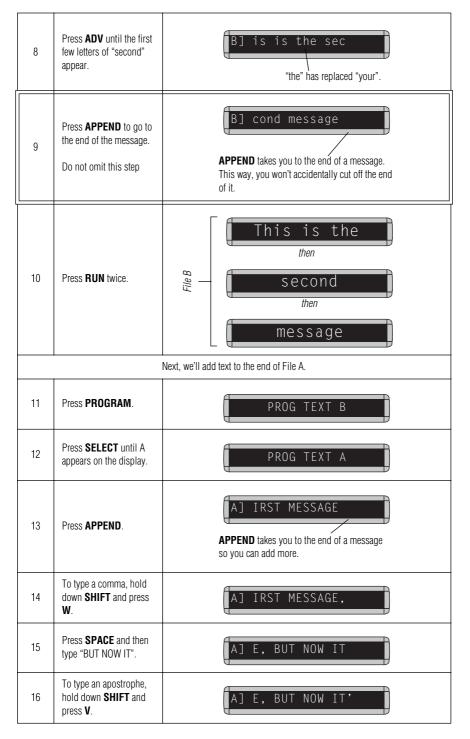
5	Press SELECT until A appears.	PROG TEXT A
6	Hold down SHIFT and press 9 for TIME .	A ON ALWAYS First, we'll select the ON time (when the message starts).
7	Press D (for day) until <i>M-F</i> (Monday through Friday) appears.	A ON M - F O:00 Press D to set the day, H for hour, and M for minute (in 10-minute increments).
8	Press H (for hour) until <i>13:00</i> appears.	Hours must be represented in 24-hour or military style. So 1:00 PM = 13:00, 2:00 PM = 14:00, and so on.
9	Press M (for minute) until <i>13:10</i> appears.	A ON M-F 13:10 Minutes are in increments of 10.
10	Press SELECT .	A OFF M-F 0:00 After setting the ON time, select the OFF time (when the message stops).
11	Repeat Steps 7, 8, and/or 9	to set the OFF time (2:30 or 14:30 in this example.)
12	Press RUN once. (If TIME does not appear, press SELECT until it does.)	TIME RUN or DEMO may also appear here.
13	Press BA to set the display order of these two messages.	TIME BA

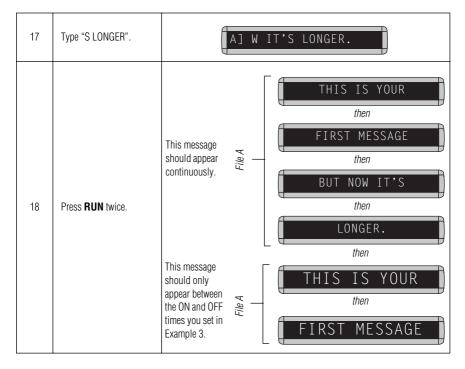


Example 4 — Changing the text of an existing message

After typing in a message, you may want to add or remove text from it. The following is an example of this common situation:

Step	When you do this	You see this						
	This example continues where Example 3 left off. This example assumes that there are two messages (files A and B) in the display: File A = THIS IS YOUR FIRST MESSAGE File B = This is your second message and that File B, then File A appears. In this example, we'll change File A and File B to the following: File A = THIS IS YOUR FIRST MESSAGE, BUT NOW IT'S LONGER File B = This is the second message ("your" changed to "the")							
1	Press PROGRAM .	PROG TEXT A						
2	Press SELECT until B appears.	PROG TEXT B						
3	Press ADV until the space after "your" appears.	B] This is your We're going to delete "your" and replace it with "the".						
4	Press DELETE until "your" and the space after it are erased.	B] [AUT]This is						
5	Press INSERT.	INSERT T]This is Text you type now will be inserted here —after the space following "is".						
6	Type "the" (and then press SPACE).	INSERT is is the						
7	Press INSERT to turn text insertion off.	B] T]This is the						





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Example 5 — Deleting messages

To delete all messages in a display, see "Clearing a display's memory" on page 8.

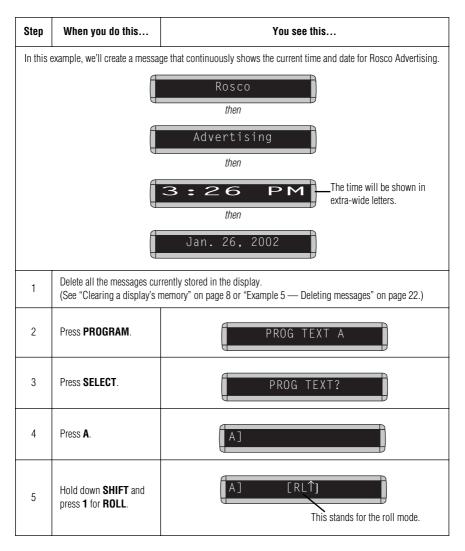
However, if you only want to delete selected messages, then use the method shown in this example.

Step	When you do this You see this								
	This example continues where Example 4 left off. This example assumes that there are two messages (files A and B) in the display: File A = THIS IS YOUR FIRST MESSAGE, BUT NOW IT'S LONGER. File B = This is the second message. In this example, we'll delete File B.								
1	Press PROGRAM .	PROG TEXT A							
2	Press SELECT until B appears on the display.	PROG TEXT B							
3	Press DELETE .	DEL TEXT B? Y/N							
4	Press Y to delete the file.	PROG TEXT A							
5	Press RUN twice.	Hen Hen LONGER.							

Advanced text messages

Before attempting the following, make sure you're familiar with the previous examples in the "Beginning text messaging" section of this manual.

Example 6 — Showing the time and date



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6	Press SELECT to change the roll direction to ↓ (down).	A[RL]Press SELECT until the Roll direction changes to down:[RL \uparrow] = Roll a message up[RL \downarrow] = Roll a message down[RL \leftarrow] = Roll a message to the left[RL \rightarrow] = Roll a message to the right[RL \rightarrow] = Roll a message in from both sides of the display[RL \sim] = Roll a message out from the middle of the display
7	Туре "R".	A] [RL↓]R
89	Using CAPS to switch between uppercase and lowercase letters, type "osco Advertising".	A]o Advertising
	We'll roll th	e time in from the bottom to the top of the display.
9	Hold down SHIFT and press 1 for ROLL .	A] [RLŶ]
10	Press WIDTH to show the time in wide characters.	A] [RL↑][WID] This will show the time in wide letters.
11	Hold down SHIFT and press 9 for TIME .	A] 3:26 PM This will show the current time in wide characters.
	Next, we'll ro	II the date in from the right to the left of the display.
12	Hold down SHIFT and press 1 for ROLL . Then press SELECT to until the roll direction changes to ←.	A] [RL←] We'll make the date roll to the left.
13	Press WIDTH to turn off wide characters.	[A] [RL←][SLM] [SLM] means the following characters won't be wide.

14	Press SPECIAL.	SPECIAL[RL←][SLM]
15	Press M	A]Jan. 26, 2002 Pressing SPECIAL and M inserts the current date into a message.
16	Press RUN twice to see the message. Note: If you want the date in a different format, you must change the date format <u>before</u> including it in a message. The format of a date (time, also) is set in the message even if you change the date format in the sign later.	Rosco then Advertising then 3:26 PM then Jan. 26, 2002

Г

Example 7 — Using fonts

Fonts are the way characters are shown on a display. In the world of printing and publishing, fonts are given names like Times or Helvetica and qualities like serif or sans serif, font size (such as 12 point or 14 point), bold or italic, and so on.

This is Times — a serif font.

This is Helvetica — a sans serif font.

On this display, the following fonts — SS7, SS5, and SRF — are available:



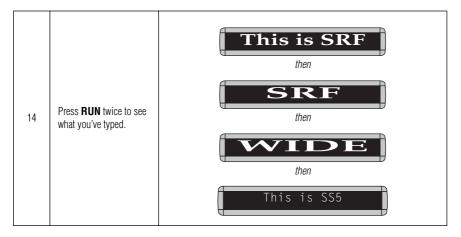
Also, any of the display's fonts can be made bold (or wider) by using the WIDTH button.

To determine what fonts are available on your display, see "Appendix A – Modes and fonts available" on page 42.

The following examples demonstrate how to use fonts on your display.

Step	When you do this	You see this							
1	0	rrently stored in the display. nemory" on page 8 or "Example 5 — Deleting messages" on page 22.)							
2	Press PROGRAM .	PROG TEXT A							
3	Press ADV .	A							

4	Hold down SHIFT and press 5 for the Hold mode.	A] [HLD] Hold mode turns off automode.
5	Press FONT to select SRF (the serif font).	A] [HLD][SRF]
6	Using CAPS and SHIFT when needed, type "This is SRF".	A] his is SRF As you type, the font you selected appears as it will on the display.
7	Press RETURN to start a new line of text.	A] his is SRF
8	Press WIDTH to show wide text.	[WID] = wide text
9	Using CAPS and SHIFT when needed, type "SRF Wide".	AJWide
10	Press RETURN to start a new line of text.	
11	Press WIDTH again to turn wide characters off.	A]de -[SLM]
12	Press FONT to select the SS5 font.	A][SLM][SS5]
13	Type "THIS IS SS5". NOTE: Only uppercase character can be used with this font.	A]SS5]THIS IS SS5



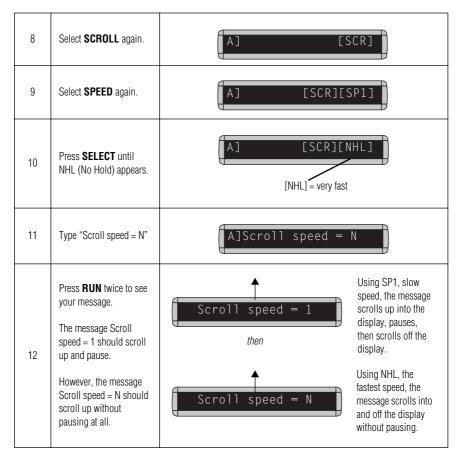
Example 8 — Speeding up and slowing down messages

Messages can be sped up or slowed down using the SPEED mode. Once you pick a mode, such as hold, a speed can be selected by choosing SPEED on the remote control and pressing SELECT to change the speed:

[SP1]	[SP2]	[SP3]	[SP4]	[SP5]	[NHL]
Slowest speed					Fastest speed

Here's an example of how to vary the speed of the **SCROLL** mode of a message.

Step	When you do this	You see this						
1	Delete all the messages currently stored in the display. (See "Clearing a display's memory" on page 8 or "Example 5 — Deleting messages" on page 22.)							
2	Press PROGRAM .	PROG TEXT A						
3	Press ADV .							
4	Select SCROLL . (Hold down SHIFT and press 3 .)	A] [SCR] SCR = Scroll mode, which we'll use to demonstrate message speed.						
5	Select SPEED . (Hold down SHIFT and press 8 .)	A] [SCR][SP4] SP4 is the default speed setting.						
6	Press SELECT until SP1 (very slow) appears.	A] [SCR][SP1] SP1 = very slow						
7	Type "Scroll speed = 1".	A]Scroll speed = 1						



Example 9 — Special effects with modes (Trailing modes)

Modes, like rotate and roll, are used to create special effects with messages. Typically, modes are used once at the beginning of a message for the entire message. However, a mode can also be placed at or toward the end of a message (called a Trailing mode) to create a special effect when the first part of the message is leaving the screen.

NOTE: The following cannot be used as a trailing mode: condensed rotate, scroll, slide, snow, and spray.

Step	When you do this	You see this
1		rently stored in the display. nemory" on page 8 or "Example 5 — Deleting messages" on page 22.)
2	Press PROGRAM .	PROG TEXT A
3	Press ADV.	A]
4	Hold down SHIFT and press 4 for flash.	A][FLS]
5	Type "ATTENTION!".	A] LS]ATTENTION!
6	Hold down SHIFT and press 1 for roll.	A] [RL↑] This is the trailing mode. The roll mode trails the first mode, flash.
7	Type "Trailing mode".	AlTrailing
8	Press RUN twice to see tra	ling mode in action. ATTENTION! should flash and then roll off the display.

Example 10 — International characters

International characters — like \ddot{u} and \acute{e} — can be included in messages.

NOTE: International characters cannot be used with the small (SS5) font.

The following table summarizes all the international characters that can be used.

S	Type a base character, like <i>A</i> . Then press SELECT to choose an international character, like <i>Æ</i> . (Use the CAPS button on the remote control for the lowercase letters.)										
Base Characters	A	С	E	I	N	0	U	Y	?	i	\$
	â	Ç	é	ï	ñ	Ô	ü	ÿ	ż	i	¢
	ä	Ç	ê	î	Ñ	Ö	û	Y	?	!	£
	å	С	ë	Ì	N	Ò	Ü	у			¥
	А	С	è		n	Ö	Ú				f
nal Irs	Å		É	i		Ó	U				\$
International Characters	æ		E			<u>0</u>	u				
Ch	Æ		е			0					
	á					0					
	<u>a</u>										
	А										
	а										

The following example shows how to use international characters in a message.

Step	When you do this	You see this
1	Delete all the messages currently stored in the display. (See "Clearing a display's memory" on page 8 or "Example 5 — Deleting messages" on page 22.)	
2	Press PROGRAM .	PROG TEXT A
3	Press ADV.	
4	Using CAPS and SHIFT when needed, type "Submit your re".	A]Submit your re
5	Press SELECT until <i>é</i> appears.	A]Submit your ré
6	Type "sume".	A] your résume
7	Press SELECT until é appears.	A] your résumé
8	Press RUN twice to see your message.	Submit your résumé

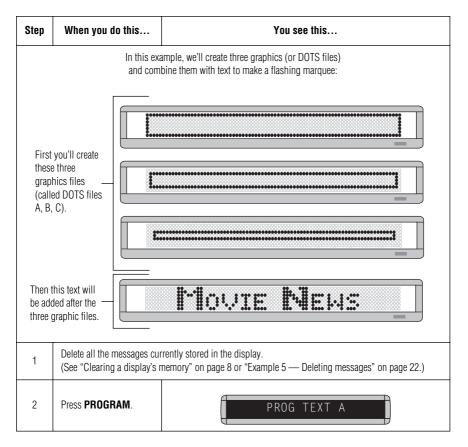
Graphics

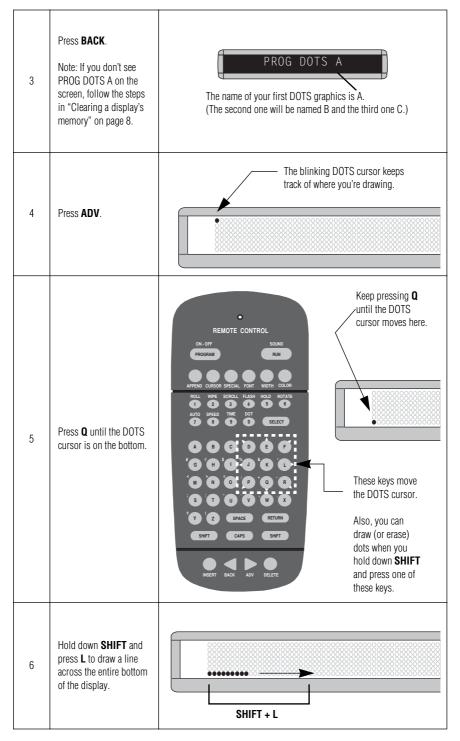
In addition to pre-programmed (or canned) graphics (see "Display graphics" on page 48), you can create your own custom graphics using DOTS files.

You can show a DOTS graphic created either by itself or with text.

NOTE: After you create a DOTS graphic, the DOTS graphic *must* be placed in a text file to show it on your display, even if you just want to show the graphic all by itself.

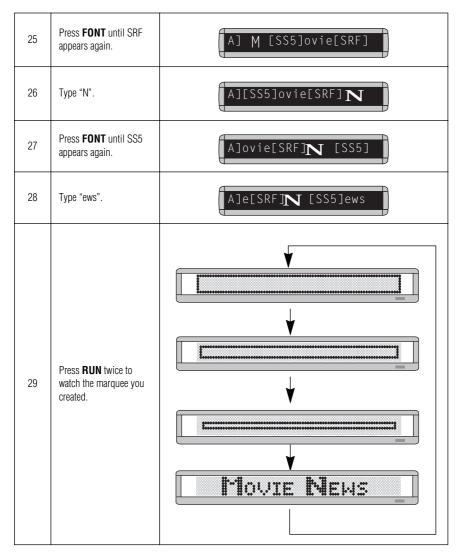
Example 11 — Creating a movie marquee





7	Complete DOTS graphic A by using the E , J , and Q keys. NOTE: Remember to hold down SHIFT with the keys to actually draw.	SHIFT + J SHIFT + Q V SHIFT + E	
8	Press RUN .	END HERE? Y/H	
9	Press Y to save graphic A.	PROG DOTS?	
10	Type "B" as the name of the next graphics file.	PROG DOTS B	
11	Repeat the previous steps to draw graphics B and C. (Both are just smaller versions of graphic A.)	DOTS graphic B	
NOTE: In order to show a DOTS graphic, it must be placed in a text message. In the following steps, we'll create a text message and add the three DOTS graphics just created.			
12	Press BACK to return to PROG TEXT A		
13	Press SELECT until a question mark appears.	PROG TEXT?	
14	Press A .		
15	Hold down SHIFT and press 4 for flash.	A] [FLS]	
16	Hold down SHIFT and press 8 for speed .	A] [FLS][SP4]	

	Press SELECT until	
17	NHL appears. (This is the fastest speed.)	A] [FLS][NHL]
18	Insert the first DOTS graphic you created (file A) by holding down SHIFT and pressing Ø.	A][FLS][NHL][DOT]A The letter A is the name of the graphic file.
19	Insert the second DOTS graphic by holding down SHIFT and pressing Ø again. Then press SELECT until the B appears.	A] [DOT]A Press SELECT. A][NHL][DOT]A[DOT]B
20	Insert the third and final DOTS graphic by holding down SHIFT and pressing Ø again. Then press SELECT until the C appears.	A] [DOT]A Press SELECT. A]A[DOT]B[DOT]C
	Now we'll add	the message "Movie News" after the three graphics:
21	Press FONT until SRF appears.	A][DOT]B[DOT]C[SRF]
22	Туре "М".	A]T]B[DOT]C[SRF] M
23	Press FONT until SS5 appears.	A]DOT]C[SRF] M [SS5] SS5 is the smallest character font.
24	Type "ovie" and then press SPACE .	A]C[SRF] M [SS5]ovie



Example 12 — Mixing text and graphics

In this example, we'll create a graphic and combine it with text.

Step	When you do this	You see this		
	These triangle graphics (which is just a single DOTS file) will be combined with the text Graphics!.			
	V V Graphics!4			
1		rrently stored in the display. memory" on page 8 or "Example 5 — Deleting messages" on page 22.)		
2	Press PROGRAM .	PROG TEXT A		
3	Press BACK .	PROG DOTS A The name of your DOTS graphics file will be A.		
4	Press ADV.	The blinking DOTS cursor keeps track of where you're drawing.		
5	Press X to move a vertical line across the display. This reduces the size of the drawing area. Keep pressing X until there are 5 dots between the vertical line and the end of the display. NOTE: If you don't reduce the graphic area, the graphic will take up the entire area of the display.	W moves this line left (increases drawing area) (reduces drawing area)		

6	Draw the following graphic using the keys indicated. Remember, to just move the cursor, don't hold down SHIFT .	Starting point. SHIFT + F SHIFT + D SHIFT + Q
7	Press RUN twice.	PROG DOTS?
8	Press BACK until PROG TEXT A appears.	PROG TEXT A
9	Press ADV .	A
10	Hold down SHIFT and press 6 for rotate.	A] [ROT]
11	Hold down SHIFT and press Ø to insert your DOTS graphic.	A] [ROT][DOT]A The A is the file name of your DOTS graphic.
12	Using CAPS and SHIFT when necessary, type "Graphics!" (Place a space before "Graphics".)	A]T]A Graphics! Place a space before Graphics! (Otherwise, the first triangle will appear too close.)
13	Hold down SHIFT and press Ø to insert your DOTS graphic again.	A] [DOT]A
14	Press RUN twice to see your graphic and text message move across the display.	Image: Second system NOTE: If you had not placed a space after the st triangle graphic, the message appear like this: Image: Second system Image: Second system Image: Second system Image: Second system

Example 13 — Deleting a graphic

If you want to delete an entire DOTS graphic file, use this example as a guide.

Step	When you do this	You see this		
	This is a continuation of the previous example.			
	This example	This example assumes that the following graphic is in DOTS file A:		
1	Press PROGRAM .	PROG TEXT A		
2	Press BACK .	PROG DOTS A		
3	Press SELECT.	PROG DOTS?		
4	Type the letter of the graphic you want to delete. (In this case, type "A".)			
5	Press Z .	CLEAR DOTS?		
6	Press Y to delete the graphic. (Or N if you don't want to delete it.)			
7	Press RUN four times to return to normal operation. This will run message file A, but the DOTS file A won't show because you just deleted it.	Graphics!		

Appendixes

Appendix A – Modes and fonts available

Modes determine the way text and graphics move on a display. For example, the rotate mode moves a message across a display from right to left. Fonts are the size and shape of text characters.

The letters in brackets — like [AUT] and [SS7] — are what will appear on the display:

Modes available

- Automode [AUT] SHIFT + 7.
- Flash [FLS] SHIFT + 4.
- Hold [HLD] SHIFT + 5.
- Interlock [SPC]3 SPECIAL + 3.
- Roll [RL[↑]] SHIFT + 1. Use SELECT to change roll direction.
- Rotate [ROT] or [CRT] SHIFT + 6. Use SELECT to change between the two.
- Scroll [SCR] SHIFT + 3.
- Slide [SPC]5 SPECIAL + 5.
- Snow [SPC]2 SPECIAL + 2.
- Sparkle [SPC]1 SPECIAL + 1.
- Spray [SPC]6 SPECIAL + 6.
- Starburst [SPC]7 SPECIAL + 7.
- Switch [SPC]4 SPECIAL + 4.
- Twinkle $[SPC]\emptyset$ SPECIAL + \emptyset .
- Wipe [WI[↑]] SHIFT + 2. Use SELECT to change wipe direction.

Fonts available

All these fonts can also be displayed wider using WIDTH:

- 7-row sans serif [SS7]
- 7-row serif [SRF]
- 5-row sans serif [SS5]

Appendix B – Display diagnostic test

Your display can do a self test to determine if all the LEDs (or incandescent lights) are working properly.

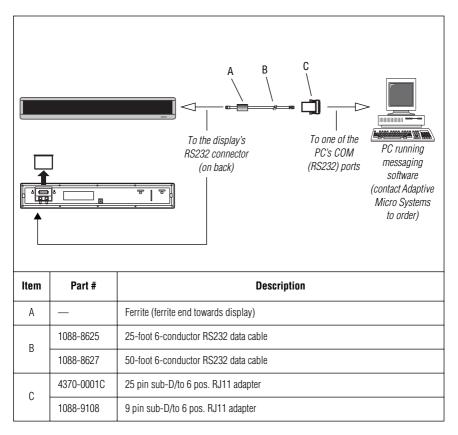
Step	When you do this	You see this
1	Press PROGRAM .	PROG TEXT A
2	Press BACK until <i>S</i> ET TIME AND DAY or SET TIME appears.	SET TIME
3	Press ADV .	SET W/D, H&M then MON 2:29 AM
4	Type "TEST". NOTE: This test deletes all messages in the display. However, if you type "R" immediately after typing "TEST", your messages will be preserved.	then a series of test screens will appear.
5	Press PROGRAM to exit the self-test mode.	PROG TEXT A
6	Press RUN twice to return to normal mode.	

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Appendix C – Connecting a display to a computer

Though messages can be programmed into the display using the hand-held remote control, a more convenient method is to connect the display to a computer and use special software to send messages.

- NOTE: Contact Adaptive Micro Systems to order the software necessary to send messages to a display from your PC.
- NOTE: These displays cannot be networked together. That is, you can connect a single display to a computer, but not multiple displays.



Appendix D – Updating the display's firmware (EPROM)

Your display has an internal chip, or EPROM, that is used to control the display. From time to time, the firmware in this EPROM is updated and the EPROM must be changed.

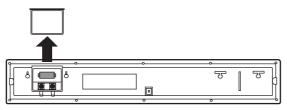
NOTE: Turn off the display's power before continuing.



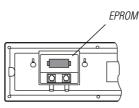
Refer to TechMemo 00-0005 for detailed information and guidelines for avoiding electrostatic discharge damage.

1. After removing power from the display, slide the access panel on the back of the display up:

SENSITIVE DEVICE



2. Using the top and bottom tabs on the EPROM socket, gently pull the EPROM out of the display. Then place the new EPROM in the empty socket and replace the access cover:



Quick Reference Card

Message control keys

	REMOTE CONTROL ON-DFF SOUND FROGRAM RUN ASPEND CURSOR SPECIAL FONT WIDTH COLOR	
	To turn the display on or off, hold down SHIFT and then press PR	DGRAM.
	To enter messages, set the date and time, clear memory (and so on) PROGRAM and then:	, press
	PROG TEXT A	
	OR	
PROGRAM	Press BACK to select one of the following:	Press ADV
	PROG DOTS A — press ADV to create a graphic. SET TIME — press ADV to set the time. SET DATE — press ADV to set the date. SET PASSWORD — press ADV to set a password to prevent someone from changing the display's text. CLEAR MEMORY — press ADV to erase all messages.	to enter a message in file A.
RUN	Press twice to exit PROGRAM mode.	
APPEND	When editing text, takes you to the end of a message.	
CURSOR	Not used.	
SPECIAL	Used to set various text modes. (See "Display modes and special ke	eys" on page 47.)
FONT	Changes the font—[SS7], [SRF], or [SS5]—used in a message. (See "Example 7 — Using fonts" on page 26.)	
WIDTH	Changes the width of a font. Text that appears after [WID] will look to To return to normal text, press WIDTH again and [SLM] will appear. (See "Example 7 — Using fonts" on page 26.)	

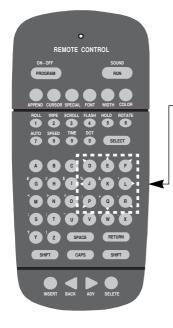
Display modes and special keys

	APPEND CURSOR SPECIAL FONT WIDTH COLOR ROLL WIPE SCROLL FLASH HOLD ROTATE 1 2 3 4 6 6 0 AUTO SPEED TIME DOT 7 6 0 5 6 0 SELECT
ROLL	Hold down SHIFT and press 1 to use the roll mode in a message. Use SELECT to change the direction of the roll.
WIPE	Hold down SHIFT and press 2 to use the wipe mode in a message. Use SELECT to change the direction of the wipe.
SCROLL	Hold down SHIFT and press 3 to use the scroll mode in a message.
FLASH	Hold down SHIFT and press 4 to use the flash mode in a message.
HOLD	Hold down SHIFT and press 5 to use the hold mode in a message.
ROTATE	Hold down SHIFT and press 6 to use the rotate mode in a message.
AUTO	Hold down SHIFT and press 7 to use the auto mode in a message.
SPEED	Hold down SHIFT and press 8 to use the speed mode in a message. Use SELECT to set the speed (NHL = fastest, SP1 = slowest).
TIME	Hold down SHIFT and press 9 to include the time in a message.
Date	Press SPECIAL and then M to include the date in a message.
Twinkle	Press SPECIAL. Then press Ø.
Sparkle	Press SPECIAL. Then press 1.
Snow	Press SPECIAL. Then press 2.
Interlock	Press SPECIAL. Then press 3.
Switch	Press SPECIAL. Then press 4.
Slide Across	Press SPECIAL. Then press 5.
Spray	Press SPECIAL. Then press 6.
Starburst	Press SPECIAL. Then press 7.
Carriage return	Press RETURN.
Half space	Hold down SHIFT and then press SPACE .

Display graphics

"Thank You"	Press SPECIAL. Then press S.
"No Smoking"	Press SPECIAL. Then press U.
"Don't Drink and Drive"	Press SPECIAL. Then press V.
Running Animal	Press SPECIAL. Then press W.
Fireworks	Press SPECIAL. Then press X.
Turbo Car	Press SPECIAL . Then press Y .
Cherry Bomb	Press SPECIAL. Then press Z.
Welcome	Press SPECIAL. Then press 8.
Slot Machine	Press SPECIAL. Then press 9.

How to create a graphic



1 Press **PROGRAM** and then **BACK**:



- 2 Next, press **ADV**. The DOTS cursor will be in the upper left hand corner of the display.
- 3 Use the direction keys (**D**, **E**, **F**, and so on) to move the DOTS cursor in the direction indicated by the white arrows.
- 4 To draw a line, hold down SHIFT while pressing one of the direction keys. For example, to draw a diagonal line, hold down the SHIFT while pressing R.
- 5 When you're done, press **RUN** twice.
- 6 Press BACK until this screen appears:



7 Press SELECT and then a letter, like A:



8 Enter the DOTS file. For example, hold down **SHIFT** and press **6** for rotate. Then hold down **SHIFT** and press **Ø** for DOT:



9 Press **RUN** twice to show the graphic.