BETAbrite® Window Display User Manual





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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 a BETAbrite 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 42.)

Using a Remote Control to operate your display

A Remote Control is a hand-held keyboard used to operate a BETAbrite 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 the display's 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.



If a display is this far from the floor	then hold a Remote Control this far <i>away</i> :
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 a software application, **BetaBrite Messaging Software**, to send messages to the BETAbrite Window Display. Refer to 9701-0202, Messaging Software User Manual, for instructions for sending messages using this software.

Basic display operation

Turning a display off and on

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

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

Holding down SHIFT and then pressing PROGRAM turns a display off and on.

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

When the display starts up, the following will be shown:



Setting a display's time and date

The display must be initially programmed for time and date, and occasionally you may want to re-program the display.

Once set, the BETAbrite 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 then DEC. 31,1999
7	Press D to set the correct 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, 2000 or 1/26/00, or 26/1/00, etc.	JAN. 1,2000
8	After setting the date and time, press RUN twice to return to normal operation.	

Clearing a display's memory

NOTE: Clearing a display's memory erases <u>all</u> messages, graphics, and the password 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
4	Press Y to clear the display's memory. The display will return to normal operation and show this screen.	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 won't be able to operate the display.

However, *if you do forget the password*, see "What to do when you forget a password" on page 8.

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/N
4	Press Y to set a password.	ENTER 6 CHAR'S
	Type a 6-character password. (Only asterisks will appear on the display as you type.)	***** then
	Re-type the password when prompted.	RE-ENTER THE 6
5		***** then
	CORRECT will appear if you entered the same password.	
	If you failed to type the same password, ERROR will appear, and you'll have to start over from Step 1.	PROG TEXT A
6	Press RUN twice.	PASSWORD RUN? Y/N

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



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	Enter a new password. (See "Setting a display's password" on page 7.)	

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 6.

Basic text messaging

This section shows you how to start creating messages on your display.

Example 1 — Using upper and lowercase in messages

In this first example, you'll show the text *THIS IS YOUR FIRST MESSAGE* like this:



... and then the text *This is your second message*:



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, etc.)

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, etc.) or in alphabetical order.

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



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 <u>exact</u> 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 this	In this example, we'll program the display to show File A on Monday through Friday from 1:10 PM to 2:30 PM. We'll program the display to always show File B.		
1	Press PROGRAM .	PROG TEXT A	
2	Press SELECT until <i>B</i> appears.	PROG TEXT B	
3	Hold down SHIFT and press 9 for TIME .	B ON ALWAYS Since file B is already set up, we'll go on to file A.	
4	Press PROGRAM .	PROG TEXT B	
5	Press SELECT until <i>A</i> appears.	PROG TEXT A	

6	Hold down SHIFT and press 9 for TIME .	A ON ALWAYS First, we'll select the <i>ON</i> time or when the message <u>starts</u> .
7	Press D (for day) until <i>M-F</i> (Monday through Friday) appears.	A ON M-F 0:00 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, etc.
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 or when the message <u>stops</u> .
11	Repeat Steps 7, 8, and/or 9 to set the <i>OFF</i> 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 is shown. 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 <i>B</i> appears.	PROG TEXT B
3	Press ADV until the space after <i>your</i> appears.	B] This is your We're going to delete <i>your</i> and replace it with <i>the</i> .
4	Press DELETE until <i>your</i> (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 <i>the</i> (and then 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 <u>all</u> the messages in a display, see "Clearing a display's memory" on page 6.

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 = <i>THIS IS YOUR FIRST MESSAGE, BUT NOW IT'S LONGER.</i> File B = <i>This is the second message.</i> In this example, we'll delete File B.				
1	Press PROGRAM .	PROG TEXT A			
2	Press SELECT until <i>B</i> 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.	THIS IS YOUR then FIRST MESSAGE then BUT NOW IT'S then 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



6	Press SELECT to change the Roll direction to ↓ (down).	A $[RL\downarrow]$ 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	Type <i>R</i>	A] [RL↓]R			
89	Using CAPS to switch between uppercase and lowercase letters, type the following: <i>osco Advertising</i>	o switch case and ers, type [A]o Advertising			
	We'll Roll the time in from the bottom to the top of the display.				
9	Hold down SHIFT and press 1 for ROLL .	A] [RLÎ]			
10	Press WIDTH to show the time in wide characters.	A] [RL1][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 <u>date</u> roll to the left.			
13	Press WIDTH to turn off wide characters.	[SLM] means the following characters won't be wide.			

14	Press SPECIAL.	SPECIAL [RL←][SLM]
15	Press M	A]Jan. 1, 2000 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. 1, 2000

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 (like 12 point or 14 point), bold or italic, etc.

This is Times — a serif font.

This is Helvetica — a sans serif font.

On this display, the following fonts — called [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 40.

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

Step	When you do this	You see this
1	Delete all the messages cur (See "Clearing a display's r	rrently stored in the display. nemory" on page 6 or "Example 5 — Deleting messages" on page 20.)
2	Press PROGRAM .	PROG TEXT A
3	Press ADV.	

4	Hold down SHIFT and press 5 for 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 <i>This</i> <i>is SRF</i>	A] his is SRF As you type, the font you selected will appear as it will actually be shown on the display.
7	Press RETURN to start a new line of text.	Alhis is SRF J This symbol indicates RETURN.
8	Press WIDTH to show wide text.	A]RF + [WID] [WID] = wide text
9	Using CAPS and SHIFT when needed, type <i>SRF</i> <i>Wide</i>	AlWide
10	Press RETURN to start a new line of text.	
11	Press WIDTH again to turn wide characters off.	
12	Press FONT to select the <i>[SS5]</i> font.	A][SLM][SS5]
13	Type <i>THIS IS SS5</i> NOTE: Only uppercase character can be used with this font.	AJSS5JTHIS 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, like **HOLD**, a speed can be selected by selecting **SPEED** on the Remote Control. Then press **SELECT** to change the 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 cur (See "Clearing a display's r	rrently stored in the display. memory" on page 6 or "Example 5 — Deleting messages" on page 20.)		
2	Press PROGRAM .	PROG TEXT A		
3	Press ADV .	[A]		
4	Select SCROLL . (Hold down SHIFT and press 3 .)	[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 <i>[SP1]</i> (very slow) appears.	A] [SCR][SP1] [SP1] = very slow		
7	Type <i>Scroll speed</i> = 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 <u>beginning</u> 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 can <u>not</u> be used as a trailing mode: CONDENSED ROTATE, SCROLL, SLIDE, SNOW, and SPRAY.

Step	When you do this	You see this
1	Delete all the messages cu (See "Clearing a display's r	rrently stored in the display. nemory" on page 6 or "Example 5 — Deleting messages" on page 20.)
2	Press PROGRAM .	PROG TEXT A
3	Press ADV .	
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	A]Trailing mode
8	Press RUN twice to see tra	iling mode in action. <i>ATTENTION!</i> should flash and then roll off the display.

Example 10 — International characters

International characters — like ü and é — can be included in messages.

NOTE: International characters can <u>not</u> be used with the small [SS5] font.

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

			A					Type a Ba Then pre an intern	ase Char ss SELE ational c	acter, like CT to ch haracter,	e A. oose like Æ.
ie cters	(Use tl	ne CAPS	button (on the Re	emote Co	ntrol for	the lowe	rcase let	ters.)		
Bas Charao	A	С	E	I	Ν	0	U	Y	?	!	\$
	â	Ç	é	ï	ñ	Ô	ü	ÿ	i	i	¢
	ä	Ç	ê	î	Ñ	Ö	û	Y	?	!	£
	å	С	ë	Ì	Ν	Ò	Ü	у			¥
	A	C	è	I	n	Ö	ú				f
nal rs	Å		É	i		Ó	U				\$
ernatio	æ		E			<u>0</u>	u				
Inte	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 6 or "Example 5 — Deleting messages" on page 20.)	

2	Press PROGRAM .	PROG TEXT A
3	Press ADV .	[A]
4	Using CAPS and SHIFT when needed, type <i>Submit your re</i>	A]Submit your re
5	Press SELECT until <i>é</i> appears.	A]Submit your ré
6	Type <i>sume</i>	A] your résume
7	Press SELECT until <i>é</i> 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 46), you can create your own custom graphics using DOTS files.

You can show a DOTS graphic that you create either by itself or with text.

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

Example 11 — Creating a movie marquee







17	Press SELECT until [<i>NHL</i>] 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 letter <i>B</i> 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 letter <i>C</i> appears.	A] [DOT]A Press SELECT. ↓ A]A[DOT]B[DOT]C
	Now we'll ad	d the message <i>Movie News</i> after the three graphics:
21	Press FONT until <i>[SRF]</i> appears.	A][DOT]B[DOT]C[SRF]
22	Type the letter <i>M</i>	A]T]B[DOT]C[SRF] M
23	Press FONT until <i>[SS5]</i> appears.	A]DOT]C[SRF]]M[SS5] [SS5] is the <u>smallest</u> character font.
24	Type <i>ovie</i> and then press SPACE .	A]C[SRF]



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 <i>Graphics</i> !				
		♥ ♥ 《Graphics!《			
1	Delete all the messages cu (See "Clearing a display's r	rrently stored in the display. nemory" on page 6 or "Example 5 — Deleting messages" on page 20.)			
2	Press PROGRAM.				
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 would take up the entire area of the display.	W moves this line left (increases drawing area) X moves this line right (reduces drawing area) The line should end up 5 dots from the end. So our drawing area will be 5 dots wide by 7 dots high.			

6	Draw the following graphic using the keys indicated.	Starting point Starting point Remember: To just move the cursor, don't hold down SHIFT.	
7	Press RUN twice.	PROG DOTS?	
8	Press BACK until <i>PROG</i> <i>TEXT A</i> 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 <i>Graphics!</i> (Place a space before	A]T]A Graphics! Place a space before the word <i>Graphics</i> !	
	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 first triangle graphic, the message would look like the following: Image:	

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 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 <i>A</i> .)		
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 <i>four</i> 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>SET</i> <i>TIME AND DAY</i> or <i>SET</i> <i>TIME</i> appears.	SET TIME
3	Press ADV .	SET W/D, H&M then MON 2:29 AM
4	Type <i>TEST</i> NOTE: This test <u>deletes</u> all messages in the display. However, if you type the letter <i>R</i> immediately after typing <i>TEST</i> , 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.

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



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				
PROGRAM	To turn the display on or off, hold down SHIFT and then press PRO To enter messages, set the date and time, clear memory, etc., press F then: PROG TEXT A OR Press BACK to select one of the following: PROG DOTS A — press ADV to create a graphic. SET TIME — press ADV to set the time. SET DATE — press ADV to set the time. SET DATE — press ADV to set the date. SET DATE — press ADV to set the date.	GRAM. PROGRAM and Press ADV to enter a message in file A.		
DIN	prevent someone from changing the display's text. CLEAR MEMORY — press ADV to erase all messages.			
NUN				
APPEND	When editing text, this takes you to the end of a message.			
CURSOR	Not used.			
SPECIAL	Used to set various text modes. (See "Display modes and special key	/s" on page 45.)		
FONT	Changes the font—[SS7], [SRF], or [SS5]—used in a message. (See "Example 7 — Using fonts" on page 24.)			
WIDTH	Changes the width of a font. Text that appears after [WID] will look be To return to normal text, press WIDTH again and [SLM] will appear. (See "Example 7 — Using fonts" on page 24.)	old.		

Display modes and special keys

	APPEND CORSUN SPECIAL PUNI WILH COLON ROLL WIPE SCROLL FLASH HOLD ROTATE 1 0 0 0 0 0 0 0 0 0 0 AUTO SPEED TWE DOT 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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**, etc.) 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:

A٦





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