

# Programming Manual





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#### WARNING FOR EUROPEAN USERS

This is a class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

## General information

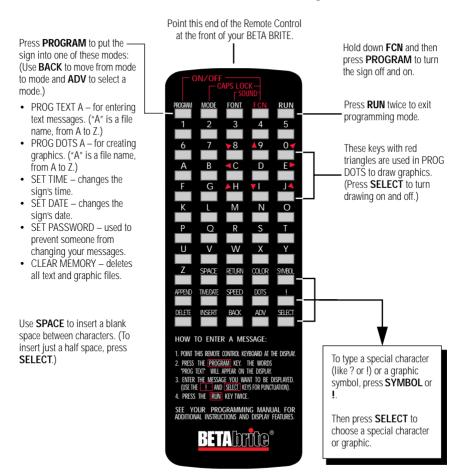
You can operate a BETA BRITE sign in two ways:

- · by using a hand-held Remote Control
- by using personal computer

## Using a Remote Control to operate your sign

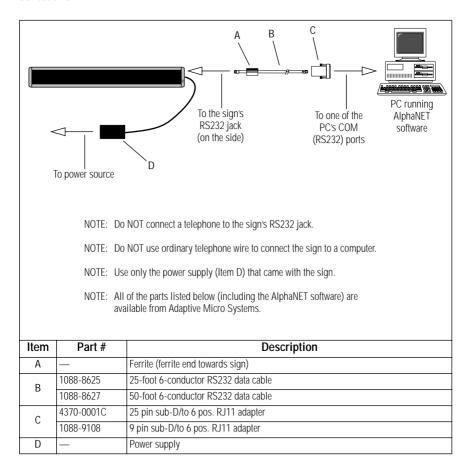
A Remote Control is a hand-held keyboard used to operate a BETA BRITE sign. Most of this manual shows you how to program messages on your sign using a Remote Control.

A Remote Control needs two AA batteries to operate.



## Using a computer to operate your sign

Though messages can be programmed into the sign using the handheld Remote Control, messages can also be sent to the sign using a computer. To do this, you'll need special connectors and computer software:



NOTE: This manual shows you how to send messages to your sign with the Remote Control.

The manual that comes with the AlphaNET software shows you how to send messages to your sign with a computer.

## Attaching your sign to a surface

Your sign can be mounted on a wall, ceiling, or counter.

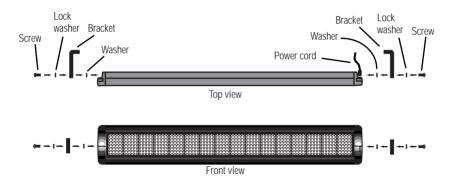
NOTE: This sign is intended for **indoor** use only.

NOTE: • Do not mount or attach the power supply to anything.

- Do not let the power supply hang loose.
- Place the power supply on a flat surface where no chemicals or liquid, such as water, will contact it.
- Plug the power supply into an easily-accessible electrical outlet no further than 15 feet away from the sign.

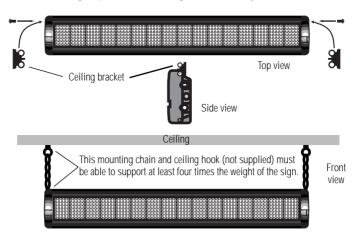
#### Wall mount

- 1. Attach the mounting brackets to the wall or surface, 24 5/8 inches (62.7 cm) on center.
- 2. Attach the sign to mounting brackets using hardware as shown.
- 3. Plug the power cord into the sign and into an outlet.



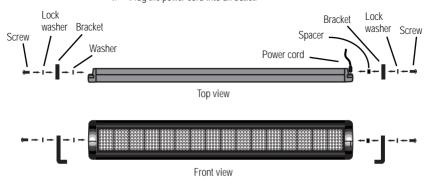
#### Ceiling mount

- Attach the ceiling brackets to the sign using the screws supplied.
- Hang the sign from the ceiling using mounting chains and ceiling hooks (not supplied). The chains and hooks must be able to support at least four times the weight of the sign.
- 3. Plug the power cord into the sign and into a nearby outlet.



#### Counter mount

- Attach the mounting brackets to the counter, 24 5/8 inches (62.7 cm) on center.
- 2. Plug the power cord into the sign.
- Attach the sign to mounting brackets using hardware as shown. NOTE: On the end with the power cord, use the spacer proviced, not a washer.
- 4. Plug the power cord into an outlet.



## Technical specifications

Weight (without power supply or keyboard):	2.55 pounds (1.16 kg)
Height:	3 13/16 inches (9.7 cm)
Length:	25 7/8 inches (65.7 cm)
Depth:	1 15/16 (3.4 cm)
Power:	7.5 VDC at 3.25A
Environmental requirements:	The display should be operated in an environment where the temperature is between 0° C and 45° C, and the humidity (non-condensing) does not exceed 95%.

#### EMI information

Electromagnetic interference (EMI) information follows:

#### United States

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference. (2) This device must accept any interference received, including interference that may cause undesired operation.

#### Canada

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numerique de la class A respecte toutes les exigences du Regement sur le material broullieur du Canada.

# Basic sign operation

## Turning a sign on and off

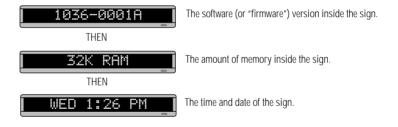
When you plug in the sign's power supply, the sign starts up automatically, and unplugging the power supply turns the sign off.

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

Holding down FCN and then press PROGRAM turns a sign off and on.

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

When a signs starts up, the following will be displayed:



## Setting a sign's time and date

Once set, a sign will remember the time and date unless the sign is unplugged or interrupted by a power loss.

NOTE: Because the time and date are not updated when the sign is off, the time and date must be re-programmed <u>each</u> time the sign is turned off and on.

Step	When you do this	You see this
1	Press <b>PROGRAM</b> .	PROG TEXT A
2	Press <b>BACK</b> until <i>SET TIME</i> appears.	SET TIME
3	Press <b>ADV</b> .	SET W/D ,H&M THEN MON 2:29 AM
4	Press <b>D</b> to set the day of the week.  Press <b>H</b> to set the hour.  Press <b>M</b> to set the minute.  NOTE:Press <b>SELECT</b> , to change from 12-hour (AM/PM) to 24-hour mode (0 - 23).	TUE 11:21 AM
5	Press <b>BACK</b> until <i>SET DATE</i> appears.	SET DATE
6	Press <b>ADV</b> .	SET WITH D,M,&Y  THEN  JAN. 1 ,1998
7	Press <b>D</b> to set the day.  Press <b>M</b> to set the month.  Press <b>Y</b> to set the year.  NOTE:Press <b>SELECT</b> to display the date in different formats—for example, <i>JAN 26</i> , 1998 or 1/26/98, or 26/1/98, etc.	OCT. 14 ,1998_
8	After setting the date and time, press <b>RUN</b> twice to r NOTE:Date and Time will not appear on the screen at	·

## Clearing a sign's memory

Clearing a sign's memory erases <u>all</u> messages and graphics that have been programmed into the sign — also, the sign's password (if any) will be deleted.

Step	When you do this	You see this
1	Press <b>PROGRAM</b> .	PROG TEXT A
2	Press <b>BACK</b> until <i>CLEAR MEMORY</i> appears.	CLEAR MEMORY
3	Press <b>ADV</b> .	WARNING! THEN CLEAR ALL? Y/N_
4	Press <b>Y</b> to clear the sign's memory. The sign will ret messages.	urn to normal operation and display a series of demo

## Setting a sign's password

You can set a personal password to protect your messages and graphics from tampering by others.

If you forget the password, see "What to do when you forget a sign's password" on page 10.

Step	When you do this	You see this
1	Press <b>PROGRAM</b> .	PROG TEXT A
2	Press <b>BACK</b> until <i>SET PASSWORD</i> appears.	SET PASSWORD
3	Press <b>ADV</b> .	SET PASSWORD? Y/N
4	Press <b>Y</b> to set a password.	ENTER 6 CHAR'S
	Type a 6-character password. (Only asterisks will appear on the sign as you type.)	solotokok
5	Re-type the password when prompted.	RE-ENTER THE 6 THEN ******
	CORRECT will appear if you entered the same password.	THEN  CORRECT  THEN
	If you failed to type the same password, <i>ERROR</i> will appear, and you'll have to start over from Step 1.	PROG TEXT A
6	Press RUN twice.	PASSWORD RUN? Y/N
	Press <b>Y</b> to password protect the sign.	SECURE
7	NOTE:If you select <b>N</b> , then a password will not be needed when you press <b>PROGRAM</b> .	The sign will return to normal operation.  Now, whenever you press <b>PROGRAM</b> , you'll have to type the password you just entered.

## What to do when you forget a sign's password

Step	When you do this	You see this
1	Press <b>PROGRAM</b> .	ENTER PASSWORD
2	Press L six times.	CORRECT
		PROG TEXT A
3	Enter a new password. (See "Setting a sign's passwo	ord" on page 9.)

#### How to delete a sign's password

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

#### Sound control

Normally, when you press a Remote Control key while programming a sign, the sign will beep.

If you want to turn the beeping off, hold down FCN and then press FONT. (To turn the beeping on again, repeat this.)

# Beginning text messaging

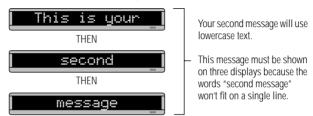
This section shows you how to start creating messages on your sign.

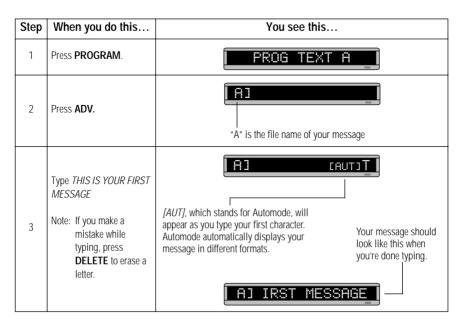
## Example 1 — Using upper and lowercase in messages

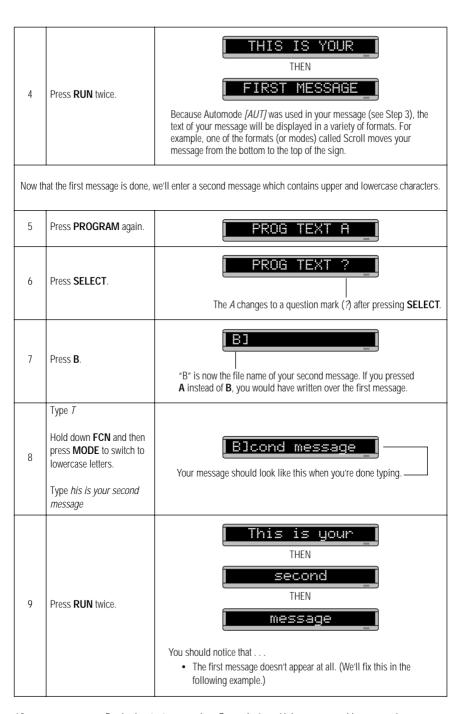
In this first example, you'll display the text *THIS IS YOUR FIRST MESSAGE* like this:



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





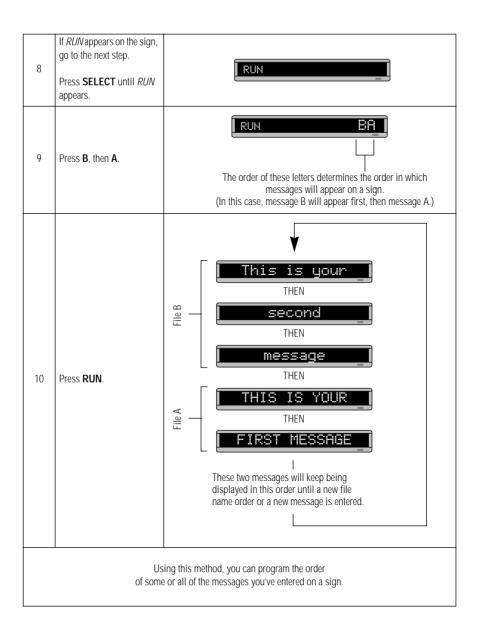


## Example 2 — Displaying messages in file name order (A, B, C, etc.)

Once you've programmed messages into the sign, you may want to set the order or sequence in which messages appear.

In this example, we'll display 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 sign:  File A = THIS IS YOUR FIRST MESSAGE  File B = This is your second message		
1	Press <b>PROGRAM</b> .	PROG TEXT B	
2	Press <b>RUN</b> .	RUN  TIME or DEMO may also appear here.	
3	If <i>RUN</i> appears on the sign, go to the next step.  Otherwise, press <b>SELECT</b> until <i>RUN</i> appears.	RUN	
4	Press <b>B</b> .	RUN B	
5	Press RUN.	This is your  THEN  Second  THEN  Message	
	You have just programmed the sign to run <i>only</i> message file B.  Next, we'll program the sign to display message B <i>and</i> then message A.		
6	Press <b>PROGRAM</b> .	PROG TEXT A	
7	Press RUN.	RUN	

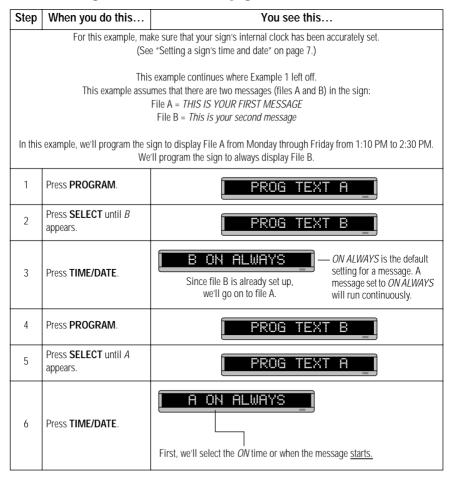


## Example 3 — Displaying messages in time order

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.

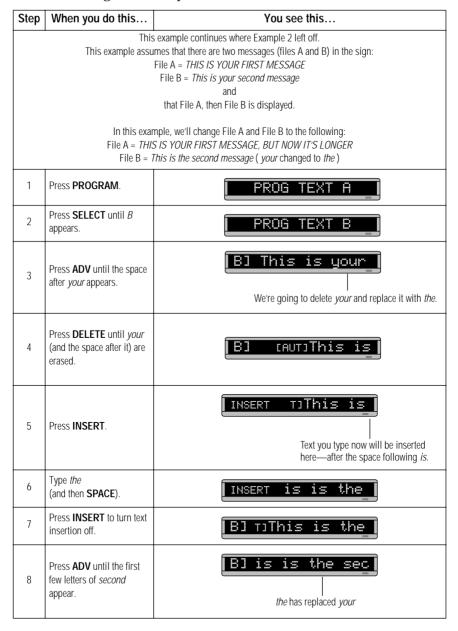
NOTE: Displaying messages in time order will work only as long as the sign has power. When your sign loses power, its internal clock becomes inaccurate and must be reset (see "Setting a sign's time and date" on page 7).



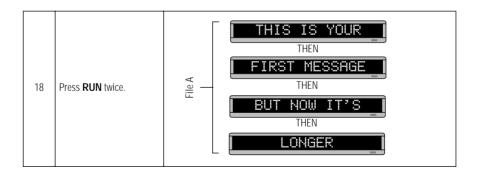
7	Press <b>D</b> (for day) until <i>M-F</i> (Monday through Friday) appears.	Press <b>D</b> to set the day, <b>H</b> for hour, and <b>M</b> for minute (in 10-minute increments).
		A ON M-F 13:00
8	Press <b>H</b> (for hour) until	11 011 11 13.00
	13:00 appears.	Hours must be represented in 24-hour or military style. So 1:00 PM = 13:00, 2:00 PM = 14:00, etc.
	Press <b>M</b> (for minute) until	A ON M-F 13:10
9	13:10 appears.	Minutes are set in increments of 10.
10	Press SELECT.	A OFF M-F 0:00
		After setting the <i>ON</i> time, select the <i>OFF</i> time or when the message <u>stops</u> .
11	Repeat Steps 7, 8, and 9 to s	set the <i>OFF</i> time (2:30 or 14:30 in this example.)
	Press <b>RUN</b> once. (If <b>TIME</b> does not appear,	TIME
12	press SELECT until it does.)	RUN or DEMO may also appear here.
13	Press <b>AB</b> .	TIME AB_
		This is your
	Press <b>RUN</b> once.	This message THEN
		should appear continuously.
14		message
		THEN
		This message should only
		appear between the ON and OFF times you set.
		umos you set.

## 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:



9	Press <b>APPEND</b> to go to the end of the message.  DON'T OMIT THIS STEP. If you do, the last part of the	B] cond message	
	message will be automatically deleted.		
10	Press <b>RUN</b> twice.	This is the THEN Second THEN message	
	Next, we'll add text to the end of File A.		
11	Press <b>PROGRAM</b> .	PROG TEXT B	
12	Press <b>SELECT</b> until <i>A</i> appears on the sign.	PROG TEXT A	
13	Press <b>APPEND</b> .	APPEND takes you to the end of a message.	
14	To type a comma, press ! and then <b>SELECT</b> until a comma appears.	AJIRST MESSAGE,	
15	Press <b>SPACE</b> and then type <i>BUT NOW IT</i> .	AJE, BUT NOW IT	
16	Press ! and then SELECT until an apostrophe appears.	A], BUT NOW IT'	
17	Type S LONGER.	AJ W IT'S LONGER	



## Example 5 — Deleting messages

To delete  $\underline{all}$  the messages in a sign, see "Clearing a sign's memory" on page 8.

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

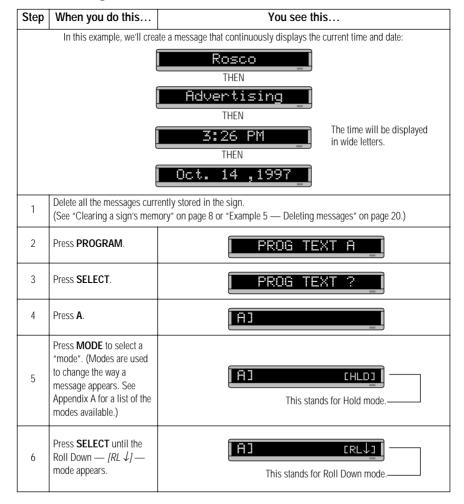
Step	When you do this	You see this	
	This example continues where Example 4 left off.  This example assumes that there are two messages (files A and B) in the sign:  File A = THIS IS YOUR FIRST MESSAGE, BUT NOW IT'S LONGER  File B = This is the second message  In this example, we'll delete File B.		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

# Advanced text messaging

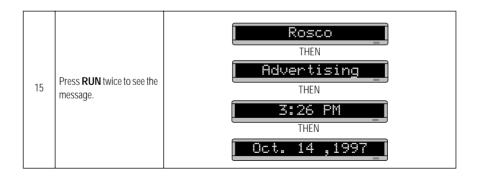
Before attempting the following, make sure you're familiar with the previous examples in the "Beginning text messaging" section of this manual

## Example 6 — Displaying the time and date

NOTE: Because the time and date are not updated when the sign is off, the time and date must be re-programmed <u>each</u> time the sign is turned off and on.



7	Type R	A) CRLVIR
8	Hold down FCN and then press MODE to switch between uppercase and lowercase letters, type the following:	Alo Advertising
	osco Advertising	
	We'll Roll	I the time in from the bottom to the top of the sign.
9	Press MODE and then SELECT until the Roll Up mode appears: [RL 1]	A] (RL^)
10	Press <b>FONT</b> and then <b>SELECT</b> until [WD7] appears.	[WD7] means that the time will be displayed in wide letters.
11	Press <b>TIME/DATE</b> to include the time in the message.	This inserts the current time (in wide characters).
Next, we'll Roll the date in from the left to the right of the sign.  NOTE: Make sure that the date is set correctly before using the date in a message.  (See "Setting a sign's time and date" on page 7.)		
12	Press <b>MODE</b> and then <b>SELECT</b> until the Roll Left mode appears: [RL ←]	We'll make the <u>date</u> will roll to the left.
13	Press FONT and then SELECT until [SS7] appears.	[A] [RL←][SS7]
	([SS7] is the default or normal font.)	[SS7] means the following characters won't be wide.
14	Press <b>TIME/DATE</b> and then <b>SELECT</b> to display the date.	A] CT. 14 ,1997



## Example 7 — Using fonts and colors

#### Fonts

Fonts are the way characters are displayed on a sign. 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.

The fonts available for your sign are in "Appendix A — Modes, fonts, colors, and graphics available" on page 40.

#### Colors

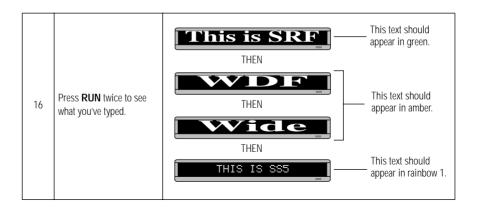
Your sign can display up to eight colors — [GRN] for green, [RED] for red, etc. — plus four special color combinations.

To determine what colors are available on your sign, see "Appendix A — Modes, fonts, colors, and graphics available" on page 40.

The following examples demonstrate how to use fonts and colors on your sign:

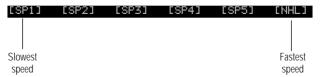
Step	When you do this	You see this
1	Delete all the messages currently stored in the sign. (See "Clearing a sign's memory" on page 8 or "Example 5 — Deleting messages" on page 20.)	
2	Press <b>PROGRAM</b> .	PROG TEXT A
3	Press <b>ADV</b> .	[A]
4	Press <b>MODE</b> until [HLD] appears.	Hold mode turns off Automode.
5	Press COLOR and then SELECT until [GRN] (green) appears.	We'll make the first part of the message appear in green.

6	Press <b>FONT</b> and then <b>SELECT</b> to select <i>[SRF]</i> (a serif font).	A] [HLD][GRN][SRF]
7	Using FCN and PROGRAM when needed, type This is SRF	As you type, the font you selected will appear as it will actually be displayed on the sign.
8	Press <b>RETURN</b> to start a new line of text.	This symbol indicates RETURN.
9	Press <b>COLOR</b> and then <b>SELECT</b> until [AMB] appears.	All the text after [AMB] will be amber colored.
10	Press FONT and then SELECT until [WDF] (wide text) appears.	#IRF↓ [AMB][WDF] = wide serif font
11	Using FCN and MODE when needed, type WDF Wide	Wide
12	Press <b>RETURN</b> to start a new line of text.	MWide
13	Press COLOR and SELECT until [RB1] (Rainbow 1) appears.	Alde J (RB1)
14	Press FONT and then SELECT to select the [SS5] font.	[SS5] = the smallest font
15	Type THIS IS SS5  NOTE:Only uppercase character can be used with this font.	A] [SS5]THIS IS SS5_

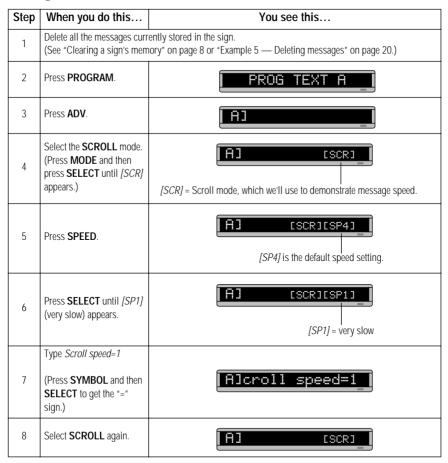


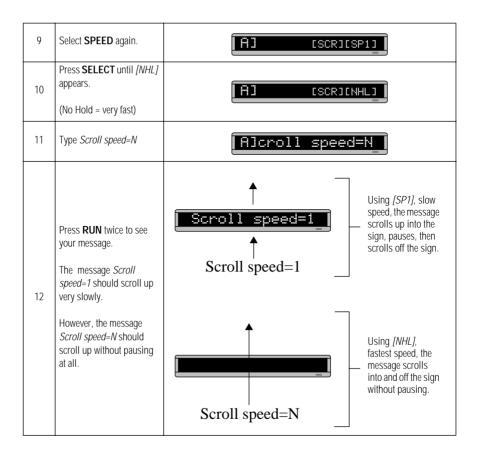
## Example 8 — Speeding up and slowing down messages

Messages can be speeded up or slowed down using the SPEED mode. Once you pick a mode, like ROTATE, 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:





## 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. However, a mode can also be placed at the end of a message (called a "trailing mode") to create a special effect.

NOTE: The following can <u>not</u> be used as a trailing mode: CONDENSED ROTATE, SCROLL, SLIDE, SNOW, and SPRAY.

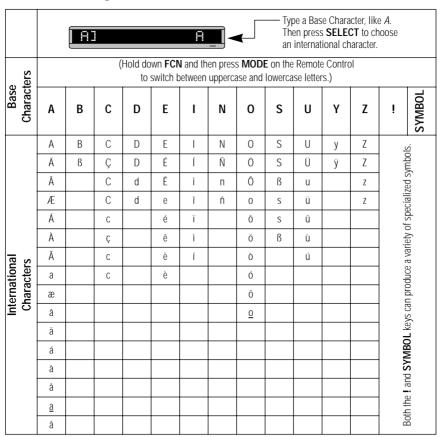
Step	When you do this	You see this
1	Delete all the messages currently stored in the sign. (See "Clearing a sign's memory" on page 8 or "Example 5 — Deleting messages" on page 20.)	
2	Press <b>PROGRAM</b> .	PROG TEXT A
3	Press <b>ADV</b> .	Al
4	Press MODE and then SELECT until [FLS] (Flash) appears	A] (FLS)
5	Type ATTENTION!  (Press ! and then SELECT to get "!")	A] LSJATTENTION!
6	Press <b>MODE</b> and then <b>SELECT</b> until [RF-1] (Roll Up) appears.	This is the trailing mode. The Roll mode "trails" the first mode, Flash.
7	Type <i>Trailing mode</i>	AlTrailing mode
8	Press <b>RUN</b> twice to see trailing mode in action. <i>ATTENTION!</i> should flash and then roll off the display followed by <i>Trailing mode</i> .	

## Example 10 — International characters

International characters — like ü and é — can be included in messages. Also, the ! and SYMBOL keys can produce special characters (see "Using a Remote Control to operate your sign" on page 1).

NOTE: International characters can not be used with the small fonts (like [SS5]).

The following international characters can be used:



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 sign. (See "Clearing a sign's memory" on page 8 or "Example 5 — Deleting messages" on page 20.)	

2	Press <b>PROGRAM</b> .	PROG TEXT A
3	Press <b>ADV</b> .	Al
4	Using FCN and MODE when needed, type Submit your re	Alubmit your re
5	Press <b>SELECT</b> until <i>é</i> appears.	Alubmit your ré
6	Type sume	Al your résume
7	Press <b>SELECT</b> until <i>é</i> appears.	Al your résumé
8	Press RUN twice to see your message.	

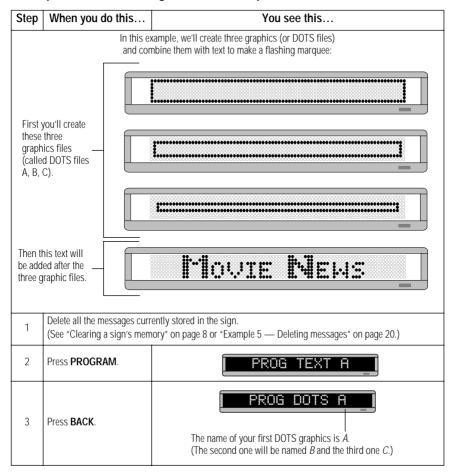
# **Graphics**

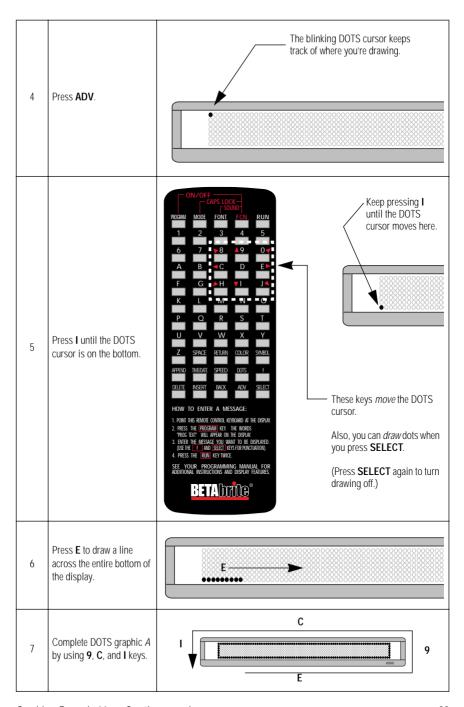
In addition to pre-programmed or "canned" graphics (see "Graphics available:" on page 44), you can create your own custom graphics using DOTS files.

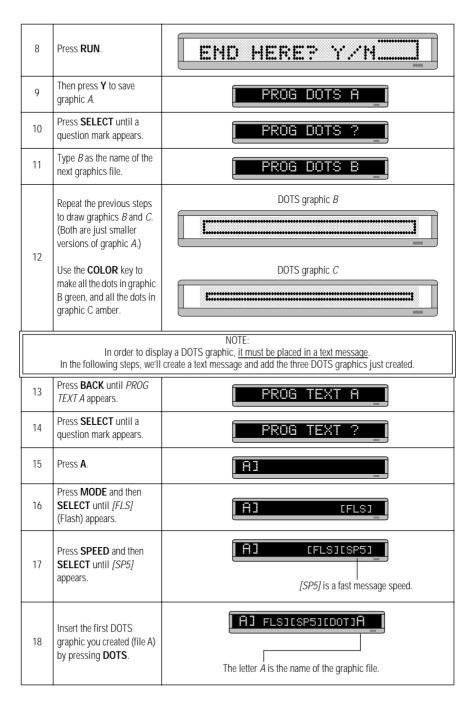
You can display a DOTS graphic that you create either by itself or with text

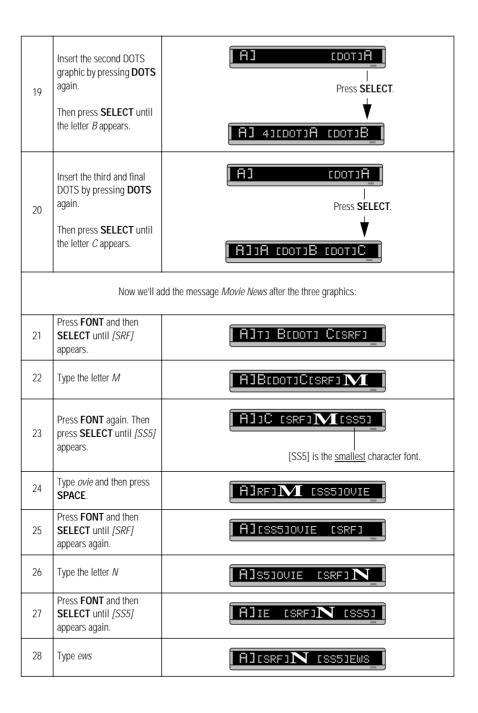
NOTE: After you create a DOTS graphic, *to display it on your sign*, the DOTS graphic *must* be placed in a text file—even if you just want to display the graphic all by itself.

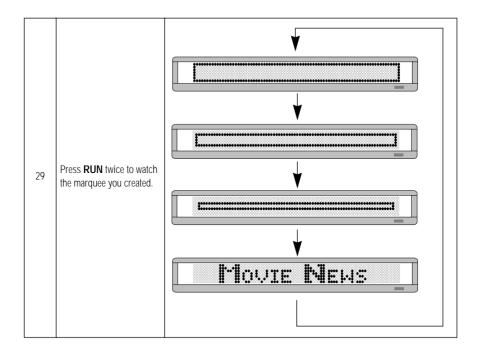
## Example 11 — Creating a movie marquee





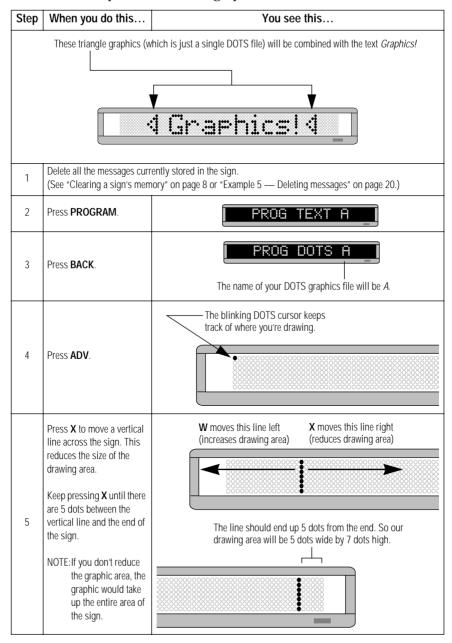


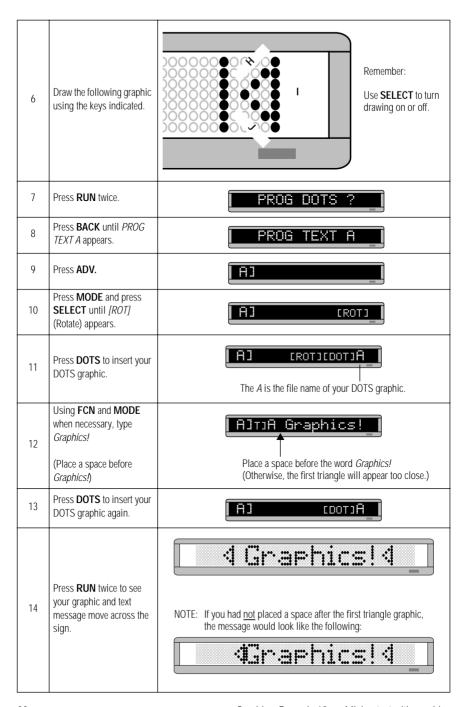




### Example 12 — Mixing text with graphics

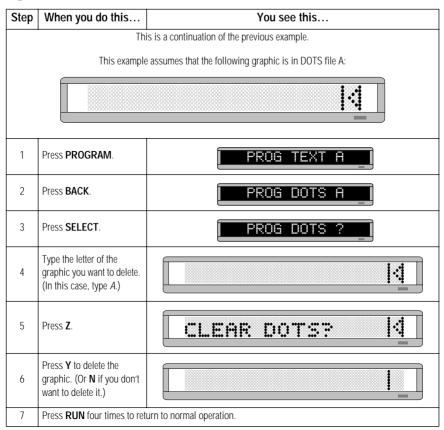
In this example, we'll create a graphic and combine it with text:





### Example 13 — Deleting a graphic

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



# **Appendixes**

### Appendix A — Modes, fonts, colors, and graphics available

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

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

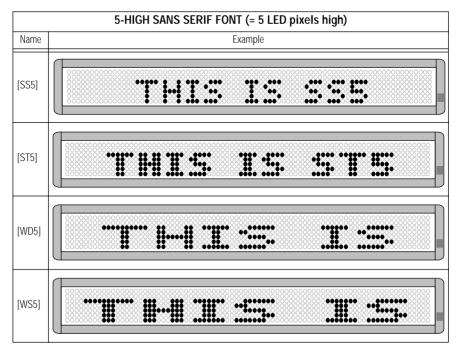
#### Modes available

Use the MODE key to select one of the following:

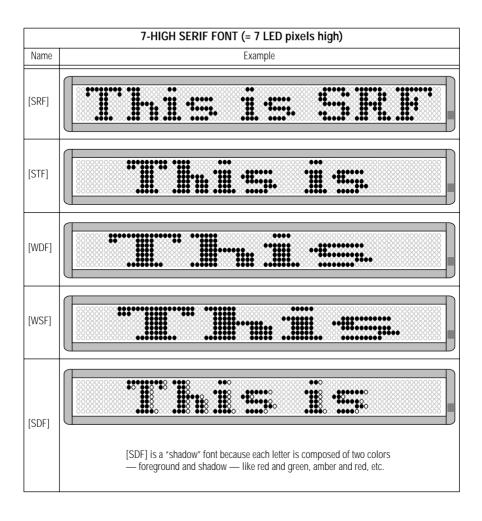
- Automode [AUT]
- Cycle colors [SPC]5
- Flash [FLS]
- Hold [HLD]
- Interlock [SPC]3
- Roll  $[RL^{\uparrow}]$  Use SELECT to change the roll direction.
- Rotate or Condensed Rotate [ROT] or [CRT] Use SELECT to change between the two.
- Scroll [SCR]
- Snow [SPC]2
- Sparkle [SPC]1
- Spray [SPC]6
- Starburst [SPC]7
- Switch [SPC]4
- Twinkle [SPC]0
- Wipe  $[WI^{\uparrow}]$  Use SELECT to change the wipe direction.

#### Fonts available

Fonts are selected by using the FONT and SELECT keys. An example of each font is shown in the table below:



7-HIGH SANS SERIF FONT (= 7 LED pixels high)					
Name	Example				
[SS7]					
[ST7]					
[WD7]					
[WS7]					
[SDS]	[SDS] is a "shadow" font because each letter is composed of two colors—foreground and shadow—like red and green, amber and red, etc.				



#### Colors available

Use the COLOR and SELECT keys (or just COLOR) to select one of the following:

- Red [RED]
- Light red [LRD]
- Green [GRN]
- Light green [LGN]
- Amber [AMB]
- Brown [BRN]
- Orange [ORG]
- Yellow [YEL]
- Rainbow 1 [RB1]
- Rainbow 2 [RB2]
- Mixed colors [MIX]
- Autocolor [ACL]

### Graphics available:

Use the MODE and SELECT keys to select one of the following:

- "Welcome" [SPC]8
- "Thank you" [SPC]S
- "No smoking" [SPC]U
- "Don't drink and drive" [SPC]V
- Slot machine animation [SPC]9
- News flash animation [SPC]A
- Trumpet animation [SPC]B
- Party balloons animation [SPC]Y
- Fish animation [SPC]W
- Fireworks [SPC]X
- Cherry bomb [SPC]Z

## Appendix B — Sign diagnostic test

Your sign can do a self test to determine if all the LEDs are working properly:

Step	When you do this	You see this
1	Press <b>PROGRAM</b> .	PROG TEXT A
2	Press <b>BACK</b> until SET TIME appears.	SET TIME
3	Press <b>ADV</b> .	SET W/D ,H&M THEN  MON 2:29 AM
4	Type TEST  NOTE:This test <u>deletes</u> all messages in the sign. However, if you type the letter <i>R</i> immediately after typing TEST, your messages will be preserved.	THEN A series of test displays will appear.
5	Press <b>PROGRAM</b> to exit the	e self-test mode.

<b>RFTA</b>	<b>BRITE</b>	Programming	Manual
DLIA	DIVITE	i i uui aiiiiiiiiu	i iviai iuai

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