



ColorWriter *Magic*

Full Color Special Effects Electronic Titler

INSTRUCTIONS



ColorWriter Magic™

Full Color Special Effects Electronic Titler

INFORMATION

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient the receiving antenna;
- Relocate this equipment with respect to the receiver;
- Move this equipment away from the receiver;
- Plug this equipment into a different outlet so that this equipment and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communication Commission helpful:

"How to Identify and Resolve Radio-TV Interference Problems." This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402, Stock No. 004-000-00345-4.

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INTRODUCTION

The Sima **ColorWriter**™ allows you to create professional video titles and overlay them on your recorded scenes or on a colored background while editing or transferring your video tape.

Titles are first created and stored in the **ColorWriter's** memory. They are then called up and inserted at the appropriate location on the tape.

The **ColorWriter** has a large variety of features that allow you to create professional looking titles for your videos. Read these instructions thoroughly and experiment to familiarize yourself with the amazing variety of titling effects possible, as well as the push button simplicity of the **ColorWriter**.

FEATURES AND SPECIFICATIONS OF THE COLORWRITER

Pages	Letter Size	Characters Display	Characters in Memory
1, 2	1	10 lines of 24 characters	20 lines of 24 characters
	2	5 lines of 24 characters	20 lines of 24 characters
	3	10 lines of 12 characters	20 lines of 12 characters
	4	5 lines of 12 characters	20 lines of 12 characters
3,10	1	10 lines of 24 characters	10 lines of 24 characters
	2	5 lines of 24 characters	10 lines of 24 characters
	3	10 lines of 12 characters	10 lines of 12 characters
	4	5 lines of 12 characters	10 lines of 12 characters
11,12	Zoom		
HEADLINE		1 line by 12 or 24 characters	

Figure 1

1. **Standard size International Keyboard.**
2. **S-Video compatible.**
3. **Thirteen pages of memory; four character sizes.** (see Figure 1.)
4. **Eight colors: Black, Red, Green, Yellow, Blue, Magenta, Cyan, White**
5. **Variations:**
 - (a) Colored Letters
 - (b) Boxed Letters
 - (c) Bordered Letters
 - (d) Reversed Letters
 - (e) Colored Background
6. **Create Functions:**
 - (a) Page Clear
 - (b) Character Delete
 - (c) Line Shift
 - (d) Page Shift
 - (e) Page Center
 - (f) Character Repeat
 - (g) Cursor Move Repeat
7. **Insert Effects:**
 - (a) Zoom In
 - (b) Zoom Out
 - (c) Fade
 - (d) Vertical Scroll
 - (i) 4 Speeds
 - (ii) Sequential Pages
 - (e) Typewriter Scroll
 - (i) 4 Speeds
 - (ii) Line Select
 - (iii) Sequential Pages
 - (f) Six Special Effects to Insert or Exit Title
 - (g) Overlay on Video

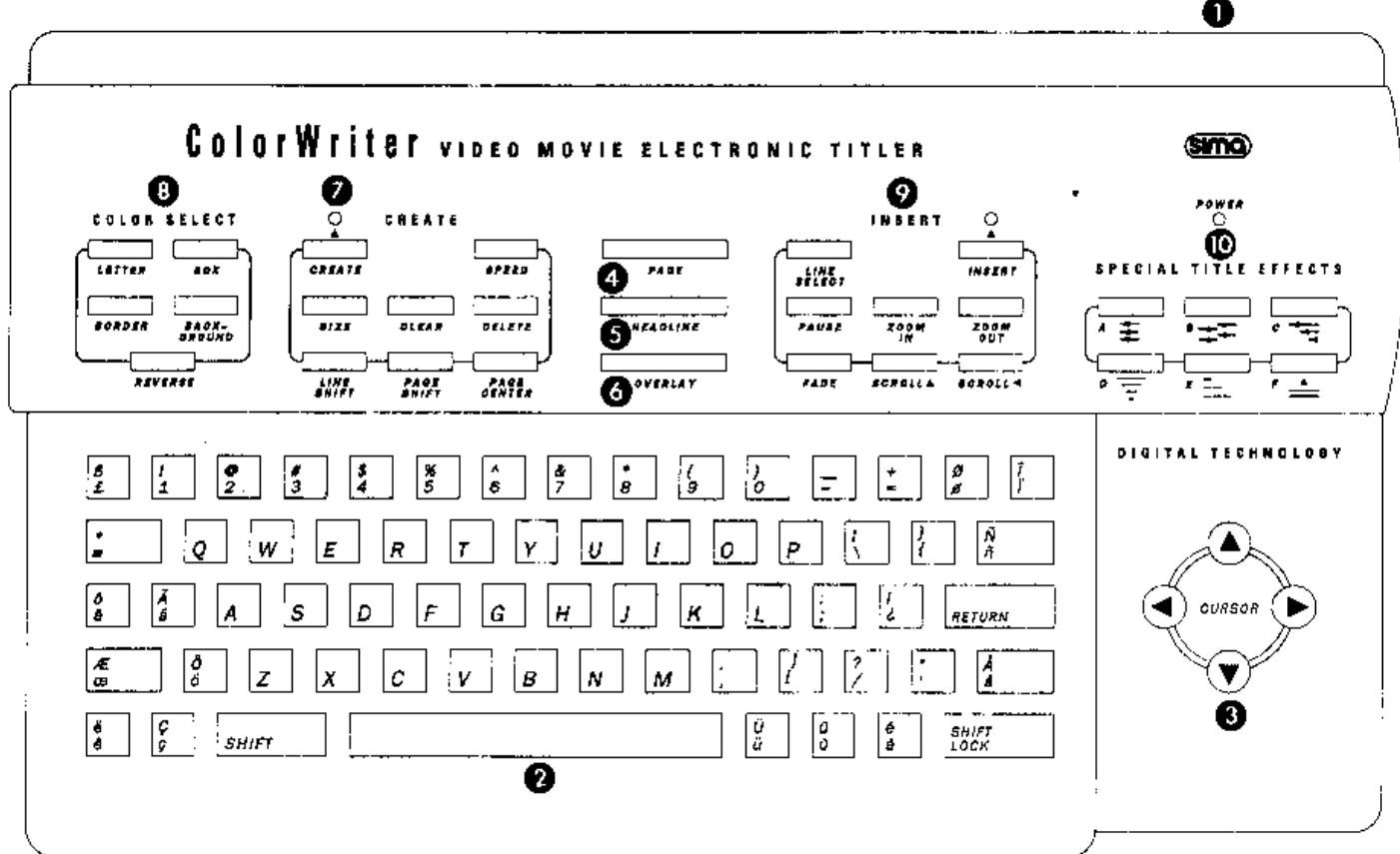


Figure 2

CONTROLS

1. POWER

The power switch is located on the rear panel. The green power LED will light when power is on.

2. MAIN KEYBOARD

Two modes of operation, NORMAL and SHIFT.

A. NORMAL MODE

Letters will show in lower case. When two characters are on a keytop, the lower character will show.

B. SHIFT MODE

When the SHIFT key is depressed and held while another key is depressed, the letter keys will generate upper case and all other keys will generate the upper character on the keytop.

SHIFT LOCK – When this key is depressed and released, the keyboard is in permanent SHIFT mode. To leave SHIFT MODE, depress SHIFT LOCK again.

All keys can be repeated. If a key is depressed and held down for two seconds, the character will be repeated.

3. CURSOR KEYS

These allow you to position the cursor anywhere on the screen. The cursor is a flashing block where characters can be inputted. If the CURSOR key is depressed and held down for two seconds, the cursor will move rapidly across the page.

4. PAGE

When this key is depressed, followed by a number (1-12), a page in memory is selected to store a title which will be created, or to retrieve a previously created title.

5. HEADLINE

Selects the one line HEADLINE page for creation or insertion.

6. OVERLAY

Places the title over the video being played, rather than a solid color background.

7. CREATE

When this key is depressed, the green LED will light, indicating that you are in the CREATE mode. The following keys then become active. Depressing CREATE again after the page is created will store the page in memory and turn off the LED.

A. **SIZE** – Each depression shifts to the next of four character sizes, from the smallest to the largest.

B. **LINE SHIFT** – When this key is engaged, an entire line can be moved using the CURSOR CONTROL keys.

C. **CLEAR** – Clears the selected page in memory.

D. **PAGE SHIFT** – When this key is engaged, the entire page can be moved using the CURSOR CONTROL keys.

- E. **SPEED** – When this key is depressed, one of four speeds can be selected for the scrolls and special effects. The speed selected will be stored in memory and used when the page is selected for insertion.
- F. **DELETE** – Removes the character under the cursor.
- G. **PAGE CENTER** – When depressed, the title on the screen will be centered horizontally and vertically.

8. COLOR SELECT

These keys are also active during CREATE:

- A. **LETTER** – When this key is depressed, eight choices of color are presented for the letters. A depression of Number 1 through 8 will select the color.
- B. **BORDER** – When this key is depressed, eight choices are presented for border colors.
- C. **BOX** – When this key is depressed, eight color choices are presented to box in the characters.
- D. **BACKGROUND** – When this key is depressed, eight choices are presented for a background color.
- E. **REVERSE** – Will create a boxed character with the box becoming the color of the character and the character becoming hollow so the video can be seen through it.

9. INSERT

When this key is depressed, the green LED above it will go on. The selected title will now appear for review or recording. When depressed again, the title will disappear and the LED will go off. The following keys are active when in the INSERT mode:

- A. **LINE SELECT** – This key selects the line on which typewriter scroll will take place.
- B. **PAUSE** – This key stops any action taking place, such as scrolling or special effects. When depressed again, the action will continue.
- C. **FADE** – This key causes the selected title to fade in on the screen overlaying the video. When depressed again, the titles will fade out.
- D. **ZOOM IN** – This key will cause the selected zoom page to begin with the smallest character size and increase in three steps to the largest.

E. **ZOOM OUT** – This key will cause the selected zoom page to begin with the largest character size and decrease in three steps to the smallest. **NOTE:** ZOOM can only be used with pages 11 and 12.

F. **SCROLL ▲** – This key will cause the selected page to move from the bottom to the top and off the screen, line by line.

G. **SCROLL ◀** – This key will cause the selected page to move in a single line from right to left on the line selected. If no line is selected, it will move along the previously selected line.

10. SPECIAL TITLE EFFECTS

This group of keys provides unique ways of bringing titles on the screen or removing them. These effects can only be used with pages 3 to 10.

Key **(A)** will bring the entire selected page in from right to left. When the entire page is on the screen, it will stop. If depressed again, the entire page is shifted from right to left until it is completely off the screen.

Key **(B)** will bring the selected page in from both sides. Odd numbered lines will come in from the right and the even numbered lines will come in from the left. When the entire title is on the page, the action will stop. If this key is depressed with a title on the screen, the title will shift off the screen in both directions.

Key **(C)** will bring the selected title in line by line from the right, beginning with the top line. If depressed again, the title will leave the screen line by line to the left, beginning with the top line.

Key **(D)** will bring the selected title in by scrolling down from the top, one line at a time, until the entire title is on the screen. If depressed again, the title will leave the screen by scrolling down and off, one line at a time.

Key **(E)** will bring the selected title in one character at a time, beginning at the top, as if the title were being typed. If depressed again, the title is removed from the screen, one character at a time, beginning at the top.

Key **(F)** will bring the selected title in by scrolling the entire page up from the bottom. The scrolling will stop when the page reaches the top of the screen. If depressed again, the title will leave the screen by scrolling up and off the screen.

SET UP

1. INSTALLATION OF THE BACKUP BATTERIES

In order to save the titles you have created, the backup batteries must be installed. This should be done before power is applied to the unit. See Figure 5.

- Slide open the battery compartment door.
- Install the batteries following the polarity shown.
- Replace the battery compartment door.

The batteries should last for about six months and should be replaced with an LR44 or equivalent. If you will not be using the **ColorWriter**, remove the batteries.

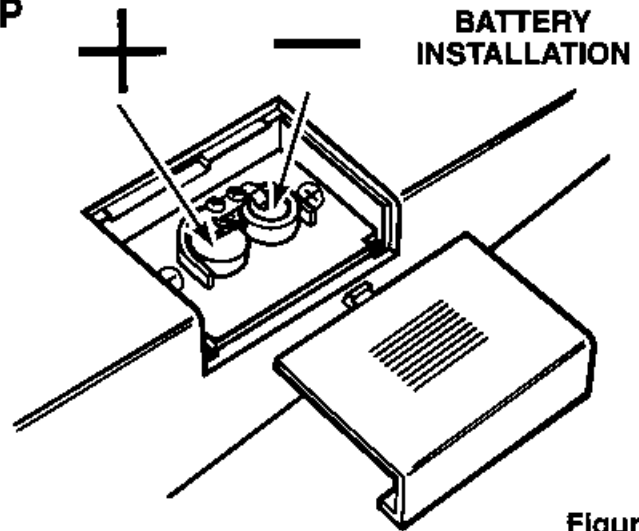


Figure 5

PRECAUTIONS REGARDING THE BACKUP DISC-BATTERIES

KEEP DISC-BATTERIES AWAY FROM CHILDREN. IF ONE SHOULD BE SWALLOWED, CONTACT A DOCTOR IMMEDIATELY.

- To avoid any possibility of explosion or leakage of chemicals, observe correct polarity when inserting the battery.
- Do not attempt to recharge, short-circuit or dis-assemble the battery.
- Do not heat or put into a fire.

2. CONNECT THE COLORWRITER, AS SHOWN IN FIGURE 6.

- If your system has S-VHS or Hi-8 capability, connect the S-VHS cables instead of the Video cables. The Audio cables should be connected as shown.
- Make sure that the recording VCR has been switched to the Line mode if it has a Line/Tuner Switch. If you cannot find a Line/Tuner Switch, check your VCR manual to determine how to record using the Audio/Video inputs on your VCR.

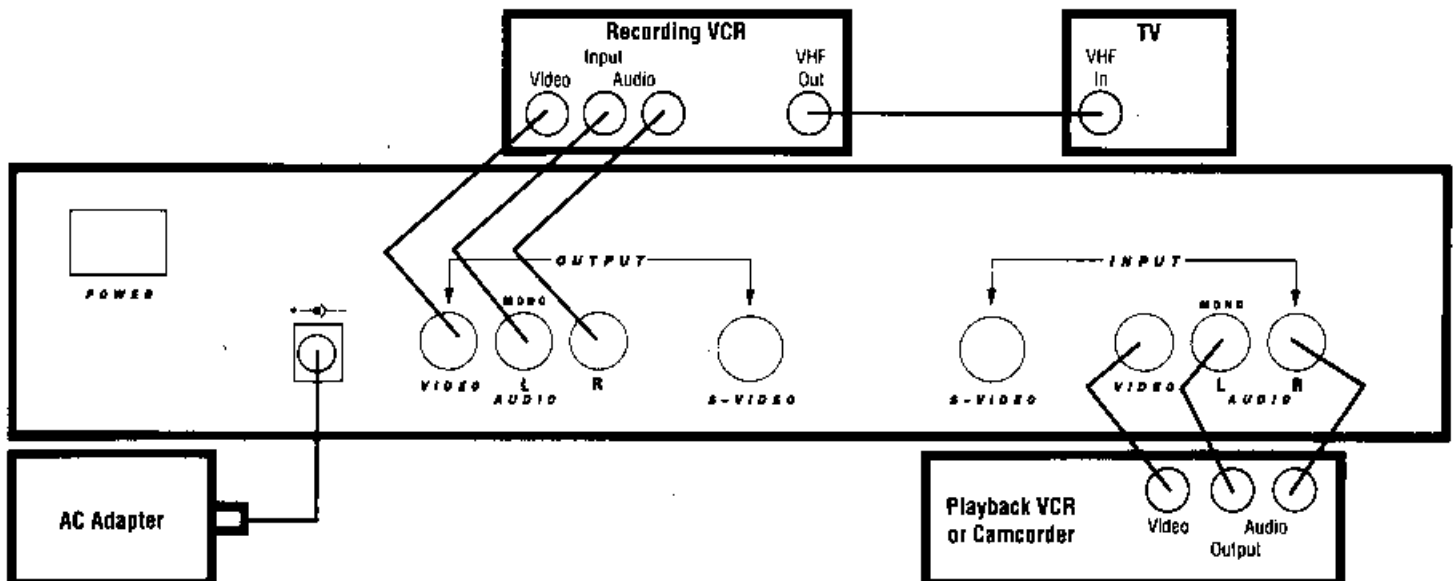


Figure 6

CREATING TITLES

All that is required to create a title with the **ColorWriter** is a VCR with a television connected to the VHF output.

1. Turn on the **ColorWriter**, VCR and television as if you were playing the VCR. Make sure the VCR is in the line, or AUX, mode.
2. Depress the PAGE key.
3. Depress a NUMBER key, 1 to 12, to select a page. You must decide which kind of title you want to create – SCROLL, STANDARD or ZOOM – and depress the appropriate number.
4. Depress the CREATE key. The green LED above the CREATE key will go on. The television screen will show 10 lines of 24 boxes per line. The first box on the first line will blink. This is called the CURSOR. The STATUS LINE at the top will identify the page selected and the line the cursor is on.

If characters appear on the page, they can be cleared off by depressing the CLEAR key and then the RETURN key. This will give you a clean page for your title.

If the message "PAGE 1 TO 12 MUST BE SELECTED" appears, start over by depressing PAGE, a NUMBER key 1 to 12, and CREATE. That message meant that an incorrect key was depressed after PAGE and before CREATE.

5. The CURSOR keys can be used at anytime to position the cursor anywhere on the screen. Characters can be entered wherever the cursor is located. The cursor can be moved rapidly by holding down one of the CURSOR keys.
6. As characters are typed in, they will appear on the screen and the cursor will move one position to the right. (When the cursor reaches the last position on the line, it will not move any further. *All characters inputted at this point will replace the previous character.*) Depressing the RETURN key will take the cursor to the first position of the next line.
7. The **ColorWriter** is always in the **Edit** mode. This means that if a letter is omitted in a word, all you need to do is position the cursor at the missing location and depress the character. The missing character will be inserted and the remaining characters will be shifted to the right.
8. If a character must be removed, the DELETE key should be used. Use the cursor keys to position the cursor on the character to be deleted. Depress the DELETE key. The character at the cursor will disappear and all the characters to the right of the cursor will shift left to fill in the vacancy. One character is deleted for each depression of the DELETE key. If the DELETE key is held down, the delete function is repeated, eliminating an entire line of characters.

9. Your title can be re-arranged by using one of the following keys:

LINE SHIFT

This allows you to move a portion of a line or the entire line either left or right on the same line. It also allows you to move the entire line up or down, replacing any previous information.

To shift information on a line, position the cursor on the first character that you want to be moved using the CURSOR position keys. Next, depress the LINE SHIFT key. The words "LN SHIFT" will begin flashing at the top of the screen. Now move the cursor left or right to the new position. Depress the RETURN key. The entire line, beginning with the original cursor position and all characters to the right, will be moved to the new position, as defined by the new cursor position.

To shift a line of information either up or down, place the cursor anywhere on the line that is to be moved. Depress LINE SHIFT. Now position the cursor on the new line and press RETURN. The entire line will move to the new line. *Any information that was on the new line will be lost.*

The line shift function can be cancelled before any movement of information by depressing the LINE SHIFT key again.

LINE SHIFT can be used with all pages in memory.

PAGE SHIFT

This key will allow you to completely move an entire page from left to right and from top to bottom. You cannot move a page from bottom to top or right to left.

To shift a page, depress the PAGE SHIFT key. The cursor will go to the first position on the first line. The message "PG SHIFT" will flash at the top of the screen. The page to be shifted includes everything on the screen, including any spaces to the left or top of the actual title. Move the cursor to the new position on the screen. Depress the RETURN key. The entire screen will move to the new location defined by the cursor position. The **ColorWriter** is still in the PAGE SHIFT mode so that the page can be moved back to the left or to the top, entirely, part way, or back to the original starting position. When you are satisfied with the position of the information, depress "PAGE SHIFT" again. This confirms the location. *Any characters off the screen will be lost.* A new page has been defined. If "PAGE SHIFT" is entered again, you will not be able to move the data to the left or up.

If you want to cancel the page shift before moving the cursor, depress the PAGE SHIFT key again.

PAGE SHIFT can be used with MEMORY pages 1 to 10. It cannot be used with the ZOOM pages.

PAGE CENTER

This key will allow you to automatically center a title on a page from top to bottom and from left to right.

To center a page, depress the PAGE CENTER key. The message "PG CENTR" will flash at the top of the screen. Depress the RETURN key. The title that exists will be positioned in the center of the page.

PAGE CENTER can be used with Pages 1 to 10; however, since Pages 1 and 2 have 20 lines of information, the title will be centered from top to bottom within the 20 lines.

If you decide to not center the page, depress the PAGE CENTER key again and the function will be cancelled.

10. The size of the characters can be selected any time during the CREATE process by using the SIZE key. Only one character size can be used per page. The size can be selected before you begin creating the title, or the title can be created first and then the size changed by depressing the SIZE key. Each depression will step to the next size up until you return to the original size. No characters are lost as you step through the sizes. You can recover any characters that are off the screen by returning to the original size.

11. The speed of the various effects can be defined during the CREATE mode by using the SPEED key. Each depression of the SPEED key will advance the speed to the next slowest speed. There are four speeds for each of the effects and they are listed as SPEED 1 through SPEED 4. The SPEED selections are for the following effects:

SCROLL ▲

SCROLL ◀

ZOOM IN

ZOOM OUT

SPECIAL TITLE EFFECTS

The speeds are different for the various effects. After a speed is selected, depressing the RETURN key will complete the selection process.

The speed can also be changed while in the INSERT mode. It is a good idea to go through an INSERT test before actually recording an edited video. The speed can be changed while the effect is being performed to see the actual speed of the effect.

12. There is a special memory page called HEADLINE. It can be used with all the other pages during INSERT, and this function will be described in the INSERT section. To create a headline page, the following keys should be depressed: HEAD-

LINE and CREATE. One line of boxes will appear on the screen. The size of the characters can be changed in the normal way.

13. COLOR SELECTIONS: LETTER

There are eight colors to choose from and all the colors can be used on the same page in memory. The colors can be selected and changed as the title is being created, or the entire title can be created in one color and then you can go back and select the colors you want.

To select a color, depress the LETTER key. If the cursor was on a hollow box, a line of hollow boxes will appear at the top of the screen, outlined with the various colors, with a Number 1 through 8 at the left of the box. When a number selection is made, all characters will be input in that color until another color selection is made. *If, however, you are creating the title on a blue background, for example, you will not see a box by the Number 5.* This is because Number 5 is the blue letter and cannot be seen on a blue background.

You can change the colors of individual letters by positioning the cursor on the letter to be changed. Depress the LETTER key. The character that the cursor is on will now be shown across the top of the screen in the eight colors. Select one of the colors. The character that the cursor is on will change to the new color. Use the cursor keys to move the cursor to the next character to have its color change, and repeat the process.

An entire line of characters can be changed to a new color very easily:

- (a) Position the cursor on the first character of the line to be changed.
- (b) Select the new color by depressing the LETTER key and then a NUMBER key 1 through 8.
- (c) Depress the LETTER key again, and hold it down.
- (d) Depress the cursor position continually, or hold it down.
- (e) The cursor will move along and every character will change to the new color. Any one of the CURSOR POSITION keys can be used, so character colors can be changed in any direction.

NOTE: If the colors of the characters appear to bleed into the background, reduce the color and brightness controls on your T.V.

BACKGROUND

The background color for the title can be changed to any one of the eight background colors. The various background colors can be used while creating the title, or they can be used during INSERT between scenes. To select the background color, depress the BACKGROUND key. A row of colored boxes will

appear at the top of the screen numbered 1 through 8. To select a color background, depress a number. If you want to keep the color you have, depress the BACKGROUND key to exit the background select section.

BORDER

The BORDER key will outline all the characters on a line with a selected color. To select a color, depress the BORDER key. A row of eight colored boxes will appear at the top of the screen with the numbers 1 to 8 along side. The border color is selected by depressing one of the numbers. All characters entered on the line the cursor is on will be outlined in the color chosen. The border can be chosen before the title is created, or after the title is created. To put a border around the characters already in place, place the cursor on the line to be bordered and select the border color. All characters on that line will be outlined in the color chosen. Every line can have the characters outlined, but only one outline color can be used on a page. If more than one line has bordered characters and the border color is changed, all of the bordered lines will change to the new color.

To cancel a line that has been bordered, depress the BORDER key and then the DELETE key. The border function will be cancelled for that line, but the characters will remain in place.

To eliminate the border function on a page, depress the BOX key. Since the BORDER and BOX options cannot exist on the same page, all the borders will be removed from the characters. You can now select a color for the boxed characters, or depress the BOX key again to cancel the selection and return to the CREATE mode.

BOX

This key allows you to select a color that will enclose a character in a box. When this key is depressed, a line of colored boxes appears across the top of the screen with the numbers 1 to 8. Depressing one of the numbers will select a color for the box. When a color is selected, the entire line that the cursor is on will have its characters enclosed in a box. The box can be chosen before or after the title has been created. To put a box around the characters already in place, position the cursor on the line to be boxed and select the box color. All characters on that line will be boxed in the color chosen. *Every line can have the characters enclosed in a box, but only one box color can be used on a page.*

During INSERT only the characters will appear in a box. If the entire line is to be in a box, including the spaces, the following procedure should be used: Whenever a **space** is to be inserted, hold down the SHIFT key and depress the SPACE key. Whenever a **solid box** is required, the SHIFT/SPACE/BAR combination should be used.

To cancel a **line** that has been boxed, depress the BOX key and then the DELETE key. The box function will be cancelled for that line, but the characters will remain in place. To cancel the box function for the **entire page**, depress the BORDER key. The box function is cancelled and you can now select a color for the border function or return to the CREATE mode by depressing the BORDER key a second time.

REVERSE

The REVERSE key allows you to exchange the color of a character with the color of the background. If this title is being overlaid on a video, the character will have a box around it with the color of the character, and the character itself will be hollow and the video will show through it.

The title should be created first, before the reverse function is selected. To reverse a string of characters, position the cursor on the first character to be reversed, and depress the REVERSE key. Move the cursor over one and depress REVERSE again. This should be done for each character being reversed.

You can also hold down the REVERSE key and the CURSOR POSITION key and the entire line will be rapidly reversed as the cursor steps along.

The reverse function can be cancelled by repeating the above procedure.

Reverse can be used with the box or border functions. If this is done, the character will have the color of the box or border instead of being hollow. Reverse can be used on a character-by-character basis, and intermixed on a line with border or boxed characters.

14. When you have completed the title page, depress the CREATE key. The green LED will turn off, the screen will go blank, and the page will be committed to memory.

NOTE: Keep a record of the title information on each page placed in memory. This will assure that, when you actually insert the title, you will be calling up the correct page.

INSERTING TITLES

The title pages which have been stored in the ColorWriter's memory can easily be inserted as your videotape is being transferred or edited, with the touch of a button. Instructions are presented below for inserting a standard title, and using special title effects. Your system should be connected, as shown in Figure 6. The original tape should be in the playback VCR or camcorder and a blank tape in the recording VCR.

A. Standard title insert is accomplished as follows:

1. Turn on all units.
2. Put the playback VCR in play and the recording VCR in record. If connected properly, a picture should appear on the television screen. If only the audio is heard, and no video, depress the OVERLAY key.
3. Depress the PAGE key and the number of the title page you want to insert.
4. When the point on the tape where you want

to insert the title is reached, depress the INSERT key. The title will now appear on top of the picture being played. The OVERLAY key is used to select between showing a title on a colored background or over a video.

5. Depressing INSERT again will remove the title.

In addition to the standard title, there are many special effects which can be used when inserting, as described below.

Basically, a special effect is added by pressing the special effect key after the PAGE and NUMBER keys are depressed, and before the INSERT key.

The PAUSE key can be used to stop any of the effects. For example, if a title is scrolling up and the PAUSE is depressed, the scrolling process will stop. To resume scrolling, the PAUSE key should be depressed again.

FADE, SCROLL, ZOOM and HEADLINE

1. FADE

The FADE key will fade the title on the screen in about three seconds. The fade is selected in the following way:

PAGE - 3 - FADE - INSERT

The title on page 3 will fade in. The FADE key can be depressed a second time and the title will then fade out. The fade effect can be used with all 12 pages.

2. SCROLL ▲

The SCROLL ▲ key can be used with all 10 pages of memory, individually or sequentially. To scroll up a page:

PAGE - 1 - SCROLL ▲ - INSERT

The title on page 1 will begin scrolling up from the bottom at one of the four speeds selected during CREATE. Pages 1 and 2 have 20 lines each for extended scrolling information. If even more lines of information are to be scrolled, then the sequential scrolling feature can be used.

While the first selected page is scrolling, the second page should be selected in the following way:

PAGE - 2 - SCROLL ▲

This must be done before the last line of the first selected page is on the screen, if the second page is to follow directly behind the first selected page.

If the second page is selected after the last line is on the screen, then the second page will not start until the first page is completely off the top of the screen.

3. SCROLL ◀

The SCROLL ◀ key can be used with all 10 pages of memory, individually or sequentially, to typewriter scroll a message from right to left. The line that the message should be scrolled on must also be selected using the LINE SELECT key. The sequence should be as follows:

PAGE - 1 - LINE SELECT - 5 - SCROLL ◀ - INSERT

Page 1 will begin scrolling from right to left on line 5 at the speed selected during CREATE. If the LINE SELECT is not used during the set-up, the title will scroll on the line previously selected.

Additional pages can be sequentially typewriter scrolled. After the first page begins scrolling, the next page should be selected in the following way:

PAGE - 3 - SCROLL ◀

The title on page 3 will then follow the last character on page 1. Any blank lines on a page will appear as empty areas during typewriter scrolling, so to maintain a smooth flow of information all lines should be filled. As each new

page begins scrolling from right to left, another page can be selected to follow.

4. ZOOM

ZOOM keys are used with pages 11 and 12. The ZOOM IN will step from the smallest to the largest character in three steps. There are four speeds of zoom which can be selected during CREATE. To select the zoom, the following should be done:

PAGE - 11 - ZOOM IN - INSERT

The title on Page 11 will zoom in. At this point, the ZOOM OUT can be depressed and the title will step from the largest to the smallest size in three steps. Depressing INSERT will remove the title from the screen.

5. HEADLINE

The HEADLINE key selects the one line title for creating or inserting. The headline page can be inserted by itself, or it can be used in combination with any of the other pages and all of the special effects.

For instance, to insert the headline with page 3, the following keys should be depressed:

HEADLINE - PAGE - 3 - INSERT

This will put the headline at the top and the title located on page 3 below it. To remove the headline and the title from the screen, depress INSERT again.

The headline page can be used with the SCROLL in the following way:

HEADLINE - PAGE - 1 - SCROLL ▲ - INSERT

The headline will be placed at the top of the screen and the page will begin scrolling up from the bottom of the screen. The HEADLINE can also be used with SCROLL ◀.

The headline title can be created using the various color options. The color of the letters can be selected and the box or border effect can be selected, as well as the reverse effect. When the headline is used with another page, the following rules apply:

1. If the headline page is bordered in a color and the main title page is bordered in a different color, the headline page will change to the border color of the main page.
2. If the headline page is boxed in a color and the main title page is boxed in a different color, the headline page will change to the box color of the main page.
3. If the headline page is boxed and the main page is bordered, the headline page will become bordered.
4. If the headline page is bordered and the main page is boxed, the headline page will become boxed.

SPECIAL TITLE EFFECTS

The six special title effects described below provide some exciting options when inserting your titles. They are grouped as Keys (A) through (F), and can be used to bring a title on the screen or to remove a title. These effects can only be used with pages 3 through 10. What each does is described below:

KEY (A) will bring the entire selected page in from right to left. When the entire page is on the screen, it will stop. If depressed again, the entire page is shifted from right to left until it is completely off the screen.

KEY (B) will bring the selected page in from both sides. Odd numbered lines will come in from the right and even numbered will come in from the left. When the entire title is on the page, the action will stop. If this key is depressed with a title on the screen, the title will shift off the screen in both directions.

KEY (C) will bring the selected title in line by line from the right, beginning with the top line. If depressed again, the title will leave the screen line by line to the left, beginning with the top line.

KEY (D) will bring the selected title in by scrolling down from the top, one line at a time, until the entire title is on the screen. If depressed again, the title will leave the screen by scrolling down and off, one line at a time.

KEY (E) will bring the selected title in one character at a time, beginning at the top, as if the title were being typed. If depressed again, the title is removed from the screen, one character at a time, beginning at the top.

KEY (F) will bring the selected line in by scrolling the entire page up from the bottom. The scrolling will stop when the page reaches the top of the screen. If depressed again, the title will leave the screen by scrolling up and off the screen.

As an example, if you want to bring page 3 on the screen using effect (A), you would press:

PAGE - 3 - SPECIAL EFFECT (A) - INSERT

At this time, the entire title on page 3 will be brought on the screen from the right at the speed selected during CREATE, and will stop when it is completely on the screen. The title can now be removed from the screen by depressing one of the other SPECIAL EFFECT keys, or the same one. The title will then begin to leave the screen.

The procedure can be set up so that immediately after the title is brought on the screen it will be removed. To do this, press:

PAGE - 3 - (A) - INSERT

As soon as the title starts coming on the screen, depress one of the SPECIAL EFFECT keys to remove the title, say KEY F. Then the following will take place: Page 3 will be shifted in from the right and, after the entire page is brought in, it will begin to scroll upward and off the screen. If you want a different page (say, Page 4) to be brought on the screen next, then, while the previous page is going off the screen, depress the following:

PAGE - 4 - (C)

After page 3 is completely off the screen, page 4 will come on the screen one line at a time, from the right.

The **Fade** effect can be used in combinations with the **Special Effects**.

The **Headline** page can be also used with all of the **Special Effects**.

TROUBLE SHOOTING SUGGESTIONS

Check the following list of problems and remedies before calling service personnel.
The problem may be one you can solve yourself.

PROBLEM	CAUSE	REMEDY
Power LED does not go on.	Switch is off.	Turn switch on.
	Adapter is not connected to the ColorWriter .	Attach AC adapter cable to the ColorWriter .
	Adapter is not plugged into a good outlet.	Try a different outlet.
Page does not appear on TV screen after depressing: "PAGE" "Number 1-12" "CREATE"	ColorWriter , VCR and TV not connected correctly.	Check the connections as shown in Figure 6.
	Recording VCR not switched to line or AUX.	Switch recording VCR to line or AUX input to accept signals through the AV connectors or the S-VIDEO connector. Refer to your VCR manual.
No picture on TV, only audio.	ColorWriter not in the "OVERLAY" mode.	Depress "OVERLAY" button.
Previously created title cannot be recalled.	Title was saved on a different page.	Check the other pages.
	Back-up batteries not installed.	Install batteries and re-create title.
	Back-up batteries are dead.	Replace back-up batteries.
Colors are bleeding into background.	Color level of T.V. set too high.	Adjust the color and brightness controls on the T.V.



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