

# **TABLET COMMANDS**

**for the Apple Graphics Tablet versions of**

**The Complete Graphics System II  
by Mark Pelczarski**

**and**

**Special Effects  
by Mark Pelczarski and David Lubar**

These tablet notes are for two separate products, The Complete Graphics System II and Special Effects. These instructions are combined to facilitate the use of the programs for people who have both. Also, there is only room for one extra command strip on the tablet, so this eliminates the possible need to keep changing it.

The major difference between the Apple Tablet versions, and the paddle/joystick versions which are described in the manuals, is that most of the input is now taken from the tablet instead of from paddles or joystick.

The Complete Graphics System II uses tablet input in the Drawing, Text, Shape, and Panel modules. In Special Effects, the Painting and Tricks modules are controlled with the tablet.

When you first use these programs you need to calibrate the tablet. You should use the backup copy of your master disk with the write-protect notch left uncovered. From the main menu choose which module you want to go to. You will then receive a prompt on the screen to touch the upper left, then the lower right corners of your tablet. Press down on the small dot in each of these corners with the point of the tablet pen.

The coordinates of the points you have input will be stored on your master disk in a file called "XY". After this initial calibration, the calibration will be done automatically every time you use the disk. If it is necessary to recalibrate your tablet (if you've moved the overlay), delete the "XY" file before running the program. Then, when you first use the program again, you will be asked to input the coordinates just as before.

Included in your package is a strip of paper with the tablet commands printed on it. Place this strip under the plastic overlay in the blank row under the row which has the commands imprinted on the overlay. The commands that are accessible depend on the module you are using. Most commands directly correspond to the keyboard commands described in the manual with some slight variations in implementation.

The two commands below are used in both The Complete Graphics System II and Special Effects.

## **Palette**

The Palette is used in The Complete Graphics System II to choose colors for the auto-fill routine of the Drawing module, and for the colors of large fonts created with the Text module. You also choose the color you want from the palette in the Painting module of Special Effects.

To look at the colors in the palette, press the pen down on any one of the first seven command blocks where PALETTE is printed. Select the color you want by pressing the pen to the tablet when the cursor is on the color you want.

## **Full Screen**

This command is used when you want to switch back and forth between full screen graphics and mixed text and graphics. It corresponds to the ESC key function described in the manual.

## Special Effects

**The sections of the command blocks that are in white are the ones used in Special Effects.**

## The Painting Module

Point selection in the magnify modes, brush selection and movement, and color selection can be done using the tablet.

Since magnification is done around the current cursor point, after you choose the magnification you want by pressing the pen on the 2X or 4X block, lift the pen so that the cursor disappears on the screen. Then press the pen on the point in the middle of the area you would like magnified.

If you have difficulty getting the area you want magnified because of the pen reading input from the tablet in the area of the command blocks, you can still use the keyboard commands "2" and "4" for magnification with the pen at the desired location.

When you are painting, the brush is down whenever the pen is pressed down on the tablet.

## The Tricks Module

This module uses the tablet input only when you are specifying which section of a picture is to be moved to another. Press down with the pen to indicate the four corners of the area you want moved.

|          |          |          |          |          |          |          |            |            |                 |                |                 |                   |                     |                    |            |               |           |                      |     |       |                |
|----------|----------|----------|----------|----------|----------|----------|------------|------------|-----------------|----------------|-----------------|-------------------|---------------------|--------------------|------------|---------------|-----------|----------------------|-----|-------|----------------|
| <b>P</b> | <b>A</b> | <b>L</b> | <b>E</b> | <b>T</b> | <b>T</b> | <b>E</b> | Color<br>— | Start<br>— | Points<br>Small | Lines<br>Large | Fill<br>Reverse | AutoFill<br>Dest. | Circle<br>Non-Dest. | Ellipse<br>Options | Brush<br>— | Shape<br>Save | Test<br>— | Rot./Scale<br>Forget | —   | —     | FULL<br>SCREEN |
|          | —        | Repeat   | Point    | —        |          |          | Color      | Switch     | —               | Line           | —               | Done              | —                   | Brush              | Normal     | 2X            | 4X        | On                   | Off | C.Bit |                |

**Returns the display from a magnified mode to normal.**

**4X magnification at the cursor position.**

**In a magnified mode, sets the pen so that the points you touch will be turned off.**

Select brush from the ones displayed. Press the pen down when the cursor is on the one you want.

**2X magnification at the cursor position.**

In a magnified mode, sets the pen so that the points you touch will be turned on.

**Color bit.** Same as the "R" command in the manual. Toggles between which color bank is in use.

The sections of the command blocks that are in white are the ones used in each corresponding module of The Complete Graphics System II.

Tablet input is used almost exclusively in this module allowing easy movement between the modes. A few keyboard commands are kept active to save, load, clear the screen, and return to the menu.

**P** Select pen color from the eight standard colors displayed. Press the pen down when the cursor is on the color you want.

**A** Points mode—new for tablet version. Allows you to draw freehand when the pen is down. Touch the pen to any command block to get out of this mode.

**L** Fill mode. Same as “F” in manual. Starting point remains the same.

**E** Press the pen down at the point you want for the center, then press it at a point you want on the circle. When you move the pen around the center, the cursor moves in a circle with the radius chosen. Hold the pen down to plot points. Similar to “R” option in manual.

**T** Choose each of the two focal points, then a point on the ellipse. Moving the pen around the foci moves the cursor around the chosen ellipse. Hold the pen down to plot points. Similar to “E” option.

**T** Rotate and Scale a shape. See description under “The Shape Module” below.

**E** Color reverse. Exchanges black and white.

|          |          |          |          |          |          |          |
|----------|----------|----------|----------|----------|----------|----------|
| <b>P</b> | <b>A</b> | <b>L</b> | <b>E</b> | <b>T</b> | <b>T</b> | <b>E</b> |
| — Repeat | Point    | —        | —        | —        | —        | —        |

|         |          |        |       |         |          |           |         |         |       |      |            |     |         |        |
|---------|----------|--------|-------|---------|----------|-----------|---------|---------|-------|------|------------|-----|---------|--------|
| Color   | Start    | Points | Lines | Fill    | AutoFill | Circle    | Ellipse | Brush   | Shape | —    | Rot./Scale | —   | Reverse | FULL   |
| — Color | — Switch | Small  | Large | Reverse | Dest.    | Non-Dest. | Options | — Brush | Save  | Test | Forget     | —   | — C.Bit | SCREEN |
| —       | —        | —      | Line  | —       | Done     | —         | —       | Normal  | 2X    | 4X   | On         | Off | —       | —      |

**Allows you to choose a new starting point in Line and Fill modes (similar to button 1 in manual).**

**Line Mode. Same as “L” in manual. Endpoint becomes starting point of next line.**

**Auto-fill mode. Same as “A” in manual.**

**Puts you in the brush mode and lets you select a brush. Similar to “B” option, except the brush is down only when the pen is down.**

**Shape mode. Similar to brush mode, except you can use your own shape tables. Choose the shape number through the keyboard. See “S” option in manual.**

**Toggles back and forth between full graphics display and the command lines.**

Using the tablet, you have immediate access to command blocks to change the typing options. You can also change the starting position of characters you are about to type by moving the pen. The keyboard is used only for the actual typing of text.

[illegible]

The I, J, K, M directional commands described in the manual are replaced by tablet input. Pressing down on the pen replaces the "L" command and draws a line. Before you go to one of the command blocks, be sure to lift the pen away from the tablet. Otherwise, you may continue to change the position of the movable cursor as you move your pen to the command section.

|   |   |        |       |   |   |   |       |        |        |       |         |          |          |         |        |       |    |            |        |       |   |   |        |
|---|---|--------|-------|---|---|---|-------|--------|--------|-------|---------|----------|----------|---------|--------|-------|----|------------|--------|-------|---|---|--------|
| P | A | L      | E     | T | T | E | —     | Start  | Points | Lines | Fill    | AutoFill | Circle   | Ellipse | Brush  | Shape | —  | Rot./Scale | —      | —     | — | — | FULL   |
|   | — | Repeat | Point | — |   |   | Color | Switch | Small  | Large | Reverse | Dest.    | Non-Dest | Options | —      | Save  | —  | Test       | Forget | —     | — | — | SCREEN |
|   |   |        |       |   |   |   | Color | Switch | —      | Line  | —       | Done     | —        | Brush   | Normal | 2X    | 4X | On         | Off    | C.Bit |   |   |        |

Repeat a previous point. Similar to using the space bar as described in the manual. Each time you press the pen in the palette area, the next point in sequence starts flashing. Moving the pen into the main tablet area before "switching points" or drawing a line will change the point again.

Allows you to select the color for subsequent lines. Color is chosen from the tablet.

Switch the movable point. The flashing point becomes stationary, and the fixed point becomes movable.

Another way to draw a line between the two current points. Use this one if you don't want to disrupt either point by moving the pen onto the main tablet area.

Returns control to the keyboard for saving the panel.

Toggles back and forth between full graphics display and the command lines.

This module uses the lo-res method of defining hi-res shapes. After you have specified the width and height of the shape, the pen controls the cursor's position within the shape. Pressing the pen down on a point turns the point on if it was off and vice versa.

When you are done drawing the shape, press the pen on the “Done” command block to return to normal keyboard control.

Tablet input can also be used to rotate and scale shapes both when viewing them or

when creating a shape using the keyboard option. When viewing a shape, the pen at the upper left corner gives a rotation of 0 and a scale of 1. Moving the pen to the right changes the rotation and moving the pen down increases the scale.

To rotate and scale a shape after creating it using the keyboard option, type “R” or “S” and then use the pen to move the shape. Press the pen down to keep the shape at that size and rotation. Lift the pen away from the tablet until you are ready to rotate or scale again.