

CAT. NO. 26-5141

**Model 2000**  
**Color Graphics Option Kit**  
**Installation Instructions**

## **Introduction**

Welcome to the world of color graphics. By adding the Color Graphics Option Kit to your Monochrome Graphics Option Board (Catalog #26-5140), you can use the full range of colors provided by your color monitor (Catalog #26-5112). This kit provides 640 x 400 points in 15 colors, 8 of which may be displayed simultaneously.

## Installation

**We highly recommend that you have the Color Graphics Option Kit installed by the service technicians at your Radio Shack Service Center.** Doing so not only ensures expert installation, but also enables the technicians to quickly check to make sure all the equipment is functioning properly.

If, however, you do decide to install the kit yourself, follow these steps exactly:

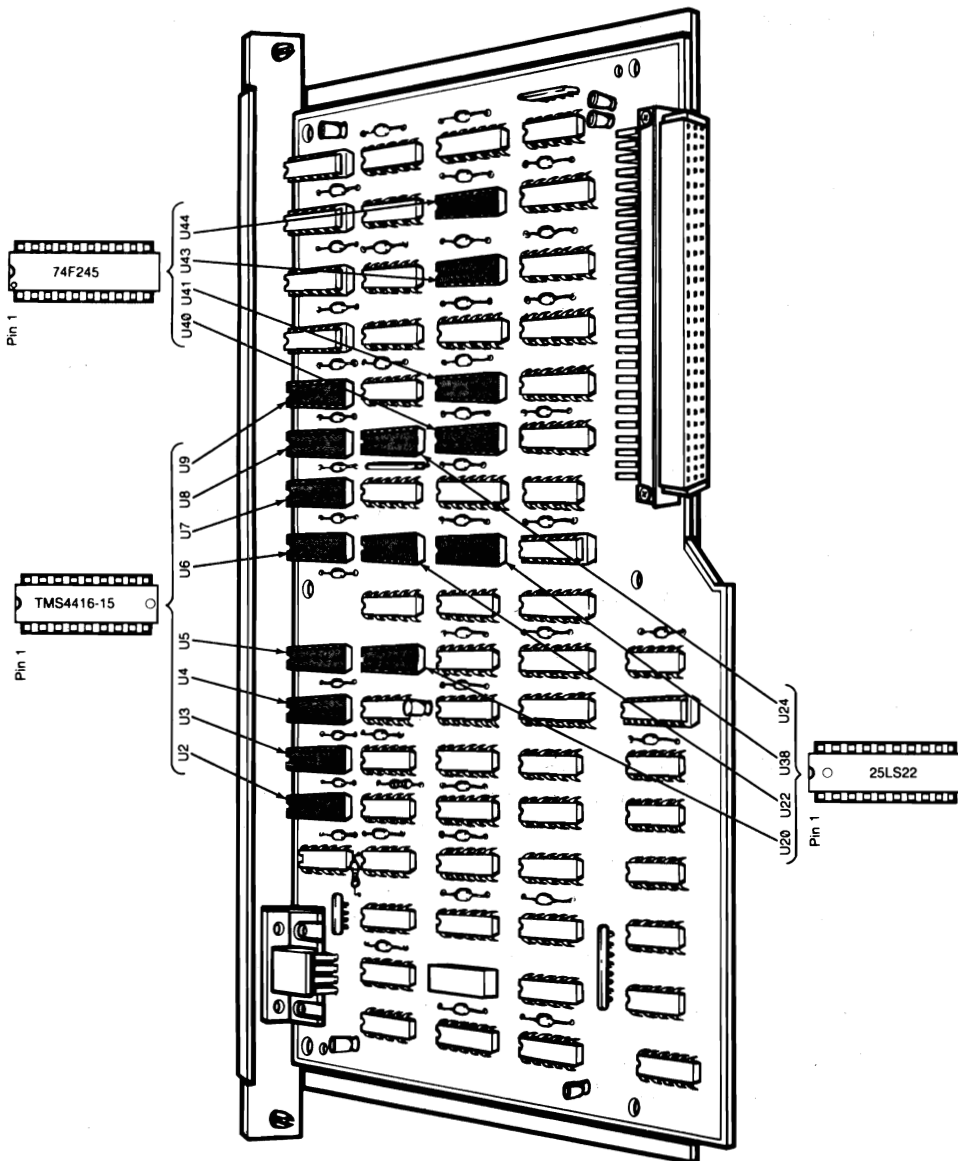
1. **Warning: Turn off all equipment.** If it is on, you could damage the central processing unit, as well as your Monochrome Graphics Option Board.
2. To avoid possible static charge buildup, touch a metal object to ground yourself before you begin.
3. If you have already installed the monochrome board, unlock it by pulling the lock buttons; then carefully remove it.
4. The Color Graphics Option Kit consists of the following parts:
  - Eight TMS4416-15 RAMs
  - Four 74F245 chips
  - Four 25LS22 chips

The monochrome board contains an empty socket for each part.

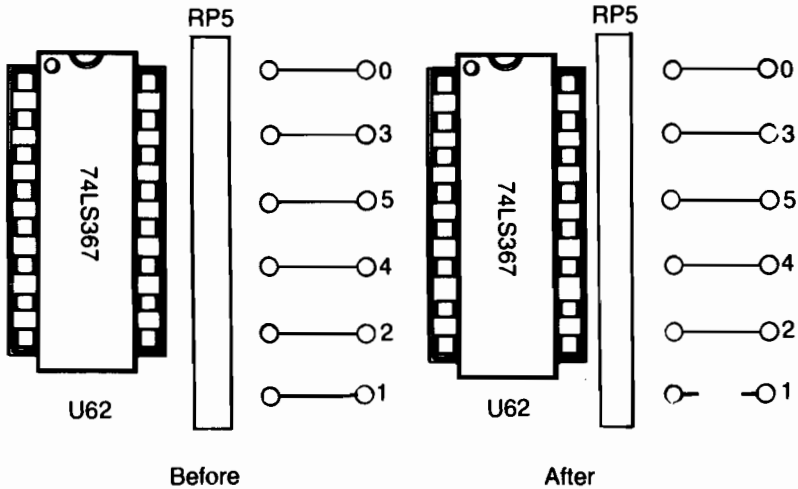
On each slip is a notch or circle indicating Pin 1. When inserting the chips, make sure the Pin 1 indicator lines up with the notch outline on the board. (If you insert the chip incorrectly, you will destroy the board.)

Insert the chips in the empty sockets, as listed here:

- TMS4416-15 RAMs at Locations U2-U9
- 74F245 chips at Locations U40, U41, U43, and U44
- 25LS22 chips at Locations U20, U38, U22, and U24  
(See the illustration on the following page.)



5. Using an X-ACTO® knife or other sharp cutting tool, cut Link #1, which is near Location U62. Be careful; leave all other links uncut. (See the illustration below.)



6. Insert the upgraded board into the main unit. (If you have not done this before, see the instruction sheet provided with the Monochrome Graphics Option Board.)
- 7a. **Users with Floor Stand (Catalog #26-5116):** An Auxiliary Keyboard and Video Cable is provided with the Floor Stand. Connect that cable from the monitor to the main unit as described in the *Floor Stand Owner's Manual*. Then connect the Monitor Power Cord as described in *Introduction to the Model 2000*.
- 7b. **Users without Floor Stand:** Connect the Monitor Signal Cable and Monitor Power Cord from the monitor to the main unit as described in *Introduction to the Model 2000*.

You can now use color graphics on your Model 2000. For information on how to program color graphics using BASIC, read "Introduction to Graphics" in *Model 2000 BASIC Reference*.

