
Chapter 2. Installing Your System Unit

This chapter provides instructions to help you set up your 7581 Computer. For complete system unit dimensions, see Appendix B, "Physical Dimensions."

Before You Begin

- Make sure you have an adequate number of properly grounded electrical outlets for your system unit, display, and printer.
- Prepare a location for your system unit that is dry and as clean as possible. Contaminants can damage the system unit.
- Leave enough space around the system unit for proper cooling and servicing. (The space needed varies depending on the type of mounting used.)
- Have blank diskettes available to create backups of the utility and startup programs.

Task 1. Unpack Your System Unit

CAUTION:

To avoid possible injury while moving or lifting the system unit, ask another person to help you.

Remove the 7581 Computer from its shipping carton, along with any other materials in the carton. Also unpack any components that will be attached externally to the system unit, for example a keyboard, display, mouse, or cables.

Attention

To prevent possible damage to adapters and internal options, do not unpack these components until you are ready to install them.

If any items are missing, contact your place of purchase.

Task 2. Check the Voltage Range

The 7581 Computer has an automatic range-detecting power supply.

Attention

The voltage must be between 100–127 volts or 200–240 volts. If the voltage is not within these limits, you can damage your system unit.

Task 3. Secure the System Unit

Rubber feet are included with the system unit. If you are not installing the system unit in any type of mounting (rack mount or floor stand), attach the feet to the bottom of the system unit, then proceed to the next task.

Task 4. Install Internal Options

Internal options are devices that are installed inside your system unit. Some internal options (memory) are installed directly onto the SBC; other internal options are installed in the drive bays and expansions slots, such as hard drives and adapters.

Note: Some options require device drivers. Refer to the instructions that came with each option to determine if a device driver is required and how to install it.

- If you do not have any options to install, go to “Task 5. Connect the Cables.”
- If you have options to install but you want to set up and check out your system unit before installing the options, go to “Task 5. Connect the Cables.”
- If you have options to install, install them before the system unit is mounted and the cables are attached. For option installation instructions, use the appropriate procedures in Chapter 3, “Installing Options.” Then continue with “Task 5. Connect the Cables.”

Task 5. Connect the Cables

Connect the system unit cables in the following order.

1. Connect all cables between the system unit and the keyboard, the mouse, the display, and any other peripheral devices.
2. Connect the power cords to the system unit, the display, and other peripheral devices.
3. Plug the power cords from the system unit, display, and other devices into properly grounded electrical outlets.
4. Continue with “Task 6. Perform the Check-Out Procedure” on page 2-3.

Task 6. Perform the Check-Out Procedure

Perform the check-out procedure at least one time to make sure the system unit is functioning properly and to familiarize yourself with the power-up sequence and system messages that occur during power up.

The system displays a message to run the Configuration/Setup utility. To run this utility, go to “Using the Configuration/Setup Utility Program” on page 4-7, then return here to complete the system-unit check-out.


1. Turn on your display and adjust the brightness and contrast controls to the approximate midpoint. (You can readjust these controls for personal viewing comfort later.)

2. Turn on the system unit.

The power-on indicator light comes on.

3. Watch the display screen and listen for a single beep.

A series of coded messages should appear on the screen. These messages are part of the normal power-on process that occurs each time you turn on the system unit. The following is a typical power-on sequence.

- a. A blinking cursor appears on the screen.
 - b. After a short time, an icon, depicting a system-unit screen, appears in the upper-right corner,  and the memory-test message appears in the upper-left corner.
 - c. The system unit starts the power-on self test (POST).
4. After the system completes POST, it displays the amount of available memory and indicates the status of the self tests.
 - If POST is completed successfully, the system sounds a single beep. Continue with “Task 7. Finish the Installation” on page 2-4.
 - If an error is detected, the system displays the error code, and either sounds multiple beeps or does not beep at all (depending on the type of error). Record the error message and number of beeps; then go to “Troubleshooting Charts” on page 5-4 to resolve the problem. After correcting the problem, return to the start of this procedure.

Task 7. Finish the Installation

Your system unit hardware is now set up, and you are ready to finish the installation by installing the required software and completing the paperwork. The final steps are different for various configurations and applications, but you can use the following checklist as a guide.

- **Install the operating system.**

Refer to the documentation and instructions supplied with your operating system.

- **Install device drivers**

Refer to the information that came with the options you installed for instructions on installing device drivers.

For instructions on installing the video and Ethernet device drivers, see the readme files on the Embedded Systems CD. The latest updates to these drivers are under *Support Information* on the Web at:

<http://www.clearlake.ibm.com/mfg/bocaraton/Services/IC/>

- **Install your application programs.**

Refer to the documentation and instructions supplied with your application programs.

- **Make backup copies.**

It is very important that you keep a backup copy of the system partition and reference diskette.

- **Record your identification numbers.**

Your system unit has important identification information that you will need if you have it serviced or if you need to order duplicate keys (for system units with keylocks). You should record this information in Appendix A, "System Records" or in another safe place.