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## Chapter 2. Installing Your System Unit

This chapter provides instructions to help you set up your 7587 Industrial Computer. For complete system unit dimensions, see Appendix B, "Physical Dimensions."

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### Before You Begin

- Make sure you know the correct voltage setting for your country. If you are not sure of the voltage setting for your country, contact your place of purchase.
- Make sure you have an adequate number of properly grounded electrical outlets for your system unit, display, and printer.
- Plan to place your system unit in a location that is dry and as clean as possible. Contaminants could cause damage to the system unit.
- Plan to leave enough space around the system unit to allow the system unit's cooling system to work properly.
- Plan to leave enough space around the system unit to allow for proper service access. (This space will vary, depending on the type of mounting to be used.)
- Have this publication handy in case you need additional information.
- Have blank diskettes available to back up utility and startup programs.

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### 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 7587 Industrial Computer from its shipping carton, along with all other materials in that carton. Also unpack all devices to be externally attached to the system unit — for example: power cord, keyboard, monitor, printer, mouse, and cables. (To prevent possible damage, do not unpack delicate internal components yet. Unpack them when you are ready to install them.)

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

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### Task 2. Check the Voltage Setting

**The power supply on the 7587 Industrial Computer has a switch on it that must be manually set before the system unit is powered up.** The switch is located in the area where the power cord plugs into the system unit. It is marked either "110/220" or "115/230."

Use the following instructions to set the switch. You can use a ball-point pen to slide the switch to the correct position.

- If the voltage range in your country is between 90 and 137 volts, set the switch so "110" or "115" is visible.
- If the voltage range in your country is between 180 and 265 volts, set the switch so "220" or "230" is visible.

#### Attention

Be sure the voltage-selection switch is in the correct position. If you set this switch to the wrong position, you might damage your system unit when you turn it on.

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## Task 3. Install Internal Options

Internal options are devices that are installed inside your system unit. Some internal options are mounted directly to the SBC, such as memory modules (SIMMs), cache memory, and video memory. Other internal options are installed in the drive bays, such as diskette drives, and hard disk drives. Adapters, or feature cards, which are mounted on the backplane, are also internal options.

- **If you do not have any options to install inside your system unit**, proceed directly to “Task 4. Secure the System Unit.”
- **If you have options to install but you want to check out your system unit before installing the options**, you can do so now by proceeding to “Task 5. Connect the Cables.” You will have to connect the display, keyboard, and power cable, and then run the Configuration/Setup Utility. You will need to re-run the Configuration/Setup Utility after the options are installed.
- **If you have any options to install inside your system unit**, you should install them now, before the system unit is mounted or cables are attached. For option installation instructions, use the appropriate procedures in Chapter 3, “Installing Options.”

**Note:** As you install the options, be sure to record all pertinent information such as drive types and sizes, memory sizes, identification numbers, and so forth in Appendix A, “System Records.”

After you install all internal options, proceed to the next step.

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## Task 4. Secure the System Unit

Rubber feet are included with the system unit. Make sure the system unit is secured firmly on all four padded feet, then proceed to the next step.

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## Task 5. Connect the Cables

Connect all system unit cables in the following order.

1. Connect all cables between the system unit and the keyboard, the mouse, the display, and all other peripheral devices.
2. Connect the power cords (system-unit side only) to the system unit, the display, and all other peripheral devices.
3. Plug the power cords from the system unit, display, and other devices into properly grounded electrical outlets.

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## Task 6. Perform Power-Up and Check-Out Procedure

### Attention

Before you continue, be sure to set the voltage switch on the power supply correctly for your power source, as explained in “Task 2. Check the Voltage Setting” on page 2-1. If you set it to the wrong position, you might damage your system unit when you turn it on.

You should perform the following power-up and check-out procedure one time just to familiarize yourself with the power-up sequence. In this way, you will become acquainted with what messages to expect. However, if your system unit has never been configured or you changed the configuration by adding or changing features, the screen will display an error message indicating that the Configuration/Setup Utility must be run. In that case, perform “Task 7. Run the Configuration/Setup Utility Program” on page 2-4 after performing this step once; and then perform this step again to complete the system unit check-out.

1. Switch on your display and adjust the Brightness and Contrast controls to the approximate midpoint. (You can readjust these controls for personal viewing comfort after you turn on your system unit.)
2. Switch on the system unit.

You should see the power-on light come on.

3. Continue to check your display screen and watch for a flashing light from the speaker LED. 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 switch on the system unit. The following should occur.

- a. A blinking cursor appears on the screen.
- b. After a short time, an icon showing a system unit screen appears in the upper-right corner,



and the RAM memory test message appears in the upper-left corner.

- c. The system unit starts the power-on self test (POST).
- d. If the POST completes successfully, the amount of available memory is displayed, and a single flash on the speaker LED occurs.
  - If the POST completes successfully, proceed to “Task 7. Run the Configuration/Setup Utility Program” on page 2-4.
  - If the POST does not complete successfully, an error code is displayed. Also, either no flash or multiple flashes on the speaker LED might occur. Check the screen for the error message, and see “Troubleshooting Charts” on page 5-4 to resolve the problem.

**Note:** As mentioned, it will probably be necessary to run the Configuration/Setup Utility, as described in “Task 7. Run the Configuration/Setup Utility Program” on page 2-4, and then return to this step.

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## Task 7. Run the Configuration/Setup Utility Program

If your system unit has never had its Configuration/Setup Utility program run, or if you have changed the configuration by adding or changing a feature, run the Configuration/Setup Utility program as described in “Using the Configuration/Setup Utility Program” on page 4-6, and then return to “Task 6. Perform Power-Up and Check-Out Procedure” on page 2-3.

### Notes:

1. This step assumes you have installed all options in your system unit, as instructed in “Task 3. Install Internal Options” on page 2-2. If you have not, install those options now. For option installation instructions, use the appropriate procedures in Chapter 3, “Installing Options.”
2. To install a device driver (a program that supports a specific type of hardware device), see the instructions that came with the option you installed. Those instructions will tell you if a device driver is required and, if so, how to install it.

If you have no device drivers to install, proceed to the next step.

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## Task 8. 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 your operating system.**

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

— **Install your application programs.**

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

— **Make any backup copies necessary.**

It is very important that you keep a backup copy of the system partition, reference diskette, hard files, and so forth, in case of possible future use.

— **Record your identification numbers.**

Your system unit might have important identification information that you might need if you have it serviced or if you need to order duplicate keys (for keylock-equipped systems). You should record all such information in Appendix A, “System Records” or in another safe place.

— **Complete your registration or warranty forms.**

Complete and return the registration cards that came with your system unit.