PS Series Installation Release Note

This release note covers changes in the installation process of PS Series PowerStations that support full length ISA or PCI cards.

If you have purchased a PS Series PowerStation that supports full length ISA or PCI cards (model numbers PSXX-5 or PSXX-6), please read the following installation modifications.

If you do not have a PowerStation that supports full length ISA or PCI cards, you can ignore these installation modifications and consult the *PowerStation PS Series User Guide*, Chapter 3, for installation instructions.

Precautions

Warning

For safety reasons, the PowerStation should be opened only by qualified service personnel.

Warning

Be sure to observe electrostatic discharge (ESD) precautions while working inside the unit.

Electrostatic Discharge Precautions Preparation

Modern integrated electronic devices, especially CPUs and memory chips, are extremely sensitive to electrostatic discharges (ESD) and fields. Before you disassemble the Power-Station, be sure to observe the following guidelines to protect you and the PowerStation from harm resulting from ESD.

1. To avoid electric shock, always disconnect the power from the PowerStation before you remove the backshell cover or separate the backshell from the front panel. Do not touch any components of the CPU card or other cards while the PowerStation is on.

2. Disconnect power before making any hardware changes. The sudden rush of power as you connect a jumper or install a card may damage sensitive electronic components.

3. Only handle internal components in an ESD-safe location using appropriate grounding methods.

   • Always ground yourself to remove any static charge before you touch the CPU card.

- Be particularly careful not to touch the chip connectors.
- Keep any card in its anti-static packaging when it is not installed in the Power-Station, and place it on a static dissipative mat when you are working on it.
- Wear a grounding wrist strap for continuous protection.

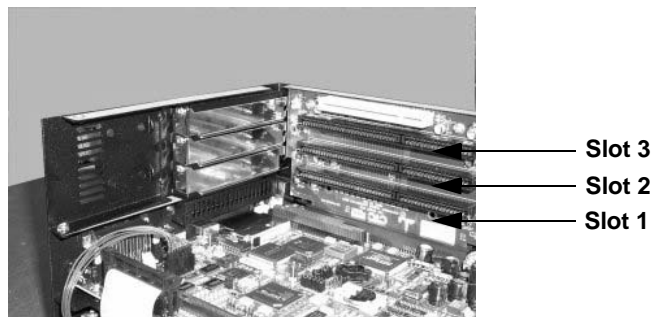# Installation Modifications

Important Note

We recommend that you install the ISA or PCI full length expansion card after you mount the unit. You must install the card last in order to reach all of the mounting clamps to fully mount the unit.

If you choose to install the card first for testing, you will have to remove the card before you can finish mounting the unit. **Read the warning below before you install any cards.**

Warning ⚡	Full length ISA or PCI cards are only supported in Slot 2 or Slot 3 of the riser card in units that support full length cards. Do not place a full length card in Slot 1, or the card may cause an electrical short. The slots are labeled on the unit and in the picture below.

Slot 3
Slot 2
Slot 1

Preparing to Mount the Unit

To prepare to mount the unit, complete the following steps:
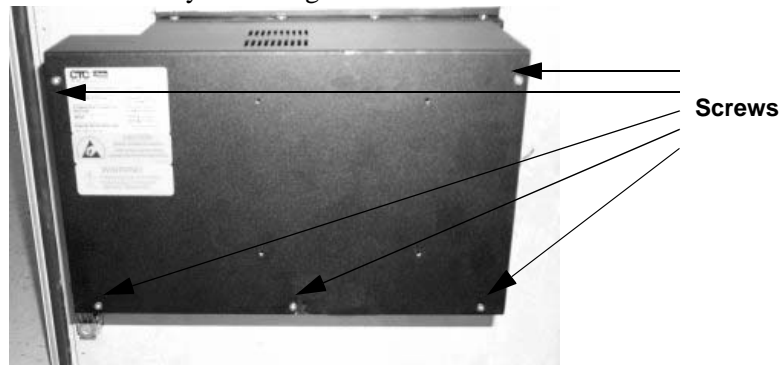
1. Make your cutout.

    If your cutout is already made, ensure you have enough space in your enclosure for the extended cover. You will need at least two inches of clearance around the unit for cooling. You may need three or more inches of clearance to easily mount the unit.

    Important   The full-length ISA/PCI supported PowerStation is **not** a drop-in replacement for a PS10, the PS50, or the PS51.

2. Angle the unit through the enclosure, as shown below:

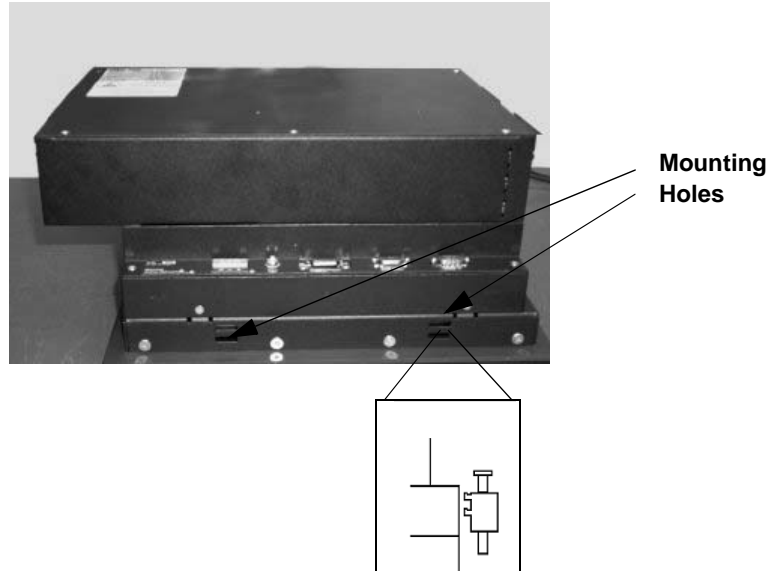3. Remove the back cover by removing the 5 screws shown below. .

Screws

Mounting the PS10, PS12, and PS15

If you have purchased a PS10, PS12, or PS15, complete the following steps to mount the unit. If you have purchased a PS50 or PS51, skip to the next section for instructions on mounting your unit.

1. Using the mounting clamps, mount all sides **except** the elongated side.

    *   If you have a system with a 10.4"or 12.1" display, attach 5 of the 6 mounting clamps, with their screws, to the back of the unit in the spaces provided. You will place 2 clamps at the top and bottom of the unit and 1 on the side.
    *   If you have a system with a 15.1" display, attach 6 of the 8 mounting clamps, with their screws, to the back of the unit in the spaces provided. You will place 2
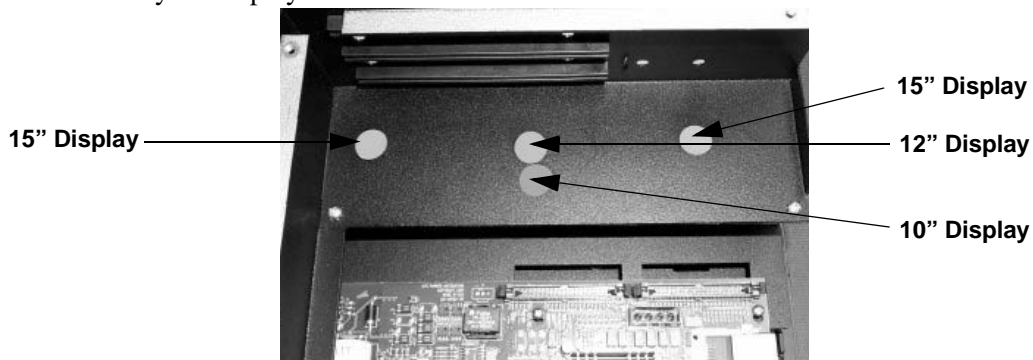
clamps at the top and bottom of the unit and 2 on the side.

• The prongs at the bottom of each clamp should face backward, as shown in the following illustration, and they should hook into the slots in each space. The end of each screw should point toward the front of the enclosure.

**Mounting
Holes**

2. Attach the mounting clamp(s) on the elongated side.

To do this, you will need to access the mounting clamps with a screwdriver placed through the pre-cut holes. Below is a picture of the pre-cut holes. Use the hole(s) for your display size.

15" Display

15" Display

12" Display

10" Display

After the system is mounted, you can install the expansion card(s).

See Chapter 4, Performing Internal Maintenance in the *PowerStation PS Series User Guide* for more information about installing expansion cards.

Not all slots in your unit support full length ISA or PCI cards. Read the warning on page 2 of this release note before installing any full length expansion cards.

Mounting the PS50 and PS51

If you have purchased a PS50 or PS51, complete the following steps to mount the unit:

1. Mount the unit by screwing the provided nuts onto the 14 mounting screws.

Note   You will need a wrench to mount the elongated side.

2. Tighten the nuts to a torque setting of 17 in./lb. in a criss-crossed sequence.

After the system is mounted, you can install the expansion card(s).

See Chapter 4, Performing Internal Maintenance in the *PowerStation PS Series User Guide* for more information about installing expansion cards.

Not all slots in your unit support full length ISA or PCI cards. Read the warning on page 2 of this release note before installing any full length expansion cards.