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SPARC/CPU-20VT/SBus-AccKit
Installation Guide

Edition No. 1
July 1996

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How to Install the SPARC/CPU-20VT/SBus-AccKit

This manual describes how to install a SPARC/CPU-20VT/SBus-AccKit on the SPARC/CPU-20VT.

Features of SPARC/ CPU-20VT/ SBus-AccKit

The SPARC/CPU-20VT/SBus-AccKit consists of 2 major parts, both being installed in the 4th slot the SPARC/CPU-20VT occupies on the VMEbus backplane:

- the front panel to shield the slot.
- the VME power module.
- 4 standoffs and 4 screws to mount the SBus modules.
- 3 standoffs and 6 screws to mount the VME power module.

For further information refer to the *SPARC/CPU-20VT Technical Reference Manual*.

History of manual publication

Edition No.	Date	Description
1	July 1996	First Print

Safety Note

To ensure proper functioning of the product during its usual lifetime, take the following precautions before handling the CPU board, any of its components, or a component of the SPARC/CPU-20VT/SBus-AccKit.

CAUTION



Malfunction or damage to the CPU board, the additional front-panel, or connected components:

Electrostatic discharge and incorrect board or module installation and uninstallation can damage circuits or shorten their lifetime.

- Before installing or uninstalling a component of the accesory kit, read this Installation Guide.
- Before installing or uninstalling the SPARC/CPU-20VT, read the *SPARC/CPU-20VT Installation Guide* and ensure that you apply all safety notes given by that guide.
- Before touching integrated circuits, ensure that you are working in an electrostatic free environment.
- Before installing or uninstalling the SPARC/CPU-20VT in a VME rack:
  - Check all installed boards for steps that you have to take before turning off the power.
  - Take those steps.
  - At last turn off the power.

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Installation

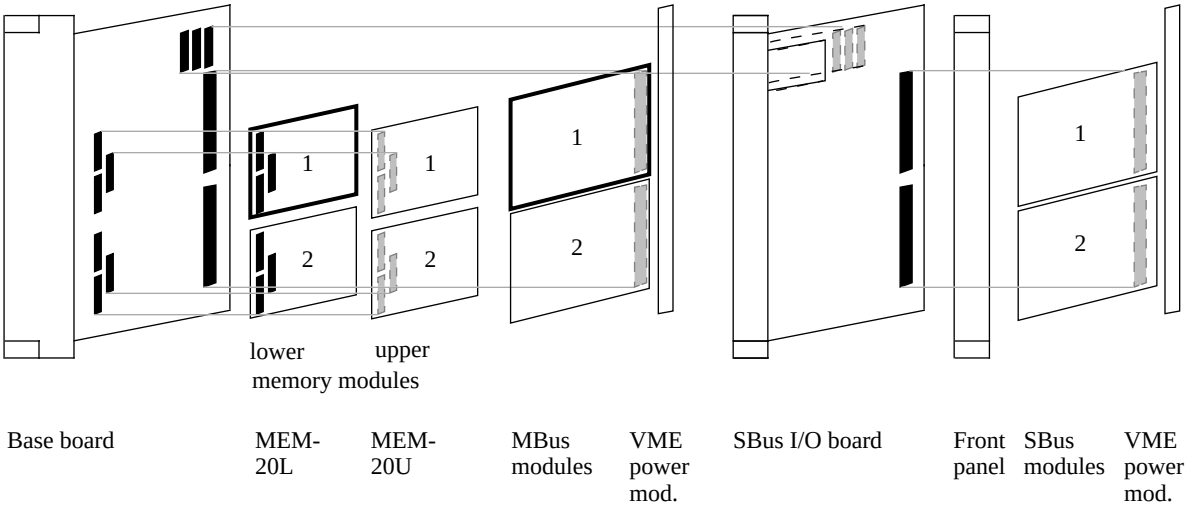
IMPORTANT

During the installation you will handle screws and standoffs of different sizes.

- If you uninstall components, ensure that you remember which screw or standoff fits in which place.

General procedure

To get an overview of the relevant locations have a look at the following figure and compare it to your configuration of SBus, memory and MBus modules:



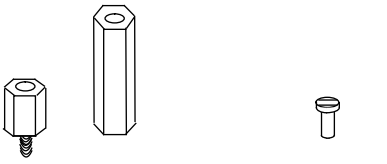
IMPORTANT

When uninstalling or installing MBus or memory modules, note that at least the following components are required to be connected to the base board (to locate them see figure above):

- the MBus module 1
- and the lower memory module 1 (MEM-20L 1).

To install a SPARC/CPU-20VT/SBus-AccKit follow the steps below:

1. Note that each SPARC/CPU-20VT/SBus-AccKit includes 10 screws, 3 tall and 4 little standoffs.



Little and tall standoff Screw

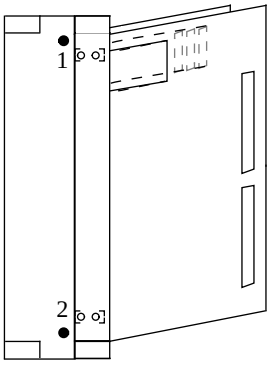
2. Remove the SPARC/CPU-20VT from the VME rack according to the SPARC/CPU-20VT Installation Guide.
3. Separate the base board and the SBus I/O board (see respective section on page 5).
4. Install the VME power module.
5. If applicable, install the standoffs for the SBus modules (see respective section on page 8).
6. Install the front panel for the SBus modules (see respective section on page 9).
7. If applicable, install the SBus modules. Refer to the respective *SBus module Installation Guide* which is delivered together with the SBus module you use and see the respective section on page 10.
8. To assemble and install the SPARC/CPU-20VT follow the steps in the reverse order.

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Separating the Base Board and the SBus I/O Board

Follow the steps below:

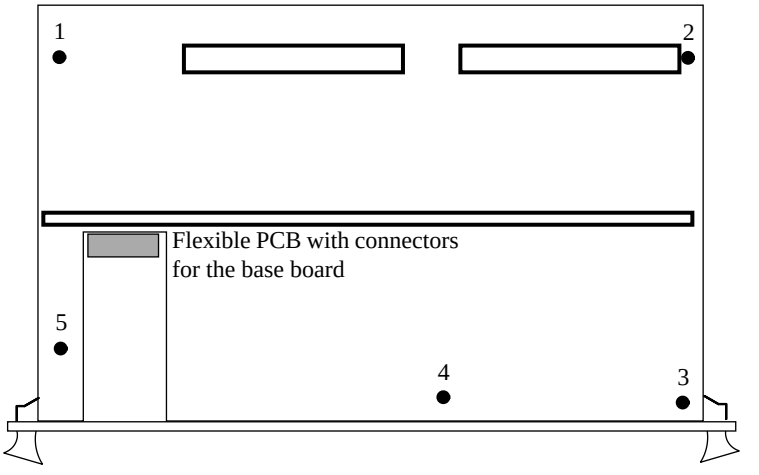
1. Disassemble the 2 screws on the front panel marked as 1 and 2 in the figure below:



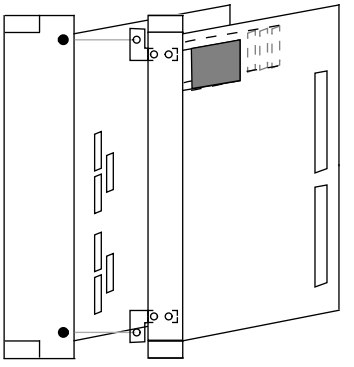
Base board and SBus I/O board

2. Disassemble the 5 screws on the SBus I/O board marked as 1, 2, 3, 4, and 5 in the figure below:

SBus I/O board

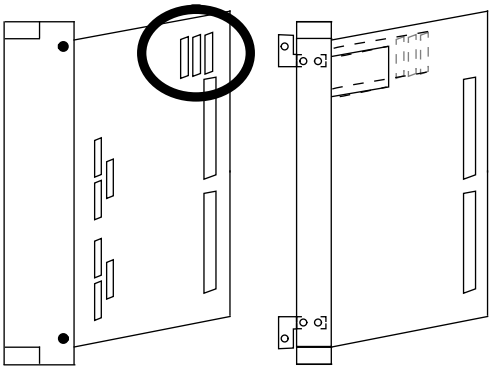


3. Separate the base board from the SBus I/O board carefully and only to a slight extent to prepare for disconnecting the SBus I/O board's flexible PCB from the base board:



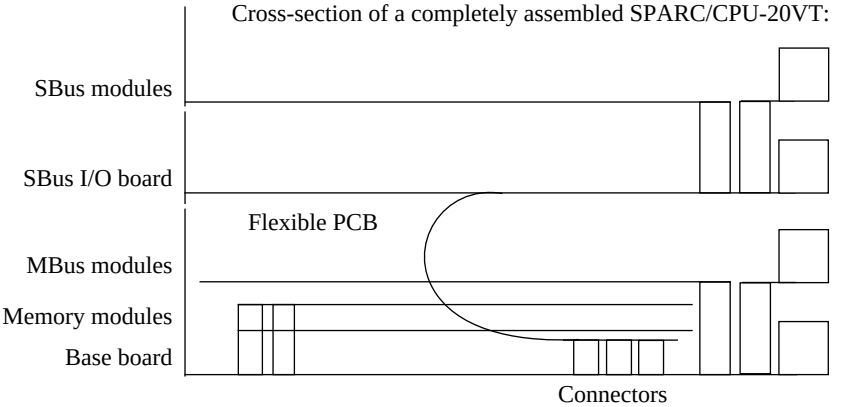
Base board SBus I/O board

4. Unplug the connectors on the SBus I/O board's flexible PCB from the base board's connectors:



Base board SBus I/O board

Cross-section of a completely assembled SPARC/CPU-20VT:



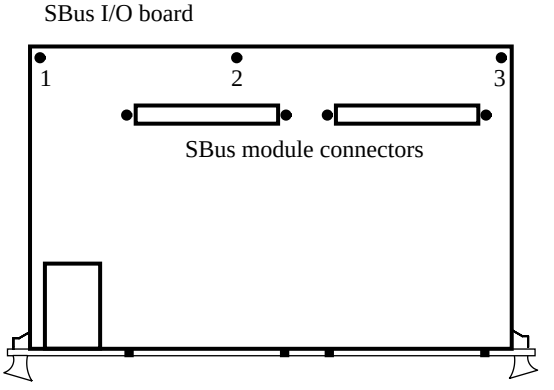
After having taken the steps above, the SPARC/CPU-20VT is separated into its base board and its SBus I/O board.

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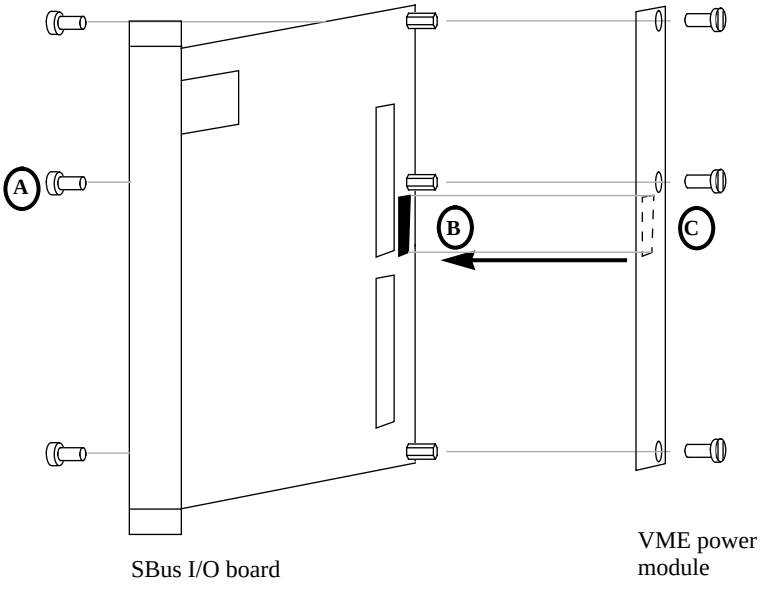
Installing the VME Power Module

Follow the steps below:

1. Note the 3 screw locations on the SBus I/O board (marked as 1, 2, and 3 in the figure below). They are of interest when installing the VME power module as described in the next few steps.



2. To install the VME power module assemble the 3 standoffs in locations 1, 2, and 3 on the SBus I/O board (see the figure above) using 3 screws as shown at location A in the figure below.



3. Plug the VME power module into the SBus I/O board's power connector as shown in the figure above at location B.

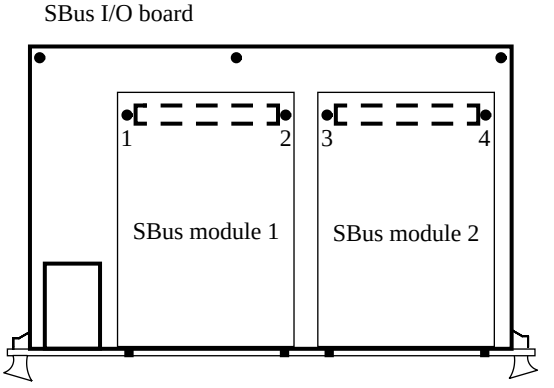
4. Fasten the 3 screws on the 3 standoffs as shown at location C in the figure above.

After having taken the steps above, the VME power module is installed.

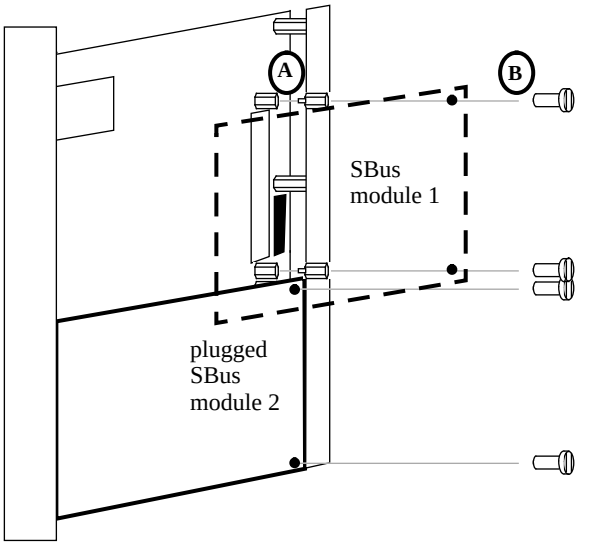
Installing the Standoffs for the SBus Modules

Follow the steps below:

1. Note the 4 screw locations on the SBus modules (marked as 1, 2, 3, and 4 in the figure below). They are of interest when installing the standoffs for the SBus modules as described in the next few steps.



2. Assemble 4 standoffs on top of the standoffs already installed at locations 1 to 4 on the SBus I/O board (see the figure above) using standoffs as shown at location A in the figure below.



After having taken the steps above, the standoffs are installed and the SBus I/O board is ready for installing the SBus modules (see respective section on page 10).

3. If you do not install an SBus module, you may want to fasten the screws as shown at location B in the figure above.

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Installing the Accessory Kit Front Panel

Follow the steps below:

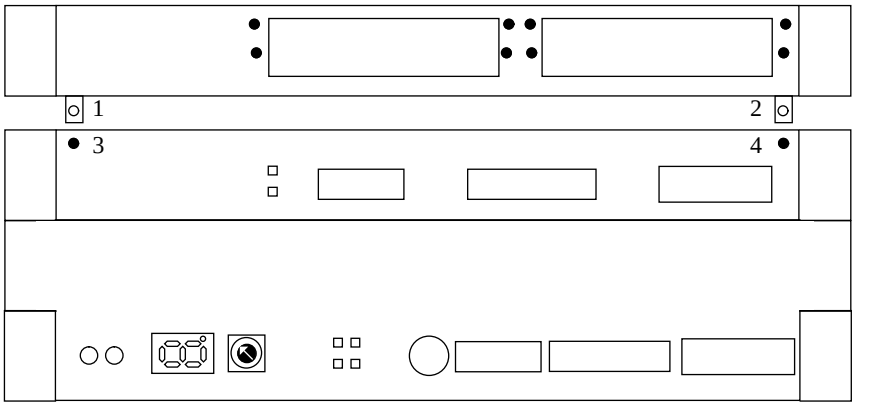
1. Note the 2 small carriers of the accessory kit front panel marked as 1 and 2 in the figure below and the 2 screw locations on the SBus I/O board's front panel marked as 3 and 4. They are of interest when installing the front panel as described in the next step.

Front panel of:

– accessory kit

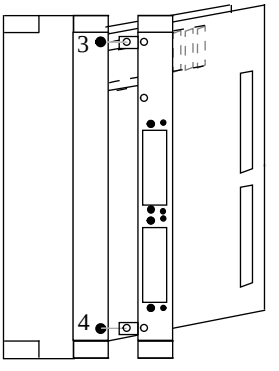
– SBus I/O board

– base board



2. Remove the 2 screws from the locations 1 and 2 on the accessory kit front panel (see the figure above).

3. Fasten the 2 screws at locations 3 and 4 on the SBus I/O board's front panel (see the figure above) as shown in the figure below:



Base board and SBus I/O board

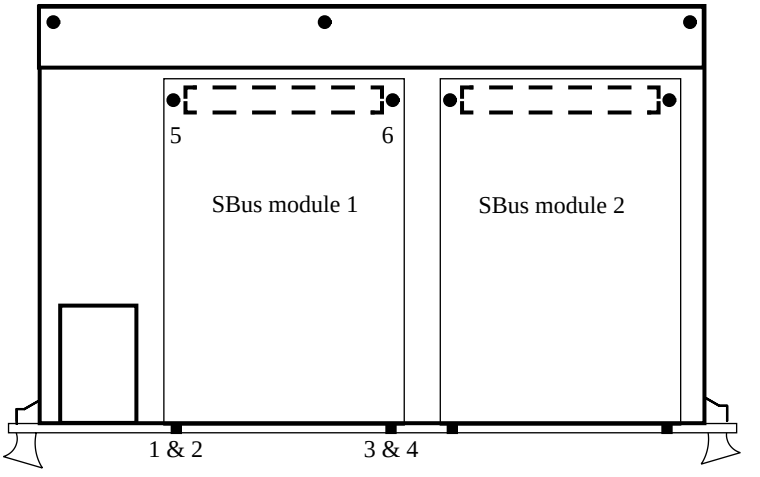
Accessory kit front panel

Installing an SBus Module

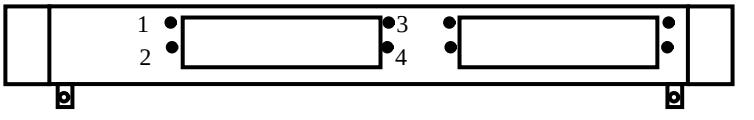
After having installed the standoffs, the VME power module, and the accessory kit front panel, the SBus I/O board is ready for installation of the SBus modules (see the respective *SBus module Installation Guide* which is delivered together with the SBus module you install).

- Note the 4 screws for the mechanical connection between the backplate of an SBus module and the front-panel of the fourth VMEbus slot. The screws are already fastened on the accessory kit front panel. For the SBus module 1 they are marked as 1, 2, 3 and 4 in the figure below.
- The screws marked as 5 and 6 being also components of the SPARC/CPU-20VT/SBus-AccKit are delivered separately.

SBus I/O board with installed accessory kit front panel,
VME power module and SBus modules



Accessory kit front panel



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