Bull ESCALA E Series Hardware Tasks: Where Do I Find the Information I Need?

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Bull ESCALA E Series Hardware Tasks: Where Do I Find the Information I Need?

Hardware

December 1997

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ORDER REFERENCE 86 A1 92PN 01

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Printed in France

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Introduction

The goal of this booklet is to help you quickly find any required information related to the main hardware tasks, such as upgrading your system hardware or using the system devices.

This booklet is organized in macro-topics; for each macro-topic the related hardware tasks are included. For each hardware task, the sequence you need to follow until you reach the relevant information is indicated.

Most of this information is available both online and on paper. The paths here given to reach the information you are looking for must be followed either if you are using online documentation or paper books.

Here is an example, supposing you need to remove the front panel from your system.

Scroll the booklet until you find the macro-topic (**System Panels** in this example).

System Panels

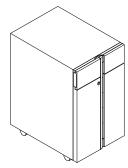
Front Panel Removal
 Upgrading the System, <u>Preparing Your System</u>
 for an Upgrade, → <u>Preliminary and Restart</u>
 <u>Operations</u>, → <u>System Panels</u>, → <u>Front Panel</u>
 Removal

where:

 Front Panel Removal is the description of the hardware task, *Upgrading the System* is the title of the manual that you are required to consult, <u>Preparing</u> <u>Your System for an Upgrade</u> is the chapter, <u>Preliminary and Restart Operations</u> is the paragraph, <u>System Panels</u> is a sub-paragraph, and <u>Front Panel Removal</u> is the sub-paragraph that really contains the information you need.

Note: If you find any unknown term or concept when consulting a specific manual, have a look at the glossary placed at the end of that manual.

System Setup and Features



Base Unit

- Setup
 - Setting Up the System, **System Setup Roadmap** and, in particular,
 - Setting Up the System, Base Unit Setup Procedure (the whole chapter)
- · Presentation and Features
 - Setting Up the System, Knowing Your New

 $\underline{\text{System}}, \to \underline{\text{System Features Overview}}$

or

Operator's Guide, Description of the System, \rightarrow

System Presentation

- Operator Panel
 - Operator's Guide, Description of the System, \rightarrow Operator Panel

Keys

Setting Up the System, Base Unit Setup

 $\underline{\textbf{Procedure}}, \rightarrow \underline{\textbf{Inserting the Operator Panel Key}}$

and

Operator's Guide, Description of the System, →

Operator Panel, → Key Mode Switch

Power Cord

Setting Up the System, Base Unit Setup

<u>Procedure</u>, → <u>Connecting the Power Cord</u>

and

Setting Up the System, What To Do When a

<u>Problem Occurs</u>, → <u>System Power</u>

Starting and Stopping Procedures
 Setting Up the System, Base Unit Setup
 Procedure, → Starting the System for the First
 Time

and

Operator's Guide, Maintaining the System, \rightarrow Starting and Stopping the System

Maintaining Configuration Variables (Open Firmware)
 Operator's Guide, Maintaining the System, →
 Maintaining System Configuration Variables

Disk Expansion Unit

- Setup
 Disk Expansion Unit Quick Set Up (the whole guide)
- Presentation and Features
 Using the Disk Expansion Unit, <u>Disk Expansion</u>
 <u>Unit Description</u>, → <u>Knowing the Disk</u>
 Expansion Unit
- Operator Panel
 Using the Disk Expansion Unit, <u>Disk Expansion</u>
 <u>Unit Description</u>, → <u>Knowing the Disk</u>
 <u>Expansion Unit</u>, → <u>Disk Expansion Unit</u>
 <u>Operator Panel</u>
- Keys
 Using the Disk Expansion Unit, Disk Expansion
 Unit Description, → Knowing the Disk

Expansion Unit, → Disk Expansion Unit

 $\underline{\text{Operator Panel}}, \to \underline{\text{Key Mode Switch}}$

- Starting and Stopping (daily)
 Using the Disk Expansion Unit, Starting and Stopping Procedures
- Starting and Stopping (for maintenance purposes) (maintenance task)
 Disk Expansion Unit Service Guide, Hardware Component Installation, → Preliminary and Restart Operations, → Preliminary Operations (for stopping) and Restart Operations (for starting)
- Configuration
 Using the Disk Expansion Unit, <u>Disk Expansion</u>
 <u>Unit Configuration</u> (the whole chapter)

System Panels



- Device Shutter Opening
 Upgrading the System, Preparing Your System for an Upgrade, → Preliminary and Restart

 Operations, → System Panels, → Device Shutter Opening
- Device Shutter Closing
 Upgrading the System, <u>Preparing Your System</u>
 for an <u>Upgrade</u>, → <u>Preliminary and Restart</u>
 <u>Operations</u>, → <u>System Panels</u>, → <u>Device</u>
 <u>Shutter Closing</u>
- Front Panel Removal
 Upgrading the System, <u>Preparing Your System</u>
 for an Upgrade, → <u>Preliminary and Restart</u>
 <u>Operations</u>, → <u>System Panels</u>, → <u>Front Panel</u>
 Removal
- Front Panel Installation
 Upgrading the System, <u>Preparing Your System</u>
 for an Upgrade, → <u>Preliminary and Restart</u>
 <u>Operations</u>, → <u>System Panels</u>, → <u>Front Panel</u>
 Installation
- Lateral Panel Removal
 Upgrading the System, Preparing Your System for an Upgrade, → Preliminary and Restart

 Operations, → System Panels, → Lateral Panel Removal
- Lateral Panel Installation
 Upgrading the System, Preparing Your System for an Upgrade, → Preliminary and Restart
 Operations, → System Panels, → Lateral Panel Installation

Media Devices

General Tasks

Description of the Device Areas
 Upgrading the System, Devices, → Device
 Description

and

Using the Disk Expansion Unit, Disk Expansion
Unit Configuration, → Disk Expansion Unit
Configuration Description

Drives Configuration and SCSI-ID
 Upgrading the System, <u>Devices</u>, → <u>Device</u>
 <u>Configuration</u>

and

Using the Disk Expansion Unit, Disk Expansion
Unit Configuration, → Disk Expansion Unit
Configuration Rules

 SCSI Connections (maintenance task)
 Maintenance and Service Guide, SCSI Cables
 Description and Connection (the whole chapter)
and

Disk Expansion Unit Service Guide, <u>SCSI Cables</u> <u>Description and Connection</u> (the whole chapter)

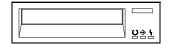
CD-ROM



- Drive Description and Usage
 Operator's Guide, <u>Using Devices and Tools</u>, → <u>Using the CD-ROM Drive</u>
- Drive SCSI-ID
 Disks and Tapes Configuration Information,
 CD-ROM Drives, → The paragraph related to your
 CD-ROM drive model
- CD-ROM Preventive Maintenance
 Operator's Guide, Using Devices and Tools, →
 Using the CD-ROM Drive, → Handling CD-ROMs
- Drive Upgrading
 Upgrading the System, <u>Devices</u>, → <u>Device</u>
 <u>Upgrading</u>, → <u>Media Drive Upgrading</u>
- Drive Removal
 Upgrading the System, <u>Devices</u>, → <u>Device</u>

 Removal, → Media Drive Removal

QIC Tape

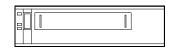


- Drive Description and Usage
 Operator's Guide, <u>Using Devices and Tools</u>, → <u>Using the QIC Tape Drive</u>
- Drive SCSI-ID
 Disks and Tapes Configuration Information,

 Tape Drives, → The paragraph related to your tape drive model
- QIC Tape Cartridges Preventive Maintenance
 Operator's Guide, <u>Using Devices and Tools</u>, →
 <u>Using the QIC Tape Drive</u>, → <u>Handling QIC Tape Cartridges</u>
- Drive Upgrading
 Upgrading the System, <u>Devices</u>, → <u>Device</u>
 <u>Upgrading</u>, → <u>Media Drive Upgrading</u>
- Drive Removal
 Upgrading the System, <u>Devices</u>, → <u>Device</u>

 <u>Removal</u>, → <u>Media Drive Removal</u>

8mm Tape



- Drive Description and Usage
 Operator's Guide, <u>Using Devices and Tools</u>, → <u>Using the 8 mm Tape Drive</u>
- Drive SCSI-ID
 Disks and Tapes Configuration Information,

 Tape Drives, → The paragraph related to your tape drive model
- 8 mm Tape Preventive Maintenance
 Operator's Guide, Using Devices and Tools, →
 Using the 8 mm Tape Drive, → Handling 8 mm
 Tapes
- Drive Upgrading
 Upgrading the System, <u>Devices</u>, → <u>Device</u>
 <u>Upgrading</u>, → <u>Media Drive Upgrading</u>
- Drive Removal
 Upgrading the System, <u>Devices</u>, → <u>Device</u>

 <u>Removal</u>, → <u>Media Drive Removal</u>

4mm Tape



- Drive Description and Usage
 Operator's Guide, <u>Using Devices and Tools</u>, → <u>Using the 4 mm Tape Drive</u>
- Drive SCSI-ID
 Disks and Tapes Configuration Information,
 <u>Tape Drives</u>, → The paragraph related to your tape drive model
- 4 mm Tape Preventive Maintenance
 Operator's Guide, <u>Using Devices and Tools</u>, →
 <u>Using the 4 mm Tape Drive</u>, → <u>Handling 4 mm Tapes</u>
- Drive Upgrading
 Upgrading the System, <u>Devices</u>, → <u>Device</u>
 <u>Upgrading</u>, → <u>Media Drive Upgrading</u>
- Drive Removal
 Upgrading the System, <u>Devices</u>, → <u>Device</u>

 <u>Removal</u>, → <u>Media Drive Removal</u>

3.5-Inch Diskette



- Drive Description and Usage
 Operator's Guide, <u>Using Devices and Tools</u>, → <u>Using the 3.5-Inch Diskette Drive</u>
- Drive Configuration
 Disks and Tapes Configuration Information,
 3.5 Inch Diskette Drives, → The paragraph related to your 3.5-inch diskette drive model
- Diskette Preventive Maintenance
 Operator's Guide, Using Devices and Tools, →
 Using the 3.5-Inch Diskette Drive, → Handling Diskettes
- Drive Installation/Removal (maintenance task)
 Maintenance and Service Guide, <u>Hardware</u> <u>Component Installation</u>, → <u>3.5-Inch Diskette</u> <u>Drive</u>

Hard Disk Devices



Description of the Device Areas
 Upgrading the System, <u>Devices</u>, → <u>Device</u>
 <u>Description</u>

and

Using the Disk Expansion Unit, <u>Disk Expansion</u>
<u>Unit Configuration</u>, → <u>Disk Expansion Unit</u>
<u>Configuration Description</u>

Configuration and SCSI-ID
 Upgrading the System, <u>Devices</u>, → <u>Device</u>

 <u>Configuration</u>

and

Using the Disk Expansion Unit, <u>Disk Expansion</u>
<u>Unit Configuration</u>, → <u>Disk Expansion Unit</u>
<u>Configuration Rules</u>

- Hard Disk Description and Usage
 Operator's Guide, <u>Using Devices and Tools</u>, → <u>Using Hard Disks Drives</u>
- Installing a Hard Disk
 Upgrading the System, <u>Devices</u>, → <u>Device</u>
 <u>Upgrading</u>, → <u>Hard Disk Drive Upgrading</u>, →
 <u>Add a Hard Disk Drive to a Disk Cage</u>
- Installing a Disk Cage (maintenance task)
 Maintenance and Service Guide, Hardware Component Installation, → Disk Cage, → Installation

and

Disk Expansion Unit Service Guide, Hardware Component Installation, → Disk Cage, → Installation

Removing a Hard Disk
 Upgrading the System, <u>Devices</u>, → <u>Device</u>
 Removal, → <u>Hard Disk Drive Removal</u>

- Hot Swapping
 Upgrading the System, <u>Devices</u>, → <u>Device Hot Swapping</u>
- Removing a Disk Cage (maintenance task)
 Maintenance and Service Guide, Hardware Component Installation, → Disk Cage, → Removal

and

Disk Expansion Unit Service Guide, <u>Hardware Component Installation</u>, \rightarrow <u>Disk Cage</u>, \rightarrow <u>Removal</u>

 SCSI Connections and Configurations (maintenance task)
 Maintenance and Service Guide, SCSI Cables
 Description and Connection (the whole chapter) and
 Disk Expansion Unit Service Guide SCSI Cables

Disk Expansion Unit Service Guide, <u>SCSI Cables</u> <u>Description and Connection</u> (the whole chapter)

Peripherals

Keyboard



- Connection

 Setting Up the System, Base Unit Setup

 Procedure, → Connecting Devices, →

 Connecting Keyboard and Mouse
- Usage
 Operator's Guide, <u>Using Devices and Tools</u>, → <u>Using the Keyboard</u>
- Problems with the Keyboard

 Setting Up the System, What To Do When a

 Problem Occurs, → Keyboard

Mouse



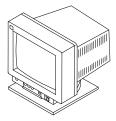
- Connection

 Setting Up the System, Base Unit Setup

 Procedure, → Connecting Devices, →

 Connecting Keyboard and Mouse
- Usage
 Operator's Guide, <u>Using Devices and Tools</u>, →
 <u>Using the Mouse</u>
- Preventive Maintenance
 Operator's Guide, <u>Using Devices and Tools</u>, → <u>Using the Mouse</u>, → <u>Handling the Mouse</u>
- Problems with the Mouse Setting Up the System, What To Do When a Problem Occurs, → Mouse

Terminal



- Connection
 Setting Up the System, Base Unit Setup
 Procedure, → Connecting Devices, →
 Connecting Terminals
- Setup
 Terminals and Printers Configuration Guide,
 <u>Configuring Terminals</u>, → The paragraph related to your terminal model

and
Terminal and Printer Connections

 Problems with the Terminal Setting Up the System, What To Do When a Problem Occurs, → Monitor

Printer



- Connection

 Setting Up the System, Base Unit Setup

 Procedure, → Connecting Devices, →

 Connecting Printers
- Setup

 Terminals and Printers Configuration Guide,

Configuring Printers, → The paragraph related to your printer model and

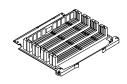
Terminal and Printer Connections

Problems with the Printer

Setting Up the System, What To Do When a

Problem Occurs, → Printer

Memory



- Description

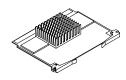
 Upgrading the System, Memory, → Memory

 Description
- Configuration

 Upgrading the System, Memory. → Memory

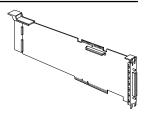
 Configuration
- Add Memory to the System Planar
 Upgrading the System, Memory, → Memory
 <u>Upgrading</u>, → Memory Upgrading on System
 Planar
- Add Memory to Memory Risers
 Upgrading the System, Memory
 <u>Memory</u>, → Memory
 <u>Upgrading</u>, → Memory Upgrading on Memory
 <u>Risers</u>
- Add Memory Banks on Memory Risers
 Upgrading the System, Memory. → Memory
 <u>Upgrading</u>, → Adding a Memory Bank on
 <u>Memory Risers</u>
- Handling of Memory Errors (maintenance task)
 Maintenance and Service Guide, Maintenance Tools, → Handling of Single Memory Errors

CPU Cards



- Description *Upgrading the System*, **CPU's**, → **CPU Description**
- Configuration
 Upgrading the System, <u>CPU's</u>, → <u>CPU</u>
 <u>Configuration</u>
- Upgrading Upgrading the System, CPU's, → CPU Upgrading
- Removal Upgrading the System, CPU's, → CPU Removal

Controllers



- Description
 Upgrading the System, Controllers, → Controller
 Description
- Configuration

 Upgrading the System, Controllers, → Controller

 Configuration
- Installation
 Upgrading the System, Controllers, → Controller
 Installation
- Controller Planar Upgrading (maintenance task)
 Maintenance and Service Guide, Hardware Component Installation, → RPE Planar (Replacement with FPE Planar)
- Removal
 Upgrading the System, Controllers, → Controller
 Removal
- SCSI Connections
 (maintenance task)
 Maintenance and Service Guide, SCSI Cables
 Description and Connection (the whole chapter)
 and
 Disk Expansion Unit Service Guide, SCSI Cables
 Description and Connection (the whole chapter)
- PCI/ISA Busses and Devices
 Maintenance and Service Guide, <u>System</u>
 <u>Hardware</u>, → <u>PCI/ISA Busses and Devices</u>
- List of Supported Controllers
 Maintenance and Service Guide, PCI/ISA
 Controller List appendix

Maintenance Features

These tasks should be performed by technicians or trained people.



General Maintenance Tasks

The following points include information which is relevant to both the base unit and the disk expansion unit.

- Maintenance Tools Description
 Maintenance and Service Guide, <u>Maintenance</u>
 <u>Tools</u> chapter
- Running Off Line Tests
 Maintenance and Service Guide, <u>Maintenance</u>
 <u>Tools</u>, → <u>Stand-By Menu</u>
- Running On Line Tests

 AIX Diagnostic Information, the whole manual
- Operator Panel Codes and System Messages
 Maintenance and Service Guide, System Status
 Indicators appendix
- Remote Maintenance
 Maintenance and Service Guide, Maintenance
 Tools, → Remote Maintenance
- Service Lines
 Maintenance and Service Guide, <u>Maintenance</u>
 <u>Tools</u>, → <u>Service Lines</u>
- Firmware Updating
 Maintenance and Service Guide, Maintenance
 Tools, → Firmware Updating
- System Configuration Variables and Flags
 Maintenance and Service Guide, <u>Maintenance</u>
 <u>Tools</u>, → <u>Stand-By Menu</u>
 and
 Maintenance and Service Guide, <u>Maintenance</u>
 Maintenance
- Open Firmware
 Maintenance and Service Guide, Maintenance
 Tools, → Open Firmware

Tools, → **Open Firmware**

Handling of a Dead System
 Maintenance and Service Guide, Maintenance
 Tools, → Handling of a Dead System

- Handling of Power and Fan Errors
 Maintenance and Service Guide, <u>Maintenance</u>
 <u>Tools</u>, → <u>Handling of Power and Fan Errors</u>
- Handling of Memory Errors
 Maintenance and Service Guide, Maintenance
 Tools, → Handling of Single Memory Errors

Maintenance Tasks Specific for the Base Unit

- Description of the Hardware Components
 Maintenance and Service Guide, <u>System</u>
 <u>Hardware</u>, → <u>Description of the Hardware</u>

 Components
- Description of the Unit Internal Connectors Maintenance and Service Guide, <u>System</u> Hardware, → <u>Internal Connectors</u>
- Faulty Component Replacement
 Maintenance and Service Guide, Hardware
 Component Installation chapter
- SCSI Connections and Configuration Examples Maintenance and Service Guide, SCSI Cables Description and Connection chapter

Maintenance Tasks Specific for the Disk Expansion Unit

- Description of the Hardware Components
 Disk Expansion Unit Service Guide, Disk

 Expansion Unit Hardware Components, →
 Hardware Components Description
- Description of the Unit Internal Connectors
 Disk Expansion Unit Service Guide, <u>Disk</u>
 Expansion Unit Hardware Components, →
 Internal Connectors
- Faulty Component Replacement
 Disk Expansion Unit Service Guide, Hardware
 Component Installation chapter
- SCSI Connections and Configuration Examples
 Disk Expansion Unit Service Guide, SCSI Cables
 Description and Connection chapter

Online Documentation



- Accessing the Online Documentation from CD-ROM Hypertext Information Base Library Operating Instructions, <u>Using the CD-ROM</u>
- Using the Online Documentation (InfoExplorer Database)
 AIX Getting Started, Accessing Information with InfoExplorer (the whole chapter)

System Specific Documentation



Setting Up the System

86 A1 86PN

(Paper and CD-ROM)

How to find a suitable location, setup the system, connect peripherals, and start the system for the first time. It also gives an overview of the system characteristics.

Upgrading the System

86 A1 87PN

(Paper and CD-ROM)

How to upgrade the system hardware, adding memory, devices, CPU cards, and controllers.

Operator's Guide

86 A1 88PN

(Paper and CD-ROM)

How to operate system and devices properly.

Disks and Tapes Configuration Information 86 A1 88GX (Paper)

How to set disk and tape drive addresses and switches. It also includes information on CD-ROM drives setting.

Terminals and Printers Configuration 86 A1 22WE Guide

(Paper and CD-ROM)

How to configure terminals, printers and LAN terminal concentrators.

Terminal and Printer Connections 86 A1 86GX (Paper)

How to connect a terminal or a printer that is not supplied with the system.

Maintenance and Service Guide

86 A1 89PN

(Paper, on request only)

How to replace faulty parts in the system base unit and how to connect and route SCSI cables. It also explains how to use maintenance features for both the base unit and the disk expansion unit.

This guide is not delivered with the system, but it is available at your supplier if you need it.

AIX Diagnostic Information

86 A1 58HX

(Paper, on request only)

How to run online diagnostics.

This guide is not delivered with the system, but it is available at your supplier if you need it.

Cabling Guide

86 A1 87AQ

(Paper, on request only)

It contains all cabling information.

This guide is not delivered with the system, but it is available at your supplier if you need it.

The following manuals contain information relevant only to the disk expansion unit.

Disk Expansion Unit Quick Set Up

86 A1 12PX

(Paper, delivered with the disk expansion unit) How to set up the disk expansion unit.

Using the Disk Expansion Unit

86 A1 16PX

(Paper, delivered with the disk expansion unit)

How to operate and configure the disk expansion unit.

Disk Expansion Unit Service Guide

86 A1 13PX

(Paper, on request only)

How to replace faulty components in the disk expansion unit. It also gives information on cables and cable routing. This guide is not delivered with the disk expansion unit, but it is available at your supplier if you need it.

Note: If you need to order any of these documents, record the related number (e.g. 86 A1 89PN), and contact your Service Representative.

Maintenance Kit

A maintenance kit including a specific set of paper documentation is available at any authorized supplier. It is addressed to both service people and trained customers who are in charge of the system maintenance.

The maintenance kit includes the following hardware manuals, in English only:

- Upgrading the System
- Hardware Tasks: Where Do I Find the Information I Need?
- Terminals and Printers Configuration Guide
- Disks and Tapes Configuration Information
- Maintenance and Service Guide
- Disk Expansion Unit Service Guide
- AIX Diagnostic Information
- Cabling Guide.

Internet Site



Information about our services and products is available at our World Wide Web Internet address:

www.bull.com

In particular, information related to system architecture, components, performances, upgrading, is given for any models included in the open systems platforms.

Your visit to our Internet site is really welcome.

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Use the cut marks to get the labels.

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