

# ***Sound Box*** ***for CD-ROM Discman***

---

Operating Instructions

for CD-ROM **Discman**  
***SB-DM155***

© 1995 by Sony Corporation

# Owner’s Record

The model number and the serial number are located on the bottom of the CD-ROM drive. Record the serial number in the space provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. SB-DM155                      Serial No. \_\_\_\_\_

## WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

### CAUTION

As the laser beam used in this CD-ROM drive unit is harmful to the eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This shielded interface cable (audio cable) recommended in this manual must be used with this equipment in order to comply with the limits for a digital device pursuant to subpart B of Part 15 of FCC.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:  
(1) This device may not cause harmful interference, and  
(2) this device must accept any interference received, including interference that may cause undesired operation.

---

**For the customers in Canada**

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

---

**NOTICE TO USERS**

Program ©1995 Sony Corporation/Documentation ©1995 Sony Corporation

All rights reserved. This manual or the software described herein, in whole or in part, may not be reproduced, translated or reduced to any machine readable form without prior written approval from Sony Corporation.

IN NO EVENT SHALL SONY CORPORATION BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES, WHETHER BASED ON TORT, CONTRACT, OR OTHERWISE, ARISING OUT OF OR IN CONNECTION WITH THIS MANUAL, THE SOFTWARE OR OTHER INFORMATION CONTAINED HEREIN OR THE USE THEREOF.

Sony Corporation reserves the right to make any modification to this manual or the information contained herein at any time without notice.

The software described herein may also be governed by the terms of a separate user license agreement.

**Trademarks**

- Microsoft, MS-DOS and Windows are registered trademarks of Microsoft Corporation.
- IBM and PC/AT are registered trademarks of International Business Machines Corporation.
- 386SX is a trademark of Intel Corporation.
- Sound Blaster is a trademark of Creative Labs, Inc.
- Ad-Lib is a trademark of Ad Lib Inc.

All other trademarks and registered trademarks are trademarks or registered trademarks of their respective holders.

# Features

---

The Sony SB-DM155 adds sound and speaker capabilities to your CD-ROM Discman. It comes with the following features:

- connects the CD-ROM drive and your PC to play back CD-ROM or Audio CD's.
- Sound Blaster™ and Ad-Lib™ specifications compatible
- can be connected directly to a speaker, or to a speaker system via an amplifier.
- allows you to enjoy music by playing back MIDI data using a sound source from Windows™.
- accepts a joystick.
- can record and playback PCM sounds (e.g. WAV files as well).
- can playback AVI files when they are used together with Microsoft® Video for Windows.
- holds 6 AA batteries for extended playback time.

## System Requirements (not supplied)

---

- Sony PRD-150 CD-ROM Discman
- PC/AT® compatible computer with 386SX™ or higher processor
- 2MB or more RAM
- PCMCIA™ 2.1 Type II slot
- PCMCIA Card and Socket Services 2.1
- MS-DOS® or PC DOS 3.1 or higher
- Windows 3.1 (if Windows is used DOS 5.0 or higher)
- A 3.5 inch high density floppy disk drive (to install the supplied software)

# Table of Contents

---

Features .....	4
Precautions .....	6
<b>Preparation .....</b>	<b>7</b>
Unpacking .....	7
Identifying the Parts .....	7
<b>Connecting to Your PC .....</b>	<b>8</b>
Connecting to your CD-ROM Discman .....	8
Connecting to your PC .....	9
<b>Installing the Software .....</b>	<b>10</b>
Before Installing .....	10
Installing the Software .....	10
Configuring the Software .....	11
Using an External MIDI Instrument .....	12
Uninstalling the Software .....	12
<b>Using the Sound Box .....</b>	<b>13</b>
Connecting Audio Source Devices .....	13
Connecting Headphones, Speaker system, Amplifier or Recording Cassette Deck .....	14
Connecting a MIDI Instrument or Joystick .....	15
Using the Sound Box Speaker .....	15
Using the Sound Box as a Battery Case .....	16
<b>Additional Information .....</b>	<b>17</b>
Using a Joystick .....	17
Running Ad-Lib or Sound Blaster Software .....	19
Running DOS Utilities .....	19
Using the Windows Mixer Settings Utility .....	20
Maintenance .....	21
Troubleshooting .....	21
Specifications .....	23

# Precautions

---

## On this unit

---

- The Sound Box consists of delicate electronic parts. Do not drop or hit the box.
- The connector cable cannot be removed from the Sound Box. Do not pull it by force.
- When you want to use an electret condenser microphone with the Sound Box, you must use one which is battery powered.

## On installation

---

Keep the unit away from high humidity, high temperature, mechanical vibration and direct sunlight.

## On operation

---

- Do not move the unit while it is operating. Doing so may cause a malfunction.
- Avoid exposing the unit to sudden changes in temperature. This may cause condensation to collect inside the unit. If the ambient temperature should suddenly rise while the unit is turned on, wait at least one hour before turning off the unit. If you attempt to operate the unit immediately after a sudden increase in temperature, a malfunction may occur.

## On transportation

---

- Save the packing materials as you may need to repack and transport the unit at a later date.

## On the PCMCIA card

---

- Protect the card from static electricity. The components on the card can be destroyed by static electricity. Do not directly touch the I/O connector.
- Protect the card from mechanical shock.  
The card consists of electronic components that have precise dimensions. Do not drop or bump the card.
- To remove the card, always press the release button on the PC to eject the card, then remove it completely. (Do not insert/remove the interface cable from the card while the card is inside the PCMCIA slot.)
- Do not touch the card with wet hands.
- Do not expose the card to water.

## On safety

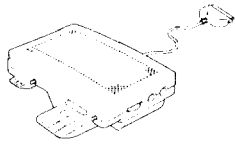
---

- Should any solid objects or liquid fall into the unit, unplug it and have it checked by qualified personnel before operating it any further.

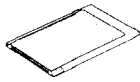
# Preparation

## Unpacking

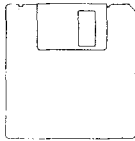
Make sure the following items are included in the package. If anything is missing, contact your local Sony dealer.



- Sound Box SB-DM155



- PCMCIA card IC-DM155



- 3.5 inch floppy disk
- Manual package

Preparation

## Identifying the Parts

LO BATT (low battery) indicator

I/O BUS connector

Speaker

LINE IN jack (stereo minijack)

PHONES (headphones/line out) jack (stereo minijack)

VOLUME control

Locking screws

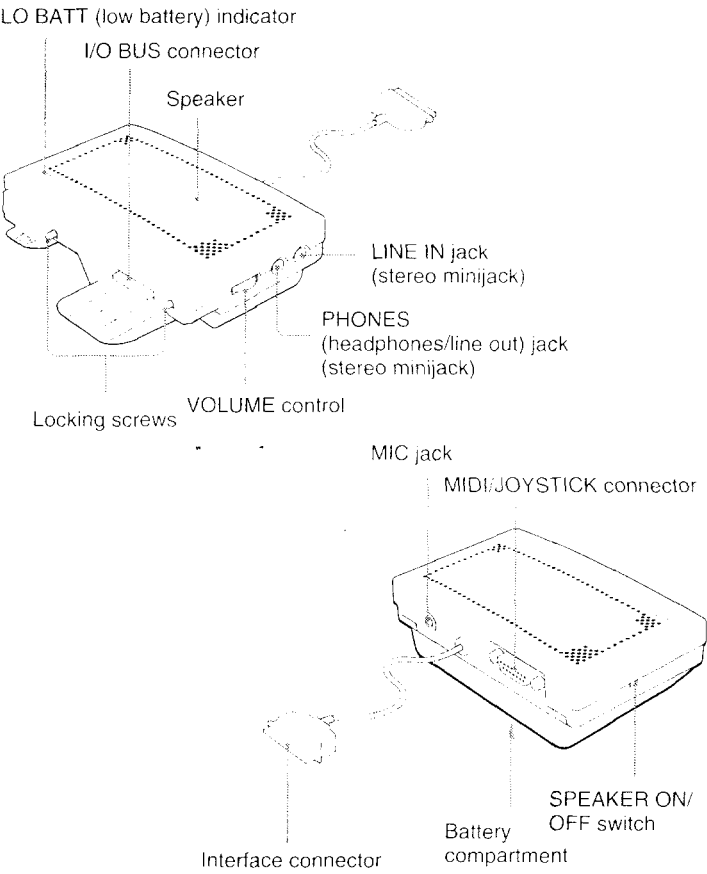
MIC jack

MIDI/JOYSTICK connector

Interface connector

Battery compartment

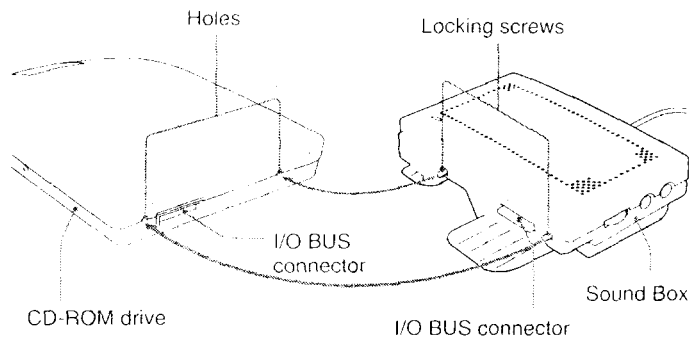
SPEAKER ON/OFF switch



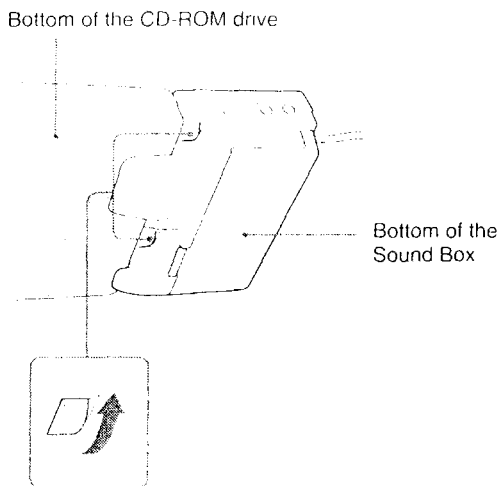
# Connecting to Your PC

## Connecting to your CD-ROM Discman

- 1** Turn off the CD-ROM Discman.
- 2** Remove the IC-DM150 PCMCIA card supplied with the PRD-150 (black label) from your PC, and unplug the IF-DM150 interface cable from I/O BUS connector.
- 3** Connect the Sound Box to the CD-ROM Discman.  
Insert the two locking screws on the Sound Box into the mating holes on the CD-ROM Discman.



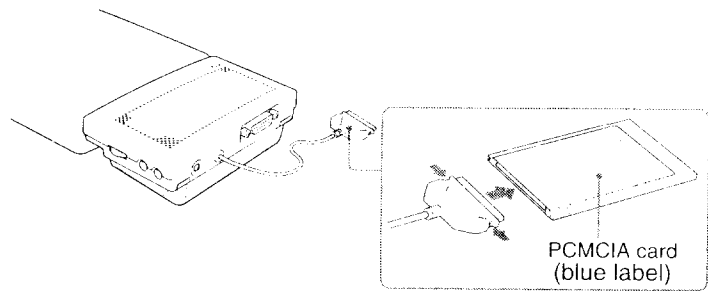
- 4** Secure the Sound Box.  
Tighten the two locking screws by turning the knobs in the direction indicated by the arrow mark.





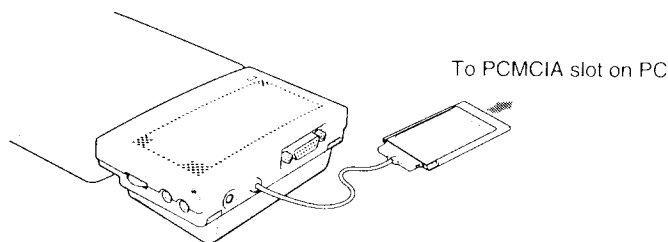
# Connecting to your PC

**1** Insert the IC-DM155 PCMCIA card supplied with the SB-DM155 to the interface cable.  
Make sure the shapes of the connectors of the interface cable and the PCMCIA card match. While pressing the two tabs shown, insert the interface cable connector into the PCMCIA card.



**Note**  
Do not attempt to connect the PC card supplied with the PRD-150. The connectors do not match, and cannot be connected.

**2** Insert the PCMCIA card into a PCMCIA type II slot on your PC.



**Note**  
While operating, do not remove the interface cable from the PCMCIA card.

Connecting to Your PC

# Installing the Software

---

Before operating the CD-ROM Discman with the Sound Box, you must install the software on the Installation Software Disk supplied with the Sound Box onto your PC. The installation can be done under Windows or DOS, as follows:

**Warning**

The software for the PRD-150 and the SB-DM155 are NOT compatible and CANNOT be interchanged. To use the SB-DM155 you MUST uninstall any PRD-150 software and replace it with SB-DM155 software, and vice versa. DO NOT install both at the same time.

## Before Installing

---

- Before installing the software for the SB-DM155, please uninstall the software for the PRD-150. Leaving the PRD-150 software installed may cause some malfunctions.
- Please read any accompanying paper insert(s) before installing.
- Please refer to the "INSTALL.TXT" file in the Installation Software on the supplied disk for more detailed instructions on the installation.

## Installing the Software

---

- 1** To remove the PRD-150 software from your PC, insert the PRD-150 "Disk1" into the floppy drive of your PC, and follow the instructions to Uninstall. Refer to the Operating Instructions that come with the PRD-150 for details.
- 2** To install the software for the SB-DM155, insert the PRD-155SB "Disk1" supplied with the SB-DM155 into the floppy disk drive (Drive A) of your PC.
- 3** (under Windows)  
From the File Menu of either the File Manager or the Program Manager, choose Run. In the Command Line box, type:  
*a:install*  
as appropriate, and press Enter or click the OK button.  
  
(under MS-DOS® or PC DOS)  
At the DOS prompt, type:  
*a:install*  
as appropriate, and press Enter.

---

## 4 Follow the instructions on the screen to complete the installation.

A help window appears when you click on the Help (?) button or press the <SHIFT> + <?> keys during installation.

If you choose "Manual" installation, please refer to step 3 under "Configuring the Software" section.

At the end of the installation, click on "Reboot" to restart your PC. If your PC does not restart, you may need to restart it manually.

### Notes

- To use your PRD-150 without the Sound Box, remember to first UNINSTALL this software, following the instructions on page 12.
- For detailed information about this product, refer to the "README.TXT" file on the Installation Software disk.

---

## Configuring the Software

To change any of the settings after installation, configure the settings from the Installation Software. The configuration can be done as follows:

**1** From the directory in which you installed the software (default "C:\SONYSB"), type "install" at the DOS prompt and then press Enter. Or start the program from the Windows File Manager or Program Manager.

**2** Select "Configure" from the install program.

**3** The Configuration proceeds as follows.  
**Make changes as appropriate.**

- 1 Set the Output Mixer and Recording Source in the Powerup Mixer Defaults screen.
- 2 Set the Interrupt and I/O ports in the Port Setup screen. Click on "Advanced" to set up Virtual Sound Blaster Port and Virtual MIDI Port.  
Please click on the Help (?) button or press the <SHIFT> + <?> keys for more details on Virtual Port Setups.  
At the end of the configuration, click on "Reboot" to implement the changes.

### Note

When either the MIDI port or the Ad-Lib™ port is set, the other port cannot be set. If you wish to play external MIDI instruments, set the Ad-Lib™ port to none and then set the MIDI port.