

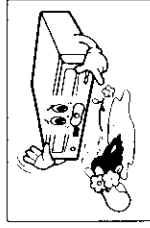
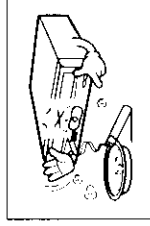
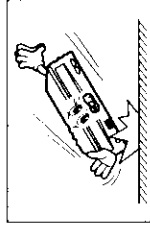
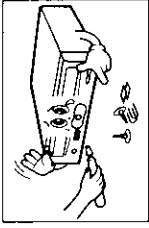
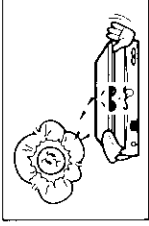
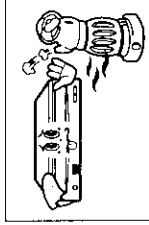
USER MANUAL

SAMSUNG

CD-ROM DRIVE
SCR-2430/2431/2432
3230/3231/3232

Safety Warnings

The following diagrams illustrate the precautions to be taken when using your CD-ROM drive.



User's Guide - ENGLISH

When handling the 32X drives, you may hear a slight rattle inside the unit.
This is **NOT** a problem, it is simply the ball bearings of the **Auto Balancer** shifting.

You must not use the drive in any manner other than that specified in this guide.

CAUTION

Do not attempt to repair the CD-ROM drive yourself. Contact your dealer or local SAMSUNG representative for all repairs.

Use of controls or adjustments or performance of procedures other than those specified here in may result in hazardous radiation exposure

To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

WARRANTY Please refer to the Samsung limited warranty statements.

<http://www.sec.samsung.co.kr>

BG68-10011A Rev.5

FCC Warning Statement

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. If not installed and used in accordance with the instructions, it can cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. Determine if the equipment does cause interference to radio or television reception, 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:

1. Where it can be done safely, reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

This device is covered by FCC rules for a Class B digital device. As required by FCC regulations, the following is provided for the information and guidance of the user.

The Canadian Department of Communications requires the following information be provided in this manual

Notice: This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulation of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe B prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

Equipment tested and found to be compliant with FCC Part 15, as a Class B digital device, will be accepted as being compliant with the Canadian DOC standard.

The Canadian Department of Communications label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective, operational, and safety requirements. The Department does not guarantee the equipment will operate to the user's satisfaction.

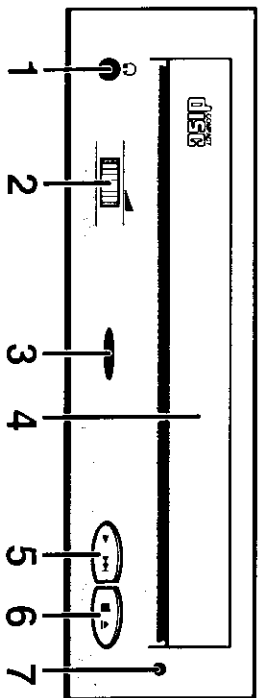
Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. This equipment must also be installed using an acceptable method of connection. In some cases the company's inside wiring associated with a single line individual service may be extended by means of a certified connector assembly (telephone extension cord). The customer should be aware that compliance with these conditions may not prevent degradation of service in some situations.

Repair to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier. Any repairs or alterations made by the user to this equipment, or any equipment malfunctions, may give the telecommunications company cause to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

Front View of the CD-ROM Drive



1 Headphone Connector

The audio output connector enables you to plug stereo headphones into the drive. It requires a 3.6 mm stereo mini-jack.

2 Volume Control Dial

This control dial adjusts the volume for your headphones. You can only use the headphone jack and volume control when you have installed the required software utilities. For example, the Microsoft Windows Media Player can be used.

3 LED

4 Disc Tray

The Disc Tray opens and closes automatically when you press the Open/Close button.

- When you place a disc in the tray, make sure that the label on the disc is facing upwards. If you are not loading or unloading a disc, the disc tray should remain closed.

5 Audio Play/Scan Button

When you play CD-DA/Audio-CD, press the play key and when in play, press track up.

6 Stop/OP/CL-Button

When in play, press the stop key and when in stop, press open/close key.

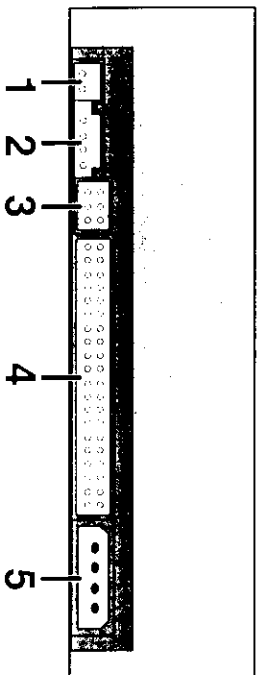
7 Emergency Hole

If the disc tray does not open when you press the Open/Close button, insert a small, metal rod (an unwound paper clip for example) into this hole to eject the disc.

- This function should only be performed when the computer is powered OFF.



Rear View of the CD-ROM Drive



1 Digital Audio

You can connect a sound card or MPEG card which support Digital Audio to your drive using this two-pin connector.

2 Audio Output Connector

You can connect a sound card to your drive using this four-pin connector.

- This function is not covered in detail in this guide. Refer to the documentation supplied with your sound card.

3 Device Configuration Jumper

Usually, this is a pre-set configuration as illustrated below.



- Verify that the setting is as illustrated. If it is not, simply remove the jumper and place it in the correct position.

4 Host IDE Interface connector

This input/output interface connector is used to connect the 40-pin flat cable from the IDE interface to the CD-ROM drive.

5 Power Connector

The power connector is a four-conductor male plug.



Installing the Software

You can install the device driver for DOS or for Windows

◆ Do not install DOS Driver when the program of Windows 95 is going on.
(Remark: CD-ROM Driver in the state of CONFIG.SYS.)

- 1 Turn on your computer and wait for it to boot.
- 2 Insert the driver disk into a floppy disk drive(usually the A drive).
- 3 If you are a...

DOS user	Then : ◆ Type a: at the DOS prompt ◆ Press the RETURN key ◆ Access the File Manager ◆ Click on the A icon.
Windows user	◆ When you are in Windows 95, it is not necessary to install Device Driver. ◆ Whereas, when you are in Dos Mode of Windows 95, then install as follows. ◆ Click on MY COMPUTER icon. ◆ Click on the A icon.
- 4 Run the CDSETUP program:

If you are a...	Then : ◆ Type CDSETUP after the a: prompt ◆ Press RETURN
DOS user	
Windows user	Double-click CDSETUP.EXE from the Windows File Manager
- 5 To...

Confirm the installation	Then enter...
Exit without installing	Y
Result :	N

If you answer Y(Yes), the installation program automatically

 - ◆ Creates a SAMSUNG directory on your hard disk
 - ◆ Copies the required softwares (mscdex.exe and sscdrom.sys)
 - ◆ Modifies the CONFIG.SYS and AUTOEXEC.BAT files
- 6 When the **Setup Completed** screen is displayed, remove the installation floppy disk from the drive.
- 7 Reboot your system.

Result :

 - ◆ The computer restarts
 - ◆ Both the device driver and MSCDEX are loaded

Changing the Drive and Driver Settings

Your CD-ROM drive is controlled by:

- ◆ MSCDEX.EXE(a Microsoft CD-ROM extensions program)
- ◆ SSCDROM.SYS(the CD-ROM device driver)

MSCDEX.EXE Parameters

The MSCDEX.EXE parameters are added to your AUTOEXEC.BAT file. Below is the syntax for each parameter. Information indicated within squarebrackets [] is optional.

Example: MSCDEX.EXE /E A: /S C:\WINDOWS\SYSTEM\CDROM\SSCDROM.SYS /D:SSCD000
C:\SAMSUNG\MSCDEX.EXE /D:SSCD000

Details for each parameter are listed below.

Parameter	Details
/D:<drive name>	Specifies the name of the top CD-ROM drive. The <drive name> field must contain the same information as specified by parameter in your CONFIG.SYS file(which loads the corresponding CD-ROM drive) ◆ The MSCDEX command must have at least one /D parameter. If you add another CD-ROM device, you must add and specify a corresponding /D parameter for each new drive.
/E	If the EMS memory model(Expanded Memory Support) is enabled, this parameter specifies that the CD-ROM driver can save sector buffers using EMS memory.
/K	Specifies that MS-DOS can recognize a CD-ROM volume written in kanji(Chinese characters). Must be used for all CD-ROM volumes written in kanji.
/S	Permits the CD-ROM drive to be shared on the MS-NET or Windows for Work Groups server.
/V:	When MSCDEX.EXE is loaded, this parameter indicates the memory status.
/L:<drive letter>	Specifies the letter of the top CD-ROM drive. If more than one CD-ROM drive is connected, the system automatically assigns arbitrary drive names to the additional drives.
/M<buffers>	Specifies the number of sector buffers.

SSCDROM.SYS Parameter

The SSCDROM.SYS parameters are added to your CONFIG.SYS file. Below is the syntax for each parameter. Information indicated within square brackets [] is optional

Example: The default set-up procedure adds the following default settings to your CONFIG.SYS file:
 DeviceName=SSCDROM.SYS /D:SSCD000 /L:Z: /M:10

Details for each parameter are listed below.

Parameter	Details
/P:<X>	Specifies the port for the interface card. Possible values: 1FOH, 170H Default: 1FOH
/D:<drive name>	Changes the name for the CD-ROM drive. Up to eight characters can be input. Default: SSCD000

Resolving Technical Problems

Please consult the following table BEFORE contacting your dealer or local SAMSUNG representative.

Problem	Meaning / Solution
The software installation failed	- Check that your hard disk is not full - The installation floppy disk may be corrupted. Repeat the installation with the backup floppy disk.
I re-booted my PC and it paused during the start-up program.	After installing the device driver, your system start-up program may take more time than expected. If it does not start-up after 60 seconds, verify your AUTOEXEC. BAT file and, if necessary, contact your local computer dealer.
The disc tray does not open.	The drive may not be installed correctly. Verify the physical installation.
In the File Manager, the CD-ROM icon does not display.	If you have installed the CD-ROM drive ... Then ... And the software ... Re-boot your PC. And have not installed the software ... Install the software following the instructions on page 5

I installed the software and re-booted my PC. The CD-ROM drive icon/directory still does not appear.

- When the program of Windows 95 is broken up, re-install it as the computer can not read the program anymore.
- Verify the connections between the drive and your PC. Check that the 40-pin flat cable is connected to an IDE interface (some PCs are equipped with an SCSI disk interface)
- Verify your AUTOEXEC. BAT file. Go to page 6 for the verification procedure.
- Check the LASTDRIVE = command in the CONFIG. SYS file. The specified letter must take the CD-ROM volume into account. If you do not know which letter is assigned to the CD-ROM, enter Z.
- Using the documentation provided with your PC, check that the IDE hard disk is set up in MASTER mode.



Technical Specifications

SAMSUNG continually strives to improve its products. Both the design specifications and these user instructions are thus subject to change without notice.

SECTIONS		SCR-2430	SCR-2431	SCR-2432
DISC	Disc types supported	CD-DA, CD-ROM Mode-1, CD-ROM XA Mode-2 Form-1, Form-2, CD-Plus, CD-Extra, Photo-CD(Single, Multi-session), Video CD ready, Enhanced CD, CD-iRMV, CD-iRW		
	Disc diameter	12cm or 8cm		
	Rotational speed	5000rpm (Linear Velocity 1.3m/s)		
DRIVE PER - FORMANCE	Data transfer rate	Max. 3600KB/s PIO Mode - 4, DMA MW2(option)		
	Access time (1/3 stroke)	90ms(typical)		
	Data buffer capacity	512KB		
	Laser	Semiconductor Laser		
	Slide mechanism	Gear motor		
	Spindle motor	Brushless motor		
ERROR RATE	Loading mechanism	Tray, DC motor(Soft Eject)		
		Mode-1 : 1 block / 10 ⁶ bits, Mode-2 : 1 block/10 ⁶ bits		
	Eject button	Auto eject or Auto inject		
FRONT PANEL	Indicator(LED)	Busy		
	Headphone output	Stereo Mini-jack (Ø 3.6 mm) 0.60 ± 0.12 V (rms) 33Ω		
	Volume control	Dial type		
REAR PANEL	Required power	+5V DC 1.0A, +12V DC 1.5A (Max)		
	Interface connector	ATAPI		
	Audio output	Line out 0.70 ± 0.14V(rms), 47kΩ		
OPERATING ENVIRONMENT	Jumper block	Device configuration jumper		
	Work area	Temperature : 5-40 °C, Humidity : 20-90%		
	Storage area	Temperature : -25--55 °C, Humidity : 5-95%		
GENERAL	Dimensions	149(W) x 41.5(H) x 202.6(D)mm (including bezel)		
	Net weight	950g		
RELIABILITY	MTBF	100,000 POH(Duty 25%)		
	Disc compartment loading	30,000 times		



Technical Specifications

SECTIONS		
DISC	Disc types supported	CD-DA, CD-ROM Mode-1, CD-ROM XA Mode-2 Form-1, Form-2, CD-Plus, CD-Extra, Photo-CD(Single, Multi-session), Video CD ready, Enhanced CD, CD-iFMV, CD-RW
	Disc diameter	12cm or 8cm
	Rotational speed	6700rpm (Linear Velocity 1.3m/s)
DRIVE PER -	Data transfer rate	Max. 4800KB/s
		PIO Mode - 4, DMA MW2(option)
	Access time (1/3 stroke)	80ms(typical)
	Data buffer capacity	512KB
	Laser	Semiconductor Laser
	Slide mechanism	Gear motor
	Spindle motor	Brushless motor
FORMANCE	Loading mechanism	Tray, DC motor(Soft Eject)
	ERROR RATE	
	Eject button	
FRONT PANEL	Indicator(LED)	Busy
	Headphone output	Stereo Mini - jack (Ø 3.6 mm) 0.60 ± 0.12 V (rms) 33Ω
	Volume control	Dial type
REAR PANEL	Required power	+5V DC 1.0A, +12V DC 1.5A (Max)
	Interface connector	ATAPI
	Audio output	Line out 0.70 ± 0.14V(rms), 47kΩ
	Jumper block	Device configuration jumper
	Work area	Temperature : 5-45 °C, Humidity : 8-80%
ENVIRONMENT	Storage area	Temperature : -40-60 °C, Humidity : 5-90%
	Dimensions	149(W) x 41.5(H) x 202.6(D)mm (including bezel)
GENERAL	Net weight	950g
	MTBF	100,000 POH(Duty 25%)
RELIABILITY	Disc compartment loading	30,000 times