



Operating Instructions



Before listening to music with the SD Audio Player (Technics Electronic keyboard).

Be sure to follow the instructions in these Operating Instructions to transfer music to an SD Memory Card.

For information on the basic operations in Windows and how to use your computer and peripheral devices, see the Operating Instructions included with your system.

■ To ensure proper use, carefully read these Operating Instructions and the Operating Instructions included with your Technics Electronic keyboard (SX-KN7000).

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Important SD-Jukebox usage information

- In compliance with the stipulations of SDMI (Secure Digital Music Initiative), SD-Jukebox incorporates copyright protection technology using encryption technology in order to protect copyrights, to ensure the healthy development of music culture, and to protect the rights of valid purchasers.

- SD-Jukebox records music data in encrypted form onto your hard disk drive. Encrypted music cannot be moved/copied to other folders, drives, and other computers for use.
- Unique information pertaining to your PC's processor and hard disk drive is used in the encryption process. Therefore, if either the processor or hard disk drive is replaced, previously created music data will no longer be available for use.

- **SD-Jukebox cannot play and record music CDs that does not have a  mark on the disc label.**

- Depending on your computer system, you may experience problems such as being unable to record or use recorded music data. Please note that Matsushita is in no way liable for any music data you lose, or for any other direct or indirect damages.

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System Requirements

In order to use SD-JukeboxV2.4, you need an IBM PC/AT or compatible computer satisfying the system requirements shown below.
(SD-Jukebox does not run on Macintosh systems.)

OS (English/German/French/Spanish/Italian version)

**: Microsoft® Windows® 98/98 SE, Windows® 2000(Professional SP2),
Windows® Me, Windows® XP(Home Edition/Professional)**

SD-Jukebox does not run on Microsoft Windows 3.1/ Windows 95, or Windows NT. SD-Jukebox may not run properly if your computer has been upgraded from Windows 3.1/ 95 to Windows 98/98SE, Windows 2000, Windows Me, or Windows XP. SD-Jukebox may not run properly on computers with dual CPUs or multi-boot systems.

If you are upgrading from Windows 98/ 98SE or Windows Me to Windows XP, select "Upgrade installation (recommended)". If you select "New installation", music data created with SD-JukeboxV2.x prior to upgrading to Windows XP will no longer be available for use.

Hardware requirements

- CPU: Pentium® 233 MHz MMX or faster (Pentium® II 333 MHz or faster recommended)
For Windows XP: Pentium® II 333 MHz or faster (Pentium® III 500 MHz or faster recommended)
- RAM: 64MB or more (for Windows XP: 128MB or more)
- Hard disk drive: At least 30MB free disk space (more space may be required for music data and depending on your version of Windows)
- Display: 800×600 or better resolution
Set to High Color (16-bit) or higher
- Sound device: Creative Labs Sound Blaster 16 or compatible device
- CD-ROM drive (required for installation and for CD recording):
A CD-ROM drive capable of digital recording is required. Four-speed or higher is recommended. (Recording may not work properly with CD-ROM drives connected through an IEEE1394 or USB connection.)
- USB port (required for connecting SD Memory Card)
(SD-Jukebox may not run properly if the SD Memory Card is connected through a USB hub or USB extension cable.)
- If you are using the CDDB function, then an Internet connection is also required.

*1 SD-Jukebox may not run properly on all PCs meeting the recommended system specifications.

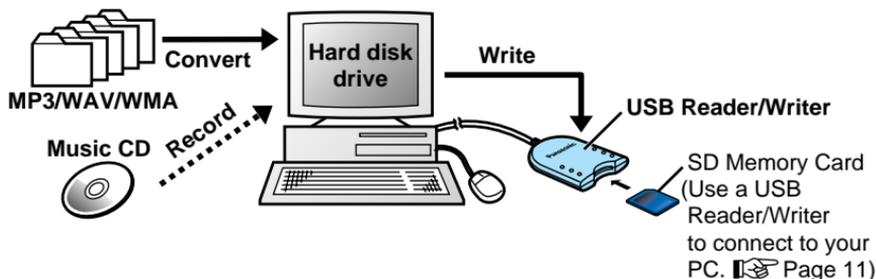
*2 SD-Jukebox may not run properly on user-built PCs.

Before you start

SD-Jukebox Features

SD-JukeboxV2.4 is a software program that lets you write recorded tracks to an SD Memory Card. SD-JukeboxV2.4 also lets you record music data from music CDs to your computer's hard disk drive.

You can play an SD Memory Card by inserting it in the SD Audio Player (Technics Electronic keyboard). Tracks recorded to an SD Memory Card from a music CD using the SD Audio Player (Technics Electronic keyboard) can also be transferred to your PC.



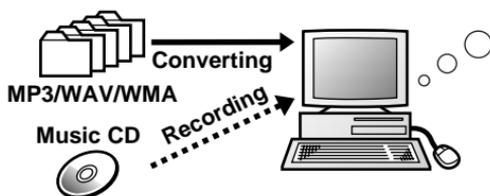
Other features:

- Edit titles, track order, and other information on your PC, and play tracks on your PC.
- Convert MP3, WAV, and WMA files on your PC's hard disk drive and write them onto an SD Memory Card.
- In cases where music information is registered at the CDDB site, information such as album titles can be downloaded just by playing a music CD.

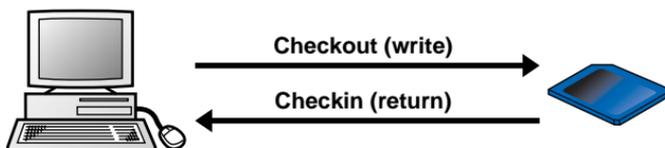
The copyright protection technology used by SD-Jukebox conforms to the specifications of SDMI (Secure Digital Music Initiative).

Before you start

Recorded tracks are stored in compressed form on your PC



Transferring data between a PC and SD Memory Card



Check out refers to the process of writing tracks recorded on a PC (compressed music data) to an SD Memory Card. Check in refers to the process of moving tracks back to the PC from an SD Memory Card.

Check out and check in cannot be done an unlimited number of times. Limits such as the following apply in order to protect copyrights.

Check out limit: 3 times

- A track recorded to a PC can be checked out to an SD Memory Card a maximum of three times. Therefore, on the <Check out to SD>, only the tracks that have at least one remaining check out are displayed from the list of all recorded tracks (the PC's default playlist). Tracks that have been checked out three times are not displayed.
- When you delete a track from the SD Memory Card's default playlist, the track is checked in to the PC. When you check in a track, you increase the check out count for that track on the PC. You cannot check in music data that has been deleted from the PC's default playlist.

Before you start

Playlists

There are two different types of playlists, as described below.

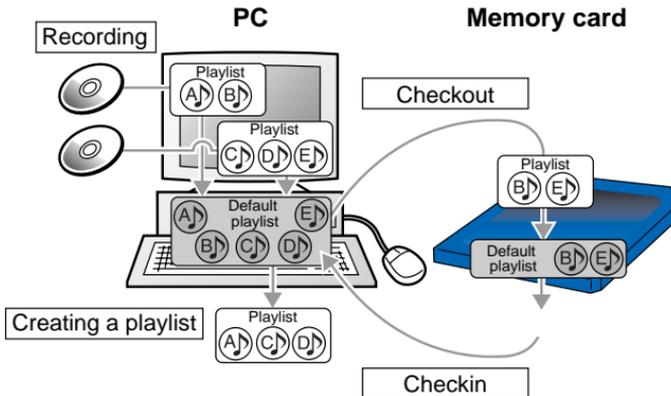
Default playlist (list of all tracks)

The default playlist is a list of all music data recorded to the PC (or checked out to an SD Memory Card). When you delete a track from the default playlist, the music data itself is deleted. (When you delete a track from the default playlist on an SD Memory Card, the track is checked in to the PC.)

Playlists

When you record music data, a playlist is automatically created on the PC (or on the SD Memory Card when you check out a track).

After recording or check out, you can select desired tracks from the default playlist or an existing playlist to create an album (playlist).



NOTE

There are limits on the number of playlists and tracks that can be written to an SD Memory Card.

- Maximum playlists: 99
- Maximum tracks per playlist: 99
- Maximum tracks per card: 999

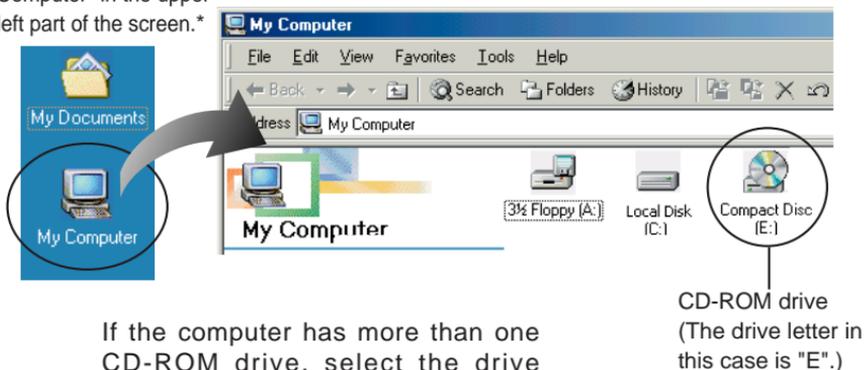
Installation

Install the software following the procedures shown below before using SD-Jukebox.

Checking the drive letter

You may need to specify a drive letter during the installation process. Turn on your PC and start Windows, then check the drive letter before installation as described below.

Double-click "My Computer" in the upper left part of the screen.*



If the computer has more than one CD-ROM drive, select the drive containing the installation CD-ROM.

CD-ROM drive
(The drive letter in this case is "E".)

* <Windows XP>

From the Windows Start menu, click "My computer".

Continued on next page ►

Installation

Installation procedure

1 Turn on the PC and start Windows.

2 Insert the installation CD-ROM in the CD-ROM drive.

When you insert the CD-ROM, the installer starts automatically and the <Welcome Screen> appears.

If the installer does not start, enter the setup file path to start installation. ( page 10)



Next, follow the on-screen instructions.

3 Click "Finish" on the <Installation Finished Screen>.

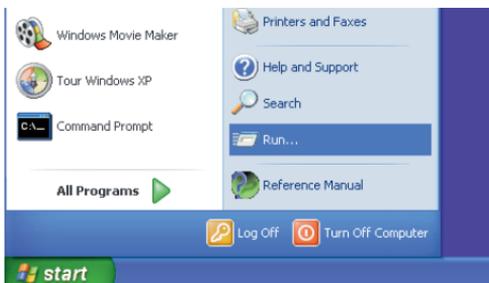
If you select "Yes, restart the computer immediately", the PC will automatically restart and installation will be completed.

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Installation

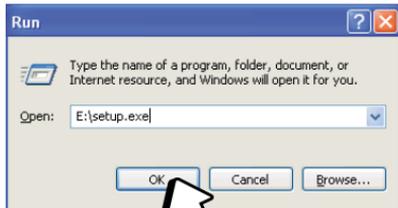
If the installer does not start automatically

- 1 From the Windows Start menu, click "Run".



- 2 Enter [`*: \setup.exe`] and click OK.

- The install program starts. Now follow the on-screen instructions.
- Enter the CD-ROM drive letter in place of * above (Drive letter checking procedure  page 8).
- The file path may be entered in either upper case or lower case.



NOTE

Be sure to use your computer's administrator account to install SD-Jukebox on a Windows XP system.

Connecting an SD Memory Card

To check out tracks to an SD Memory Card, you must connect a USB Reader/Writer (included) to your PC.

NOTE

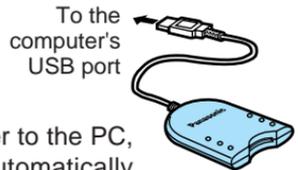
- SD-Jukebox may not run properly in the following cases:
 - When two or more USB Reader/Writers or another USB device are connected to a single PC.
 - When the USB Reader/Writer is connected to another SD Memory Card special adapter.
 - If you are using a USB hub or USB extension cable.
- Always use an AC adapter when running SD-Jukebox on a notebook computer. (If the power is cut off while SD-Jukebox is running, data may be lost or the software may stop working properly.)

1 Turn on the PC and start Windows.

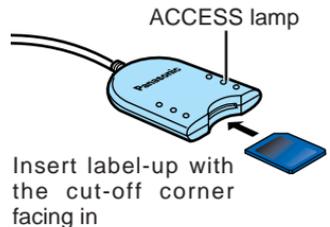
2 Insert the USB Reader/Writer connector into the USB port on the PC.

The first time you connect the USB Reader/Writer to the PC, the "Add new hardware" wizard starts. This automatically changes the computer settings so that it can use the USB Reader/Writer.

Use Windows Explorer or another file manager to make sure the USB Reader/Writer drive is displayed as a removable drive. (If it is not displayed  page 42)



3 Make sure the SD Memory Card is facing the correct way, then insert it in the slot in the USB Reader/Writer



CAUTION

- If you insert the SD Memory Card backwards, you may damage the USB Reader/Writer slot or damage the card.
- Make sure the USB Reader/Writer ACCESS lamp is off before you remove the SD Memory Card.

Connecting an SD Memory Card

USB Reader/Writer

- Do not allow the USB Reader/Writer to get wet, and do not drop it or subject it to strong impact.
- Do not place the USB Reader/Writer in a location where it gets hot. Also do not place it in a location exposed to direct sunlight.
- Do not disassemble or modify the USB Reader/Writer.
- To ensure proper use, carefully read the Operating Instructions included with your USB Reader/Writer.

Using the USB Reader/Writer with Windows Me systems

A green question mark may appear next to the [USB large-capacity storage devices] icon, located under [Universal serial bus controllers] in Device Manager. However, the USB Reader/Writer will operate properly.

Connecting an SD Memory Card

Protecting data on an SD Memory Card

If the SD Memory Card is damaged internally or if its data is corrupted, you may be unable to use the card. Therefore, do not do any of the following before SD-Jukebox fully starts and while the USB Reader/Writer ACCESS lamp is on:

- Attach or remove the SD Memory Card or USB Reader/Writer
- Intentionally close SD-Jukebox or Windows
- Intentionally turn off the PC (e.g., pull the power cord out of the power outlet)

After check out, we recommend moving the write-protect switch on the SD Memory Card to the LOCK position. Unlock the switch when you want to do a new check out or check in tracks.



Starting SD-Jukebox

- Double-click the  icon on the desktop.

SD-Jukebox
V2

<Title Screen>



The <Main Screen> appears after the <Title Screen>.

NOTE

- If the icon does not appear on the desktop, then from the Start menu, select [Programs] → [Cnc] → [SD-JukeboxV2] → [SD-JukeboxV2.4].

- SD-Jukebox version information

To check which version you have, start SD-Jukebox and right-click the SD-Jukebox icon on the task tray. Next, select "About SD-Jukebox".



SD-Jukebox icon

CAUTION

While SD-Jukebox is running, we recommend disabling any power-saving functions on your equipment (e.g., the PC).

Exiting SD-Jukebox

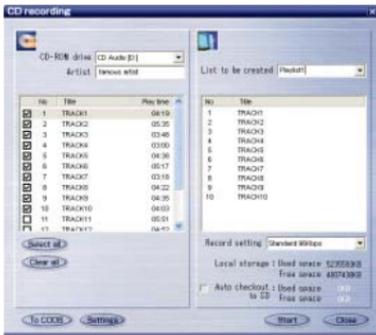
- Click [Close].



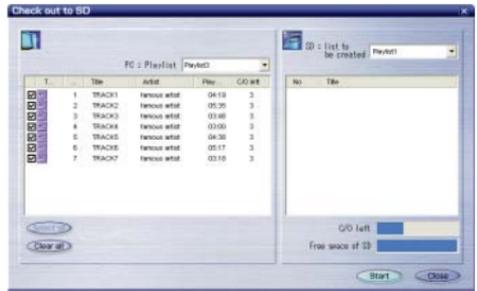
You can also exit SD-Jukebox by clicking the "X" button on the screen.

Main screens

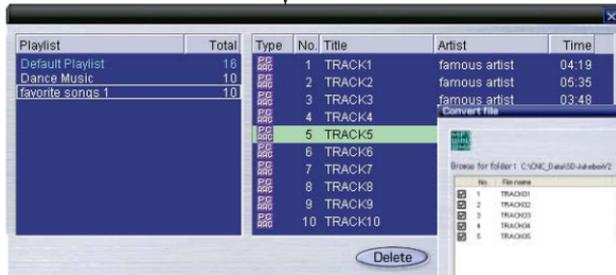
<CD Recording Screen> ( page 19)



<Check out to SD Screen>
( page 22)



<Main Screen>



<Playlist Screen>
( page 24)



<Convert File Screen>
( page 16)

Converting music data

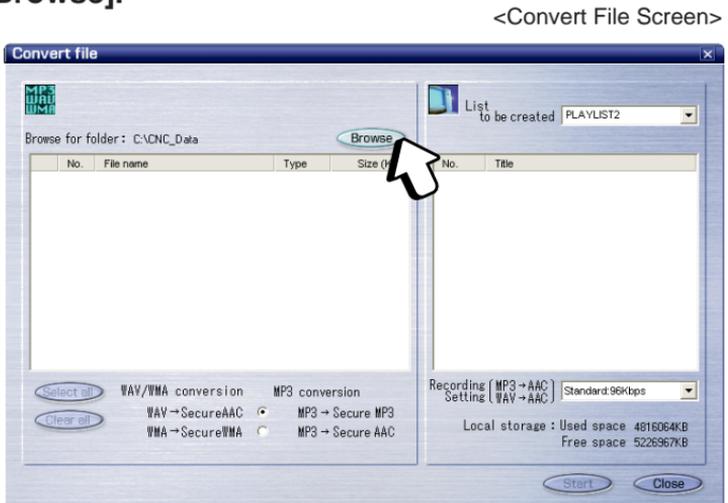
MP3, WMA, and WAV music data files stored on the hard disk drive are converted to a format that can be written to SD.

1 Click [Convert].



The <Convert File Screen> appears.

2 Click [Browse].



The <Browse Folders Screen> appears.

Continued on next page ►

Converting music data

3 Select the folder containing the MP3, WAV, or WMA files and click [OK].

File names are displayed on the <Convert File Screen>.

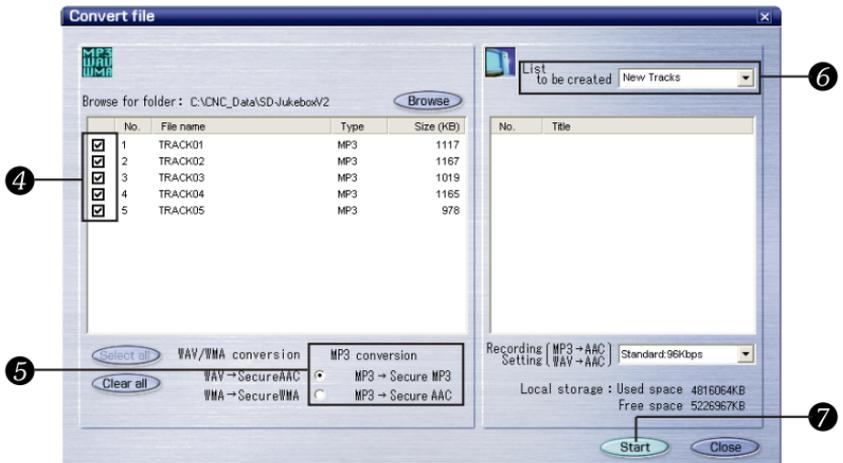
<Browse for Computer Screen>



4 Select the checkbox next to the track you want to convert.

- appears next to the selected tracks.
- Click [Select All] to convert all of the tracks.
- To redo the selection, click [Clear All] and then make your selections again.

<Convert File Screen>



Continued on next page ►

Converting music data

5 Select the conversion method.

WAV files are automatically converted to AAC.

For MP3 files, normally you should select [MP3 → Secure MP3].

Select [MP3 → Secure AAC] if necessary for the SD Audio Player (Technics Electronic keyboard) you are using. ( page 47)

Compression format, sampling frequency, and bit rate are not converted for WMA files.

NOTE

Copyright-protected WMA files cannot be converted.

6 Enter a name in [List to be created].

Input the name directly.

7 Click "Start".

- The <Converting File Screen> is displayed and conversion starts.
- The current track number and the remaining conversion time are displayed.
- Click [Cancel] to cancel a conversion in progress. (If you cancel partway through a track, the track is not converted.)
- When all the tracks have been converted, the <File Conversion Complete Screen> is displayed. Click [OK].



Recording CDs to your PC

Once recorded, CDs can be automatically checked out to an SD Memory Card.

1 Insert a CD in your PC's CD-ROM drive.

If the CD starts playing automatically as soon as you insert it in the CD-ROM drive (CD EXTRA or an application with an auto-play function), close the auto-playing program. You will not be able to use SD-Jukebox until the auto-playing program is closed.

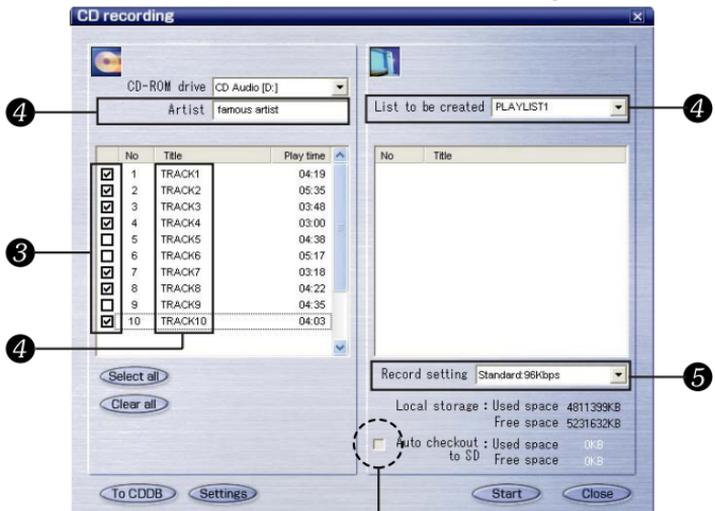
2 Click [CD], then [Record].

<Main Screen>



The <CD Recording Screen> appears.

<CD Recording Screen>



To record music to your PC and simultaneously check out the music to an SD Memory Card, click "Auto check out to SD".

Continued on next page ►

Recording CDs to your PC

3 Select the checkbox next to the track to be recorded.

-  appears next to the selected track.
- To record all tracks, click [Select All].
- To redo the selection, click [Clear All] and then make your selections again.

4 Enter names for [List to be created], [Artist], and [Title].

- Enter the names directly in these fields. When the title on the list is selected, it is overwritten to the title field.
- We recommend changing the name in [List to be created] so that you will be able to recognize the playlist contents later on the PC.
- If you do not set custom names, then titles will be assigned sequentially (based on creation sequence and track sequence). Artist names are not set automatically.
- A maximum of 30 characters can be entered.

5 Set the recording quality.

Select the recording quality from the "Record setting" pulldown menu. The higher the number, the better the quality. However, better quality requires more memory.

High quality 128 kbps (approximately 64 minutes), standard 96 kbps (approximately 86 minutes), extended 64 kbps (approximately 129 minutes)
The numbers in parentheses represent the recordable time on a 64MB SD Memory Card.

NOTE

- In cases where music information is registered at the CDDB site, CD data will be automatically referenced, and the album title (displayed in [List to be created]), together with the artist name and title information will be downloaded from the site. ( page 45)
(In order to use CDDB function, you must set up an Internet connection for your computer and establish separate contracts with individual service providers.)
- When you record a CD compatible with the CD TEXT standard, the album title, artist name, and title information recorded on the CD are acquired automatically. However, your PC's CD drive must also support CD TEXT in order for this to work.

Continued on next page 

Recording CDs to your PC

<CD Recording Screen>



After you enter or revise CD track information, you can send the information to CDDb to register it on their server.

6 Click "Start".

- The <Recording Screen> is displayed and recording starts.
- The current track number and the remaining recording time are displayed.
- Click [Cancel] to cancel a recording in progress. (If you cancel partway through a track, the track is not recorded.)
- When all the tracks have been recorded, the <Recording complete Screen> is displayed. Click [OK].



CAUTION

During recording, do not remove the CD or remove or insert an SD Memory Card.

NOTE

Recordings from CD-R and CD-RW discs may not work properly.

Checking out tracks to an SD Memory Card

Select the desired track from the PC's track list and use SD-Jukebox to check out the track to an SD Memory Card.

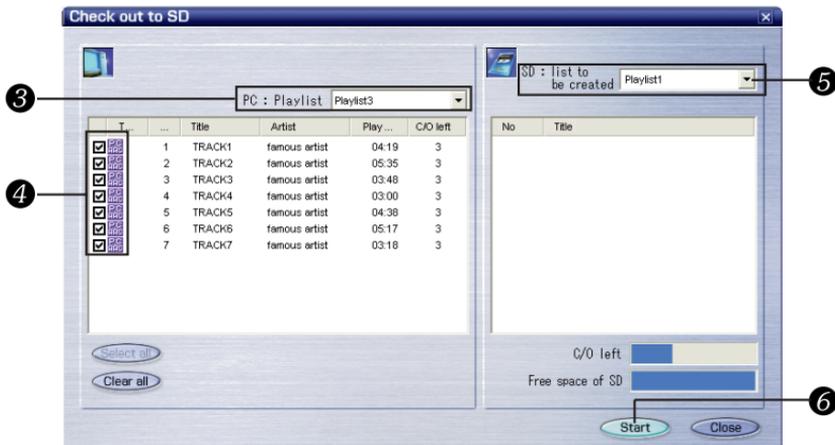
- 1 Connect an SD Memory Card. (▶▶ page 11)
- 2 Click [PC], then [Check out].

<Main Screen>



The <Check out to SD Screen> is displayed.

<Check out to SD Screen>



- 3 Select the playlist name containing the track you want to check out.

Continued on next page ▶▶

Checking out tracks to an SD Memory Card

4 Select the checkbox next to the track being checked out.

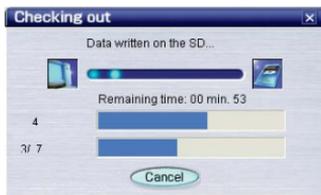
-  appears next to the selected track..
- To check out all tracks, click [Select All].
- To redo the selection, click [Clear All] and then make your selections again.

5 Enter a name in [List to be created].

We recommend changing the name in [List to be created] so that you will be able to recognize the playlist contents later.

6 Click "Start".

- The <Checking Out Screen> is displayed, and the check out process starts.
- The current track number and the remaining check out time are displayed.
- Click [Cancel] to cancel check out. (If you cancel partway through a track, the track is not checked out.)
- When all the tracks have been checked out, the <Data writing on the SD has been completed Screen> is displayed. Click [OK].



CAUTION

Do not remove or insert an SD Memory Card while the <Check out to SD Screen> is displayed.

Checking in tracks from an SD Memory Card to the PC

When you check in a track from the default playlist of an SD Memory Card, the track is returned to the PC and its check out count is increased.

NOTE

- Use the same PC as you used for checking out the track.
- If the track has been deleted from the PC's default playlist, you will not be able to check it in. In this case, the music data itself will be deleted.
- When a track is deleted from the SD Memory Card's playlist, it is simply deleted from the playlist; it is not checked in.
- If you check in a track which is on multiple playlists, it will be deleted from all of the playlists on the SD Memory Card.

- 1 Click [SD], then [List].
- 2 Select [Default playlist] from the list.
- 3 Click a track, then click [Check in].



- 4 On the <Check in Confirmation Screen>, click [Yes].
The selected track is checked in to the PC.

Editing

Editing a playlist on the SD Memory Card

Deleting playlists and tracks (the default playlist cannot be deleted)

- 1 Click [SD], then [List].
- 2 Click the playlist to be deleted.
 - To delete tracks, also click the tracks to be deleted.
 - Multiple tracks can be selected.
- 3 Click [Delete].



Changing the track order (the contents of the default playlist do not change)

- 1 Click [SD], then [List].
- 2 Select the playlist to be edited.
- 3 Drag and drop tracks to change the track order.



NOTE

- To change a title on the SD Memory Card, first check in the track and change its name on the PC's default playlist (or playlist), then check the track back out.
- If a track has been deleted from the PC's default playlist, its title cannot be changed.
- After a title has been changed, it can be checked out without checking in to the PC, but the remaining check out count on the PC will be reduced.

Editing

Editing a playlist on the PC

- 1 Click [PC], then [List].
- 2 Select the playlist to be edited.

Subsequently, follow the appropriate editing procedure.

Changing the name of a playlist (the default playlist cannot be changed)

1. Right-click "Playlist Name".
2. Click "Rename the playlist".

The <Playlist Edit Screen> is displayed.

3. Enter a name and click [OK].



Deleting a playlist (the default playlist cannot be deleted)

1. Right-click "Playlist Name".
2. Click "Delete the playlist".

Playlists can also be deleted using [Delete] on the <Playlist Screen>.



Continued on next page ►

Editing

Changing title and artist names

1. Right-click the track to be changed.

1



Playlist	Total	Type	No.	Title	Artist	Time
Default Playlist	10		1	TRACK1	famous artist	04:19
Dance Music	10		2	TRACK2	famous artist	05:25
Favorite songs 1	10		3	TRACK3	famous artist	03:48
			4	TRACK4	famous artist	03:00
			5	TRACK5	famous artist	04:38
			6	TRACK6	famous artist	05:17
			7	TRACK7	famous artist	03:18
			8	TRACK8	famous artist	04:22
			9	TRACK9	famous artist	04:35
			10	TRACK10	famous artist	04:03

2. Click "Edit track Information".

The <Advanced Settings Screen> is displayed.



Advanced settings

Title : TRACK5

Artist : famous artist

Created time : Mar15 00:00:08 17 PM

Type : MP3-2 AAC

Location : C:\NVC_data\ED-Jukebox\V2

Mode : Stereo

Sampling frequency : 44.1 kHz

Bit rate : 96kbits

C/D left : 3Times

Company :

Label :

Copyright :

Buttons: Edit, OK, Cancel

3. Enter a name and click [OK].

Deleting a track

1. Right-click the track to be deleted.

2. Click "Delete the track".

Tracks can also be deleted using [Delete] on the <Playlist Screen>.

NOTE

When a track is deleted from the default playlist, its music data is deleted and the track can no longer be checked in.

Changing the track order (the track order on the default playlist cannot be changed)

• Drag and drop the track you want to move.

Listening to music on the PC

You can use this software to listen to CD tracks, tracks stored on the PC, and tracks on an SD Memory Card.

- 1 Click [CD], [PC], or [SD], then click [List].



- 2 Select the playlist you want to play.

To listen to all tracks, click [Default Playlist].



- 3 Click .

- Playing starts at the first track. When all the tracks on the playlist (or CD) have been played, playing stops automatically.
- You can start the play session at a particular track by double-clicking the track.

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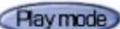
Listening to music on the PC

CAUTION

While a CD or SD Memory Card is being played, do not remove the CD or SD Memory Card and do not open the CD-ROM drive tray.

NOTE

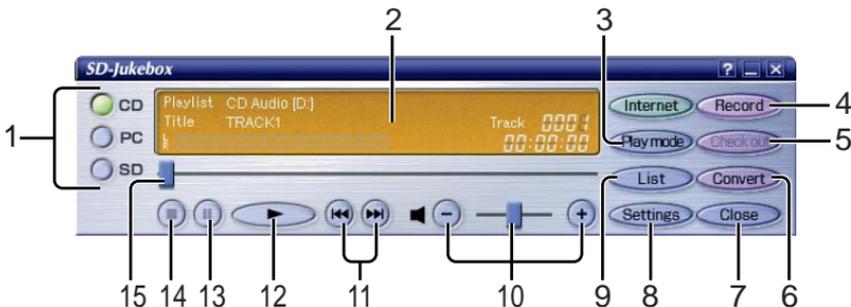
You can also use your PC to listen to tracks on an SD Memory Card, if the tracks are in AAC or MP3 format. You cannot use your PC to listen to tracks stored in WMA format on an SD Memory Card.

Function	Button(s) to click
Pause	Click  while playing (or  to start playing)
Stop	Click  while playing (after playing stops, the first track is queued)
Queue song	 : Queue previous song  : Queue next song
Fast forward	Drag the slider to the right
Rewind	Drag the slider to the left
Volume adjustment	 : Decrease volume  : Increase volume (Volume can also be adjusted using the volume adjustment slider)
Change play modes	 Play Mode (each time this button is clicked, the display changes as shown below) No display (listen to tracks in order starting with the first song) ↓ One-track repeat ↓ All-track repeat ↓ Random _____ RandomPlaying may stop when you switch modes while playing. If that happens, click  .

Names and functions of the screen elements

<Main Screen>

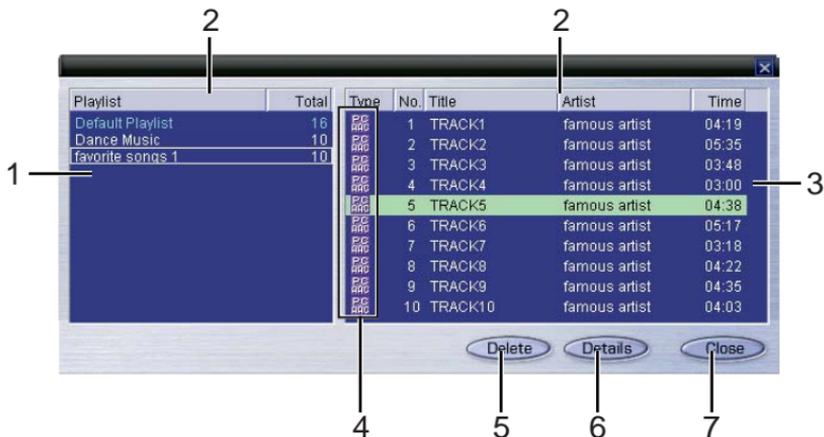
This is the first screen shown when you start SD-Jukebox.



- 1 Selects the media type.
- 2 Display panel: Displays playlist names, titles, artist names, play modes, track numbers, and elapsed time.
- 3 Changes the play mode.
No display → One-track repeat → All-track repeat → Random.
- 4 Displays the <CD Recording Screen>.
- 5 Displays the <Check out to SD Screen>.
- 6 Displays the MP3/WAV and WMA <Convert File Screen>.
- 7 Closes SD-Jukebox.
- 8 Displays the <Settings Screen>.
This screen is used for actions such as selecting the playback drive, entering settings such as the data storage location, and formatting SD Memory Cards. This cannot be clicked during playback.
- 9 Displays the <Playlist Screen>.
- 10 Adjusts the volume.
- 11 Queues the previous track or the next track.
- 12 Starts playback.
- 13 Pauses playback.
- 14 Stops playback.
- 15 Fast-forwards and rewinds.

Names and functions of the screen elements

<Playlist Screen>

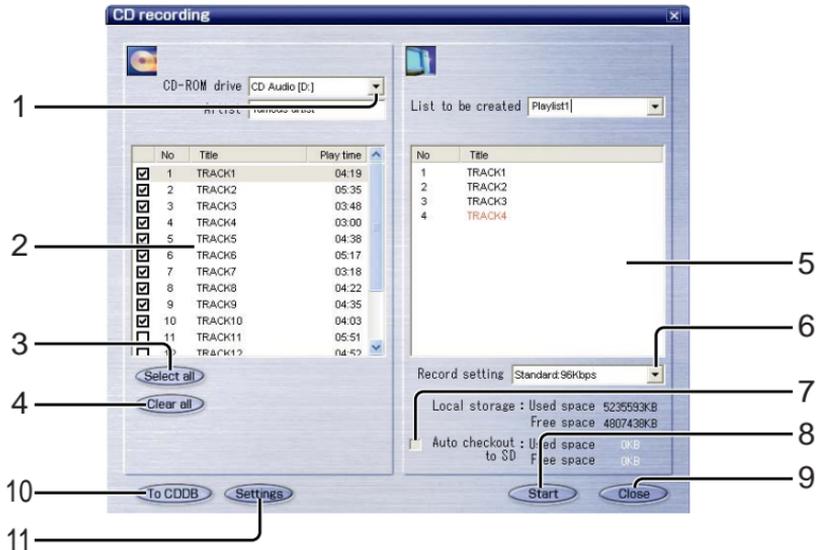


- 1 Displays the playlist and the number of tracks on the playlist. When you double-click a playlist, the tracks on the playlist are displayed in 3.
- 2 Click a column to sort the list according to that column.
- 3 Displays the title, artist name, and track playing time. Double-click a track to start playback.
- 4 Displays the data format.
- 5 Deletes a playlist or track.
- 6 Displays the title, creation date, file storage location, and other details related to the track.
- 7 Closes the <Playlist Screen>.



Names and functions of the screen elements

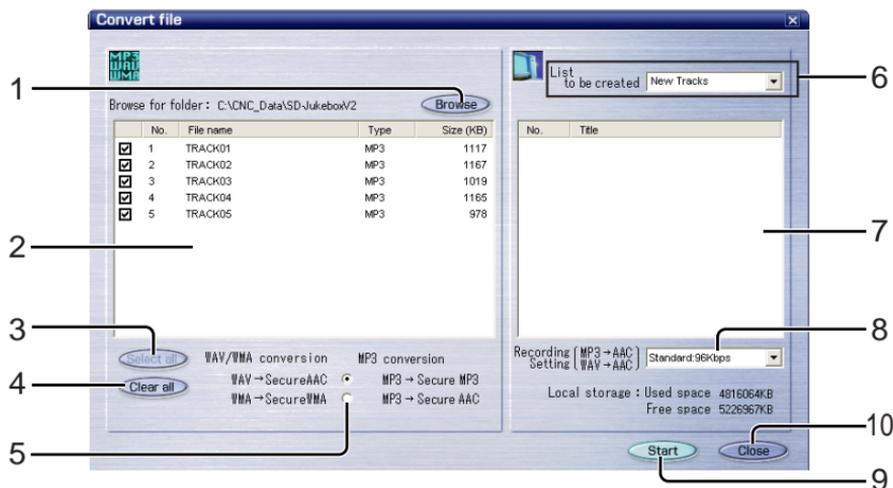
<CD Recording Screen>



- 1 Used to select the CD-ROM drive containing the CD to be recorded. Initially the currently selected drive is displayed.
- 2 Displays the tracks on the CD in a list. Titles can be entered directly.
- 3 Selects all tracks.
- 4 Clears all selected tracks.
- 5 Displays the track being recorded in red, and displays already-recorded tracks in black.
- 6 Sets the recording quality.
- 7 Automatically checks out a track to SD after recording to the PC.
- 8 Starts recording.
- 9 Closes the screen.
- 10 Allows CD track information entered or corrected by the user to be sent to CDDB and registered on the server.
- 11 Sets the base file name which is to be set by default.

Names and functions of the screen elements

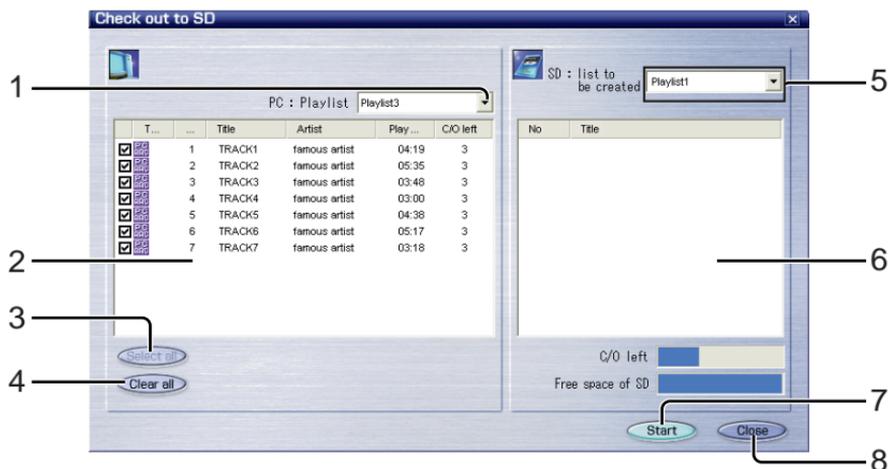
<Convert File Screen>



- 1 Used to select the folder containing the music data (file) to be converted.
- 2 Displays just the MP3, WAV, and WMA files that can be converted, along with their file sizes.
- 3 Selects all files.
- 4 Deselects currently selected files.
- 5 Sets the MP3 conversion method.
Normally, "MP3 → Secure MP3" is selected. Select "MP3 → Secure AAC" if necessary for the SD Audio Player (Technics Electronic keyboard) you are using.
- 6 Used to enter the name of a new playlist being created.
- 7 Displays the track being converted in red, and displays already-converted tracks in black.
- 8 Sets the sound quality of a track which is being converted.
- 9 Starts conversion.
- 10 Closes the screen.

Names and functions of the screen elements

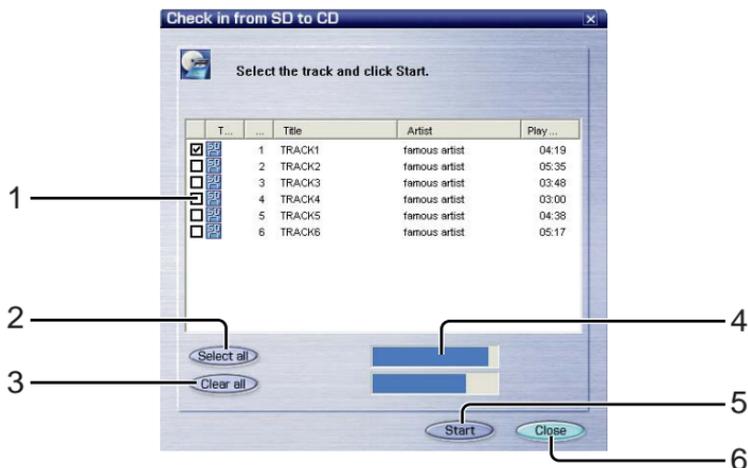
<Check out to SD Screen>



- 1 Used to select the PC playlist to be checked out to SD.
- 2 Displays the PC playlist tracks and the remaining check out count to SD Memory Card.
- 3 Selects all tracks.
- 4 Deselects all currently selected tracks.
- 5 A new playlist name to be created on SD is entered here.
- 6 Displays the track being checked out in red, and displays already-checked-out tracks in black.
- 7 Starts check out.
- 8 Closes the screen.

Names and functions of the screen elements

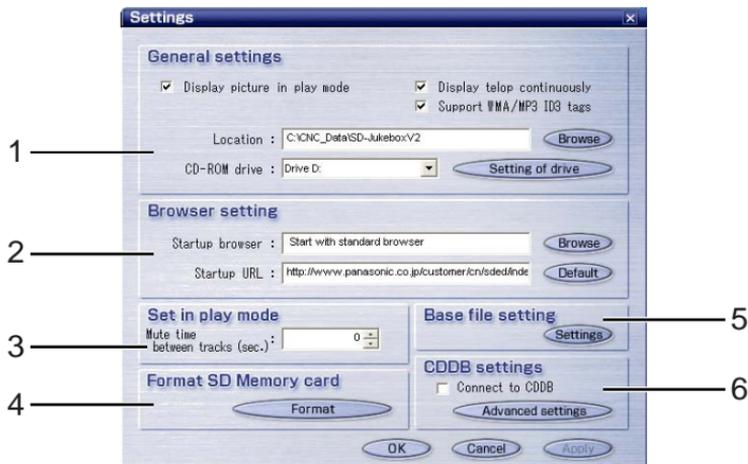
<Check in from SD to PC Screen>



- 1 Displays the tracks on the SD.
- 2 Selects all tracks.
- 3 Deselects all currently selected tracks.
- 4 Displays the memory capacity of each.
- 5 Starts check in.
- 6 Closes the screen.

Names and functions of the screen elements

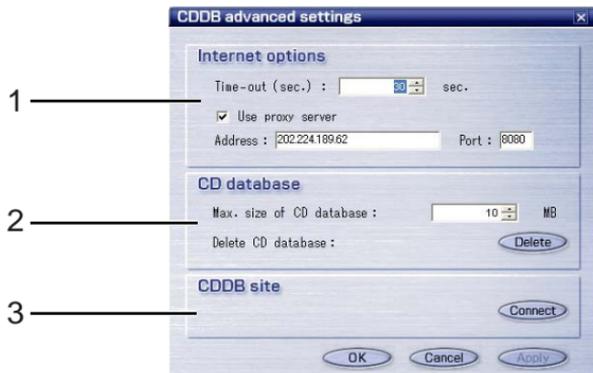
<Settings Screen>



- 1 Sets various functions.
- 2 Sets the browser and URL to be opened when CDDB is used.
- 3 Sets the mute time between tracks.
- 4 Formats the SD Memory Card.
- 5 Sets the base file name which is to be set by default.
- 6 Sets the CDDB function.

Names and functions of the screen elements

<CDDDB Advanced Settings Screen>



- 1 Sets the connection to the Internet.
- 2 Sets the CD title database.
- 3 Connects to the CDDDB site.

Formatting an SD Memory Card

When an SD Memory Card is formatted, all data on the card is erased.

CAUTION

- When an SD Memory Card is formatted tracks checked out using SD-Jukebox as well as all other data are erased. Before formatting an SD Memory Card, be sure to check its contents.
- Only use the procedure shown below to format an SD Memory Card. Check out and playback may not work properly if other formatting procedures are used.

- 1** Click [Settings] on the <Main Screen> to display the <Settings Screen>.
- 2** Click [Format].
- 3** When the <Confirmation Screen> appears, click [Yes].
Formatting starts.
- 4** When the <Formatting Finished Screen> appears, click [OK].

Uninstalling SD-Jukebox

Before uninstalling SD-Jukebox, first disconnect the USB Reader/Writer.

- 1 From the Windows Start menu, select "Settings" → "Control Panel".**
- 2 Double-click "Add/Remove Programs".**
The <Add/Remove Programs Properties Screen> is displayed.
- 3 Click the [Install/Uninstall] tab.**
- 4 Click [SD-JukeboxV2], then click [Add/Remove].**
The <Welcome Screen> appears.
- 5 Click [OK].**
SD-JukeboxV2.4 is deleted, and a <Confirmation Screen> is displayed.
- 6 Click [Finish].**



Troubleshooting

Before requesting service, make the below checks.

(If the steps presented here do not solve your difficulty, check your PC's operating manual as well.)

If you are in doubt about some of the check points, or if the remedies indicated in the chart do not solve the problem, contact

North America; the Panasonic Customer Call Center at 1-800-211-7262, or
e-mail consumerproducts@panasonic.com, or web site
(<http://www.panasonic.com/sd>).

Europe; the Panasonic Europe portal web site <http://www.panasonic-europe.com>

■ Problems during installation and startup

At these times	Check here for problem
Installation does not work	<ul style="list-style-type: none">• Have you inserted the installation CD-ROM?• Did you specify the correct CD-ROM drive?• Under "User Information", did you correctly enter the number shown on the CD-ROM package?
Unable to start SD-Jukebox	<ul style="list-style-type: none">• Did you install SD-Jukebox onto the hard disk drive? SD-Jukebox cannot be started directly from the installation CD-ROM.• Does your PC have at least 64MB of RAM? ( page 4)

■ Problems during recording to PC

At these times	Check here for problem
Unable to record	<ul style="list-style-type: none">• Is the CD damaged?• On the <Settings Screen>, check whether the correct CD-ROM drive (playback drive) has been selected.• Is there enough free space on the PC's hard disk drive? ( page 4)
Unable to select [CD] from the <Main Screen>	<ul style="list-style-type: none">• Check whether a CD has been properly inserted in the PC.
CD not recognized	<ul style="list-style-type: none">• Check whether a CD has been properly inserted in the PC, then click [CD] on the <Main Screen>.

Troubleshooting

■ Problems during playback operations

See the SD Audio Player (Technics Electronic keyboard)'s Operating Instructions for information on playback using the SD Audio Player (Technics Electronic keyboard).

At these times	Check here for problem
Unable to play	CD: Has a CD been inserted? If a CD has been properly inserted, click [CD] on the <Main Screen>. PC: Is there music data on the PC?
Unable to start playback at the first track	Is the playback mode set to random? Check the playback mode in the display panel on the <Main Screen>. ( page 29)
One track (or all tracks) is played repeatedly	Is the playback mode set to one-track repeat (or all-track repeat)? Check the playback mode in the display panel on the <Main Screen>. ( page 29)
Unable to play back from the desired playlist	Click [List] on the <Main Screen> to display the <Playlist Screen>, where you can select the desired playlist. ( page 28)
There is no sound or the volume is too low	<ul style="list-style-type: none">• Click  to increase the volume.• Check the volume setting on the PC. Even if the volume setting in SD-Jukebox is high, if the PC's volume is set to zero or mute, you won't hear any sound.
Sound quality is poor	The music may have been recorded at a low sound quality setting. Change the sound quality in "Recording Settings" and redo the recording. ( page 20)
Unable to click a button	During playing, you cannot click the [Settings] button on the <Main Screen>.
Buzzing sound	Depending on the characteristics of your CD-ROM drive, you may hear a buzzing type of sound when you play a CD or recorded music data.
CD TEXT information not displayed	The CD-ROM drive in your PC must support CD TEXT.

Troubleshooting

■ Problem related to SD Memory Card

Check whether the SD Memory Card can be played on the SD Audio Player (Technics Electronic keyboard). The SD Memory Card may have been damaged if it cannot be played on the SD Audio Player (Technics Electronic keyboard). You may be able to use the SD Memory Card if you reformat it, but all of the data on the card will be erased.

At these times	Check here for problem
SD Memory Card not recognized, or unable to select [SD] on <Main Screen>	<ul style="list-style-type: none">• Check whether the SD Memory Card has been properly inserted in the USB Reader/Writer (sold separately).• Check whether the USB Reader/Writer (sold separately) has been properly connected to the PC. If the SD Memory Card is still not recognized after the above procedures, try restarting your PC.
Unable to select [SD] or [Check out] on the <Main Screen>, or [Auto check out to SD] on the <CD Recording Screen>	The SD Memory Card may not have been recognized. Make sure the SD Memory Card has been properly connected to the PC, then click [SD] on the <Main Screen> to make the PC recognize the SD Memory Card.
USB Reader/Writer drive not displayed	There may be an IRQ (interrupt level) conflict in the PC. 1 From the Windows Start menu, select "Settings" → "Control Panel". Next, double-click "System". 2 Click the "Device Manager" tab and disable unneeded devices. 3 Disconnect the USB Reader/Writer and restart the PC. 4 Reconnect the USB Reader/Writer.
Unable to check out	<ul style="list-style-type: none">• Check out to an SD Memory Card is limited to three times in order to protect copyrights. ( page 6)• Is the write-protect switch on the SD Memory Card set to the LOCK position? ( page 13)
Unable to check out even though there is free space on the SD Memory Card	The data may have been altered through Explore or another program. When an SD Memory Card is formatted through SD-Jukebox ( page 38), it can be used to check out tracks. However, formatting an SD Memory Card erases all of the data on the card, so be sure to check in the card data you need before formatting.
Problems after formatting an SD Memory Card <ul style="list-style-type: none">• The USB Reader/Writer's ACCESS lamp does not turn off• Error messages are displayed, etc.	The card may have been formatted by a program other than SD-Jukebox. Close SD-Jukebox and remove the card, then reinsert it.

Limits related to copyright protection

- In compliance with the stipulations of SDMI (Secure Digital Music Initiative), SD-Jukebox incorporates software usage limits related to copyright protection.
 - * Limitations related to SD Memory Cards ( Page 2)
 - * SD-Jukebox may not work with SD Memory Cards containing copy limitation information, and music data recorded using DVD audio equipment.
 - * In cases where the copyright holder or service provider has added music data use method conditions to the music data, the music data must be used in accordance with those conditions.
- Pursuant to copyright law, recordings you make may not be used for purposes other than individual enjoyment without the consent of the copyright holder.

Limitations related to Windows Explorer

- When an SD Memory Card is connected to your PC, it is displayed as an external drive (e.g., "D drive") in Windows Explorer. Do not use Explore to move, rename, delete, compress, or otherwise alter music data and folders on an SD Memory Card. Music data altered through Explorer cannot be played. Always edit music data through SD-Jukebox.
- Likewise, do not use Windows Explorer to delete, move, rename, or otherwise alter music data and folders on your PC.

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A database service provided by Gracenote (a US company) for finding CDs around the world. When you play a CD in an application supporting CDDB, the application automatically references data from CDDB and downloads information such as the artist name and titles.	
CD TEXT	20
A standard for recording text information such as titles onto music CDs. In addition to voice data, up to 6000 characters of 1-byte code (3000 characters of 2-byte code, for languages, including Japanese) can be recorded onto a CD. CD TEXT supports a variety of languages.	
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Check in refers to the process of moving tracks, which have been checked out to an SD Memory Card, back to the PC.	
Check out	6,22
Check out refers to the process of writing tracks recorded on a PC to an SD Memory Card.	
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The collection of all recorded or checked-out music data.	
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MP3	5,16,47
MP3, which stands for MPEG1 AUDIO Layer3, is an audio compression system used with MPEG1. Three layers (Layer1, Layer2, and Layer3) have been standardized for MPEG1 AUDIO. Layer3 has the highest compression rate, so MP3 is used on the Internet and in other applications.	
MPEG-2 AAC	6
MPEG, which stands for Moving Picture Experts Group, is a standard created by an organization for compressing multimedia data. AAC, which stands for Advanced Audio Coding, is an audio compression system used with MPEG-2 and MPEG-4. This system enables high-quality audio playback with a high compression rate.	
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Playlist	7,20
A list created by selecting desired tracks.	
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SD Memory Card	5,11
A memory card containing copyright protection information. Features include a fast data transfer rate, and a thinner, lighter, and more compact form factor than CompactFlash.	
SDMI	2,43
SDMI, which stands for Secure Digital Music Initiative, is a group of projects designed to establish a format to enable safe distribution and sales of music through music delivery over the Internet and the like.	

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WMA, which stands for Windows Media™ Audio, is a compression format developed by Microsoft Corporation in the US. WMA enables sound quality on par with MP3 while using smaller file sizes.	

Supported formats

Supported formats (stereo only)

- Music CDs : CD-DA, CD-EXTRA, CD TEXT
- MP3 : MPEG-1 layer3 and MPEG2 layer3 low sampling frequency variable bit rates supported
- WMA : Windows Media Audio 32 /44.1 /48 kHz, 64~160 kbps
- WAV : PCM 44.1 kHz 16 bits

Conversion table

Input format (2-channel stereo only)		Output format (2-channel stereo)		Secure AAC					Secure MP3	Secure WMA
				64 kbps	96 kbps		128 kbps			
		32 kHz	44.1 kHz	48 kHz	44.1 kHz	48 kHz				
Music CD	CD-DA	○	○	×	○	×	×	×		
	CD-EXTRA	○	○	×	○	×	×	×		
MP3	16/22.05/24 kHz 32 kbps~192 kbps	×	×	×	×	×	○	×		
	32 kHz 32 kbps~192 kbps	○	○	×	○	×	○	×		
	44.1 kHz 32 kbps~192 kbps	○	○	×	○	×	○	×		
	48 kHz 32 kbps~192 kbps	○	×	○	×	○	○	×		
WMA	32 / 44.1/ 48 kHz 64 kbps~160 kbps	×	×	×	×	×	×	○		
	WAV	44.1 kHz / 172 KB / second	○	○	×	○	×	×	×	

Sampling frequency and bit rate are not converted during conversion from MP3 to secure MP3 or conversion from WMA to secure WMA.

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