

Portable MiniDisc Player

Operating Instructions

Player Operation _____ **page 11**


Software Operation _____ **page 44**



NetMD



MDLP

"WALKMAN" is a registered trademark of Sony Corporation to represent Headphone Stereo products.  is a trademark of Sony Corporation.

MZ-NF520D

WARNING

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

Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.

To prevent fire, do not cover the ventilation of the apparatus with news papers, table cloths, curtains, etc. And don't place lighted candles on the apparatus.

To prevent fire or shock hazard, do not place objects filled with liquids, such as vases, on the apparatus.

Certain countries may regulate disposal of the battery used to power this product. Please consult with your local authority.

Caution

The use of optical instruments with this product will increase eye hazard.

CAUTION — CLASS 1M INVISIBLE LASER RADIATION WHEN OPEN

DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS

Information

IN NO EVENT SHALL SELLER BE LIABLE FOR ANY DIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY NATURE, OR LOSSES OR EXPENSES RESULTING FROM ANY DEFECTIVE PRODUCT OR THE USE OF ANY PRODUCT.

For customers who purchased this product in the USA

Owner's Record

The serial number is located at the rear of the disc compartment lid and the model number is located at the top and bottom. Record the serial number in the space provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. MZ-NF520D

Serial No. _____

Product registration

Please register this product on line at www.sony.com/walkmanreg
<<http://www.sony.com/walkmanreg>>

Proper registration will enable us to send you periodic mailings about software upgrades, new products, services and other important announcements. Thank you.

If you have any questions about this product, contact:

- <http://www.sony.com/walkmansupport>
- **Sony Network Portable Audio Support Line**
1-(866)-456-7669
- **Sony Customer Information Services Center**
12451 Gateway Blvd. Fort Myers, FL 33913

Declaration of Conformity

Trade Name: SONY

Model No.: MZ-NF520D

Responsible Party: Sony Electronics Inc.

Address: 16450 W. Bernardo Dr, San Diego, CA 92127 USA

Telephone No.: 858-942-2230

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.

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.

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

Notice for users

On the supplied software

- Copyright laws prohibit reproducing the software or the manual accompanying it in whole or in part, or renting the software without the permission of the copyright holder.
- In no event will SONY be liable for any financial damage, or loss of profits, including claims made by third parties, arising out of the use of the software supplied with this player.
- In the event a problem occurs with this software as a result of defective manufacturing, SONY will replace it. However, SONY bears no other responsibility.
- The software provided with this player cannot be used with equipment other than that which is so designated.
- Please note that, due to continued efforts to improve quality, the software specifications may be changed without notice.
- Operation of this player with software other than that provided is not covered by the warranty.

Notes

- The recorded music is limited to private use only. Use of the music beyond this limit requires permission of the copyright holders.
- Sony is not responsible for music files that cannot be saved on your computer due to unsuccessful recording from a CD or from music downloading.

On the battery

- When you replace the battery, be sure to use a new one.
- If “LoBATT” appears even once in the display, replace the battery.

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Before using this product

This manual explains the player operations and the installation and basic use of the supplied software.

For details on the various operations, refer to the pages indicated below.

When using the player

Player Operation (pages 11 to 42)

Pages 11 to 42 in this manual explain all of the player functions.

Troubleshooting and explanations (page 39)

This section shows the troubles you may find while using the player, and their solutions.



When using the Net MD (the player) connected to your computer

Software Operation (pages 44 to 65)

Pages 44 to 65 in this manual explain the installation and basic operations of the supplied SonicStage and MD Simple Burner software.

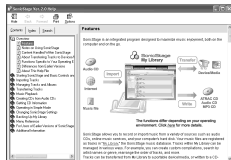
Other information (page 61)

This section shows the troubles you may find while using the supplied SonicStage software, and their solutions. It also has the list of frequently asked questions and answers.

SonicStage Ver. 2.0 Help

This is a help that you can view on your computer screen.

Refer to Help for details on the use of the software. To display the help window, see page 57.

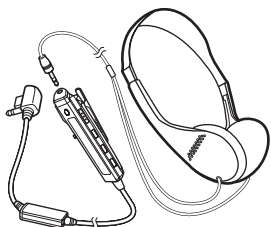


Notes on the "Software Operation" section

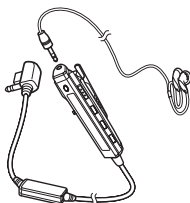
- The displayed items in the illustrations that appear in this section may differ from the actual items displayed by the software.
- Explanations in this section assume familiarity with basic Windows operations. For details on the use of your computer and the operating system, please refer to the respective manuals.
- Explanations in this section cover general Net MD products. For this reason, some explanations (and some illustrations) may not be applicable to your Net MD. Please refer to the operating instructions of your Net MD as well.

Checking the supplied accessories

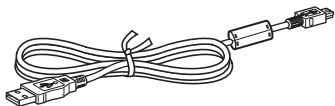
Headphones with a remote control (1)
(for USA model)



Earphones with a remote control (1)
(for Canadian model)



Dedicated USB cable (1)

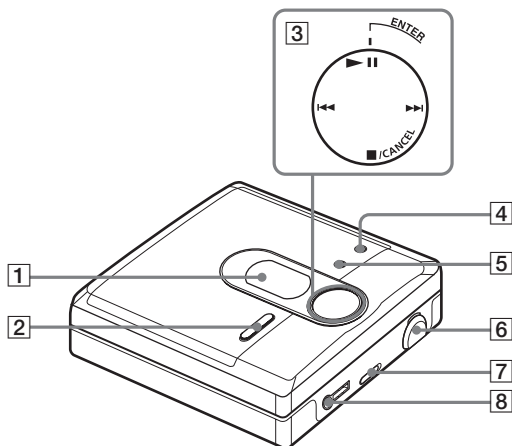


CD-ROM (SonicStage Ver. 2.0 and MD Simple Burner Ver. 2.0) (1)*
Recordable disc (1)

*Do not play a CD-ROM on an audio CD player.

Looking at the controls

Front of the player



1 Display window

2 VOLUME +* and – button

* The VOLUME + button has a tactile dot.

3 4-position control key

ENTER/▶|| (enter/play/pause)*

◀◀ and ▶▶ (search/AMS)

■/CANCEL (stop/cancel)

* The ENTER/▶|| button has a tactile dot.

4 MENU button

5 GROUP button

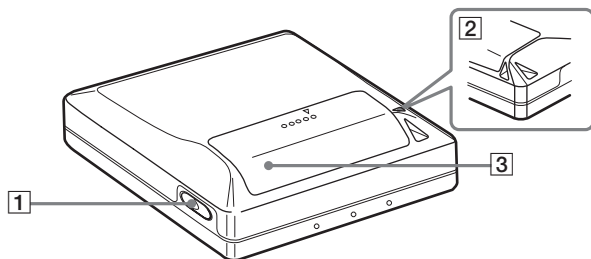
6 USB jack

When connecting to your computer, connect the dedicated USB cable to this jack.

7 HOLD switch

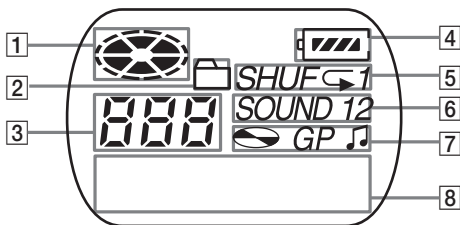
8 ◡ (headphones/earphones) jack

Back of the player



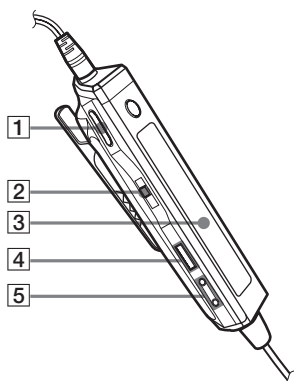
- 1** OPEN button
- 2** Hand strap hole
Use the hole to attach your own strap.
- 3** Battery compartment lid

The display window of the player

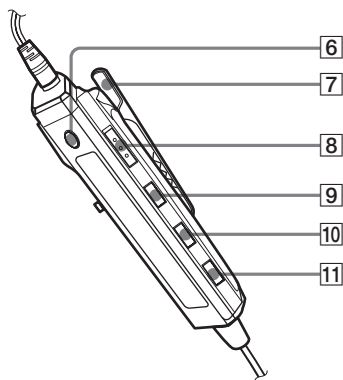


- 1** Disc indication
- 2** Group mode indication
Lights up when group mode is on.
- 3** Track number display
- 4** Battery level indication
Shows approximate battery condition.
- 5** Play mode indication
Shows play mode of the MD.
- 6** SOUND indication
- 7** Disc, group, track indication
- 8** Character information display
Displays the track names, elapsed time, etc.

The headphones/earphones with a remote control

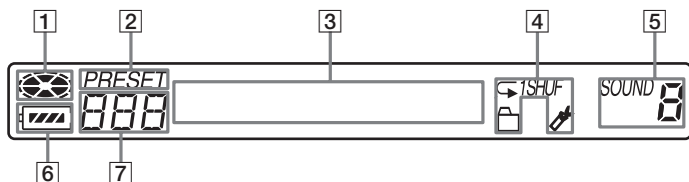


- 1** VOL +, - buttons
Press to adjust the volume.
- 2** Jog lever (◀◀ • ▶▶ ||/ENT • ▶▶▶, TUNE - • BAND • TUNE +)
 - ▶▶||/ENT (to press): play, pause, enter
 - ◀◀ (to slide towards): REW
 - ▶▶▶ (to slide towards): FF
 - BAND (to press): select a band
 - TUNE - (to slide towards): tune backward
 - TUNE + (to slide towards): tune forward
- 3** Display window
- 4** ■ (stop) button
- 5** ☞ (group) +, - buttons



- 6** RADIO ON/OFF button
Press to turn on or off the radio.
- 7** Clip
- 8** HOLD switch
To prevent the buttons from being accidentally operated when you carry the player, use this function.
- 9** DISPLAY button
- 10** P-MODE/ ↶ button
- 11** SOUND button

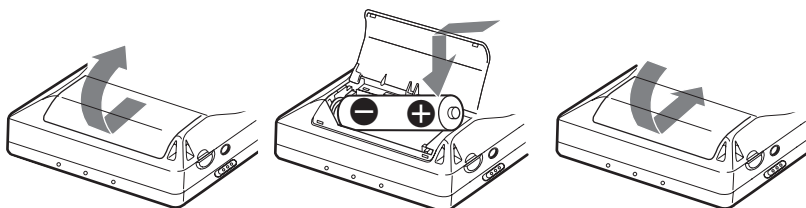
The display window of the remote control



- | | |
|--|---|
| 1 Disc indication | 5 SOUND indication |
| 2 PRESET indication | 6 Battery level indication |
| 3 Character information display | 7 Track number/Band/Presets number display |
| 4 Play mode indication | |

Getting started!

1 Insert an alkaline dry battery.



Slide to open the battery compartment lid.

Insert one LR6 (size AA) alkaline dry battery minus end first.

Close the lid.

When to replace the battery

You can check the battery condition through the battery indicator while using the player.



Battery power decreasing



Weak battery



The battery has gone out.

“LoBATT” flashes in the display, and the power goes off.

Battery life¹⁾

When	SP Stereo	LP2 Stereo	LP4 Stereo
playing ²⁾	Approx. 36 hours	Approx. 42.5 hours	Approx. 48 hours
transferring audio data from the computer ³⁾	55 tracks (of about 5 minutes each)	230 tracks (of about 5 minutes each)	325 tracks (of about 5 minutes each)

¹⁾ When using a new Sony LR6 (size AA) alkaline dry battery (produced in Japan).

²⁾ Measured in accordance with the JEITA (Japan Electronics and Information Technology Industries Association) standard.

³⁾ The numbers of tracks that can be transferred differs according to the computer's operating environment.

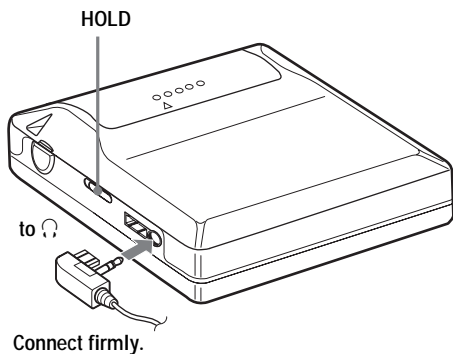
When	FM	TV/Wb(weather)(USA model only)
using the radio	Approx. 18.5 hours	Approx. 17 hours

Notes

- Disconnect the dedicated USB cable before replacing the dry battery.
- The battery life may be shorter than that specified, depending on the operating conditions, the temperature of the location, and varieties of batteries.
- **When you replace the battery, be sure to use a new one.**
- If “LoBATT” appears even once in the display, replace the battery.

2 Make connections and unlock the controls.

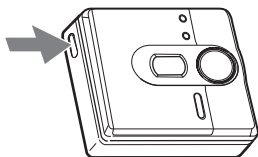
- 1 Connect the headphones/earphones with the remote control to .
- 2 Slide HOLD in the opposite direction of the arrow indicated on the player (HOLD ) to unlock the control.



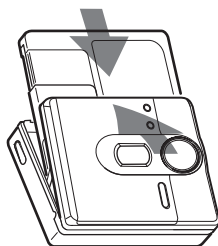
Playing an MD right away!

1 Insert an MD.

1 Press OPEN to open the lid.



2 Insert an MD to the direction of the arrow with the label side facing front, and press the lid down to close.



2 Play an MD.

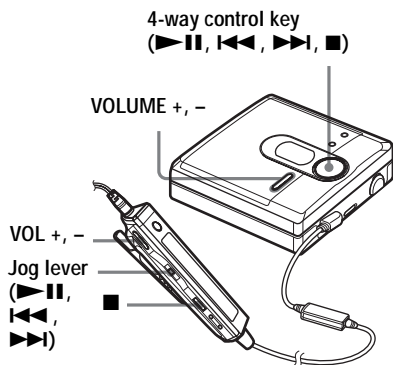
1 Press **▶||** on the player.
(Press the jog lever (**▶||**) on the remote control.)


2 Press **VOLUME +** or **-** to adjust the volume.
(Press **VOL +** or **-** on the remote control.)
The volume will be shown in the display.

To stop play, press ■.

After you stop the player, the player will automatically turn off in about 10 seconds. Playback starts from the point you last stopped playing.

To start with the first track of the disc, press **▶||** on the player or the jog lever (**▶||**) on the remote control for 2 seconds or more.



To	Operation on the player	Operation on the remote control
Pause	Press ► . Press ► again to resume play.	Press the jog lever (►). Press the jog lever (►) again to resume play.
Cue to the current track or the previous track	Press ◀◀◀. Press ◀◀◀ repeatedly.	Slide the jog lever towards ◀◀◀. Slide the jog lever towards ◀◀◀ repeatedly.
Cue to the next track	Press ►►►.	Slide the jog lever towards ►►►.
Go backwards or forward while playing	Press and hold ◀◀◀ or ►►►.	Slide and hold the jog lever towards ◀◀◀ or ►►►.
Search for a specific position while viewing a elapsed time (Time Search)	Press and hold ◀◀◀ or ►►► while pausing.	Slide and hold the jog lever towards ◀◀◀ or ►►► while pausing.
Search for a specific track while viewing track names and numbers (Index Search)	Press and hold ◀◀◀ or ►►► while the player is stopped.	Slide and hold the jog lever towards ◀◀◀ or ►►► while the player is stopped.
Cue to the beginning of the every 10th track (only during playback of the disc with no group settings ¹⁾)	Press GROUP, and then press ◀◀◀ or ►►►.	Press  + or – button
Remove the MD	Press ■ and open the lid. ²⁾	Press ■ and open the lid.

¹⁾ For more details, see “Using the group function” (page 25).

²⁾ Once you open the lid, the point to start play will change to the beginning of the first track.

Suppressing the skip of the sound (G-PROTECTION)

The G-PROTECTION function was developed to provide a higher level of shock resistance than that of existing players in order to allow the player to be used while joggng.

Note

The playback sound may skip if:

- the player receives stronger continuous shock.
- a dirty or scratched MiniDisc is played.



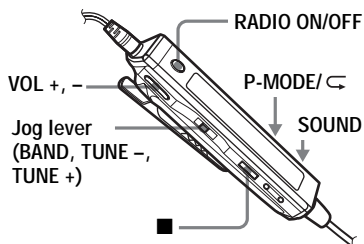
- The MZ-NF520D supports DSP TYPE-S for ATRAC/ATRAC3. It thus allows you to enjoy TYPE-S high-quality sound from MDs recorded in MDLP mode on TYPE-S-equipped MD decks, etc.
- The player can play the track recorded by 2 × or 4 × long playing mode (LP2 or LP4). Normal stereo playback, LP2 stereo playback, LP4 stereo playback or monaural playback is automatically selected to match the audio source.

Listening to the radio

You can listen to the FM broadcast through the built-in digital tuner in the remote control. With the USA model, you can also listen to TV and weather broadcasts.

Controls on the player cannot be used to operate the tuner.

1 Turn on the radio.



- 1 Press RADIO ON/OFF.**
The radio turns on.
If "PRESET" is displayed, press P-MODE/□ to make it disappear from the display.
- 2 For the USA model, press the jog lever repeatedly to select the band.**
Each time you press the jog lever, the indication changes as follows:
"FM" → "TV" → "Wb"(weather)
For the Canadian model, only the FM band can be received. You cannot select other bands.
- 3 Slide the jog lever towards TUNE + or TUNE - repeatedly to tune in the desired radio station.**
- 4 Press VOL +, - to adjust the volume.**

To turn off the radio
Press RADIO ON/OFF or ■.

To tune in a station quickly
(FM only)

In step 3, slide and hold the jog lever until the frequency indication begins to change. The remote control automatically scans the radio frequencies and stops when it finds a clear station.

To improve the broadcast reception

Extend the headphones/earphones cord, which act as the FM antenna.

If an FM broadcast is hard to tune in

Press SOUND repeatedly until “Local” appears in the display. The noise will be reduced.

When you cannot operate the radio

Make sure the remote control is not locked (page 14, 17).

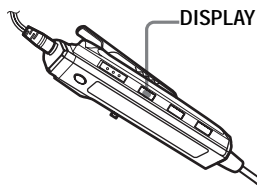
Notes

- The radio will not operate if the remote control is not connected to the player.
- The volume of radio and MD can be adjusted individually using the supplied remote control.
- Playback stops when you use the radio.
- Do not place the remote control close to another electronic device, such as the player itself, another radio, a TV, a mobile phone, or a computer, as this may cause noise in the reception.
- When you use the radio, it is recommended that you use a new dry battery since more power is consumed by the radio than by MD playback.

In this section, the operation using the remote control is mainly explained. For details on operations done on the player, see the pages indicated for each operation.

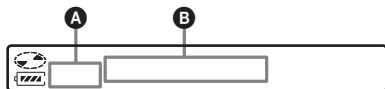
Viewing various information

You can check the track or disc name, track number, the elapsed playing time of the current track, the number of the tracks recorded on the MD, the group name, and the total number of tracks in a group.



- 1 While playing, press DISPLAY. Each time you press DISPLAY, the display changes as follows:

Display window on the remote control



Display: A/B

A	B
Track number	The elapsed time
Track number	Track name
The number of total tracks in the group	Group name
The number of total tracks	Disc name
Track number	Track mode

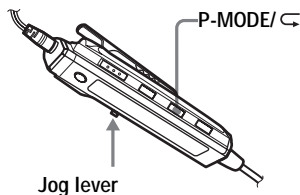
Notes

- Depending on whether group play or normal play is selected, the operating conditions, and the disc settings, you may not be able to select certain indications or the indications may appear differently.
- During playback, the track mode appears momentarily, and is then replaced by the elapsed time of the current track.

For the player operation, see page 33.

Selecting the play mode

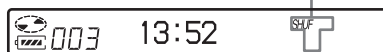
You can select from the various play modes using the P-MODE/◀ button.




- 1 Press P-MODE/◀ repeatedly. Each time you press the button, the play mode changes as follows:

Display window on the remote control

Play mode indication





Indication ¹⁾	Play mode
(none) (normal play)	All the tracks are played once.
1 (single-track play)	A single track is played once.
SHUF (shuffle play)	All the tracks are played in random order.

¹⁾ Group play mode () appears whenever you play a disc with group settings. For more details, see “Selecting the play mode for group play (Group Play Mode)” (page 26).

For the player operation, see page 30.

Playing a track repeatedly (Repeat Play)


You can use the repeat function for normal play, single-play, and shuffle play mode.

- 1 During playback in the selected play mode, press and hold P-MODE/ for 2 seconds or more.
 appears in the display.

To cancel repeat play

Press and hold P-MODE/ for 2 seconds or more.

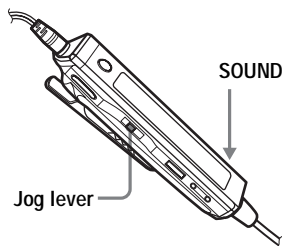


By pressing P-MODE/ button during repeat play, you can change the play mode to be used with repeat play.

For the player operation, see page 30.

Adjusting treble or bass (Digital Sound Preset)

You can adjust the treble and bass to suit your taste. The player can store two sets of treble-bass adjustments, which can then be selected later during playback.



Selecting the sound quality

Factory settings

Factory settings of the Digital Sound Preset are as follows:

- “SOUND1”: bass +1, treble ± 0
- “SOUND2”: bass +3, treble ± 0

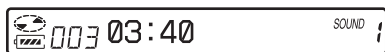
- 1 Press SOUND repeatedly to select “SOUND1” or “SOUND2” in the display.

To cancel Digital Sound Preset
Select “OFF” in step 1.

Adjusting the sound quality

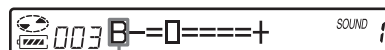
You can change the preset sound quality and store the results in "SOUND1" or "SOUND2".

- 1 Press SOUND repeatedly to select "SOUND1" or "SOUND2".



- 2 During playback, press SOUND for 2 seconds or more.

The player changes to B (bass) setting mode. Pressing jog lever changes the player to T (treble) setting mode.

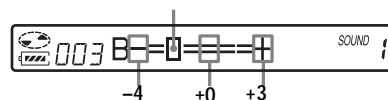


When you select bass-setting mode, "B" appears. When you select treble setting mode, "T" appears.

- 3 Slide the jog lever repeatedly to adjust the level.

Example: While adjusting the bass

The cursor moves.
(Position: -2)



The sound can be adjusted in 8 steps (-4, -3, ...±0, ...+2, +3).

To switch "B" (bass) and "T" (treble):

Press the jog lever.

To switch "SOUND1" and "SOUND2":

Press SOUND.

- 4 Press the jog lever to enter.

The sound settings are saved and the playback display appears again.

To cancel the setting

Press SOUND repeatedly until nothing appears in the display in step 1.

To cancel the procedure

Press and hold the DISPLAY button or ■ button for 2 seconds or more.

For the player operation, see page 31.



- Settings can also be changed while playback is momentarily paused (■).
- If the player is not operated approximately for 3 minutes, the current setting is stored and the display automatically switches to normal playback.

Note

When you use the Digital Sound Preset, the sound may break or become distorted depending on the settings or the track. In this case, change the settings of the sound quality.

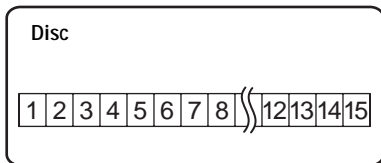
What is the group function?

The group function is provided to allow playback of discs with group settings. The group function is convenient for playback of MDs on which several albums or CD singles have been recorded in MDLP (LP2/LP4) mode.

What is a disc with group settings?

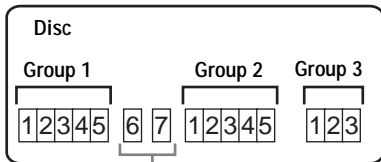
The player can operate various functions in units of group; that is tracks that have been recorded on a disc as part of separate groups, as shown below.

Before group settings are made



- Track 1 to 5 are assigned to group 1.
- Track 8 to 12 are assigned to group 2.
- Track 13 to 15 are assigned to group 3.
- Track 6 to 7 are assigned to no group.

After setting the group (group play)

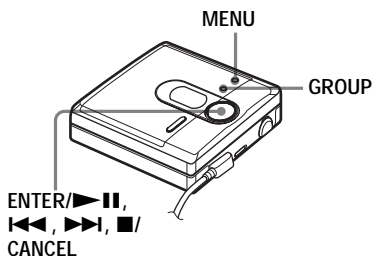


Tracks that were not assigned to a group are treated as being part of "GP --".

You can create a maximum of 99 groups on a disc.

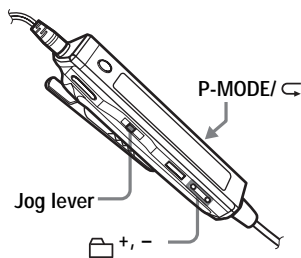
Note

The player does not support the recording of group settings on the player. Use the supplied SonicStage software to assign tracks to group. For details, see "Software Operation" section (page 44).



Playing groups

The player can operate various playback with a disc which has group setting. This section explains the operations that are done on the remote control. For details on operations on the player, see page 30





Playing a track in group play

In group play, all groups are played in order, starting with group 1, followed by the unassigned tracks (“Group -”).

Playback stops after all the tracks have been played.

- 1 During playback, press P-MODE/↺ repeatedly until “↺” appears in the display.

To cue to the start of a group (Group Skip)



- 1 During playback, press  + or -. Pressing  - button cues to the first track in the current group. Pressing the button again cues to the first track of the previous group.

For the player operation, see page 30.

Selecting the play mode for group play (Group Play Mode)



The shuffle play and repeat play function can be used during group play mode.

- 1 Press P-MODE/↺ repeatedly. After normal playback (page 22), the following play modes are displayed.

Display	Play mode
 (Normal Group Play)	All tracks in the groups play back once (starting with the first track in group 1).
 , SHUF (In-Group Shuffle)	Shuffle play starts with the group that is currently playing, and continues with the succeeding groups.

Repeat play for the selected group play mode (Group Repeat Play)

- 1 During playback in the selected group mode, press and hold P-MODE/↺ for 2 seconds or more. “↺” appears in the display. Playback repeats in the respective group play mode.

Display	Play mode
 ↺	Repeat play of tracks within a group
 SHUF ↺	Repeat shuffle play of tracks within a group

Useful settings

The player has various useful functions for playback.

The following table shows the functions that you can select. Some items can be set by menu operations on both the player and the remote control, while others can be set with the buttons on the remote control.

Category	Function	What it does	Operation	Site page
Playing	Selecting the play mode	Selects the play mode, such as repeat play, shuffle play, etc.	player	page 30
			remote control	page 22
	Changing the sound quality	Adjust the treble and bass, and stores two sets of treble-bass adjustment.	player	page 31
			remote control	page 23
	Starting playback quickly	Sets the player to start playback or cue to a track quickly.	player	page 32
			remote control	page 32
	Limiting the maximum volume	Sets a limit on the maximum volume to protect your hearing.	player	page 32
			remote control	page 32
Display	Viewing information	Displays various information such as the remaining time, etc. in the display window.	player	pages 33
			remote control	page 22

This section mainly explains the settings made by menu operations on the player.



List of menus

Menus on the player

Items listed under “Menu 1” are the selectable items which appear when you press MENU, items listed under “Menu 2” are the selectable items which appear when you select an item in Menu 1, and “Menu 3” are the selectable items which appear when you select an item in Menu 2.

Note

Different indication may be displayed depending on the operating conditions and settings.

Menu 1	Menu 2	Menu 3
DISP	LapTim	—
	T:Name	—
	G:Name	—
	D:Name	—
	T-MODE	—
P-MODE	Normal	RepOFF (factory setting) ↔ RepON
	1 Trk	
	Shuff	
	 Normal	
	 Shuff	
SOUND	OFF	—
	SOUND1	—
	SOUND2	—
	SET	SOUND1 ↔ SOUND2
OPTION	AVLS	OFF (factory setting) ↔ ON
	Power	NORMAL (factory setting) ↔ QUICK

Menu on the remote control

Menu 1	Menu 2	Functions
OPTION	AVLS	AVLS OFF (factory setting) ↔ AVLS ON
	PowerMode	NORMAL (factory setting) ↔ QUICK

How to use the menu items

To set the menu items, do the following procedure.

On the player

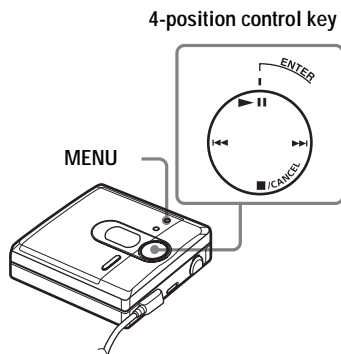
- 1 Press MENU to enter the menu.
- 2 Press ◀◀ or ▶▶ to select the item.
- 3 Press ENTER to enter the selection.
- 4 Repeat steps 2 and 3.
The setting will be entered when you press ENTER at the last.

To return the preceding setting

Press ■.

To cancel the operation while setting

Press and hold ■ for 2 seconds or more.



On the remote control

You can set only the "OPTION" menu.

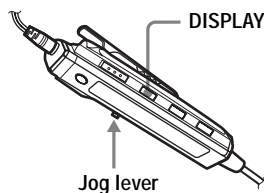
- 1 Press and hold DISPLAY for 2 seconds or more to enter the menu.
- 2 Press the jog lever.
- 3 Slide the jog lever to select the item.
- 4 Press the jog lever to enter the selection.
- 5 Repeat steps 3 and 4.
The setting will be entered when you press the jog lever at the last.

To return the preceding setting

Press ■.

To cancel the operation while setting

Press and hold ■ for 2 seconds or more.



Selecting the play mode

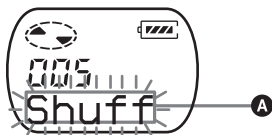
For details and remote control operation, see page 22.

- 1 While the player is playing, enter the menu and select "P-MODE".
- 2 Select the desired play mode.

Each time you press **▶▶I**, the display item indicated by **A** changes as follows:

Pressing **ENTER/▶▶II** while **A** is flashing causes the play mode to enter.

Pressing **▶▶I** repeatedly changes **A**.



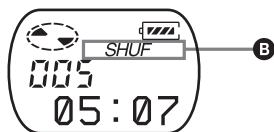
Display A ¹⁾	Play mode
Normal (normal play)	All the tracks are played once.
1 Trk (single-track play)	A single track is played once.
Shuff (shuffle play)	All the tracks are played in random order.

¹⁾ Group play mode () appears whenever you play a disc with group settings. For more details, see "Playing a track in group play" (page 26).

- 3 Press **◀◀I** or **▶▶I** repeatedly until "RepOFF" or "RepON" (playing a track repeatedly) appears in the display, and then press **ENTER/▶▶II** to enter the selection.

If you select "RepON", "**↶**" appears on **B** and the playback repeats with the play mode selected in step 2.

- B** lights up when you press **ENTER/▶▶II**.



Display B	Play mode
↶	Repeat play of all tracks
↶ 1	Repeat play of a selected track
SHUF ↶	Repeat shuffle play of all tracks

To cancel the procedure
Press **MENU**.

To return the preceding settings
Press **■/CANCEL**.

Playing a track in group play

- 1 Do steps 1 and 2 of ("Selecting the play mode", page 30) and select " Normal" in step 2.

To cue to the start of a group (Group Skip)



- 1 Press **GROUP**.
- 2 While "" flashing, press **◀◀I** or **▶▶I**.
Pressing **◀◀I** button cues to the first track in the current group. Pressing the **◀◀I** button again cues to the first track of the previous group.

For the remote control operation, see page 26.

Selecting the play mode for group play (Group Play Mode)

- 1 Do steps 1 to 2 of “Selecting the play mode” (page 30).

After normal playback (page 22), the following play modes appears after normal play.

Display	Play mode
 , Normal (Normal Group Play)	All tracks in the groups play back once (starting with the first track in group 1).
 , Shuff (In-Group Shuffle)	Shuffle play starts with the group that is currently playing, and continues with the succeeding groups.

- 2 Select “RepON” or “RepOFF”.

For the remote control operation, see page 26.




Adjusting treble or bass (Digital Sound Preset)

Selecting the sound quality



- 1 Enter the menu and select “SOUND” - “SOUND1” or “SOUND2”.

To cancel Digital Sound Preset
Select “OFF”.

Adjusting the sound quality

- 1 Enter the menu and select “SOUND” - “SET”.
- 2 Press  or  repeatedly until “SOUND1” or “SOUND2” appears in the display, and then press ENTER/.





The display shows the currently “BASS” sound setting.

- 3 Press  or  repeatedly to adjust the sound level.


Shows “SOUND1” or “SOUND2” is selected



The sound can be adjusted in 8 steps.
(-4, -3, ...±0, ...+2, +3)

- 4 Press ENTER/. “BASS” is set and the display changes to “TRE” (treble) setting mode.
- 5 Press  or  repeatedly to adjust the sound level, and then press ENTER/ to enter the selection. “TRE” (treble) is set.
The sound settings are saved and the playback display appears again.

To cancel the procedure
Press MENU.

To return the preceding settings
Press /CANCEL.

For the details and the remote control operation, see page 23.

Starting the playback quickly (Quick Mode)

After pressing the playback button or cueing to the track, the playback can start quickly.

- 1 Enter the menu and select “OPTION” - “Power”(“PowerMode” on the remote control).
- 2 Select “QUICK”.

Display window on the player



Display window on the remote control



To switch back to the normal setting

Select “NORMAL” in step 2.

To cancel the procedure

Press MENU.

To return the preceding settings

Press ■/CANCEL.

Notes

- When the power mode is set to “QUICK”, the power remains on within the player even when nothing appears in the display. This leads to a shorter battery life.
- If no player operation (including opening or closing of the lid) occurs for an hour, the power in the player automatically turn off. For this reason, the next time you start playback or do another operation, the player will not respond quickly. the unit, however, will return to quick mode afterwards.

Protecting your hearing (AVLS)

The AVLS (Automatic Volume Limiter System) function sets a maximum volume level to protect your ears.

- 1 Enter the menu and select “OPTION” - “AVLS”.

- 2 Select “ON”.

When you try to turn the volume too high, “AVLS” appears in the display. The volume is kept to a moderate level.

To cancel the AVLS

Select “OFF” in step 2.

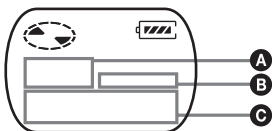
To cancel the procedure

Press MENU.

To return the preceding settings

Press ■/CANCEL.

Viewing various information



A	B	C
Track number	—	The elapsed time
Track number	♪	Track name
The number of total tracks in the group	GP	Group name
The number of total tracks	⊖	Disc name
Track number	—	Track mode

- 1 While playing, enter the menu and select “DISP”.
- 2 Select the information you want.
Each time you press ◀◀ or ▶▶, the display changes as the follows:

Display	Meaning
LapTim	The elapsed time of the current track
T:Name	Track name
G:Name	Group name
D:Name	Disc name
T-MODE	Indicates the recording mode selected on the MD player used; i.e., “SP”, “LP2”, “LP4”, or “MONO”.

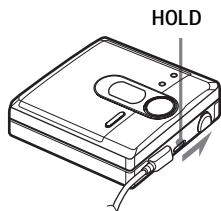
Notes


- Depending on the group settings, the operating conditions and the disc settings, you may not be able to select certain indications or the indications may appear differently.
- The “T-MODE” indication appears only during playback. It appears for a few seconds, and is then replaced by the elapsed time of the current track.

For the details and the remote control operation, see page 22.

Locking the controls (HOLD)

To prevent the buttons from being accidentally operated when you carry the player, use this function.



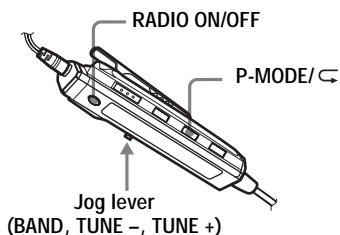
- 1 Slide HOLD in the direction of the  to lock.

To unlock the controls
Slide HOLD to the opposite direction of
the arrow.

Presetting radio stations

For the USA model, up to 41 radio stations can be preset, 30 for FM, 7 for TV, and 4 for Wb (weather).

For the Canadian model, up to 30 FM stations can be preset.



- 1 Press RADIO ON/OFF to turn on the radio.

If "PRESET" is displayed, press P-MODE/⏏ to make it disappear from the display.

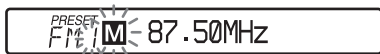
- 2 Press the jog lever repeatedly to select the band.

USA model: "FM" → "TV" → "Wb (weather)"

Canadian model: "FM" only

- 3 Slide the jog lever towards TUNE + or TUNE - repeatedly to tune the desired radio station.

- 4 Press and hold the jog lever until "M" and the preset number flash in the display.



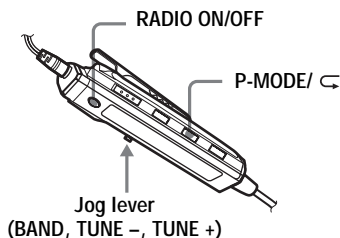
- 5 Slide the jog lever repeatedly until the desired preset number appears in the display.

- 6 Press the jog lever to enter the selection.

A long beep sounds in the headphones/earphones. "PRESET", "M", and preset number disappear in the display.

Listening to the preset radio stations

You can simply tune the station by selecting the preset number.



- 1 Press RADIO ON/OFF to turn on the radio.

- 2 Press the jog lever repeatedly to select the band.

USA model: "FM" → "TV" → "Wb (weather)"

Canadian model: "FM" only

- 3 Press P-MODE/⏏ so that "PRESET" appears in the display.

- 4 Slide the jog lever towards TUNE + or TUNE - repeatedly until the desired preset number appears in the display.

Note

In the case of double-digit preset numbers, the band is indicated in the display by "F" for FM.

Precautions

On safety

- Do not carry or store the dry battery in the same place with metallic objects such as coins, key rings, or necklaces. This may cause a short-circuit and the generation of heat.
- Incorrect battery usage may cause the battery fluid to leak or battery to burst. To prevent such accidents, make sure the battery is installed with the + and – poles oriented correctly.
- If a battery leak should develop, carefully and thoroughly wipe away the battery fluid in the battery compartment before inserting a new battery.
- If you will not use the player for a long time, be sure to remove the dry battery.

On Handling

- Do not drop or bump the player. This may cause the player to malfunction.
- Do not pull headphones/earphones cords.
- Do not place the player in the following places:
 - An extremely hot place (over 60°C (140°F))
 - A place exposed to direct sunlight or near a heater
 - In a car with the windows rolled up (especially in the summer)
 - In a damp place such as a bathroom
 - Near a source of electromagnetic fields such as a magnet, speaker, or TV
 - In a dusty place

On heat build-up

Heat may build up in the player if it is used for an extended period of time. This, however, is not a malfunction.

On mechanical noise

The player emits mechanical noise while operating, which is caused by the power-saving system of the player. This is not a malfunction.

On installation

Never use the player where it will be subjected to extremes of light, temperature, moisture or vibration.

On the MiniDisc cartridge

- Do not touch the internal disc directly. Forcing the shutter open may damage the internal disc.
- When transporting a MiniDisc, keep it in its case.
- Do not place the cartridge where it will be subjected to light, temperature, moisture or dust.
- Do not affix the label outside of the specified area on the MD. Make sure the label is placed within the recessed space on the disc.

On the headphones/earphones

Road safety

- Do not use headphones/earphones while driving, cycling, or operating any motorized vehicle. This may lead to a traffic accident and is illegal in many areas. It can also be potentially dangerous to play your player at high volumes while walking, especially at pedestrian crossings. You should exercise extreme caution or discontinue using the player in potentially hazardous situations.
- If you experience an allergic reaction to the supplied headphones/earphones, stop using them at once and consult a doctor or a Sony service center.

Preventing hearing damage

Avoid using headphones/earphones at high volumes. Hearing experts advise against continuous, loud and extended play. If you experience a ringing in your ears, reduce the volume or discontinue use.

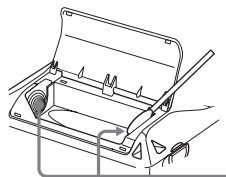
Caring for others

Keep the volume at a moderate level. This will allow you to hear outside sounds and to be considerate of the people around you.

On cleaning

- After wiping the player casing with a soft cloth slightly moistened with water, wipe it again with a dry cloth. Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzene as this may mar the finish on the casing.
- Wipe the disc cartridge with a dry cloth to remove dirt.
- Dust on the lens may prevent the unit from operating properly. Be sure to close the disc compartment lid after inserting or ejecting an MD.
- To maintain good sound quality, use a soft cloth to clean the plugs of the headphones/earphones. A dirty plug may cause noise or intermittent breaks in the sound during playback.
- Clean the terminals periodically with a cotton swab or a soft cloth as illustrated.

Dry battery compartment



Terminals

When recording with the supplied application software

Before you remove the MD after the transfer of audio data from your computer has completed

Make sure that "TOC Edit" has disappeared in the display, and then press the ■ (stop) button.

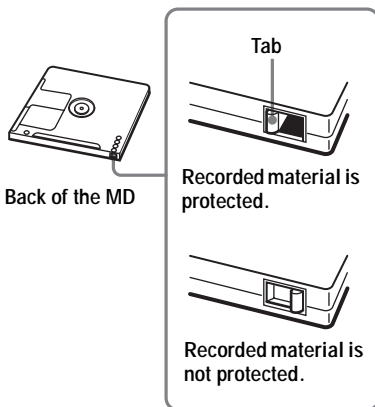
If the power source (battery) accidentally becomes disconnected during recording

The lid may refuse to open. If this happens, do not open the lid by force. Do the steps below instead.

- 1 Connect the power source (battery) firmly to the player.
- 2 Press the OPEN button to open the lid.

To protect a recorded MD

To record-protect an MD, slide open the tab at the side of the MD. In this position, the MD cannot be recorded. To record again, slide the tab back so the tab is visible.



If you have any questions or problems concerning your player, please consult your nearest Sony dealer. (If a trouble occurred when the disc was in the player, we recommend that the disc be left in the player when you consult your Sony dealer so that the cause of trouble may be better understood.)

When consulting your Sony dealer, be sure to bring the player and the headphones/earphones.

Specifications

MD Player

Audio playing system

MiniDisc digital audio system

Laser diode properties

Material: GaAlAs

Wavelength: $\lambda = 790 \text{ nm}$

Emission duration: continuous

Laser output: less than 44.6 μW

(This output is the value measured at a distance of 200 mm from the objective lens surface on the optical pick-up block with 7 mm aperture.)

Recording and playback time (when using MDW-80)

Maximum 160 min. in monaural

Maximum 320 min. in LP4 stereo

Revolutions

Approx. 380 rpm to 2,700 rpm

Error correction

ACIRC (Advanced Cross Interleave Reed

Solomon Code)

Sampling frequency

44.1 kHz

Coding

ATRAC (Adaptive TRansform Acoustic Coding)

ATRAC3 — LP2/LP4

Modulation system

EFM (Eight to Fourteen Modulation)

Number of channels

2 stereo channels

1 monaural channel

Frequency response

20 to 20,000 Hz $\pm 3 \text{ dB}$

Outputs

⦿: stereo mini-jack, maximum output level

5 mW + 5 mW, load impedance 24 Ω (USA)

5 mW + 5 mW, load impedance 16 Ω (Canada)

Radio

Frequency range

USA model:

FM: 87.5 - 108.0 MHz

TV: 2 - 13 CH

WEATHER: 1 - 7 CH

Canadian model:

FM: 87.5 - 108.0 MHz

Antenna

FM/TV/WEATHER:

Headphones/earphones cord antenna

General

Power requirements

One LR6 (size AA) alkaline battery (not supplied)

Recommended temperature for check-in/check-out

+5 °C (+41°F) or higher

Battery operation time

See "Battery life" (page 16)

Dimensions

Approx. 81 × 30.7 × 74.4 mm (w/h/d) (3¹/₄ × 1¹/₄ × 3 in.) without projections.

Mass

Approx. 115 g (4.1 oz) the player only

US and foreign patents licensed from Dolby Laboratories.

Design and specifications are subject to change without notice.

Optional accessories

MDR series stereo Headphones/earphones*

SRS series Active Speakers

* When using optional headphones, use only headphones/earphones with stereo mini plugs. You cannot use headphones/earphones with micro plugs.

Your dealer may not handle some of the above listed accessories. Please ask the dealer for detailed information about the accessories in your country.



Troubles and solutions

If you find any troubles operating the player, follow the steps below.

- 1 Check this section, “Troubles and solutions”.
- 2 If you cannot solve the problem after you made checks, consult your nearest Sony dealer.

While playing

Symptom	Cause/Remedy
An MD is not played normally.	<ul style="list-style-type: none">• Repeat play is selected. ➔ Use MENU on the player to change back to the normal play (page 30).• Playback mode is changed. ➔ Use MENU on the player to change back to the normal play (page 30).
An MD is not played from the first track.	<ul style="list-style-type: none">• Disc playing stopped before it came to the last track. ➔ Press ► for 2 seconds or more to start playing.• Group play mode is selected. ➔ Use MENU on the player to change back to the normal play (page 30), and then press ► for 2 seconds or more to start playing.
The digital sound preset function does not work.	<ul style="list-style-type: none">• The digital sound preset is off. ➔ Select “SOUND1” or “SOUND2” (page 23).
Playback sound skips.	<ul style="list-style-type: none">• The player is placed where it receives continuous vibration. ➔ Put the player on a stable place.• A very short track may cause sound to skip. ➔ Try not to create a track under one second long.
Sound has a lot of static.	<ul style="list-style-type: none">• Strong magnetism from a television or such device is interfering with operation. ➔ Move the player away from the source of strong magnetism.
Noise is momentarily heard.	<ul style="list-style-type: none">• The sound was recorded in LP4 stereo mode. ➔ Because of the nature of the compression method used in LP4 mode, noise may be output on very rare occasions during playback of sound recorded in this mode.
Volume cannot be turned up.	<ul style="list-style-type: none">• AVLS is on. ➔ Release AVLS settings (page 32).

Symptom	Cause/Remedy
No sound comes through the headphones/earphones.	<ul style="list-style-type: none"> • The headphones/earphones plug is not firmly connected. ➔ Plug in the plug of the headphones/earphones firmly to . • Volume is too low. ➔ Adjust the volume by pressing VOL + or -. • The plug is dirty. ➔ Clean the plug.
The player skips to several tracks ahead or behind when you press ⏮ or ⏭ .	<ul style="list-style-type: none"> • The GROUP button has been pressed ( is flashing in the display). ➔ The player returns to normal if no operation has made for 5 seconds.
The edited tracks may exhibit sound dropout during search operations.	<ul style="list-style-type: none"> • This occurs due to the MiniDisc system limitation. The fragmentation of data may cause sound dropout while searching because the tracks are played in higher speed than normal playback.

While using group function

Symptom	Cause/Remedy
The group function does not operate.	<ul style="list-style-type: none"> • While using a disc with no group setting, an attempt was made to select some group-related menu (“No Gp” appears in the display). ➔ Use a disc with group setting.
A track cannot be transferred to a new group. A new group cannot be created on the supplied SonicStage software.	<ul style="list-style-type: none"> • This is due to the MiniDisc system limitations. Group information has been written to the area where the disc name is stored. The disc name and track names are recorded in the same area, which can store a maximum of approximately 1,700 characters. If the total number exceeds this amount, a new group cannot be created even though group mode is on. It is also impossible to make group settings at this time.

While using the radio

Symptom	Cause/Remedy
The radio does not operate.	<ul style="list-style-type: none"> • The supplied remote control is connected to other unit than this player. The supplied remote control should be used with this player only. • After confirming that “NO DISC” has disappeared from the display on the remote control, press RADIO ON/OFF again on the remote control.

Symptom	Cause/Remedy
□ flashes in the display on the remote control and the radio does not operate.	<ul style="list-style-type: none"> The alkaline dry battery is used up. <ul style="list-style-type: none"> Replace the battery with new LR6 (size AA) alkaline dry battery (page 16).

Others

Symptom	Cause/Remedy
The player does not work or works poorly.	<ul style="list-style-type: none"> The volume is low. <ul style="list-style-type: none"> Turn up the volume. No disc is inserted (“NoDISC” appears in the display). <ul style="list-style-type: none"> Insert a recorded disc. The HOLD function is turned on (“HOLD” appears in the display when you press an operation button on the player). <ul style="list-style-type: none"> Disable HOLD by sliding the HOLD switch to the opposite direction of the arrow. The lid is not firmly closed. <ul style="list-style-type: none"> Close the lid until it clicks. Moisture has condensed inside the player. <ul style="list-style-type: none"> Take the MD out and leave the player in a warm place for several hours until the moisture evaporates. The dry battery is weak (“LoBATT” flashes or nothing appears). <ul style="list-style-type: none"> Replace the dry battery with a new one. The dry battery have been inserted incorrectly. <ul style="list-style-type: none"> Insert the battery correctly. An MD with nothing recorded on is inserted (“BLANK” appears in the display). <ul style="list-style-type: none"> Insert a recorded MD. The disc is damaged or does not contain proper recording (“Rd ERR” appears in the display). <ul style="list-style-type: none"> Reinsert the disc. If the error message still appears, replace it with another disc. While operating, the player received a mechanical shock, too much static, abnormal power voltage caused by lightning, etc. Restart the operation as follows. <ol style="list-style-type: none"> Remove the dry battery from the player. Leave the player for about 30 seconds. Insert the dry battery.
The player will not play.	<ul style="list-style-type: none"> A Hi-MD disc or a standard disc in Hi-MD mode is inserted. <ul style="list-style-type: none"> Hi-MD discs or standard discs in Hi-MD mode cannot be played on this player.

Explanations

About the DSP TYPE-S for ATRAC/ATRAC3

This player supports playback with the DSP TYPE-S specification for high-level Sony MiniDisc decks equipped with digital signal processors (DSP). This specification allows tracks recorded in MDLP mode to be played back with high quality sound. Since this player also supports DSP TYPE-R specification, superb sound is produced during playback in SP (normal stereo) mode as well.

Suppressing the skips of the sound (G-PROTECTION)

The G-PROTECTION function was developed to provide a higher level of shock resistance than that of existing players.

What you can do with MD Simple Burner/SonicStage

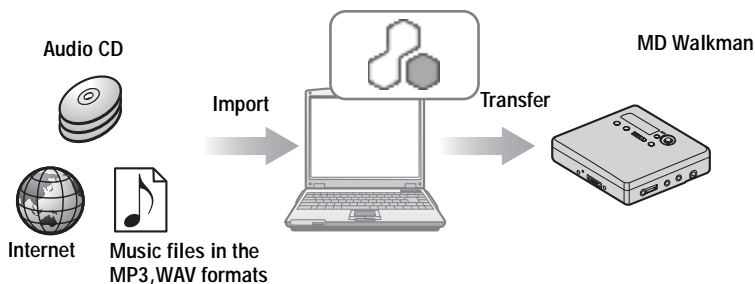
What you can do with MD Simple Burner

MD Simple Burner allows you to record music tracks from an audio CD in the CD drive of your computer to an MD Walkman, without first recording the music tracks to the computer.



What you can do with SonicStage

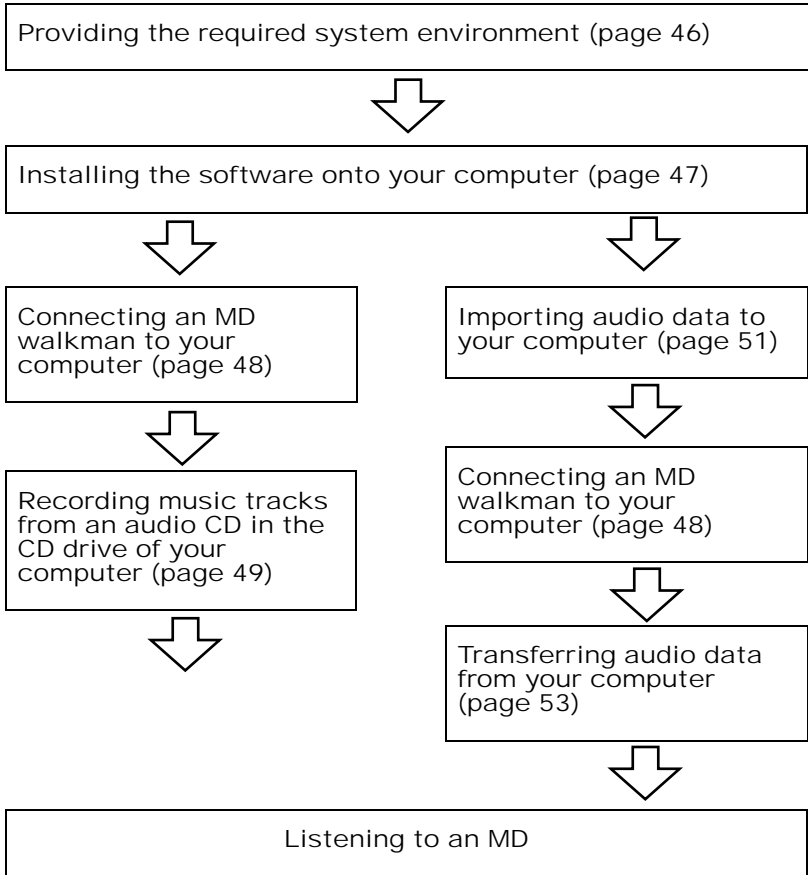
SonicStage allows you to import audio data to your computer from music sources such as audio CDs and the Internet, and then transfer the audio data stored in your computer to an MD.



Basic operational flow using an MD Walkman

● MD Simple Burner

● SonicStage



Providing the required system environment

System requirements

The following system environment is required in order to use the SonicStage Ver. 2.0/MD Simple Burner Ver. 2.0 software for the MD Walkman.

Computer	IBM PC/AT or Compatible
	<ul style="list-style-type: none">• CPU: Pentium II 400 MHz or higher (Pentium III 450 MHz or higher is recommended.)• Hard disk drive space: 200 MB or more (1.5 GB or more is recommended) (The amount space will vary according to Windows version and the number of music files stored on the hard disk.)• RAM: 64 MB or more (128 MB or more is recommended)
	Others <ul style="list-style-type: none">• CD drive (capable of digital playback by WDM)• Sound Board• USB port (supports USB (previously USB 1.1))
Operating System	Factory installed: Windows XP Media Center Edition 2004/Windows XP Media Center Edition/Windows XP Professional/Windows XP Home Edition/ Windows 2000 Professional/Windows Millennium Edition/Windows 98 Second Edition
Display	High Color (16bit) or higher, 800 × 600 dots or better (1024× 768 dots or better is recommended)
Others	<ul style="list-style-type: none">• Internet access: for Web registration, EMD services and CDDB• Windows Media Player (version 7.0 or higher) installed for playing WMA files

This software is not supported by the following environments:

- OSs other than the indicated above
- Personally constructed PCs or operating systems
- An environment that is an upgrade of the original manufacturer-installed operating system
- Multi-boot environment
- Multi-monitor environment
- Macintosh

Notes

- We do not ensure trouble-free operation on all computers that satisfy the system requirements.
- The NTFS format of Windows XP/Windows 2000 Professional can be used only with the standard (factory) settings.
- We do not ensure trouble-free operation of the system suspend, sleep, or hibernation function on all computers.
- For Windows 2000 Professional users, install Service Pack 3 or later version before using the software.

Installing the software onto your computer

Before installing the software

- Make sure to close any virus-check software, as such software usually demands a large amount of system resources.
- Even if OpenMG Jukebox, SonicStage, SonicStage Premium, SonicStage Simple Burner, or Net MD Simple Burner has been previously installed, install the software with the supplied CD-ROM. The existing software may be overwritten by the new version or it may co-exist with SonicStage depending on the version of your software. Follow the instructions that appear in the window for the installation.

You will still be able to use music data registered by a previous software version even if the previous version has been overwritten by or co-exists with new SonicStage Ver. 2.0. As a precaution, we recommend that you back up your music data. To back up the data, refer to [Backing Up My Library] – [Backing Up Data to a Disk] on SonicStage Help.

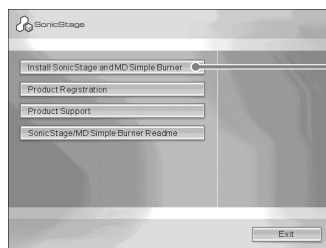
1 Turn on your computer and start up Windows.

2 Insert the supplied CD-ROM into the CD drive of your computer.

The setup program starts up automatically and the installation window appears.

Depending on the region, a window may appear asking you to select your country. In this case, follow the displayed instructions.

3 Click [Install SonicStage and MD Simple Burner] and then follow the displayed instructions.



Click [Install SonicStage and MD Simple Burner]

Read the instructions carefully.

Depending on your region, the buttons other than [Install SonicStage and MD Simple Burner] may differ from those in the illustration above.

The installation may take 20 to 30 minutes, depending on your system environment. Make sure to restart your computer only after the installation is completed.

Was the installation successful?

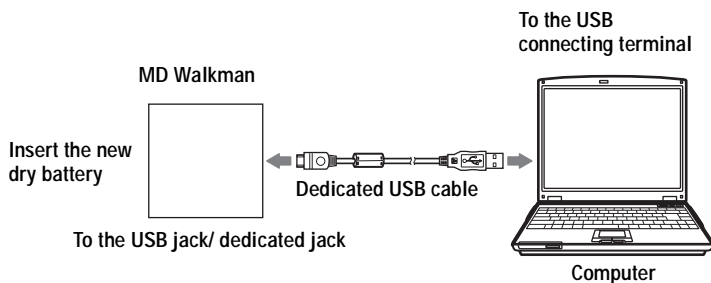
If any trouble occurs during the installation, see “Troubleshooting” (page 63).

Connecting the MD Walkman to your computer

After the software installation is completed, connect the MD Walkman to your computer.

- 1 Insert a recordable disc into the MD Walkman.

- 2 Insert the new dry battery into the MD Walkman, and connect the MD Walkman to the computer using the supplied dedicated USB cable.



-
- 3 Check the connections.
When the connections have been properly made, "PC→MD"* appears in the display of the MD Walkman.

* Depending on the MD Walkman, "Net MD" may be displayed.

Note

When using the MD Walkman connected to your computer, it is recommended that you use a new dry cell battery. We do not assure the results should there be a mis-operation, transferring failure, or destruction of audio data caused by insufficient battery power.

Recording by computer operations



MD Simple Burner allows you to record music tracks from an audio CD in the CD drive of your personal computer to the MD Walkman.

To start MD Simple Burner, click [Start] – [All Programs]* – [MD Simple Burner] – [MD Simple Burner].


* [Programs] in the case of Windows 2000 Professional/Windows Millennium Edition/Windows 98 Second Edition



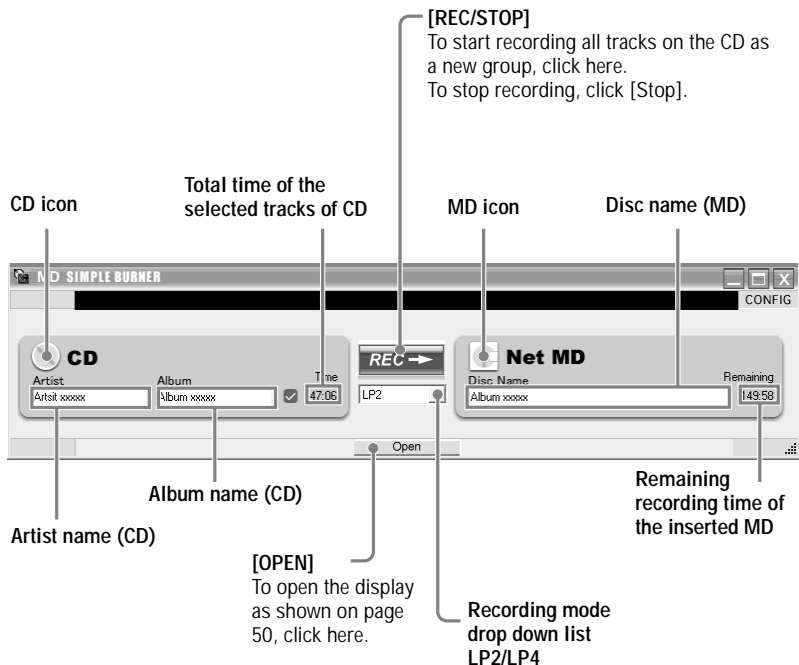
There are other ways to start up MD Simple Burner as follows:

- Double-click the  MD Simple Burner icon in the task tray, or right-click and select [Show Standard Mode].
- Double-click the  MD Simple Burner shortcut icon on the desktop.

Notes

- Only audio CDs with a  mark can be used with MD Simple Burner.
- We do not guarantee normal operation in the case of the copy-controlled CDs.

The window for recording all tracks on the CD



The window for recording selected tracks from an audio CD

Track information
(CD)

[CONFIG]

Click here to do the following:

- Set the CD-ROM drive
- View version information for MD Simple Burner
- Confirm CD information registered in the CDDB

Artist name

Total time of the
selected tracks of CD

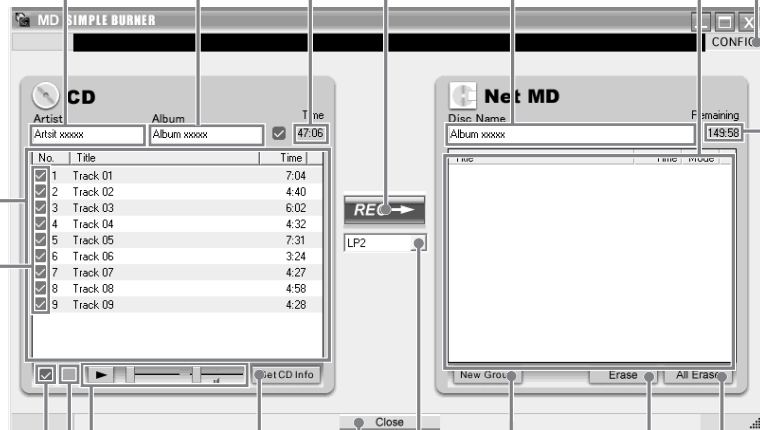
Track information (MD)

You can change the
track name and track
number

Album Title

[REC/
STOP]

Disc name
(MD)



[Get CD info]

Information of an audio CD
(album name, track title,
etc.) will be reflected in the
track list.

[New Group]

Recording mode
drop down list

[CLOSE]

To close the display as shown
on page 49, click here.

CD operating section

Use these controls to confirm the tracks on audio CD to
be recorded

To deselect all tracks, click here.

To select all tracks, click here.

[Erase]

[All Erase]

Check boxes

Check the box of the tracks
that you want to record


Remaining time of the inserted MD

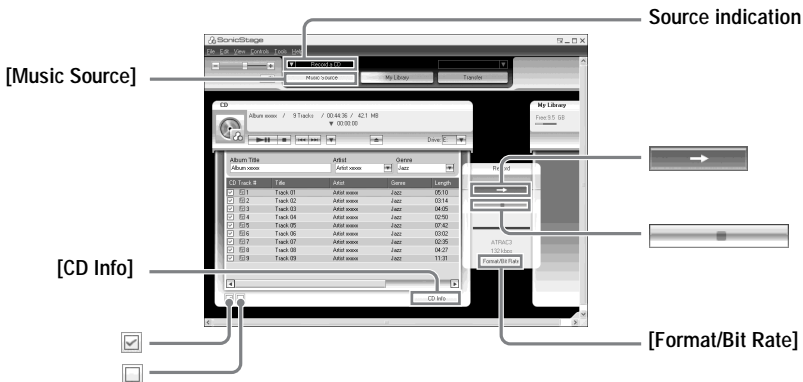
Importing audio data

This section explains how to record and store audio data from an audio CD to My Library of SonicStage on the hard disk drive of your computer.

You can record or import music from other sources such as the Internet and your computer's hard disk. Refer to SonicStage Help for details.

Notes

- Only audio CDs with a  mark can be used with SonicStage.
- We do not guarantee normal operation in the case of the copy-controlled CDs.




1 Start up SonicStage.

Select [Start] – [All Programs]* – [SonicStage] – [SonicStage].

* [Programs] in the case of Windows 2000 Professional/Windows Millennium Edition/Windows 98 Second Edition

SonicStage starts up and the main window appears.



You can also start SonicStage with double click  ([SonicStage] icon) on the desktop.

2 Insert the audio CD that you want to record into the CD drive of your computer.

The source indication in the top-left of the display changes to [Record a CD].

3 Click [Music Source].

The contents of the audio CD appear in the music source list (on the left side of the screen).

continued

4 If necessary, click to uncheck tracks you do not want to record.

If you unchecked a box by mistake, click it again to restore the check.

To check all boxes, click .

To uncheck all boxes, click .

5 If necessary, change the format and bit rate for recording the audio CD.

When you click [Format/Bit Rate] on the right side of the screen, "CD Recording Format [My library]" dialog box will appear. The dialog box will ask you to select the format and bit rate for recording the audio CD.

6 Click .

The recording of the tracks selected in step 4 starts.

To stop recording

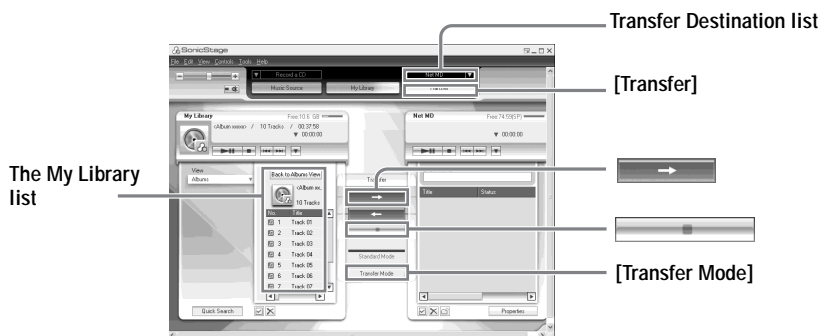
Click .



If CD information such as album title, artist name, and track names could not be obtained automatically, click [CD Info] on the right side of the screen. When you do this, your computer must be connected to the Internet.

Transferring audio data from your computer to the MD Walkman

Audio data stored in My Library of SonicStage can be transferred to your MD Walkman an infinite number of times.



1 Connect your MD Walkman to the computer.

After making the connections, “Net MD” is displayed in the Transfer Destination list in the upper right of the screen.

For details about connections, see “Connecting the MD Walkman to your computer” (page 48).

Do not disconnect the power source or the dedicated USB cable before the transfer has completed.

2 Click [Transfer].

The screen is switched to the Transfer (Net MD) screen.

3 Click the tracks you want to transfer in the My Library list on the left side of the screen.

To transfer more than one track, hold down the [Ctrl] key while selecting the tracks. To transfer all tracks of the album, click the album.

4 Change the transfer mode, if necessary.

Click [Transfer Mode] in the middle of the screen to display the “Transfer Mode Settings” dialog box (for Net MD) and select the transfer mode.

continued

5 Click  .

Transfer of the tracks selected in step 3 begins.

To stop transferring

Click  .

Notes

- A transfer will fail and an error message will appear in the following cases:
 - When there is no enough free space on the disc.
 - When the track is subject to playback restrictions.
- During the transfer, the system suspend, sleep, or hibernation function will not operate.
- Depending on the type of the text and number of characters, the text entered by SonicStage may not be displayed on the connected MD Walkman. This is due to the limitations of the connected MD Walkman.
- When using your MD Walkman connected to the computer, be sure to use a new battery. We do not assure the results should there be a mis-operation, transferring failure, or destruction of audio data caused by insufficient battery power.

Transferring back audio data from the MD Walkman to your computer




Transferring from the MD Walkman back to your computer

Audio data that has been transferred from your computer and stored on the MD can be transferred back to My Library of SonicStage on your computer.

- 1** Connect your MD Walkman to the computer.
After making the connections, “Net MD” is displayed in the Transfer Destination list in the upper right of the screen.
For details about connections, see “Connecting the MD Walkman to your computer” (page 48).
Do not disconnect the power source or the dedicated USB cable before the transfer has completed.
- 2** Click [Transfer].
The screen is switched to the Transfer (Net MD) screen.
- 3** In the Net MD list on the right side of the screen, click to select the tracks you want to transfer to your computer.

continued

-
- 4 Click  in the middle of the screen.
The transferring of the tracks selected in step 3 starts.
-

To stop transferring

Click  .

Note

Tracks transferred to the MD Walkman from another computer cannot be transferred back to My Library on your computer.

Using SonicStage Help

SonicStage Help provides further details on how to use SonicStage. SonicStage Help allows you to search easily for information from a list of operations, such as “Importing audio data” or “Transferring audio data”, or from large list of keywords, or by typing in words that might lead you to the appropriate explanations.

To display SonicStage Help

Click [Help] – [SonicStage Help] while SonicStage is running.



You can display SonicStage Help by selecting the following:
[Start] – [All Programs]* – [SonicStage] – [SonicStage Help].

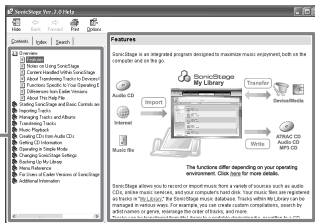
* [Programs] in the case of Windows 2000 Professional/Windows Millennium Edition/Windows 98 Second Edition

Notes

- In SonicStage Help, “Device/Media” is the general term for the external device such as the MD Walkman, the Network Walkman, and the CD Walkman.
- Follow the instructions of your internet provider regarding such things as recommended system.

Understanding SonicStage Help

The left side frame



The right side frame

- 1 Double click [Overview] in the left-side frame.
- 2 Click [About This Help File].
The explanation will appear in the right-side frame.
- 3 Read the text.
Scroll the display if necessary.
Click underlined words to jump to their explanations.

Searching for a word inside an explanation

The screenshot shows the SonicStage Help application with two additional windows open. The 'Search' window is in the foreground, containing a search input field and a list of search results. The 'List Topics' window is open below it, showing a list of search results. The 'Display' window is open to the right, showing the detailed explanation for the selected search result.

[Search]

"Type in the keyword to find" text box

List Topics

The list of the words that you searched

An explanations of the selected item

[Display]

- 1 Click [Search] to open the "Search" window.
- 2 Type in the words.
- 3 Click [List Topics].
A list of the words that were searched is displayed.
- 4 Click to select the desired item among those displayed.
- 5 Click [Display].
An explanation of the selected item is displayed.

Referring to SonicStage Help

Click [Contents] on the left side of the Help window to view a list of items for each operation. Click on any items for details.

Importing audio data to the computer

To	SonicStage Help
Import audio data from the Internet	[Importing tracks] – [Purchasing Tracks from a Music Service Site]
Import audio files on the computer in SonicStage	[Importing tracks] – [Importing Music Files]

Listening to audio data on the computer

To	SonicStage Help
Listen to audio data from the CD drive or My Library	[Music Playback] – [Playing Back an Audio CD] or [Playing Back a Track in My Library]
Listen to audio data on the MD Walkman connected to the computer	[Music Playback] – [Playing Back a Track on a Device/Media]

Managing and editing imported tracks

To	SonicStage Help
Change information related to CD information downloading	[Changing SonicStage Settings] – [Changing Settings for Getting CD information]
Edit an album Delete the tracks	[Managing Tracks and Albums] – [Creating/Editing Albums]
Change the destination directly for track storage	[Changing SonicStage Settings] – [Changing the Location for Saving Recorded Files]

Backing up audio data

We recommend that you back up your music data as a precaution against hard disk crashes or computer replacement.

To	SonicStage Help
Back up audio data in My Library	[Backing Up My Library] – [Backing Up Data to a Disk]
Look up about SonicStage backup	[Backing Up My Library] – [FAQ-About SonicStage Backup Tool]

Troubleshooting

To	SonicStage Help
Look up troubleshooting procedure	[Additional Information] – [Troubleshooting]

When you want to know

To	SonicStage Help
Look up unknown words	[Additional Information] – [Glossary]
Look up the kinds of audio data that can be managed by SonicStage	[Overview] – [Content Handled Within SonicStage]
Look up the kinds of functions that can be used with SonicStage	[Overview] – [Features]

Uninstalling SonicStage/MD Simple Burner

To uninstall SonicStage/MD Simple Burner, follow the procedures below.

1 Click [Start]–[Control Panel]*.

* [Settings]–[Control Panel] in the case of Windows 2000 Professional/Windows Millennium Edition/Windows 98 Second Edition

2 Double-click [Add/Remove Programs].

3 Click [SonicStage 2.0.xx] or [MD Simple Burner 2.0.xx] in the “Currently Installed Programs” list, and then click [Change and Remove]*.

Follow the displayed instruction and restart your computer. The uninstallation is completed when the computer has restarted.

* [Change/Remove] in the case of Windows 2000 Professional, [Add/Remove] in the case of Windows Millennium Edition/Windows 98 Second Edition

Note

When you install SonicStage Ver. 2.0/MD Simple Burner Ver. 2.0, OpenMG Secure Module 3.4 is installed at the same time. Do not delete OpenMG Secure Module 3.4 since it may be used by other software.

On copyright protection

The OpenMG technology allows you to enjoy digital music, while maintaining the copyrights of its holders. SonicStage encrypts audio files in OpenMG format and stores them on the hard disk of your computer to prevent unauthorized distribution.

Restrictions on audio content

High-quality digital audio content is widely available through music distribution services on the Internet. To protect the copyrights of its holders from unauthorized distribution, some audio content is distributed with certain restrictions on recording and playback. For example, the playback period or playback count for the data may be limited.

Troubleshooting

Please refer to the following steps if you encounter a problem while using SonicStage/MD Simple Burner.

- 1 Check the symptoms in this “Troubleshooting” section.
- 2 Check the symptoms in SonicStage Help when you use SonicStage.
- 3 If the problem cannot be solved after checking the above references.
Check the following table and then consult your nearest Sony dealer.

Computer <ul style="list-style-type: none">• Manufacturer:• Model:• Type: Desktop type / Laptop type
Name of operating system:
RAM capacity:
Hard disk drive (containing SonicStage/MD Simple Burner and audio data) <ul style="list-style-type: none">• Capacity of the drive:• Free space:
Version of the software <ul style="list-style-type: none">• SonicStage Ver. 2.0¹⁾• MD Simple Burner Ver. 2.0²⁾
Error Message (if one appear):
If an externally connected CD-ROM drive is used <ul style="list-style-type: none">• Manufacturer:• Model:• Type: CD-ROM / CD-R/RW / DVD-ROM / Other ()• Type of connection to the computer: PC card / USB / IEEE1394 / Other ()
If another device with USB connection is used <ul style="list-style-type: none">• Name of the device (or devices):

¹⁾ To check the SonicStage software version, go to [Help] – [About SonicStage] in the SonicStage window.

²⁾ To check the MD Simple Burner software version, go to [CONFIG] – [Version] in the MD Simple Burner window.

The software cannot be installed onto your computer

Problem	Cause/Remedy
The installation was not successful.	You are using an OS that does not support this software. → See page 46 for more details. All windows applications are not closed. → If you start the installation while other programs are running, a malfunction may occur. This is especially true for programs that require large amounts of system resources, such as virus-check software. There is not enough hard disk space on your hard disk. → You need 200MB or more free space on your hard disk.
The installation appears to have stopped before it has completed.	Check for the appearance of an error message beneath the installation window. → Press the [Tab] key while holding down the [Alt] key. If an error message has appeared, press the [Enter] key. The installation will resume. If there is no message, the installation is still in progress. Wait a little while longer.
The progress bar on the display is not moving. The access lamp has not lit for a few minutes.	The installation is progressing normally. Please wait. The installation may take 30 minutes or more, depending on your CD drive or system environment.

Using a MD Walkman connected to the computer

Problem	Cause/Remedy
Your computer does not recognize the MD Walkman.	The MD Walkman is not firmly connected with the supplied dedicated USB cable to the computer. →Reconnect the MD Walkman to the computer firmly. A disc is not inserted in the MD Walkman. →Check if a disc is inserted in the MD Walkman. The Net MD driver is not be installed. →Install the SonicStage/MD Simple Burner software using the supplied CD-ROM.
Even though the dedicated USB cable is used to connect the MD Walkman to the computer, the display on the MD Walkman does not indicate it is connected.	It takes time to recognize SonicStage. Please wait. The other application software is running. →Reconnect the supplied dedicated USB cable after a while. If the computer still does not recognize the MD Walkman, disconnect the MD Walkman, restart the computer, and connect the dedicated USB cable again.
The progress bar on the display is not moving. The access lamp has not lit for a few minutes.	The supplied dedicated USB cable is disconnected. →Connect the supplied dedicated USB cable firmly. The connections are made through a USB hub. →Operations are not guaranteed for USB-hub connections. Connect the MD Walkman directly to the USB connector on the computer.

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WMA 46

This warranty is valid only in Canada.

SONY[®]

Portable Memory Stick Audio Player
Portable IC Audio Player
Portable MiniDisc Recorder

LIMITED WARRANTY

Sony of Canada ("Sony") warrants this Product (including any accessories) against defects in material or workmanship as follows:

- 1. LABOUR:** For a period of 90 days from the date of purchase, if this Product is determined to be defective, Sony will repair or replace the Product, at its option, at no charge, or pay the labour charges to any Sony authorized service facility. After the Warranty Period, you must pay for all labour charges.
- 2. PARTS:** In addition, Sony will supply, at no charge, new or rebuilt replacements in exchange for defective parts for a period of one (1) year. After 90 days from the date of purchase, labour for removal and installation is available from Sony authorized service facilities or a Sony Service Centre at your expense.

You can extend the warranty period for an additional nine months by registering your product (www.sonymstyle.ca). Once you register your product, the limited warranty period is twelve months from the original date of purchase from Sony or a Sony authorized dealer. The ninety (90) day warranty period is extend-able only to the original purchaser, for an additional period of nine (9) months, for a total of twelve (12) months from the date of purchase when the Product is registered electronically. After the applicable period you must pay for all parts and labour charges.

To obtain warranty service, you must take the Product, or deliver the Product freight prepaid, in either its original packaging or packaging affording an equal degree of protection, to any authorized Sony service facility.

This warranty does not cover customer instruction, installation, set up adjustments or signal reception problems.

This warranty does not cover cosmetic damage or damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or modification of, or to any part of the Product, including the antenna. This warranty does not cover damage due to improper operation or maintenance, connection to improper voltage supply, or attempted repair by anyone other than a facility authorized by Sony to service the Product. This warranty does not cover Products sold AS IS or WITH ALL FAULTS, or consumables (such as fuses or batteries). This warranty is valid only in Canada.

Proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the unit is within the Warranty period must be presented to obtain warranty service.

This warranty is invalid if the factory-applied serial number has been altered or removed from the Product.

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1 (877) 770-7669

or write to:

Sony of Canada Ltd.

115 Gordon Baker Road, Toronto, Ontario M2H 3R6 CANADA

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www.sonymstyle.ca/productregistration

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1. **LABOR:** For a period of 90 days from the date of purchase, if this Product is determined to be defective, Sony will repair or replace the Product, at its option, at no charge, or pay the labor charges to any Sony authorized service facility. After the Warranty Period, you must pay for all labor charges.

2. **PARTS:** In addition, Sony will supply, at no charge, new or rebuilt replacements in exchange for defective parts for a period of one (1) year. After 90 days from the date of purchase, labor for removal and installation is available from Sony authorized service facilities or a Sony Service Center at your expense.

To obtain warranty service, you must take the Product, or deliver the Product freight prepaid, in either its original packaging or packaging affording an equal degree of protection, to any authorized Sony service facility.

This warranty does not cover customer instruction, installation, set up adjustments or signal reception problems.

This warranty does not cover cosmetic damage or damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or modification of, or to any part of the Product, including the antenna. This warranty does not cover damage due to improper operation or maintenance, connection to improper voltage supply, or attempted repair by anyone other than a facility authorized by Sony to service the Product. This warranty does not cover Products sold AS IS or WITH ALL FAULTS, or consumables (such as fuses or batteries). This warranty is valid only in the United States.

Proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the unit is within the Warranty period must be presented to obtain warranty service.

This warranty is invalid if the factory applied serial number has been altered or removed from the Product.

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