

# *Compact Hi-Fi Component System*

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Operating Instructions



***CHC-CL5MD***

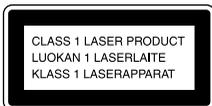
**To prevent fire or shock hazard, do not expose the unit to rain or moisture.**

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

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.

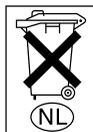
To prevent fire or shock hazard, do not place vases on the apparatus.

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



This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

The following caution label is located inside the unit.



Don't throw a battery, dispose it as the injurious wastes.

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.

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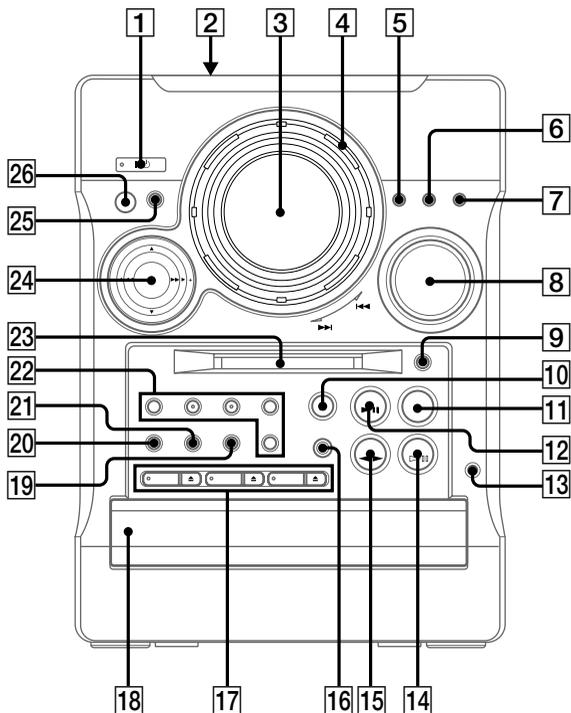
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\* European model only

The items are arranged in alphabetical order. Refer to the pages indicated in parentheses for details.

## Main unit



- BASS/TREBLE **24** (40)
- CD 1 - 3 **17** (11)
- CD 1 - 3 ▲ **17** (9)
- CD disc tray **18** (9)
- CD ►|| **12** (9)
- DIMMER **5** (7)
- DISPLAY **25** (8, 12, 16)
- Display window **3**
- ENTER/START **22** (17, 38)
- ENTER/YES **7** (8, 11, 15, 20, 25, 34, 42)
- FUNCTION **16** (9, 14, 17, 25, 37)
- GROOVE **20** (40)
- MD insertion slot **23** (14)
- MD REC **22** (19)
- MD ►|| **14** (14)
- MENU/NO **6** (24)
- MUSIC MENU **24** (41)

- PHONES jack **13**
- PLAY MODE/DIRECTION **21** (9, 14, 17, 37)
- REC MODE **22** (20)
- Remote sensor **26**
- REPEAT **19** (10, 14)
- STEREO/MONO **19** (35)
- SYNCHRO MODE **22** (17)
- Tape deck lid **2** (37)
- TAPE REC PAUSE/START **22** (39)
- TAPE ◀▶ **15** (37)
- TUNER/BAND **11** (34)
- VOLUME **8**

**BUTTON DESCRIPTIONS**

I/⏻ **1**

◀◀/▶▶ **4**

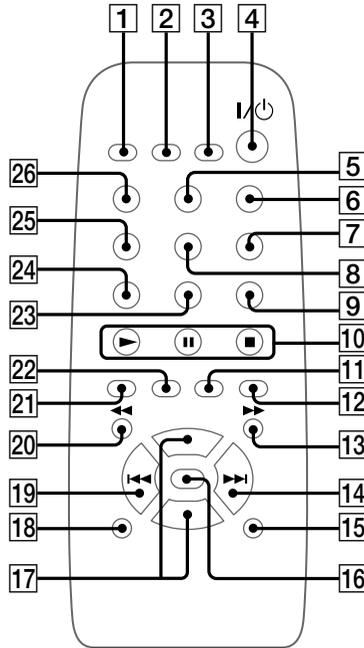
▲ **9**

▼ **10**

◀◀/▶▶ **24**

+/- **24**

# Remote Control



- CHECK **[8]** (11, 15)
- CLEAR **[12]** (11, 15)
- CLOCK/TIMER SELECT **[2]**  
(42)
- CLOCK/TIMER SET **[3]**  
(8, 42)
- DBFB **[26]** (40)
- DIMMER **[23]** (7)
- DISC SKIP **[9]** (10)
- DISPLAY **[18]** (8, 12, 16)
- ENTER/YES **[11]** (8, 11, 15, 20,  
25, 34, 42)
- FUNCTION **[15]** (9, 14, 17, 25, 37)
- GROOVE **[16]** (40)
- MENU/NO **[21]** (24)
- MUSIC MENU **[6]** (41)

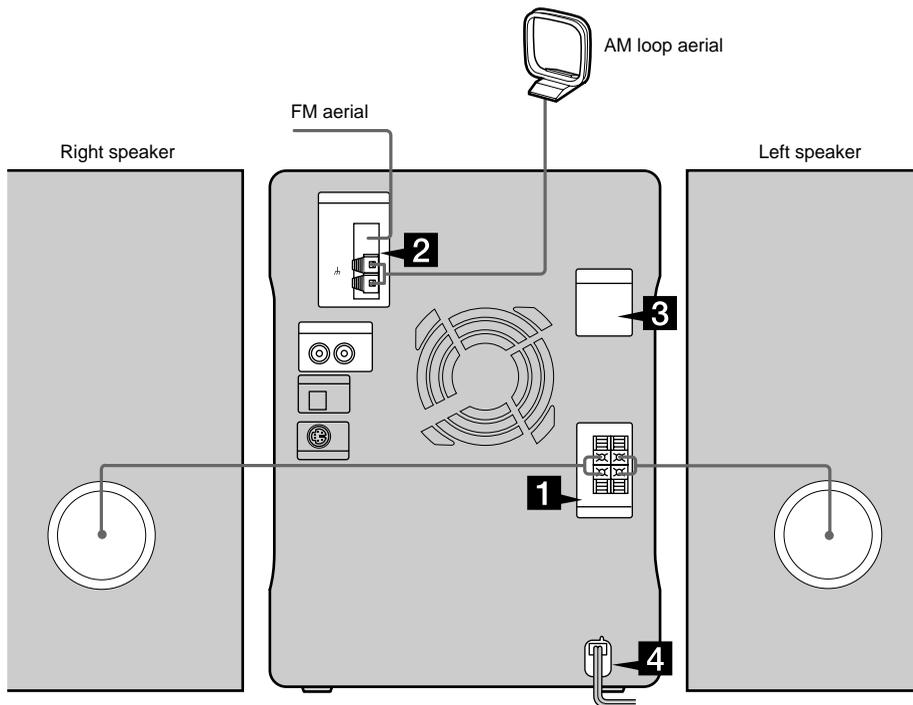
- NAME EDIT/CHARACTER **[22]**  
(12, 25, 36)
- REPEAT **[7]** (10, 14)
- SCROLL **[25]** (13, 26)
- SLEEP **[1]** (41)
- SURROUND **[5]** (40)
- TUNER/BAND **[24]** (34)
- VOL +/- **[17]**

## BUTTON DESCRIPTIONS

- [4]** I/⏻
- [10]** ▶▶▶
- [10]** ■
- [10]** ◀◀◀
- [13]** ▶▶▶
- [14]** ▶▶▶
- [19]** ▶▶▶
- [20]** ▶▶▶

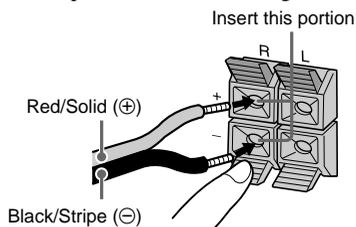
## Hooking up the system

Perform the following procedure **1** to **4** to hook up your system using the supplied cords and accessories.



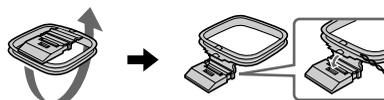
### 1 Connect the speakers.

Connect the speaker cords to the SPEAKER terminals on the unit and to the terminals on the speakers as the following.

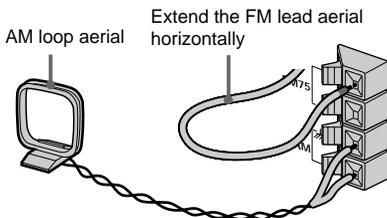


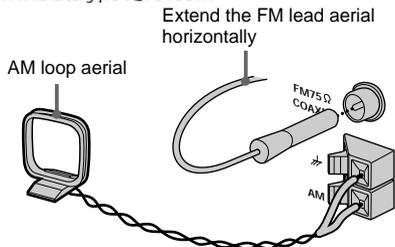
### 2 Connect the FM/AM aerials.

Set up the AM loop aerial, then connect it.

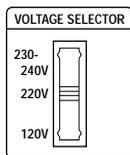


Jack type Ⓐ





- 3** For models with a voltage selector, set **VOLTAGE SELECTOR** to the local mains voltage.



- 4** Connect the mains lead to the mains.

The demonstration appears in the display.  
If the plug of the mains lead does not fit your mains, attach the supplied adaptor on to the plug (for models with a plug adaptor).  
To turn on the system, press I/⏻.

#### The demonstration mode

The demonstration mode appears in the display when you connect the mains lead to the mains. When you press I/⏻, the system turns on and the demonstration automatically ends. The demonstration is deactivated when you set the time.

To activate/deactivate the demonstration again, press DISPLAY while the system is off.

To adjust the brightness of the display back light

- 1 Press DIMMER while the system is on.
- 2 Turn ◀◀/▶▶ (or press ◀◀ or ▶▶ on the remote) to adjust the back light brightness.

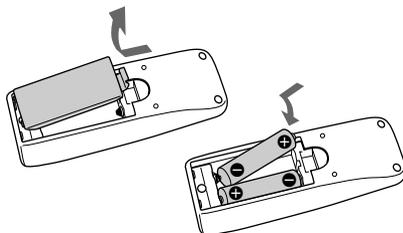
You can adjust the back light brightness in 11 steps from -5 to +5.

When carrying this system

Perform the following procedure to protect the CD mechanism.

- 1 Make sure that all discs are removed from the system.
- 2 Press FUNCTION while holding down CD 1 and then press I/⏻ until "LOCK" appears.
- 3 Disconnect the mains lead.

## Inserting two R6 (size AA) batteries into the remote



#### Tip

When the remote no longer operates the system, replace both batteries with new ones.

#### Note

If you do not use the remote for a long period of time, remove the batteries to avoid possible damage from battery leakage.

## Setting the time

- 1 Turn on the system.
- 2 Press **CLOCK/TIMER SET** on the remote.  
Proceed to step 5 when you set the clock for the first time.
- 3 Turn **◀◀/▶▶** (or press **◀◀** or **▶▶** on the remote) to select “**CLOCK SET?**”.
- 4 Press **ENTER/YES**.
- 5 Turn **◀◀/▶▶** (or press **◀◀** or **▶▶** on the remote) to set the hour.
- 6 Press **ENTER/YES** or **▶▶**.  
The minute indication flashes.
- 7 Turn **◀◀/▶▶** (or press **◀◀** or **▶▶** on the remote) to set the minute.
- 8 Press **ENTER/YES**.  
The clock starts working.

If you made a mistake

Press **◀◀** or **▶▶** repeatedly until the incorrect item flashes, then set it again.

To change the preset time

Start over from step 1.

## Saving the power in standby mode

**Press DISPLAY repeatedly when the system is off. Each time you press the button, the system switches cyclically as follows:**

Demonstration → Clock display → Power Saving Mode

To cancel the Power Saving Mode

Press **DISPLAY** once to show the demonstration, twice to show the clock display.

Tip

**I/⏻** indicator lights up even in the Power Saving Mode.

## Loading a CD

### 1 Press CD 1 – 3 ▲.

The disc tray opens.

### 2 Place a CD with the label side up on the disc tray.

When you play a CD single (8 cm CD), place it on the inner circle of the tray.



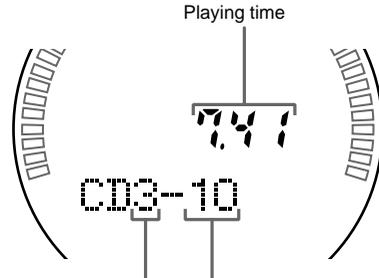
To load other CDs, press a different ▲ and place the CD in the disc tray.

### 3 Press the same ▲ again to close the disc tray.

## Playing a CD

### — Normal Play/Shuffle Play/Repeat Play

This system lets you play the CD in different play modes.



Disc tray number    Track number

### 1 Press FUNCTION repeatedly to switch the function to CD.

### 2 Press PLAY MODE/DIRECTION repeatedly until the mode you want appears in the display.

Select	To play
ALL DISCS (Normal Play)	All CDs in the disc tray continuously.
1 DISC (Normal Play)	The tracks on the CD you have selected in original order.
ALL DISCS SHUFFLE (Shuffle Play)	The tracks on all CDs in random order.
1 DISC SHUFFLE (Shuffle Play)	The tracks on the CD you have selected in random order.
PGM (Programme Play)	The tracks on all CDs in the order you want them to be played (see “Programming CD tracks” on page 11).

### 3 Press CD ►|| (or ► on the remote).

continued

## Other Operations

To	Do this
Stop play	Press ■.
Pause	Press CD ►   (or    on the remote). Press again to resume play.
Select a track	Turn ◀◀/▶▶ clockwise (to go forward) or counterclockwise (to go back) and release it when you locate the desired track (or press ◀◀ or ▶▶ on the remote).
Find a point in a track	Keep pressing ◀◀ or ▶▶ during play and release it at the desired point.
Select a CD	<ul style="list-style-type: none"> <li>Press CD 1 – 3. Play starts when the button is pressed.</li> <li>Press DISC SKIP on the remote repeatedly so that CD 1 – 3 appears. Press CD ►   (or ► on the remote) to play the selected CD.</li> </ul> <p>If you press CD 1 – 3 during play, the selected CD changes and the new CD starts playing.</p>
Remove a CD	Press one of CD 1 – 3 ▲ to open the tray that contains the CD you want to remove.
Play repeatedly (Repeat Play)	<p>Press REPEAT during play until “REPEAT” or “REPEAT 1” appears.</p> <p>REPEAT*: For all the tracks on the CD up to five times.</p> <p>REPEAT 1: For a single track only.</p> <p>To cancel playing repeatedly, press REPEAT until “REPEAT” or “REPEAT 1” disappears.</p>

\* You cannot select “REPEAT” and “ALL DISCS SHUFFLE” at the same time.

## Tips

- You can start playing from the desired track in Normal Play or Programme Play. Turn ◀◀/▶▶ (or press ◀◀ or ▶▶ on the remote) until the desired track number appears after step 1.
- The CD 1 – 3 button lights orange when a CD is loaded on the tray.  
All of the CD 1 – 3 button indicators light orange at first, and then turn on/off if the system determines that a CD is not loaded after the CD tray is opened and closed, etc.

## Note

The play mode cannot be changed while playing a disc.

# Programming CD tracks

## — Programme Play

You can make a programme of up to 25 tracks.

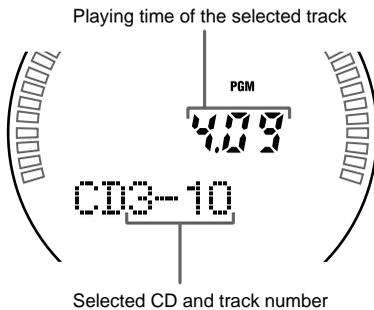
**1 Press FUNCTION repeatedly to switch the function to CD.**

**2 Press PLAY MODE/DIRECTION repeatedly until “PGM” appears.**

**3 Press CD 1 – 3 to select a CD.**

To programme all the tracks on a CD at once, proceed to step 5 with “AL” displayed.

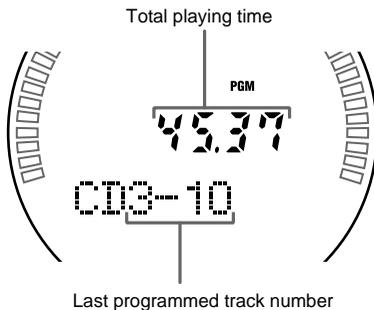
**4 Turn ◀◀/▶▶ (or press ◀◀ or ▶▶ on the remote) until the desired track number appears.**



**5 Press ENTER/YES.**

The track is programmed.

“STEP” appears, followed by the number of the track in the programmed sequence. The number of the last programmed track or “CD1-AL” appears, followed by the total playing time of the programme.



**6 To programme additional tracks, repeat steps 3 to 5.**

**7 Press CD ▶▶ (or ▶▶ on the remote).**

To	Do this
Cancel Programme Play	Press PLAY MODE/DIRECTION repeatedly until “PGM” and “SHUFFLE” disappear.
Check the programme	Press CHECK on the remote repeatedly in stop mode. After the last track, “Check End” appears.
Clear a track from the end	Press CLEAR on the remote in stop mode.
Clear a specific track	Press CHECK on the remote repeatedly in stop mode until the number of the track to be erased lights up, then press CLEAR.
Add a track to the programme in stop mode	Perform steps 3 to 5.

### Tips

- The programme you made remains after Programme Play finishes. To play the same programme again, press CD ▶▶.
- “- - -” appears when the total CD programme time exceeds 100 minutes, or when you select a CD track whose number is 21 or over.

## Using the CD display

### Press DISPLAY repeatedly.

When a CD TEXT disc is loaded, you can check the information recorded on the disc, such as the titles. The display changes cyclically as follows:

During normal play

Elapsed playing time on the current track →  
 Remaining time on the current track →  
 Remaining time on the CD (“1 DISC” mode) or  
 “- - -” display (“ALL DISCS” mode) →  
 Track title of the current track\* → Clock  
 display → Effect name

In stop mode

CD stopped display → CD disc title\* → Total  
 number of tracks and total playing time →  
 Clock display → Effect name

\* If a CD that has no title is loaded, nothing appears.  
 When the CD contains more than 20 tracks, CD  
 TEXT is not displayed from track 21 on.

## Labelling a CD

### — Disc Memo

You can label up to 50 CDs with titles of up to 20 symbols and characters. Whenever you load a labelled CD, the title appears in the display.

Notes

- You cannot label a CD for which “CD-TEXT” appears in the display.
- **When labelling CDs for the first time, be sure to erase all disc titles stored in the system memory (see “Erasing a disc title” on the next page).**

**1 Press FUNCTION repeatedly to switch the function to CD.**

**2 Press DISC SKIP on the remote repeatedly until the desired CD appears.**

If “SHUFFLE” or “PGM” appears in the display, press PLAY MODE/DIRECTION repeatedly until both disappear.

**3 Press NAME EDIT/CHARACTER on the remote.**

The cursor starts flashing.

**4 Press NAME EDIT/CHARACTER on the remote to select the desired type of character.**

Each time you press the button, the display changes cyclically as follows:

□ (Blank space) → A (Upper cases) → a  
 (Lower cases) → 0 (Numbers) → ‘  
 (Symbols)

**5 Turn ◀◀/▶▶ (or press ◀◀ or ▶▶ on the remote) to select the desired character.**

**To enter a blank space**

Press ▶▶.

**To enter a symbol**

You can use the following symbols.

’ - / , . ( ) ! ? & + < > \_ = ” ; # \$ % @ \* `

## 6 Press ►►: DataSheet4U.com

The character you selected in step 4 stops flashing and the cursor shifts to the right.

## 7 Repeat steps 4 and 5 to complete the entire title.

### If you made a mistake

Press ◀◀ or ▶▶ until the character you want to change flashes, then repeat steps 4 and 5.

### To erase a character

Press ◀◀ or ▶▶ until the cursor shifts to the character you want to erase, then press CLEAR on the remote while the character is flashing. You cannot insert characters.

## 8 Press ENTER/YES to complete the labelling procedure.

To cancel labelling

Press MENU/NO.

## Checking the disc titles

1 Press MENU/NO in stop mode.

2 Turn ◀◀/▶▶ (or press ◀◀ or ▶▶ on the remote) until "Name Check ?" appears, then press ENTER/YES.

3 Turn ◀◀/▶▶ (or press ◀◀ or ▶▶ on the remote) to select the disc titles stored in the system memory between 01 and 50.

To check the current disc title

Press SCROLL on the remote in stop mode.

## Erasing a disc title

1 Press MENU/NO in stop mode.

2 Turn ◀◀/▶▶ (or press ◀◀ or ▶▶ on the remote) until "Name Erase ?" appears, then press ENTER/YES.

3 Turn ◀◀/▶▶ (or press ◀◀ or ▶▶ on the remote) to select the disc title you want to erase.

The disc title appears scrolling in the display. "No Name" appears if no disc title is labelled.

4 Press ENTER/YES again.

"Complete!" appears.

To erase all disc titles, press ◀◀ or ▶▶ repeatedly until "All Erase?" appears in step 2, then press ENTER/YES twice.

To cancel erasing

Press MENU/NO during steps 1 to 3.

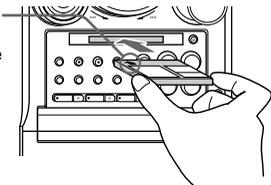
Note

To ensure that disc titles are not erased from memory, have the system connected to mains power at least once a month.

## Loading an MD

### Insert an MD.

With the arrow pointing toward the deck and the label side up



## Playing an MD

### — Normal Play/Shuffle Play/Repeat Play

This system lets you play the MD in different play modes.

- 1 Press **FUNCTION** repeatedly to switch the function to MD.
- 2 Press **PLAY MODE/DIRECTION** repeatedly until the mode you want appears in the display.

Select	To play
None (Normal Play)	An MD in original order.
SHUFFLE (Shuffle Play)	All tracks on an MD in random order.
PGM (Programme Play)	The tracks on an MD in the order you want them to be played (see “Programming MD tracks” on the next page).

- 3 Press MD ►|| (or ► on the remote).

## Other Operations

To	Do this
Stop play	Press ■.
Pause	Press MD ►   (or    on the remote). Press again to resume play.
Select a track	Turn ◀◀/▶▶ clockwise (to go forward) or counterclockwise (to go back) and release it when you locate the desired track (or press ◀◀ or ▶▶ on the remote).
Find a point in a track	Keep pressing ◀◀ or ▶▶ during play and release it at the desired point.
Remove the MD	Press ▲.
Play repeatedly (Repeat Play)	Press REPEAT during play until “REPEAT” or “REPEAT 1” appears. REPEAT: For all the tracks on the MD up to five times. REPEAT 1: For a single track only. To cancel playing repeatedly, press REPEAT until “REPEAT” or “REPEAT 1” disappears.

### Tip

You can start playing from the desired track in Normal Play or Programme Play. Turn ◀◀/▶▶ (or press ◀◀ or ▶▶ on the remote) until the desired track number appears after step 1.

### Note

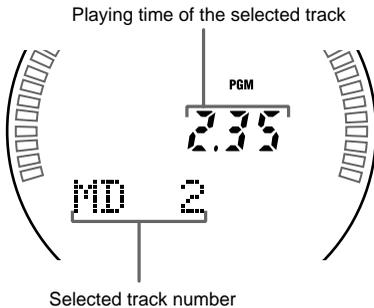
The play mode cannot be changed while playing a disc.

# Programming MD tracks

## — Programme Play

You can make a programme of up to 25 tracks.

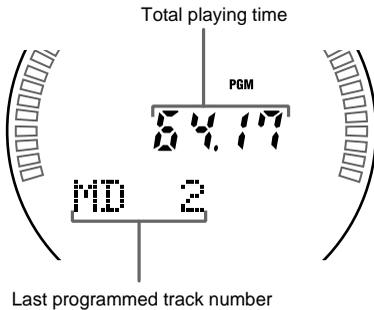
- 1 Press **FUNCTION** repeatedly to switch the function to MD.
- 2 Press **PLAY MODE/DIRECTION** repeatedly until “PGM” appears in stop mode.
- 3 Turn **◀▶** (or press **◀** or **▶** on the remote) until the desired track appears.



### 4 Press **ENTER/YES**.

The track is programmed.

“STEP” appears, followed by the number of the track in the programmed sequence. The number of the last programmed track appears, followed by the total playing time of the programme.



5 To programme additional tracks, repeat steps 3 and 4.

6 Press **MD ▶||** (or **▶** on the remote).

To	Do this
Cancel Programme Play	Press <b>PLAY MODE/DIRECTION</b> repeatedly until “PGM” and “SHUFFLE” disappear.
Check the programme	Press <b>CHECK</b> on the remote repeatedly in stop mode. After the last track, “Check End” appears.
Clear a track from the end	Press <b>CLEAR</b> on the remote in stop mode.
Clear a specific track	Press <b>CHECK</b> on the remote repeatedly in stop mode until the number of the track to be erased lights up, then press <b>CLEAR</b> .
Add a track to the programme in stop mode	Perform steps 3 and 4.

### Tips

- The programme you made remains after Programme Play finishes. To play the same programme again, press **MD ▶||**.
- “- - -” appears when the total MD programme time exceeds 200 minutes.

## Using the MD display

### Press DISPLAY repeatedly.

The display changes cyclically as follows:

During normal play

Elapsed playing time and the track number on

the current track → Remaining time and the

track number on the current track →

Remaining time on the MD → Track title of

the current track → Clock display → Effect

name

In stop mode

Total number of tracks and total playing time

→ Remaining recordable time (Only for a

recordable MD) → Disc title appears for a pre-

mastered MD → Disc title → Clock display

→ Effect name

Tip

You can check a track title at any time during play. If you press SCROLL, a track title appears scrolling in the display.

Press SCROLL at any point during the scroll display to stop the scrolling. Press SCROLL again to restart the scrolling.

## Before you start recording

MDs (MiniDisc) let you digitally record and play music with high quality sound. Another feature of MDs is track marking. The track marking feature lets you quickly locate a specific point or easily edit the recorded tracks. However, depending on the source you record, the recording method and the way the track numbers are recorded differ.

When the source you record from is:

- This system's CD player
  - The MD deck performs digital recording.\*<sup>1</sup>
  - Track numbers are automatically marked as on the original CD.
- Other digital components connected to the CD DIGITAL IN jack
  - The MD deck performs digital recording.\*<sup>1</sup>
  - Track numbers are marked differently depending on the source you record.
- This system's tuner and other analogue components connected to the VIDEO (AUDIO) IN jacks
  - The MD deck performs analogue recording.
  - A track number is marked at the beginning of a recording, but when you turn on the Level Synchro Recording function (see “Marking track numbers” on page 21), track numbers are automatically marked in sync with the level of the input signal.

\*<sup>1</sup> For details on the limitations of digital recording, see “System limitations of MDs” on page 47.

If you use a partially recorded MD, recording starts after the recorded tracks.

### Note on MD track numbers

On an MD, the track numbers (track sequence), track start and end point information, etc., are recorded in the TOC\*2 area independent of the sound information. You can edit recorded tracks quickly by modifying the TOC information.

\*2 TOC: Table Of Contents

After recording

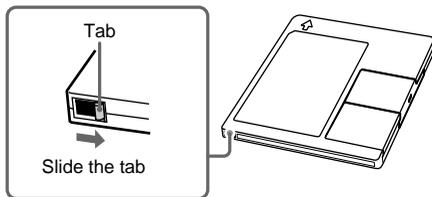
**Press ▲ to remove the MD or press I/⏻ (power) to turn off the system.**

“TOC” lights up, or either “TOC” or “STANDBY” starts flashing. The TOC is updated and recording is completed.

Before pulling out the mains lead MD recording is completed when the MD Table of Contents (TOC) is updated. The TOC is updated when you eject the MD or press I/⏻ to turn off the system. Do not pull out the mains lead before updating the TOC (while “TOC” is lit) or while updating the TOC (while “TOC” or “STANDBY” is flashing) to ensure a complete recording.

Protecting a recorded MD

To protect a recorded MD, slide the tab on the side of the MD to open the slot. In this position, the MD cannot be recorded. To record on the MD, slide the tab to close the slot.



## Recording a CD on an MD

### — CD-MD Normal-Speed Synchro Recording/CD-MD High-Speed Synchro Recording

In addition to normal-speed recording, you can also record at high speed (approximately twice the normal speed).

- 1 Load a recordable MD.
- 2 Load a CD you want to record.
- 3 Press FUNCTION repeatedly to switch the function to CD.
- 4 Press PLAY MODE/DIRECTION repeatedly until “1 DISC” appears in the display.
- 5 Press SYNCHRO MODE repeatedly until “CD→MD SYNC?” appears.  
To record at high speed (CD-MD High-Speed Synchro Recording), press SYNCHRO MODE repeatedly until “HISPEED SYNC?” appears.

### 6 Press ENTER/START.

The MD deck stands by for recording and the CD player pauses for play.

### 7 Press ENTER/START again.

Recording starts. You cannot monitor the recorded signal during high-speed recording.

To record on an MD and a tape at the same time

See “Recording a CD on a tape” on page 38.

If you stop recording or the MD runs out of recording time during high-speed recording

The partial high-speed recorded track is not recorded on the MD. Record the track again.

continued

If "Retry" flashes in the display after you press ENTER/START in step 7 a reading failure has occurred, and the system is trying to read the data again.

- If the retry was successful, the system continues with High-Speed CD-MD Synchro Recording.
- If the condition of the inserted CD or the system is poor, and retry fails, High-Speed CD-MD Synchro Recording is disabled. In this case, "×1" flashes in the display and the MD deck automatically starts recording. Note that monitoring of the recorded signal is not possible when this occurs.

To record on an MD for a long time (MDLP recording)

See "Recording tips" on page 20.

To stop recording

Press ■.

Tips

- Depending on the disc, CD TEXT information may also be recorded (except when you record on an MD and a tape at the same time). If "CD-TEXT" flashes during recording, see "Labelling an MD" on page 25.
- You can record only your favourite CD tracks with Programme Play. After step 2, follow the same procedures as step 1 to 6 in "Programming CD tracks" on page 11. Then, go to step 5.

Notes

- You cannot pause recording during High-Speed CD-MD Synchro Recording.
- If the play mode is set to Repeat Play or Shuffle Play, it automatically switches to normal play at step 6.
- The following items are either inoperative or cannot be used during High-Speed CD-MD Synchro Recording:
  - The Auto Cut Function
  - The recording level specified in the Setup menu
- If the MD becomes full during recording, the CD player and the MD deck stop automatically.

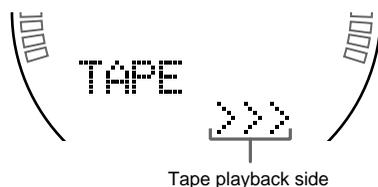
## Recording a tape on an MD

### — TAPE-MD Synchro Recording

You can make an analogue recording of a tape on an MD.

- 1 Load a recordable MD.
- 2 Insert a tape.
- 3 Press SYNCHRO MODE repeatedly until "TAPE→MD SYNC?" appears.
- 4 Press ENTER/START.

The MD deck stands by for recording and the tape deck pauses for play.



>>> appears for the top side, and <<< for the bottom side. To play the side not indicated, press ■ and remove the cassette to reverse the tape side, then perform steps 3 and 4 again.

- 5 Press ENTER/START again.

Recording starts.

To stop recording

Press ■.

Note

If the MD becomes full during recording, the tape deck and the MD deck stop automatically.

## Recording on an MD manually

### — Manual Recording

You can record just the portions you like from a CD, or start recording from the middle of the tape. You can also record a radio programme.

- 1 Load a recordable MD.
- 2 Press **FUNCTION** repeatedly to select the desired source to record.
- 3 Press **MD REC.**  
The MD deck stands by for recording.
- 4 Press **MD ►||** and then start playing the desired source to record.

To stop recording

Press **■**.

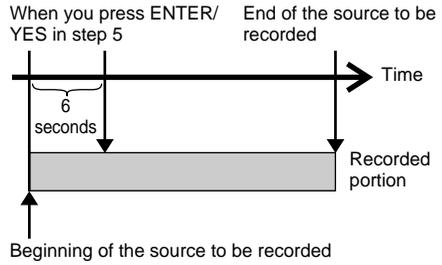
Tip

You can check the remaining recordable time on the MD during recording by pressing **DISPLAY** on the remote.

## Starting recording with 6 seconds of prestored audio data

### — Time Machine Recording

When recording from an FM or satellite broadcast, the first few seconds of material are often lost due to the time it takes you to ascertain the contents and press the record button. To prevent the loss of this material, the Time Machine Recording feature constantly stores the most recent audio data in a buffer memory. This lets you record the sound from 6 seconds before starting recording, as shown in the illustration below:



- 1 Load a recordable MD.
- 2 Press **FUNCTION** repeatedly to select the desired source to record.
- 3 Press **MD REC.**  
The MD deck stands by for recording.
- 4 Start playing the desired source to record.
- 5 Press **ENTER/YES** at the desired point to start recording.

Note

The MD deck starts storing audio data when the deck stands by for recording in step 3 and you start playing the source. If less than 6 seconds have passed when you press **ENTER/YES**, Time Machine Recording starts with less than 6 seconds of audio data.

## Recording tips

### Recording for long times

This system has two long time recording modes: LP2 and LP4 (MDLP recording). When recording in LP2 Stereo mode, you can record 2 times the normal recordable time, and in LP4 Stereo mode, you can record 4 times the normal recordable time. In addition, the recordable time for monaural recording is approximately double the stereo recording time.

LP4 Stereo mode (4× long time recording mode) achieves a long stereo recording time by use of a special compression system. When placing emphasis on sound quality, Stereo recording or LP2 Stereo recording (2× long time recording mode) is recommended.

#### 1 Press REC MODE repeatedly to select the recording mode.

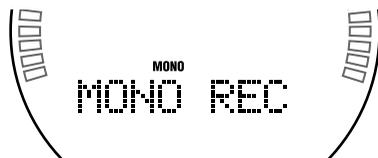
The display changes cyclically as follows:  
STEREO REC (Stereo) → LP2 REC (LP2 Stereo) → LP4 REC (LP4 Stereo) → MONO REC (Monaural)

#### 2 Start the recording.

The source is recorded in the selected recording mode.

#### Notes

- The selected recording mode is kept even after recording has finished, so be sure to check the recording mode before recording.
- Tracks recorded in MDLP (LP2 or LP4) Stereo mode cannot be played back on a system that does not support MDLP mode.
- Even if you press REC MODE during recording or recording pause, you cannot change the recording mode.
- Even if you press REC MODE repeatedly to select MONO, the monitor signal during recording does not become monaural.
- You cannot use S.F Edit and some other MD edit functions for tracks recorded in MDLP mode.
- If you press REC MODE repeatedly to select MONO REC, "MONO" appears.



To add "LP:" at the beginning of a track name during MDLP recording "LP:" appears when you try to play the track on a system that does not support MDLP mode. This convenient function lets you know at a glance that the track cannot be played back. The factory setting is "On".

**1** Press FUNCTION repeatedly to switch the function to MD.

**2** Press MENU/NO.

**3** Turn ◀◀/▶▶ (or press ◀◀ or ▶▶ on the remote) until "Setup ?" appears.

**4** Press ENTER/YES.

**5** Turn ◀◀/▶▶ (or press ◀◀ or ▶▶ on the remote) until "LP Stamp Off" (or "LP Stamp On") appears, then press ENTER/YES.

**6** Turn ◀◀/▶▶ (or press ◀◀ or ▶▶ on the remote) until "LP Stamp On" appears, then press ENTER/YES.

**7** Press MENU/NO.

#### Notes

- The recorded "LP:" is a stamp which appears to indicate that the track cannot be played back when you try to play the track on system that does not support MDLP mode. It does not appear for systems that support MDLP mode.
- When set to "On", "LP:" is recorded as the track name, so the number of characters that can be input to an MD is reduced. In addition, when you copy a track name with "LP:" added, "LP:" is automatically added to the copied track name. If you divide an "LP:" track using the Divide function, "LP:" is also added to the latter track.

## Marking track numbers

- **Automatically during recording**

Track numbers are automatically marked as on the original source during recording from this system's CD player or components connected to CD DIGITAL IN jack. Use the Level Synchro Recording function to automatically mark track numbers during recording from this system's tuner or components connected to the VIDEO (AUDIO) IN jacks.

- **At any point during recording**

You can mark track numbers during recording of any source.

- **After recording**

Use the Divide Function (see "Dividing recorded tracks" on page 29).

Marking track numbers automatically during recording  
**— Level-Synchro Recording**

The Level Synchro Recording function is factory set to on, so the track numbers are automatically marked. If "LEVEL-SYNC" does not appear during recording, turn on the Level Synchro Recording as follows. Track numbers are automatically marked when the input signal is continuously below a certain level for more than two seconds and then exceeds that level.

Notes

- You cannot mark track numbers automatically if the sound source to be recorded is noisy (e.g., tapes or radio programmes) or during timer-recording.
- If you pause recording during CD recording, a track number is recorded at that point. Also, note that the tracks might be recorded as the same single track with a single track number when the same single track of the same CD is recorded repeatedly.

- 1 Press MD REC to stand by for recording.
- 2 Press MENU/NO.
- 3 Turn ◀◀/▶▶ (or press ◀◀ or ▶▶ on the remote) until "Setup ?" appears, then press ENTER/YES.
- 4 Turn ◀◀/▶▶ (or press ◀◀ or ▶▶ on the remote) until "T.Mark Off" (or "T.Mark LSync") appears, then press ENTER/YES.
- 5 Turn ◀◀/▶▶ (or press ◀◀ or ▶▶ on the remote) to select the setting, then press ENTER/YES.

To	Select
Turn on the Level Synchro Recording function	T.Mark LSync (factory setting)
Turn off the Level Synchro Recording function	T.Mark Off

When you set the Level Synchro Recording function, "LEVEL-SYNC" lights up.

- 6 Press MENU/NO.  
 To continue and record, follow the procedures described on the various recording pages.

**continued**

To change the trigger level for Level Synchro Recording

Perform the following procedure to change the signal level that triggers Level Synchro Recording.

- 1 Press FUNCTION repeatedly to switch the function to MD.
- 2 Press MENU/NO.
- 3 Turn ◀▶ (or press ◀ or ▶ on the remote) until "Setup ?" appears, then press ENTER/YES.
- 4 Turn ◀▶ (or press ◀ or ▶ on the remote) until "LS(T)" appears, then press ENTER/YES.
- 5 Turn ◀▶ (or press ◀ or ▶ on the remote) to select the level, then press ENTER/YES.

You can set the level at any value between -72 dB and 0 dB, in 2 dB steps. When you press CLEAR on the remote, the volume returns to the factory setting (-50 dB).

- 6 Press MENU/NO.

Marking track numbers at a specific point during recording

### — Track Mark

You can mark track numbers at any time during recording, regardless of the type of sound source.

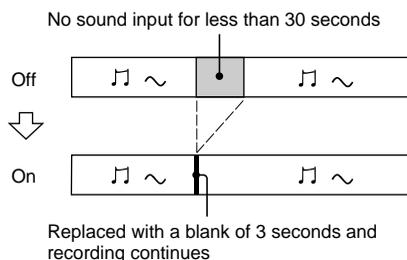
**Press MD REC during recording at the point you want to add a track mark.**

The tracks following the added one are renumbered.

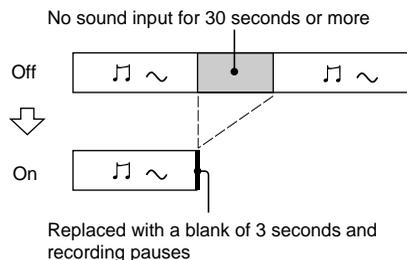
## Making a space between tracks 3 seconds long

### — Smart Space

The Smart Space function lets you make the blank spaces between tracks 3 seconds long automatically while making a digital recording from a CD. For other types of recording, if the Smart Space function is on and there is no sound input for about 3 seconds or more (but less than 30 seconds) while recording, the MD deck replaces this silence with a blank of about 3 seconds and continues recording.



**Auto Cut:** When the Smart Space function is on, if there is no sound input for 30 seconds or more, the MD deck replaces this silence with a blank of about 3 seconds and enters recording pause.



- 1 Press **MD REC** to stand by for recording.
- 2 Press **MENU/NO**.
- 3 Turn **◀▶** (or press **◀** or **▶** on the remote) until “Setup ?” appears, then press **ENTER/YES**.
- 4 Turn **◀▶** (or press **◀** or **▶** on the remote) until “S.Space Off” (or “S.Space On”) appears, then press **ENTER/YES**.
- 5 Turn **◀▶** (or press **◀** or **▶** on the remote) to select the setting, then press **ENTER/YES**.

To	Select
Turn on the Smart Space function	S.Space On (factory setting)
Turn off the Smart Space function	S.Space Off

- 6 Press **MENU/NO**.  
To continue and record, follow the procedures described on the various recording pages.

## Adjusting the recording level

When recording on an MD, you can adjust the recording level to the desired volume. You can adjust the recording level not only when making an analogue recording, but also when making a digital recording from a CD, etc.

- 1 Prepare the desired sound source to record and start play.
- 2 Confirm that the MD deck is in recording standby. If not, press **MD REC**.
- 3 Press **MENU/NO**.
- 4 Turn **◀▶** (or press **◀** or **▶** on the remote) until “Setup ?” appears, then press **ENTER/YES**.
- 5 Turn **◀▶** (or press **◀** or **▶** on the remote) until “Level Adjust ?” appears, then press **ENTER/YES**.
- 6 Turn **◀▶** (or press **◀** or **▶** on the remote) to adjust the recording level.

The recording level can be adjusted from  $-\infty$  to +18, in 0.1 dB steps. While monitoring the sound, adjust to the optimum level while making sure that “OVER” does not appear in the display at the loudest portion.

- 7 Press **ENTER/YES**.
- 8 Press **MENU/NO**.
- 9 Press **■**.
- 10 When a CD or other sound source is playing, stop playback.

To continue and record, follow the procedures described on the various recording pages.

### Tips

- You can adjust the recording level in 1 dB step by pressing **◀** or **▶**.
- You can also adjust the recording level during recording.
- Once adjusted, the recording level is maintained until you adjust it again.

## Before you start editing

### Before editing

You can edit an MD only when:

- The MD is recordable.
- The MD play mode is normal play.

Check the following, before editing.

#### 1 Check the tab of the MD to be edited.

If the MD is protected when you press MENU/NO, “C11” and “Protected” appear alternately and the MD cannot be edited.

Slide the tab to close the slot.

#### 2 Press PLAY MODE/DIRECTION repeatedly until both “PGM” and “SHUFFLE” disappear.

You can edit the MD only in normal play mode. You cannot edit the MD in Shuffle or Programme Play mode.

### To cancel the last edit

Use Undo Function to cancel the last edit and restore the contents of the MD to the condition before the edit (see page 31).

### To quit while editing

Press MENU/NO.

### After editing

**Press ▲ to remove the MD or press I/⏻ (power) to turn off the system.**

“TOC” lights up, or either “TOC” or “STANDBY” starts flashing. The TOC is updated and editing is completed.

Before pulling out the mains lead MD editing is completed when the MD Table of Contents (TOC) is updated. The TOC is updated when you eject the MD or press I/⏻ to turn off the system. Do not pull out the mains lead before updating the TOC (while “TOC” is lit) or while updating the TOC (while “TOC” or “STANDBY” is flashing) to ensure a complete editing.

## Labelling an MD

### — Name Function

You can create titles for your recorded MDs and tracks as follows.

During recording

If “CD-TEXT” lights up or flashes during recording, you can record the CD TEXT information onto the MD as follows: However, the CD TEXT information is not recorded when recording a CD on an MD and a tape at the same time.

#### • Automatically during recording

If you record on an unrecorded or completely erased (see “Erasing all tracks” on page 27) MD when “CD-TEXT” is lit, the CD TEXT information is automatically recorded.

#### • Manually during recording

When “CD-TEXT” flashes, press NAME EDIT/CHARACTER on the remote, and then press ENTER/YES on the remote to record the title of the current track.

Note

Depending on the disc, the CD TEXT information may not be recorded automatically.

After recording

Use Name Function on this page. You can input a total of approximately 1700 characters for the disc title and track titles on a single MD.

### 1 Press FUNCTION repeatedly to switch the function to MD.

To label a track, turn ◀◀/▶▶ (or press ◀◀ or ▶▶ on the remote) until the desired track number appears.

### 2 Press NAME EDIT/CHARACTER on the remote.

The cursor starts flashing.

### 3 Press NAME EDIT/CHARACTER on the remote to select the desired type of character.

Each time you press the button, the display changes cyclically as follows:

□ (Blank space) → A (Upper cases) → a (Lower cases) → 0 (Numbers) → ‘ (Symbols)

### 4 Turn ◀◀/▶▶ (or press ◀◀ or ▶▶ on the remote) to select the desired character.

#### To enter a blank space

Press ▶▶.

#### To enter a symbol

You can use the following symbols.

’ - / , . ( ) : ! ? & + < > \_ = ” ; # \$ % @ \* `

### 5 Press ▶▶.

The character you selected in step 4 stops flashing and the cursor shifts to the right.

### 6 Repeat steps 3 to 5 to complete the entire title.

#### If you made a mistake

Press ◀◀ or ▶▶ until the character you want to change flashes, then repeat steps 3 to 5.

#### To erase a character

Press CLEAR on the remote while the character is flashing. You cannot insert characters.

### 7 Press ENTER/YES to complete the labelling procedure.

Note

You can label a track title during play. The playback repeats until you finish labelling.

continued

## Copying a disc or track title

You can copy a labelled disc or track title to use it as a title of another track or the disc title within a disc.

- 1 Press MENU/NO in stop mode.
- 2 Turn ◀◀/▶▶ (or press ◀◀ or ▶▶ on the remote) until "Name ?" appears, then press ENTER/YES.
- 3 Turn ◀◀/▶▶ (or press ◀◀ or ▶▶ on the remote) until "Nm Copy ?" appears, then press ENTER/YES.
- 4 Turn ◀◀/▶▶ (or press ◀◀ or ▶▶ on the remote) to select "Disc" (when copying the disc title) or the track number with the title you want to copy, then press ENTER/YES.
- 5 Turn ◀◀/▶▶ (or press ◀◀ or ▶▶ on the remote) to select the copy destination track number or "Disc" (when copying as the disc title), then press ENTER/YES.

When "Overwrite ??" appears

The copy destination already has a disc or track title. To continue and copy the title, press ENTER/YES.

## Checking the titles

To check the disc titles, press SCROLL on the remote in stop mode. To check the track title, press SCROLL on the remote during play. The title appears scrolling in the display. To stop scrolling, press SCROLL on the remote. Press the button again to resume scrolling.

## Erasing the titles

- 1 Press MENU/NO in stop mode.
- 2 Turn ◀◀/▶▶ (or press ◀◀ or ▶▶ on the remote) until "Name ?" appears, then press ENTER/YES.
- 3 Turn ◀◀/▶▶ (or press ◀◀ or ▶▶ on the remote) until "Nm Erase ?" appears, then press ENTER/YES.
- 4 Turn ◀◀/▶▶ (or press ◀◀ or ▶▶ on the remote) until the desired title to erase appears, then press ENTER/YES.

To erase all the titles, turn ◀◀/▶▶ (or press ◀◀ or ▶▶ on the remote) until "Nm All Ers?" appears in step 3, then press ENTER/YES twice.

# Erasing recordings

## — Erase Function

The MD deck lets you erase unwanted tracks quickly and easily.

The three options for erasing recordings are:

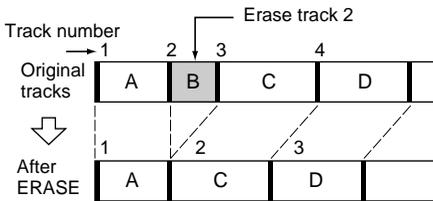
- Erasing a single track. (Track Erase)
- Erasing all tracks. (All Erase)
- Erasing a portion of a track. (A-B Erase)

## Erasing a single track

### — Track Erase Function

You can erase a track simply by selecting its track number. When you erase a track, the total number of tracks on the MD decreases by one and all the tracks following the erased one are renumbered.

E.g.: Erasing track 2.



- 1 Press **FUNCTION** repeatedly to switch the function to MD.
- 2 Press **MENU/NO** to display “Edit Menu”.
- 3 Turn **◀▶** (or press **◀** or **▶** on the remote) until “Tr Erase ?” appears, then press **ENTER/YES**.
- 4 Turn **◀▶** (or press **◀** or **▶** on the remote) until the desired track number appears.
- 5 Press **ENTER/YES**.  
“Complete!” appears.

Note

“Erase???” appears when the track was recorded or edited on another deck and then protected. To erase the track, press **ENTER/YES** while “Erase???” appears.

## Erasing all tracks

### — All Erase Function

You can erase the disc title, all recorded tracks and their titles at once.

- 1 Press **FUNCTION** repeatedly to switch the function to MD.
- 2 Press **MENU/NO** to display “Edit Menu”.
- 3 Turn **◀▶** (or press **◀** or **▶** on the remote) until “All Erase?” appears, then press **ENTER/YES**.  
“All Erase???” appears.
- 4 Press **ENTER/YES** again.  
“Complete!” appears.

continued

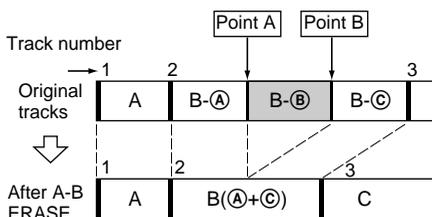
## Erasing a portion of a track

### — A-B Erase Function

You can specify a portion within a track and erase the portion with ease. You can shift the desired portion by frame\*, minute or second intervals.

\* 1 frame is 1/86 second.

E.g.: Erasing a portion of track 2.



- 1 Press **FUNCTION** repeatedly to switch the function to MD.
- 2 While playing an MD, press **MD ►||** (or **||** on the remote) at the starting point of the portion to be erased (point A).  
The MD pauses.
- 3 Press **MENU/NO** to display "Edit Menu".  
"A-B Erase?" appears.
- 4 Press **ENTER/YES**.
- 5 Press **ENTER/YES** again.  
"Rehearsal" and "Point A ok?" appear alternately while the deck plays the selected track from the beginning to point A.

- 6 While monitoring the sound, turn **◀◀/▶▶** (or press **◀◀** or **▶▶** on the remote) to find the starting point of the portion to be erased (point A).

You can shift the starting point by 1/86 second (1 frame) intervals.

To shift the point by second or minute intervals, press **◀◀** or **▶▶** so that "s" or "m" flashes, then turn **◀◀/▶▶** (or press **◀◀** or **▶▶** on the remote).

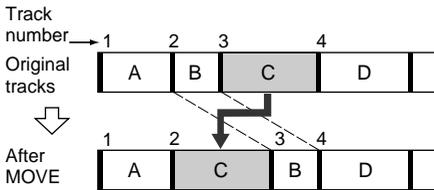
- 7 Repeat step 6 until point A is played correctly.
- 8 Press **ENTER/YES** if point A is correct.  
"Point B Set" appears and playback for setting the ending point of the portion to be erased (point B) starts.
- 9 Continue playback until the deck reaches point B, then press **ENTER/YES**.  
"A-B Ers" and "Point B ok?" appear alternately and the deck repeats a portion of the few seconds before point A and after point B successively.
- 10 Turn **◀◀/▶▶** (or press **◀◀** or **▶▶** on the remote) to find point B.  
The procedure is the same as step 6.
- 11 Press **ENTER/YES** if point B is correct.  
"Complete!" appears.

## Moving recorded tracks

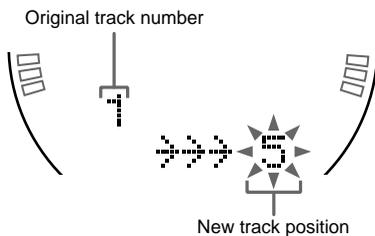
### — Move Function

You can use this function to change the order of any track on the disc. When you move tracks, the tracks are automatically renumbered.

E.g.: Moving track 3 to position 2.



- 1 Press **FUNCTION** repeatedly to switch the function to MD.
- 2 Press **MENU/NO** to display “Edit Menu”.
- 3 Turn **◀/▶** (or press **◀** or **▶** on the remote) until “Move ?” appears, then press **ENTER/YES**.
- 4 Turn **◀/▶** (or press **◀** or **▶** on the remote) until the desired track number to move appears, then press **ENTER/YES**.
- 5 Turn **◀/▶** (or press **◀** or **▶** on the remote) until the new track position appears.



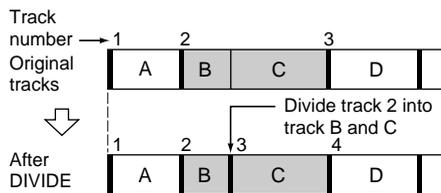
- 6 Press **ENTER/YES**.  
“Complete!” appears.

## Dividing recorded tracks

### — Divide Function

You can use this function to mark track numbers after recording. The total number of tracks increases by one and all the tracks following the divided ones are renumbered.

E.g.: Dividing track 2 into two tracks.



- 1 Press **FUNCTION** repeatedly to switch the function to MD.
- 2 Press **MENU/NO** to display “Edit Menu”.
- 3 Turn **◀/▶** (or press **◀** or **▶** on the remote) until “Divide ?” appears, then press **ENTER/YES**.
- 4 Turn **◀/▶** (or press **◀** or **▶** on the remote) until the desired track number to divide appears, then press **ENTER/YES**.  
“Rehearsal” appears and the portion to be divided is played repeatedly.
- 5 While monitoring the sound, turn **◀/▶** (or press **◀** or **▶** on the remote) to adjust the point to be divided.

You can shift the point by 1/86 second (1 frame) intervals.

To shift the point by second or minute intervals, press **◀** or **▶** so that “s” or “m” flashes, then turn **◀/▶** (or press **◀** or **▶** on the remote).

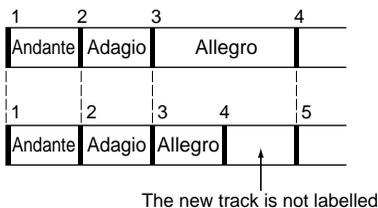
- 6 Press **ENTER/YES**.  
“Complete!” appears.

continued

**Note**

If you divide a labelled track (see “Labelling an MD” on page 25) into two tracks, only the first track retains the track title.

E.g.:



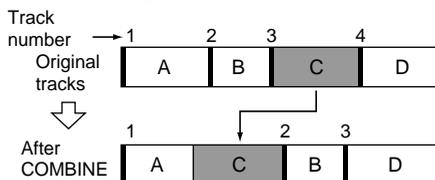
## Combining recorded tracks

### — Combine Function

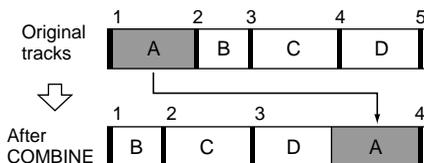
You can use this function to combine 2 tracks into a single track. The total number of tracks decreases by one and all tracks following the combined ones are renumbered.

You can also use this function to erase unnecessary track numbers.

E.g.: Combining track 3 to track 1.



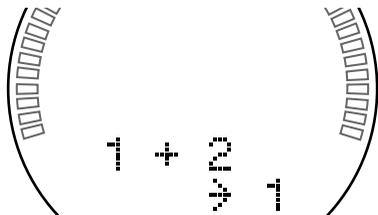
E.g.: Combining track 1 to track 4.



- 1 Press **FUNCTION** repeatedly to switch the function to MD.
- 2 Press **MENU/NO** to display “Edit Menu”.
- 3 Turn **◀◀/▶▶** (or press **◀◀** or **▶▶** on the remote) until “Combine ?” appears, then press **ENTER/YES**.

4 Turn **◀◀/▶▶** (or press **◀◀** or **▶▶** on the remote) until the first track number of the two to be combined appears, then press **ENTER/YES**.

5 Turn **◀◀/▶▶** (or press **◀◀** or **▶▶** on the remote) until the second track number of the two to be combined appears.



6 Press **ENTER/YES**.

“Complete!” appears.

#### Note

If both of the combined tracks have track titles, the title of the second track is erased.

## Undoing the last edit

### — Undo Function

You can use this function to cancel the last edit and restore the contents of the MD to the condition before the edit.

Note, however, that you cannot undo an edit if you do any of the following after the edit:

- Do another edit.
- Start recording.
- Update the TOC by turning off the system or ejecting the MD.
- Disconnect the mains lead.

You cannot undo the S.F Edit Function even if you use the Undo Function.

1 Press **MENU/NO** in stop mode to display “Edit Menu”.

2 Turn **◀◀/▶▶** (or press **◀◀** or **▶▶** on the remote) until “Undo ?” appears.

“Undo ?” does not appear, when there is no editing function that can be cancelled.

3 Press **ENTER/YES**.

A message appears.

4 Press **ENTER/YES** again.

“Complete!” appears.

## Changing the recorded level after recording

### — S.F Edit Function

You can change the volume of recorded tracks using S.F (Scale Factor) Edit. The original track is recorded over at the new recording level. When changing the recording level, you can select Fade-in Recording to gradually increase the signal level at the start of recording, or Fade-out Recording to gradually decrease the signal level at the end of the recording.

### Changing the overall recording level

- 1 Press **FUNCTION** repeatedly to switch the function to **MD**.
- 2 Press **MENU/NO** to display "Edit Menu".
- 3 Turn **◀▶** (or press **◀** or **▶** on the remote) until "S.F Edit?" appears, then press **ENTER/YES**.
- 4 Turn **◀▶** (or press **◀** or **▶** on the remote) until "Tr Level?" appears, then press **ENTER/YES**.
- 5 Turn **◀▶** (or press **◀** or **▶** on the remote) until the track number you want to change the recording level appears, then press **ENTER/YES**.  
"Level 0dB" appears in the display.

- 6 Turn **◀▶** (or press **◀** or **▶** on the remote) to change the recorded level.

The recording level can be changed from -12 dB to +12 dB, in 2 dB steps. While monitoring the sound, change to the optimum level while making sure that "OVER" does not appear in the display at the loudest portion.

- 7 Press **ENTER/YES**.

"S.F Edit OK?" appears in the display.

- 8 Press **ENTER/YES** again.

The deck starts recording over the existing track. "S.F Edit: \*\* %" appears while the track is being recorded. An amount of time that is roughly equal to or longer than the playback time of the track is required when recording over the track. When the recording finishes, "Complete!" appears in the display for a few seconds.

## Fade-in and Fade-out Recording

- 1 Press **FUNCTION** repeatedly to switch the function to MD.
- 2 Press **MENU/NO** to display “Edit Menu”.
- 3 Turn **◀/▶** (or press **◀** or **▶** on the remote) until “S.F Edit?” appears, then press **ENTER/YES**.
- 4 Turn **◀/▶** (or press **◀** or **▶** on the remote) until “Fade In?” or “Fade Out?” appears, then press **ENTER/YES**.
- 5 Turn **◀/▶** (or press **◀** or **▶** on the remote) until the track number you want to change the recording level appears, then press **ENTER/YES**.  
“Time 5.0s” appears in the display.

- 6 Turn **◀/▶** (or press **◀** or **▶** on the remote) to change the Fade-in or Fade-out recording time.

The system plays the portion that will be recorded over using Fade-in or Fade-out Recording. You can set the time at any value between 1.0 second and 12.5 seconds, in 0.1 second steps. You cannot set the time longer than the track.

- 7 Press **ENTER/YES**.  
“S.F Edit OK?” appears in the display.

- 8 Press **ENTER/YES** again.

The deck starts recording over the existing track. “S.F Edit: \*\* %” appears while the track is being recorded. When the recording finishes, “Complete!” appears in the display for a few seconds.

### Notes

- Do not disconnect the mains lead or move the system while recording is in progress. This may damage the recording data preventing recording from being performed properly.
- Do not use an MD that is damaged or dirty. This may prevent recording data from being recorded properly.
- Repeatedly changing the recording level results in poor sound quality.
- The recording level will not return to the exact original level once the recording level has been changed even if it returned to the original level.
- The recording level cannot be changed while the timer is activated.

## Presetting radio stations

You can preset 20 stations for FM and 10 stations for AM.

### 1 Press TUNER/BAND repeatedly to select “FM” or “AM”.

Pressing TUNER/BAND turns on the system.

### 2 Press and hold ◀◀ or ▶▶ until “AUTO” appears.

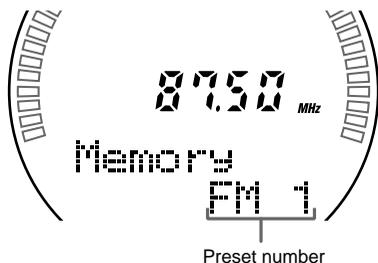
### 3 Press ◀◀ or ▶▶.

The frequency indication changes and the scanning stops when the system tunes in a station. “TUNED” and “STEREO” (for a stereo programme) appear.

### 4 Press MENU/NO.

### 5 Turn ◀◀/▶▶ (or press ◀◀ or ▶▶ on the remote) until “Memory?” appears, then press ENTER/YES.

A preset number appears in the display. The stations are stored from preset number 1.



### 6 Press ENTER/YES.

“Complete!” appears, and then the station is stored.

### 7 Repeat steps 1 to 6 to store other stations.

To stop scanning

Press ◀◀ or ▶▶.

To tune in a station with a weak signal

Press ◀◀ or ▶▶ in step 2. “MANUAL” appears. Then press ◀◀ or ▶▶ repeatedly to tune in the station manually.

To set another station to an existing preset number

Start over from step 1. After step 5, turn ◀◀/▶▶ (or press ◀◀ or ▶▶ on the remote) to select the preset number you want to store the other station.

To change the AM tuning interval (except for the European model)

The AM tuning interval is factory-set to 9 kHz (10 kHz in some areas). To change the AM tuning interval, tune in any AM station first, then turn off the system. While holding STEREO/MONO, turn the system back on. When you change the interval, all the AM preset stations are erased. To reset the interval, repeat the same procedure.

Tip

The preset stations are retained for about a day even if you disconnect the mains lead or if a power failure occurs.

# Listening to the radio

## — Preset Tuning

Preset radio stations in the tuner's memory first (see "Presetting radio stations" on page 34).

- 1 Press **TUNER/BAND** repeatedly to select "FM" or "AM".
- 2 Turn **◀◀/▶▶** (or press **◀◀** or **▶▶** on the remote) to select the desired preset station (or station name\* or RDS station name\*\*).

\* The station name appears only if you have labelled the station (see "Labelling the preset stations" on the next page).

\*\* European model only.

### Tips

- To improve broadcast reception, adjust the supplied aerials, or connect a commercially available external aerial.
- When an FM stereo programme has static noise, press **STEREO/MONO** repeatedly until "MONO" appears. There will be no stereo effect, but the reception will improve.



To	Do this
Turn off the radio	Press <b>I/⏻</b> .
Change the display	Press <b>DISPLAY</b> repeatedly. The display changes cyclically as follows: Frequency with station name* → Clock display → Effect name

\* The station name appears when you label the preset station (see "Labelling the preset stations" on the next page) or the RDS broadcast is received (see "Using the Radio Data System (RDS)" on the next page).

## Listening to non-preset radio stations

- Press **◀◀** or **▶▶** in step 2. "MANUAL" appears. Then press **◀◀** or **▶▶** to tune in the desired station (**Manual Tuning**).
- Press and hold **◀◀** or **▶▶** until "AUTO" appears in step 2. The frequency indication changes and the scanning stops when the system tunes in a station (**Automatic Tuning**).

To cancel Automatic Tuning

Press **◀◀** or **▶▶**.

## Labelling the preset stations

### — Station Name

You can label each preset station with up to 12 characters (Station Name).

- 1 **Tune the desired station you want to label (see “Listening to the radio” on page 35).**
- 2 **Follow the same procedures as from step 3 to 8 of “Labelling a CD” on page 12.**

To erase the name

- 1 Tune the station.
- 2 Press NAME EDIT/CHARACTER on the remote.
- 3 Press CLEAR on the remote repeatedly to erase the name.
- 4 Press ENTER/YES.

## Using the Radio Data System (RDS)

(European model only)

### What is the Radio Data System?

Radio Data System (RDS) is a broadcasting service that allows radio stations to send additional information along with the regular program signal. This tuner offers convenient RDS features like station name display and location of stations by program type. RDS is available only on FM stations.\*

#### Note

RDS may not work properly if the station you are tuned in is not transmitting the RDS signal properly or if the signal is weak.

\* Not all FM stations provide RDS service, nor do they provide the same types of services. If you are not familiar with the RDS system, check with your local radio stations for details on RDS services in your area.

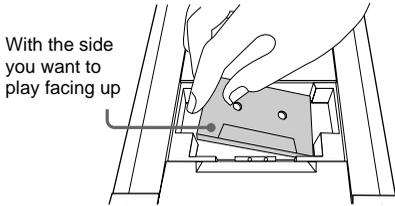
### Receiving RDS broadcasts

#### **Simply select a station from the FM band.**

When you tune in a station that provides RDS services, the station name appears in the display.

## Loading a tape

- 1 **Open the lid with your hand and insert a tape.**



- 2 **Close the lid with your hand.**  
To remove the tape, lift up the tape from the side as shown in the illustration.

## Playing a tape

- 1 **Press FUNCTION repeatedly to switch the function to TAPE.**
- 2 **Press PLAY MODE/DIRECTION repeatedly until  $\rightleftarrows$  appears to play one side or  $\rightleftarrows$  (or  $\rightleftarrows$ \*) to play both sides.**
- 3 **Press TAPE  $\blacktriangleleft \blacktriangleright$  (or  $\blacktriangleright$  on the remote).**  
Press TAPE  $\blacktriangleleft \blacktriangleright$  (or  $\blacktriangleright$  on the remote) again to play the bottom side.

\*1 The tape deck stops automatically after repeating the sequence five times.

To	Do this
Stop play	Press $\blacksquare$ .
Pause	Press $\ \ $ on the remote. Press again to resume play.
Find the succeeding track (AMS*2)	Turn $\blacktriangleleft / \blacktriangleright$ clockwise (or press $\blacktriangleright$ on the remote) for the top side during playback. Turn $\blacktriangleleft / \blacktriangleright$ counterclockwise (or press $\blacktriangleleft$ on the remote) for the bottom side during playback.
Find the preceding track (AMS*2)	Turn $\blacktriangleleft / \blacktriangleright$ counterclockwise (or press $\blacktriangleleft$ on the remote) for the top side during playback. Turn $\blacktriangleleft / \blacktriangleright$ clockwise (or press $\blacktriangleright$ on the remote) for the bottom side during playback.
Fast-forward or rewind	Press $\blacktriangleleft$ or $\blacktriangleright$ .

\*2 The Automatic Music Sensor (AMS) feature detects a blank space of more than four seconds between tracks to locate tracks quickly.

### Tip

The deck cannot identify the tape type, such as TYPE I (normal), TYPE II (CrO<sub>2</sub>) or TYPE IV (metal).

### Notes

- If you do not close the lid, you cannot start playing the tape.
- If you open the lid while playing a tape, the deck stops playing.
- The AMS feature may not work in the following cases:
  - the blank space between tracks is four seconds or less.
  - the TV is too close to the system.

## Recording a CD on a tape

### — CD-TAPE Synchro Recording

- 1 Load a blank tape.
- 2 Load a CD you want to record.
- 3 Press **SYNCHRO MODE** repeatedly until “CD→TAPE SYNC?” appears.
- 4 Press **ENTER/START**.  
The tape deck stands by for recording and the CD player pauses for play.  
When you want to record on the bottom side, press **TAPE** ◀▶.
- 5 Press **PLAY MODE/DIRECTION** repeatedly until ◀▶ appears to record on one side or ▶◀ (or ◀▶) to record on both sides.
- 6 Press **ENTER/START**.  
Recording starts.

To stop recording

Press ■.

Tips

- When you record on both sides, be sure to start from the top side. If you start from the bottom side, recording stops at the end of the bottom side.
- If you select both sides recording and the tape reaches the end of the top side part-way through a track, the entire track is recorded again from the beginning of the bottom side.
- You can record only your favourite CD tracks with Programme Play. After step 2, follow the same procedures as step 1 to 6 in “Programming CD tracks” on page 11. Then go to step 3.

Recording on an MD and a tape at the same time

**Place the CD you want to record. Then, insert a blank tape and a recordable MD. Press SYNCHRO MODE repeatedly until “DUAL SYNC?” appears, then press ENTER/START twice.**

To stop recording

Press ■.

Tips

- Even if the MD or the tape ends part-way through the recording, the other continues recording.
- If you select both sides recording and the tape reaches the end of the top side part-way through a track, the entire track is recorded again from the beginning of the bottom side. In this case, the entire track may also be recorded again on the MD.
- You can record only your favourite CD tracks with Programme Play. After inserting a blank tape and a recordable MD, follow the same procedures as step 1 to 6 in “Programming CD tracks” on page 11. Then press SYNCHRO MODE.

## Recording an MD on a tape

### — MD-TAPE Synchro Recording

- 1 **Load a blank tape.**
- 2 **Load an MD.**
- 3 **Press SYNCHRO MODE repeatedly until “MD→TAPE SYNC?” appears.**
- 4 **Press ENTER/START.**  
The tape deck stands by for recording and the MD deck pauses for play.
- 5 **Press ENTER/START.**  
MD playing and tape recording start.

To stop recording

Press ■.

Tips

- When you record on both sides, be sure to start from the top side. If you start from the bottom side, recording stops at the end of the bottom side.
- If you select both sides recording and the tape reaches the end of the top side part-way through a track, the entire track is recorded again from the beginning of the bottom side.
- You can record only your favourite MD tracks with Programme Play. After step 2, follow the same procedures as step 1 to 5 in “Programming MD tracks” on page 15. Then, go to step 3.

Note

If the tape becomes full during recording, the MD deck and the tape deck stop automatically.

## Recording on a tape manually

### — Manual Recording

You can record just the portions you like from a CD or an MD on a tape. You can also record a radio programme.

The recording level is automatically adjusted.

- 1 **Load a blank tape.**
- 2 **Press FUNCTION repeatedly to select the desired source to record.**
- 3 **Press TAPE REC PAUSE/START.**  
The tape deck stands by for recording. When you want to record on the bottom side, press TAPE ◀▶.
- 4 **Press PLAY MODE/DIRECTION repeatedly until ⇄ appears to record on one side or ⇄ (or ⇄) to record on both sides.**
- 5 **Press TAPE REC PAUSE/START and then start playing the desired source to record.**

Tips

- When you record on both sides, be sure to start from the top side. If you start from the bottom side, recording stops at the end of the bottom side.
- If you select both sides recording and the tape reaches the end of the top side part-way through a track, the entire track is recorded again from the beginning of the bottom side.

## Adjusting the sound

### Enjoying the powerful sound

#### — GROOVE

You can listen to music with more powerful sound.

#### Press GROOVE.

“GROOVE” appears in the display and the volume switches to power mode (DBFB is also turned on).

Press again to cancel GROOVE.

DBFB is also cancelled.

Tip

GROOVE is factory set to on.

### Reinforcing the bass sound

#### — DBFB

You can listen to music with stronger bass tones.

#### Press DBFB\* on the remote.

“DBFB” appears in the display and the bass is reinforced.

Press again to cancel DBFB.

\* DBFB: Dynamic Bass Feedback

Tip

DBFB is factory set to on.

### Selecting the surround effect

#### Press SURROUND on the remote.

“SURROUND” appears in the display.

Press again to cancel SURROUND.

### Adjusting the bass

#### 1 Press BASS/TREBLE.

#### 2 Press ◀◀ or ▶▶ repeatedly to adjust the bass.

You can adjust the bass in 7 steps (from -3 to +3).

### Adjusting the treble

#### 1 Press BASS/TREBLE twice.

#### 2 Press ◀◀ or ▶▶ repeatedly to adjust the treble.

You can adjust the treble in 7 steps (from -3 to +3).

Tip

You can enjoy the original sound by setting BASS and TREBLE to 0.

## Selecting the preset music menu

The audio emphasis menu lets you select the sound characteristics according to the sound you are listening to.

**Press MUSIC MENU repeatedly to select the preset you want.**

The preset name appears in the display. See the chart “Music menu options”.

To cancel the effect

Press MUSIC MENU repeatedly until “FLAT” appears.

Music menu options

“SURROUND” appears if you select an effect with surround effects.

Effect	
ROCK	Standard music sources
POP	
JAZZ	
DANCE	
SOUL	
ACTION	Soundtracks and special listening
DRAMA	situations
GAME	
SF	
FLAT	Cancelling the effect

## Falling asleep to music

### — Sleep Timer

You can set the system to turn off after a certain time, so that you can fall asleep to music.

**Press SLEEP on the remote.**

Each time you press the button, the minute display (the turn-off time) changes cyclically as follows:

SLEEP OFF → AUTO\* → 90min → 80min → ... → 10min

\* The system automatically turns off after the current CD, MD or tape finishes playing (up to 100 minutes).

When the function is TUNER, the system turns off in 100 minutes.

To	Press
Check the remaining time	SLEEP on the remote once.
Change the time to turn off	SLEEP on the remote to select the time you want.
Cancel the Sleep Timer function	SLEEP on the remote repeatedly until “SLEEP OFF” appears.

Note

Do not set to “AUTO” during Synchro Recording on an MD or a tape.

## Waking up to music

### — Daily Timer

You can wake up to music at a preset time. Make sure you have set the clock (see “Setting the time” on page 8).

#### 1 Prepare the sound source you want to play.

- CD: Place a CD. To start from a specific track, make a programme (see “Programming CD tracks” on page 11).
- MD: Insert an MD. To start from a specific track, make a programme (see “Programming MD tracks” on page 15).
- Tape: Insert a tape.
- Radio: Tune in a station (see “Listening to the radio” on page 35).

#### 2 Turn VOLUME (or press VOL+ or – on the remote) to adjust the volume.

#### 3 Press CLOCK/TIMER SET on the remote.

“DAILY SET ?” appears.

#### 4 Press ENTER/YES.

“ON” appears and the hour indication flashes.

#### 5 Set the time to start playing.

Turn ◀◀/▶▶ (or press ◀◀ or ▶▶ on the remote) to set the hour, then press ENTER/YES.

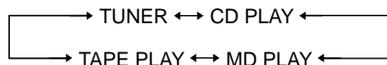
The minute indication flashes.

Turn ◀◀/▶▶ (or press ◀◀ or ▶▶ on the remote) to set the minute, then press ENTER/YES.

#### 6 Set the time to stop playing following the procedure in step 5.

#### 7 Turn ◀◀/▶▶ (or press ◀◀ or ▶▶ on the remote) to select the desired sound source.

The indication changes as follows:



#### 8 Press ENTER/YES.

The start time, the stop time, and the sound source appear in turn, before the original display returns.

#### 9 Press I/⏻ to turn off the system.

To	Do this
Check the setting	Press CLOCK/TIMER SELECT on the remote, then turn ◀◀/▶▶ (or press ◀◀ or ▶▶ on the remote) until “DAILY SELECT?” appears. Then, press ENTER/YES.
Change the setting	Start over from step 1.
Cancel the timer	Press CLOCK/TIMER SELECT on the remote, then turn ◀◀/▶▶ (or press ◀◀ or ▶▶ on the remote) until “TIMER OFF” appears. Then, press ENTER/YES.

#### Notes

- If the system is on about 30 seconds before the preset time, the Daily Timer will not be activated.
- Do not operate the system from the time the system turns on until the play starts (about 30 seconds before the preset time).

## Timer recording radio programmes

To timer record, you must first preset the radio station (see “Presetting radio stations” on page 34) and set the clock (see “Setting the time” on page 8).

- 1 **Tune in the preset radio station (see “Listening to the radio” on page 35).**
- 2 **Press CLOCK/TIMER SET on the remote.**  
“DAILY SET ?” appears.
- 3 **Turn ◀▶ (or press ◀ or ▶ on the remote) to select either “MD REC SET ?” or “TAPE REC SET ?”, then press ENTER/YES.**  
“ON” appears and the hour indication flashes.
- 4 **Set the time to start recording.**  
Turn ◀▶ (or press ◀ or ▶ on the remote) to set the hour, then press ENTER/YES.  
The minute indication flashes.  
Turn ◀▶ (or press ◀ or ▶ on the remote) to set the minute, then press ENTER/YES.
- 5 **Set the time to stop recording following the procedure in step 4.**
- 6 **When you record onto an MD, select STEREO or MONO by turning ◀▶ (or pressing ◀ or ▶ on the remote) then press ENTER/YES.**  
The timer recording settings appear, then the original display returns.

## 7 Insert a recordable MD or tape.

If you use a partially recorded MD, recording starts after the recorded tracks.

If you use a tape, recording starts from the top side. Insert a tape with the side you want to record on facing up.

## 8 Press I/⏻ to turn off the system.

To	Do this
Check the setting	Press CLOCK/TIMER SELECT on the remote and turn ◀▶ (or press ◀ or ▶ on the remote) to select either “MD REC” or “TAPE REC”, then press ENTER/YES.
Change the setting	Start over from step 1.
Cancel the timer	Press CLOCK/TIMER SELECT on the remote and turn ◀▶ (or press ◀ or ▶ on the remote) to select “TIMER OFF”, then press ENTER/YES.

### Tip

When you record from the radio, the station name (see “Labelling the preset stations” on page 36, or frequency when the station is not labelled), the start time and the stop time are automatically recorded on the MD.

### Notes

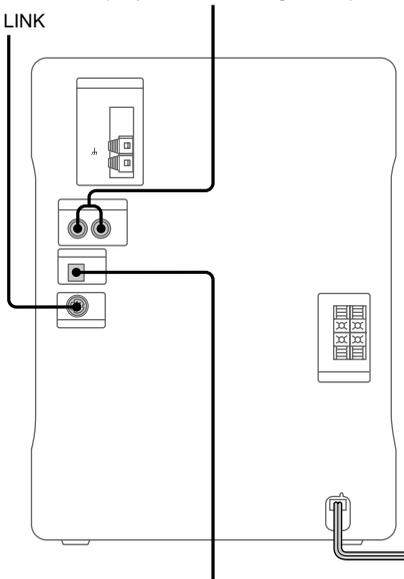
- The Smart Space and Level Synchro Recording functions do not operate.
- Do not operate the system from the time the system turns on until the recording starts (about 30 seconds before the preset time).
- When you record on a brand new MD, the first 15 seconds are not recorded.
- If the system is on about 30 seconds before the preset time, the timer-recording will not be activated.
- The volume is reduced to minimum during recording.

## Hooking up the optional components

You can connect a digital or an analogue component to this system. You can also connect a personal computer to the PC LINK connector and operate the system from the personal computer.

To the audio output jacks of an analogue component

PC LINK



To the digital output jack of a digital component

To	Do this
Make a digital recording from a digital component on an MD*	Connect a digital cable.
Listen to the connected digital component	Press FUNCTION repeatedly to switch the function to OPTICAL IN.
Make an analogue recording from an analogue component on an MD or a tape	Connect the audio cords.
Listen to the connected analogue component	Press FUNCTION repeatedly to switch the function to VIDEO.
Operate the system from a personal computer	Connect the personal computer to the PC LINK connector using a Sony PC connection kit (option) that supports this system.

\* When you record on a tape, analogue recording is performed.

## Precautions

### On operating voltage

Before operating the system, check that the operating voltage of your system is identical with the voltage of your local power supply.

### On safety

- The unit is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the unit itself has been turned off.
- Unplug the system from the mains if it is not to be used for an extended period of time.  
To disconnect the mains lead, pull it out by the plug. Never pull the mains lead itself.
- Should any solid object or liquid fall into the system, unplug the system and have it checked by qualified personnel before operating it any further.
- AC power cord (mains lead) must be changed only at the qualified service shop.
- When you connect the mains lead to the mains, even if the power is off, the system begins charging for remote and timer functions. Therefore the surface of this unit become warm, this is normal.
- 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.

### On placement

- Make sure the system fan is on during use. Place the system in a location with adequate air circulation, and do not place anything on top of the system.
- Place the system in a location with adequate ventilation to prevent heat build up.
- Do not place the system in an inclined position.
- Do not place the system in locations where it is;
  - Extremely hot or cold
  - Dusty or dirty
  - Very humid
  - Subject to vibrations
  - Subject to direct sunlight.

### On installing

When you move the system, remove the CD or MD.

### On operation

- If the system is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lens inside the CD player or the MD deck. Should this occur, the system will not operate properly. Remove the CD or MD and leave the system turned on for about an hour until the moisture evaporates.
- When you move the system, take out any discs.

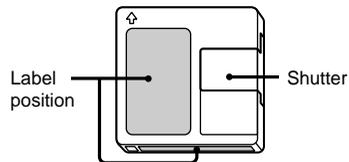
If you have any questions or problems concerning your system, please consult your nearest Sony dealer.

### On the speaker system

This speaker system is not magnetically shielded and the picture on TV sets may become magnetically distorted. In such a case, turn off the power of the TV set once, and after 15 to 30 minutes turn it on again. If there seems to be no improvement, locate the speaker system further away from the TV set. Also, be sure not to place objects in which magnets are attached or used near the speaker system, such as audio racks, TV stands, and toys. These may cause magnetic distortion to the picture due to their interaction with the system.

### Notes on MDs

- If you try to force the shutter open, the disc may be damaged. If the shutter opens, close it immediately without touching the disc inside.
- Affix the label supplied with the disc only to the specified label indentation. Do not affix the label around the shutter or in other locations. Note that the shape of the indentation depends on the disc.



- Wipe the disc cartridge with a dry cloth to remove dirt.
- Do not expose the MD to direct sunlight or heat sources such as hot air ducts, nor leave it in a car parked in direct sunlight.

**continued**

## www.Precisions (continued)

- With the following kinds of CDs, you may experience a reading failure or noise when recorded on an MD:
  - CDs with adhesive labels attached to them
  - Irregularly shaped CDs (for example, heart- or star- shaped)
  - CDs with printed text concentrated on one side only
  - Old CDs
  - Scratched CDs
  - Dirty CDs
  - Warped CDs
- If the following occurs during CD playback or recording, a reading error may occur or noise may be produced in the recorded results:
  - The CD tray or other part of the system is bumped.
  - The system is placed on an uneven or soft surface.
  - The system is located near a speaker, door, or other source of vibration.
- If the above reading errors occur, an extra soundless track may be created. You can erase these extra tracks using Erase Function (see “Erasing recordings” on page 27).

### Notes on CDs

- Before playing, clean the CD with a cleaning cloth. Wipe the CD from the centre out.
- Do not use a CD with tape, seals, or paste on it as this may damage the player.
- Do not use solvents.
- Do not expose the CD to direct sunlight or heat sources.

### Note on CD-R/CD-RW playback

Discs recorded on CD-R/CD-RW drives may not be played back because of scratches, dirt, recording condition or the drive’s characteristics. Besides, the discs, which are not yet finalized at the end of recording, cannot be played back.

### Cleaning the cabinet

Use a soft cloth slightly moistened with mild detergent solution.

Before placing a cassette in the tape deck

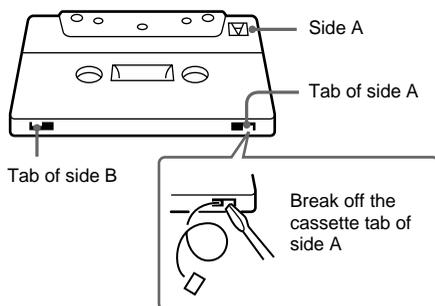
Take up any slack in the tape. Otherwise, the tape may get entangled in the parts of the tape deck and become damaged.

When using a tape longer than 90 minutes

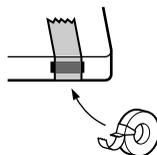
The tape is very elastic. Do not change the tape operations such as play, stop, and fast-winding frequently. The tape may get entangled in the tape deck.

To save a tape permanently

To prevent a tape from being accidentally recorded over, break off the cassette tab from side A or B as illustrated.



If you later want to reuse the tape for recording, cover the broken tab with adhesive tape.



### Cleaning the tape heads

Clean the tape heads after every 10 hours of use. Be sure to clean the tape heads before you start an important recording or after playing an old tape. Use a separately sold dry-type or wet-type cleaning cassette. For details, refer to the instructions of the cleaning cassette.

### Demagnetising the tape heads

Demagnetise the tape heads and the metal parts that have contact with the tape after every 20 to 30 hours of use with a separately sold demagnetising cassette. For details, refer to the instructions of the demagnetising cassette.

## System limitations of MDs

The recording system in your MD deck has the limitations described below.

Note, however, that these limitations are due to the inherent nature of the MD recording system itself, not to mechanical causes.

“Disc Full!” appears before the MD has reached the maximum recording time

When 255 tracks have been recorded on the MD, “Disc Full!” appears regardless of the total recorded time. More than 255 tracks cannot be recorded on the MD. To continue recording, erase unnecessary tracks or use another recordable MD.

“Disc Full!” appears before the maximum number of tracks (255) is reached

Fluctuations in emphasis within tracks are sometimes interpreted as track intervals, increasing the track count and causing “Disc Full!” to appear.

The remaining recording time does not increase even after erasing numerous short tracks

Tracks shorter than 12 seconds\* are not counted, so erasing them may not increase the recording time.

\* During Stereo recording:

In Monaural or LP2 Stereo mode: about 24 seconds

In LP4 Stereo mode: about 48 seconds

“Impossible” appears when you use A-B Erase Function or Combine Function

This happens when you have edited the same track many times. This is due to a technical limitation of the MD system and is not a mechanical error.

Some tracks cannot be combined with others

Track combination may become impossible when repeated editing has been done to the track(s).

The total recorded time and the remaining time on the MD do not add up to the maximum recording time

Recording is done in minimum units of 2 seconds\* each, no matter how short the material. The recorded contents may be shorter than the maximum recording capacity. Disc space may also be reduced by scratches.

\* During Stereo recording:

In Monaural or LP2 Stereo mode: about 4 seconds

In LP4 Stereo mode: about 8 seconds

The sound may drop-out while searching the edited tracks

Tracks created through editing may exhibit sound dropout during searching because high-speed playback requires time to search for the position on the disc when the tracks are not in order.

Track numbers cannot be marked

When “LEVEL-SYNC” (page 21) lights up in the display window during analogue recording, the track numbers may not be marked at the beginning of the track:

- if you repeatedly record the same track on the same disc using 1-track repeat, etc.
- if you record tracks on different discs but which have the same track number in succession.
- if the input signal is below a certain fixed level for less than 2 seconds between tracks.
- if the input signal is below a certain fixed level for more than 2 seconds in the middle of the track.
- if you record a track that is 4 seconds or less\*.

\* During Stereo, Monaural or LP2 Stereo recording mode (In LP4 Stereo recording mode: 8 seconds or less).

continued

## Guide to the Serial Copy Management System

Digital audio components, such as CDs, MDs, and DATs let you copy music easily with high quality by processing music as a digital signal.

To protect the copyrighted music programmes, this system uses the Serial Copy Management System that allows you to make only a single copy of a digitally recorded source through digital-to-digital connections.

You can make only a first generation copy\* through a digital-to-digital connection.

For example:

**1** You can make a copy of a commercially available digital sound programme (for example, a CD or MD), but you cannot make a second copy from the first-generation copy.

**2** You can make a copy of a digital signal from a digitally recorded analogue sound programme (for example, an analogue record or a music cassette tape) or from a digital satellite broadcast programme, but you cannot make a second copy.

\* A first-generation copy means a digital recording of a digital signal made on digital audio equipment. For example, if you record from this system's CD player to the MD deck, you make a first-generation copy.

### Note

This copy management system doesn't apply when you make a recording through analogue-to-analogue connections.

## Troubleshooting

If you have any problem using this system, use the following checklist.

First, check that the mains lead is connected firmly and that the speakers are connected correctly and firmly.

Should any problem persist, consult your nearest Sony dealer.

### General

---

#### **There is no sound.**

- Turn VOLUME clockwise (or press VOL+ or – on the remote).
  - Make sure the headphones are not connected.
  - Check the speaker connections (see page 6).
  - High-Speed CD-MD Synchro Recording is underway.
- 

#### **Sound comes from one channel, or unbalanced left and right volume.**

- Connect the speaker cords properly (see page 6).
  - Place the speakers as symmetrically as possible.
  - Connect only one of the supplied speakers to each set of speaker terminals.
  - Connect the supplied speakers.
- 

#### **There is severe hum or noise.**

- Move the system away from the source of noise.
  - Connect the system to a different mains.
  - Install a noise filter (commercially available) to the mains line.
- 

#### **“0:00” (for the European model) or “12:00 AM” (for other models) flashes in the display.**

- Set the clock again (see page 8).
- 

#### **The timer cannot be set.**

- Set the clock again (see page 8).

---

### The timer does not function.

- Press CLOCK/TIMER SELECT on the remote to set the timer and light up “DAILY” or “REC” in the display (see pages 42 and 43).
- Check the set contents and set the correct time (see pages 42 and 43).
- Cancel the Sleep Timer function (see page 41).
- You cannot activate the Daily Timer and recording timer at the same time.

---

### The remote does not function.

- Remove the obstacle.
- Move the remote closer to the system.
- Point the remote at the system’s sensor.
- Replace the batteries (R6/size AA).
- Locate the system away from the fluorescent light.

---

### “PROTECT” and “PUSH POWER” appear alternately.

- Press I/⏻ (power) to turn off the system. Turn on the system again after a while.

---

## CD Player

---

### The CD tray does not close.

- Place the CD correctly in the centre of the tray.
- Always close the tray by pressing CD 1 – 3 ▲. Trying to press the tray closed with your fingers may cause problems with the CD player.

---

### The CD does not eject.

- Consult your nearest Sony dealer.

---

### Play does not start.

- Open the CD tray and check whether a CD is loaded.
- Wipe the CD clean (see page 46).
- Replace the CD.
- Place the CD correctly in the centre of the tray.
- Place the CD in the tray with the label side up.
- Remove the CD and wipe away the moisture on the CD, then leave the system turned on for a few hours until the moisture evaporates.
- Press CD ►|| to start play.

---

### The sound skips.

- Wipe the CD clean (see page 46).
- Replace the CD.
- Try moving the system to a place without vibration (e.g., on top of a stable stand).
- Try moving the speakers away from the system, or placing them on separate stands.
- When you listen to a track with bass sounds at high volume, the speaker vibration may cause the sound to skip.

---

### Play does not start from the first track.

- Press PLAY MODE/DIRECTION repeatedly until “PGM” or “SHUFFLE” disappears to return to normal play.

---

### “OVER” appears.

- You have reached the end of the CD. Press and hold ◀◀ to return to the desired playing position.

---

## MD Deck

---

### An MD cannot be inserted.

- Insert the MD with the arrow side up and the arrow pointing toward the deck.

---

### The controls do not work.

- Replace the MD with a new one.
- Retry the operations after “TOC” or “STANDBY” turns off.

---

### Play does not start.

- Replace the MD.
- Insert the MD and leave the system turned on for a few hours until the moisture evaporates.
- Press MD ►|| to start play.

---

### The sound skips.

- Replace the MD.
- Try moving the system to a place without vibration (e.g., on top of a stable stand).
- Try moving the speakers away from the system, or placing them on separate stands.  
When you listen to a track with bass sounds at high volume, the speaker vibration may cause the sound to skip.
- Insert the disc and wait for 10 to 20 minutes with the system turned on.

**continued**

---

**Play does not start from the first track.**

- Press PLAY MODE/DIRECTION repeatedly until “PGM” or “SHUFFLE” disappears to return to normal play.

---

**“OVER” appears.**

- You have reached the end of the MD. Press ◀◀ to return to the beginning of the MD.

---

**“OVER” lights red during recording.**

- Adjust the recording level lower (see page 23).

---

**Recording or editing was done, but the TOC is not updated.**

- MD recording and editing contents are recorded to the MD when the MD is removed, so make sure you remove the MD after recording or editing (see pages 17 and 24).

---

**Recording is not possible.**

- Remove the MD and slide the tab to close the slot (see page 17).
- Connect the optional component properly (see page 44).
- Switch to another sound source.
- Replace the MD with a recordable MD, or use the Erase Function to erase unnecessary tracks (see page 27).

---

**The sound from an MD you recorded is too low (or too high).**

- Readjust the recording level (see page 32).
- 

---

## Tape Deck

---

**The tape does not record.**

- No cassette is inserted. Insert a cassette.
- The tab has been removed from the cassette. Cover the broken tab with adhesive tape (see page 46).
- The tape has wound to the end.

---

**The tape does not record or play, or there is a decrease in sound level.**

- The heads are dirty. Clean them.
- The record/playback heads are magnetised. Demagnetise them (see page 46).

---

**The tape does not erase completely.**

- The record/playback heads are magnetised. Demagnetise them (see page 46).

---

**There is excessive wow or flutter, or the sound drops out.**

- The capstans in the tape deck are dirty. Clean them using a cleaning cassette.

---

**Noise increases or the high frequencies are erased.**

- The record/playback heads are magnetised. Demagnetise them (see page 46).
- 

---

## Optional components

---

**There is no sound.**

- Refer to General item “There is no sound.” on page 48 and check the condition of the system.
- Connect the component properly (see page 44) while checking:
  - if the cords are connected properly.
  - if the cord plugs are firmly inserted all the way.
- Turn on the connected component.
- Refer to the operating instructions included with the connected component and start playing.

---

**The sound is distorted.**

- Adjust the recording level (see page 23).
-

---

**Severe hum or noise/stations cannot be received.**

- Set the proper band and frequency (see page 34).
- Connect the aerial properly (see page 6).
- Find a place and an orientation that provide good reception, then set up the aerial again. If you cannot obtain good reception, we recommend you connect a commercially available external aerial.
- The supplied FM lead aerial receives signals along its entire length, so make sure you extend it fully.
- Locate the aerials as far away from the speaker cords as possible.
- Consult your nearest Sony dealer if the supplied AM aerial has come off the plastic stand.
- Try turning off surrounding electrical equipments.

---

**A stereo FM programme cannot be received in stereo.**

- Press STEREO/MONO until “STEREO” appears in the display.
- See “Severe hum or noise/stations cannot be received.”, and check the aerial condition.

---

**Cyclical static noise is heard while recording on an MD.**

- Adjust the aerial orientation and position until the noise stops.
- 

If the system still does not operate properly after performing the above measures, reset the system as follows:

- 1** Disconnect the mains lead.
- 2** Reconnect the mains lead.
- 3** Press I/⏻ to turn on the system.
- 4** Press ■, DISPLAY and CD 1 at the same time.
- 5** Press I/⏻ to turn on the system.

The system is reset to the factory settings. All the settings you made such as the preset stations, clock, timer and CD disc titles are cleared and must be set again.

## Self-diagnosis display

This system has a Self-diagnosis display function to let you know if there is a system malfunction. The display shows a code made up of three letters and a message alternately to show you the problem. To solve the problem refer to the following list. If any problem persists, consult your nearest Sony dealer.

### C11/Protected

The MD is protected against erasure.

- Remove the MD and slide the tab to close the slot (see page 17).

### C12/Cannot Copy

You tried to record a CD or MD with a format that the system does not support, such as a CD-ROM.

- Remove the disc and turn off the system once, then turn it on again.

### C13/REC Error

Recording could not be performed properly.

- Move the system to a stable place, and start recording over from the beginning.

The MD is dirty or scratched, or the MD does not meet the standards.

- Replace the MD and start recording over from the beginning.

### C13/Read Error

The MD deck cannot read the disc information properly.

- Remove the MD once, then insert it again.

### C14/Toc Error

The MD deck cannot read the disc information properly.

- Replace the MD.
- Erase all the recorded contents of the MD using the All Erase function on page 27.

### C41/Cannot Copy

The sound source is a copy of a commercially available music software, or you tried to record a CD-R (Recordable CD).

- The Serial Copy Management System prevents making a digital copy (see page 48). You cannot record a CD-R.

### E0001/MEMORY NG

There is an error in the internal data that the system needs in order to operate.

- Consult your nearest Sony dealer.

### E0101/LASER NG

There is a problem with the optical pickup.

- The optical pickup may have failed. Consult your nearest Sony dealer.

## Messages

One of the following messages may appear or flash in the display during operation.

### MD

#### Auto Cut

The MD deck is pausing the recording because silence continued for 30 seconds or more during digital recording.

#### Blank Disc

The inserted recordable MD is new, or all tracks on the MD have been erased.

#### Cannot Edit

- A pre-mastered MD is in the deck.
- You tried to edit in Programme or Shuffle Play mode.

#### Cannot REC

- A pre-mastered MD is in the deck.
- The function is switched to MD.

#### Cannot SYNC!

- There is no disc in the MD deck, or the MD is protected against erasure.
- There is no time remaining on the MD.

---

**Complete!**

The editing operation of MDs is completed.

---

**Disc Full!**

There is no time remaining on the MD.

---

**Eject**

The MD deck is ejecting the MD.

---

**Impossible**

- You tried to make an impossible editing operation.
  - You cannot combine or erase the tracks due to the system limitations of MDs.
  - You cannot specify the division point at the beginning or end of a track.
- 

**Name Full**

There is no more space to store track or disc titles.

---

**No Change**

While attempting to change the recording level after recording, you pressed ENTER/YES without actually changing the recording level, so no change was made.

---

**No Disc**

There is no disc in the MD deck.

---

**No Name**

You tried to show the title of a non-labelled disc or track.

---

**OVER**

You have reached the end of the MD while pressing ►► during playing pause.

---

**Program Full !**

You tried to programme 26 or more tracks (steps).

---

**Push STOP!**

You pressed PLAY MODE/DIRECTION during play.

---

**Rehearsal**

The MD is playing the specified dividing point for confirmation during the Divide function.

---

---

**S.F Edit!**

You attempted to perform another operation while in S.F Edit (changing the recording level after recording, Fade-in, Fade-out) mode.

---

**S.F Edit NOW**

You pressed I/⏻ while in S.F Edit (changing the recording level after recording, Fade-in, Fade-out) mode.

---

**Smart Space**

The signal was input again after silence continued for 3 or more but less than 30 seconds during digital recording.

---

**Standby (flashing)**

The timer settings have disappeared over time and are not available for saving to disc, or Program Play could not be activated since the program has disappeared over time.

---

**Text Protect**

There is CD TEXT information which cannot be recorded on the MD.

---

**TOC Reading**

The MD deck is reading the TOC information of the MD.

---

**TOC Writing**

The MD deck is writing the information of recorded or edited contents.

---

**Track End**

You have reached the end of the track while adjusting the dividing point during the Divide function.

---

continued

**CD****Cannot Edit**

You tried to label a CD TEXT disc.

**Name Full**

There are already 50 disc titles stored in the system.

**No Disc**

There is no CD in any of CD 1 – 3.

**OVER**

You have reached the end of the CD while pressing ►► during play or pause.

**Push STOP!**

You pressed PLAY MODE/DIRECTION during play.

**Step Full!**

You tried to programme 26 or more tracks (steps).

**TAPE****CANNOT SYNC!**

There is no tape in the tape deck, or the tab has been removed from the cassette.

**No Tab**

You cannot record the tape because the tab has been removed from the cassette.

**No Tape**

There is no tape in the tape deck.

**Open**

You performed a tape operation with the tape deck lid not completely shut.

**Specifications****Main Unit (HCD-CL5MD)****Amplifier section**

European model:

DIN power output (Rated): 40 + 40 watts  
(6 ohms at 1 kHz, DIN)

Continuous RMS power output (Reference):

50 + 50 watts  
(6 ohms at 1 kHz, 10% THD)

Music power output (Reference):

95 + 95 watts  
(6 ohms at 1 kHz, 10% THD)

Other models:

DIN power output (Rated): 40 + 40 watts  
(6 ohms at 1 kHz, DIN)

Continuous RMS power output (Reference):

50 + 50 watts  
(6 ohms at 1 kHz, 10% THD)

Inputs

VIDEO (AUDIO) IN (phono jacks):  
voltage 250 mV,  
impedance 47 kilohms

CD DIGITAL IN (Supported sampling frequencies:  
32 kHz, 44.1 kHz and 48 kHz)

Outputs

PHONES (stereo minijack):

accepts headphones of  
8 ohms or more.

SPEAKER:

accepts impedance of 6 to  
16 ohms.

**CD player section**

System

Compact disc and digital  
audio system

Laser

Semiconductor laser  
( $\lambda=795$  nm)

Emission duration:  
continuous

Laser output

Max. 44.6  $\mu$ W\*

\* 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.

Frequency response

20 Hz – 20 kHz ( $\pm 0.5$  dB)

## MD deck section

System	MiniDisc digital audio system
Laser	Semiconductor laser ( $\lambda=780$ nm) Emission duration: continuous
Sampling frequency	44.1 kHz
Frequency response	20 Hz – 20 kHz ( $\pm 0.5$ dB)

## Tape deck section

Recording system	4-track 2-channel stereo
Frequency response	40 – 13,000 Hz ( $\pm 3$ dB), using Sony TYPE I cassettes
Wow and flutter	$\pm 0.15\%$ W. Peak (IEC) 0.1% W. RMS (NAB) $\pm 0.2\%$ W. Peak (DIN)

## Tuner section

FM stereo, FM/AM superheterodyne tuner	
FM tuner section	
Tuning range	87.5 – 108.0 MHz (50 kHz step)
Aerial	FM lead aerial
Aerial terminals	75 ohms unbalanced
Intermediate frequency	10.7 MHz
AM tuner section	
Tuning range	
European model:	531 – 1,602 kHz (with the interval set at 9 kHz)
Other models:	531 – 1,602 kHz (with the interval set at 9 kHz) 530 – 1,710 kHz (with the interval set at 10 kHz)
Aerial	AM loop aerial
Intermediate frequency	External aerial terminals 450 kHz

## Speaker (SS-SCL5)

Speaker system	2-way, bass-reflex type
Speaker units	
Woofer:	17 cm dia., cone type
Tweeter:	5 cm dia., cone type
Nominal impedance	6 ohms

## General

Power requirements	
European model:	230 V AC, 50/60 Hz
Australian and New Zealand models:	230 – 240 V AC, 50/60 Hz
Other models:	120 V, 220 V, 230 – 240 V AC, 50/60 Hz
	Adjustable with voltage selector
Power consumption	
European model:	100 watts 0.5 watts (at the Power Saving Mode)
Other models:	100 watts
Dimensions (w/h/d) incl. projecting parts and controls	
Amplifier/Tuner/Tape/MD/CD section:	Approx. 215 × 285 × 421 mm
Speaker:	Approx. 210 × 285 × 260 mm
Mass	
Amplifier/Tuner/Tape/MD/CD section:	Approx. 8.6 kg
Speakers:	Approx. 3.8 kg net per speaker
Supplied accessories	Remote (1) R6 (size AA) batteries (2) AM loop aerial (1) FM lead aerial (1) Speaker pads (8)
Design and specifications are subject to change without notice.	

