SONY®

Mini HiFi Component System

Operating Instructions

COMPACT
disc
DIGITAL AUDIO
TEXT

Mini Disc

MD**LP**

DHC-NX5MD

WARNING

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

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

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

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

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.

CAUTION : INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.
ADVARSEL : USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSAETTELSE FOR STRÅLING.
VORSICHT : UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET UND SICHEREITSVERRIEGELUNG ÜBERBRÜCKT. NICHT DEM STRAHL AUSSETZEN.
VARO! : AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALT-TIINA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VARNING : OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD, BETRAKTA EJ STRÅLEN.
ADVERSEL : USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES OG SIKKERHEDSLÅS BRYTES. UNNGÅ EKSPONERING FOR STRÅLEN.
VIGYAZAT! : A BURKOLAT NYITÁSAKOR LÁTHATATLAN LÉZERSU-GÁRVESZÉLY! KERÜLJE A BESUGÁRZÁST!

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.

CAUTION

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

The DHC-NX5MD consist of the following components:
– A/V control amplifier STR-NX5MD
– CD player/MD deck HMC-NX5MD
– Speaker system SS-NX1

Table of Contents

Getting Started

Basic Operations

The CD Player

The MD Deck — Play

The MD Deck — Recording

The MD Deck — Editing

Sound Adjustment

Other Features

Connecting optional components

Additional Information

* European model only

3

Step 1: Hooking up the system

Perform the following procedure **1** to **5** to hook up your system using the supplied cords and accessories.

If you set up the stereo system vertically

Be sure to place the A/V control amplifier on top of the CD player/MD deck.

FM aerial

AM loop aerial

Front speaker (Right)

Front speaker (Left)

4
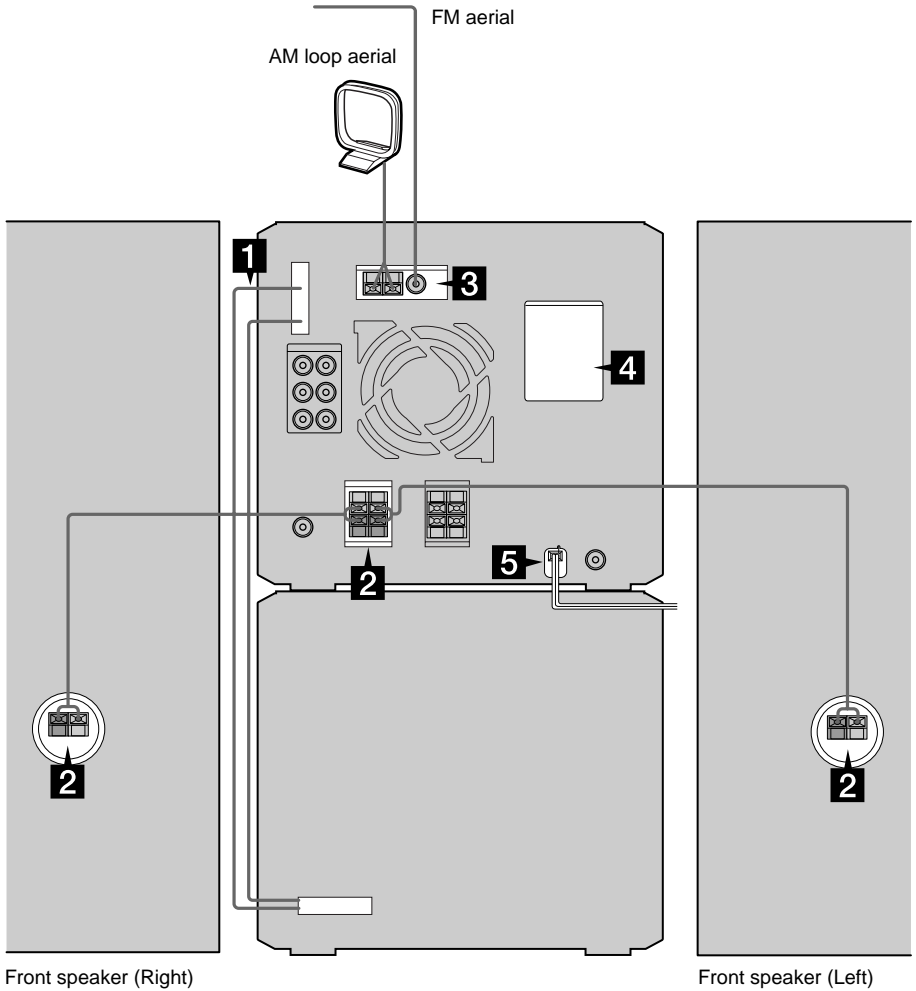
1 Connect the flat cord to the SYSTEM CONTROL connectors until it clicks.

To disconnect
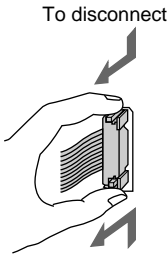
2 Connect the front speakers.

Connect the speaker cords to the FRONT SPEAKER terminals as shown below.

Keep the speaker cords away from the aerials to prevent noise.

Insert only the stripped portion.

R   L

Red/
Solid (⊕)

Black/Stripe (⊖)
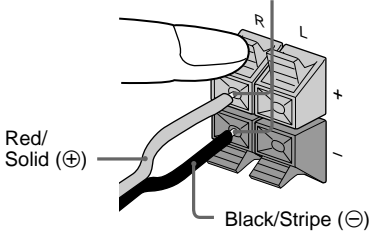
3 Connect the FM/AM aerials.

Set up the AM loop aerial, then connect it.

Jack type Ⓐ

AM loop aerial

Extend the FM lead aerial horizontally.

AM ⊥   FM 75 Ω
COAXIAL

Jack type Ⓑ

AM loop aerial

Extend the FM lead aerial horizontally.

AM ⊥ ⊥ FM 75Ω

Note

Set up the AM loop aerial as far as possible from the main unit.

5

4 For models with a voltage selector, set VOLTAGE SELECTOR to the local power line voltage.
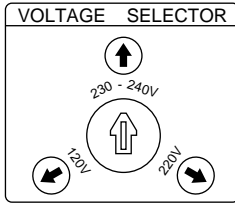
5 Connect the mains lead to a wall outlet.

The demonstration appears in the display. When you press I/$\circlearrowleft$, the system turns on and the demonstration automatically ends.

If the plug does not fit the wall socket, detach the supplied plug adaptor (only for models equipped with an adapter).

To deactivate the demonstration

When you set the time (see page 7), the demonstration is deactivated.

To activate/deactivate the demonstration again, press DISPLAY (European model) or DEMO (STANDBY) (other models) while the system is off.

Tip

You can reinforce the bass sound by connecting an optional super woofer to the SUPER WOOFER OUT connector.

To attach the front speaker pads

Attach the supplied front speaker pads to the bottom of the speakers to stabilize the speakers and prevent them from slipping.
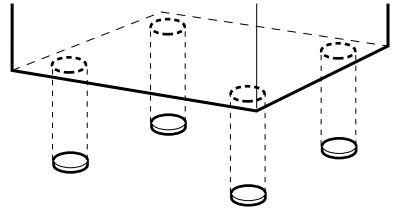
Inserting two R6 (size AA) batteries into the remote
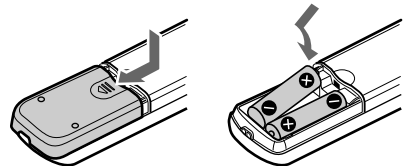
Tip

With normal use, the batteries should last for about six months. When the remote no longer operates the system, replace both batteries with new ones.

Notes

- If you do not use the remote for a long period of time, remove the batteries to avoid possible damage from battery leakage.
- Be sure to insert the batteries in correct direction.
- Do not mix new batteries with old ones.
- Do not use different types of batteries together.
- Do not use a battery that is leaking.
- If the battery leaks, clean the battery compartment and replace all the batteries with new ones.

When carrying this system

Do the following to protect the CD mechanism.

1 Press CD (or FUNCTION on the remote repeatedly) until "CD" appears in the display.
2 Keep pressing ENTER and press I/$\circlearrowleft$ so that "LOCK" appears in the display.

Step 2: Setting the time

You must set the time beforehand to use the timer functions.
The clock is on a 24-hour system for the European model, and a 12-hour system for other models. The 24-hour system is used for illustration purposes.
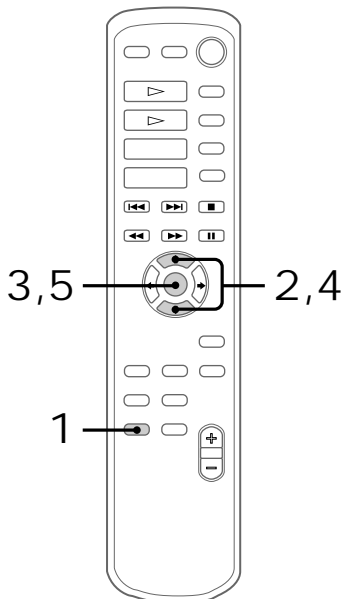
1 Press CLOCK/TIMER SET.

The hour indication flashes.

$$-\underset{\sim}{0}\!:\!00$$
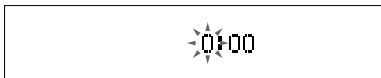
2 Press ▲ or ▼ to set the hour.

3 Press ENTER.

The minute indication flashes.

$$10\!:\!\underset{\sim}{0}\overset{\wedge}{0}-$$
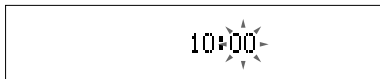
4 Press ▲ or ▼ to set the minute.

5 Press ENTER.

The clock starts.

Tips

• If you've made a mistake, start over from step 1.
• Setting the time deactivates the demo mode.
  If you want to display the demo mode, press DISPLAY (European model) or DEMO (STANDBY) (other models) when the power is off.

To change the time

The previous explanation shows you how to set the time while the power is off. To change the time while the power is on, do the following:

1 Press CLOCK/TIMER SET.
2 Press ▲ or ▼ to select the SET CLOCK.
3 Press ENTER.
4 Perform steps 2 through 5 above.

Note

The clock settings are cancelled when you disconnect the mains lead or if a power failure occurs.

7

Step 3: Presetting radio stations

You can preset the following number of stations: 20 for FM, 10 for AM.
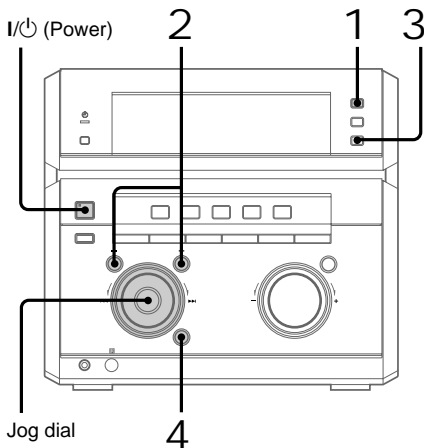
I/⏻ (Power)

Jog dial

1 Press TUNER BAND repeatedly until the band you want appears in the display.

Every time you press this button, the band changes as follows:

FM ←→ AM

2 Press and hold + or –.

The frequency indication changes and the scanning stops when the system tunes in a station. "TUNED" and "STEREO" (for a stereo programme) appear.
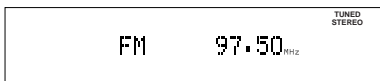
3 Press TUNER MEMORY.

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

Preset number
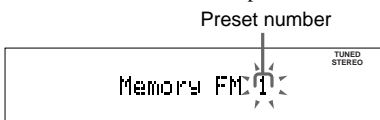
4 Press ENTER.

"Complete!" appears and the station is stored.

5 Repeat steps 1 to 4 to preset other stations.

To tune in a station with a weak signal

Press + or – repeatedly in step 2 to tune in the station manually.

To set another station to the exist preset number

Start over from step 1. After step 3, turn the jog dial to select the preset number on which you want to store the station.

To erase a preset station

1 Keep pressing TUNER MEMORY until a preset number flashes in the display.
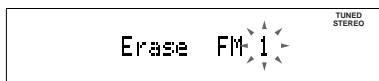
2 Turn the jog dial to select the preset number you want to erase.

Select "All Erase" when you want to erase all the preset stations.

3 Press ENTER.

"Complete!" appears.

When you erase a preset number, the preset number decreases by one and all preset numbers following the erased one are renumbered.

To change the AM tuning interval (except for 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 down the TUNER MEMORY, turn the system back on. When you change the interval, all AM preset stations are erased. To reset the interval, repeat the same procedure.

Tip

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

Saving the power in standby mode

(European model only)

You can lower the power consumption to a minimum (Power Saving Mode) and save energy in the standby mode.

I/⏻
(Power)   DISPLAY

POWER SAVE/DEMO
    (STANDBY)
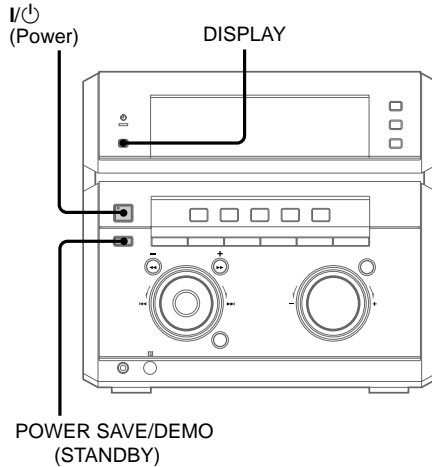
➔ Press POWER SAVE/DEMO (STANDBY) when the system is off.

The system switches to the Power Saving Mode and the clock display disappears.
The system is turning on/off by pressing I/⏻.

To cancel the Power Saving Mode

Press DISPLAY.

The clock display appears.

9

Saving the power in standby mode (continued)

Tips
- Each time you press POWER SAVE/DEMO (STANDBY) in the Power Saving Mode, the display switches between the Power Saving Mode and the demo mode.
- I/⏻ indicator and timer indicator (when the timer is set) light up even in the Power Saving Mode.
- The timer works in the Power Saving Mode.

Notes
- You cannot set the time in the Power Saving Mode.
- One Touch Play function does not work in the Power Saving Mode.

Playing a CD — Normal play

You can play up to five CDs in a row.

Jog dial   CD ▷ CD ❙❙ CD ☐ **2**   **1**
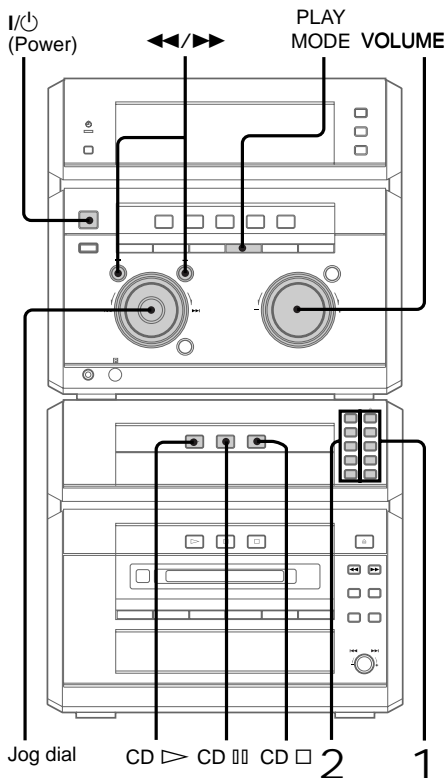
1 Press one of the CD 1 – 5 ⏏ and place a CD on the disc tray.

If a disc is not placed properly it will not be recognized.

With the label side up. When you play a CD single (8 cm CD), place it on the inner circle of the tray.
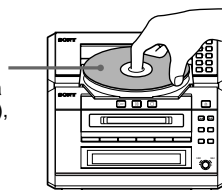
Press the same button to close the disc tray. To insert other CDs, press ⏏ of other numbers to open the disc tray.

10

2 Press one of the DISC 1 – 5.

The disc tray closes and play starts.

If you press CD $\rhd$, play starts from the CD loaded on the tray whose number appears in the display.

Disc tray number   Playing time

CD1-1.   0.24

Track number

To	Do this
Stop play	Press CD □.
Pause	Press CD ⅡⅡ. Playing time starts flashing. Press again to resume play.
Select a track	During play or pause, turn the jog dial clockwise (to go forward) or counterclockwise (to go back) and release it when you reach the desired track.
Find a point in a track	Press and hold down CD ◄◄ or ►► during play and release it at the desired point.
Select a CD in stop mode	Press one of the DISC 1 – 5 (or press D.SKIP on the remote).
Play only the CD you have selected	Press PLAY MODE repeatedly in stop mode until "1 DISC" appears.
Play all CDs	Press PLAY MODE repeatedly in stop mode until "ALL DISCS" appears.
Remove the CD	Press one of the CD 1 – 5 ⌅.
Change other CDs while playing a CD	Press one of the CD 1 – 5 ⌅ to open the tray that contains the CD that you want to change. When you change the CD, press the same button to close the tray. While the tray is open, the DISC 1 – 5 indicator for that tray flashes orange.
Adjust the volume	Turn VOLUME.

Tips

- Pressing CD $\rhd$ when the system is off automatically turns on the system and starts CD play if there is a CD on the disc tray (**One Touch Play**).

  When the system is in the Power Saving Mode, the One Touch Play function does not work.
- You can switch from another source to the CD player and start playing a CD just by pressing CD $\rhd$ or the DISC 1 – 5 (**Automatic Source Selection**).
- If there is no CD in the player, "CD No Disc" appears in the display.

Note

Do not push the disc tray to close it, as this may damage the CD player. Press CD 1 – 5 ⌅ to close the disc tray.

Getting Started/Basic Operations

Recording a CD on an MD

You can make a digital recording of a CD on an MD, marking track numbers in the same sequence as the original CD.

You can also record a programme of favourite tracks (see page 28).

To turn on the system, press I/⏻ (power).
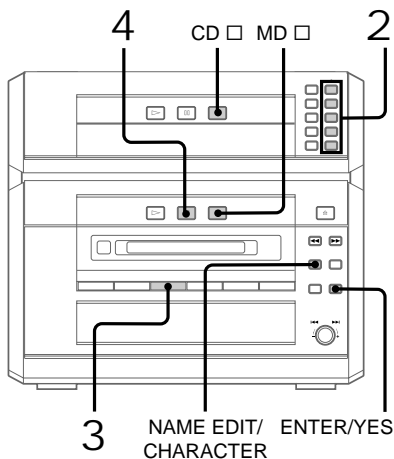
1 Insert a recordable MD.

With the label side up, and the shutter on the righthand side

With the arrow pointing toward the deck
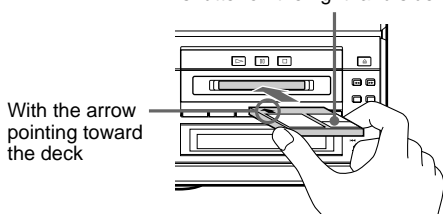
2 Press one of the CD 1 – 5 ⏏ and place a CD.

Then press again to close the disc tray.

With the label side up. When you play a CD single (8cm CD), place it on the inner circle of the tray.
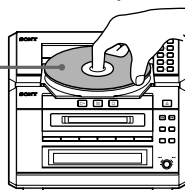
3 Press CD SYNC NORMAL.

To record at high speed, press CD SYNC HIGH.

"×1" ("×2" for high speed recording) appears in the display. "MD New Track" and remaining recordable time on the MD appear alternately.

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

4 Press MD ⅠⅠ.

Recording starts. You cannot pause recording during CD-MD Synchro Recording. When the recording is completed, the CD player and the MD deck stop automatically.

To stop recording

Press CD □ or MD □.

Tips

- If you use a partially recorded MD, recording starts after the recorded tracks.
- The track numbers of the CD are recorded on to the MD automatically.
- Depending on the disc, CD TEXT information may also be recorded. If "CD TEXT" flashes during recording, press NAME EDIT/CHARACTER, and then press ENTER/YES to record the title of the current track. (If "CD TEXT" is lit, it is automatically recorded.)

If the MD becomes full during recording

The CD player and the MD deck stop automatically.

Notes

- If the play mode is set to the Repeat or Shuffle Play, it automatically switches to normal play at step 3.
- If the MD is record protected, "C11" and "Protected" appear alternately and the MD cannot be recorded. Remove the MD, then slide the record protection tab to the closed position (see page 27).
- If "Retry" flashes in the display, a reading failure has occurred, and the system is trying to read the data again (see page 14).
- Auto Cut function will not operate during Synchro-recording.

Recording a CD on an MD at high speed

— High-Speed CD-MD Synchro Recording

This function allows you to record a CD on an MD at twice the speed of normal CD-MD Synchro Recording.
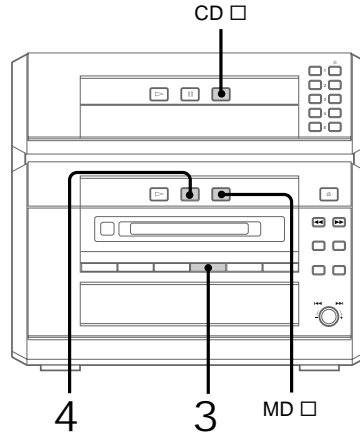
1 Insert a recordable MD.

2 Place a CD that you want to record.

To record tracks in the order you programmed, press PLAY MODE repeatedly until "PROGRAM" appears. (If you have not made a programme, see page 20.)

3 Press CD SYNC HIGH SPEED.

"×2" appears in the display. "MD New Track" and remaining recordable time on the MD appear alternately.

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

4 Press MD ▯▯.

High-speed recording starts. **You cannot monitor the recorded signal nor pause during recording.** When the recording is completed, the CD player and the MD deck stop automatically.

13

Recording a CD on an MD at high speed (continued)

To stop recording

Press CD □ or MD □.

If "Retry" flashes in the display after you press MD ❙❙ in step 4

A reading failure has occurred, and the MD deck is trying to read the data again.

- If the retry was successful, the MD deck continues with High-Speed CD-MD Synchro Recording. In this case, "×2" lights up in the display.
- If the condition of the inserted CD or the MD deck 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 in normal CD-MD Synchro Recording. Note that monitoring of the recorded signal is not possible when this occurs.

Notes

- You cannot record over existing material during High-Speed CD-MD Synchro Recording. The MD deck automatically starts recording from the end of the existing material.
- Make sure that the remaining recordable time on the MD is longer than the playing time of the CD, especially if you want to record all the tracks on the CD.
- You cannot pause recording during High-Speed CD-MD Synchro Recording. If you pause or stop recording, a track that was recorded only partially is not recorded to the MD.
- If the play mode is set to the Repeat or Shuffle Play, it automatically switches to normal play at step 3.
- The following items are either inoperative or cannot be used during High-Speed CD-MD Synchro-Recording:
  — The Auto Cut Function
  — Recorded signal monitoring
- With the following kinds of CDs, you may experience a reading failure or noise when recorded to 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, a extra soundless track may be created. You can erase these extra tracks using the edit function of the MD deck (see page 43).

14

Playing an MD

To turn on the system, press **I/**⏻ (power). You can play an MD just like a CD.

**I/**⏻ (Power)   VOLUME   MD ⏏

MD ‖‖   **2**   MD □   MD JOG   MD ◄◄/►►
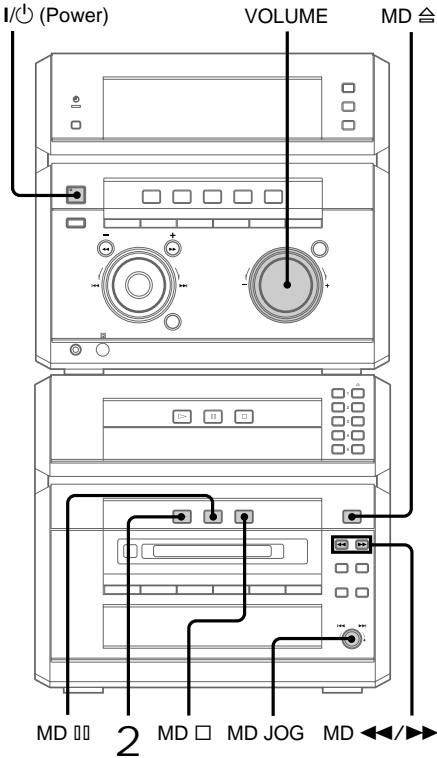
1 Insert an MD.

With the label side up, and the shutter on the righthand side

With the arrow pointing toward the deck
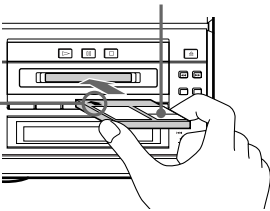
2 Press MD ▷.

Play starts.


```
▷        TRACK
         MD  3           0.35      L-SYNC
```

Track number   Playing time

To	Do this
Stop play	Press MD □.
Pause	Press MD ‖‖. Press again to resume play.
Select a track	During play or pause, turn MD JOG clockwise (to go forward) or counterclockwise (to go back) and release it when you reach the desired track.
Find a point in a track	Press and hold MD ◄◄ or ►► during play and release it at the desired point.
Remove the MD	Press MD ⏏.
Adjust the volume	Turn VOLUME.

Tips

- Pressing MD ▷ when the system is off automatically turns on the system and starts MD play if there is an MD in the system (**One Touch Play**).
  When the system is in the Power Saving Mode, the One Touch Play function does not work.
- You can switch from another source to the MD deck and start playing an MD just by pressing MD ▷ (**Automatic Source Selection**).

Note

Do not use an MD on which the label sticks out from the edge or on which the label is not positioned correctly. Such labels can cause the MD deck to malfunction.

Basic Operations

15

Listening to the radio

— Preset Tuning

Preset radio stations in the tuner's memory first (see page 8).
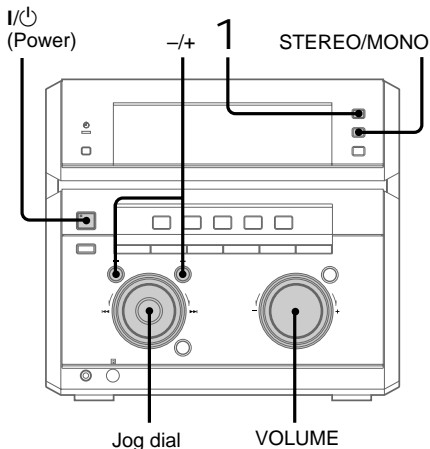
Jog dial   VOLUME

1 Press TUNER BAND repeatedly until the band you want appears in the display.

Every time you press the button, the band changes as follows:

FM ←→ AM

2 Turn the jog dial to tune in the desired preset station.

Turn counter-clockwise for lower preset numbers.

Turn clockwise for higher preset numbers.

Preset number   Frequency

FM 1   95.50 MHz

TUNED
STEREO
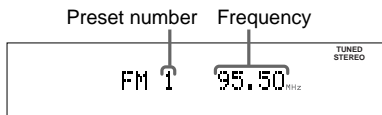
When only one station is preset, "One Preset" appears in the display.

To	Do this
Turn off the radio	Press I/⏻ (power).
Adjust the volume	Turn VOLUME.

To listen to non-preset radio stations

Use manual or automatic tuning. For manual tuning, press – or + repeatedly. For automatic tuning, press and hold – or +.

Tips
• Pressing TUNER BAND when the system is off automatically turns on the system and tunes in the last received station (**One Touch Play**). When the system is in the Power Saving Mode, the One Touch Play function does not work.
• You can switch from another source to the tuner just by pressing TUNER BAND (**Automatic Source Selection**).
• When an FM stereo programme has static noise, press STEREO/MONO until "MONO" appears in the display. There will be no stereo effect, but the reception will improve. Press the button again to restore the stereo effect.
• To improve broadcast reception, reorient the supplied aerials.

Recording from the radio — Manual Recording

You can analog record a radio programme on an MD. If you use a partially recorded MD, recording starts after the recorded tracks. To erase the recorded contents, see "Erasing recordings" on page 43.

To turn on the system, press I/⏻ (power).
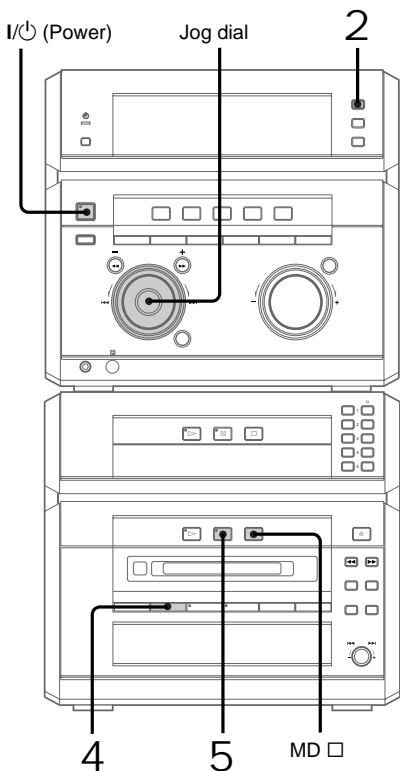
I/⏻ (Power)   Jog dial   **2**

4   5   MD □

1 Insert a recordable MD.

With the label side up, and the shutter on the righthand side

With the arrow pointing toward the deck
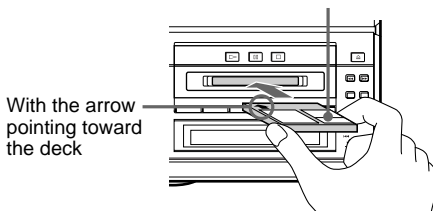
2 Press TUNER BAND to select the band you want.

**3** Turn the jog dial to tune in a preset station.

Turn counter-clockwise for lower preset numbers.   Turn clockwise for higher preset numbers.

Preset number   Frequency

FM 1   95.50 MHz   TUNED STEREO
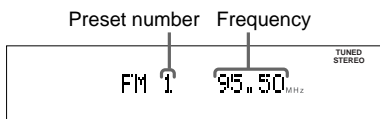
4 Press REC/REC IT.
The MD deck stands by for recording.

5 Press MD ⅠⅠ.
Recording starts.

To stop recording
Press MD □.

17

Recording from the radio (continued)

Tips
• If noise is heard while recording an AM radio programme, move the AM loop aerial to reduce the noise or connect a ground wire to the ⏚ terminal (see page 68).
• You can record the MD in monaural format. For details, see "Monaural recording" on page 39.
• You can adjust the recording level to the desired volume (see page 37).

Note
If the MD is record protected, "C11" and "Protected" appear alternately and the MD cannot be recorded. Remove the MD, then slide the record protection tab to the closed position (see page 27).

The CD Player

Playing CD tracks repeatedly — Repeat Play

This function lets you repeat a CD or all CDs in normal play, Shuffle Play and Programme Play.

I/⏻ (Power)   **2**   PLAY MODE   **1**
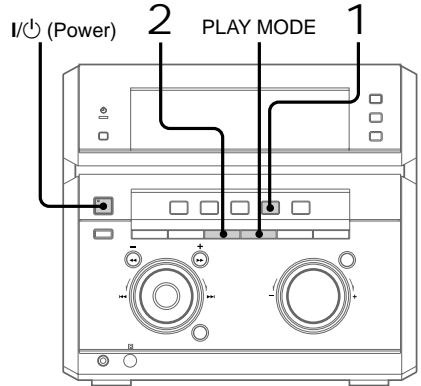
1 Press CD to switch the function to CD.

2 Press REPEAT/PTY (European model) or REPEAT (other models) during play until "REPEAT" appears in the display.

Repeat Play starts. Do the following procedure to change the repeat mode.

To repeat	Press
All the tracks on the current CD up to five times	PLAY MODE repeatedly in stop mode until "1 DISC" appears in the display.
All the tracks on all CDs up to five times	PLAY MODE repeatedly in stop mode until "ALL DISCS" appears in the display.
Only one track	REPEAT repeatedly until "REPEAT 1" appears in the display while playing the track you want to repeat.

To cancel Repeat Play

Press REPEAT/PTY (European model) or REPEAT (other models) until "REPEAT" or "REPEAT 1" disappears.

Note

ALL DISCS repeat cannot be used during Shuffle Play.

Playing CD tracks in random order — Shuffle Play

You can play all the tracks on a CD or all CDs in random order.

DISC 1 – 5
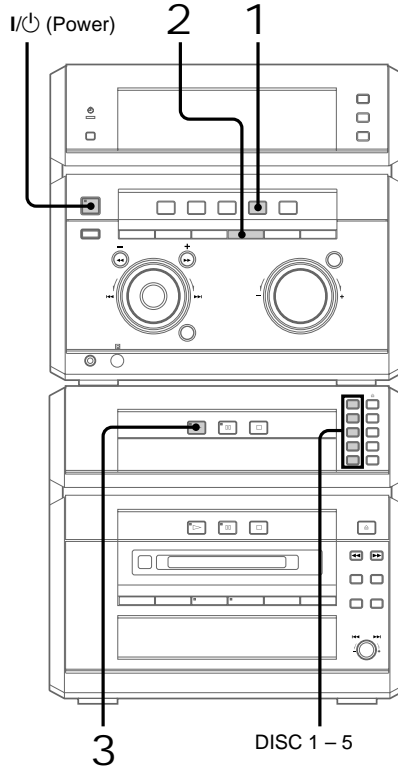
1 Press CD to switch the function to CD.

2 Press PLAY MODE repeatedly until "1 DISC SHUFFLE" or "ALL DISCS SHUFFLE" appears in the display.

"ALL DISCS" shuffles all the CDs in the player. "1 DISC" shuffles the currently selected CD.

3 Press CD ▷.

Shuffle Play starts.

continued

Playing CD tracks in random order (continued)

To cancel Shuffle Play

Press CD □ to stop Shuffle Play, then press PLAY MODE repeatedly until "SHUFFLE" and "PROGRAM" disappear.

To select a desired CD

Press DISC 1 – 5.

Tip

To skip a track, turn the jog dial clockwise.

Note

You cannot change PLAY MODE during Shuffle Play.

Programming CD tracks

— Programme Play

You can make a programme of up to 25 steps from all the CDs in the order you want them to be played.
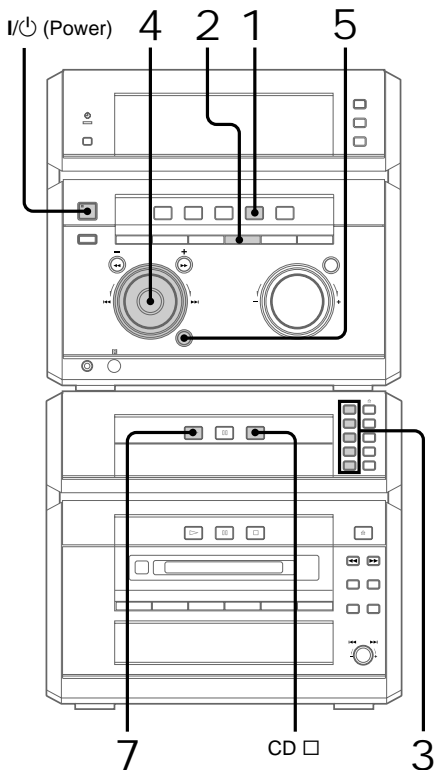
I/⏻ (Power)   **4 2 1   5**

7   CD □   **3**

20

1 Press CD to switch the function to CD.

2 Press PLAY MODE repeatedly until "PROGRAM" appears in the display.

3 Press one of the DISC 1 – 5 to select a CD.

4 Turn the jog dial until the desired track appears.

To programme all the tracks on a CD at once, turn the jog dial to select "AL".
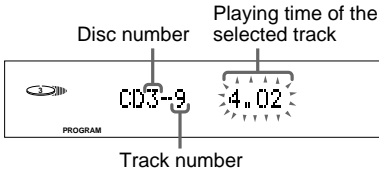
Disc number | Playing time of the selected track

PROGRAM

Track number

5 Press ENTER.

The track is programmed. The step number appears, followed by the number of the last programmed track and the total playing time of the programme.

Total playing time

PROGRAM

Last programmed track
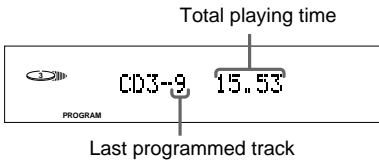
6 To programme additional tracks, repeat steps 3 to 5.

Skip step 3 to select tracks from the same disc.

7 Press CD ▷.

Programme Play starts.
All the tracks play in the order you selected.

To cancel Programme Play

Press PLAY MODE repeatedly until "PROGRAM" and "SHUFFLE" disappear.

To	Press
Check the programme	CHECK on the remote repeatedly in stop mode. After the last track, "Check End" appears.
Clear a track from the end	CLEAR on the remote in stop mode.
Clear a specific track	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	**1** Select the disc tray with a DISC 1 – 5 button. **2** Select the track by turning the jog dial. **3** Press ENTER.

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.

Note
You cannot change PLAY MODE during Programme Play.

The CD Player

21

Using the CD display

You can check the total number of tracks, the total playing time and the remaining time on the current track or on the CD. When a CD TEXT disc is loaded, you can check the information recorded on the disc, such as the titles or artist names.
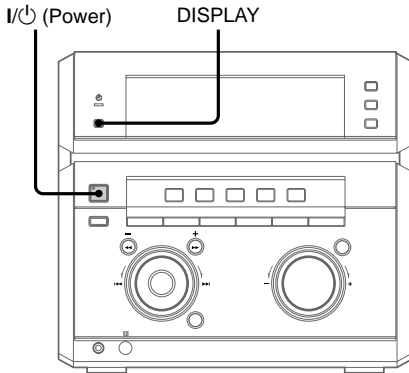
I/⏻ (Power)   DISPLAY

➡ Press DISPLAY.

Each time you press the button during normal play or in stop mode, the display changes as follows:

During normal play

Elapsed playing time on the current track
↓
Remaining time on the current track
↓
Remaining time on the current CD
(1 DISC mode) or "--.--" display
(ALL DISCS mode)
↓
Track title of the current track*
↓
Clock display (for eight seconds)
↓
Effect (P FILE) name or "EFFECT ON (OFF)"
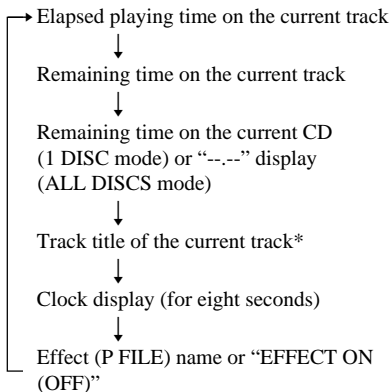
* If a CD that has no title is loaded, nothing appears. When the CD contains more than 20 tracks, CD TEXT is not displayed from track 21 on.

Tips

• You can check a track title at any time during play. If you press SCROLL on the remote for a CD with CD TEXT, 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.
• Pressing and holding DISPLAY for 2 seconds or more switches the spectrum analyzer ON/OFF.

Note

The display contents differ in stop mode.
In addition, in stop mode the disc title and artist name, total playing time of the programme, and other information are also displayed.

22

Playing MD tracks repeatedly — Repeat Play

You can repeat an MD in normal play, Shuffle Play and Programme Play.

I/⏻ (Power)

2 1
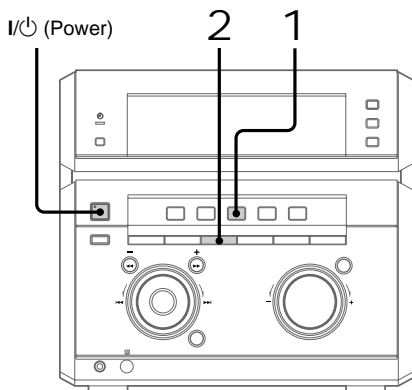
1 Press MD to switch the function to MD.

2 Press REPEAT/PTY (European model) or REPEAT (other models) during play until "REPEAT" or "REPEAT 1" appears in the MD display.

REPEAT: For all the tracks on the current MD up to 5 times.
REPEAT 1: For a single track only.

To cancel Repeat Play

Press REPEAT/PTY (European model) or REPEAT (other models) until "REPEAT" or "REPEAT 1" disappears.

Playing MD tracks in random order — Shuffle Play

You can play all the tracks on an MD in random order.

I/⏻ (Power)

1 2

3   MD □
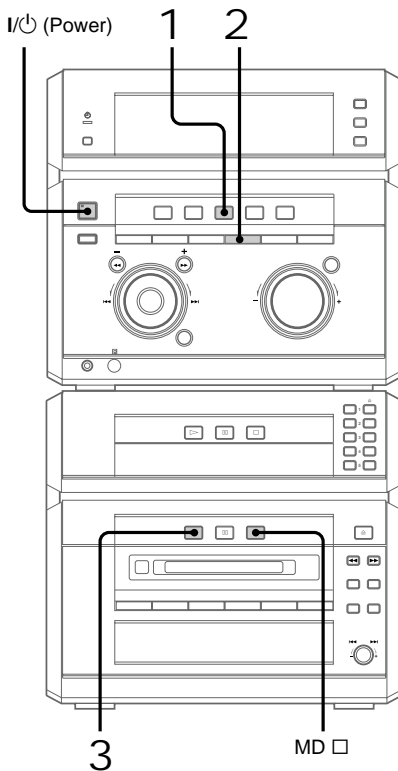
1 Press MD to switch the function to MD.

2 Press PLAY MODE repeatedly until "SHUFFLE" appears in stop mode.

3 Press MD ▷.
Shuffle Play starts.

The CD Player/The MD Deck — Play

23

To cancel Shuffle Play

Press MD □ to stop Shuffle Play, then press
PLAY MODE repeatedly until "SHUFFLE" and
"PROGRAM" disappear.

Tip

To skip a track, turn MD JOG clockwise.

Programming MD tracks

— Programme Play

You can make a programme up to 25 tracks in the
order you want them to be played.
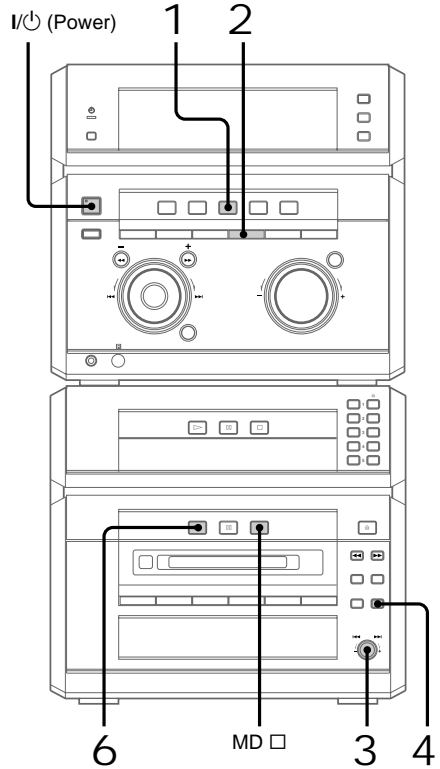
1 Press MD to switch the function to MD.

2 Press PLAY MODE repeatedly until
"PROGRAM" appears in stop mode.

3 Turn MD JOG until the desired track
number appears in the display.

```
        TRACK
  MD  7        ⁂4.09⁂   L-SYNC
PROGRAM
```

Selected track   Playing time of
number   the selected track
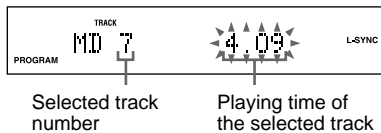
4 Press ENTER/YES.

The track is programmed.

The number of the last programmed track
appears, followed by the total playing time of
the programme.

```
        DISC
  MD  7         4.09    L-SYNC
PROGRAM
```

Last programmed   Total playing
track number   time
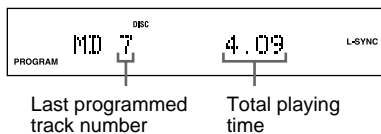
5 To programme additional tracks, repeat
steps 3 and 4.

6 Press MD ▷.

Programme Play starts.
All the tracks play in the order you selected.

To cancel Programme Play

Press PLAY MODE repeatedly until
"PROGRAM" and "SHUFFLE" disappear.

To	Press
Check the programme	CHECK on the remote repeatedly in stop mode. After the last track, "Check End" appears.
Clear a track from the end	CLEAR on the remote in stop mode.
Clear a specific track	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	Select the track in stop mode by turning MD JOG, then press ENTER/YES.

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 1,000 minutes.

Using the MD display

You can check the total number of tracks, the total playing time and the remaining time on the MD.
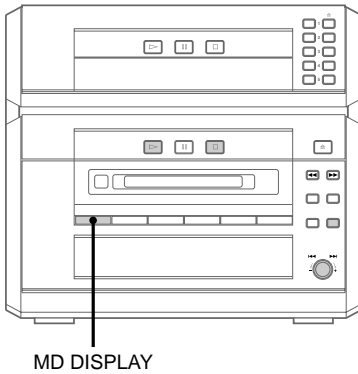
MD DISPLAY

➡ Press MD DISPLAY.

Each time you press the button during normal play or in stop mode, the display changes 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 current MD
↓
Track title of the current track*[1]

In stop mode

→ Total number of tracks and total playing time
↓
Remaining recordable time (only for a recordable MD)
↓
Disc title*[2]
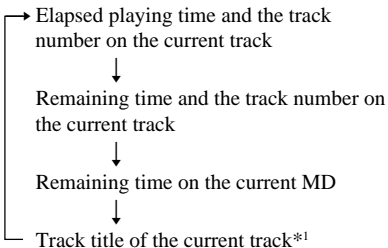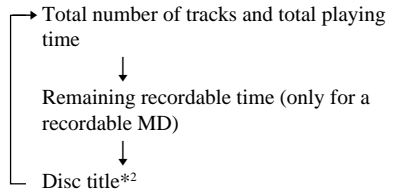
*[1] "MD No Name" and the track number appear when no track title is labelled.
*[2] "MD No Name" appears if no disc title is labelled.

Tips

• You can check a track title at any time during play. If you press SCROLL on the remote, 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.
• To label a disc title or a track title, see "Labelling an MD" on page 41.

Before you start recording

MDs (Mini Disc) 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.*¹
 – Track numbers are automatically marked as on the original CD. However, track numbers may not be marked for some tracks (see page 71).

• **This system's tuner and other components connected to the VIDEO IN jacks or TAPE IN jacks**
 – The MD deck performs analogue recording.*²
 – A track number is marked at the beginning of a recording, but when you turn on the Level Synchro Recording function (see page 34), track numbers are automatically marked in sync with the level of the input signal.

*¹ For details on the limitations of digital recording, see page 70.
*² Even if a digital component is connected to the VIDEO IN jacks or TAPE IN jacks, the MD deck performs analogue recording.

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*³ area independent of the sound information. You can edit recorded tracks quickly by modifying the TOC information.

*³ TOC: Table Of Contents

After recording

➡ Press MD ⏏ to remove the MD or press I/⏻ (power) to turn off the system.
 "TOC" lights up, or either "TOC" 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" 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.
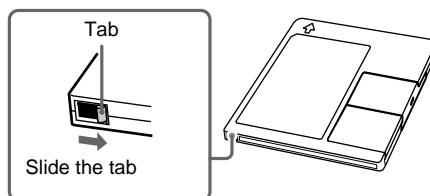
Tab

Slide the tab

• If the MD is record protected, "C11" and "Protected" appear alternately and the MD cannot be recorded. Remove the MD, then slide the record protection tab to the closed position.

27

Recording your favourite CD tracks on an MD

— CD-MD Synchro Recording

You can select your favourite CD tracks with the Programme Play feature, then record the programme on an MD using the CD-MD Synchro Recording feature. If you use a partially recorded MD, recording starts after the recorded tracks.

I/⏻ (Power)   4   2   1   5

9   8   MD □ CD □   3
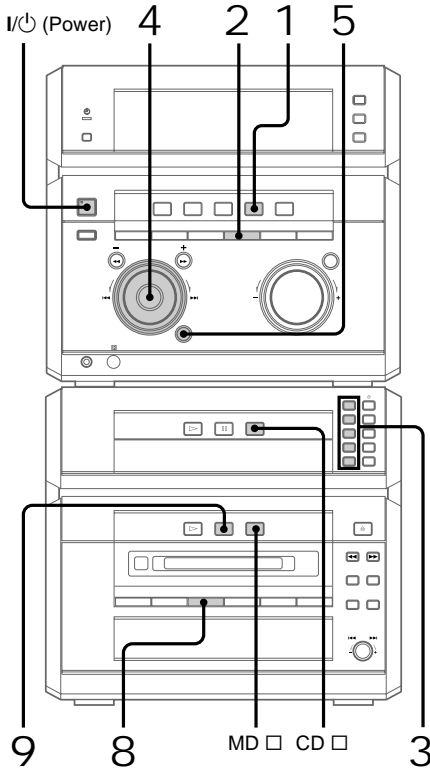
Selecting the tracks

1 Press CD to switch the function to CD.

2 Press PLAY MODE repeatedly until "PROGRAM" appears.

3 Press one of the DISC 1 – 5 to select a CD.

4 Turn the jog dial until the desired track number appears.

To programme all the tracks on a CD at once, turn the jog dial to select "AL".
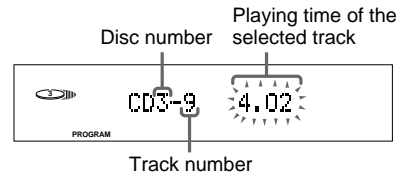
Disc number   Playing time of the selected track

CD3-9   4.02

PROGRAM

Track number

5 Press ENTER.

The track is programmed. The step number appears, followed by the number of the last programmed track and the total playing time of the programme.

Total playing time

CD3-9   15.53

PROGRAM

Last programmed track
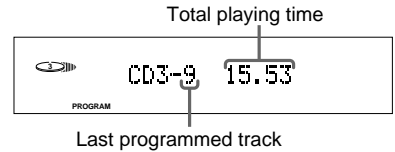
6 To programme additional tracks, repeat steps 3 to 5.

Skip step 3 to select tracks from the same disc.

Recording on an MD

7 Insert a recordable MD.

8 Press CD SYNC NORMAL.

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

9 Press MD ❙❙.

Recording starts.
When the recording is completed, the CD player and the MD deck stop automatically.

To stop recording

Press CD □ or MD □.

If the MD becomes full during recording

The CD player and the MD deck stop automatically.

Notes

• If the play mode is set to the Repeat or Shuffle Play, it automatically switches to normal play at step 8.
• Auto Cut function will not operate during Synchro-recording.

Recording the current track — REC IT

You can record a track quickly while listening to a CD.

If the MD has been partially recorded, recording starts after the recorded tracks.
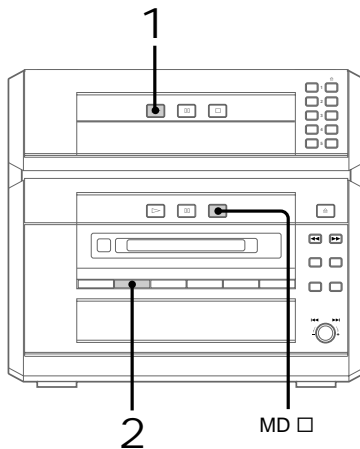
1 Press CD ▷.

CD play starts.

2 Press REC/REC IT while listening to a track you want to record.

Play returns to the start of the track and recording starts. The MD deck stops automatically at the end of the track.

To stop recording

Press MD □.

Recording for long times

In addition to normal stereo recording, this system has two long time modes: LP2 and LP4. When recording in LP2 mode, you can record 2 times the normal recordable time, and in LP4 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.

Note

MDs recorded in MD LP (LP2 or LP4) mode cannot be played back on a system that does not support MD LP mode. (Systems which support MD LP mode bear the "MD LP" logo.) In addition, you cannot perform S.F Edit or other operations for MDs recorded in MD LP mode.

I/⏻ (Power)
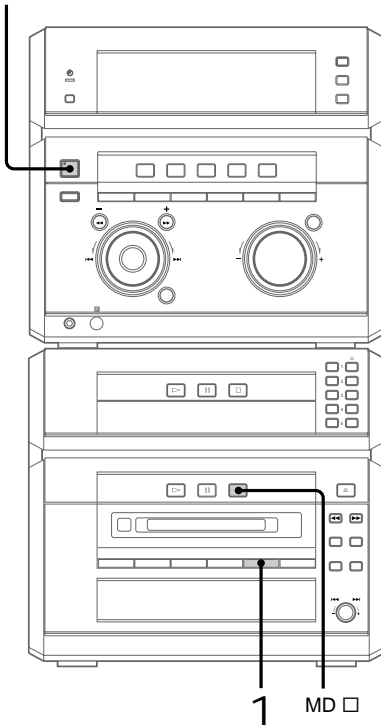
1 Press REC MODE repeatedly to select the recording mode you want to record in before starting to record with CD-MD Syuchro Recording, etc.

Each time you press the button, the display changes as follow:

→ STEREO REC (Stereo)
↓
LP2 REC (2 times stereo)
↓
LP4 REC (4 times stereo)
↓
└─ MONO REC (Monaural)
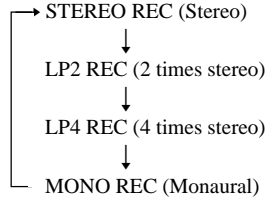
2 Start the recording.

The source is recorded in the selected recording mode.

Selected recording mode

To add "LP:" automatically at the beginning of a track name during a long time recording

"LP:" appears when you try to play the MD on a system that does not support MD LP mode. This convenient function lets you know at a glance that the MD cannot be played back. The factory setting is "On".

1 Press MENU/NO during recording pause. "Setup?" appears, then press ENTER/YES.
2 Turn MD JOG until "LP Stamp On" appears, then press ENTER/YES.
3 Press MENU/NO. "LP Stamp On" disappears.

1   MD □

Notes

- The recorded "LP:" is a stamp which appears to indicate that the MD cannot be played back when you try to play the MD on system that does not support MD LP mode. It does not appear for systems that support MD LP 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.
- MDs recorded in MD LP (LP2 or LP4) mode should be played back on a system that supports MD LP mode. These MDs cannot be played back on other systems.
- 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.

Recording on an MD manually — Manual Recording

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

I/⏻ (Power)
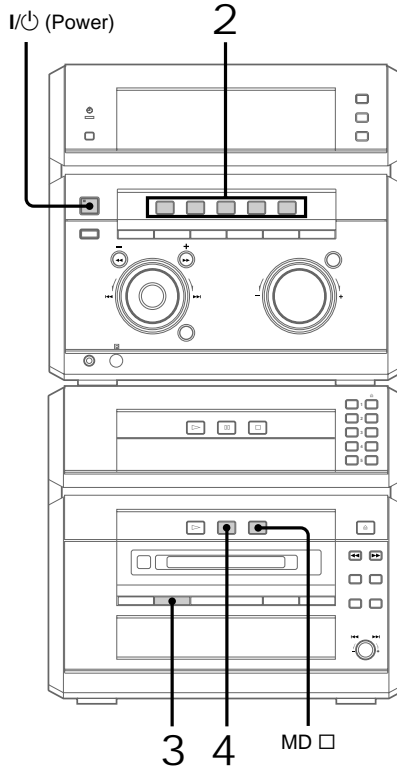
1 Insert a recordable MD.

2 Press one of the function buttons you want to record (e.g., CD).

3 Press REC/REC IT.
The MD deck stands by for recording.

4 Press MD ⏸⏸.
Recording starts.

5 Start playing the desired source (e.g., CD) to record.

When recording from this system's CD player, the track numbers are automatically marked. Press REC/REC IT during recording to mark the track numbers at the desired point. If you want to mark track numbers automatically during recording from the radio, see "Marking track numbers" on page 34.

To stop recording

Press MD ☐.

To record over from the beginning of an existing MD track

1 Turn MD JOG until the number of the track to be recorded over appears after step 2.

2 Press REC/REC IT.

"Overwrite" and remaining recordable time on the MD alternate in the display.

3 Do steps 4 and 5.

Tips
- You can adjust the recording level to the desired volume (see page 37).
- You can check the remaining recordable time on the MD during recording by pressing MD DISPLAY.

Notes
- 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.
- You cannot record over the existing material when "PROGRAM" or "SHUFFLE" appears in the display.

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:

When you press ENTER/YES in step 5

End of the source to be recorded

Time

6 seconds

Recorded portion

Beginning of the source to be recorded

I/⏻ (Power)

2

3   MD □   **5**
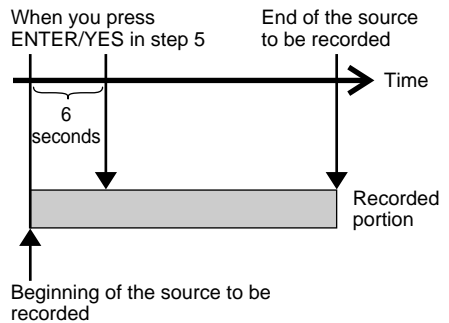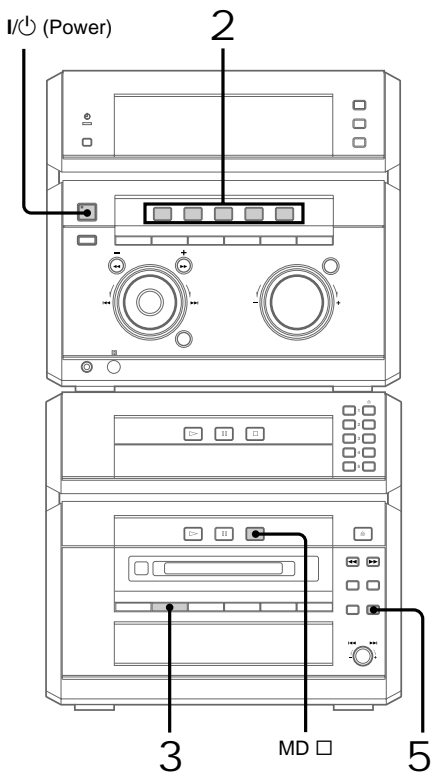
1 Insert a recordable MD.

2 Press one of the function buttons you want to record (i.e., TUNER).

3 Press REC/REC IT.
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.

Recording of the source starts with the 6 seconds of audio data stored in the buffer memory.

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

To stop Time Machine Recording
Press MD □.

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.

33

Marking track numbers

You can mark track numbers:

• **Automatically during recording**

Track numbers are automatically marked as on the original source during recording from this system's CD player. However, track numbers may not be marked for some tracks (see page 71). Use the Level Synchro Recording function to automatically mark track numbers during recording from this system's tuner or components connected to the VIDEO jacks or the TAPE IN jacks. However, 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.

• **At any point during recording**

You can mark track numbers during recording any sources.

• **After recording**

Use the Divide Function (see page 48).

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 "L-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.

Note

You can not mark track numbers automatically if the sound source to be recorded is noisy (e.g., tapes or radio programmes).

I/⏻ (Power)   **1**   **3,4,5**

MD □   **2**   **7**   **3,6**   **4,5**
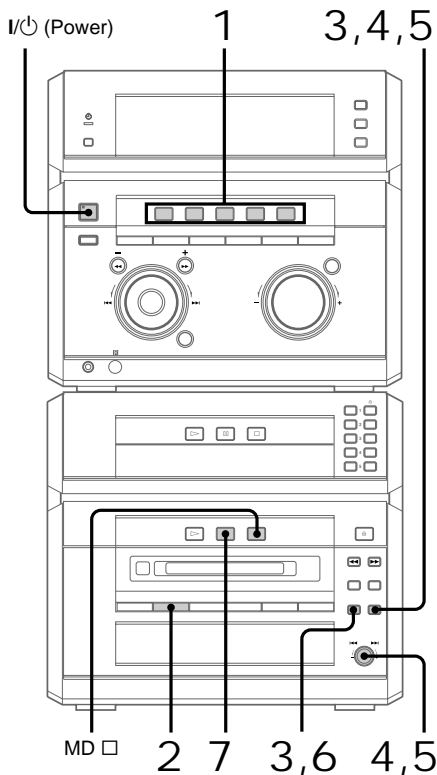
1 Press one of the function buttons you want to record (e.g., TUNER).

2 Press REC/REC IT to stand by for recording.

3 Press MENU/NO.
"Setup?" appears, then press ENTER/YES.

4 Turn MD JOG until "T.Mark Off" appears, then press ENTER/YES.

5 Turn MD JOG until "T.Mark LSync" appears, then press ENTER/YES.
"L-SYNC" lights up.

6 Press MENU/NO.

7 Press MD ⅡⅠ.
Recording starts.

To stop recording
Press MD □.

To change the trigger level for Level Synchro Recording
Do the procedure below to change the signal level that triggers Level Synchro Recording.
1 Press MENU/NO during recording pause.
"Setup?" appears, then press ENTER/YES.
2 Turn MD JOG until "LS(T)" appears, then press ENTER/YES.
3 Turn MD JOG 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, the volume returns to the factory setting (–50 dB).
4 Press MENU/NO.

To cancel automatic track marking
1 Press MENU/NO during recording pause.
"Setup?" appears, then press ENTER/YES.
2 Turn MD JOG until "T.Mark LSync" appears, then press ENTER/YES.
3 Turn MD JOG until "T.Mark Off" appears, then press ENTER/YES.
4 Press MENU/NO.
"L-SYNC" disappears.

When "L-SYNC" is off, a track number is marked only at the beginning of each recording.

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.
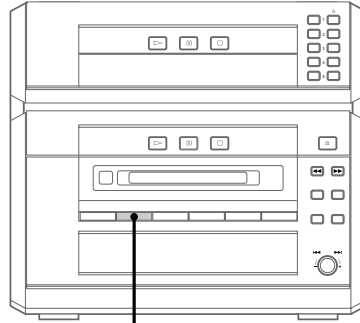
REC/REC IT

➡ Press REC/REC IT during recording at the point you want to add a track mark.
The tracks following the added one are renumbered.

35

Making a space between tracks 3 seconds long

— Smart Space, Auto Cut

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

No sound input for less than 30 seconds

| Off | ♫ ∼ | | ♫ ∼ |

⇩

| On | ♫ ∼ | | ♫ ∼ |

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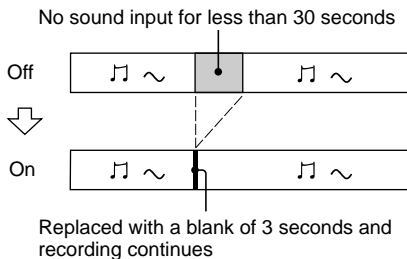
Auto Cut: When the Smart Space function is on, if there is no sound input for about 30 seconds or more, the MD deck replaces this silence with a blank of about 3 seconds and enters recording pause.

No sound input for 30 seconds or more

| Off | ♫ ∼ | | ♫ ∼ |

⇩

| On | ♫ ∼ | |

Replaced with a blank of 3 seconds and recording pauses
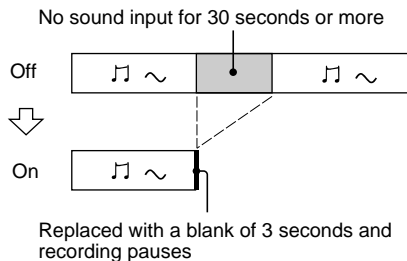
Note

During Synchro-recording, Auto Cut will not operate regardless of the setting.

7   MD □   **3,4,5**

2   **3,6**   **4,5**
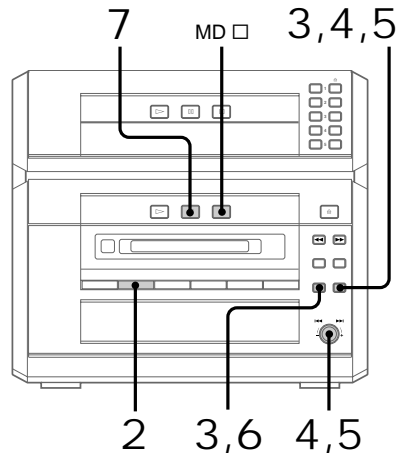
1 Switch the function to other than MD.

2 Press REC/REC IT to stand by for recording.

3 Press MENU/NO.
"Setup?" appears, then press ENTER/YES.

4 Turn MD JOG until "S.Space Off" (or "S.Space On") appears, then press ENTER/YES.

5 Turn MD JOG until "S.Space On" appears, then press ENTER/YES.

6 Press MENU/NO.

7 Press MD ⅠⅠ.

Recording starts.

Start playing the desired source (CD, etc.) to record.

If there is an extended silence of less than about 30 seconds, "Smart Space" appears, and the MD deck replaces the silence with a blank of about 3 seconds and continues recording.

If there is no sound input for about 30 seconds or more, "Auto Cut" appears, and the MD deck replaces the silence with a blank of about 3 seconds and switches to recording pause. Press MD ▷ to restart the recording.

To stop recording

Press MD □.

To turn off Smart Space and Auto Cut functions

1 Press MENU/NO during recording pause.
"Setup?" appears, then press ENTER/YES.

2 Turn MD JOG until "S.Space On" appears, then press ENTER/YES.

3 Turn MD JOG until "S.Space Off" appears, then press ENTER/YES.

4 Press MENU/NO.

Tip

The Smart Space and Auto Cut functions are factory set to on. If you turn off the system or disconnect the mains lead, the MD deck will retain the last setting (S.Space On or Off).

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.

Note

During Synchro-recording, the recording level is fixed at 0.0 dB regardless of the setting.

I/(¹) (Power)   **1**   **4,5,7**

MD □   **2 10 4,8 5,6**
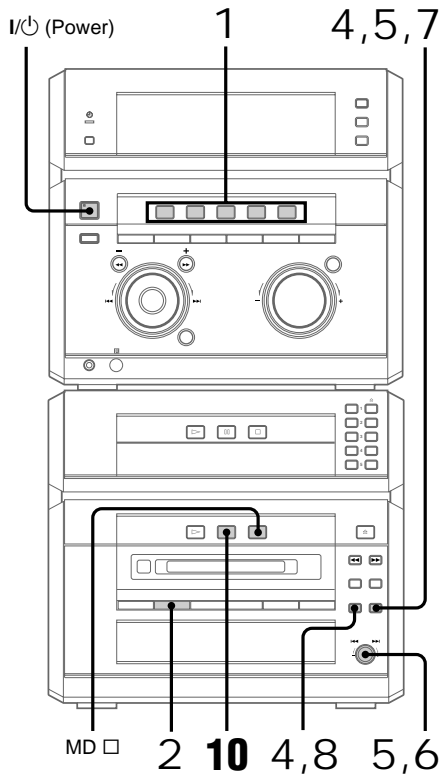
1 Press one of the function buttons to select a sound source to be recorded.

37

Adjusting the recording level (continued)

2 Confirm that the MD deck is in recording standby.

If not, press REC/REC IT.

3 Prepare the sound source and start play.

4 Press MENU/NO.

"Setup?" appears, then press ENTER/YES.

5 Turn MD JOG until "LevelAdjust?" appears, then press ENTER/YES.

6 Turn MD JOG to adjust the recording level.

You can roughly adjust the recording level by pressing MD ◄◄ or ►►.

The recording level can be adjusted from –∞ to +18.0 dB. While monitoring the sound, adjust to the optimum level while making sure that "OVER" does not appear in the display at the loudest portion. The level meter appears in the display while adjusting the level. (The left channel is on the top, and the right channel is on the bottom.)

```
 ▷ⅠⅠ        TRACK                       ⌐REC¬
        Ⓛ ███ ███ ███ ███ ███ ███ ███
        Ⓡ ███ ███ ███ ███ ███ ███ ███        L-SYNC
                         ↓OVER↓
```

Adjust the level so that "OVER" does not appear

7 Press ENTER/YES.

8 Press MENU/NO.

9 When a CD or other sound source is playing, stop playback.

10 Press MD ⅠⅠ.

Recording starts.
When recording a CD, etc., start playing.

To stop recording

Press MD ☐.

Tips

- You can also adjust the recording level during recording.
- Once adjusted, the recording level is maintained until you adjust it again.
  To recall the factory setting press CLEAR in step 6. The recording level returns to the factory setting (0.0 dB).

Monaural recording

Stereo signals such as an FM stereo broadcast can be converted to monaural format and recorded. When recording in monaural format, the MD recording time is approximately twice the normal recording (stereo recording) time (i.e., 120 minutes of monaural audio can be recorded on a 60-minute MD).

I/⏻ (Power)
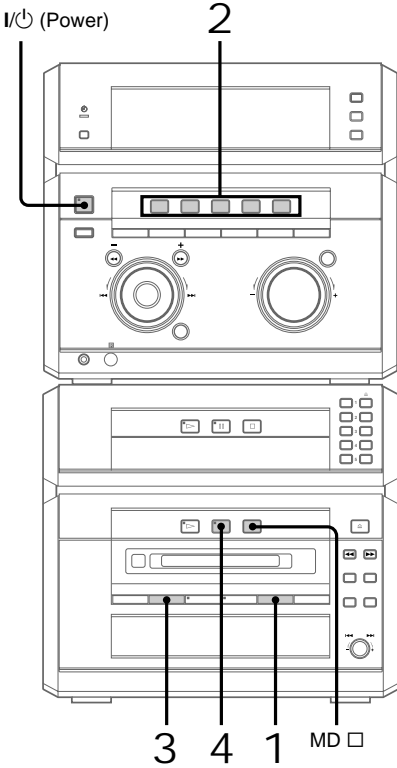
1 Press REC MODE repeatedly until "MONO" appears.

2 Press one of the function buttons you want to record (e.g., TUNER).

3 Press REC/REC IT.
The MD deck stands by for recording.

4 Press MD ▯▯.
Recording starts.
Start playing the desired source (CD, etc.) to record.

To stop recording
Press MD □.

To return to stereo recording
Press REC MODE repeatedly until "MONO" disappears.

The system switches back to stereo recording (LP2 or LP4), and "MONO" lights off.

The MD Deck — Recording

The MD Deck — Editing

Before you start editing

You can edit the recorded tracks on an MD. By using the editing functions, you can create a new sequence to the recorded MD.

Editing functions

- **Name — Labelling MDs (page 41)**

  Use this function to label discs and tracks. You can use upper case, lower case, numbers, and symbols for the titles.

- **Erase — Erasing recordings (page 43)**

  Use this function to erase a single track one by one, all the tracks at once, or a portion of a track.

- **Move — Changing the order of tracks (page 47)**

  Use this function to change the track numbering.

- **Divide — Adding track numbers (page 48)**

  Use this function to add track numbers. This lets you locate your favourite phrases quickly.

- **Combine — Combining recorded tracks (page 49)**

  By using this function, two tracks are combined to a single track. You can combine the tracks which are not numerically consecutive, i.e. the track 1 and track 4, etc.

- **Undo — Cancelling the last edit (page 51)**

  Use this function to cancel the last edit and restore the contents of the MD to the condition before the edit.

- **S.F Edit — Changing the recorded level (page 52)**

  Use this function to change the recorded level. You can also select Fade-in or Fade-out recording.

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, "C11" and "Protected" appear alternately and the MD cannot be edited.

Slide the tab to close the slot.

2 Press PLAY MODE repeatedly until both "PROGRAM" and "SHUFFLE" disappear.

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

After editing

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

"TOC" lights up or 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" is flashing) to ensure a complete editing.

40

Labelling an MD

— Name Function

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

During Synchro (normal, High-Speed) Recording

If "CD TEXT" lights up or flashes during recording, you can record the CD TEXT information onto the MD as follows:

• Automatically during recording
When "CD TEXT" is lit, the CD TEXT information is automatically recorded.

• Manually during recording
When "CD TEXT" flashes, press NAME EDIT/CHARACTER, and then press ENTER/YES to record the title of the current track.

After recording

Use Name Function on this page. You can input a total of approximately 1,700 characters for the disc title and track titles on a single MD.

I/⏻ (Power)

1   5

2,3   4,1   7
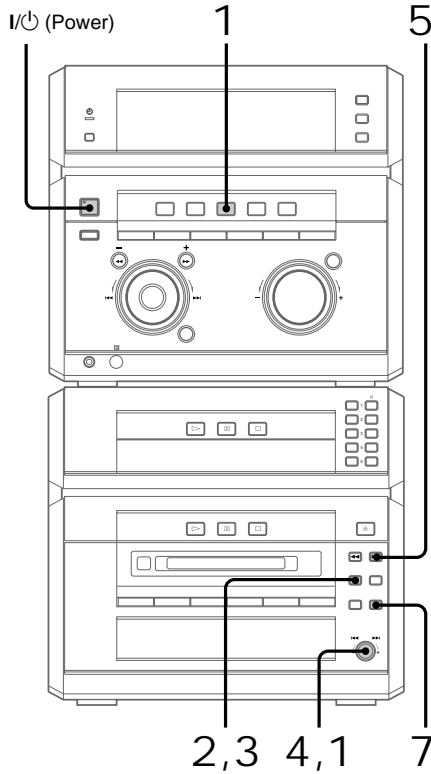
1 Press MD to switch the function to MD.

To label a track, turn MD JOG until the desired track number appears.

2 Press NAME EDIT.

The text input screen appears, and the cursor flashes.

DISC   TOC EDIT   L-SYNC

Cursor
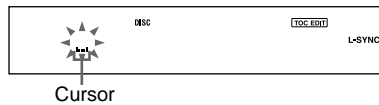
3 Press CHARACTER to select the desired type of character.

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

␣ (Blank space) → A (Upper cases) → a (Lower cases) → 0 (Number) → ' (Symbols) → ␣ (Blank space) → ···

4 Turn MD JOG to select the desired character.

To enter a blank space

Press MD ►► without turning MD JOG.

To enter a symbol

You can use the following 24 symbols.

' – / , . ( ) : ! ? & + < > _ = " ; # $ % @ ✳ `

5 Press MD ►►.

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

Cursor

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

If you make a mistake

Press MD ◄◄ or ►► until the character you want to change flashes, then repeat steps 3 to 5.

To erase a character

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

7 Press ENTER/YES to complete the labelling procedure.

The titles you labelled appear sequentially, and then the original display appears.

To cancel labelling

Press MENU/NO.

Notes

- You can label a track title during play. The playback repeats until you finish labelling.
- If the MD is record protected, "C11" and "Protected" appear alternately and the MD cannot be recorded. Remove the MD, then slide the record protection tab to the closed position (see page 27).

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 MD JOG until "Name?" appears, then press ENTER/YES.

3 Turn MD JOG until "Nm Copy?" appears, then press ENTER/YES.

4 Turn MD JOG 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 MD JOG 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.

To cancel copying

Press MENU/NO.

Checking the titles

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

Erasing the titles

1 Press MENU/NO in stop mode.
2 Turn MD JOG until "Name?" appears, then press ENTER/YES.
3 Turn MD JOG until "Nm Erase?" appears, then press ENTER/YES.
4 Turn MD JOG until the desired title to erase appears, then press ENTER/YES.

    "Complete!" appears and the title is erased.

Erasing all titles

1 Press MENU/NO.
2 Turn MD JOG until "Name?" appears, then press ENTER/YES.
3 Turn MD JOG until "Nm All Ers?" appears, then press ENTER/YES.
    "Nm All Ers??" appears.
4 Press ENTER/YES.

    "Complete!" appears and all titles are erased.

To cancel erasing

Press MENU/NO.

To return to the condition before labelling or erasing

You can return to the original condition immediately after labelling or erasing a title (see page 51).

Erasing recordings

— Erase Function

The MD deck lets you erase unwanted tracks quickly and easily. You can restore the contents to the condition before erasing (unerase) by using the Undo function. Note, however, you cannot undo an edit after performing any additional edits.

The three options for erasing recordings are:

- Erasing a single track. (ERASE)
- Erasing all tracks. (ALL ERASE)
- Erasing a portion of a track. (A-B ERASE)

Erasing a single track (ERASE)

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.

Eg.: Erasing track 2.
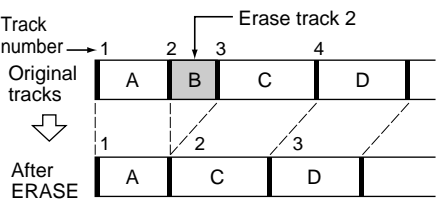
When erasing multiple tracks, you should proceed in order from high to low track number to prevent the renumbering of tracks that have not been erased yet.

43

Erasing recordings (continued)
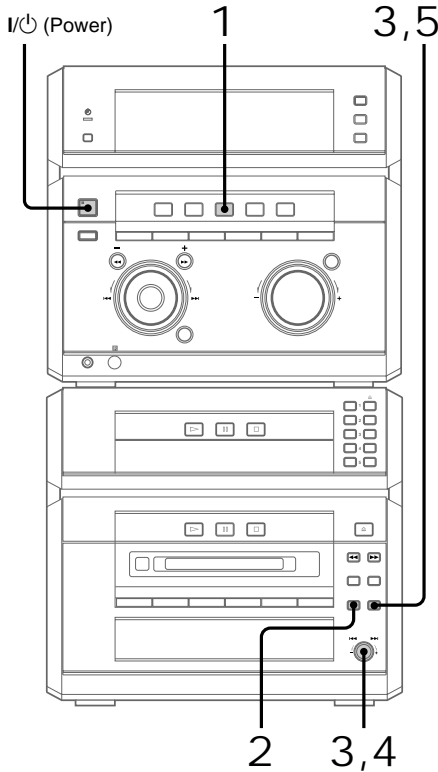
I/⏻ (Power)

1　**3,5**

2　**3,4**

1 Press MD to switch the function to MD.

2 Press MENU/NO to display "Edit Menu".

3 Turn MD JOG until "Tr Erase?" appears, then press ENTER/YES.

4 Turn MD JOG until the desired track number appears.

TRACK
Erase Tr 1
L-SYNC
TOC EDIT
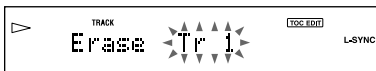
5 Press ENTER/YES.

"Complete!" appears for a few seconds and the selected track and title are erased.

To cancel erasing

Press MENU/NO.

To return to the condition before erasing

You can return to the original condition immediately after erasing the tracks (see page 51).

Note

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

Erasing all tracks (ALL ERASE)

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

I/⏻ (Power)

1　**3,4**

2　**3**

44

1 Press MD to switch the function to MD.

2 Press MENU/NO to display "Edit Menu".

3 Turn MD JOG until "All Erase?" appears, then press ENTER/YES. "All Erase??" appears.

4 Press ENTER/YES again.
"Complete!" appears for a few seconds and the disc title, all recorded tracks and their titles are erased.

To cancel erasing
Press MENU/NO.

To return to the condition before erasing
You can return to the original condition immediately after erasing the tracks (see page 51).

Erasing a portion of a track (A-B ERASE)
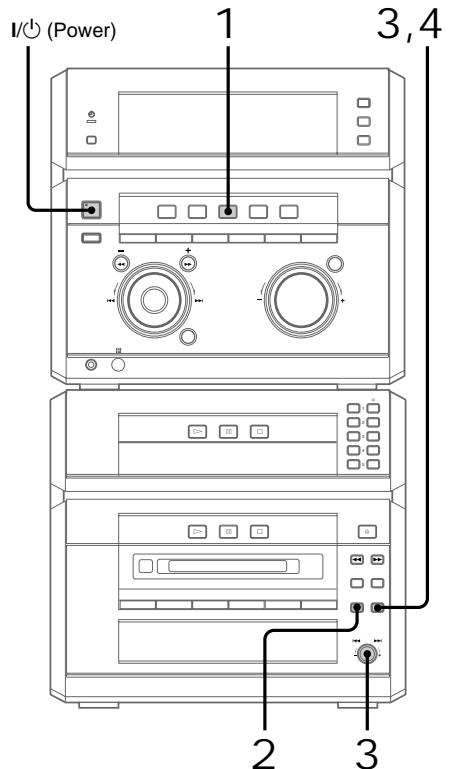
You can specify a portion within a track and erase the portion with ease. You can shift the desired portion by frame*, minute or second intervals. This function is convenient when erasing unnecessary sections after recording a satellite broadcast or FM broadcast.

* 1 frame is 1/86 second.

E.g.: Erasing a portion of track 2.
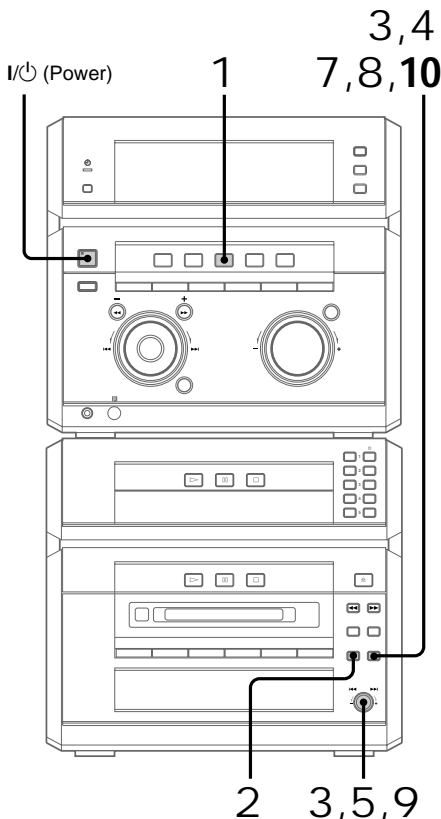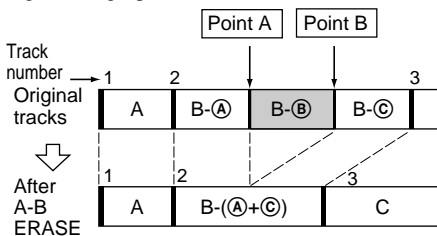
		Point A	Point B	

Track number → 1   2   3

Original tracks

A	B-Ⓐ	B-Ⓑ	B-Ⓒ

⬇

After A-B ERASE

1	2	3
A	B-(Ⓐ+Ⓒ)	C

I/φ (Power)

1

3,4
7,8,10

2   3,5,9

1 Press MD to switch the function to MD.

2 Press MENU/NO to display "Edit Menu".

3 Turn MD JOG until "A-B Erase?" appears, then press ENTER/YES.

continued

45

4 Press ENTER/YES again.

"—Rehearsal—" and "Point A ok?" appear alternately while the deck repeats the portion from a few seconds before point A to point A.

5 While monitoring the sound, turn MD JOG 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 minute or second intervals, press MD ◀◀ or ▶▶ so that minute or second flashes, then turn MD JOG.

* You can shift the starting point by 2-frame intervals (tracks recorded in Monaural or LP2 Stereo mode) or by 4-frame intervals (tracks recorded in LP4 Stereo mode).

6 Repeat step 6 until point A is played correctly.

7 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.

8 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.

9 Turn MD JOG to find point B.

The procedure is the same as step 6.

10 Press ENTER/YES if point B is correct.

"Complete!" appears for a few seconds and the portion between point A and B is erased.

To cancel A-B Erase

Press MENU/NO.

To return to the condition before erasing

You can return to the original condition immediately after erasing the tracks (see page 51).

Note

If "Impossible" appears, the specified portion cannot be erased. 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.

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.

I/⏻ (Power)

1   **3,4,6**

2   **3,4,5**

---
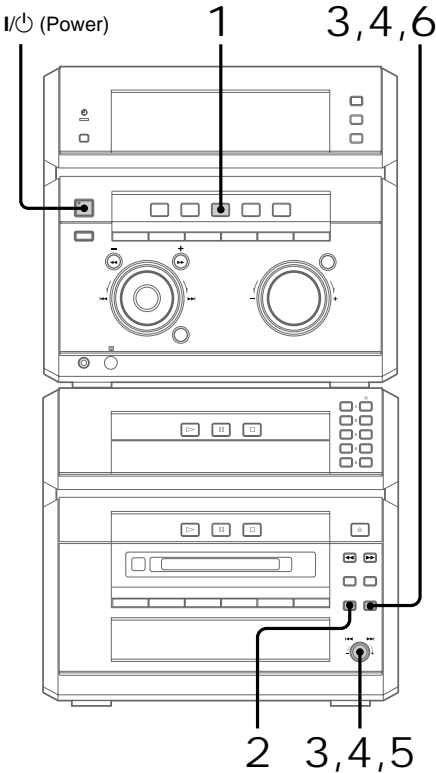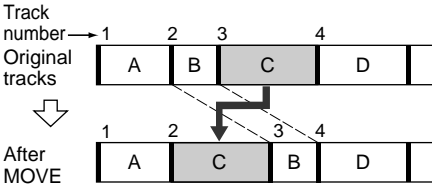
1   Press MD to switch the function to MD.

2   Press MENU/NO to display "Edit Menu".

3   Turn MD JOG until "Move?" appears, then press ENTER/YES.

4   Turn MD JOG until the desired track number to move appears, then press ENTER/YES.

5   Turn MD JOG until the new track position appears.
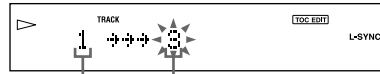
Original track   New track
number   position

6   Press ENTER/YES.

"Complete!" appears for a few seconds and the selected track moves to the appointed position.

To cancel moving

Press MENU/NO.

To return to the track order before MOVE

You can return to the original track order immediately after moving recorded tracks (see page 51).

The MD Deck — Editing

47

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.

Track number → 1 2 3
Original tracks: A B C D

Divide track 2 into track B and C

1 2 3 4
After DIVIDE: A B C D

I/⏻ (Power) 　 **1** 　 **3,4,6**

2 　 **3,4,5**
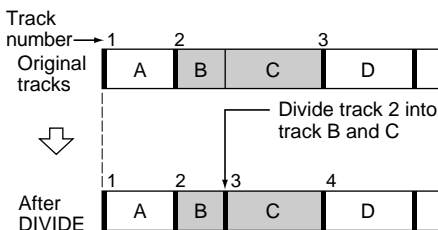
1 Press MD to switch the function to MD.

2 Press MENU/NO to display "Edit Menu".

3 Turn MD JOG until "Divide?" appears, then press ENTER/YES.

4 Turn MD JOG 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 MD JOG to adjust the point to be divided.

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

To shift the point by minute or second intervals, press MD ◀◀ or ▶▶ so that minute or second flashes, then turn MD JOG.

* You can shift the dividing point by 2-frame intervals (tracks recorded in Monaural or LP2 Stereo mode) or by 4-frame intervals (tracks recorded in LP4 Stereo mode).

6 Press ENTER/YES.

"Complete!" appears for a few seconds and the newly created track starts playing.

To cancel dividing

Press MENU/NO.

To return to the condition before DIVIDE

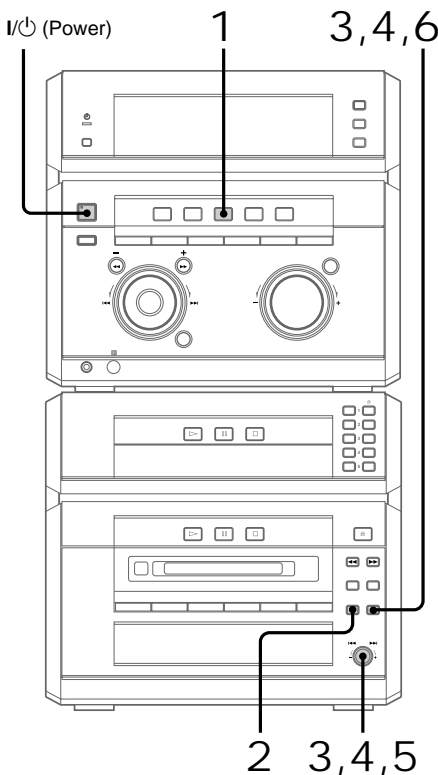You can return to the original condition immediately after dividing the tracks (see page 51). You can also return to the original condition by using the Combine Function (see page 49).

48

Notes
• If you divide a labelled track (page 41) into two
tracks, only the first track retains the track title.

E.g.:

1	2	3		4
Andante	Adagio	Allegro		

1	2	3	4	5
Andante	Adagio	Allegro		
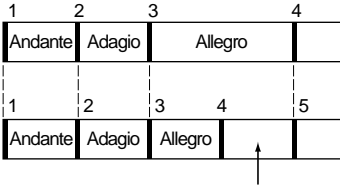
The new track is not labelled

• "Impossible" appears, when you specify the
division point at the beginning or end of a track.
Turn MD JOG to shift the position.

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.

E.g.: Combining track 3 to track 1.
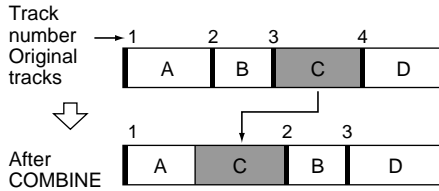
E.g.: Combining track 1 to track 4.
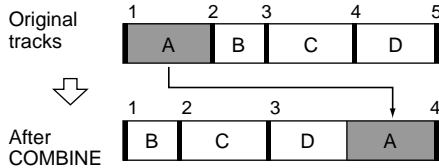
49

I/⏻ (Power)

1　　　**3,4,6**

2　**3,4,5**
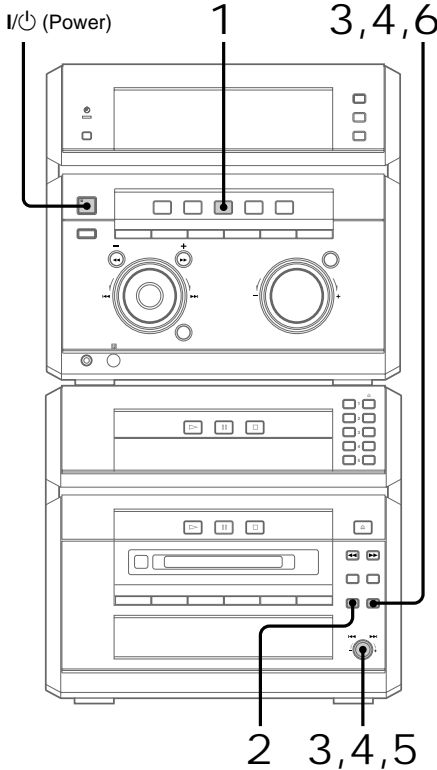
1 Press MD to switch the function to MD.

2 Press MENU/NO to display "Edit Menu".

3 Turn MD JOG until "Combine?" appears, then press ENTER/YES.

4 Turn MD JOG until the first track number of the two to be combined appears, then press ENTER/YES.

For example, to combine tracks 4 and 1, select 4.

First track number

5 Turn MD JOG until the second track number of the two to be combined appears.
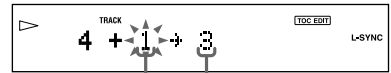
Second track number to be combined　　New track number

6 Press ENTER/YES.

"Complete!" appears for a few seconds and the tracks are combined. Play starts.

To cancel combining
Press MENU/NO.

To return to the condition before COMBINE

You can return to the original condition immediately after combining the tracks (see page 51). You can also return to the original condition by using the Divide function.

Notes
- Tracks recorded in different recording modes (Stereo, MONO, LP2 or LP4) cannot be combined.
- If both of the combined tracks have track titles, the title of the second track is erased.
- If "Impossible" appears, the tracks cannot be combined. 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.

50

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.
- Press the REC/REC IT, CD SYNC NORMAL or CD SYNC HIGH SPEED button.
- 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.

3,4

1   2
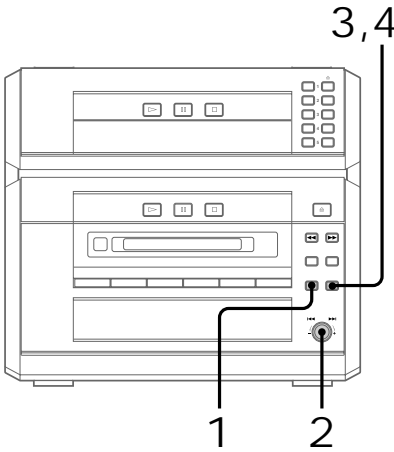
1 Press MENU/NO in stop mode to display "Edit Menu".

2 Turn MD JOG until "Undo?" appears.
"Undo?" does not appear, when there is no editing function that can be cancelled.

3 Press ENTER/YES.
One of the following messages appears, depending on the last edit.

Editing done	Message
Labelling a track or an MD	
Copying a disc title or a track title	"Name Undo?"
Erasing labelled titles	
Erasing a single track	
Erasing all tracks	"Erase Undo?"
Erasing a portion of a track	
Moving a track	"Move Undo?"
Dividing a track	"Divide Undo?"
Combining tracks	"Combine Undo?"

4 Press ENTER/YES again.
"Complete!" appears for a few seconds and the contents of the MD are restored to the condition before the edit.

To cancel Undo function
Press MENU/NO.

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.

I/⏻ (Power)   **1**   **3,4,6,7**

2   3,4,5
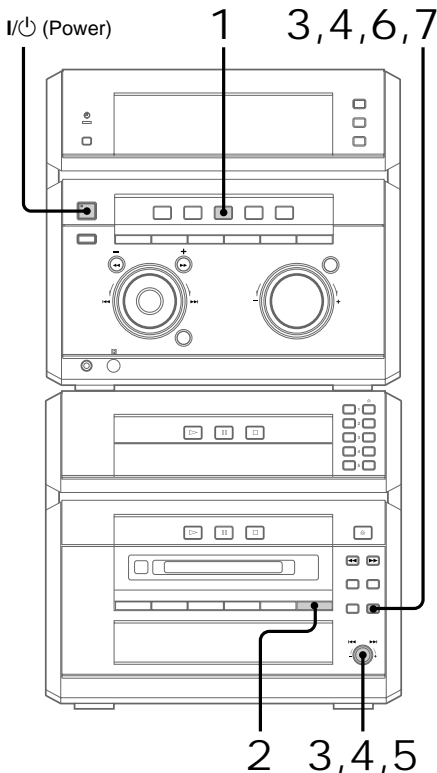
Changing the overall recording level

1 Press MD to switch the function to MD.

2 Press S.F EDIT.
"S.F Edit" appears in the display.

3 Turn MD JOG until "Tr Level?" appears, then press ENTER/YES.

4 Turn MD JOG until the track number you want to change the recording level appears, then press ENTER/YES.
"Level 0dB" appears in the display.

5 While monitoring the sound, turn MD JOG to change the recorded level without turning on "OVER" on the peak level meters.
You can set the level at any value between –12 dB and +12 dB, in 2 dB increments.

6 Press ENTER/YES.
"S.F Edit OK?" appears in the display.

7 Press ENTER/YES.
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 MD to switch the function to MD.

2 Press S.F EDIT.
"S.F Edit" appears in the display.

3 Turn MD JOG until "Fade In?" or "Fade Out?" appears, then press ENTER/YES.

4 Turn MD JOG until the track number you want to change the recording level appears, then press ENTER/YES.
"Time 5.0s" appears in the display.

5 While monitoring the sound, turn MD JOG 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 15.0 seconds, in 0.1 second increments. You cannot set the time longer than the track.

6 Press ENTER/YES.
"S.F Edit OK?" appears in the display.

7 Press ENTER/YES.
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.

To cancel the operation
Press MENU/NO in steps 1 to 6. If you press ENTER/YES in step 7 and recording starts, you cannot interrupt the operation.

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.**
- You cannot change the recorded level of a track recorded in LP2 or LP4 mode.
- 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.
- You cannot undo the S.F Edit Function even if you use the Undo Function.

Adjusting the sound

You can reinforce the bass, create a more powerful sound, and listen with headphones.

I/$\circlearrowleft$ (Power)   DBFB

PHONES   GROOVE
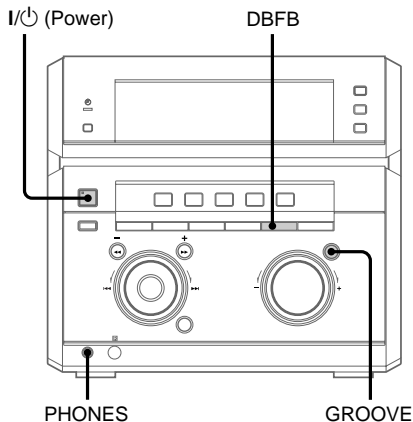
To reinforce bass (DBFB)

Press DBFB*.

Every time you press the button, the display changes as follows:

$$\text{DBFB NORMAL } (\overset{\text{DBFB}}{\blacksquare\backslash\backslash\backslash})$$
$$\downarrow$$
$$\text{DBFB HIGH } (\overset{\text{DBFB}}{\blacksquare\backslash\backslash\backslash\backslash})$$
$$\downarrow$$
$$\text{DBFB OFF (off)}$$
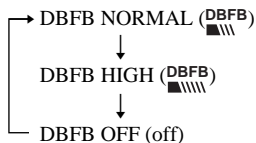
* DBFB = Dynamic Bass Feedback

For a powerful sound (GROOVE)

Press GROOVE. The volume switches to power mode, DBFB is automatically set to full strength, the equalizer curve changes, and GROOVE button lights up. Press GROOVE again to return to the previous volume.

Notes
• With some songs, the music will sound distorted when you use the DBFB system with the sound effect if the bass is too strong. Set the DBFB to "$\overset{\text{DBFB}}{\blacksquare\backslash\backslash\backslash}$" or "OFF", or cancel the sound effect (this page).
• Cancelling GROOVE sets DBFB to "$\overset{\text{DBFB}}{\blacksquare\backslash\backslash\backslash}$" and flattens the equalizer curve. To cancel the DBFB level, press DBFB until the indication disappears.

Selecting the audio emphasis

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

Selecting the effect from the music menu

I/⏻
(Power)
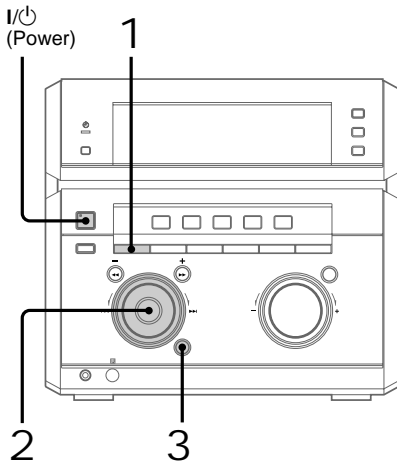
1 Press FILE SELECT.

The last effect chosen appears in the display.

2 Turn the jog dial to select the preset you desire.

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

3 Press ENTER.

To cancel the effect

Press EFFECT on the remote repeatedly so that "EFFECT OFF" appears in the display.

Music menu options

" SUR ‖‖•‖‖ " appears if you select an effect with surround effects.

| Effect	For
ROCK POP SOUL HOUSE R&B	Standard music sources
ACTION ROMANCE SF DRAMA SPORTS	Soundtracks and special listening situations
SHOOTING RACING RPG BATTLE ADVENTURE	Video games
P FILE 1–5	Personal file*

* The personal file function lets you store your own effects (see "Making a personal audio emphasis file" on page 58).

Tip

When using the remote, pressing ⬆/⬇ displays the last effect chosen and you can select a new effect in the music menu.

Sound Adjustment

55

Changing the brightness of the display

You can enjoy changing the brightness of the display while listening to the music.
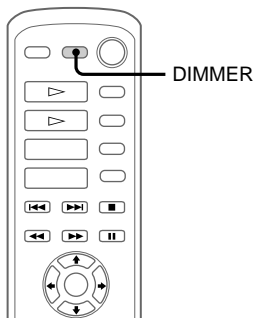
DIMMER

➜ **Press DIMMER on the remote.**
Every time you press the button, the display changes as follows:
DIMMER ON
↕
DIMMER OFF

Selecting surround effects

You can enjoy surround effects.
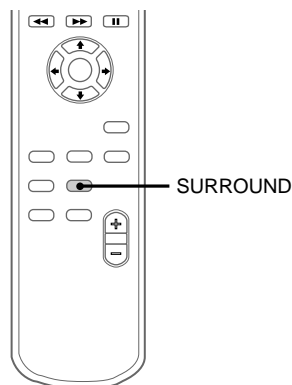
SURROUND

➜ **Press SURROUND repeatedly to select the surround effect you desire.**
Every time you press the button, the display changes as follows:
SURROUND ON ($\underset{\text{|||}\cdot\text{|||}}{\text{SUR}}$)
↕
SURROUND OFF (off)

To cancel the effect
Press EFFECT repeatedly so that "EFFECT OFF" appears in the display.

Tip
If you want to memorize the effect, store it into a personal file (see "Making a personal audio emphasis file" on page 58).

Note
When you choose other sound effects, the surround effects will be cancelled.

Adjusting the graphic equalizer

You can adjust the sound by raising or lowering the levels of specific frequency ranges.

Before operation, first select the audio emphasis you want for your basic sound.
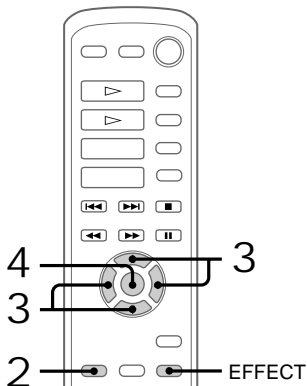
1 Select the audio emphasis you want for your basic sound (see "Selecting the audio emphasis" on page 55).

2 Press GEQ.

3 Press ← or → (or ◄◄/►► on the unit) to select frequency, press ↑ or ↓ (or turn the jog dial on the unit) for the desired frequency band to adjust level.
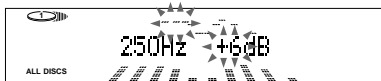
4 Press ENTER.

To cancel the effect

Press EFFECT repeatedly so that "EFFECT OFF" appears in the display.

Note

If you choose another menu of audio emphasis (other than "EFFECT OFF"), the adjusted sound effect is lost. To retain the adjusted sound effect for future use, store it in a personal file. (See "Making a personal audio emphasis file" on page 58.)

57

Making a personal audio emphasis file — Personal file

You can create a personal file of audio patterns (surround effect and graphic equalizer) and store them in the memory of the system. Later call up an audio pattern to play a favourite MD, CD, or radio programme. Create up to five audio files.

Before operation, first select the audio emphasis you want for your basic sound.
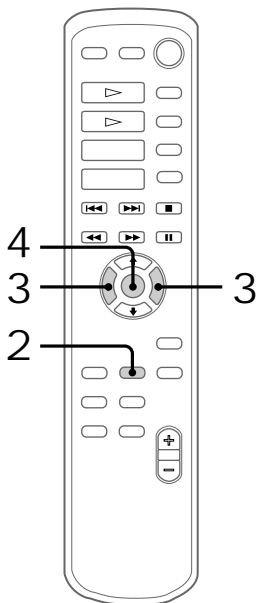
1 Obtain the sound effect you want by using the graphic equalizer and surround effect. (See "Adjusting the graphic equalizer" on page 57, "Selecting surround effects" on page 56 and "Selecting the audio emphasis" on page 55.)

2 Press P FILE.

The personal file number flashes in the display.

Memory F-1

3 Press ← or → to select the file number (P FILE) where you want to store the sound effect.

4 Press ENTER.

The adjusted sound effects are stored under the selected file number. The settings previously stored at this memory location are erased and replaced by the new settings.

Other Features

Labelling the preset stations — Station Name

You can label each preset station with up to 12 characters (Station Name). The Station Name appears when you tune in the station.

I/↺ (Power)

3 1

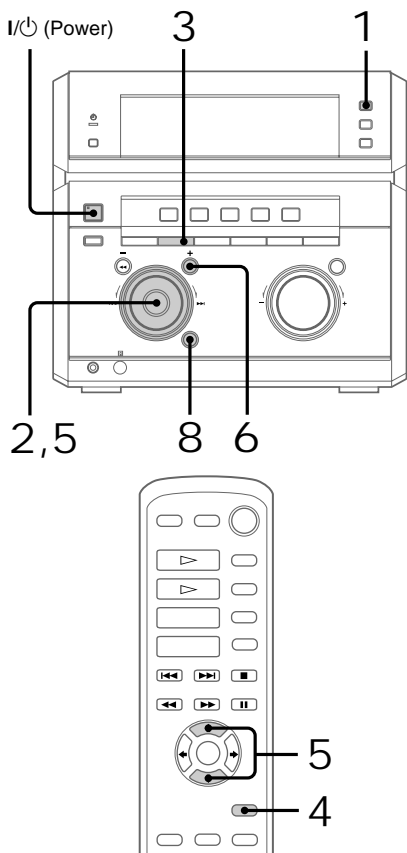**2,5   8 6**

5

4

1 Press TUNER BAND to select the band you want.

2 Turn the jog dial to tune in the desired preset station.

3 Press TUNER NAME.
The text input screen appears, and the cursor flashes.

4 Press CHARACTER on the remote repeatedly to select the desired type of character.
Each time you press the button, the display changes as follow:
␣ (Blank space) → A (Upper cases) → a (Lower cases) → 0 (Numbers) → ' (Symbols) → ␣ (Blank space) → ⋯

5 Turn the jog dial (or press ↑/↓ on the remote) to select the desired character.

To enter a blank space
Press ►► (or → on the remote) without turning the jog dial.

To enter a symbol
You can use the following 24 symbols.
' – / , . ( ) : ! ? & + < > _ = " ; # $ % @ ✶ `

6 Press ►►.
The character you selected in step 5 stops flashing and the cursor shifts to the right.

7 Repeat steps 4 to 6 to complete the entire title.

If you make a mistake
Press ◄◄ or ►► (or ←/→ on the remote) until the character you want to change flashes, then repeat steps 4 to 6.

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

8 Press ENTER to complete the labelling procedure.

continued

Sound Adjustment/Other Features

59

Labelling the preset stations (continued)

To cancel labelling

Press TUNER NAME.

To check the preset number and frequency

The station name appears when you tuned the labelled station.
To check the preset number and frequency, press DISPLAY. The preset number and frequency are displayed for 4 seconds and it returns to the station name display.

To erase the name

1 Repeat steps 1 to 3.
2 Press CLEAR on the remote repeatedly to erase the name.
3 Press ENTER.

Note

When the tuner receives an RDS broadcast, the RDS station name appears instead of the station name you have programmed in the memory.

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 programme signal. This tuner offers convenient RDS features like station name display and location of stations by programme 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 type 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.
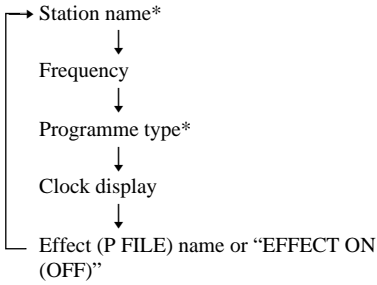
Receiving RDS broadcasts

➡ 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.

To check the RDS information

Each time you press DISPLAY, the display changes as follows:

→ Station name*
↓
Frequency
↓
Programme type*
↓
Clock display
↓
Effect (P FILE) name or "EFFECT ON (OFF)"

* If the RDS broadcast is not received, the station name and programme type may not appear in the display.

Tip

Pressing and holding DISPLAY for 2 seconds or more switches the spectrum analyzer ON/OFF.

Locating a station by programme type (PTY)

You can locate a station you want by selecting a programme type. The system tunes in the type of programmes currently being broadcast from the RDS stations stored in the tuner's preset memory.

I/⏻ (Power)   **1**

2,4   3,5
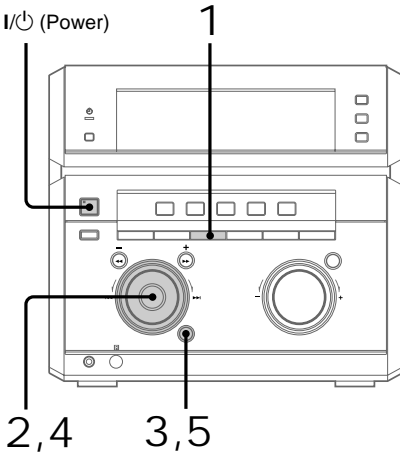
1 Press REPEAT/PTY while listening to the radio.

2 Turn jog dial to select the programme type you want. See the "List of programme types" section below.

3 Press ENTER.

The system starts searching the preset RDS stations ("SEARCH" and the selected programme type are shown alternately in the display).

When the tuner receives a programme, the preset station name flashes.

4 Turn jog dial to display the preset station name you desire.

5 Press ENTER while the preset station name is flashing.

To cancel PTY search

Press REPEAT/PTY again.

List of programme types (PTY)

NEWS

News programmes.

AFFAIRS

Topical programmes that expand on current news.

INFORMATION

Programmes about consumer affairs, medical advice.

SPORT

Sports programmes.

EDUCATION

Educational programmes, such as "how-to" programmes and advice.

DRAMA

Radio plays and serials.

continued

Other Features

61

CULTURE

Programmes about national or regional culture, language, and social concerns.

SCIENCE

Programmes about the natural sciences.

VARIED

Programmes containing celebrity interviews, panel games, and comedy.

POP

Popular music programmes.

ROCK

Rock music programmes.

EASY MUSIC

Easy listening (middle of the road music).

L. CLASSICAL

Classical music, such as instrumental, vocal, and choral works.

S. CLASSICAL

Performances of major orchestras, chamber music, opera, etc.

OTHER MUSIC

Music, such as rhythm and blues and reggae.

WEATHER

Weather information.

FINANCE

Stock market reports and trading, etc.

CHILDREN

Programmes for young.

SOCIAL

Programmes about people and the things that affect them.

RELIGION

Programmes of religious contents.

PHONE IN

Programmes where members of the public express their views by phone or in a public forum.

TRAVEL

Programmes about travel. Not for announcements that are located TP/TA.

LEISURE

Programmes on recreational activities such as gardening, fishing, cooking, etc.

JAZZ

Jazz programmes.

COUNTRY

Country music programmes.

NATION

Programmes featuring the popular music of the country or region.

OLDIES

Programmes featuring oldies music.

FOLK

Folk Music Programmes.

DOCUMENTARY

Investigative features.

ALARM TEST

Test signal for emergency broadcasts.

ALARM-ALARM

Emergency broadcasts.

NONE

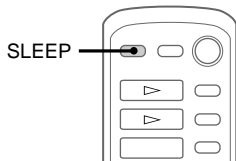Any programming not defined above.

Note

"NO PTY" appears when the programme type you selected is not currently being broadcast.

Falling asleep to music

— Sleep Timer

You can let the system turn off at the preset time, so you can sleep to the music. You can preset the time to be turned off by 10 minutes.

SLEEP ———

➡ Press SLEEP repeatedly to select a desired time.

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

AUTO → 90min → 80min → 70min → … → 10min → OFF → AUTO …

When you choose "AUTO"

The system turns off when the current CD or MD finishes playback (for up to 100 minutes).

To check the remaining time (except when "AUTO" is selected)

Press SLEEP once.

To change the time to turn off

Select the time you want by pressing SLEEP.

To cancel the Sleep Timer function

Press SLEEP repeatedly until "SLEEP OFF" appears.

Waking up to music

— Daily Timer

You can wake up to music at a preset time. Make sure you have set the clock (see page 7).

9

4,5,8 — **4,5,7**

3 — **2**
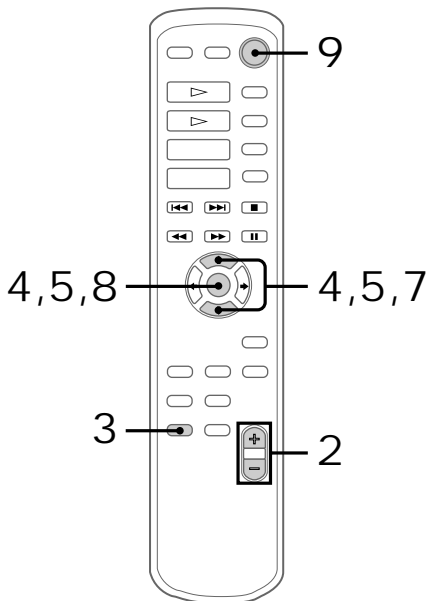
1 Prepare the sound source you want to play.
- CD: Place a CD. To start from a specific track, make a programme (see page 20).
- MD: Insert an MD. To start from a specific track, make a programme (see page 24).
- Radio: Tune in a station (see page 8).

2 Adjust the volume.

3 Press CLOCK/TIMER SET.
"SET (DAILY 1)" appears.

continued

Other Features

63

Waking up to music (continued)

4 Press ▲ or ▼ to select DAILY 1 or 2, then press ENTER.

"ON" lights up and the hour indication flashes.

> ON ⁞0⁞00

5 Set the time to start playing.

Press ▲ or ▼ repeatedly to set the hour, then press ENTER.
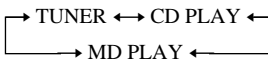
The minute indication flashes.

> ON 7⁞00⁞

Press ▲ or ▼ repeatedly to set the minute, then press ENTER.

The hour indication flashes again.

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

7 Press ▲ or ▼ repeatedly to select the desired sound source.

The indication changes as follows:

→ TUNER ←→ CD PLAY ←
→ MD PLAY ←

8 Press ENTER.

The type of timer (DAILY 1 or DAILY 2), appears followed by the start time, stop time and the sound source, then the original display appears.

9 Press I/⏻ to turn off the system.

To check the setting

1 Press TIMER SELECT.

2 Press ▲ or ▼ to select the respective mode (DAILY 1 or 2), then press ENTER.

To cancel the timer

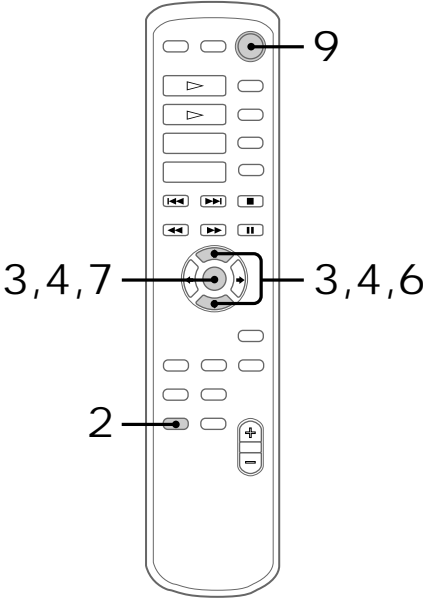Press TIMER SELECT and press ▲ or ▼ to select "TIMER OFF", then press ENTER.

Tip

The system turns on 30 seconds before the preset time.

Notes

- You cannot activate DAILY 1 and DAILY 2 at the same time.
- You cannot activate Daily Timer and recording timer at the same time.
- When you use the Daily Timer at the same time as the Sleep Timer, the Sleep Timer setting has priority.

64

Timer-recording radio programmes

To timer record, you must first preset the radio station (see page 8) and set the clock (see page 7).

1 Tune in the preset radio station (see page 16).

2 Press CLOCK/TIMER SET.
"SET (DAILY 1)" appears.

3 Press ✦ or ✦ to select "SET MD REC", then press ENTER.
"ON" lights up, and the hour indication flashes.

$$\text{ON} \quad \text{0}\colon\text{00}$$

4 Set the time to start recording.
Press ✦ or ✦ repeatedly to set the hour, then press ENTER.
The minute indication flashes.

$$\text{ON} \quad \text{23}\colon\text{00}$$

Press ✦ or ✦ repeatedly to set the minute, then press ENTER.
The hour indication flashes again.

5 Set the time to stop recording following the procedure in step 4.

6 Press ✦ or ✦ repeatedly to select the recording mode you want to record in.
Each time you press the button, the display changes as follow:

→ STEREO REC (Stereo)
↓
LP2 REC (2 times stereo)
↓
LP4 REC (4 times stereo)
↓
MONO REC (Monaural)
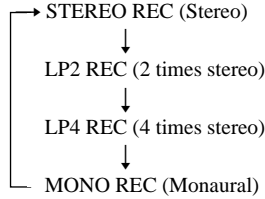
7 Press ENTER.
The timer recording settings appear, then the original display returns.

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

9 Press I/⏻ to turn off the system.

Other Features

65

Timer-recording radio programmes (continued)

To check the setting

1 Press TIMER SELECT.

2 Press ✦ or ✦ to select "SEL MD REC", then press ENTER.

To cancel the timer

Press TIMER SELECT and press ✦ or ✦ to select "TIMER OFF", then press ENTER.

Notes

- If the system is on at the preset time, the recording will not be made.
- The volume is reduced to minimum during recording.
- You cannot activate DAILY 1 and DAILY 2 at the same time.
- When you use the recording timer at the same time as the Sleep Timer, the Sleep Timer setting has priority.
- Do not operate the system from the time the system turns on until the recording starts (about 30 seconds before the preset time).

Connecting optional A/V components

To enhance your system, you can connect optional components. Refer to the operating instructions of each component.
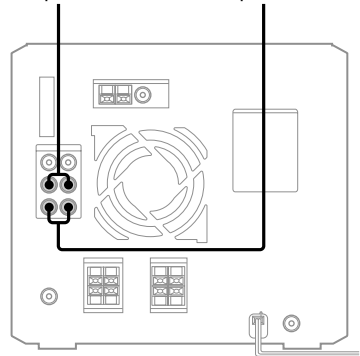
Connecting audio components

Connecting a tape deck for analogue recording

You can connect a tape deck to the system with commercially available audio cords. Be sure to match the colour-coded pins to the appropriate jacks.
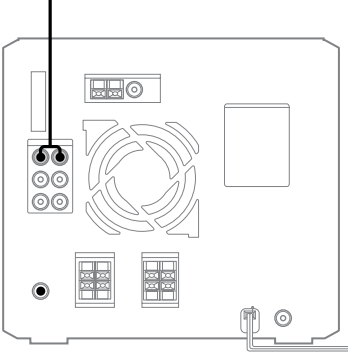
To the audio output on the tape deck   To the audio input on the tape deck

66

Connecting a VCR

You can connect a VCR to the system with a commercially available audio cord. Be sure to match the colour-coded pins to the appropriate jacks. To listen to the VCR after connecting it, press VIDEO.

To the audio output on the VCR

Connecting a super woofer speaker

Connect an optional super woofer speaker to the SUPER WOOFER OUT jack.

To super woofer

Connecting rear speakers

Connect the speaker cords to the REAR SPEAKER terminals.

To right rear speaker   To left rear speaker
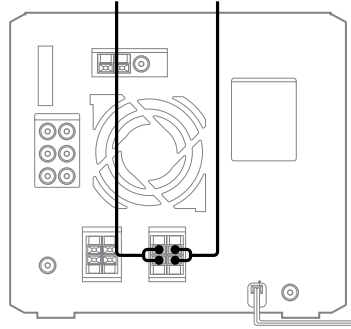
Connecting headphones

Connect headphones to the PHONES jack.
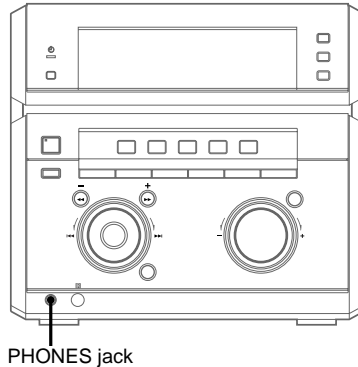
PHONES jack

To listen through the headphones

No sound will come from the speakers.

Note

If you have connected a super woofer, please note that sound comes from the super woofer even when the headphones are connected. Turn off the power of the super woofer when using headphones.

Connecting external aerials

Connect the external aerial to improve reception.

FM aerial

Connect an commercially available FM outdoor aerial, or you can use a TV aerial instead.

Jack type Ⓐ

IEC standard socket connector (not supplied)
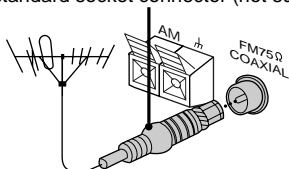
Jack type Ⓑ
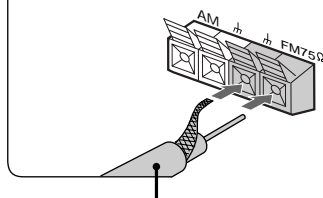
75-ohm coaxial cable (not supplied)

AM aerial

Connect a 6- to 15- meter insulated wire to the AM aerial terminal. Leave the supplied AM loop aerial connected.

Jack type Ⓐ

Insulated wire (not supplied)
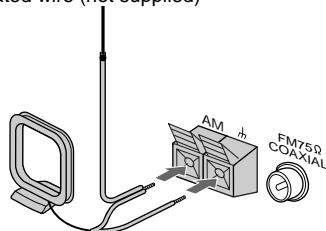
Jack type Ⓑ

Insulated wire (not supplied)
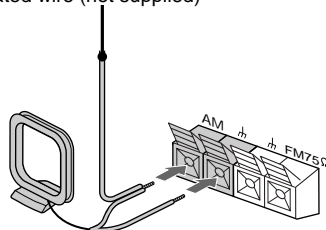
Important

If you connect an outdoor aerial, connect a ground wire to the ⏚ terminal. To prevent a gas explosion, do not connect the ground wire to a gas pipe.

Note

Set up the AM loop aerial as far as possible from the main unit.

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 cord 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.
• The AC power cord (mains lead) must be changed only at the qualified service shop.

On placement

• Place the system in a location with adequate ventilation to prevent heat build-up in the system.
• 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
  — Vibrating
  — Subject to direct sunlight.

On operation

• If the stereo 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.

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.

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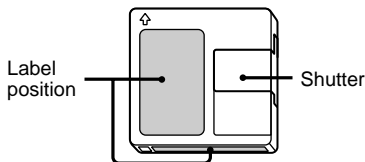
• Wipe the disc cartridge with a dry cloth to remove dirt.
• Do not expose the MD to direct sunlight or heat sources such as hot air ducts, nor leave it in a car parked in direct sunlight.

Notes on CDs

• Before playing, clean the CD with a cleaning cloth. Wipe the CD from the centre out.
• Do not use solvents such as benzene, thinner, commercially available cleaners or antistatic spray intended for vinyl LPs.
• Do not expose the CD to direct sunlight or heat sources such as hot air ducts, nor leave it in a car parked in direct sunlight.
• When using CDs that have glue or similar tacky substance on the label side of the disc or that used a special ink when the label was printed, there is a chance that the CD or label may become attached to parts inside this unit. When this occurs, it may not be possible to remove the CD, and may also cause this unit to malfunction. Be sure to check that the label side of the CD is not sticky before using.
  The following types of CD should not be used:
  — Rental or used CDs with attached seals where the glue extends beyond the seal. The perimeter of the seal on the CD is tacky.
  — CDs that have labels printed using a special ink that feels tacky when touched.

Note on High-Speed CD-MD Synchro-Recording

Certain CD conditions may cause sound dropout or noise in the recording results, or even create unwanted tracks on the MD. If this happens, clean the CD, and record material to the MD using normal-speed CD-MD Synchro Recording only.

Connecting optional components/ Additional Information

Precautions (continued)

Cleaning the cabinet

Use a soft cloth slightly moistened with mild detergent solution.

To remove the speaker grille

Use both hands and pull the grille straight forward to prevent the ribs from breaking.

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 mode: about 24 seconds
　In LP4 mode: about 48 seconds

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 mode: about 4 seconds
　In LP4 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 "L-SYNC" (page 34) 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)

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

The display starts flashing as soon as you plug in the mains lead even though you have not turned on the system (demonstration mode).
• Press DISPLAY (European model) or DEMO (STANDBY) (other models) when the system is turned off.
  The demonstration disappears.
  The demonstration mode appears automatically the first time you plug in the mains lead or if there is a power failure lasting longer than half a day.

The clock setting/radio presetting/timer is cancelled.
• The mains lead is disconnected or a power failure occurs longer than half a day.
  Redo the followings:
  — "Step 2: Setting the time" on page 7
  — "Step 3: Presetting radio stations" on page 8
  If you have set the timer, also redo "Waking up to music" on page 63 and "Timer-recording radio programmes" on page 65.

"– –:– –" lights up in the display.
• Set the clock and timer again.

There is no sound.
• Turn VOLUME clockwise.
• The headphones are connected.
• Insert only the stripped portion of the speaker cord into the SPEAKER jack. Inserting the vinyl portion of the speaker cord will obstruct the speaker connections.
• There is no audio output during timer recording and High-Speed CD-MD Synchro Recording.

continued

There is severe hum or noise.

- A TV or VCR is placed too close to the system. Move the system away from the TV or VCR.
- The A/V control amplifier is placed under the CD player/MD deck. Place the A/V control amplifier on top of the CD player/MD deck.

The timer does not function.

- Set the clock correctly.

"SEL DAILY 1", "SEL DAILY 2", and "SEL MD REC" do not appear when you press TIMER SELECT.

- Set the clock.
- Set the timer correctly.

The remote does not function.

- There is an obstacle between the remote and the system.
- The remote is not pointing in the direction of the system's sensor.
- The batteries have run down. Replace the batteries.

There is acoustic feedback.

- Decrease the volume level.

The colour irregularity on a TV screen persists.

- Turn off the TV set once, then turn it on after 15 to 30 minutes. If the colour irregularity still persists, place the speaker farther away from TV set.

"PROTECT" and "PUSH POWER" appear alternately.

- A strong signal was input. Press I/$\circlearrowleft$ to turn off the system, leave the system turned off for a while, then press I/$\circlearrowleft$ again to turn on the system. If "PROTECT" and "PUSH POWER" appear alternately even after the power is turned on again, press I/$\circlearrowleft$ to turn off the system and check the speaker cords are connected properly. (+ and – should not be touching.)

Speakers

No sound is output.

- Monitoring of the recorded signal is not possible during High-Speed CD-MD Synchro-Recording.

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

- Check the speaker connection and speaker placement.

Sound lacks bass.

- Check that the speaker's + and – jacks are connected correctly.

CD Player

The CD tray does not close.

- The CD is not placed properly.

The CD will not play.

- The CD is not lying flat in the disc tray.
- The CD is dirty.
- The CD is inserted label side down.
- Moisture condensation has built up. Remove the CD and leave the system turned on for about an hour until the moisture evaporates.

Play does not start from the first track.

- The player is in programme or shuffle mode. Press PLAY MODE repeatedly in CD stop mode until "PROGRAM" or "SHUFFLE" disappear.

"Over" is displayed.

- You have reached the end of the CD. Press and hold ◀◀ or turn the jog dial to return.

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" turns off.

72

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.

Play does not start from the first track.

- Press PLAY MODE repeatedly in MD stop mode until "PROGRAM" or "SHUFFLE" disappears to return to normal play.

"Over" appears.

- Press and hold ◄◄ or turn MD JOG to return to the desired playing position.

"OVER" lights during recording.

- Set the volume of the connected component lower.

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 27 and 40).

Recording is not possible.

- Remove the MD and slide the tab to close the slot (see page 27).
- Connect the optional A/V component properly (see page 66).
- Switch to another sound source.
- Replace the MD with a recordable MD, or use the Erase Function to erase unnecessary tracks (see page 43).
- Start recording over from the beginning.

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

- Readjust the recording level (see page 37).

Tuner

There is severe hum or noise ("TUNED" or "STEREO" flashes in the display).

- Adjust the aerial.
- The signal strength is too weak. Connect the external aerial.

A stereo FM programme cannot be received in stereo.

- Press STEREO/MONO so that "STEREO" appears.

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

1 Unplug the power cord.

2 Plug the power cord back in.

3 Press CLEAR and CD □ at the same time.

4 Press I/⏻ to turn on the power.

The system is reset to the factory settings. All the settings you made such as the preset stations, clock and timer are cleared and must be set again. If the system still does not operate properly, press GROOVE and I/⏻ at the same time in step 3 above.

Additional Information

73

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 or five 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.
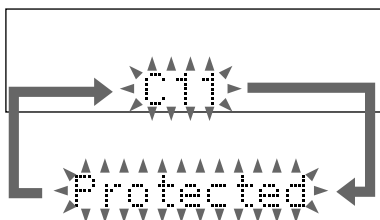
C11/Protected
The MD is protected against erasure.
➔Remove the MD and slide the tab to close the slot (page 27).

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 44.

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 71). 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 about 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 during Programme or Shuffle Play.
• You tried to change the recorded level or perform Fade-in or Fade-out operation after the Daily Timer or Recording Timer had activated and turned on the power.

Cannot REC
The function is switched to 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 the tracks due to the system limitations of MDs.

Incomplete!

The S.F Edit (changing the recording level after recording, Fade-in, Fade-out) operation was not performed properly because the system was moved while recording was in progress or the MD is damaged or dirty .

Initialize

The power was off for a long time, so the system is initializing itself.

Name Full!

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

MD No Disc

There is no disc in the MD deck.

MD No Name

You tried to show the title of a non-labelled disc or track. Track number is displayed followed by "MD" in case of a track.

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.

Over

You have reached the end of the MD while pressing and holding ▶▶ during playing pause.

Overwrite

You specified recording over recorded tracks on an MD during recording.

Push MD STOP

You pressed PLAY MODE 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 about 3 or more but less than about 30 seconds during digital recording.

SYNC NOW

You pressed a button not needed for recording during Synchro-recording.

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.

USE MD AREA!

You tried to perform an operation with the jog dial, ◀◀ or ▶▶ on the A/V control amplifier with the function set to MD.
Use MD JOG, MD ◀◀ or ▶▶.

continued

Additional Information

75

TUNER

Cannot Edit

You tried to label or erase a non-preset station.

CD

"Check" and "CD Position" appear alternately

The disk could not be read properly.

No disc

There is no disc in the CD player.

Over

You have reached the end of the CD while pressing and holding ▶▶ during pause.

Push CD stop!

You pressed PLAY MODE during play.

Specifications

Amplifier section

European model

DIN power output (rated)   80 + 80 watts
                          (6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference)
                          100 + 100 watts
                          (6 ohms at 1 kHz, 10% THD)
Music power output (reference)
                          160 + 160 watts
                          (6 ohms at 1 kHz, 10% THD)

Other models

DIN power output (rated)   90 + 90 watts
                          (6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference)
                          110 + 110 watts
                          (6 ohms at 1 kHz, 10% THD)

Inputs
VIDEO IN: voltage 250 mV
(phono jacks)   impedance 47 kilohms
TAPE IN: voltage 250 mV
(phono jacks)   impedance 47 kilohms
Outputs
TAPE OUT: voltage 250 mV
(phono jacks)   impedance 1 kilohms
PHONES: accepts headphones of 8 ohms or
(stereo mini jack)   more
FRONT SPEAKER: accepts impedance of 6 to 16 ohms
REAR SPEAKER: accepts impedance of 16 ohms
SUPER WOOFER: voltage 1 V, impedance 1 kilohms

CD player section

System   Compact disc and digital audio
                system
Laser   Semiconductor laser
                (λ=780 nm)
                Emission duration: continuous
Laser output   Max. 44.6 µW*
                *This output is the value measured
                at a distance of 200 mm from the
                objective lens surface on the
                Optical Pick-up Block with 7 mm
                aperture.
Wavelength   780 – 790 nm
Frequency response   20 Hz – 20 kHz ($\pm$0.5 dB)
Signal-to-noise ratio   More than 90 dB
Dynamic range   More than 90 dB

MD deck section

System	MiniDisc digital audio system
Laser	Semiconductor laser
	(λ=780 nm)
	Emission duration: continuous
Laser output	Max. 44.6 μW*
	*This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block with 7 mm aperture.
Sampling frequency	44.1 kHz
Frequency response	20 Hz – 20 kHz

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range	
Tourist model:	76.0 – 108.0 MHz
Other models:	87.5 – 108.0 MHz
Aerial	FM lead aerial
Aerial terminals	75 ohm unbalanced
Intermediate frequency	10.7 MHz

AM tuner section

Tuning range	
European models:	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
Aerial terminals	External aerial terminal
Intermediate frequency	450 kHz

Speaker
Front Speaker (SS-NX1)

Speaker system	2-way, bass-reflex type, magnetically shielded type
Speaker units	
Woofer:	17 cm, cone type
Tweeter:	2.5 cm, dome type
Nominal impedance	6 ohms
Dimensions (w/h/d)	Approx. 210 $\times$ 402 $\times$ 285 mm
Mass	Approx. 7.0 kg net per speaker

General

Power requirements	
European models:	230 V AC, 50/60 Hz
Other models:	120 V, 220 V or 230 – 240 V AC, 50/60 Hz Adjustable with voltage selector
Power consumption	
European models:	190 watts
Other models:	220 watts
Dimensions (w/h/d)	
STR-NX5MD:	Approx. 225 $\times$ 202 $\times$ 356 mm
HMC-NX5MD:	Approx. 225 $\times$ 202 $\times$ 356 mm
Mass	
STR-NX5MD:	
European models:	Approx. 7.8 kg
Other models:	Approx. 7.6 kg
HMC-NX5MD:	Approx. 4.3 kg
Supplied accessories:	AM loop aerial (1)
	Remote Commander (1)
	Batteries (2)
	FM lead aerial (1)
	Speaker cords (2)
	Front speaker pads (8)

Design and specifications are subject to change without notice.

Additional Information

Index

Additional Information

Sony online

http://www.world.sony.com/