Micro HiFi Component System

Operating Instructions

Owner's Record

The model and serial numbers are located on the rear panel of the unit. Record the serial number in the space provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. CMT-CP33MD   Serial No. _____

CMT-CP33MD

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.
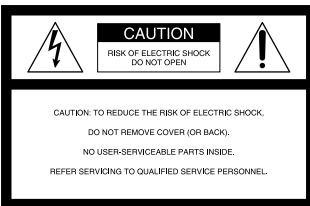
AЯ46

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 SICHERHEITSVERRIEGELUNG ÜBERBRÜCKT, NICHT DEM STRAHL AUSSETZEN.
VARO! : AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALT-TINA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VARNING : OSYNLIG LASERSTRÅLNG NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD, BETRAKTA EJ STRÅLEN.
ADVERSEL : USYNLIG LASERSTRÅLNG NÄR DEKSEL ÅPNES OG SIKKERHEDSLÅS BRYTES, UNNGÅ EKSPONERING FOR STRÅLEN.
VIGYÁZÁT! : 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.

NOTICE FOR THE CUSTOMERS IN THE U.S.A.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

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

INFORMATION
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

– Reorient or relocate the receiving antenna.
– Increase the separation between the equipment and receiver.
– Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
– Consult the dealer or an experienced radio/TV technician for help.

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

NOTICE FOR THE CUSTOMERS IN CANADA

CAUTION
TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS POLARIZED AC PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

This system is equipped with the Dolby* B-type noise reduction system.

* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol □□ are trademarks of Dolby Laboratories Licensing Corporation.

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The CD Player

The MD Deck — Play

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* European model only

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Step 1: Hooking up the system

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

AM loop antenna

FM antenna

Right speaker

Left speaker

2

1

4 **3**
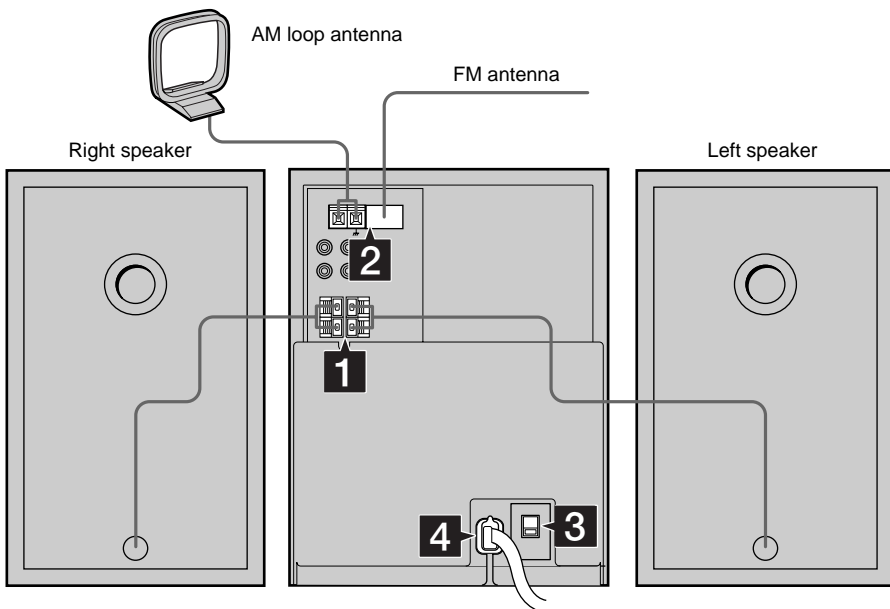
1 Connect the speakers.

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

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

R

L

Black (⊖)

Red (⊕)

Insert this portion
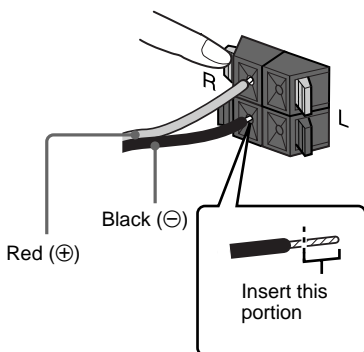
2 Connect the FM/AM antennas.

Set up the AM loop antenna, then connect it.

Jack type Ⓐ

ANTENNA

AM loop antenna

AM ⌶

FM75Ω

Extend the FM lead antenna horizontally

4

Jack type Ⓑ

AM loop
antenna

ANTENNA

Insert this
portion

3 For models with a voltage selector, set
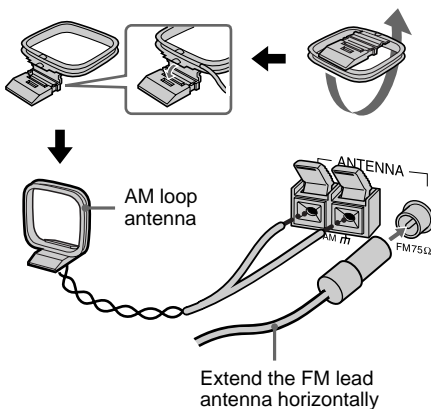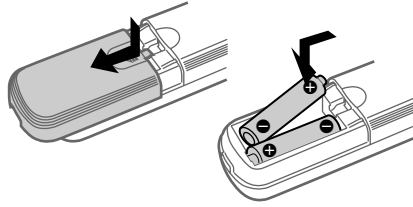VOLTAGE SELECTOR to the local
power line voltage.

110V – 120V

220V – 240V
VOLTAGE
SELECTOR

4 Connect the power cord to a wall outlet.

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

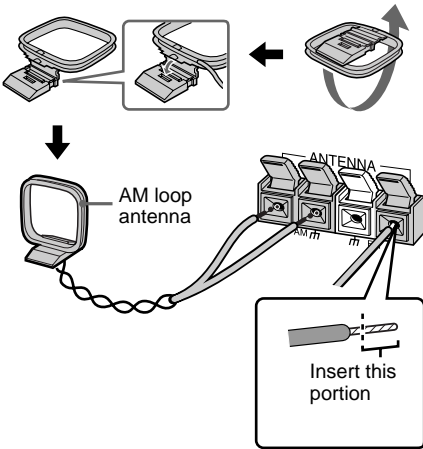## Inserting two size AA (R6) batteries into the remote

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.

Getting Started

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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.

CURSOR←

3,5

DISPLAY
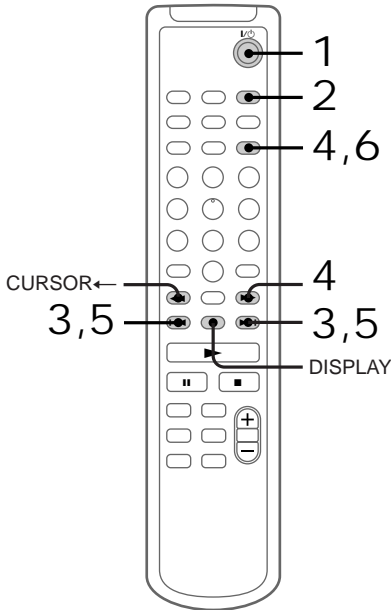
1 Turn on the system.

2 Press CLOCK/TIMER SET.

The clock appears and the hour indication flashes.

3 Press �◄◄ or ►►ı to set the hour.

4 Press ENTER/YES or CURSOR→.
The minute indication flashes.
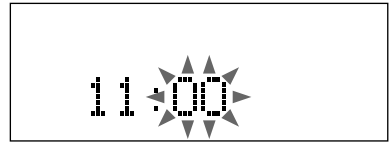
5 Press ◄◄ or ►►ı to set the minute.

6 Press ENTER/YES.
The clock starts.

If you made a mistake

Press CURSOR← or → repeatedly until the incorrect item flashes, then set it again.

To change the preset time

You can change the preset time while the system is off.

1 Press DISPLAY to display the clock.

2 Press CLOCK/TIMER SET.

3 Repeat steps 3 to 6 of "Setting the time."

Tip

The upper dot of the colon flashes for the first 30 seconds, and the lower dot flashes for the last 30 seconds of each minute.

Step 3: Presetting radio stations

You can preset up to 30 stations, 20 for FM and 10 for AM.

STEREO/MONO

FUNCTION **2 1 3**

4 5,6

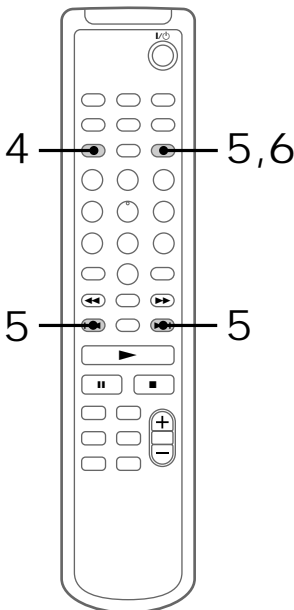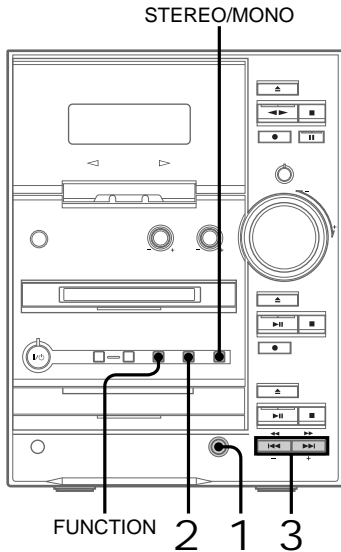**5 5**

1 Press TUNER/BAND to select "FM" or "AM."

Pressing TUNER/BAND turns on the system.

2 Press TUNING MODE repeatedly until "AUTO" appears.

DSG

AUTO   LEVEL–SYNC

FM 87.50MHz
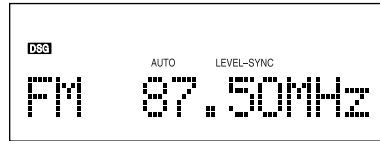
3 Press TUNING + or –.

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

4 Press MENU/NO on the remote.

5 Press |◀◀ or ▶▶| on the remote repeatedly until "P.Memory ?" appears, then press ENTER/YES on the remote.

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

TUNED

DSG

AUTO   LEVEL–SYNC

Memory FM 1

Preset number
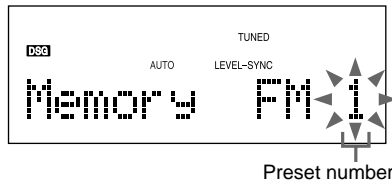
6 Press ENTER/YES.

"Complete !!" appears, and then the station is stored.

7 Repeat steps 1 to 6 to preset other stations.

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Step 3: Presetting radio stations (continued)

To stop scanning
Press TUNING MODE.

To tune in a station with a weak signal
Press TUNING MODE repeatedly until "AUTO" and "PRESET" disappear from the display in step 2, then press TUNING + or – repeatedly to tune in the station manually.

To set another station to the exist preset number
Start over from step 1. After step 5, press ⏮ or ⏭ on the remote to select the preset number on which you want to store the station.

To erase a preset station
1 Press MENU/NO on the remote.
2 Press ⏮ or ⏭ repeatedly until "P.Erase ?" appears.

Select "P.All Erase ?" when you want to erase all the preset stations.
3 Press ENTER/YES on the remote.
4 Press ⏮ or ⏭ repeatedly to select the preset number you want to erase.
5 Press ENTER/YES.

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

Tips
• The preset stations are retained for about a day even if you disconnect the power cord or if a power failure occurs.
• You can label the preset stations (see page 63).
• When an FM stereo program has static noise, press STEREO/MONO until "MONO" scrolls in the display. There will be no stereo effect, but the reception will improve. Press the button again to restore the stereo effect.

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Playing a CD

To turn on the system, press I/⏻(power).

I/⏻ (power)

FUNCTION VOLUME

1

CD indicator   **2**   ⏮/⏭ CD■
                         ◀◀/▶▶

1 Press CD ▲ and place a CD on the disc tray.

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

To close the disc tray, press CD ▲ again.
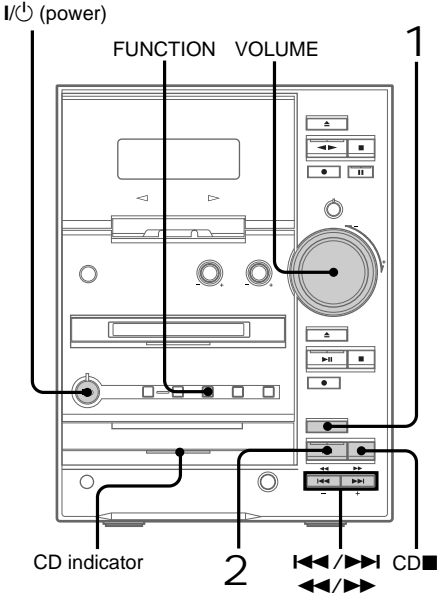
2 Press CD ▶II

The disc tray closes and play starts.
The indicator on the CD ▶II button lights green.

Track number   Playing time
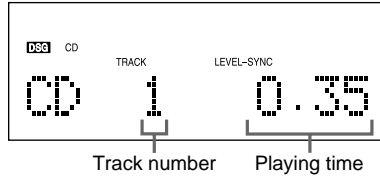
To	Do this
Stop play	Press CD ■.
Pause	Press CD ▶II. The indicator on the CD ▶II button lights orange. Press again to resume play.
Select a track	Press ⏮ or ⏭ repeatedly.
Find a point in a track	Press and hold ◀◀ or ▶▶ during play and release it at the desired point. "—OVER—" appears at the end of the CD.
Remove the CD	Press CD ▲.
Adjust the volume	Turn VOLUME.

Getting Started/Basic Operations

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Tips

- If you turn on the system when there is a CD on the disc tray, the CD indicator lights orange.
- If there is no CD in the player, "CD No Disc" appears in the display.
- Pressing CD ►❙❙ 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**).
- You can switch from another source to the CD player and start playing a CD just by pressing CD ►❙❙ (**Automatic Source Selection**).
- You can start playing from the desired track in step 2.
  1 Press ❙◄◄ or ►►❙ repeatedly until the desired track appears.
  2 Press CD ►❙❙.
  Or, press the number buttons on the remote. The playback automatically starts. To enter track numbers 10 or over, press >10 and the track number. To enter 0, use the 10/0 button.

Notes

- Do not use a CD with tape, seals or paste on it as this may damage the CD player.
- Do not push the disc tray to close it, as this may damage the CD player. Press CD ▲ to close the disc tray.
- If you press CD ▲ to open or close the disc tray while listening to another sound source, the CD indicator lights orange even if there is no CD in the tray.
  To turn off the CD indicator, press FUNCTION repeatedly to switch the function to CD.

Recording a CD on an MD or a tape

You can make a digital recording of a CD on an MD or an analog recording on a tape.
You can also record a program of favorite tracks (see pages 32 and 56).

To turn on the system, press I/⏻(power).

Recording 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 47.

I/⏻ (power)   MD▲   MD■

4 5,6 2,3   CD■

ENTER/YES
NAME EDIT

10

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 CD ▲ and place a CD on the disc tray.

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

3 Press CD ▲ to close the disc tray.

4 Press SYNCHRO REC repeatedly until "CD-MD SYNC" appears.

5 Press ENTER/START.

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

```
                                    CD
                            SYNC REC
          TRACK   LEVEL-SYNC      MD  TAPE
CD    1        0.00
```
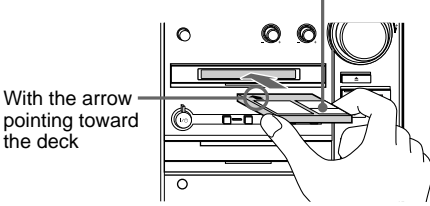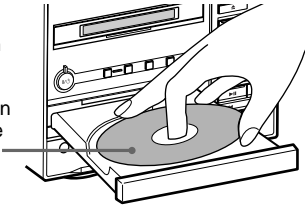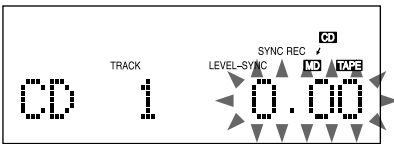
6 Press ENTER/START again.

Recording starts.

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

To stop recording

Press CD ■ or MD ■

Tips

• The track numbers of the CD are recorded on to the MD automatically.
• Depending on the disc, CD TEXT information may also be recorded (except when you record on an MD and a tape at the same time). If "CD-TEXT" flashes during recording, press NAME EDIT on the remote, and then press ENTER/YES on the remote to record the title of the current track. (If "CD-TEXT" is lit, it is automatically recorded.)

Note

If "Cannot SYNC" appears, a disc is not loaded or you cannot record on that MD (see page 79).

If the MD becomes full during recording

The CD player and the MD deck stop automatically.

### Before pulling out the power cord

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 power cord before updating the TOC (while "TOC" is lit) or while updating the TOC (while "TOC" or "STANDBY" is flashing) to ensure a complete recording.

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Recording a CD on an MD or a tape (continued)

Recording on a tape

You can use TYPE I (normal) or TYPE II (CrO2) tape. The recording level is automatically adjusted.

I/(1) (power)

5,7   6   DOLBY   2,3   CD■
                       NR*
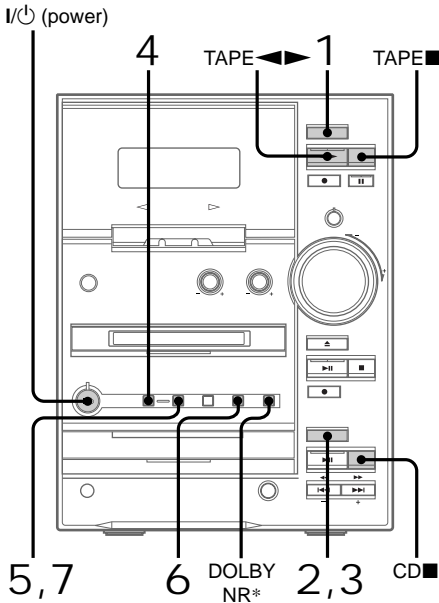
* This tape deck is equipped with the Dolby B-type noise reduction system.

1 Press TAPE ▲ and insert a blank tape.

With the side you want to record on facing you
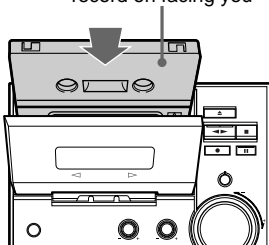
2 Press CD ▲ and place a CD on the disc tray.

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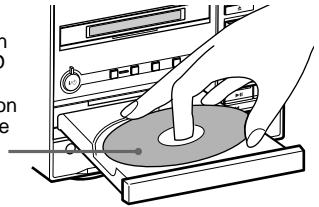
3 Press CD ▲ to close the disc tray.

4 Press SYNCHRO REC repeatedly until "CD-TAPE SYNC" appears.

5 Press ENTER/START.
The tape deck stands by for recording and the CD player pauses for play.
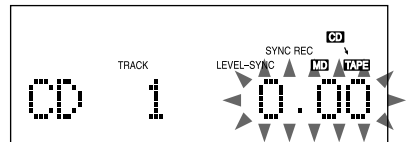
6 Press DIRECTION repeatedly until ⇄ appears to record on one side or ⇄ (or ⇄) to record on both sides.

7 Press ENTER/START.
Recording starts.
When the recording is completed, the CD player and the tape deck stop automatically.

To stop recording

Press CD ■ or TAPE ■

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Tips
- When you want to record on the reverse side, press TAPE ◄► to light up the left indicator in step 6.
- When you record on both sides, be sure to start from the front side. If you start from the reverse side, recording stops at the end of the reverse side.
- If you select both sides recording and the tape reaches the end of the front side part-way through a track, the entire track is recorded again from the beginning of the reverse side.
- When you want to reduce the hiss noise in low-level, high-frequency signals, press DOLBY NR after step 5 so "□□" appears in the display.

Note
If "Cannot SYNC" appears, a disc or a tape is not loaded or you cannot record on that tape (see page 80).

Recording on an MD and a tape at the same time

1 Perform step 1 of "Recording on an MD" (see page 10) and steps 1 to 3 of "Recording on a tape" (see page 12).

2 Press SYNCHRO REC repeatedly until "DUAL SYNC" appears.

3 Perform steps 5 to 7 of "Recording on a tape."

To stop recording
Press CD ■ MD ■ or TAPE ■

Tips
- Even if the MD or the tape ends part-way through the recording, the other continues recording.
- If you select both sides recording and the tape reaches the end of the front side part-way through a track, the entire track is recorded again from the beginning of the reverse side. In this case, the entire track may also be recorded again on the MD.

Note
If "Cannot SYNC" appears, a disc or a tape is not loaded or you cannot record on that tape (see pages 79 and 80).

Basic Operations

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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 indicator   **2** |◀◀ /▶▶| MD■
                         ◀◀/▶▶
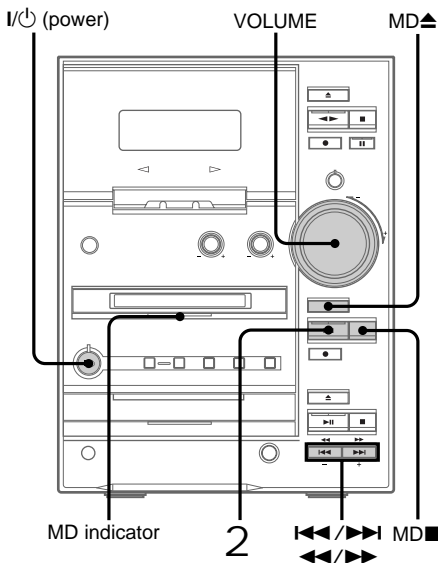
1 Insert an MD.

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

With the arrow pointing toward the deck

2 Press MD ▶II

Play starts.
The indicator on the MD ▶II button lights green.

Track number   Playing time
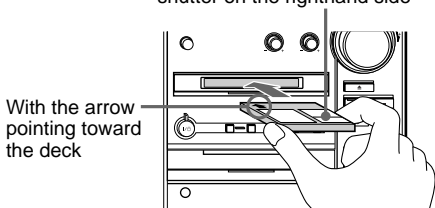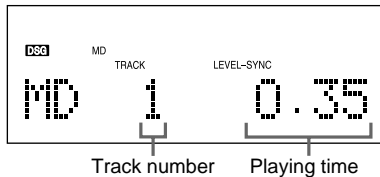
To	Do this
Stop play	Press MD ■.
Pause	Press MD ▶II. The indicator on the MD ▶II button lights orange. Press again to resume play.
Select a track	Press |◀◀ or ▶▶| repeatedly.
Find a point in a track	Press and hold ◀◀ or ▶▶ during play and release it at the desired point.
Remove the MD	Press MD ⏏.
Adjust the volume	Turn VOLUME.

Before inserting an MD

When the system is on, make sure the MD indicator is off. If the MD indicator is lit orange, another MD is already inserted. Press MD ⏏ and remove the MD.

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Tips

- Pressing MD ►II 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**).
- You can switch from another source to the MD deck and start playing an MD just by pressing MD ►II (**Automatic Source Selection**).
- You can start playing from the desired track in step 2.

  1 Press I◄◄ or ►►I repeatedly until the desired track appears.

  2 Press MD ►II.

  Or, press the number buttons on the remote.
  The playback automatically starts. To enter track numbers 10 or over, press >10 (press twice to enter 100 or over) and the track number. To enter 0, use the 10/0 button.

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.

Playing a tape

You can use any type of tape, TYPE I (normal), TYPE II (CrO2) or TYPE IV (metal), since the tape deck automatically detects the tape type (ATS*).

To turn on the system, press I/⏻(power).

I/⏻ (power)
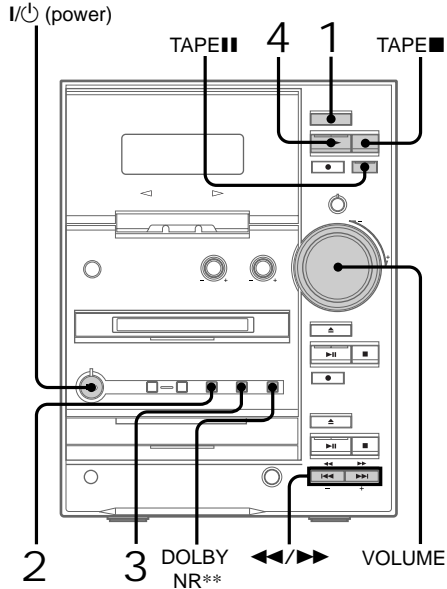
* ATS: Automatic Tape Selection

** This tape deck is equipped with the Dolby B-type noise reduction system.

1 Press TAPE ▲ and insert a recorded tape.

With the side you want to play facing you
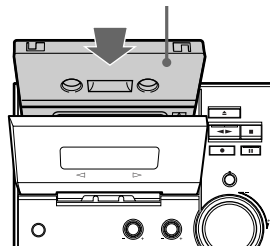
continued

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2 Press FUNCTION repeatedly to switch the function to TAPE.

3 Press DIRECTION repeatedly until ⇌ appears to play one side or ⇌ (or ⟳*) to play both sides.

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

4 Press TAPE ◄►

   The right indicator on the TAPE ◄► button lights up, then the tape starts playing from the front side.
   To change the playback direction, press TAPE ◄► again. The left indicator lights up, then the reverse side starts playing.

| To	Do this
Stop play	Press TAPE ■.
Pause	Press TAPE II. The indicator on the TAPE II button lights up. Press again to resume play.
Fast-forward or rewind	Press ◄◄ or ►►.
Remove or replace the tape	Press TAPE ▲.
Adjust the volume	Turn VOLUME.

Tips
- Pressing TAPE ◄► when the system is off automatically turns on the system and starts playing a tape if there is a tape in the system (**One Touch Play**).
- You can switch from another source to the tape deck and start playing a tape just by pressing TAPE ◄► (**Automatic Source Selection**).
- To listen to a tape recorded with the Dolby noise reduction system, press DOLBY NR so "□□" appears in the display.

Recording a tape on an

MD — TAPE-MD Synchro Recording

You can make an analog recording of a tape on an MD. You can use TYPE I (normal), TYPE II (CrO_2) or TYPE IV (metal) tape, since the tape deck automatically detects the tape type.

To turn on the system, press I/⟳(power).
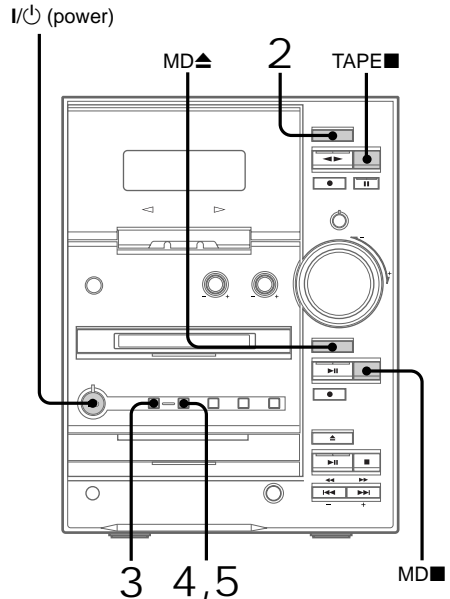
I/⟳ (power)

MD▲   **2**   TAPE■

3 **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

16
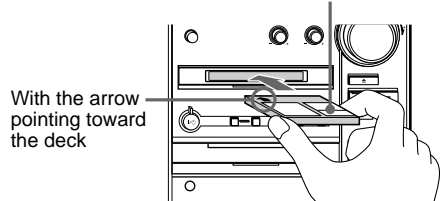
2 Press TAPE ▲ and insert a tape.
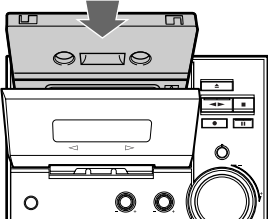
3 Press SYNCHRO REC repeatedly until "TAPE-MD SYNC" appears.

4 Press ENTER/START.

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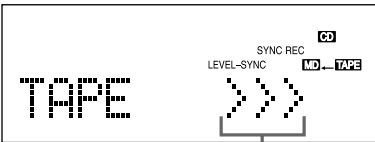
Tape playback side

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

5 Press ENTER/START again.

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

To stop recording

Press TAPE ■ or MD ■

Tips

• If you use a partially recorded MD, recording starts after the recorded tracks.
• If the Smart Space function is on and there is no sound input for about 3 seconds or more (but less than 30 seconds) while recording, the MD deck replaces this silence with a blank of about 3 seconds and continues recording. However, this function may not activate if there is noise.

Note

If "Cannot SYNC" appears, a disc is not loaded or you cannot record on that MD (see page 79).

If the MD becomes full during recording

The tape deck and the MD deck stop automatically.

Before pulling out the power cord

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 power cord before updating the TOC (while "TOC" is lit) or while updating the TOC (while "TOC" or "STANDBY" is flashing) to ensure a complete recording.

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Listening to the radio

— Preset Tuning

Preset radio stations in the tuner's memory first (see page 7).
To turn on the system, press I/⏻(power).
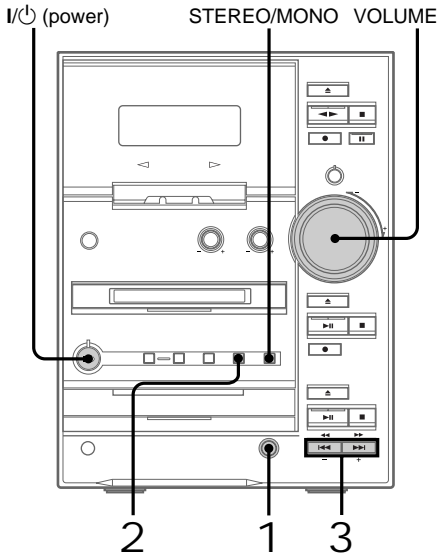
I/⏻ (power)   STEREO/MONO   VOLUME

2   1   3

1 Press TUNER/BAND to select "FM" or "AM."

2 Press TUNING MODE repeatedly until "PRESET" appears.

```
DSG
                PRESET LEVEL–SYNC
FM    87.50MHz
```

3 Press TUNING + or – to select the desired preset station.

The preset number scrolls in the display, followed by the frequency.

```
DSG
                PRESET LEVEL–SYNC
FM    87.50MHz
```
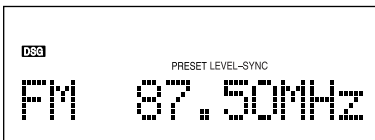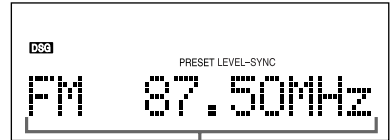
Frequency (or station name* or RDS station name**)

When you preset only one station, "ONE PRESET" appears in the display.

* The station name appears only if you have labeled the station (see page 63).
**European model only

To	Do this
Turn off the radio	Press I/⏻ to turn off the system.
Adjust the volume	Turn VOLUME.

To select the preset number using the number buttons on the remote

Press number buttons in step 3.
To enter preset numbers 10 or over, press >10 and the preset number. To enter 0, use the 10/0 button.

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Listening to non-preset radio stations

- Press TUNING MODE repeatedly until "AUTO" and "PRESET" disappear from the display in step 2, then press TUNING + or – to tune in the desired station (**Manual Tuning**).
- Press TUNING MODE repeatedly until "AUTO" appears in step 2, then press TUNING + or –. The frequency indication changes and the scanning stops when the system tunes in a station (**Automatic Tuning**).

To cancel Automatic Tuning

Press TUNING MODE.

Tips

- Pressing TUNER/BAND when the system is off automatically turns on the system and tunes in the last received station (**One Touch Play**).
- You can switch from another source to the tuner just by pressing TUNER/BAND (**Automatic Source Selection**).
- To improve broadcast reception, adjust the supplied antennas, or connect a commercially available external antenna (see page 70).
- When an FM stereo program has static noise, press STEREO/MONO until "MONO" scrolls in the display. There will be no stereo effect, but the reception will improve. Press the button again to restore the stereo effect.

Recording from the radio — Manual Recording

You can make an analog recording of a radio program on an MD or a tape.

Recording 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 47.

To turn on the system, press I/(¹)(power).

I/(¹) (power)

Recording from the radio (continued)

1 Insert a recordable MD.

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

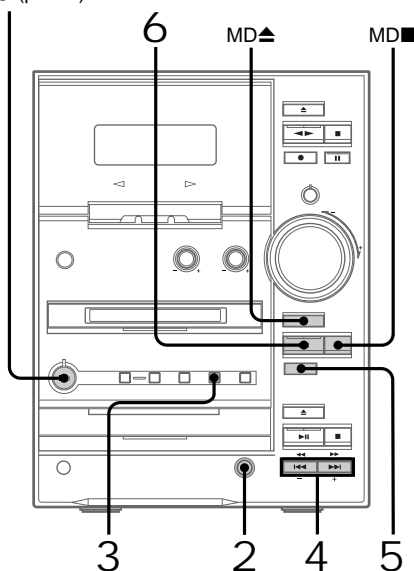With the arrow pointing toward the deck

2 Press TUNER/BAND to select "FM" or "AM."

3 Press TUNING MODE repeatedly until "PRESET" appears.

4 Press TUNING + or – to select the desired preset station.

The preset number scrolls in the display, followed by the frequency.

DSG   PRESET LEVEL-SYNC

FM 87.50MHz
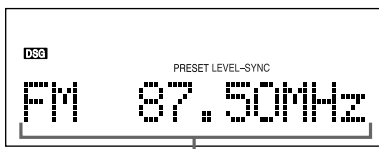
Frequency (or station name* or RDS station name**)

When you preset only one station, "ONE PRESET" appears in the display.
You can also select the preset numbers with the number buttons on the remote.

* The station name appears only if you have labeled the station (see page 63).

**European model only

5 Press MD REC ●

The MD deck stands by for recording and "REC" appears in the display.

6 Press MD ►II

Recording starts.

To stop recording

Press MD ■

Tips

• If noise is heard while recording an AM radio program, move the AM loop antenna to reduce the noise or connect a ground wire to the ⟂ terminal (see page 71).
• You can record the MD in monaural format. For details, see "Monaural recording" on page 42.
• To record non-preset stations, press TUNING MODE repeatedly until "AUTO" and "PRESET" disappear from the display in step 3, then press TUNING + or – to tune in the desired station.

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 32).

Before pulling out the power cord

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 power cord before updating the TOC (while "TOC" is lit) or while updating the TOC (while "TOC" or "STANDBY" is flashing) to ensure a complete recording.

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Recording on a tape

You can use TYPE I (normal) or TYPE II (CrO2) tape. The recording level is automatically adjusted.

To turn on the system, press I/⏻(power).
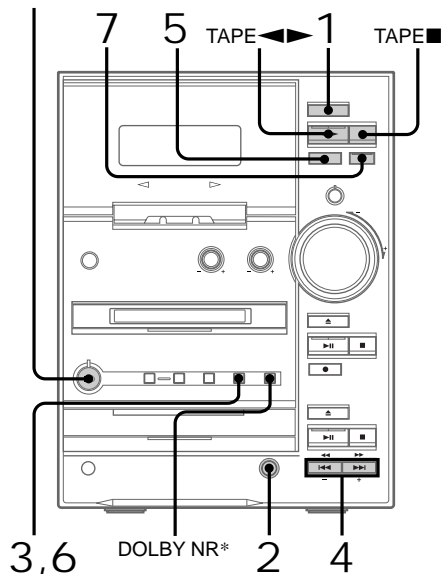
I/⏻ (power)

3,6   DOLBY NR*   **2**   **4**

* This tape deck is equipped with the Dolby B-type noise reduction system.

1   Press TAPE ▲and insert a blank tape.

With the side you want to record on facing you
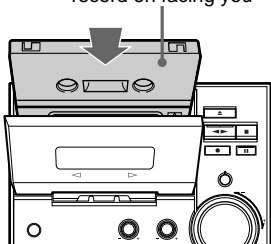
2   Press TUNER/BAND to select "FM" or "AM."

3   Press TUNING MODE repeatedly until "PRESET" appears.

4   Press TUNING + or – to select the desired preset station.

The preset number scrolls in the display, followed by the frequency.
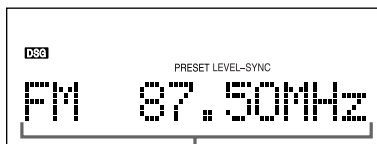
Frequency (or station name* or RDS station name**)

When you preset only one station, "ONE PRESET" appears in the display.
You can also select the preset numbers with the number buttons on the remote.

* The station name appears only if you have labeled the station (see page 63).
**European model only

5   Press TAPE REC ●

The tape deck stands by for recording and "REC" appears in the display.

6   Press DIRECTION repeatedly until ⇌ appears to record on one side or ⇄ (or ⟳⇄) to record on both sides.

7   Press TAPE ⅠⅠ
Recording starts.

Basic Operations

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Recording from the radio (continued)

To stop recording
Press TAPE ■

Tips
- If noise is heard while recording an AM radio program, move the AM loop antenna to reduce the noise or connect a ground wire to the ⏚ terminal (see page 71).
- When you want to record on the reverse side, press TAPE ◀▶ to light up the left indicator in step 6.
- When you record on both sides, be sure to start from the front side. If you start from the reverse side, recording stops at the end of the reverse side.
- To record non-preset stations, press TUNING MODE repeatedly until "AUTO" and "PRESET" disappear from the display in step 3, then press TUNING + or – to tune in the desired station.
- When you want to reduce the hiss noise in low-level, high-frequency signals, press DOLBY NR after step 5 so "□□" appears in the display.

The CD Player

Playing CD tracks repeatedly — Repeat Play

You can repeat a CD in normal play, Shuffle Play and Program Play.
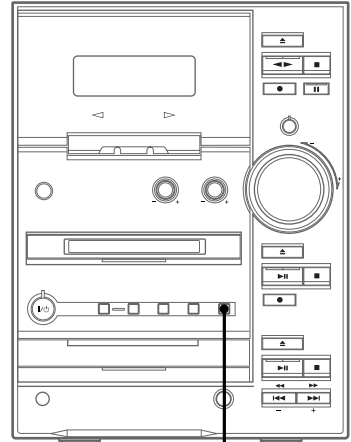
REPEAT

➡ Press REPEAT during play until "REPEAT" or "REPEAT 1" appears.
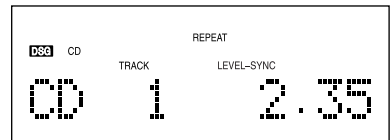
REPEAT: For all the tracks on the CD.
REPEAT 1: For a single track only.

To cancel Repeat Play
Press REPEAT until "REPEAT" or "REPEAT 1" disappears.

22

Playing CD tracks in random order — Shuffle Play

You can play all the tracks on a CD in random order.
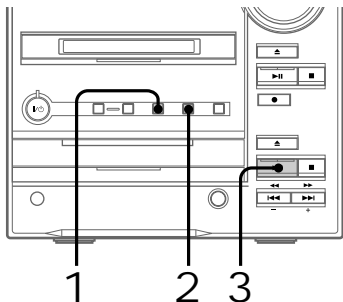
1 Press FUNCTION repeatedly to switch the function to CD.

2 Press PLAY MODE repeatedly until "SHUFFLE" appears.
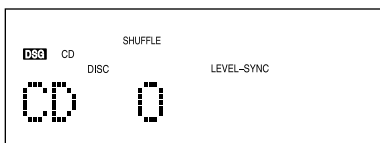
3 Press CD ►❚❚.
Shuffle Play starts.

To cancel Shuffle Play
Press PLAY MODE repeatedly until "SHUFFLE" and "PGM" disappear.

Tips
• You can start Shuffle Play during normal play by displaying "SHUFFLE."
• To skip a track, press ►►❙.

Programing CD tracks
— Program Play

You can make a program up to 25 tracks in the order you want them to be played. You can also make a Synchro Recording of the program on an MD or a tape (see pages 32 and 56).
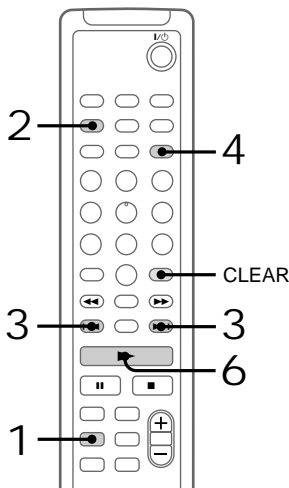
1 Press CD to switch the function to CD.

2 Press PLAY MODE repeatedly until "PGM" appears.

3 Press ❙◄◄ or ►►❙ repeatedly until the desired track number appears in the display.
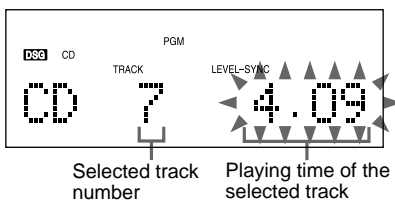
Selected track number   Playing time of the selected track

continued

23

Programing CD tracks (continued)

4 Press ENTER/YES.

The track is programed.

"Step" appears, followed by the number of the track in the programed sequence. The number of the last programed track appears, followed by the total playing time of the program. If you have made a mistake, you can clear the last programed track from the program by pressing CLEAR.

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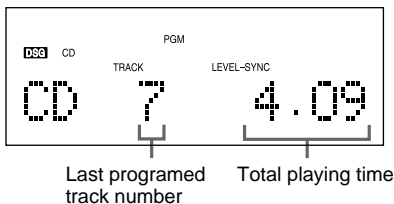
5 To program additional tracks, repeat steps 3 and 4.

6 Press ►.

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

To check the total number of programed tracks

Press DISPLAY in stop mode. The total number of programed steps appears, followed by the last programed track number and the total playing time of the program.
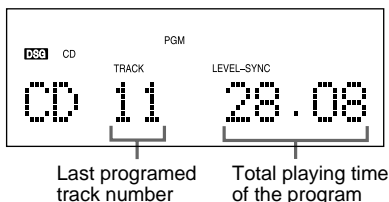
Last programed   Total playing time
track number   of the program

To check the program order

Press ◄◄ or ►► repeatedly during Program Play.

To	Do this
Cancel Program Play	Press ■, then press PLAY MODE repeatedly until "PGM" and "SHUFFLE" disappear.
Add a track to the program (in stop mode)	Perform steps 3 and 4.
Erase the entire program	Press ■, when Program Play is in stop mode.

To select the desired track using the number buttons on the remote

Press number buttons instead of performing steps 3 to 5.

To enter track numbers 10 or over, press >10 and the track number. To enter 0, use the 10/0 button.

Tips
- The program you made remains after Program Play finishes. To play the same program again, press ►.
- "Step Full" appears when you try to program 26 or more tracks (steps).
- "--.--" appears when the total CD program time exceeds 100 minutes, or when you select a CD track whose number is 21 or over.

24

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.

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 CD*
↓
Track title of the current track**
↓
Clock display
↓
BASS level
↓
TREBLE level

In stop mode

→ CD stopped display
↓
CD disc title**
↓
Artist name**
↓
Total number of tracks and total playing time
↓
Clock display
↓
BASS level
↓
TREBLE level

* The remaining time of the program appears during Program Play.
**If a CD that has no title is loaded, nothing appears. When the CD contains more than 50 tracks, CD TEXT is not displayed from track 51 on.

25
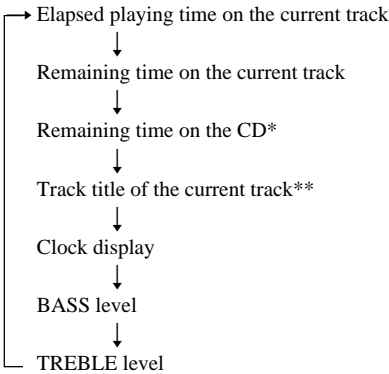
Labeling a CD — Disc Memo

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

Notes
- You cannot label a CD for which "CD-TEXT" appears in the display.
- **When labeling CDs for the first time, be sure to perform the operations in "Erasing all disc titles stored in the system memory" on page 27 beforehand.**
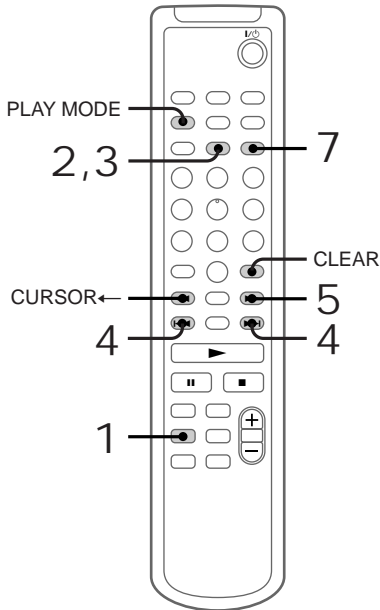
1 Press CD to switch the function to CD.

Make sure the total number of tracks and the total playing time appear in the display in stop mode. If "SHUFFLE" or "PGM" appears in the display, press PLAY MODE repeatedly until both disappear.
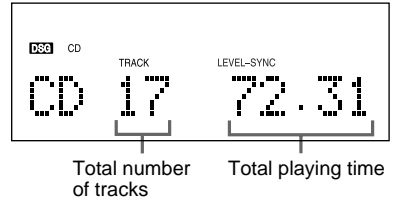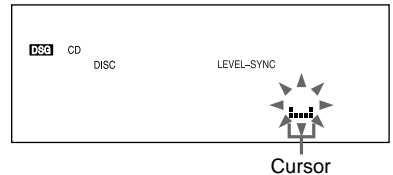
Total number   Total playing time
of tracks

2 Press NAME EDIT.

The cursor starts flashing.

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 (Numbers) →

! (Symbols) → ␣ (Blank space) → ···

PLAY MODE

2,3

7

CLEAR

CURSOR←

5

4

4

1

26

4 Press ◄◄ or ►►◄ repeatedly to select the desired character.

To enter a blank space
Press CURSOR→ without pressing ◄◄ or ►►◄. You cannot enter a space as the first character.

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

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

DSG CD
        DISC   LEVEL–SYNC
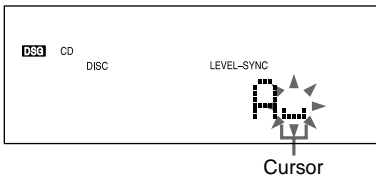
Cursor

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

If you made a mistake
Press CURSOR← 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 labeling procedure.
The disc title is stored in the system memory and then the original display appears.

To cancel labeling
Press MENU/NO.

Checking the disc titles

1 Press MENU/NO in stop mode.
2 Press ◄◄ or ►►◄ repeatedly until "Name Check ?" appears, then press ENTER/YES.
3 Press ◄◄ or ►►◄ repeatedly to select the disc titles stored in the system memory between 001 and 050.

To check the current disc title
Press SCROLL in stop mode.

Erasing a disc title

1 Press MENU/NO in stop mode.
2 Press ◄◄ or ►►◄ repeatedly until "Name Erase ?" appears, then press ENTER/YES.
The disc title appears scrolling in the display.
"No Name" appears if no disc title is labeled.
3 Press ENTER/YES again.
"Complete !!" appears and the disc title is erased.

To cancel erasing
Press MENU/NO during steps 1 and 2.

Erasing all disc titles stored in the system memory

1 Press MENU/NO in stop mode.
2 Press ◄◄ or ►►◄ repeatedly until "All Erase ?" appears, then press ENTER/YES.
"All Erase ??" appears.
3 Press ENTER/YES again to erase disc titles.
"Complete !!" appears and all disc titles are erased.

To cancel erasing
Press MENU/NO during steps 1 and 2.

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

The CD Player

27

Playing MD tracks repeatedly — Repeat Play

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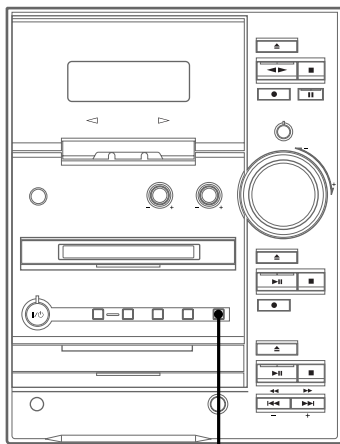
REPEAT

➡ Press REPEAT during play until "REPEAT" or "REPEAT 1" appears.
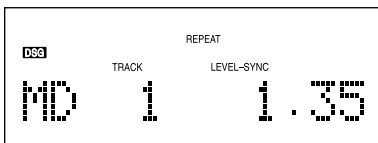
REPEAT: For all the tracks on the MD.

REPEAT 1*: For a single track only.

* You cannot repeat a single track during Shuffle Play or Program Play.

To cancel Repeat Play

Press REPEAT 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.
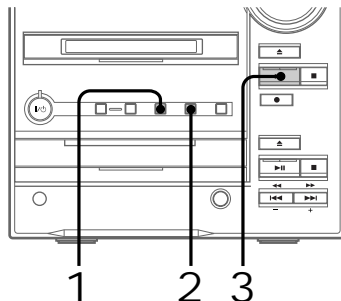
1 2 3

1 Press FUNCTION repeatedly to switch the function to MD.

2 Press PLAY MODE repeatedly until "SHUFFLE" appears in stop mode.
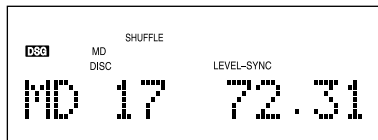
3 Press MD ▶️II.
Shuffle Play starts.

To cancel Shuffle Play

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

Tip
To skip a track, press ▶▶I.

28

Programing MD tracks

— Program Play

You can make a program 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 "PGM" appears in stop mode.

3 Press |◀◀ or ▶▶| repeatedly until the desired track number appears in the display.

Selected track number   Total playing time

4 Press ENTER/YES.

The track is programed.

"Step" appears, followed by the number of the track in the programed sequence. The number of the last programed track appears, followed by the total playing time of the program. If you have made a mistake, you can clear the last programed track from the program by pressing CLEAR.

Last programed track number   Total playing time

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

6 Press ▶.

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

To check the total number of programed tracks

Press DISPLAY in stop mode. The total number of programed steps appears.

Last programed track number   Total number of programed steps

The MD Deck — Play

To check the program order

Press |◀◀ or ▶▶| repeatedly during Program Play.

To	Do this
Cancel Program Play	Press ■, then press PLAY MODE repeatedly until "PGM" and "SHUFFLE" disappear.
Add a track to the program (in stop mode)	Perform steps 3 and 4.
Erase the last programed track	Press CLEAR in stop mode. Each time you press the button, the last programed track is erased.

To select the desired track using the number buttons on the remote

Press number buttons instead of performing steps 3 to 5.
To enter track numbers 10 or over, press >10 (press twice to enter 100 or over) and the track number. To enter 0, use the 10/0 button.

Tips

- The program you made remains after Program Play finishes. To play the same program again, press ▶.
- "ProgramFull" appears when you try to program 26 or more tracks (steps).
- "---.--" appears when the total MD program time exceeds 200 minutes.

Using the MD display

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

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 and the track number on the current track
↓
Remaining time and the track number on the current track
↓
Remaining time on the MD
↓
Track title of the current track*1
↓
Clock display
↓
BASS level
↓
TREBLE level

30

In stop mode

→ Total number of tracks and total playing time*²
  ↓
Remaining recordable time (only for a recordable MD)
  ↓
Disc title (only for a pre-mastered MD)*³
  ↓
Clock display
  ↓
BASS level
  ↓
└ TREBLE level
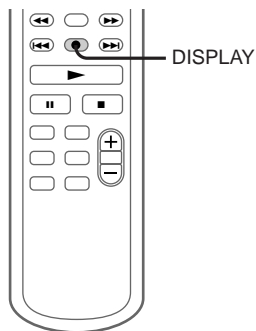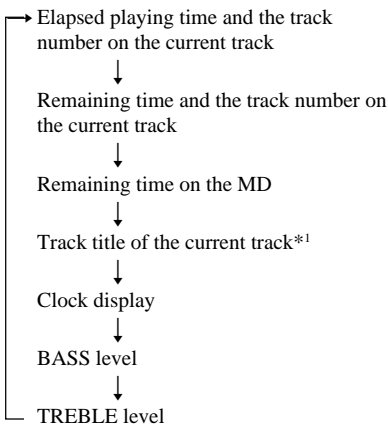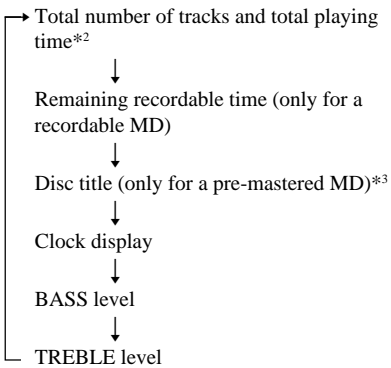
*¹ "No Name" appears when no track title is labeled.
*² "---.--" appears when the total MD program time exceeds 200 minutes.
*³ "No Name" appears if no disc title is labeled.

Tips
• You can check a track title at any time during play. If you press SCROLL, a track title appears scrolling in the display.
  Press SCROLL at any point during the scroll display to stop the scrolling. Press SCROLL again to restart the scrolling.
• To label a disc title or a track title, see "Labeling an MD" on page 45.

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.

• **This system's tuner and other components connected to the VIDEO IN jack (e.g., a VCR)**
– The MD deck performs analog 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 37), 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 73.
*² Even if a digital component is connected to the VIDEO IN jack, the MD deck performs analog 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

The MD Deck — Play/Recording

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After recording

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

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

Before pulling out the power cord

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 power
cord before updating the TOC (while "TOC" is lit) or
while updating the TOC (while "TOC" or
"STANDBY" is flashing) to ensure a complete
recording.

Protecting a recorded MD

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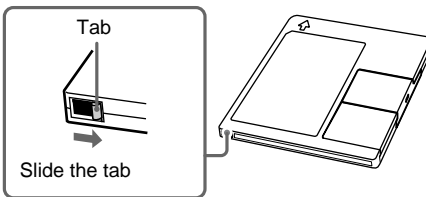
Tab

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.

Recording your favorite CD tracks on an MD

— CD-MD Synchro Recording

You can select your favorite CD tracks with the
Program Play feature, then record the program on
an MD using the CD Synchro Recording feature.
If you use a partially recorded MD, recording
starts after the recorded tracks.
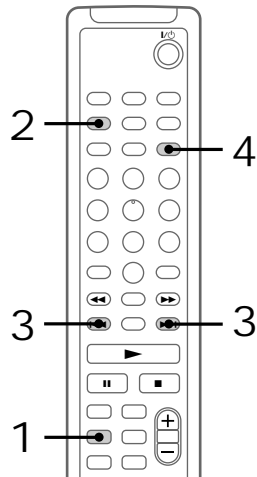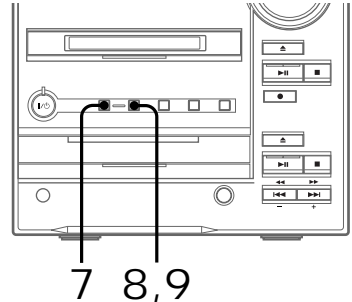
7   8,9

2   **4**

3   **3**

1

32

Selecting the tracks

1 Press CD on the remote to switch the function to CD.

2 Press PLAY MODE on the remote repeatedly until "PGM" appears.

3 Press ◄◄ or ►► on the remote repeatedly until the desired track number appears.

```
              PGM
DSG  CD
          TRACK        LEVEL-SYNC  ▲ ▲ ▲ ▲
                              ◄ ▲ ▲ ▲ ▲ ►
CD     7        4.09
                              ◄ ▼ ▼ ▼ ▼ ►
                                ▼ ▼ ▼ ▼
```

Selected track number   Total playing time

4 Press ENTER/YES on the remote.
The track is programed.
"Step" appears, followed by the number of the track in the programed sequence. The number of the last programed track appears, followed by the total playing time of the program.

```
              PGM
DSG  CD
          TRACK        LEVEL-SYNC
CD     7        4.09
```
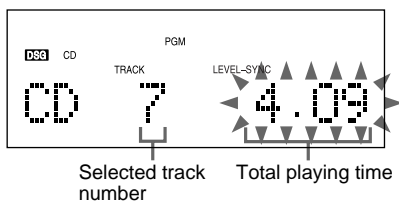
Last programed   Total playing time
track number
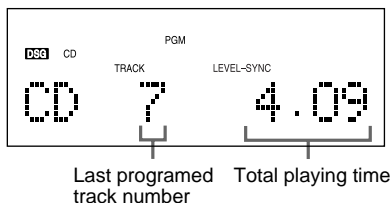
5 To program additional tracks, repeat steps 3 and 4.

Recording on an MD

6 Insert a recordable MD.

7 Press SYNCHRO REC repeatedly until "CD-MD SYNC" appears.

8 Press ENTER/START.
The MD deck stands by for recording and the CD player pauses for play.

9 Press ENTER/START again.
CD playing and MD recording start.
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.

To record on a tape at the same time

Insert a blank tape and select "DUAL SYNC" in step 7 of "Recording on an MD" on this page.

continued

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Recording your favorite CD tracks on an MD (continued)

Before pulling out the power cord

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 power cord before updating the TOC (while "TOC" is lit) or while updating the TOC (while "TOC" or "STANDBY" is flashing) to ensure a complete recording.

Tip

The track numbers of the CD are recorded on to the MD automatically.

Note

If "Cannot SYNC" appears, a disc is not loaded or you cannot record on that MD (see page 79).

Labeling titles during 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
  If you record on an unrecorded or completely erased (see page 48) MD when "CD-TEXT" is lit, the CD TEXT information is automatically recorded.
- Manually during recording
  When "CD-TEXT" flashes, press NAME EDIT on the remote, and then press ENTER/YES on the remote to record the title of the current track.

Notes

- Depending on the disc, the CD TEXT information may not be recorded automatically.
- When you record on an MD and a tape at the same time, the CD TEXT information is not recorded. Record this information after the recording is completed (see page 45).

Recording on an MD manually — Manual Recording

With manual recording, you can record just the portions you like from a CD, or start recording from the middle of the tape. You can also record a radio program.
If you use a partially recorded MD, recording starts after the recorded tracks.
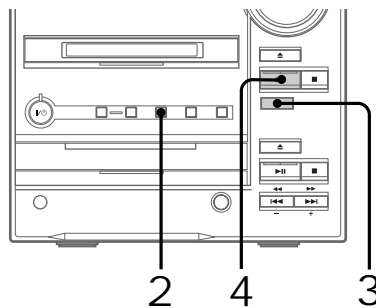
2   4   3

1 Insert a recordable MD.

2 Press FUNCTION repeatedly to select the desired source (e.g., TUNER) to record.
- CD: Recording from the CD
- TAPE: Recording from the tape
- TUNER: Recording from the radio

3 Press MD REC ●.
The MD deck stands by for recording.

4 Press MD ▶II.
Recording starts.

34

5 Start playing the desired source to record.

When recording from this system's CD player, the track numbers are automatically marked. Press MD REC ● 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 37.

To stop recording

Press MD ■.

Before pulling out the power cord

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 power cord before updating the TOC (while "TOC" is lit) or while updating the TOC (while "TOC" or "STANDBY" is flashing) to ensure a complete recording.

Tips

- You can adjust the recording level to the desired volume (see page 41).
- You can check the remaining recordable time on the MD during recording by pressing DISPLAY on the remote.

Note

If you pause recording during CD recording, a track number is assigned at that point. Also, note that only one track number might be assigned when the same single track of the same CD is recorded repeatedly.

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 (12 seconds for monaural recording) before starting recording, as shown in the illustration below:

35
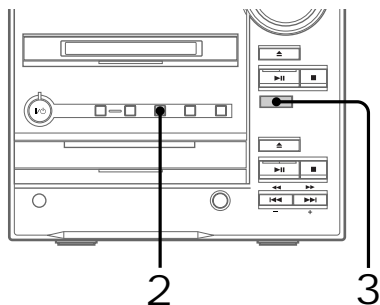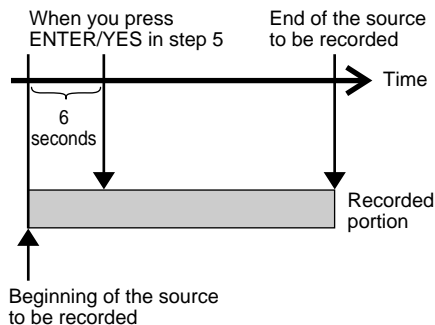
Starting recording with 6 seconds of prestored audio data (continued)
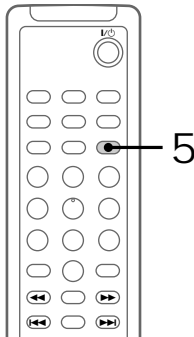
1 Insert a recordable MD.

2 Press FUNCTION repeatedly to select the desired source (i.e., TUNER) to record.

3 Press MD REC ●.
The MD deck stands by for recording.

4 Start playing the desired source to record.

5 Press ENTER/YES on the remote 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 ■.

Before pulling out the power cord
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 power cord before updating the TOC (while "TOC" is lit) or while updating the TOC (while "TOC" or "STANDBY" is flashing) to ensure a complete recording.

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

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Marking track numbers

You can mark track numbers as follows:

• Automatically during recording

Track numbers are automatically marked as on the original source during recording from this system's CD player. Use the Level Synchro Recording function to automatically mark track numbers during recording from this system's tuner or components connected to the VIDEO IN jack. However, you cannot mark track numbers automatically if the sound source to be recorded is noisy (e.g., tapes or radio programs) or during timer-recording.

• At any point during recording

You can mark track numbers during recording of any source.

• After recording

Use the Divide Function (see page 52).
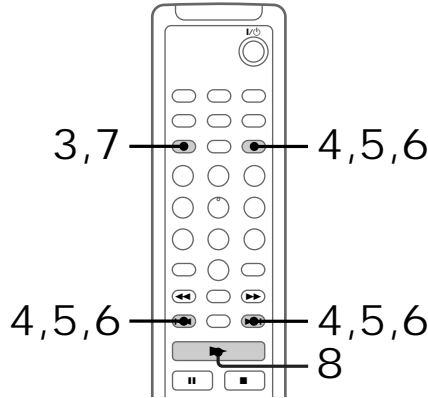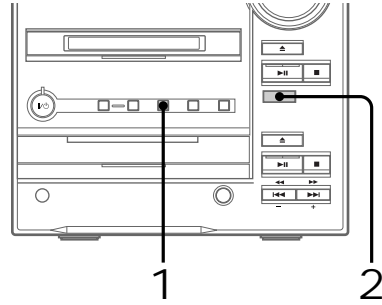
Marking track numbers automatically during recording — Level-Synchro Recording

The Level Synchro Recording function is factory set to on, so the track numbers are automatically marked. If "LEVEL-SYNC" does not appear during recording, turn on the Level Synchro Recording as follows. Track numbers are automatically marked when the input signal is continuously below a certain level for more than 2 seconds and then exceeds that level.

Note

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

1 Press FUNCTION repeatedly to switch the function to TUNER.

To record from other components connected to this system, select "VIDEO".

2 Press MD REC ●.

The MD deck stands by for recording.

3 Press MENU/NO on the remote.

4 Press ⏮ or ⏭ on the remote repeatedly until "Setup ?" appears, then press ENTER/YES on the remote.

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Marking track numbers (continued)

5 Press |◄◄ or ►►| repeatedly until "T.Mark Off" appears, then press ENTER/YES.

6 Press |◄◄ or ►►| repeatedly until "T.Mark LSync" appears, then press ENTER/YES.
"LEVEL-SYNC" lights up.

7 Press MENU/NO.

8 Press ► on the remote.
Recording starts.

To stop recording
Press MD ■.

To cancel automatic track marking
1 Press MENU/NO on the remote during recording pause.
2 Press |◄◄ or ►►| on the remote repeatedly until "Setup ?" appears, then press ENTER/YES on the remote.
3 Press |◄◄ or ►►| repeatedly until "T.Mark LSync" appears, then press ENTER/YES.
4 Press |◄◄ or ►►| repeatedly until "T.Mark Off" appears, then press ENTER/YES.
5 Press MENU/NO.
"LEVEL-SYNC" lights off.

When "LEVEL-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.
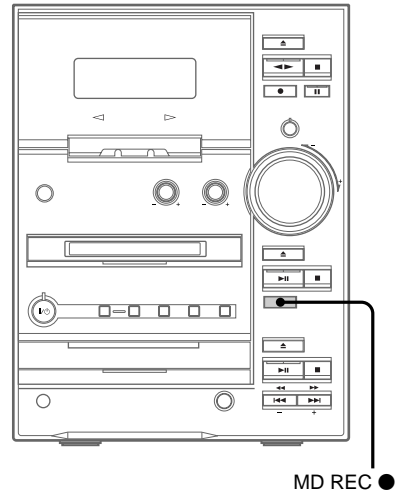
MD REC ●

→ Press MD REC ● during recording at the point you want to add a track mark.
The tracks following the added one are renumbered.

38

Making a space between tracks 3 seconds long — Smart Space

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

No sound input for less than 30 seconds
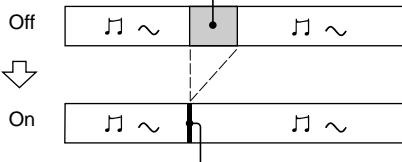
Replaced with a blank of 3 seconds and recording continues

Auto Cut: When the Smart Space function is on, if there is no sound input for 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
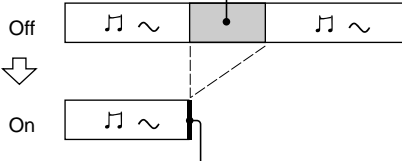
Replaced with a blank of 3 seconds and recording pauses
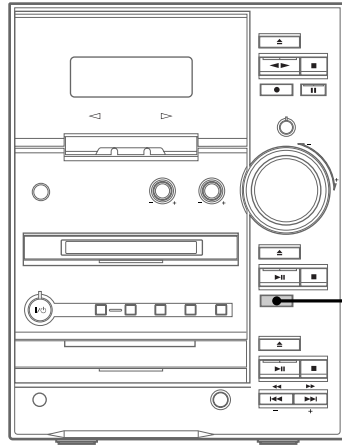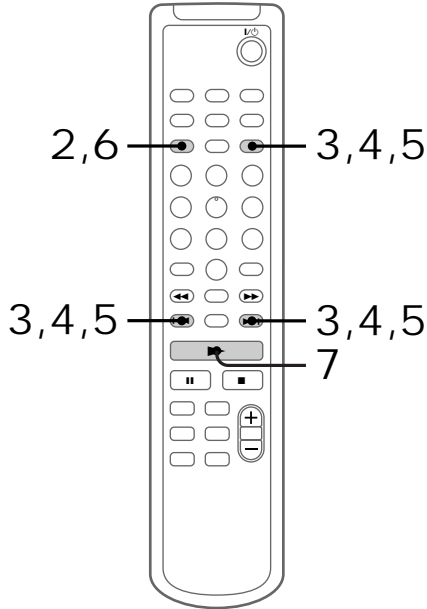
1 Press MD REC ● to stand by for recording.

2 Press MENU/NO on the remote.

The MD Deck — Recording

Making a space between tracks 3 seconds long (continued)

3 Press ⏮ or ⏭ on the remote repeatedly until "Setup ?" appears, then press ENTER/YES on the remote.

4 Press ⏮ or ⏭ repeatedly until "S.Space Off" (or "S.Space On") appears, then press ENTER/YES.

5 Press ⏮ or ⏭ repeatedly until "S.Space On" appears, then press ENTER/YES.

6 Press MENU/NO.

7 Press ▶ on the remote.
Recording starts.

8 Start playing the desired source to record.

If there is an extended silence of less than 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 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 ▶ to restart the recording.

To stop recording
Press MD ■.

To turn off Smart Space and Auto Cut functions

1 Press MENU/NO on the remote during recording pause.

2 Press ⏮ or ⏭ on the remote repeatedly until "Setup ?" appears, then press ENTER/YES on the remote.

3 Press ⏮ or ⏭ repeatedly until "S.Space On" appears, then press ENTER/YES.

4 Press ⏮ or ⏭ repeatedly until "S.Space Off" appears, then press ENTER/YES.

5 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 power cord, 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 analog recording, but also when making a digital recording from a CD, etc.

2

3,8 — **4,5,7**

4,5,6 — **4,5,6**

9
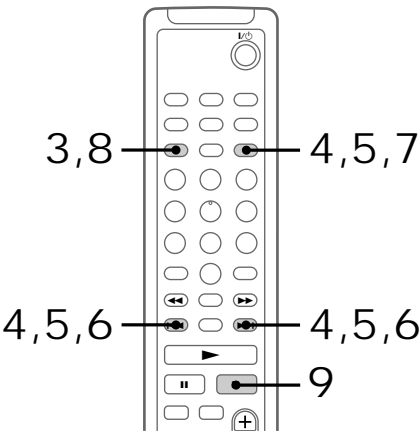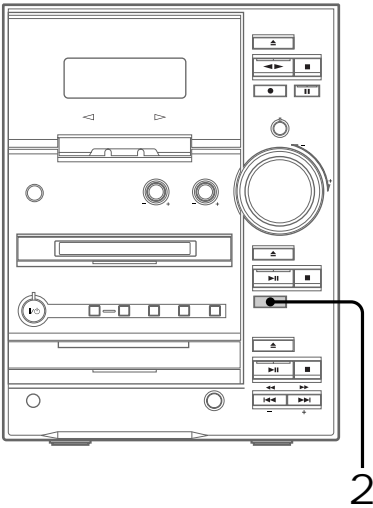
1 Prepare the desired sound source to record and start play.

2 Confirm that the MD deck is in recording standby.
If not, press MD REC ●.

3 Press MENU/NO on the remote.

4 Press ⏮ or ⏭ on the remote repeatedly until "Setup ?" appears, then press ENTER/YES on the remote.

5 Press ⏮ or ⏭ repeatedly until "LevelAdjust?" appears, then press ENTER/YES.

6 Press ⏮ or ⏭ to adjust the recording level.

The recording level can be adjusted from –12 to +12. 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.)

Adjust the level not to appear "OVER"

REC   TUNED STEREO

PRESET LEVEL–SYNC OVER

TUNER   +2

The MD Deck — Recording

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7 Press ENTER/YES.

8 Press MENU/NO.

9 Press ■ on the remote.

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.

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).

8   **7**

2   **3,4,5**

3,4,5   **3,4,5**

1

6
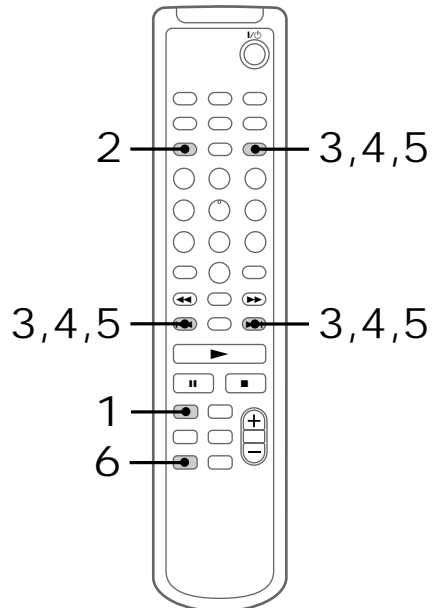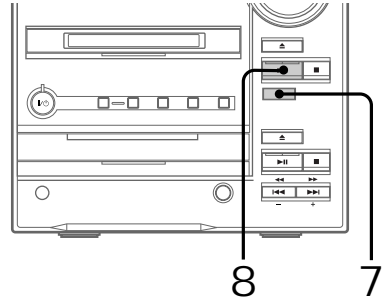
1 Press MD on the remote to switch the function to MD.

2 Press MENU/NO on the remote in stop mode.

3 Press I◄◄ or ►►I on the remote repeatedly until "Setup ?" appears, then press ENTER/YES on the remote.

4 Press I◄◄ or ►►I repeatedly until "Stereo Rec" (or "Mono Rec") appears, then press ENTER/YES.

5 Press I◄◄ or ►►I repeatedly until "Mono Rec" appears, then press ENTER/YES.
"MONO" lights up.

6 Press FUNCTION repeatedly to select the desired source (e.g., TUNER) to record.

7 Press MD REC ●.
The MD deck stands by for recording.

8 Press MD ►II.
Recording starts.
The sound source is heard as is (e.g., stereo sound when recording a stereo broadcast) from the speakers.

To stop recording

Press MD ■.

To return to stereo recording

1 Press MENU/NO on the remote when MD function is in stop mode.

2 Press I◄◄ or ►►I on the remote repeatedly until "Setup ?" appears, then press ENTER/YES on the remote.

3 Press I◄◄ or ►►I repeatedly until "Mono Rec" appears, then press ENTER/YES.

4 Press I◄◄ or ►►I repeatedly until "Stereo Rec" appears, then press ENTER/YES.
The system switches back to stereo recording, and "MONO" lights off.

The MD Deck — Recording

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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 — Labeling MDs (page 45)**

  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 47)**

  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 51)**

  Use this function to change the track numbering.

- **Divide — Adding track numbers (page 52)**

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

- **Combine — Combining recorded tracks (page 53)**

  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 — Canceling the last edit (page 55)**

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

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 record 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 "PGM" and "SHUFFLE" disappear.

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

After editing

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

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

Before pulling out the power cord

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 power cord before updating the TOC (while "TOC" is lit) or while updating the TOC (while "TOC" or "STANDBY" is flashing) to ensure a complete editing.

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Labeling an MD

— Name Function

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

During recording

If "CD-TEXT" lights up or flashes in the display during recording a CD, you can record the CD disc title on the MD (see page 34). However, the CD disc title is not recorded when recording a CD on an MD and a tape at the same time.

After recording

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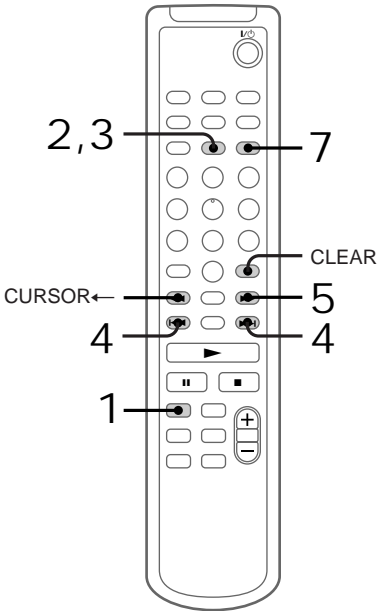
1 Press MD to switch the function to MD.

To label a track, press ◄◄ or ►►◄ repeatedly until the desired track number appears.

2 Press NAME EDIT.
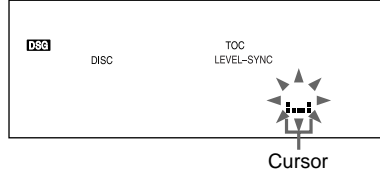
The cursor starts flashing.

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 (Numbers) →
! (Symbols) → ␣ (Blank space) → ···

4 Press ◄◄ or ►►◄ repeatedly to select the desired character.

To enter a blank space

Press CURSOR→ without pressing ◄◄ or ►►◄. You cannot enter a space as the first character.

To enter a symbol

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

The MD Deck — Editing

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Labeling an MD (continued)

5 Press CURSOR→.

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

```
┌─────────────────────────────────────┐
│  DSG                        TOC       │
│            DISC         LEVEL-SYNC     │
│                                       │
│                          ▲            │
│                         ╱R            │
│                          ╲            │
│                           ▼           │
│                                       │
└─────────────────────────────────────┘
                              Cursor
```
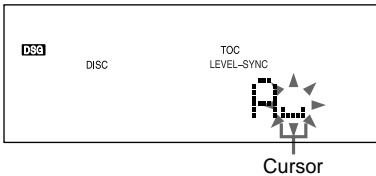
6 Repeat steps 3 to 5 to complete the
entire title.

If you made a mistake

Press CURSOR← 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
labeling procedure.

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

To cancel labeling

Press MENU/NO.

Notes

• You can label a track title during play. The
  playback repeats until you finish labeling.
• If the MD is record protected, "C11" and
  "Protected" appear alternately and the MD cannot
  be edited. Remove the MD, then slide the record
  protection tab to the closed position (see page 32).

Copying a disc or track title

You can copy a labeled 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 Press |◄◄ or ►►| repeatedly until "Name ?"
appears, then press ENTER/YES.

3 Press |◄◄ or ►►| repeatedly until "Nm
Copy ?" appears, then press ENTER/YES.

4 Press |◄◄ or ►►| repeatedly to select "Disc"
(when copying the disc title) or the track
number with the title you want to copy, then
press ENTER/YES.

When "No Name" appears

The disc or track has not been labeled.

5 Press |◄◄ or ►►| repeatedly 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 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.

46

Erasing the titles

1 Press MENU/NO in stop mode.

2 Press ◄◄ or ►► repeatedly until "Name ?" appears, then press ENTER/YES.

3 Press ◄◄ or ►► repeatedly until "Nm Erase?" appears, then press ENTER/YES.

To erase all the titles, press ◄◄ or ►► repeatedly until "Nm All Ers?" appears, then press ENTER/YES.

"Nm All Ers??" appears.

4 Press ◄◄ or ►► repeatedly until the desired title to erase appears, then press ENTER/YES.

To erase all the titles, press ENTER/YES again.

"Complete !!" appears and the title is erased.

To cancel erasing

Press MENU/NO.

To return to the condition before labeling or erasing

You can return to the original condition immediately after labeling or erasing a title by using Undo Function on page 55.

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 (Track Erase Function)
• Erasing all tracks (All Erase Function)
• Erasing a portion of a track (A-B Erase Function)

Erasing a single track

— Track Erase Function

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

Example: Erasing track 2.
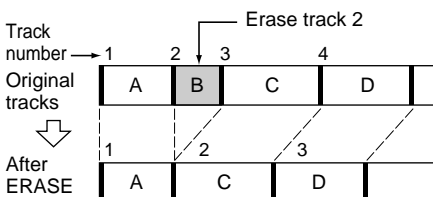
When erasing multiple tracks, you should proceed in order from high to low track number to prevent the renumbering of tracks that have not been erased yet.
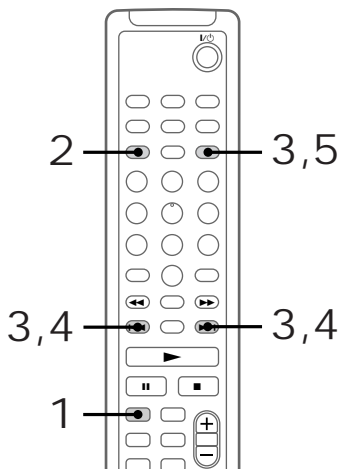
47

Erasing recordings (continued)

1 Press MD to switch the function to MD.

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

3 Press |◄◄ or ►►| repeatedly until "Tr Erase?" appears, then press ENTER/ YES.

4 Press |◄◄ or ►►| repeatedly until the desired track number appears.
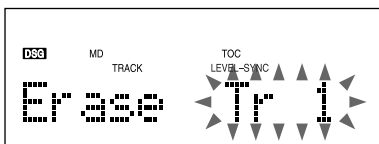
5 Press ENTER/YES.

"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 ERASE

You can return to the original condition immediately after erasing the tracks by using Undo Function on page 55.

Note

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

Erasing all tracks — All Erase Function

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

1 Press MD to switch the function to MD.

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

3 Press |◄◄ or ►►| repeatedly 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 ERASE

You can return to the original condition immediately after erasing the tracks by using Undo Function on page 55.

Erasing a portion of a track
— A-B Erase Function

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

* 1 frame is 1/86 second.

Example: Erasing a portion of track 2.
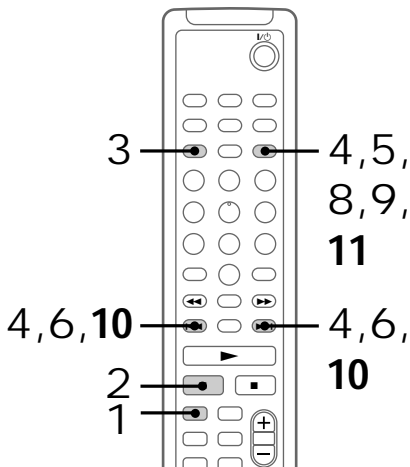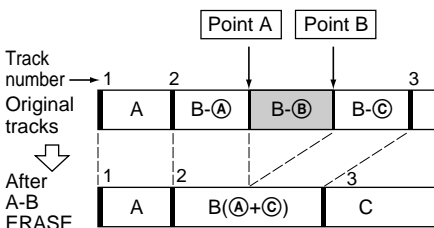

1 Press MD to switch the function to MD.

2 While playing an MD, press ❚❚ at the starting point of the portion to be erased (point A).

The MD pauses.

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

4 Press |◄◄ or ►►| repeatedly until "A-B Erase ?" appears, then press ENTER/YES.

5 Press ENTER/YES again.

"—Rehearsal—" and "Point A ok?" appear alternately while the deck plays the selected track from the beginning to point A.

continued

49

Erasing recordings (continued)

6 While monitoring the sound, press ◄◄
or ►►I repeatedly to find the starting
point of the portion to be erased (point
A).

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

To shift the point by second or minute
intervals, press ◄◄ or ►► so that second or
minute flashes, then press I◄◄ or ►►I.

7 Repeat step 6 until point A is played
correctly.

8 Press ENTER/YES if point A is correct.
"Point B Set" appears and playback for
setting the ending point of the portion to be
erased (point B) starts.

9 Continue playback until the deck
reaches point B, then press ENTER/
YES.
"A-B Ers" and "Point B ok?" appear
alternately and the deck repeats a portion of
the few seconds before point A and after
point B successively.

10 Press I◄◄ or ►►I repeatedly to find
point B.
The procedure is the same as step 6.

11 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 erasing
Press MENU/NO.

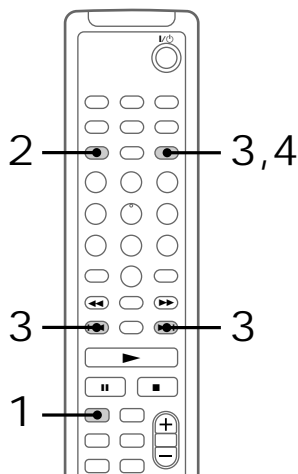## To return to the condition before ERASE
You can return to the original condition
immediately after erasing the tracks by using
Undo Function on page 55.

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.

Example: Moving track 3 to position 2.
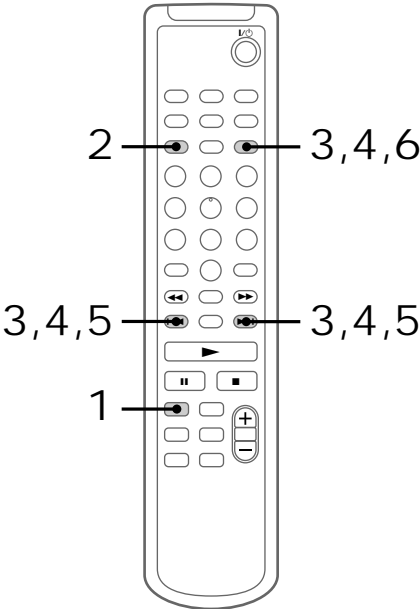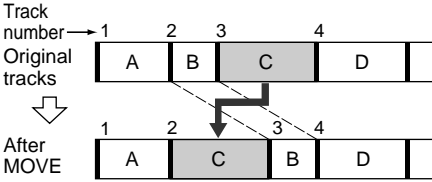
Track number → 1 2 3 4

Original tracks: A B C D

After MOVE: 1 2 3 4 / A C B D

2 — 3,4,6

3,4,5 — 3,4,5

1

1 Press MD to switch the function to MD.

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

3 Press ◄◄ or ►►I repeatedly until "Move ?" appears, then press ENTER/ YES.

4 Press ◄◄ or ►►I repeatedly until the desired track number to move appears, then press ENTER/YES.

5 Press ◄◄ or ►►I repeatedly until the new track position appears.
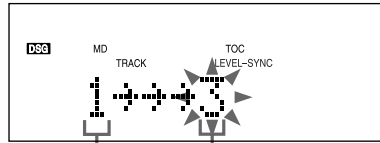
Original track number   New track position

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 by using Undo Function on page 55.

The MD Deck — Editing

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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.

Example: Dividing track 2 into two tracks.
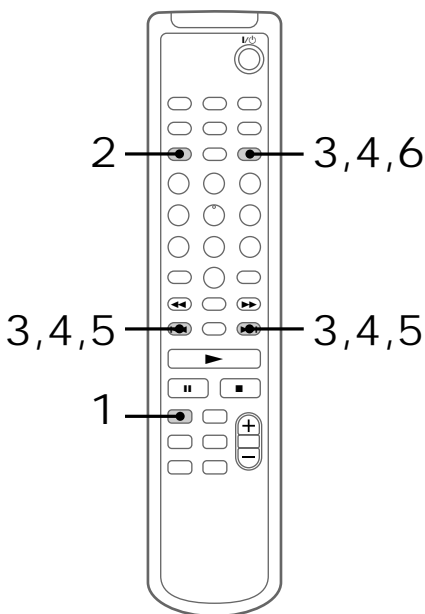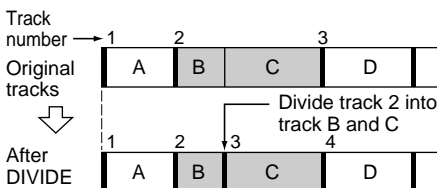
Track number 1 2 3

Original tracks: A | B | C | D

Divide track 2 into track B and C

After DIVIDE: 1 2 3 4 — A | B | C | D

2 — 3,4,6

3,4,5 — 3,4,5

1

1 Press MD to switch the function to MD.

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

3 Press |◀◀ or ▶▶| repeatedly until "Divide ?" appears, then press ENTER/YES.

4 Press |◀◀ or ▶▶| repeatedly 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, press |◀◀ or ▶▶| repeatedly to adjust the point to be divided.

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

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

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 by using Undo Function on page 55. You can also return to the original condition by using Combine Function on page 53.

52

Notes

• If you divide a labeled track (see page 45) into two
  tracks, only the first track retains the track title.

Example:

1	2	3	4
Andante	Adagio	Allegro	

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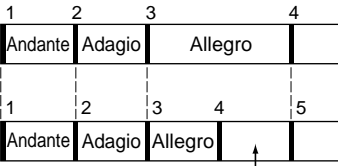
The new track is not labeled

• "Impossible" appears, when you specify the
  division point at the beginning or end of a track.
  Press � � ◀ ◀ or ▶ ▶ ▏ 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.
You can also use this function to erase
unnecessary track numbers.

Example: Combining track 3 to track 1.

Track
number → 1   2   3   4

Original
tracks | A | B | C | D |

⇩

After   1   2   3
COMBINE | A | C | B | D |
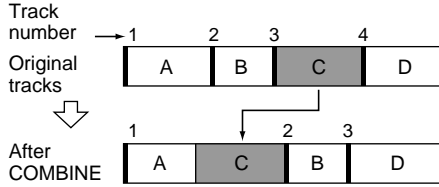
Example: Combining track 1 to track 4.

         1   2   3   4   5
Original
tracks | A | B | C | D | |

⇩

After   1   2   3   4
COMBINE | B | C | D | A |

continued

The MD Deck — Editing

53
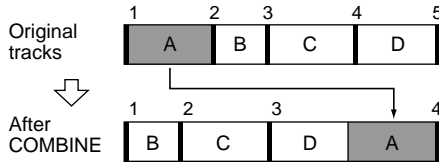
***Combining recorded tracks
(continued)***
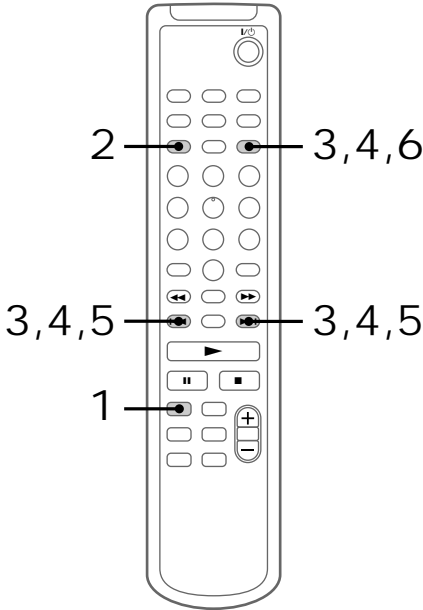
1 Press MD to switch the function to MD.

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

3 Press |◄◄ or ►►| repeatedly until
"Combine ?" appears, then press
ENTER/YES.

4 Press |◄◄ or ►►| repeatedly 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.
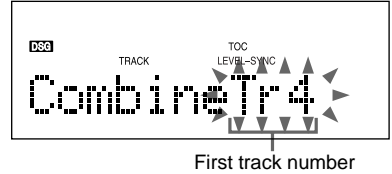
First track number

5 Press |◄◄ or ►►| repeatedly until the
second track number of the two to be
combined appears.

Second track
number to be
combined

New track number
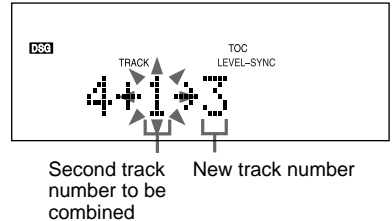
6 Press ENTER/YES.

"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 by using
Undo Function on page 55. You can also return to
the original condition by using Divide Function on
page 52.

54

Notes
- 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.

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 MD REC ● or ENTER/START button.
- Update the TOC by turning off the system or ejecting the MD.
- Disconnect the power cord.

55
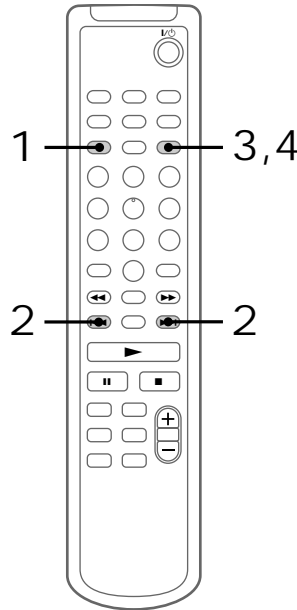
1 Press MENU/NO in stop mode to display "Edit Menu."

2 Press ⏮ or ⏭ repeatedly until "Undo ?" appears.

"Undo ?" does not appear, when there is no editing function that can be canceled.

3 Press ENTER/YES.

One of the following messages appears, depending on the last edit.

Editing done	Message
Labeling a track or an MD	
Copying a disc title or a track title	"Name Undo?"
Erasing labeled 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	"CombineUndo?"

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.

The Tape Deck — Recording

Recording your favorite CD tracks on a tape

— CD-TAPE Synchro Recording

You can select your favorite CD tracks with the Program Play feature, then record the program on a tape using the CD Synchro Recording feature. This lets you rearrange the track order while making sure the playback time fits on each side of the tape.
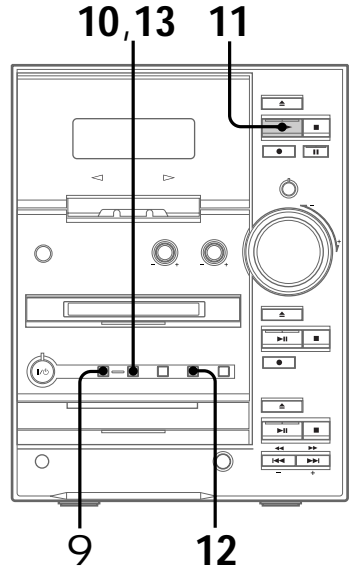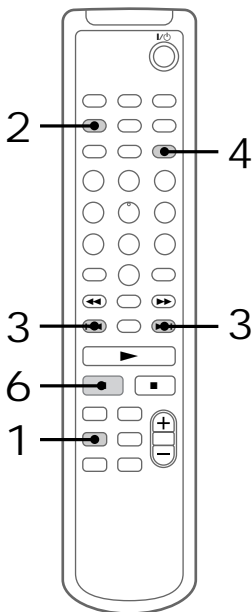
10,13   11

9   12

Selecting the tracks

1 Press CD on the remote to switch the function to CD.

2 Press PLAY MODE on the remote repeatedly until "PGM" appears.

3 Press ⏮ or ⏭ on the remote repeatedly until the desired track number appears.

Selected track number · Total playing time

4 Press ENTER/YES on the remote.

The track is programed.
"Step" appears, followed by the number of the track in the programed sequence. The number of the last programed track appears, followed by the total playing time of the program.

Last programed track number · Total playing time
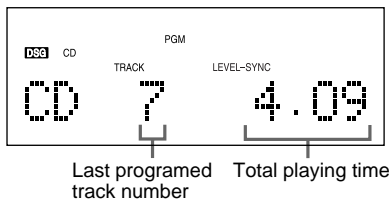
5 Repeat steps 3 and 4 to select the tracks to be recorded on the side where recording is to start.

6 Press ❙❙ on the remote.

Recording pauses at the end of the side where recording starts. "P" appears and the total playing time display changes to "0.00."

7 Repeat steps 3 and 4 to select the tracks to be recorded on the reverse side.
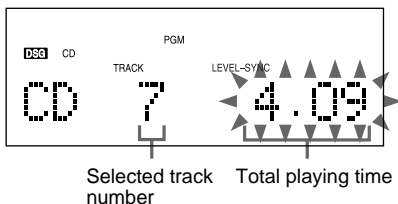
Recording on a tape

8 Insert a blank tape.

9 Press SYNCHRO REC repeatedly until "CD-TAPE SYNC" appears.

The MD Deck — Editing/The Tape Deck — Recording

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Recording your favorite CD tracks on a tape (continued)

10 Press ENTER/START.

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

11 Press TAPE ◄► to light up the right indicator to record starting from the front side.

To record from the reverse side, press TAPE ◄► again to light up the left indicator.

12 Press DIRECTION repeatedly until ⇄ appears to record on one side or ⇄⊃ (or ⊂⇄⊃) to record on both sides.

If you select both sides recording and the tape reaches the end of the front side part-way through a track, the entire track is recorded again from the beginning of the reverse side. When you start recording from the reverse side, the recording stops at the end of the reverse side even though you select ⇄⊃.

13 Press ENTER/START.

CD playing and tape recording start. When the recording is completed, the CD player and the tape deck stop automatically.

To stop recording
Press CD ■ or TAPE ■.

If the tape becomes full during recording
The CD player and the tape deck stop automatically.

To record on an MD at the same time
Insert a recordable MD and select "DUAL SYNC" in step 9 of "Recording on a tape" on page 57.

Tip
When you want to reduce the hiss noise in low-level, high-frequency signals, press DOLBY NR after step 10 so "⊡⊡" appears in the display.

Note
If "Cannot SYNC" appears, a disc or a tape is not loaded or you cannot record on that tape (see page 80).

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Recording an MD on a tape

You can make an analog recording of an MD on a tape with the tracks in the same sequence as the original MD.
You can also record a program of favorite tracks.

Recording tracks in the same sequence as the original MD
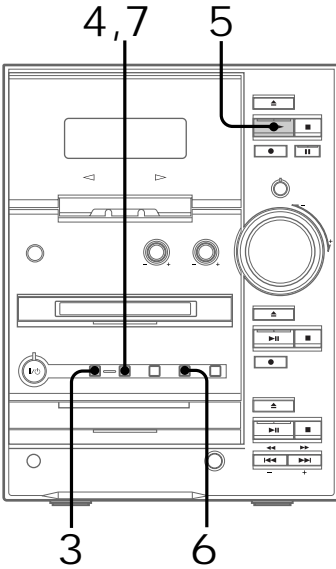
1 Insert a blank tape.

2 Insert an MD.

3 Press SYNCHRO REC repeatedly until "MD-TAPE SYNC" appears.

4 Press ENTER/START.
The tape deck stands by for recording and the MD deck pauses for play.

5 Press TAPE ◄► to light up the right indicator to record starting from the front side.
To record from the reverse side, press TAPE ◄► again to light up the left indicator.

6 Press DIRECTION repeatedly until ⇄ appears to record on one side or ⇄ (or ⊂⇄) to record on both sides.
If you select both sides recording and the tape reaches the end of the front side part-way through a track, the entire track is recorded again from the beginning of the reverse side. When you start recording from the reverse side, the recording stops at the end of the reverse side even though you select ⇄.

7 Press ENTER/START.
MD playing and tape recording start. When the recording is completed, the MD deck and the tape deck stop automatically.

To stop recording
Press MD ■ or TAPE ■.

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

continued

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Recording an MD on a tape (continued)

Tip

When you want to reduce the hiss noise in low-level, high-frequency signals, press DOLBY NR after step 4 so "□□" appears in the display.

Note

If "Cannot SYNC" appears, a disc or a tape is not loaded or you cannot record on that tape (see pages 79 and 80).

Recording your favorite MD tracks — MD-TAPE Synchro Recording

You can select your favorite MD tracks with the Program Play feature, then record the program on a tape using the MD Synchro Recording feature.
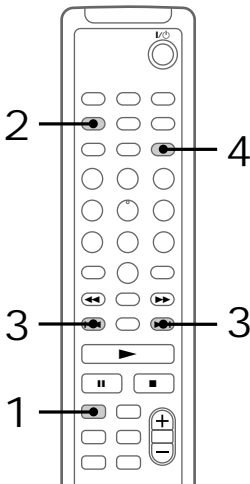
1 Press MD to switch the function to MD.

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

3 Press ⏮ or ⏭ repeatedly until the desired track number appears in the display.

Selected track number   Total playing time

4 Press ENTER/YES.

The track is programed.
"Step" appears, followed by the number of the track in the programed sequence. The number of the last programed track appears, followed by the total playing time of the program.
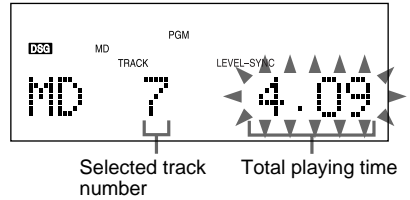
Last programed track number   Total playing time
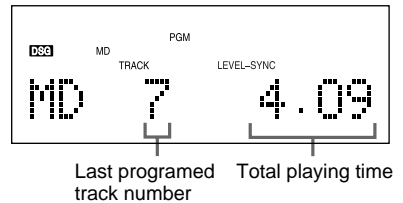
5 To program additional tracks, repeat steps 3 and 4.

6 Insert a blank tape.

7 Perform steps 3 to 7 of "Recording tracks in the same sequence as the original MD" (see page 59).

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Recording on a tape manually — Manual Recording

With manual recording, you can record just the portions you like from a CD or an MD on a tape. You can also record a radio program.

The recording level is automatically adjusted.
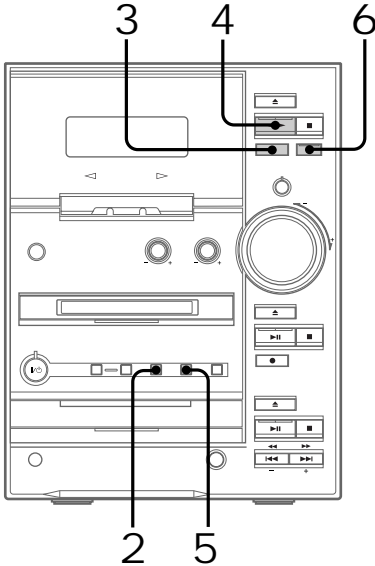
1 Insert a blank tape.

2 Press FUNCTION repeatedly to select the desired source (e.g., TUNER) to record.
- CD: Recording from the CD
- MD: Recording from the MD
- TUNER: Recording from the radio

3 Press TAPE REC ●.
The tape deck stands by for recording.

4 Press TAPE ◄► to light up the right indicator to record starting from the front side.
To record from the reverse side, press TAPE ◄► again to light up the left indicator.

5 Press DIRECTION repeatedly until ⇄ appears to record on one side or ⇄ (or ⇄) to record on both sides.
When you start recording from the reverse side, the recording stops at the end of the reverse side even though you select ⇄.

6 Press TAPE ❚❚.
Recording starts.

7 Start playing the desired source to record.

| To	Press
Stop recording	TAPE ■.
Pause	TAPE ❚❚.

Tip

When you want to reduce the hiss noise in low-level, high-frequency signals, press DOLBY NR after step 3 so "□□" appears in the display.

The Tape Deck — Recording

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Adjusting the sound

Not only can you adjust the bass and treble, you can use the DSG (Dynamic Sound Generator) function to enjoy a more powerful sound.
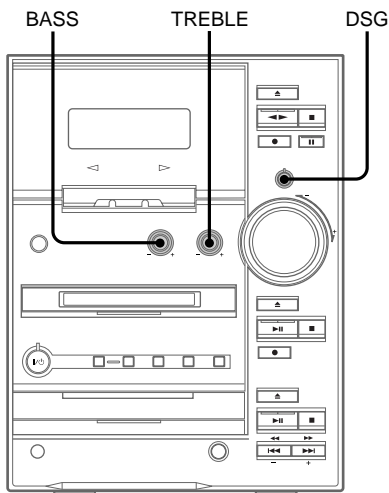
BASS   TREBLE   DSG

Generating a more dynamic sound

➡ Press DSG.
  When DSG is on, "DSG" lights up in the display.

To cancel the DSG

Press DSG to turn off "DSG".

Adjusting the bass

➡ Turn BASS.
  You can adjust the bass in 9 steps (from MIN to MAX).

Adjusting the treble

➡ Turn TREBLE.
  You can adjust the treble in 9 steps (from MIN to MAX).

To adjust the bass and treble using the remote

1 Press BASS/TRE to select BASS or TREBLE.
  Each time you press the button, the display changes as follows:
  BASS ←→ TREBLE

2 While BASS or TREBLE appears in the display, press �◄◄ or ►►▐ repeatedly until the level you want appears.

Labeling 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.

2 1 3

4,5   **9**

CLEAR

CURSOR←   **7**

6   **6**
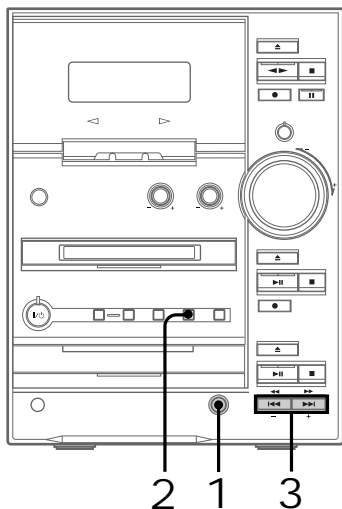
1 Press TUNER/BAND to select "FM" or "AM."

2 Press TUNING MODE repeatedly until "PRESET" appears.

3 Press TUNING + or – repeatedly until the desired preset station to label appears.

4 Press NAME EDIT on the remote.
The text input screen appears, and the cursor flashes.

DSG   PRESET LEVEL–SYNC

Cursor
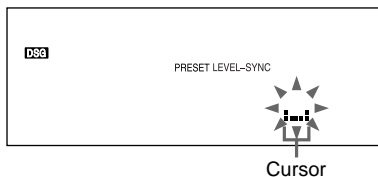
5 Press CHARACTER on the remote to select the desired type of character.
Each time you press the button, the display changes as follows:

␣ (Blank space) → A (Upper cases) →
a (Lower cases) → 0 (Numbers) →
! (Symbols) → ␣ (Blank space) → ···

Other Features

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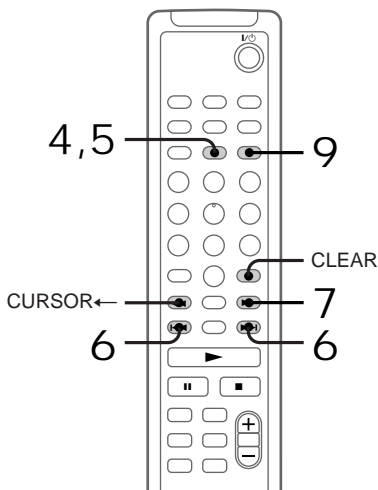
Labeling the preset stations (continued)

6 Press |◄◄ or ►►| on the remote repeatedly to select the desired character.

To enter a blank space

Press CURSOR→ without pressing |◄◄ or ►►|. You cannot enter a space as the first character.

To enter a symbol

You can use the following 24 symbols.

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

7 Press CURSOR→ on the remote.

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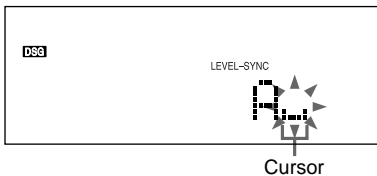
Cursor

8 Repeat steps 5 to 7 to complete the entire title.

If you made a mistake

Press CURSOR← or → until the character you want to change flashes, then repeat steps 5 to 7.

To erase a character

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

9 Press ENTER/YES on the remote to complete the labeling procedure.

To cancel labeling

Press MENU/NO on the remote.

To check the preset number and frequency

The station name appears when you tuned the labeled station.
To check the preset number and frequency, press DISPLAY on the remote. The preset number and frequency appear, followed by the station name.

To erase the station name

1 Perform steps 1 to 4.
2 Press CLEAR on the remote repeatedly to erase the name.
3 Press ENTER/YES on the remote.

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Using the Radio Data System (RDS)

(European model only)

What is the Radio Data System?

Radio Data System (RDS) is a broadcasting service that allows radio stations to send additional information along with the regular program signal. RDS is available only on FM stations*.

Note

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

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

Receiving RDS broadcasts

→ Simply select a station from the FM band.

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

To check the RDS information

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

→ Station name*
↓
Frequency
↓
Program type*
↓
Clock display
↓
BASS level
↓
TREBLE level
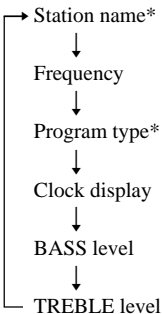
* If the RDS broadcast is not received, the station name and program type (see page 85) may not appear in the display.

Falling asleep to music

— Sleep Timer

You can set the system to turn off after a certain amount of time, so that you can fall asleep to music. You can preset the time to turn off in 10 minutes increments.
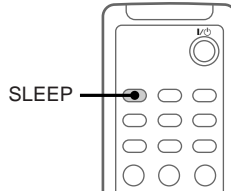
SLEEP

→ Press SLEEP repeatedly to select a desired time.

Each time you press the button, the minute display (the remaining time) changes as follows:

→ SLEEP OFF → AUTO
10min ← ··· ← 80min ← 90min ←
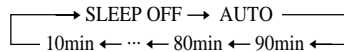
To check the remaining time

Press SLEEP once. However, the remaining time is not displayed when "AUTO" is set.

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.

Other Features

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Falling asleep to music (continued)

When you select "AUTO"

The system automatically turns off after the CD, MD or tape finishes playing (up to 100 minutes). When the function is TUNER, the system turns off in 100 minutes.

Tip

You can use the Sleep Timer, even if you have not set the clock.

Note

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

Waking up to music

— Daily Timer

You can wake up to music at a preset time. Make sure you have set the clock (see page 6).
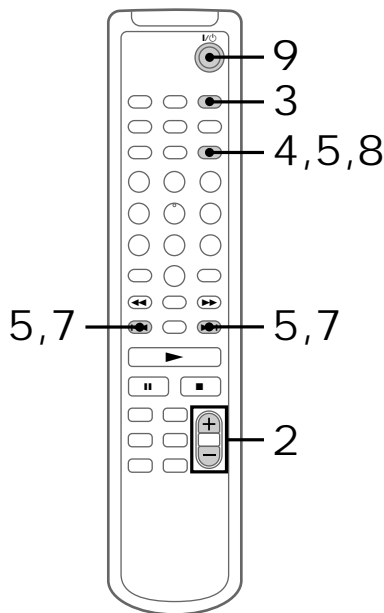
1 Prepare the sound source you want to play.

- CD: Place a CD. To start from a specific track, make a program (see page 23).
- MD: Insert an MD. To start from a specific track, make a program (see page 29).
- Tape: Insert a tape.
- Radio: Tune in a station (see page 7).

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2 Press VOLUME +/– to adjust the volume.

3 Press CLOCK/TIMER SET.
"SET DAILY" appears.

4 Press ENTER/YES.
"ON" lights up, and the hour indication flashes.

5 Set the time to start playing.
Press |◄◄ or ►►| repeatedly to set the hour, then press ENTER/YES.
The minute indication flashes.
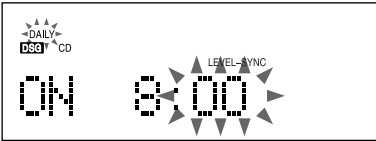
```
  ◄DAILY►
  DSG  CD              LEVEL-SYNC
                          ▲
  ▄▄    ▄▄▄▄ ▄▄▄▄       ►
  ██  • ██   ██
  ██  • ██▄▄ ██▄▄      ►
                       ▼ ▼ ▼ ▼
```

Press |◄◄ or ►►| repeatedly to set the minute, then press ENTER/YES.
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 ←
↳ TAPE PLAY ↔ MD PLAY ←
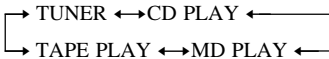
8 Press ENTER/YES.
The start time, the stop time, and the sound source appear in turn, then the original display returns.

9 Press I/⏻ to turn off the system.

To change the setting
Start over from step 1.

To check the setting/activate the timer
1 Press CLOCK/TIMER SELECT.
2 Press |◄◄ or ►►| repeatedly until "SET DAILY" appears, then press ENTER/YES.

To cancel the timer
Press CLOCK/TIMER SELECT, then press |◄◄ or ►►| repeatedly until "TIMER OFF" appears. Then press ENTER/YES.

Notes
• You cannot activate Daily Timer and recording timer at the same time.
• Do not operate the system from the time the system turns on until the play starts (about 30 seconds before the preset time).
• If the system is on at the preset time, the set sound source starts playing.
• You cannot use the optional components connected to the VIDEO IN jack as the sound source for Daily Timer.

Other Features

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Timer recording radio programs

To timer record, you must first preset the radio station (see page 7) and set the clock (see page 6).
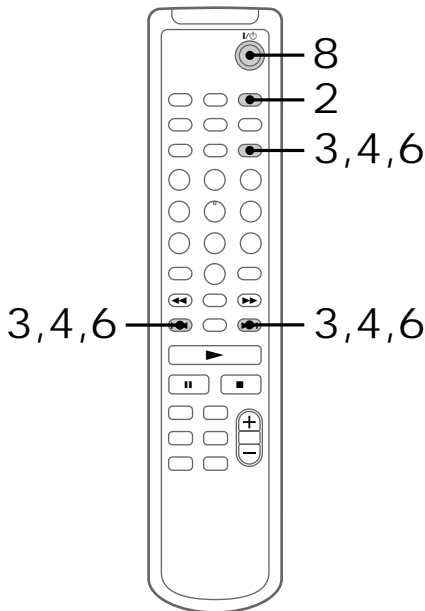
1 Tune in the preset radio station (see page 18).

2 Press CLOCK/TIMER SET.
"SET DAILY" appears.

3 Press ►◄◄ or ►►► to select either "MD REC" or "TAPE REC", then press ENTER/YES.
"ON" lights up, and the hour indication flashes.

**4** Set the time to start recording.
Press ►◄◄ or ►►► repeatedly to set the hour, then press ENTER/YES.
The minute indication flashes.

Press ►◄◄ or ►►► repeatedly to set the minute, then press ENTER/YES.
The hour indication flashes again.

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

6 When you record onto an MD, select STEREO or MONO by pressing ►◄◄ or ►►►, then press ENTER/YES.
The timer recording settings appear, then the original display returns.

7 Insert a recordable MD or tape.
If you use a partially recorded MD, recording starts after the recorded tracks.
If you use a tape, recording starts from the front side. Insert a tape with the side you want to record on facing you.

8 Press I/⏻ to turn off the system.

To change the setting

Start over from step 1.

To check the setting/activate the timer

1 Press CLOCK/TIMER SELECT.

2 Press ⏮ or ⏭ to select either "MD REC" or "TAPE REC", then press ENTER/YES.

To cancel the timer

Press CLOCK/TIMER SELECT and press ⏮ or ⏭ repeatedly until "TIMER OFF" appears. Then press ENTER/YES.

Tip

When you record from the radio, the station name (see page 63, or frequency when the station is not labeled), the start time and the stop time are automatically recorded on the MD.

Notes

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

Connecting optional components

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 an MD deck and a tape deck for analog recording

You can connect an MD deck and a tape deck to the system with commercially available audio cords. Be sure to match the color-coded pins to the appropriate jacks.

To the audio input jacks on the MD deck or the tape deck
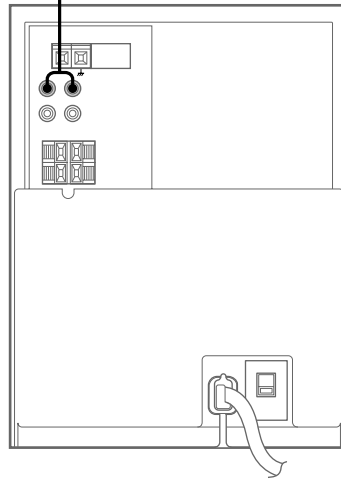
Connecting optional A/V components (continued)

Connecting a VCR

You can connect a VCR to the system with a commercially available audio cord. Be sure to match the color-coded pins to the appropriate jacks. To listen to the VCR after connecting it, press FUNCTION until "VIDEO" appears.
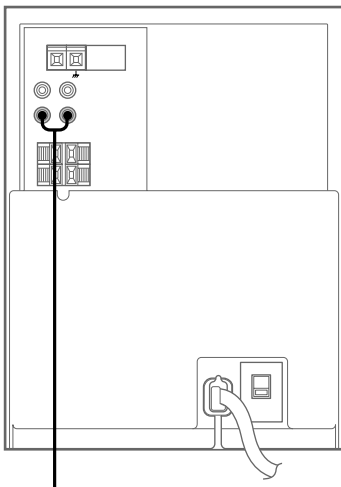
To the audio output jacks on the VCR

Connecting headphones

Connect headphones to the PHONES jack.
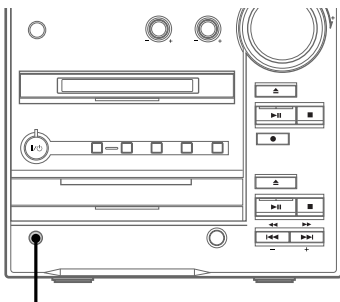
PHONES jack

Connecting external antennas

Connect an external antenna to improve reception.

FM antenna

Connect an commercially available FM external antenna, or you can use a TV antenna instead.

Jack type Ⓐ

ANTENNA
AM FM75Ω

IEC standard socket connector (not supplied)

Jack type Ⓑ

ANTENNA
AM FM75Ω

75-ohm coaxial cable (not supplied)

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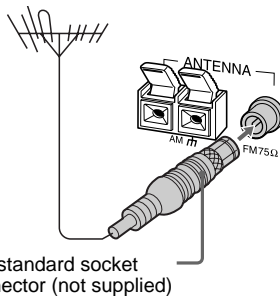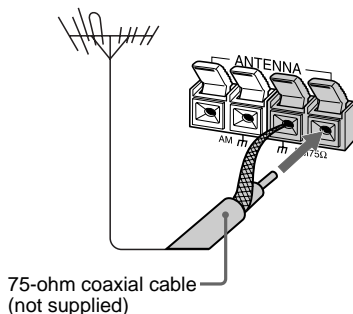
AM antenna

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

Jack type Ⓐ

Insulated wire (not supplied)

ANTENNA

AM ⊥ FM75Ω

Jack type Ⓑ

Insulated wire (not supplied)

ANTENNA

AM ⊥ FM75Ω
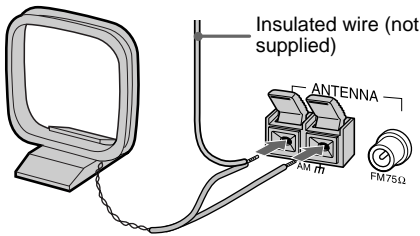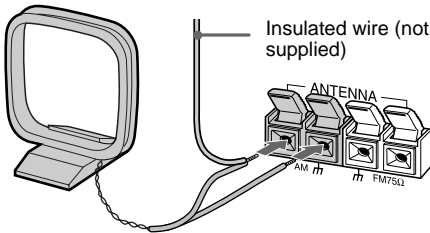
Important

If you connect an external antenna, connect a ground wire to the ⊥ terminal. To prevent a gas explosion, do not connect the ground wire to a gas pipe.

Precautions

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 power cord, 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.
- AC power cord (mains lead) must be changed only at the qualified service shop.
- When you connect the power cord to the AC power source, even if the power is off, the system begins charging for remote and timer functions. Therefore the surface of this unit become warm, this is normal.

On placement

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

Connecting optional components/Additional Information

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Precautions (continued)

On operation

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

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

On the speaker system

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

Notes on MDs

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

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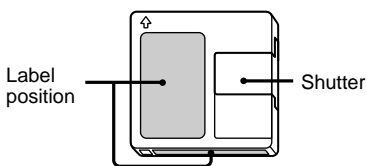
- Wipe the disc cartridge with a dry cloth to remove dirt.
- Do not expose the MD to direct sunlight or heat sources such as hot air ducts, nor leave it in a car parked in direct sunlight.

Notes on CDs

- Before playing, clean the CD with a cleaning cloth. Wipe the CD from the center out.
- Do not use a CD with tape, seals, or paste on it as this may damage the player.
- Do not use solvents such as benzine, 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.

Cleaning the cabinet

Use a soft cloth slightly moistened with mild detergent solution.

Before placing a cassette in the tape deck

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

When using a tape longer than 90 minutes

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

To save a tape permanently

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

Detector slots

Tab of side B   Tab of side A

Side A

Break off the cassette tab of side A
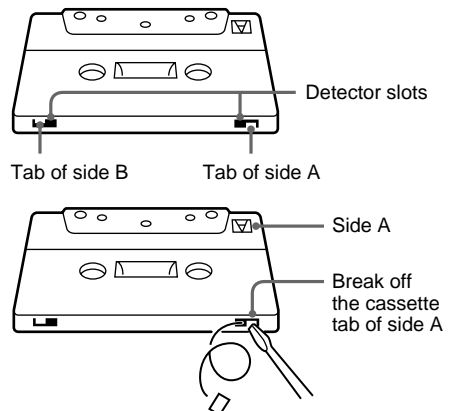
If you later want to reuse the tape for recording, cover the broken tab with adhesive tape. However, be careful not to cover the detector slots which allow the tape deck to automatically detect the type of tape.

TYPE II (CrO2)   TYPE I (normal)

Detector slots
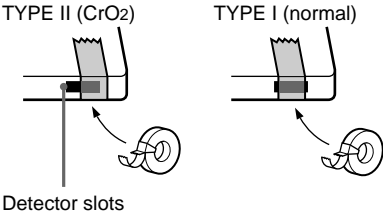
Cleaning the tape heads

Clean the tape heads after every 10 hours of use. When the tape heads become dirty;
— the sound is distorted
— there is a decrease in sound level
— the sound drops out
— the tape does not erase completely
— the tape does not record.
Be sure to clean the tape heads before you start an important recording or after playing an old tape. Use a separately sold dry-type or wet-type cleaning cassette. For details, refer to the instructions of the cleaning cassette.

Demagnetising the tape heads

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

System limitations of MDs

The recording system in your MD deck has the limitations described below.
Note, however, that these limitations are due to the inherent nature of the MD recording system itself, not to mechanical causes.

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

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

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

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

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

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

Some tracks cannot be combined with others

Track combination may become impossible when tracks are shorter than 8 seconds. Track combination of edited tracks may also become impossible.

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.

Additional Information

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The sound may drop-out while searching the edited tracks

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

Track numbers cannot be marked

When "LEVEL-SYNC" (page 37) lights up in the display window during analog recording, the track numbers may not be marked at the beginning of the track:
• if the input signal is below a certain fixed level for less than two seconds between tracks.
• if the input signal is below a certain fixed level for more than two seconds in the middle of the track.

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 programs, 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.
That is:
1 You can make a copy of a commercially available digital sound program (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 analog sound program (for example, an analog record or a music cassette tape) or from a digital satellite broadcast program, 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.

Troubleshooting

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

First, check that the power cord is connected firmly and that the speakers are connected correctly and firmly.

Should any problem persist, consult your nearest Sony dealer.

General

Thereisnosound.
• Turn VOLUME clockwise.
• Make sure the headphones are not connected.
• Check the speaker connections (see page 4).

Soundcomesfromonechannel,or unbalancedleftandrightvolume.
• Connect the speaker cords properly (see page 4).
• Place the speakers as symmetrically as possible.
• Connect only one of the supplied speakers to each set of speaker terminals.
• Connect the supplied speakers.

Thereisseverehumornoise.
• Move the system away from the source of noise.
• Connect the system to a different wall outlet.
• Install a noise filter (commercially available) to the power line.

"0:00"(forEuropeanmodel)or"12:00 AM" (forothermodels)flashesinthedisplay.
• Set the clock and timer again (see pages 6, 66 and 68).

Thetimercannotbeset.
• Set the clock again (see page 6).

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The timer does not function.
- Press CLOCK/TIMER SELECT to set the timer and light up "DAILY" or "REC" in the display (see pages 67 and 69).
- Check the set contents and set the correct time (see pages 6, 66 and 68).
- Cancel the Sleep Timer function (see page 65).

The remote does not function.
- Remove the obstacle.
- Move the remote closer to the system.
- Point the remote at the system's sensor.
- Replace the batteries (size AA/R6).
- Locate the system away from the fluorescent light.

"PROTECT" and "PUSH POWER" appear alternately.
- Press I/ᶜᵖ (power) to turn off the system. Turn on the system again after a while.

CD Player

The CD tray does not close.
- Place the CD correctly in the center of the tray.
- Always close the tray by pressing CD ▲. Trying to push the tray closed with your fingers may cause problems with the CD player.

The CD does not eject.
- Consult your nearest Sony dealer.

Play does not start.
- Open the CD tray and check whether a CD is loaded.
- Wipe the CD clean (see page 72).
- Replace the CD.
- The CD is placed with the label side down. Place the CD correctly in the center of the tray.
- Remove the CD and wipe away the moisture on the CD, then leave the system turned on for a few hours until the moisture evaporates.
- Press CD ►❚❚ to start play.

The sound skips.
- Wipe the CD clean (see page 72).
- Replace the CD.
- Try moving the system to a place without vibration (e.g., on top of a stable stand).
- Try moving the speakers away from the system, or placing them on separate stands. When you listen to a track with bass sounds at high volume, the speaker vibration may cause the sound to skip.

Play does not start from the first track.
- Press PLAY MODE repeatedly until "PGM" or "SHUFFLE" disappears to return to normal play.

"—OVER—" appears.
- Press and hold ◄◄ or press ◄◄ to return to the desired playing position.

Troubleshooting (continued)

MD Deck

An MD cannot be inserted.

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

The controls do not work.

• Replace the MD with a new one.
• Retry the operations after "TOC" or "STANDBY" turns off.

Play does not start.

• Replace the MD.
• Insert the MD and leave the system turned on for a few hours until the moisture evaporates.
• Press MD ►II 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 until "PGM" or "SHUFFLE" disappears to return to normal play.

"—OVER—" appears.

• Press and hold ◄◄ or press I◄◄ to return to the desired playing position.

"OVER" lights up during recording.

• Set the volume of the connected component lower (see page 41).

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 32 and 44).

Recording is not possible.

• Remove the MD and slide the tab to close the slot (see page 32).
• Connect the optional A/V component properly (see page 69).
• Switch to another sound source.
• Replace the MD with a recordable MD, or use Erase Function to erase unnecessary tracks (see page 47).
• 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 41).

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Tape Deck

The tape does not record.

- No cassette is inserted. Insert a cassette.
- The tab has been removed from the cassette. Cover the broken tab with adhesive tape (see page 73).
- The tape has wound to the end.

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

- The heads are dirty. Clean them.
- The record/playback heads are magnetised. Demagnetise them (see page 73).

The tape does not erase completely.

- The record/playback heads are magnetised. Demagnetise them (see page 73).

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

- The capstans or pinch rollers in the tape deck are dirty. Clean them using a cleaning cassette (see page 73).

Noise increases or the high frequencies are erased.

- The record/playback heads are magnetised. Demagnetise them (see page 73).

Optional components

There is no sound.

- Refer to General item "There is no sound" on page 74 and check the condition of the system.
- Connect the component properly (see page 69) while checking:
  – if the cords are connected properly.
  – if the cord plugs are firmly inserted all the way.
- Turn on the connected component.
- Refer to the operating instructions included with the connected component and start playing.

The sound is distorted.

- Adjust the recording level (see page 41).

Tuner

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

- Set the proper band and frequency (see page 7).
- Connect the antenna properly (see page 4).
- Find a place and an orientation that provide good reception, then set up the antenna again. If you cannot obtain good reception, we recommend you connect a commercially available external antenna.
- The supplied FM lead antenna receives signals along its entire length, so make sure you extend it fully.
- Locate the antennas as far away from the speaker cords as possible.
- Consult your nearest Sony dealer if the supplied AM antenna wire has come off the plastic stand.
- Try turning off surrounding electrical equipment.

Additional Information

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Troubleshooting (continued)

A stereo FM program cannot be received in stereo.

- Press STEREO/MONO until "STEREO" appears in the display.
- See "There is severe hum or noise ("TUNED" or "STEREO" flashes)", and check the antenna condition.

Cyclical static noise is heard while recording on an MD.

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

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

Press the RESET switch on the bottom of the system using a ball-point pen, etc.

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

Self-diagnosis display

This system has a Self-diagnosis display function to let you know if there is a system malfunction. The display shows a code made up of three letters and a message alternately to show you the problem. To solve the problem refer to the following list. If any problem persists, consult your nearest Sony dealer.
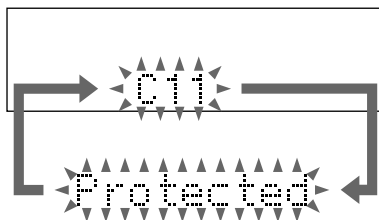
C11/Protected

The MD is protected against erasure.

➔ Remove the MD and slide the tab to close the slot (see page 32).

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/ReadError

The MD deck cannot read the disc information properly.

➔Remove the MD once, then insert it again.

C14/TocError

The MD deck cannot read the disc information properly.

➔Replace the MD.

➔Erase all the recorded contents of the MD using All Erase Function (see page 48).

C41/CannotCopy

The sound source is a copy of 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 74). You cannot record a CD-R.

Messages

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

MD

AutoCut

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

BlankDisc

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

CannotEdit

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

CannotREC

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

CannotSYNC

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

Complete!!

The editing operation of MDs is completed.

DiscFull!!

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.

NameFull

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

NoDisc

There is no disc in the MD deck.

NoName

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

—OVER—

You have reached the end of the MD while press and hold ►► during playing pause.

PushSTOP!

You pressed PLAY MODE during play.

—Rehearsal—

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

SmartSpace

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

continued

Additional Information

Self-diagnosis display (continued)

Standby(flashing)

The timer-recorded material has disappeared over time and is not available for saving to disc, or Program Play could not be activated since the program has disappeared over time.

TextProtect

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

TOCReading

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

TOCWriting

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

TrackEnd

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

TUNER

CannotEdit

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

CD

CannotEdit

You tried to label a CD TEXT disc.

NameFull

There are already 50 disc titles stored in the system.

—OVER—

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

TAPE

CannotSYNC

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

NoTAB

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

Notape

There is no tape in the tape deck.

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Specifications

Main Unit (HCD-CP33)

Amplifier section

For the U.S. model

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC
DISTORTION:

With 6-ohm loads, both channels driven, from
70 – 20,000 Hz; rated 18 watts per channel
minimum RMS power, with no more than 0.9%
total harmonic distortion from 250 milliwatts to
rated output.

North American model:
Continuous RMS power output (reference):
  35 + 35 watts
  (6 ohms at 1 kHz, 10% THD)
Total harmonic distortion: less than 0.07%
  (6 ohms at 1 kHz, 18 W)

European model:
DIN power output (Rated): 30 + 30 watts
  (6 ohms at 1 kHz, DIN, 230 V)
Continuous RMS power output (Reference):
  35 + 35 watts
  (6 ohms at 1 kHz,
  10% THD, 230 V)
Music power output (Reference):
  85 + 85 watts

Other models:
The following measured at 230 V AC, 60 Hz
DIN power output (rated): 28 + 28 watts
  (6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference):
  30 + 30 watts
  (6 ohms at 1 kHz, 10% THD)
The following measured at 220 V AC, 60 Hz
DIN power output (rated): 24 + 24 watts
  (6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference):
  25 + 25 watts
  (6 ohms at 1 kHz, 10% THD)

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

Outputs
LINE OUT (phono jack): voltage 250 mV, impedance 1
  kilohm
PHONES (stereo minijack):
  accepts headphones of 8 ohms or
  more.
SPEAKER: accepts impedance of 6 to
  16 ohms.

CD player section

System	Compact disc and digital audio system
Laser	Semiconductor laser (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.
Frequency response	2 Hz – 20 kHz

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	5 Hz – 20 kHz

Tape deck section

Recording system	4-track 2-channel stereo
Frequency response	(DOLBY NR OFF)
	40 – 13,000 Hz ($\pm$3 dB), using Sony TYPE I cassettes
	40 – 14,000 Hz ($\pm$3 dB), using Sony TYPE II cassettes
Wow and flutter	$\pm$0.13% W. Peak (IEC)
	0.07% W. RMS (NAB)
	$\pm$0.2% W. Peak (DIN)

Additional Information

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Specifications (continued)

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range
North American model: 87.5 – 108.0 MHz
(100 kHz step)
Tourist model: 76.0 – 108.0 MHz
(50 kHz step)
Other models: 87.5 – 108.0 MHz
(50 kHz step)
Antenna FM lead antenna
Antenna terminals 75 ohms unbalanced
Intermediate frequency 10.7 MHz

AM tuner section

Tuning range
Pan-American model: 530 – 1,710 kHz
(with the interval set at 10 kHz)
531 – 1,710 kHz
(with the interval set at 9 kHz)
European model: 531 – 1,602 kHz
(with the interval set at 9 kHz)
Other models: 531 – 1,602 kHz
(with the interval set at 9 kHz)
530 – 1,710 kHz
(with the interval set at 10 kHz)
Antenna AM loop antenna
External antenna terminals
Intermediate frequency 450 kHz

Speaker (SS-CCP33)

Speaker system 2-way, bass-reflex type
Speaker units
Woofer: 12 cm dia., cone type
Tweeter: 2.5 cm dia., balanced drive type
Nominal impedance 6 ohms
Dimensions (w/h/d) Approx. $150 \times 252 \times 255$ mm
Mass Approx. 2.6 kg net per speaker

General

Power requirements
North American model: 120 V AC, 60 Hz
European model: 230 V AC, 50/60 Hz
Australian and Thai models:
220 – 240 V AC, 50/60 Hz
Other models: 110 – 120 V or 220 – 240 V AC,
50/60 Hz
Adjustable with voltage selector
Power consumption 75 watts
Dimensions (w/h/d) incl. projecting parts and controls
Amplifier/Tuner/Tape/MD/CD section:
Approx. $190 \times 252 \times 280$ mm
Mass
Amplifier/Tuner/Tape/MD/CD section:
Approx. 7.5 kg
Supplied accessories Remote (1)
Size AA (R6) batteries (2)
AM loop antenna (1)
FM lead antenna (1)

Design and specifications are subject to change
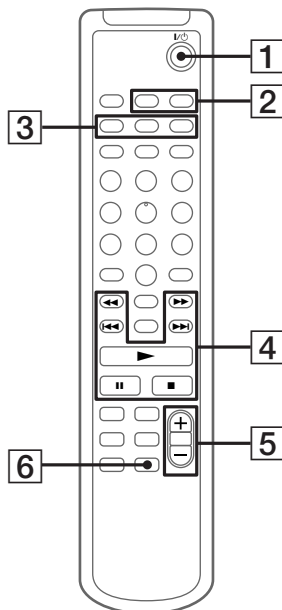without notice.

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Parts descriptions for the remote

You can use the supplied remote to control the system.

Note

You cannot perform the following operations with the remote;
— TUNING MODE setting for the tuner
— STEREO/MONO setting for the tuner
— Removing discs
— Recording on the MD or the tape
— One Touch Play

1 **I/** **(power) switch**

2 **CLOCK/TIMER SELECT button**

Press to check timer settings, or to set the timer on/off (pages 67 and 69).

CLOCK/TIMER SET button

Press to set the clock and timer functions (pages 6, 67 and 68).

3 **PLAY MODE button**

Press to select normal play, Shuffle Play or Program Play (pages 23, 28, 29, 33 and 60).

REPEAT button

Press to play a track or all the tracks repeatedly (pages 22 and 28).

BASS/TRE button

Press to adjust the bass and treble (page 62).

4 **CURSOR←/→, ◄◄/►► buttons**

Press to label a CD, MD and preset station, or to set the clock (pages 6, 27, 46 and 64).
The ◄◄/►► buttons locate a desired point in a track during MD playing pause, or during CD play or pause.

I◄◄ /►►I (AMS: Automatic Music Sensor) buttons

► (play) button

II (pause) button

■ (stop) button

5 **VOLUME +/– buttons**

Press to adjust the volume.

6 **DSG button**

Press to generate a more dynamic sound (page 62).

continued

Additional Information

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Parts descriptions for the remote (continued)
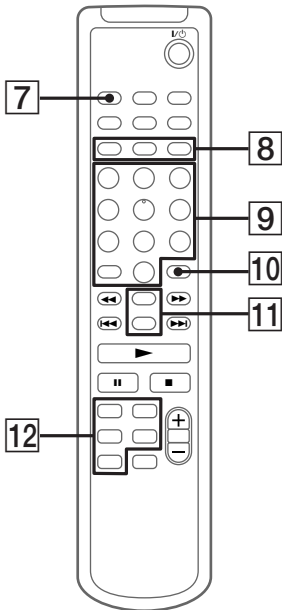
[7] **SLEEP button**

Press to set Sleep Timer (page 65).

[8] **MENU/NO button**

Press to preset stations, to enter the settings in "Edit Menu" or "Setup Menu", or to cancel editing.

NAME EDIT/CHARACTER button

Press to display the text input screen and to select the type of characters to be input (pages 26, 45 and 63).

ENTER/YES button

Press to set the clock, Program Play and to complete presetting stations or editing.

[9] **Number buttons**

Press to select track numbers of a CD, MD, or preset station.

[10] **CLEAR button**

Press to cancel the selection (pages 24, 27, 30, 46 and 64).

[11] **SCROLL button**

Press to display the disc title or track title scrolling (pages 27, 31 and 46).

DISPLAY button

Press to show the various information (pages 24, 25, 29, 30 and 64).

[12] **The sound source buttons**

MD button

CD button

FUNCTION button

Press to switch the sound source.

Each time you press this button, the sound source changes as follows:

```
  ┌──→ MD ──→ TAPE ──→ CD ──┐
  │                          │
  └── VIDEO ←── TUNER ←──────┘
```

BAND, TUNER button

Press to select the tuner for the sound source, or to select the FM or AM band.

TAPE button

List of program types (PTY)

NEWS

News programs.

AFFAIRS

Topical programs that expand on current news.

INFO

Programs about consumer affairs, medical advice.

SPORT

Sports programs.

EDUCATE

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

DRAMA

Radio plays and serials.

CULTURE

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

SCIENCE

Programs about the natural sciences.

VARIED

Programs containing celebrity interviews, panel games, and comedy.

POPM

Popular music programs.

ROCKM

Rock music programs.

EASYM

Easy listening (middle of the road music).

LIGHTM

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

CLASSICS

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

OTHERM

Music, such as rhythm and blues and reggae.

WEATHER

Weather information.

FINANCE

Stock market reports and trading, etc.

CHILDREN

Programs for young.

SOCIAL

Programs about people and the things that affect them.

RELIGION

Programs of religious contents.

PHONEIN

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

TRAVEL

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

LEISURE

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

JAZZ

Jazz programs.

COUNTRY

Country music programs.

NATIONM

Programs featuring the popular music of the country or region.

OLDIES

Programs featuring oldies music.

FOLKM

Folk Music Programs.

DOCUMENT

Investigative features.

TEST

Test signal for emergency broadcasts.

ALARM

Emergency broadcasts.

NONE

Any programming not defined above.

Additional Information

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Additional Information

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