SONY®

Mini Hi-Fi Component System

Operating Instructions

Owner's Record

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

Model No. ———————— Serial No. ————————

COMPACT
DISC
DIGITAL AUDIO
TEXT

MHC-BX9/DX9
MHC-BX7/DX7
MHC-BX5/DX5

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About this manual

The instructions in this manual are for MHC-BX9/DX9/BX7/DX7/BX5 and DX5. MHC-BX9 is the model used for illustration purposes only. The location of some buttons on MHC-DX9/BX7/DX7/BX5/DX5 is different, but the name of the buttons is the same.

Table of Contents

* European model only

Step 1: Hooking up the system

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

Surround speaker* (Right)　　　　AM loop antenna　　　　Surround speaker* (Left)

FM antenna

3

2

1

4

5

Front speaker
(Right)
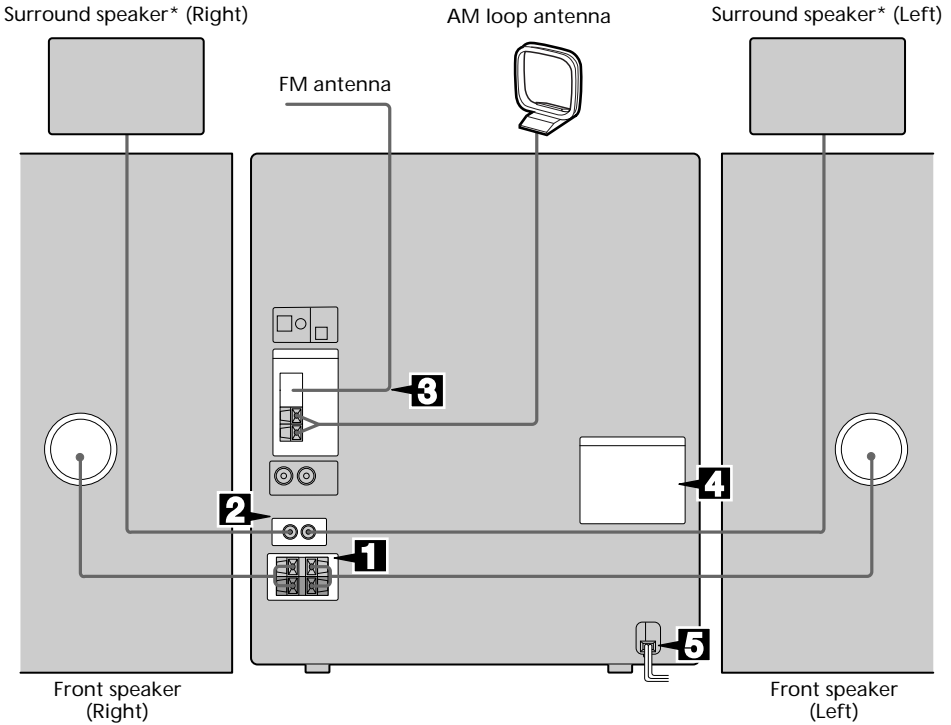
Front speaker
(Left)

* MHC-BX7/DX7 only.

1 Connect the speakers.

Connect the speaker cords of front speakers to the SPEAKER jacks as below.

Insert only the stripped portion.

R

+

L

+
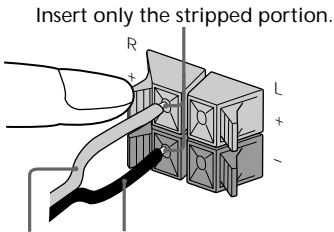
Red/Solid (⊕)　　Black/Stripe (⊖)

2 Connect the surround speaker (MHC-BX7/DX7 only).

Connect the speaker cords to SURROUND SPEAKER jacks.

R

L
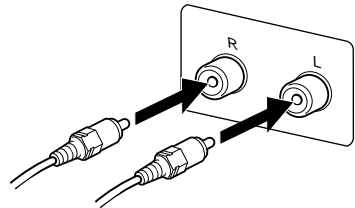
Notes

• Keep the speaker cords away from the antennas to prevent noise.
• The type of speakers supplied varies according to the model you purchased (see "Specifications" on page 45).

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3 Connect the FM/AM antennas.

Set up the AM loop antenna, then connect it.

Jack type Ⓐ

AM loop antenna

Extend the FM lead antenna horizontally.

FM75Ω
COAXIAL
AM

Jack type Ⓑ

AM loop antenna

Extend the FM lead antenna horizontally.

FM75Ω
COAXIAL
AM

---
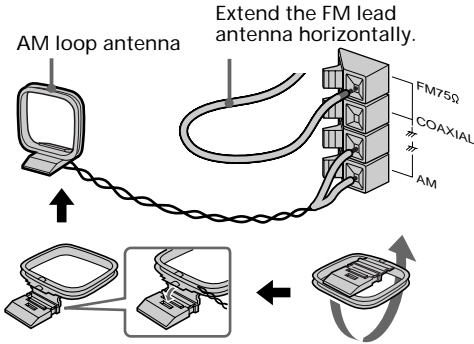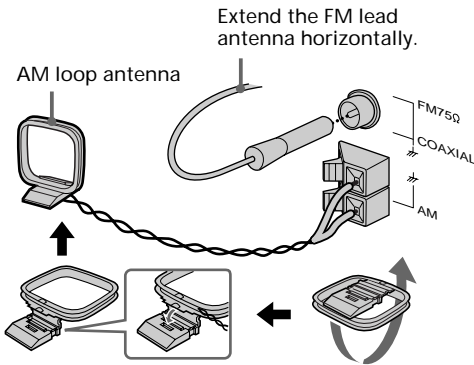
4 For models with a voltage selector, set VOLTAGE SELECTOR to the position of your local power line voltage.

VOLTAGE   SELECTOR

230 - 240V

120V   220V

---
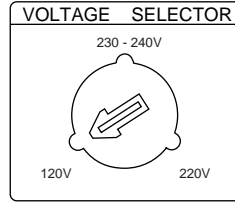
5 Connect the power cord to a wall outlet.

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

If the supplied adaptor on the plug does not fit your wall outlet, detach it from the plug (only for model equipped with an adaptor).

To connect optional components
See page 38.

To deactivate the demonstration
When you set the time (see "Step 2: Setting the time"), the demonstration is deactivated.

To activate/deactivate the demonstration again, press DISPLAY once (MHC-DX9/DX7/DX5) or twice (MHC-BX9/BX7/BX5) while the system is off.

5

To attach the front speaker pads

Attach the supplied front speaker pads to the bottom of the speakers to stabilize the speakers and prevent them from slipping.
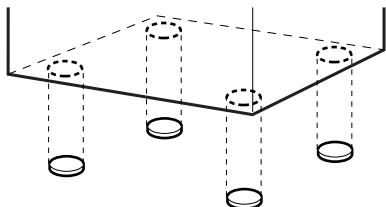
Positioning the speakers (MHC-BX7/DX7 only)

Before you connect them, determine the best location for your speakers.

1 Place the front speakers at an angle of 45 degrees from your listening position.

Front speaker (L)　　Front speaker (R)

Surround speaker (L)　　45°　　Surround speaker (R)
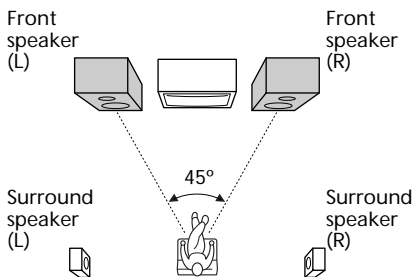
2 Place the surround speakers facing each other at about 60 to 90 cm above your listening position.

60 to 90 cm　　Surround speaker
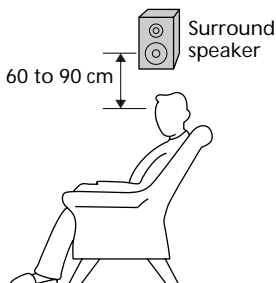
Inserting two size AA (R6) batteries into the remote
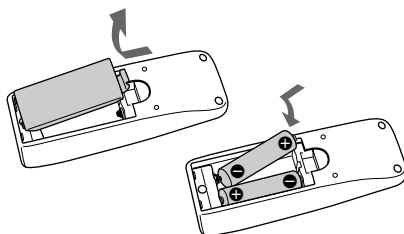
Tip

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.

Note

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

When carrying this system

Do the following to protect the CD mechanism.

1 Make sure that all discs are removed from the unit.

2 Hold down CD and then press I/⏻ so that "LOCK" appears in the display.

3 Unplug the AC power cord.

Step 2: Setting the time

You must set the time before using 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 model is used for illustration purposes.
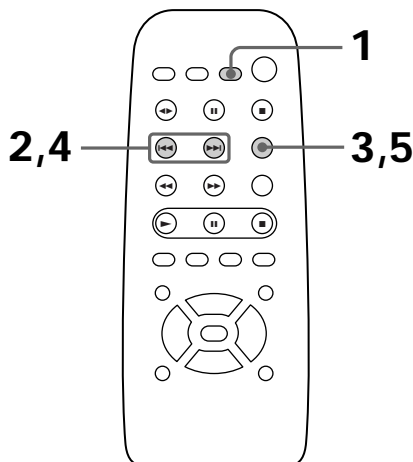
1 Press CLOCK/TIMER SET.
The hour indication flashes.

2 Press ◄◄ or ►► repeatedly to set the hour.

3 Press ENTER.
The minute indication flashes.
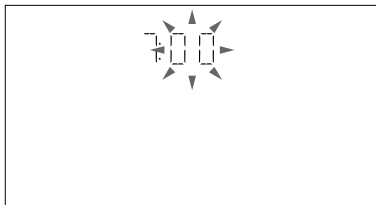
4 Press ◄◄ or ►► repeatedly to set the minute.

5 Press ENTER.
The clock starts working.

Tip
If you've made a mistake, start over from step 1.

To change the time
The previous explanation shows you how to set the time while the power is off. To change the time while the power is on, do the following:
1 Press CLOCK/TIMER SET.
2 Press ◄◄ or ►► repeatedly to select
  SET CLOCK.
3 Press ENTER.
4 Perform steps 2 through 5 above.

Note
The clock settings are canceled when you disconnect the power cord or if a power failure occurs.

Step 3: Presetting radio stations

You can preset 20 stations for FM and 10 stations for AM.
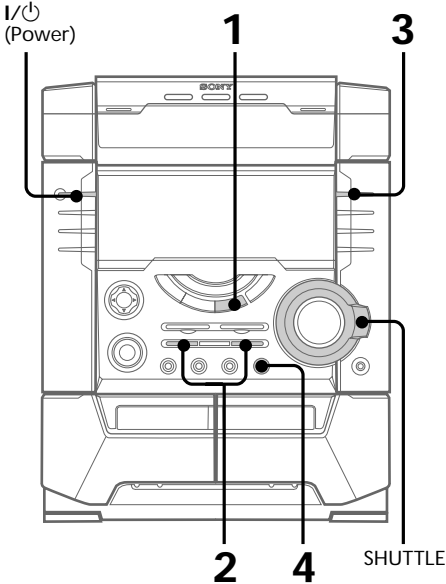
I/(¹)
(Power)

2   4   SHUTTLE

1 Press TUNER/BAND repeatedly until the band you want appears in the display.
Every time you press this button, the band changes as follows:
FM ←→ AM

2 Press and hold + or – (or TUNING +/– on the remote) until the frequency indication starts to change, then release.
Scanning stops when the system tunes in a station. "TUNED" and "STEREO" (for a stereo program) appear.
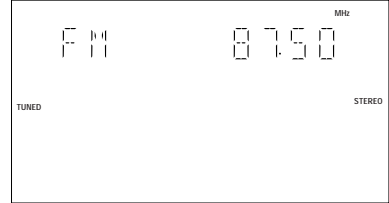
3 Press TUNER MEMORY.
A preset number appears in the display. The stations are stored from preset number 1.

Preset number
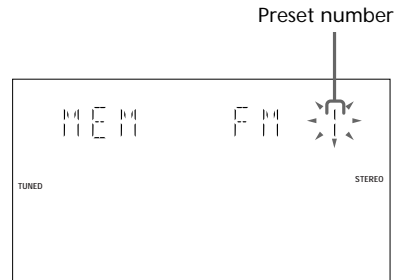
4 Press ENTER.
"COMPLETE" appears in the display. The station is stored.

5 Repeat steps 1 to 4 to store other stations.

To tune in a station with a weak signal

Press + or – (TUNING +/– on the remote) repeatedly to tune in the station manually.

To set another station to the existing preset number

Start over from step 1. After step 3, turn SHUTTLE until it clicks to select the preset number you want to store the other station.

You can add a new preset number after the last preset number.

To erase the preset station

1 Hold down TUNER MEMORY until a preset number appears in the display.

```
ERASE FM 1
```

2 Turn SHUTTLE until it clicks to select the preset number you want to erase.

Select "ALL ERASE" when you want to erase all the preset stations.
3 Press ENTER.

"COMPLETE" appears.

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

To change the AM tuning interval
(Except for the European and Middle Eastern models)

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 power. While holding down the ENTER button, turn the power back on. When you change the interval, AM preset stations will be erased. To reset the interval, repeat the same procedure.

Tip

The preset stations are retained for half a day even if you unplug the power cord or if a power failure occurs.

Saving the power in standby mode
(For European and North American models only)

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

I/(¹)
(Power)
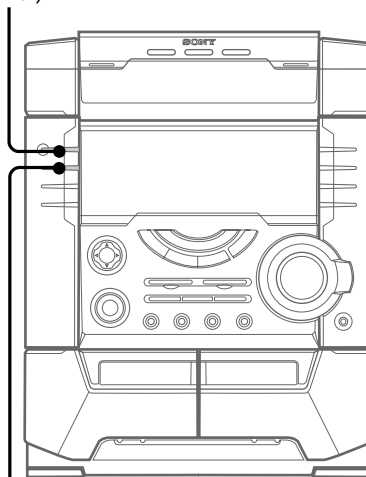
DISPLAY

➡ Press DISPLAY repeatedly when the power is off. Every time you press the button, the system switches as follows:

Demonstration → Clock
Power Saving Mode
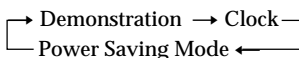
The system is turned on/off by pressing I/(¹).

Tips
• I/(¹) indicator and timer indicator (when the timer is set) light up even in the Power Saving Mode.
• The timer works in the Power Saving Mode.

Note
You cannot set the time in the Power Saving Mode.

To cancel the Power Saving Mode

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

9

Playing a CD

— Normal play

You can play up to three CDs in a row.

DISC SKIP
EX-CHANGE

I/⏻
(Power)

2 **1** PLAY
MODE

CD ■ ❚❚ ◄► SHUTTLE

I◄◄ ►►I VOLUME

◄►
❚❚
■
I◄◄►►I
◄◄►►
CD
VOL +/−
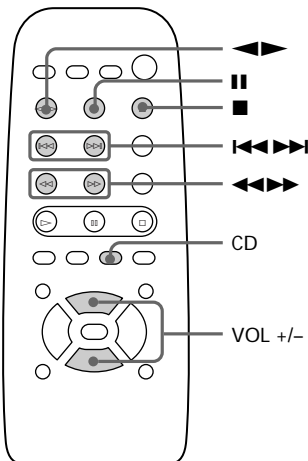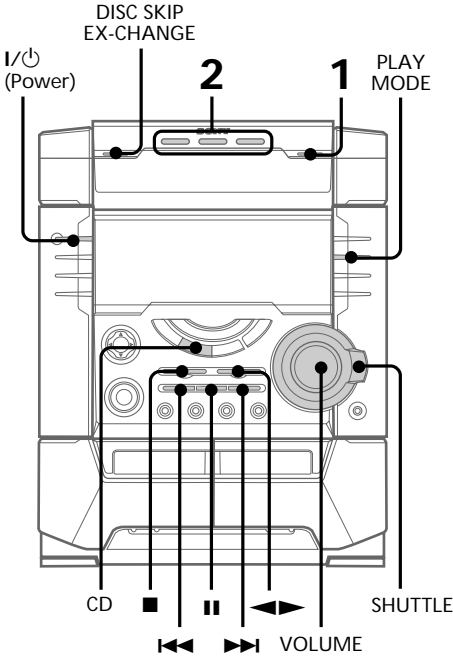
1 Press ⏏ OPEN/CLOSE and place a CD on the disc tray.

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

With the label side up. When you play a CD single, place it on the inner circle of the tray.
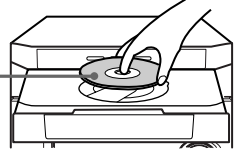
To insert additional discs, press DISC SKIP EX-CHANGE to rotate the disc tray.

2 Press one of the DISC 1~3 buttons.

The disc tray closes and play starts.

If you press ◄► when CD is selected as the function and the disc tray is closed, play starts from the CD loaded on the tray whose disc pointer indicator is lit.

Disc pointer
indicator   Track number   Playing time

Disc presence   Disc tray
indicator   number

10

To	Do this
Stop play	Press ■.
Pause	Press ❚❚. Press again to resume play.
Select a track	During play or pause, press ▶▶❙ (to go forward) or ❙◀◀ (to go back).
Find a point in a track	Turn SHUTTLE clockwise (to go forward) or counterclockwise (to go back) until it clicks and hold. Release it when you reach the desired point (or press and hold down ▶▶ or ◀◀ on the remote).
Select a CD in stop mode	Press a DISC 1~3 button or DISC SKIP EX-CHANGE (or D. SKIP on the remote).
Play only the CD you have selected	Press PLAY MODE repeatedly until "CONTINUE 1 DISC" or "SHUFFLE 1 DISC" appears.
Play all CDs	Press PLAY MODE repeatedly until "CONTINUE ALL DISCS" or "SHUFFLE ALL DISCS" appears.
Remove the CD	Press ▲ OPEN/CLOSE.
Exchange other CDs while playing	Press DISC SKIP EX-CHANGE.
Adjust the volume	Turn VOLUME (or press VOL +/– on the remote).

Tips
• You can switch from another source to the CD player and start playing a CD just by pressing the DISC 1~3 buttons (Automatic Source Selection).
• If there is no CD in the player, "CD NO DISC" appears in the display.
• When a disc tray holding a CD is selected (or the CD in the disc tray is playing) the disc pointer indicator lights. When a disc tray holding a CD is not selected, the disc presence indicator lights, but the disc pointer indicator does not light. When all disc trays are empty, both the disc presence indicator and disc pointer indicator light.

Note
When a tray has not been detected by the unit, the disc pointer indicator may light even though there is no disc on the tray.

Recording a CD

— CD Synchro Recording

The CD SYNC HI-DUB button lets you record from a CD to a tape easily. You can use TYPE I (normal) tape.

DOLBY NR

I/⏻ (Power) DISC SKIP EX-CHANGE **3** **5**

2 ■ **4** **6** **1**
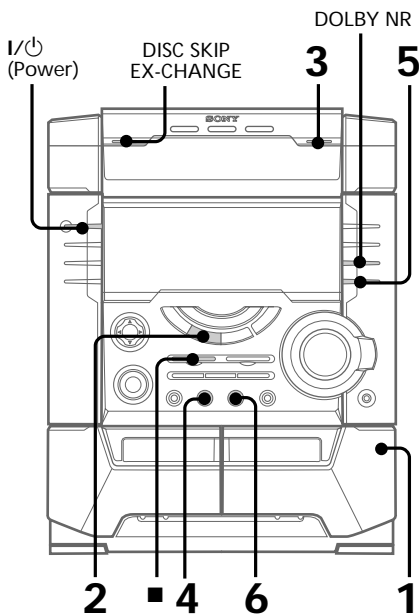
1 Press ▲ and insert a recordable tape into deck B.

With the side you want to record facing forward
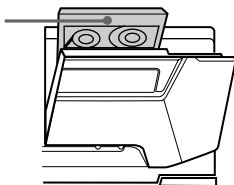
2 Press CD.

3 Press ▲ OPEN/CLOSE and place a CD.

Then, press ▲ OPEN/CLOSE again to close the disc tray.

When the CD you want to record is not selected, press DISC SKIP EX-CHANGE repeatedly to select the CD you want.

With the label side up. When you play a CD single, place it on the inner circle of the tray.
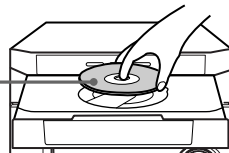
4 Press CD SYNC HI-DUB.

Deck B stands by for recording and the CD player stands by for playback. The REC PAUSE/START button flashes.

5 Press DIRECTION repeatedly to select ⇌ to record on one side. Select ⊂⊃ (or RELAY) to record on both sides.

6 Press REC PAUSE/START.

Recording starts.

To stop recording

Press ■.

Tips

• If you want to record from the reverse side, press TAPE A/B to select deck B after step 1. Press ◀► to start playback of the reverse side, then press ■ where you want to start recording. TAPE B reverse side indicator lights up (see page 16).

• 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.

• When you want to reduce the hiss noise in low-level high-frequency signals, press DOLBY NR so that "DOLBY NR" appears after pressing CD SYNC HI-DUB (MHC-BX9/DX9 only).

Note

You cannot listen to other sources while recording.

Listening to the radio

–– Preset Tuning

Preset radio stations in the tuner's memory first (see "Step 3: Presetting radio stations").
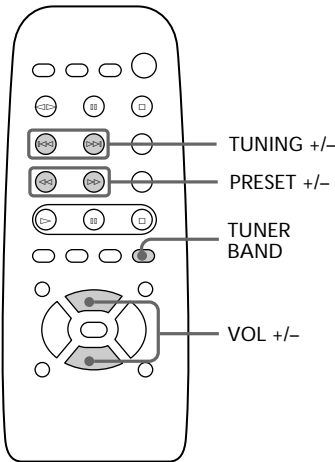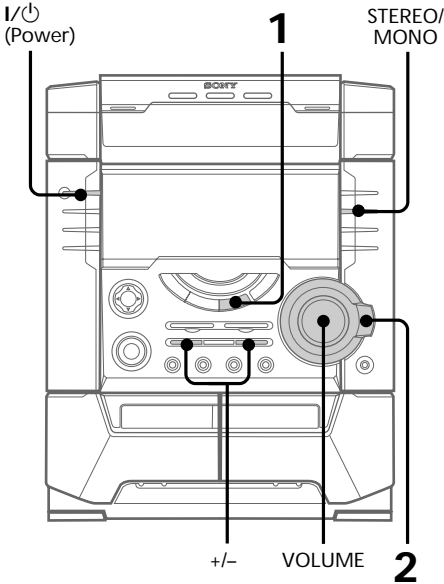
I/⏻ (Power)

STEREO/MONO

+/– VOLUME

2

1

TUNING +/–

PRESET +/–

TUNER BAND

VOL +/–

1 Press TUNER/BAND repeatedly until the band you want appears in the display.
Every time you press the button, the band changes as follows:
FM ←→ AM

2 Turn SHUTTLE until it clicks (or press PRESET +/– on the remote) to tune in the preset station you want.

Turn counter-clockwise (or press PRESET – on the remote) for lower preset numbers.

Turn clockwise (or press PRESET + on the remote) for higher preset numbers.

Preset number*   Frequency

FM 1   87.50 MHz

TUNED   STEREO
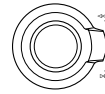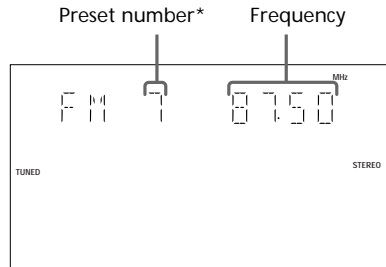
* When only one station is preset, "ONE PRESET" appears in the display.

To	Do this
Turn off the radio	Press I/⏻.
Adjust the volume	Turn VOLUME (or press VOL +/– on the remote).

Basic Operations

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To listen to non-preset radio stations

Use manual or automatic tuning in step 2. For manual tuning, press + or – (or TUNING +/– on the remote) repeatedly. For automatic tuning, press and hold + or – (or TUNING +/– on the remote).

Tips
• When an FM program is noisy, press STEREO/MONO so that "MONO" appears in the display. There will be no stereo effect, but the reception will improve. Press the button again to restore the stereo effect.
• To improve broadcast reception, reorient the supplied antennas.

Recording from the radio

You can record the radio program on a tape by calling up a preset station. You can use TYPE I (normal) tape.
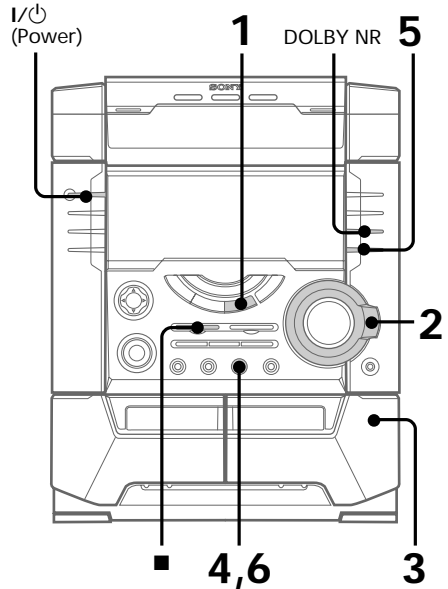
1 Press TUNER/BAND to select the band you want.

2 Turn SHUTTLE until it clicks (or press PRESET +/– on the remote) to tune in a preset station.

Turn counter-clockwise (or press PRESET – on the remote) for lower preset numbers.

Turn clockwise (or press PRESET + on the remote) for higher preset numbers.

Preset number   Frequency
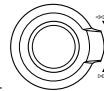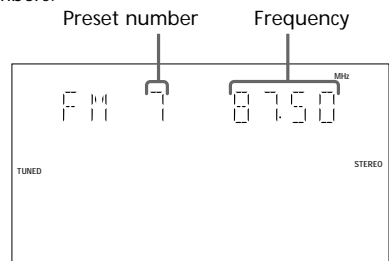
3 Press ▲ and insert a recordable tape into deck B.

With the side you want to record facing forward
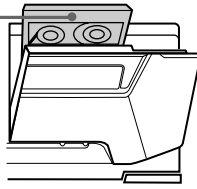
4 Press REC PAUSE/START.
Deck B stands by for recording.

5 Press DIRECTION repeatedly to select ⇌ to record on one side. Select ⊂⊃ (or RELAY) to record on both sides.

6 Press REC PAUSE/START.
Recording starts.

To stop recording
Press ■.

Tips
• If you want to record from the reverse side, press TAPE A/B to select deck B after step 1. Press ◀▶ to start playback of the reverse side, then press ■ where you want to start recording. TAPE B reverse side indicator lights up (see page 16).
• 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, use + and – (or TUNING +/– on the remote) in step 2 to tune in the desired station manually.
• When you want to reduce the hiss noise in low-level high-frequency signals, press DOLBY NR so that "DOLBY NR" appears after pressing REC PAUSE/START in step 4 (MHC-BX9/DX9 only).
• If noise is heard while recording from the radio, move the respective antenna to reduce the noise.

Playing a tape

You can use TYPE I (normal) tape. You can also use the ◀◀ /▶▶ (AMS* function) button to quickly search for songs you want to hear. To select either deck A or B, press TAPE A/B repeatedly.

* AMS (Automatic Music Sensor)
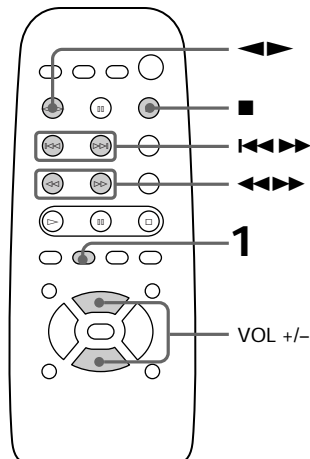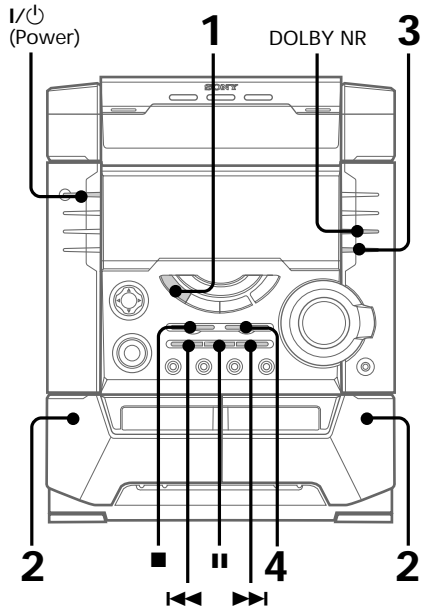
Playing a tape *(continued)*

1 Press TAPE A/B repeatedly to select deck A or B.

2 Press ▲ and insert a recorded tape in deck A or B.

With the side you want to play facing forward
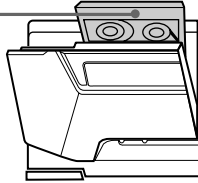
3 Press DIRECTION repeatedly to select ⇄ to play one side. Select ⊂⊃ to play both sides.

To play both decks in succession, select RELAY (relay play).*

4 Press ◀▶.

Press ◀▶ again to play the reverse side. The tape starts playing.

Forward indicator

```
TAPE  A
```

Reverse   Tape
indicator presence
indicator

---
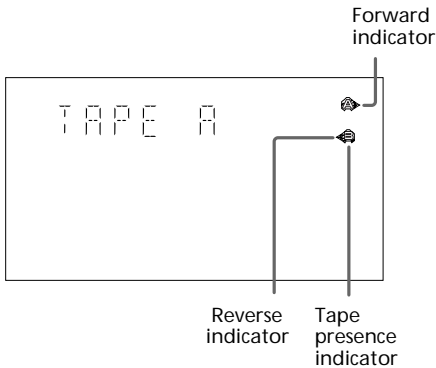
* Relay Play always follows the following sequence:

┌→ Deck A (front side) → Deck A (reverse side) ┐

└ Deck B (reverse side) ← Deck B (front side) ←┘

To	Do this
Stop play	Press ■.
Pause	Press ‖. Press again to resume play.
Fast-forward	Turn SHUTTLE clockwise until it clicks (or press ▶▶ on the remote) while playing the front side or counterclockwise until it clicks (or press ◀◀ on the remote) while playing the reverse side.
Rewind	Turn SHUTTLE counterclockwise until it clicks (or press ◀◀ on the remote) while playing the front side or clockwise until it clicks (or press ▶▶ on the remote) while playing the reverse side.
Remove the cassette	Press ▲.
Adjust the volume	Turn VOLUME (or press VOL +/– on the remote).

Tips
- The deck stops automatically after repeating the sequence five times.
- When you want to reduce the hiss noise in low-level high-frequency signals, press DOLBY NR so that "DOLBY NR" appears (MHC-BX9/DX9 only).
- When no tapes are inserted, all indicators light. When a tape (tapes) is (are) inserted, corresponding presence and forward/reverse indicators light.

Searching for the beginning of a track (AMS*)

During playback, press ◀◀ or ▶▶ repeatedly for the number of songs you want to skip forward (or backward).

The search direction, + (forward) or – (back), and number of songs being skipped (1~9) appear in the display.

Example: searching forward 2 songs
```
TAPE  A>>+2
```

* AMS (Automatic Music Sensor)

Note

The AMS function may not operate correctly under the following circumstances:
- When the unrecorded space between songs is less than 4 seconds long.
- If completely different information is recorded on the left and right channels.
- When there are continuous sections of extremely low level or low frequency sound (like those of a baritone sax).
- When the unit is placed near a television. (In this case, we recommend moving the unit farther away from the television or turning off the television.)

Recording from a tape

— High-speed Dubbing

You can use TYPE I (normal) tape.
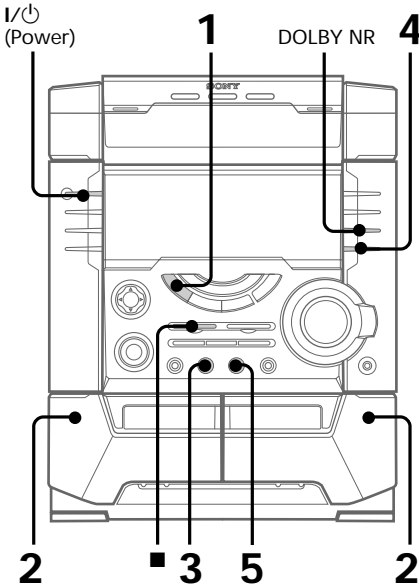
1 Press TAPE A/B.

2 Press ▲ and insert a recorded tape in deck A and a recordable tape in deck B.

With the side you want to play/record facing forward

3 Press CD SYNC HI-DUB.
Deck B stands by for recording.

4 Press DIRECTION repeatedly to select ⇌ to record on one side. Select ⊂⊃ (or RELAY) to record on both sides.

5 Press REC PAUSE/START.
Dubbing starts.

To stop dubbing
Press ■.

Tips
• When you dub on both sides, start recording from the front side. If you record from the reverse side, recording stops at the end of the reverse side.
• If you set DIRECTION to ⊂⊃ when the tapes you use have different lengths, the tape in each deck reverses independently. If you select RELAY, the tapes in both decks reverse together.
• You don't have to set DOLBY NR, since the tape in deck B is automatically recorded in the same state as the tape in deck A (MHC-BX9/DX9 only).

Using the CD display

You can check the remaining time of the current track or that of the CD.

When a CD TEXT disc is loaded, you can check the information stored on the disc, such as the titles or artist names. When the unit detects CD TEXT discs, the "CD-TEXT" indication appears in the display.

I/⏻
(Power)
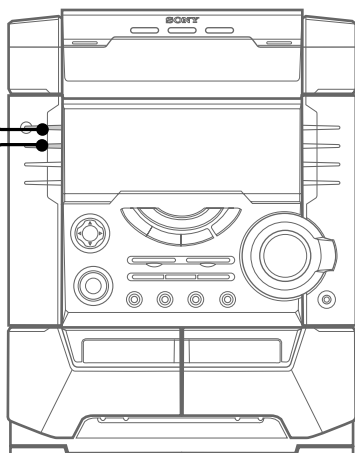
DISPLAY

➔ Press DISPLAY.

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

During normal playback

→ Playing time on the current track
↓
Remaining time on the current track
↓
Remaining time on current CD (1 DISC mode) or "--.-- " display (ALL DISCS mode)
↓
Title name of the current track*
↓
Clock display (for eight seconds)
↓
└ Effect status
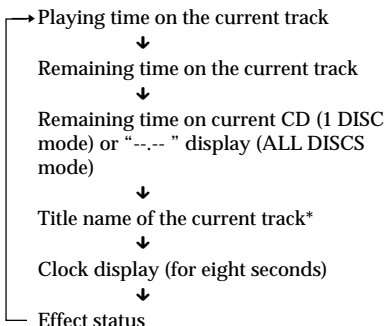
In the stop mode

In the program mode and when there is a program

→ The last track number of the program and the total playing time
↓
Total number of programmed track (for eight seconds)
↓
Title name and the artist name of the CD*
↓
Clock display (for eight seconds)
↓
└ Effect status

In other conditions
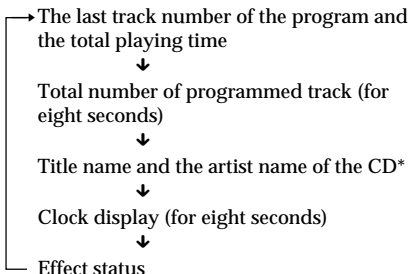
→ Total number of tracks and total playing time
↓
Title name and the artist name of the CD*
↓
Clock display (for eight seconds)
↓
└ Effect status
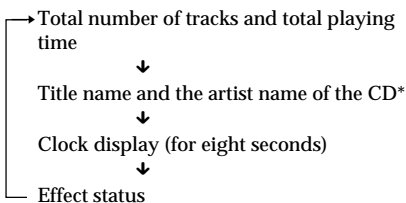
* With CD TEXT discs only (certain characters cannot be displayed). Depending on the disc, some CD TEXT information may not appear.

18

Playing the CD tracks repeatedly

–– Repeat Play

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

I/⏻
(Power)
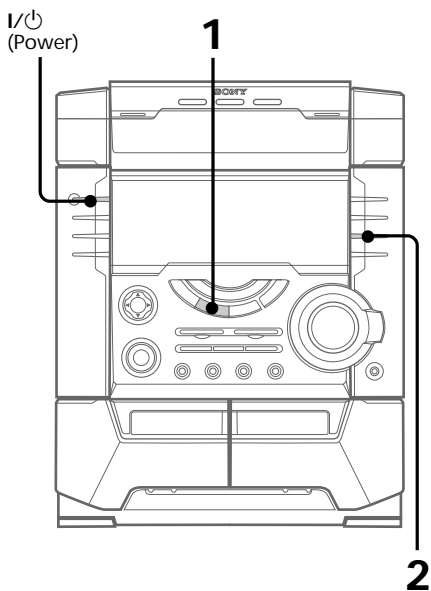
1 Press CD, then place a CD.

2 Press REPEAT during playback until "REPEAT" appears in the display.

"REPEAT ALL" scrolls in the display and Repeat Play starts. Do the following procedure to change the repeat mode.

To repeat	Press
All the tracks on the current CD up to 5 times	PLAY MODE repeatedly until "CONTINUE 1 DISC" or "SHUFFLE 1 DISC" appears in the display.
All the tracks on all CDs up to 5 times	PLAY MODE repeatedly until "CONTINUE ALL DISCS" appears in the display.
Only one track	REPEAT repeatedly until "REPEAT 1" appears in the display while playing the track you want to repeat.

To cancel Repeat Play

Press REPEAT until "REPEAT OFF" scrolls and "REPEAT" or "REPEAT 1" disappears from the display.

Notes

• REPEAT (ALL) mode is canceled if you press PLAY MODE repeatedly until "SHUFFLE ALL DISCS" appears.
• During Program Play, the program is also repeated up to 5 times.

19

Playing the CD tracks in random order

–– Shuffle Play

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

I/⏻ (Power)   DISC 1~3

2

1

3

►►I
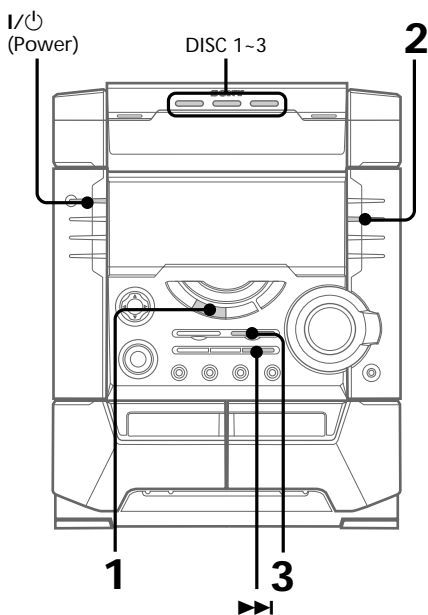
1 Press CD, then place a CD.

2 Press PLAY MODE repeatedly until "SHUFFLE 1 DISC" or "SHUFFLE ALL DISCS" appears in the display.
"ALL DISCS" shuffles all the CDs in the player. "1 DISC" shuffles the CD whose DISC indicator is lit green.

3 Press ◄►.
All the tracks play in random order.

To cancel Shuffle Play
Press PLAY MODE repeatedly until "SHUFFLE" or "PGM" disappears from the display. The tracks continue playing in their original order.

To select a desired CD
Press DISC 1~3.

Tips
• You can start Shuffle Play during normal play by pressing PLAY MODE repeatedly to select "SHUFFLE".
• To skip a track, press ►►I.

Programming the CD tracks

–– Program Play

You can make a program of up to 32 tracks from all the CDs in the order you want them to be played.
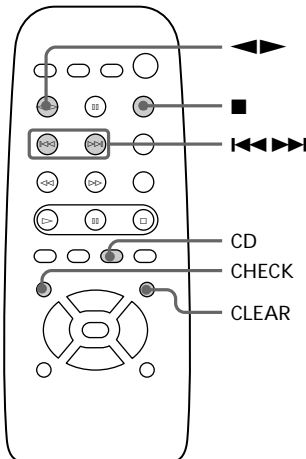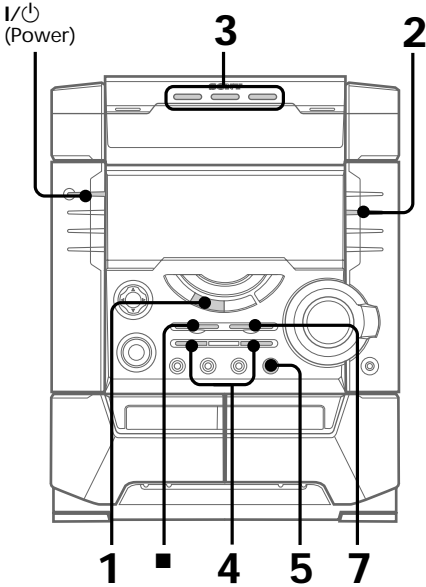
I/⏻
(Power)

1 ■ **4** **5** **7**

1 Press CD, then place a CD.

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

3 Press one of the DISC 1~3 buttons to select a CD.

To program all the tracks on a CD at once, proceed to step 5 while "AL" appears on the display.

4 Press ⏮ or ⏭ repeatedly until the track you want appears in the display.

Disc tray   Total playing time
number   (including selected track)
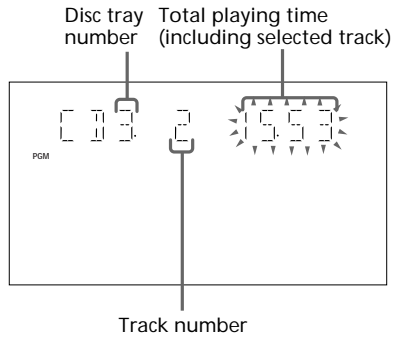
Track number

5 Press ENTER.

The track(s) is (are) programmed. The program step number appears, followed by the total playing time.

6 To program additional tracks, repeat steps 3 to 5.

Skip step 3 to select tracks from the same disc.

7 Press ◀▶.

All the tracks play in the order you selected.

21

Programming the CD tracks (continued)

To cancel Program Play

Press PLAY MODE repeatedly until "PGM" or "SHUFFLE" disappears from the display.

To	Press
Check the program	CHECK on the remote repeatedly. After the last track, "CHECK END" appears.
Clear a track from the end	CLEAR on the remote in stop mode.
Clear a specific track in stop mode	CHECK on the remote repeatedly until the number of the track to be erased lights up, then press CLEAR.
Add a track to the program in stop mode	1 Select the disc tray with a DISC 1~3 button. 2 Select the track by pressing ◄◄ or ►►I. 3 Press ENTER.
Clear the entire program	■ once in stop mode or twice while playing.

Tips

• The program you made remains in the CD player even after it has been played back. Press ◄► to play the same program again.
• If "--.--" appears instead of the total playing time during programming, this means:
  – you have programmed a track number which exceeds 20.
  – the total playing time has exceeded 100 minutes.

22

Recording on a tape manually

You can record from CD, tape, or radio as you like. For example, you can record just the songs you want or record from the middle of the tape.
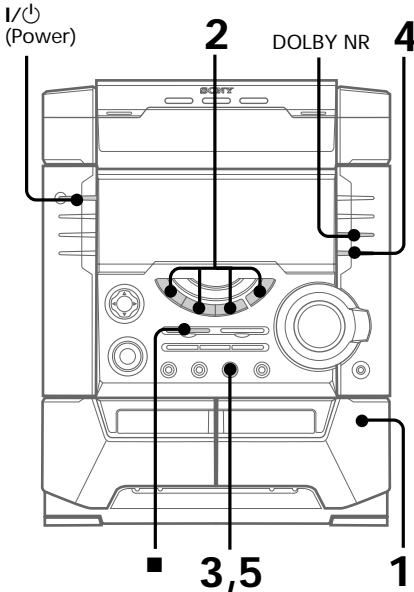
1 Insert a recordable tape into deck B.

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

When you want to record from TAPE A, press TAPE A/B repeatedly until TAPE A is selected.

3 Press REC PAUSE/START.

Deck B stands by for recording. The REC PAUSE/START button flashes.

4 Press DIRECTION repeatedly to select ⇌ to record on one side. Select ⊃⊂ (or RELAY) to record on both sides.

5 Press REC PAUSE/START.

Recording starts.

6 Press ◄► to start playing the source to be recorded.

To	Press
Stop recording	■.
Pause recording	REC PAUSE/START.

Tips
• If you want to record from the reverse side, press TAPE A/B to select deck B after step 1. Press ◄► to start playback of the reverse side, then press ■ where you want to start recording. TAPE B reverse side indicator lights up (see page 16).
• When you want to reduce the hiss noise in low-level high-frequency signals, press DOLBY NR so that "DOLBY NR" appears after pressing REC PAUSE/START in step 3 (MHC-BX9/DX9 only).
• When recording from a CD, you can press I◄◄ or ►►I to select tracks during recording pause mode (after pressing REC PAUSE/START in step 3 and before pressing REC PAUSE/START in step 5).

Recording a CD by specifying track order

— Program Edit

You can record tracks from all the CDs in the order you want. When programming, make sure the playing times for each side do not exceed the length of one side of the tape.
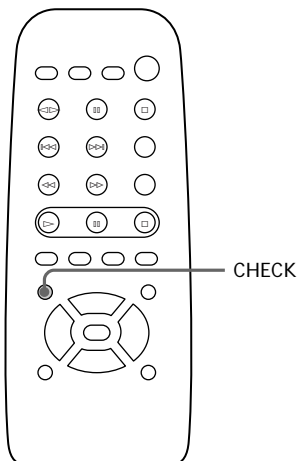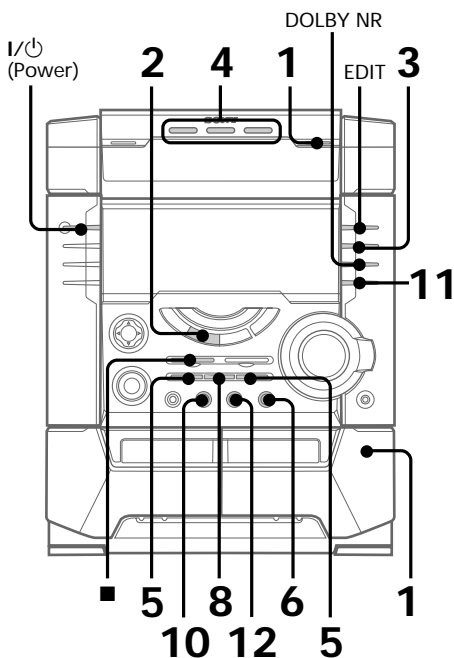
1 Place a CD and insert a recordable tape into deck B

2 Press CD.

3 Press PLAY MODE repeatedly until "PROGRAM" scrolls and "PGM" appears in the display.

4 Press one of the DISC 1~3 buttons to select a CD.
To program all the tracks on a CD at once, proceed to step 6 while "AL" appears in the display.

5 Press ◄◄ or ►► until the track you want appears in the display.

Disc tray number   Total playing time (including selected track)
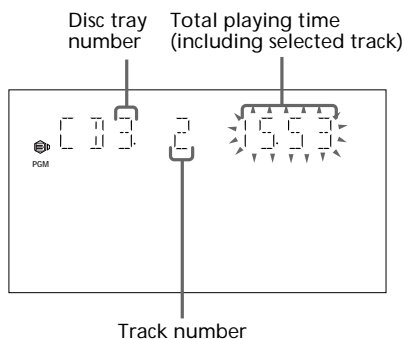
Track number

6 Press ENTER.
The track(s) is(are) programmed. The program step number appears, followed by the total playing time.

7 To program additional tracks to be recorded on side A, repeat steps 4 to 6.
Skip step 4 to select tracks from the same disc.

8 Press ❚❚ to insert a pause at the end of side A.
"P" appears in the display and the total playing time resets to "0.00" in the display.

24

9 Repeat steps 5 and 6 for tracks from the same disc or steps 4 to 6 for tracks from another disc to program the remaining tracks to be recorded on side B.

10 Press CD SYNC HI-DUB.
Deck B stands by for recording and the CD player stands by for playback. REC PAUSE/START button blinks.

11 Press DIRECTION repeatedly to select ⇄ to record on one side. Select ⊂⇄⊃ (or RELAY) to record on both sides.

12 Press REC PAUSE/START.
Recording starts.

To stop recording
Press ■.

To check the order
Press CHECK on the remote repeatedly. After the last track, "CHECK END" appears.

To cancel Program Edit
Press PLAY MODE repeatedly until "PGM" or "SHUFFLE" disappears from the display.

Tip
When you want to reduce the hiss noise in low-level high-frequency signals, press DOLBY NR so that "DOLBY NR" appears after pressing CD SYNC HI DUB (MHC-BX9/DX9 only).

Selecting tape length automatically

—Tape Select Edit

You can check the most suitable tape length for recording a CD. Do the following steps before recording.

1 Place a CD.

2 Press CD.

3 Press EDIT once, so that "EDIT" flashes.
The required tape length for the currently selected CD appears, followed by the total playing time for side A and side B respectively.

Note
You cannot use Tape Select Edit for discs containing over 20 tracks.

Looping part of a CD

— Loop

With the loop function, you can repeat part of a CD during playback. This lets you create original recordings.
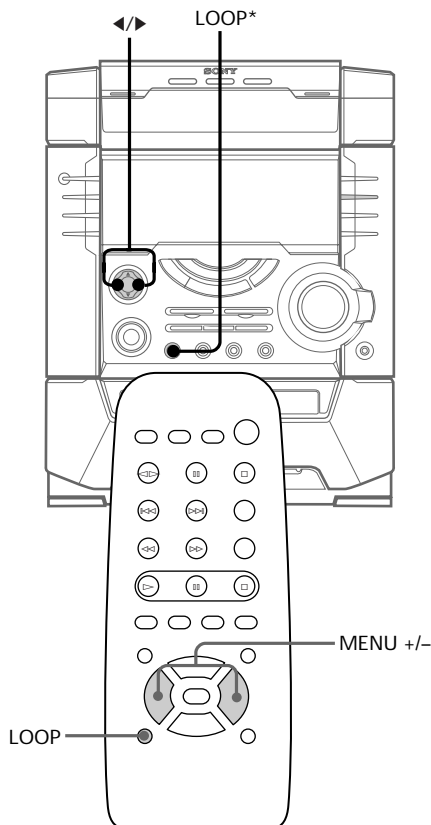
➜ **Press and hold LOOP during playback at the point you want to start the Loop function, and release to resume normal play.**

To adjust the loop length

Press MENU +/– while holding LOOP on the remote (or press ◀/▶ while holding LOOP*) to select different LOOP lengths (LOOP 1~20).

* For European and North American models only.

Flashing part of a CD

— Flash

With the flash function, you can "flash" the CD sound during playback. This lets you create original recordings.
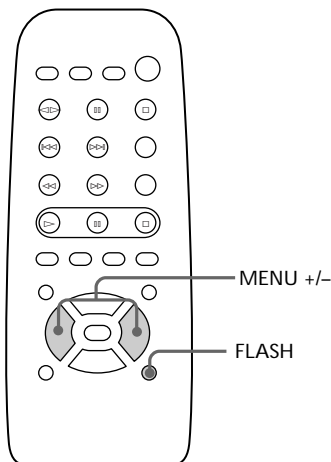
➜ **Press and hold FLASH during playback at the point you want to start the Flash function, and release to resume normal play.**

To adjust the flash length

Press MENU +/– while holding FLASH to select different flash lengths (FLASH 1~20).

To use LOOP and FLASH together

Press and hold both LOOP and FLASH at the same time.

Notes

• The loop and flash length cannot be adjusted during this operation. Adjust the loop and flash lengths independently beforehand if necessary.
• To record the loop or flash effect, use the tape deck on this unit.

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Adjusting the sound

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

To reinforce lower bass sound (V-GROOVE)

Press V-GROOVE. "V-GROOVE ON" appears in the display.

The lower bass frequency of the music you are listening to is powerfully reinforced, the equalizer curves changes, loudness increased and the "V-GROOVE" button lights up.

Press V-GROOVE again to return to the previous level.

For a powerful sound (GROOVE)

Press GROOVE. "GROOVE ON" appears in the display.

The volume switches to power mode, the equalizer curve changes, and the "GROOVE" indicator lights up.

Press GROOVE again to return to the previous volume.

Note

The V-GROOVE function will be automatically cancelled, when you select GROOVE.

To listen through the headphones

Connect the headphones to the PHONES jack. No sound will come from the speakers.

Selecting the audio emphasis

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

Selecting the effect from music menu

I/↺ (Power)   ◀/▶   Function indicator

▲/▼
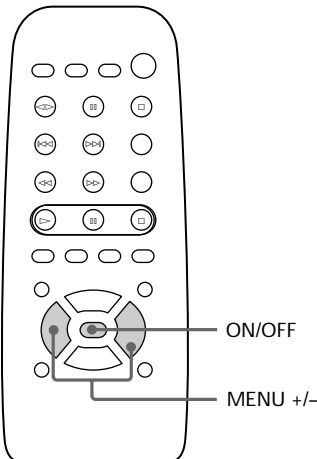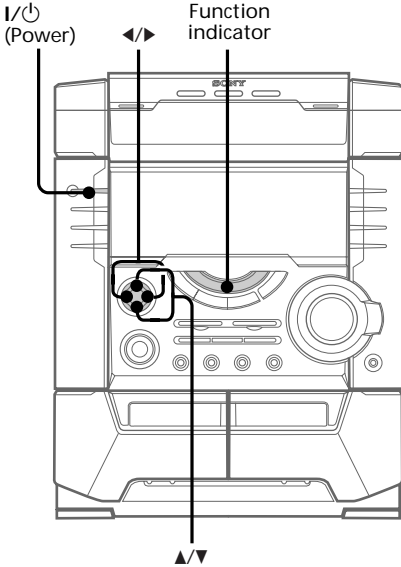
ON/OFF

MENU +/−

➜ Press ◀/▶ (or MENU +/− on the remote) to select the preset you want.
The preset name appears in the display.
See the chart "Music menu options".

To select USER FILE
Press ▲.

To cancel the effect
Press ▼ (or ON/OFF on the remote) repeatedly so that "EFFECT OFF" appears in the display.

Music menu options
"**SURROUND**" appears if you select an effect with surround effects.

Effect	For
ROCK POP JAZZ DANCE SOUL ORIENTAL	Standard music sources
ACTION DRAMA SF GAME	Soundtracks and special listening situations
USER FILE	(see page 30)

Note
During EFFECT OFF or SPECTRUM OFF mode, the function indicator will automatically turn off.

Tip
Place your finger in the concave and move in the direction you want (▲/▼/◀/▶) as shown below.
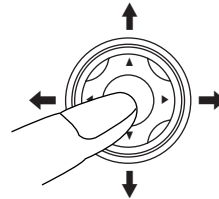
Changing the spectrum analyzer display

You can enjoy changing the display while listening to the music.

I/⏻
(Power)

Function indicator
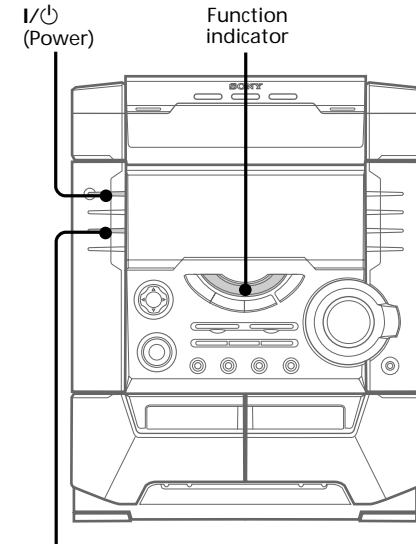
SPECTRUM

➡ Press SPECTRUM.

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

→ SPECTRUM 1
↓
SPECTRUM 2
↓
SPECTRUM 3
↓
IMAGE PATTERN
↓
SPECTRUM OFF*
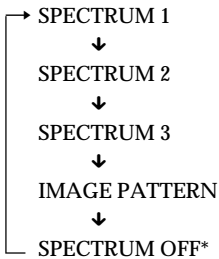
* The display slightly dims.

Note
During EFFECT OFF or SPECTRUM OFF mode, the function indicator will automatically turn off.

Selecting the surround effect

You can enjoy the surround effect.

I/⏻
(Power)
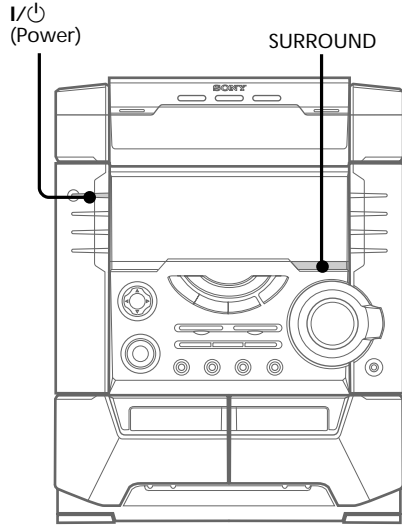
SURROUND

➡ Press SURROUND.

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

SURROUND ON (**SURROUND**)
↕
SURROUND OFF
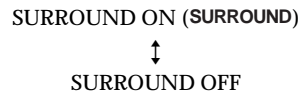
Note
When you choose other sound effects, the surround effect will be canceled.

29

Adjusting the graphic equalizer

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

Before operation, first select the audio emphasis you want for your basic sound.

I/⏻
(Power)   ◄/►

1   ▲/▼   **3**

1 Press EQ EDIT.

2 Press ◄/► to select the frequencies, then press ▲/▼ to adjust the level.

Frequency band   Frequency level
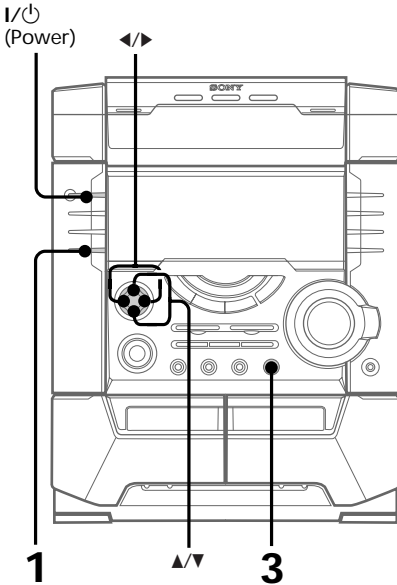
3 Press ENTER.

This setting is automatically stored as USER FILE.

Tip

If you want to select the previously adjusted equalizer settings (USER FILE), press ▲ (when using the remote, press MENU +/− repeatedly until USER FILE is selected).
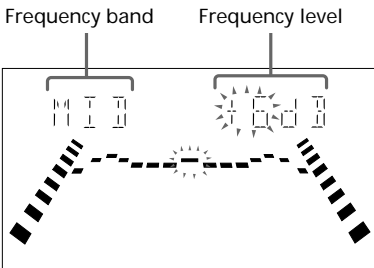
Using the Radio Data System (RDS)

(For European model only)

What is the Radio Data System?

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

Note

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

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

Receiving RDS broadcasts

➡ Simply select a station from the FM band. When you tune in a station that provides RDS services, the station name appears in the display.

To check the RDS information

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

```
   ┌─→ Station name*
   │        ↓
   │     Frequency
   │        ↓
   │     Program type*
   │        ↓
   │     Clock display
   │        ↓
   └──  Effect status
```
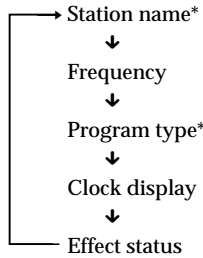
* If the RDS broadcast is not received, the station name and program type may not appear in the display.

Locating a station by program type (PTY)

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

I/⏻
(Power)

1

3,5   2,4

31
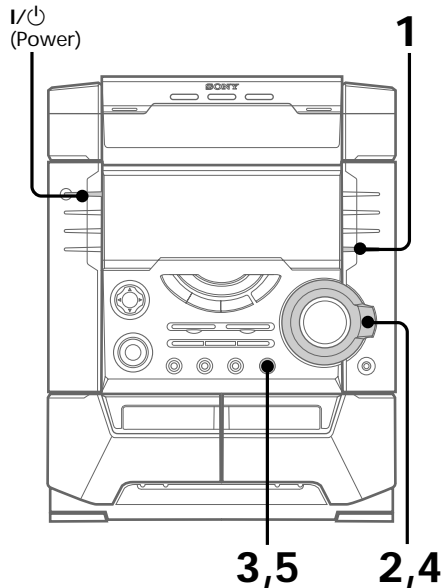
Using the Radio Data System (RDS) (continued)

1 Press PTY while listening to the radio.

2 Turn SHUTTLE until it clicks to select the program type you want. See the "List of program types" section below.

3 Press ENTER.
The unit starts searching the preset RDS stations ("SEARCH" and the selected program type are shown alternately in the display).
When the tuner receives a program, the preset station number flashes.

4 Turn SHUTTLE until it clicks to continue search for the station number you want.

5 Press ENTER while the preset station number you want is flashing.

To cancel PTY search
Press PTY again.

List of program types (PTY)

NEWS
News programs

AFFAIRS
Topical programs that expand on current news

INFO
Programs about consumer affairs, medical advice, etc.

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

POP M
Popular music programs

ROCK M
Rock music programs

EASY M
Easy listening (middle of the road music)

LIGHT M
Classical music, such as instrumental, vocal, and choral works

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

OTHER M
Music, such as jazz, rhythm and blues, and reggae

WEATHER
Weather information

FINANCE
Stock market reports and tradings, etc.

CHILDREN
Program for children

SOCIAL
Programs about people and the things that affect them

RELIGION
Programs of religious contents

PHONE IN
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 by TP/TA

LEISURE

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

JAZZ

> Jazz programs

COUNTRY

> Country music programs

NATION M

> Programs featuring the popular music of the country or region

OLDIES

> Programs featuring oldies music

FOLK M

> Folk music programs

DOCUMENT

> Investigative features

TEST

> Test signal for emergency broadcasts

ALARM

> Emergency broadcasts

NONE

> Any programming not defined above

Note

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

Singing along: Karaoke

(Except European and North American model)

You can sing along with any stereo CD or tape by turning down the singer's voice. You need to connect an optional microphone.

I/⏻
(Power)

1,5   2   3
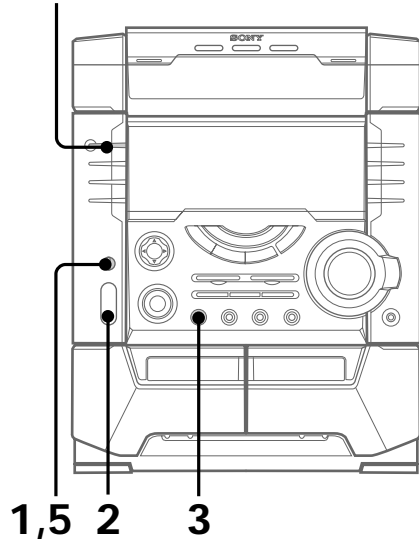
1   Turn MIC LEVEL to MIN to turn down the microphone control level.

2   Connect an optional microphone to MIC.

3   Press KARAOKE PON.

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

KARAOKE PON

↕

Effect status before entering
KARAOKE PON mode*

* KARAOKE PON is cancelled.

The 🎤 indicator appears in the display when a karaoke mode is activated.

To sing karaoke with decreasing the vocal level of a CD, select "KARAOKE PON".

33

4 Start playing the music and adjust the volume.

5 Adjust the microphone volume by turning MIC LEVEL.

When you are done

Turn MIC LEVEL to MIN and disconnect the microphone from MIC, then press KARAOKE PON again so that "🎤" disappears.

Notes

• With some songs, vocals may not be canceled when you select "KARAOKE PON".
• During KARAOKE PON, equalizer and surround settings cannot be changed.
• If you press ◄/►/▲/▼ (or ON/OFF or MENU +/–on the remote) or recall a sound effect, the karaoke mode is canceled.

Mixing and recording sounds

I/⏻ (Power)

2 6 4

■ **3,5** **1**
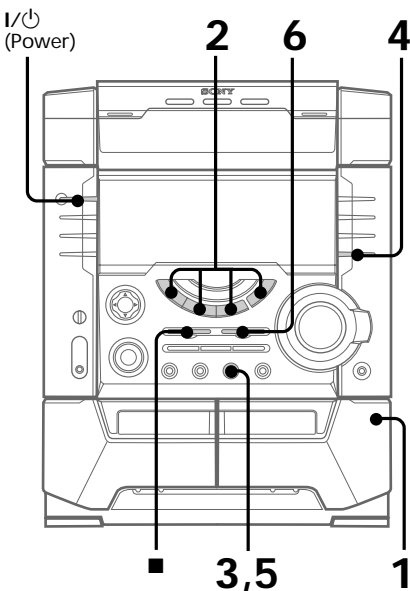
1 Do the procedures for singing along (steps 1 to 5 on page 33 and 34). Then, insert a recordable tape in deck B.

2 Press one of the function buttons you want to record from (e.g., CD). When you want to record from TAPE A, press TAPE A/B repeatedly until TAPE A is selected.

3 Press REC PAUSE/START. Deck B stands by for recording. The REC PAUSE/START button blinks.

4 Press DIRECTION repeatedly to select ⇌ to record on one side. Select ⇄ (or RELAY) to record on both sides.

5 Press REC PAUSE/START. Recording starts.

6 Press ◄► to start playing the source to be recorded. Start singing along with the music.

To stop recording

Press ■.

Tips

• If acoustic feedback (howling) occurs, move the microphone away from the speakers or change the direction of the microphone.
• If you want to record your voice through the microphone only, you can do so by selecting the CD function and not playing a CD.
• When high level sound signals are input, the unit automatically adjusts the recording level to prevent distortion of the recorded sound signal (Auto Level Control Function).

Notes

• The instrumental sound may be reduced as well as the singer's voice when the sound is recorded in monaural.
• The singer's voice may not be reduced when:
    —only a few instruments are playing.
    —a duet is being played.
    —the source has strong echoes or chorus.
    —the singer's voice deviates from the center.
    —the voice on the source is singing in high soprano or tenor.

Falling asleep to music

— Sleep Timer

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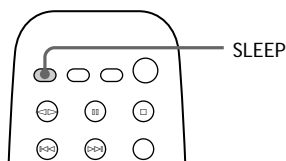
SLEEP

➡ Press SLEEP.

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

AUTO → 90 → 80 → 70
→ ⋯ → 10 → OFF → AUTO ⋯

When you choose "SLEEP AUTO"

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

To check the remaining time

Press SLEEP once.

To change the time to turn off

Select the time you want by pressing SLEEP.

To cancel the Sleep Timer function

Press SLEEP repeatedly until "SLEEP OFF" appears.

Waking up to music

— Daily Timer

You can wake up to music at a preset time every day. Make sure you have set the clock (see "Step 2: Setting the time" on page 7).

3

CLOCK/
TIMER
SELECT

9

4,5,7

4,5,8

2
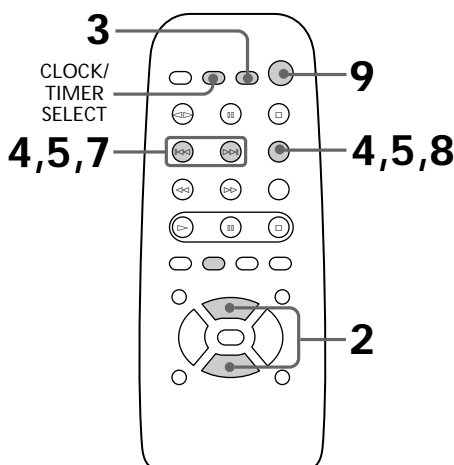
1 Prepare the music source you want to play.
   • CD: Insert a CD. To start from a specific track, make a program (see "Programming the CD tracks" on page 21).
   • Tape: Insert a tape with the side you want to play facing forward.
   • Radio: Tune in the preset station you want (see "Step 3: Presetting radio stations" on page 8).

2 Adjust the volume.

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

Waking up to music (continued)

4 Press |◀◀ or ▶▶| repeatedly to
select "DAILY 1 (or 2)", then press
ENTER.

"ON" appears and the hour digits flash
in the display.

```
ON      0:00
                    ⏰
```
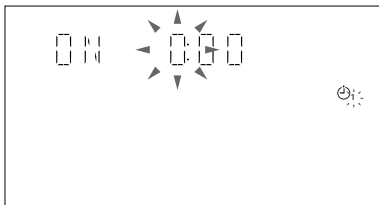
5 Set the time to start playback.

Press |◀◀ or ▶▶| repeatedly to set the
hour, then press ENTER.

The minute indication starts flashing.

```
ON    10:00
                    ⏰
```
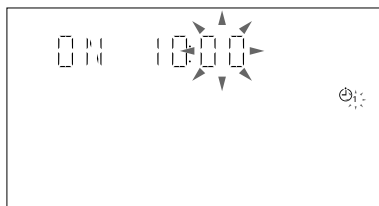
Press |◀◀ or ▶▶| repeatedly on the
remote to set the minute, then press
ENTER.

The hour indication flashes again.

6 Set the time to stop playback
following the above procedure.

7 Press |◀◀ or ▶▶| repeatedly until
the music source you want appears.

The indications change as follows:

```
    ┌──→ TUNER ←→ CD PLAY ←─┐
    └──────→ TAPE PLAY ←─────┘
```
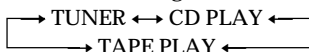
8 Press ENTER.

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

9 Turn off the power.

To check the setting

Press CLOCK/TIMER SELECT and press
|◀◀ or ▶▶| repeatedly to select the
respective mode (DAILY 1 or DAILY 2), then
press ENTER on the remote.

To change the setting, start over from step 1.

To cancel the timer operation

Press CLOCK/TIMER SELECT and press
|◀◀ or ▶▶| repeatedly to select "TIMER
OFF", then press ENTER.

Notes
• You cannot activate DAILY 1 and DAILY 2 timer
  at the same time.
• You cannot set timer if the timer on and off times
  are the same.
• When you use the Sleep Timer, Daily Timer and
  Timer recording will not turn on the system until
  the Sleep Timer turns it off.
• You cannot activate Daily Timer and Timer
  recording at the same time.

Tip
The power turns on 15 seconds before the preset
time.

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Timer-recording radio programs

To timer-record, you must preset the radio station (see "Step 3: Presetting radio stations" on page 8) and set the clock (see "Step 2: Setting the time" on page 7) beforehand.
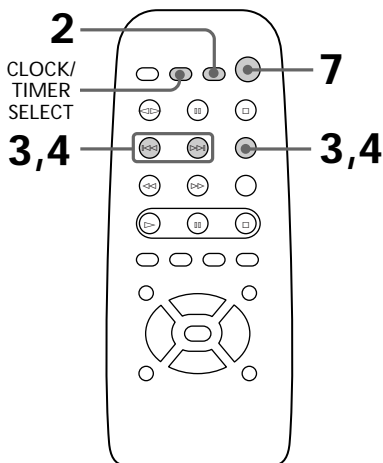
1 Tune in the preset radio station (see "Listening to the radio").

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

3 Press I◄◄ or ►►I repeatedly to select "REC", then press ENTER.
"ON" appears and the hour indication flash in the display.
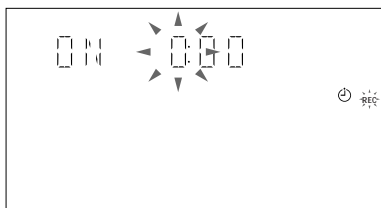
4 Set the time to start recording.
Press I◄◄ or ►►I repeatedly to set the hour, then press ENTER.
The minute indication starts flashing.
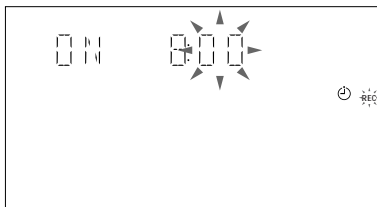
Press I◄◄ or ►►I repeatedly to set the minute, then press ENTER.
The hour indication flashes again.

5 Set the time to stop recording following the above procedure.
The start time appears, followed by the stop time, the preset radio station to be recorded (e.g., "TUNER FM 5"), then the original display appears.

6 Insert a recordable tape into deck B.

7 Turn off the power.
When the recording starts, the volume level is set to the minimum.

To check the setting
Press CLOCK/TIMER SELECT and press I◄◄ or ►►I repeatedly to select "REC", then press ENTER.
To change the setting, start over from step 1.

To cancel the timer operation
Press CLOCK/TIMER SELECT and press I◄◄ or ►►I repeatedly to select "TIMER OFF", then press ENTER.

Notes
• If the power is on at the preset time, the recording will not be made.
• You cannot set the timer if the timer on and off times are the same.
• You cannot activate the Timer-recording and Daily Timer at the same time.
• When you used the Sleep Timer, Daily Timer and Timer recording will not turn on the system until the Sleep Timer turns it off.

Connecting audio components

Select one of the following two connections, depending on the equipment to be connected and method of connecting. Refer to the instructions of each component below.

Connecting an MD deck for digital recording

You can record from CD into the MD deck digitally by connecting an optical cable.

To the DIGITAL IN jack of the MD deck
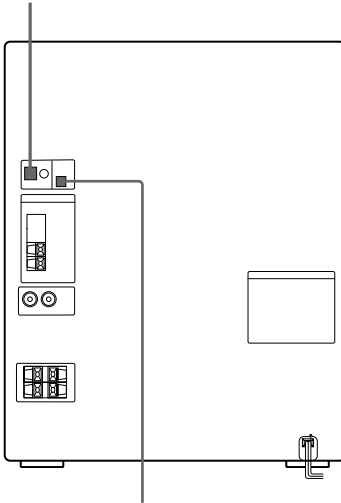
Optical Cover Holder

Tip
Keep the optical cover at the optical cover holder provided.

Connecting an MD deck for listening to music

Make sure to match the color of the plugs and the connectors. To listen to the sound of the connected MD deck, press MD (VIDEO).
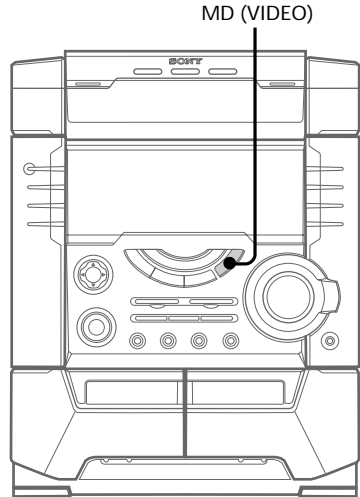
MD (VIDEO)

To the audio output of the MD deck
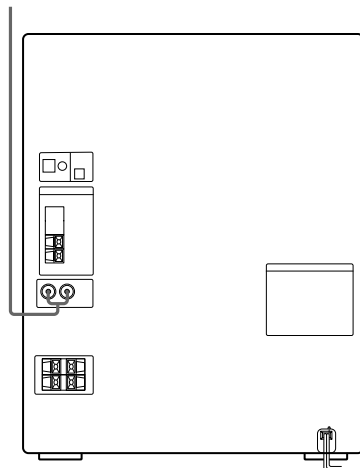
Tip

When you connect a Sony MD deck, you can use the MD ►, ‖, and ■ buttons on this unit's remote to perform play, pause, and stop operations.

Note

If you cannot select "MD" even when you have pressed MD (VIDEO), press I/ᵁ while pressing MD (VIDEO) when the power is turned off. "VIDEO" will be switched to "MD". To return to "VIDEO" do the same procedure. However, you cannot switch from MD to VIDEO or from VIDEO to MD when the system is in the Power Saving Mode (see page 9).

Connecting a VCR

Make sure to match the color of the plugs and the connectors. To listen to the sound of the connected VCR, hold down MD (VIDEO) and press I/ᵁ when the power is turned off. This switches the "MD" function to "VIDEO". Once you enable the "VIDEO" function, just press MD (VIDEO).

By connecting the audio output jacks of your VCR to the MD/VIDEO (AUDIO) jacks using an optional audio cable, you can enjoy video playback in powerful stereo sound.

To the audio output of the VCR
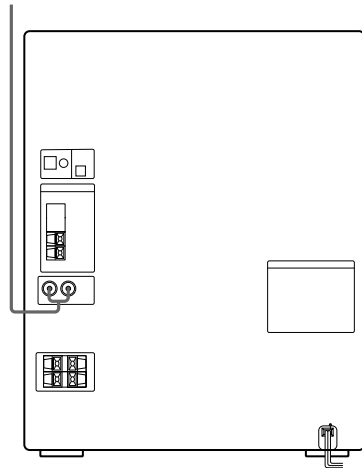
Note
- You cannot switch from MD to VIDEO or from VIDEO to MD when the system is in the Power Saving Mode (see page 9).
- If the sound is distorted or too loud when selecting "VIDEO", or you want to switch back to "MD", repeat the operation described above for switching to "MD".

Connecting external antennas

Connect the external antenna to improve the reception.

FM antenna

Connect the optional FM external antenna. You can also use the TV antenna instead.

Jack type Ⓐ

75-ohm coaxial cable
(not supplied)

FM75Ω
COAXIAL
AM

Jack type Ⓑ

IEC standard socket connector
(not supplied)

FM75Ω
COAXIAL
AM
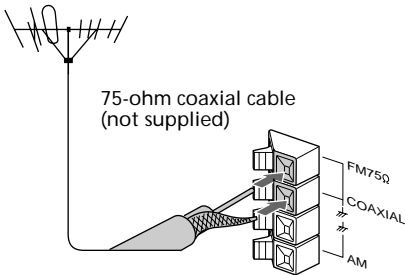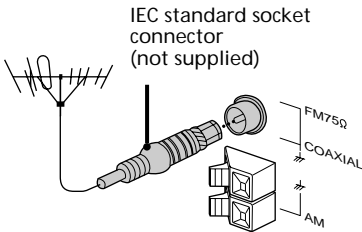
AM antenna

Connect a 6- to 15- meter (20- to 50- feet) insulated wire to the AM antenna terminal. Leave the supplied AM loop antenna connected.

Jack type Ⓐ

Insulated wire (not supplied)

FM75Ω
COAXIAL
AM

Jack type Ⓑ

Insulated wire
(not supplied)

FM75Ω
COAXIAL
AM
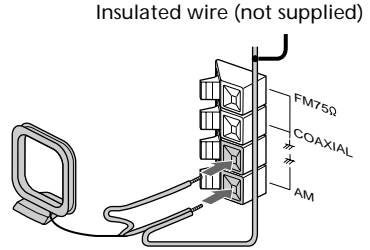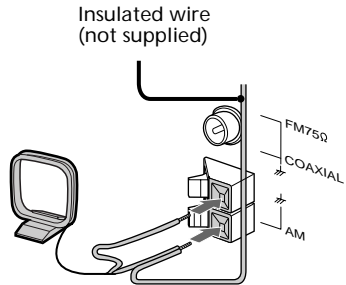
Precautions

On operating voltage

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

On safety

• The unit is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the unit itself has been turned off.
• Unplug the unit from the wall outlet (mains) if it is not to be used for an extended period of time. To disconnect the cord (mains lead), pull it out by the plug. Never pull the cord itself.
• Should any solid object or liquid fall into the component, unplug the unit and have the component checked by qualified personnel before operating it any further.
• The AC power cord must be changed only at the qualified service shop.

On placement

• Place the unit in a location with adequate ventilation to prevent heat build-up in the unit.
• Do not place the unit in an inclined position.
• Do not place the unit in locations where it is;
   — Extremely hot or cold
   — Dusty or dirty
   — Very humid
   — Vibrating
   — Subject to direct sunlight

On operation

• If the unit 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. Should this occur, the unit will not operate properly. Remove the CD and leave the unit turned on for about an hour until the moisture evaporates.
• When you move the unit, take out any discs.

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

Notes on CDs

• Before playing, clean the CD with a cleaning cloth. Wipe the CD from the center out.
• Do not use solvents such as benzene, thinner, commercially available cleaners or anti-static 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.

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.

Tab of side B   Tab of side A

Side A

Break off the cassette tab of side A
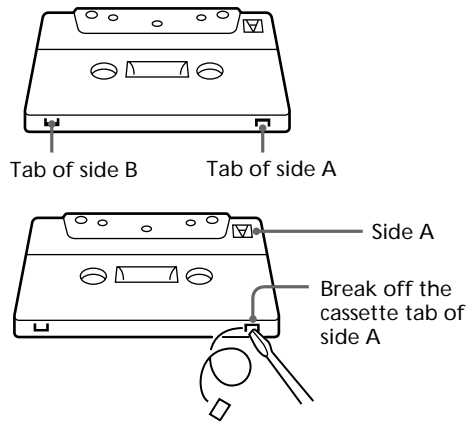
If you later want to reuse the tape for recording, cover the broken tab with adhesive tape.
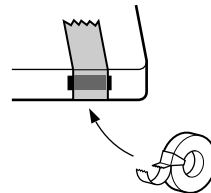
Before placing a cassette in the tape deck

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 etc. frequently. The tape may get entangled in the tape deck.

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

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

Demagnetizing the tape heads

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

Troubleshooting

If you run into any problem using this unit, use the following check list.

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

Should any problem persist, consult your nearest Sony dealer.

General

The display starts flashing as soon as you plug in the power cord even though you haven't turned on the power (demonstration mode).

Press DISPLAY when the power is turned off.

The demonstration mode appears automatically the first time you plug in the power cord or if there is a power outage.

The clock setting is canceled.

• The power cord is disconnected or a power failure occurs. Redo "Step 2: Setting the time" (on page 7). If you have set the timer, redo "Waking up to music" (on page 35) and "Timer-recording radio programs" (on page 37).

The radio presetting/timer setting is canceled.

• The power cord is disconnected or a power failure occurs for longer than half a day. Redo "Step 3: Presetting radio stations" (on page 8).

There is no sound.

• Turn VOLUME clockwise.
• The headphones are connected.
• Insert only the stripped portion of the speaker cord into the SPEAKER jack. Inserting the vinyl portion of the speaker cord will obstruct the speaker connections.
• The protective device on the amplifier has been activated because of short circuit. ("PROTECT" and "PUSH POWER" flash alternately.) Turn off the unit, eliminate the short-circuit problem and turn on the power again.
• There is no audio output during timer recording.

There is severe hum or noise.

- A TV or VCR is placed too close to the stereo system. Move the stereo system away from the TV or VCR.

The sound from the connected source is distorted.

- If "VIDEO" appears in the display when you press MD (VIDEO), switch the display to "MD" (see "Note: Connecting a VCR" on page 39).

"0:00" (or "12:00 AM") flashes in the display.

- A power interruption occurred. Set the clock and timer settings again.

The timer does not function.

- Set the clock correctly.

DAILY 1, DAILY 2, and REC do not appear when you press the CLOCK/TIMER SET button.

- Set the timer correctly.
- Set the clock.

The remote does not function.

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

There is acoustic feedback.

- Decrease the volume level.
- Move the microphone away form the speakers or change the direction of the microphone.

The color irregularity on a TV screen persists.

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

"PROTECT"and "PUSH POWER" appear alternately.

- A strong signal was input. Press I/⏻ to turn off the power, leave the system turned off for a while, then press I/⏻ again to turn on the power.
- Check the speaker cables in case "PROTECT" and "PUSH POWER" appear alternately again after you turn the system on.

Speakers

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

- Check the speaker connection and speaker placement.

Sound lacks bass.

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

CD Player

The CD tray does not close.

- The CD is not placed properly.

The CD will not play.

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

Play does not start from the first track.

- The player is in program or shuffle mode. Press PLAY MODE repeatedly until "PGM" or "SHUFFLE" disappears.

"OVER" is displayed.

- You have reached the end of the CD. Turn SHUTTLE counterclockwise.

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Tape Deck

The tape does not record.
- • No tape in the cassette holder.
- • The tab has been removed from the cassette (see "To save a tape permanently" on page 41).
- • The tape has reeled to the end.

The tape does not record nor play or there is a decrease in sound level.
- • The heads are dirty. Clean them (see "Cleaning the tape heads" on page 42).
- • The record/playback heads are magnetized. Demagnetize them (see "Demagnetizing the tape heads" on page 42).

The tape does not erase completely.
- • The record/playback heads are magnetized. Demagnetize them (see "Demagnetizing the tape heads" on page 42).

There is excessive wow or flutter, or the sound drops out.
- • The capstans or pinch rollers are dirty. Clean them (see "Cleaning the tape heads" on page 42).

Noise increases or the high frequencies are erased.
- • The record/playback heads are magnetized. Demagnetize them (see "Demagnetizing the tape heads" on page 42).

Tuner

Severe hum or noise ("TUNED" or "STEREO" flashes in the display).
- • Adjust the antenna.
- • The signal strength is too weak. Connect the external antenna.

A stereo FM program cannot be received in stereo.
- • Press STEREO/MONO so that "MONO" disappears.

If other troubles not described above occur, reset the system as follows:

1 Press ■, ENTER and I/$\circlearrowleft$ at the same time.
2 Unplug the power cord.
3 Plug the power cord back in.
4 Press I/$\circlearrowleft$ to turn on the power.

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

Specifications

AUDIO POWER SPECIFICATIONS: (MHC-BX7 USA models only)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

with 6 ohm loads both channels driven, from 120-10,000 Hz; rates 115 watts per channel minimum RMS power, with no more than 10% total harmonic distortion from 250 milliwatts to rated output.

Total harmonic distortion less than 0.07%
(6 ohms at 1 kHz, 60 W)

(MHC-BX5 USA models only)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

with 6 ohm loads both channels driven, from 120-10,000 Hz; rates 95 watts per channel minimum RMS power, with no more than 10% total harmonic distortion from 250 milliwatts to rated output.

Total harmonic distortion less than 0.07%
(6 ohms at 1 kHz, 50 W)

Amplifier section

Canadian model:
MHC-BX7
Continuous RMS power output (reference)
120 + 120 watts
(6 ohms at 1 kHz,
10% THD)
Total harmonic distortion less than 0.07%
(6 ohms at 1 kHz, 60 W)

MHC-BX5
Continuous RMS power output (reference)
80 + 80 watts
(6 ohms at 1 kHz,
10% THD)
Total harmonic distortion less than 0.07%
(6 ohms at 1 kHz, 50 W)

European model:
MHC-BX9
DIN power output (rated) 130 + 130 watts
(6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference)
170 + 170 watts
(6 ohms at 1 kHz,
10% THD)
Music power output (reference)
285 + 285 watts
(6 ohms at 1 kHz,
10% THD)
MHC-BX7
DIN power output (rated) 80 + 80 watts
(6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference)
100 + 100 watts
(6 ohms at 1 kHz,
10% THD)
Music power output (reference)
170 + 170 watts
(6 ohms at 1 kHz,
10% THD)
MHC-BX5
DIN power output (rated) 80 + 80 watts
(6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference)
100 + 100 watts
(6 ohms at 1 kHz,
10% THD)
Music power output (reference)
170 + 170 watts
(6 ohms at 1 kHz,
10% THD)

Other models:
MHC-DX9
The following measured at AC 120, 220, 240V 50/60 Hz
DIN power output (rated) 220 + 220 watts
(4 ohms at 1 kHz, DIN)
Continuous RMS power output (reference)
300 + 300 watts
(4 ohms at 1 kHz,
10% THD)
MHC-DX7
The following measured at AC 120, 220, 240V 50/60 Hz
DIN power output (rated) 160 + 160 watts
(6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference)
200 + 200 watts
(6 ohms at 1 kHz,
10% THD)
MHC-DX5
The following measured at AC 120, 220, 240V 50/60 Hz
DIN power output (rated) 95 + 95 watts
(6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference)
125 + 125 watts
(6 ohms at 1 kHz,
10% THD)

Specifications (continued)

Inputs
MD/VIDEO (AUDIO) IN: (phono jacks)	voltage 450 mV/250 mV, impedance 47 kilohms
MIC: (phone jack)	sensitivity 1 mV, impedance 10 kilohms

Outputs
PHONES: (stereo mini jack)	accepts headphones of 8 ohms or more
FRONT SPEAKER:	
MHC-BX9/BX7/BX5/DX7/DX5:	accepts impedance of 6 to 16 ohms
MHC-DX9:	accepts impedance of 4 to 16 ohms
SURROUND SPEAKER: (MHC-BX7/DX7 only)	accepts impedance of 16 ohms

CD player section

System	Compact disc and digital audio system
Laser	Semiconductor laser (λ=780nm) 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 (±0.5 dB)
Wavelength	780 – 790 nm
Signal-to-noise ratio	More than 90 dB
Dynamic range	More than 90 dB

CD OPTICAL DIGITAL OUT
(Square optical connector jack, rear panel)
Wavelength	660 nm
Output Level	–18 dBm

Tape player section

Recording system	4-track 2-channel stereo
Frequency response (DOLBY NR OFF*)	40 – 13,000 Hz (±3 dB), using Sony TYPE I cassette
Wow and flutter	±0.15% W.Peak (IEC) 0.1% W.RMS (NAB) ±0.2% W.Peak (DIN)

* MHC-BX9/DX9 only

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range	87.5 – 108.0 MHz
Antenna	FM lead antenna
Antenna terminals	75 ohm unbalanced
Intermediate frequency	10.7 MHz

AM tuner section

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

Speaker

North American and European models:
Front speaker SS-BX9 for MHC-BX9
Speaker system	2-way, 3-unit, bass-reflex type
Speaker units	
Woofer:	17 cm, cone type
Tweeter:	2.5 cm, horn type
Nominal impedance	6 ohms
Dimensions (w/h/d)	Approx. 260 x 480 x 415 mm ($10^1/_4$ x 19 x $16^3/_8$ in.)
Mass	Approx. 9.5 kg net per speaker (20 1b. 15 oz.)

Front speaker SS-BX7 for MHC-BX7
Front speaker SS-BX5 for MHC-BX5
Speaker system	3-way, 3-unit, bass-reflex type
Speaker units	
Super Woofer:	15 cm, cone type
Woofer:	15 cm, cone type
Tweeter:	5 cm, cone type
Nominal impedance	6 ohms
Dimensions (w/h/d)	
North American models:	Approx. 250 x 360 x 360 mm ($9^7/_8$ x $14^1/_4$ x $14^1/_4$ in.)
European models:	Approx. 250 x 360 x 340 mm ($9^7/_8$ x $14^1/_4$ x $13^3/_8$ in.)
Mass	
North American models:	Approx. 6.2 kg net per speaker (13 1b. 11 oz.)
European models:	Approx. 6.0 kg net per speaker (13 1b. 4 oz.)

Surround speaker SS-RS150 for MHC-BX7 (except Canadian model)

Speaker system	Full range, bass-reflex type, magnetically shielded
Speaker units	
Full range:	8 cm, cone type
Nominal impedance	16 ohms
Dimensions (w/h/d)	Approx. 270 x 108 x 200 mm ($9^7/_8$ x $4^1/_4$ x $7^7/_8$ in.)
Mass	Approx. 2.0 kg net per speaker (4 lb. 7 oz.)

Other models:
Front speaker SS-DX9 for MHC-DX9

Speaker system	2-way, 3-unit, bass-reflex type
Speaker units	
Woofer:	17 cm, cone type
Tweeter:	2.5 cm, cone type
Nominal impedance	4 ohms
Dimensions (w/h/d)	Approx. 260 x 480 x 415 mm ($10^1/_4$ x 19 x $16^3/_8$ in.)
Mass	Approx. 9.5 kg net per speaker (20 lb. 15 oz.)

Front speaker SS-DX7 for MHC-DX7

Speaker system	3-way, 3-unit, bass-reflex type
Speaker units	
Super Woofer:	15 cm, cone type
Woofer:	15 cm, cone type
Tweeter:	5 cm, cone type
Nominal impedance	6 ohms
Dimensions (w/h/d)	Approx. 250 x 360 x 360 mm ($9^7/_8$ x $14^1/_4$ x $14^1/_4$ in.)
Mass	Approx. 6.2 kg net per speaker (13 lb. 11 oz.)

Surround speaker SS-RS155 for MHC-DX7/ SS-RS155 for MHC-BX7 (Canadian model)

Speaker system	Full range, bass-reflex type, magnetically shielded
Speaker units	
Full range:	8 cm, cone type
Nominal impedance	16 ohms
Dimensions (w/h/d)	Approx. 250 x 100 x 241.2 mm ($9^7/_8$ x $3^{15}/_{16}$ x $9^1/_2$ in.)
Mass	Approx. 1.54 kg net per speaker (3 lb. 5 oz.)

Front speaker SS-DX5/SS-DX5B for MHC-DX5

Speaker system	3-way, 3-unit, bass-reflex type
Speaker units	
Super Woofer:	15 cm, cone type
Woofer:	15 cm, cone type
Tweeter:	5 cm, cone type
Nominal impedance	6 ohms
Dimensions (w/h/d)	Approx. 250 x 395 x 360 mm ($9^7/_8$ x $15^1/_2$ x $14^1/_4$ in.)
Mass	Approx. 6.6 kg net per speaker (14 lb. 9 oz.)

General

Power requirements

North American models:	120 V AC, 60 Hz
European models:	230 V AC, 50/60 Hz
Australian models:	230 - 240 V AC, 50/60 Hz
Mexican models:	120 V AC, 50/60 Hz
Thailand models:	220 V AC, 50/60 Hz
Other models:	120 V, 220 V or 230 - 240 V AC, 50/60 Hz Adjustable with voltage selector

Power consumption
U.S.A. models:

MHC-BX7	220 watts
MHC-BX5	160 watts

Canadian model:

MHC-BX7	280 VA
MHC-BX5	150 watts

European models:

MHC-BX9	180 watts
MHC-BX7	195 watts
MHC-BX5	190 watts

Other models:

MHC-DX9	300 watts
MHC-DX7	250 watts
MHC-DX5	230 watts

Dimensions (w/h/d)

HCD-BX9/DX9/BX7/ DX7/BX5/DX5	Approx. 280 x 360 x 425 mm (11 x $14^3/_{16}$ x $16^{11}/_{16}$ in.)

Mass :

HCD-DX9	Approx. 11 kg (24 lb. 5 oz)
HCD-BX9/DX7/DX5	Approx. 9.5 kg (21 lb.)
HCD-BX7/BX5	Approx. 8.6 kg (19 lb.)
Supplied accessories:	AM loop antenna (1) Remote commander (1) Batteries (2) FM lead antenna (1) Front speaker pads (8)

Design and specifications are subject to change without notice.

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