



Mini HI-FI Component System

Operating Instructions



DBX-DS55/DS50
DBX-DS33/DS30
DBX-DS22/DS20
DBX-DS11/DS10

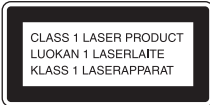
WARNING

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

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

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

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



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



Don't throw away the battery with general house waste, dispose of it correctly as chemical waste.

Except for European and Russian models



ENERGY STAR[®] is a U.S. registered mark. As an ENERGY STAR[®] partner, Sony Corporation has determined that this product meets the ENERGY STAR[®] guidelines for energy efficiency.



Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

Applicable accessories: Remote commander

MPEG Layer-3 audio coding technology and patents licensed from Fraunhofer IIS and Thomson.

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How to use this manual

This manual mainly explains operations using the remote, but the same operations can also be performed using the buttons on the unit having the same or similar names.

Playable discs

You can play back the following discs on this system. Other discs cannot be played back.

List of playable discs

Format of discs	Disc logo
Audio CDs	
CD-R/CD-RW (audio data/MP3 files)	   

Discs that this system cannot play

- CD-ROMs
- CD-Rs/CD-RWs other than those recorded in the following formats:
 - music CD format
 - MP3 format that conforms to ISO9660¹⁾ Level 1/Level 2, Joliet or Multi Session²⁾
- Discs with non-standard shapes (e.g., heart, square, star) cannot be played on this unit. Attempting to do so may damage the unit. Do not use such discs.
- A disc with paper or stickers on it.
- A disc that has the adhesive, cellophane tape, or a sticker still left on it.

1) ISO9660 Format

The most common international standard for the logical format of files and folders on a CD-ROM. There are several specification levels. In Level 1, file names must be in the 8.3 format (no more than eight characters in the name, no more than three characters in the extension “.MP3”) and in capital letters. Folder names can be no longer than eight characters. There can be no more than eight nested folder levels. Level 2 specifications allow file names and folder names up to 31 characters long. Each folder can have up to 8 trees. For Joliet in the expansion format (file and folder names can have up to 64 characters) make sure of the contents of the writing software, etc.

2) Multi Session

This is a recording method that enables adding of data using the Track-At-Once method. Conventional CDs begin at a CD control area called the Lead-in and end at an area called Lead-out. A Multi Session CD is a CD having multiple sessions, with each segment from Lead-in to Lead-out regarded as a single session. CD-Extra: This format records audio (audio CD data) on the tracks in session 1 and data on the tracks in session 2. Mixed CD: This format records data on the first track and audio (audio CD data) on the second and subsequent tracks of a session.

Notes on CD-R and CD-RW

- Some CD-Rs or CD-RWs cannot be played on this system depending upon the recording quality or physical condition of the disc, or the characteristics of the recording device. Furthermore, the disc will not play if it has not been correctly finalized. For more information, see the operating instructions for the recording device.
- Discs recorded on CD-R/CD-RW drives may not be played back because of scratches, dirt, recording condition or the driver's characteristics.
- CD-R and CD-RW discs recorded in multi-session that have not ended by "closing the session" are not supported.
- The system may be unable to play MP3 format files that do not have the ".MP3" extension.
- Attempting to play non-MP3 format files that have the ".MP3" extension may result in noise or malfunction.
- With formats other than ISO9660 Level 1 and 2, folder names or file names may not be displayed correctly.
- The following discs take a longer time to start playback.
 - a disc recorded with complicated tree structure.
 - a disc recorded in Multi Session.
 - a disc to which data can be added (non-finalized disc).

Music discs encoded with copyright protection technologies

This product is designed to playback discs that conform to the Compact Disc (CD) standard. Recently, various music discs encoded with copyright protection technologies are marketed by some record companies. Please be aware that among those discs, there are some that do not conform to the CD standard and may not be playable by this product.

Note on DualDiscs

A DualDisc is a two sided disc product which mates DVD recorded material on one side with digital audio material on the other side. However, since the audio material side does not conform to the Compact Disc (CD) standard, playback on this product is not guaranteed.

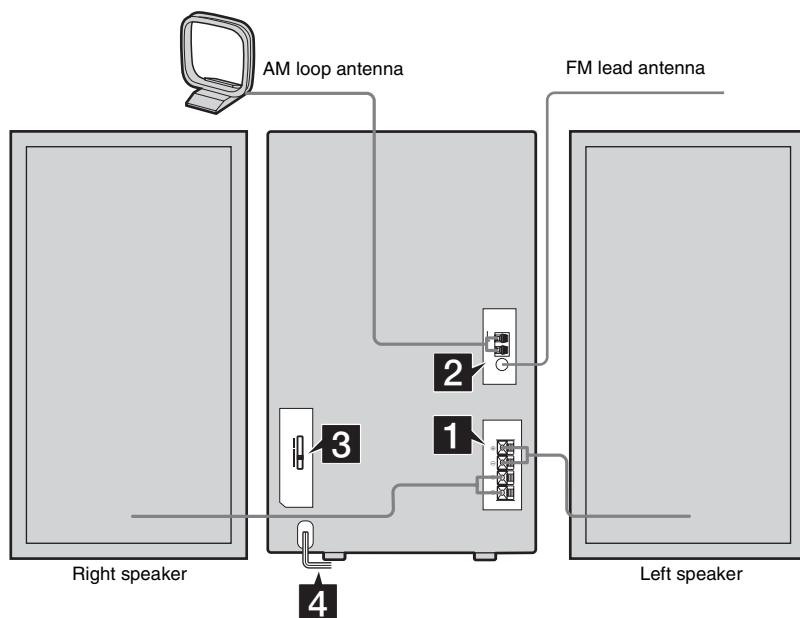
Cautions when playing a disc that is recorded in Multi Session

- If the disc begins with a CD-DA session, it is recognized as a CD-DA (audio) disc, and MP3 session is not played back.
- If the disc begins with an MP3 session, it is recognized as an MP3 disc, and CD-DA (audio) session is not played back.
- The playback range of an MP3 disc is determined by the tree structure of files produced by analyzing of the disc.
- A disc with a mixed CD format will be recognized as a CD-DA (audio) disc.

Getting Started

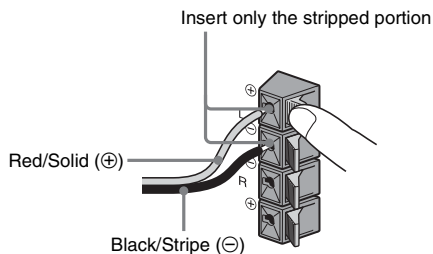
Hooking up the system

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



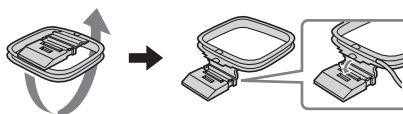
1 Connect the speakers.

Connect the right and left speaker cords to the SPEAKER terminals as shown below.



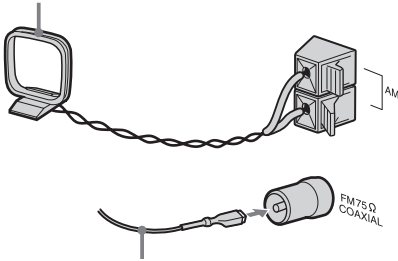
2 Connect the FM and AM antennas.

Set up the AM loop antenna, then connect it.



Plug type ①

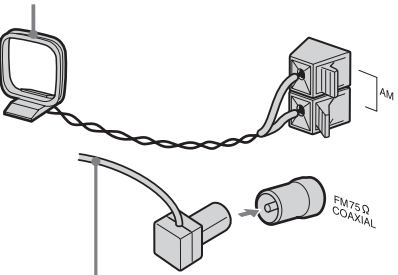
AM loop antenna



Extend the FM lead antenna horizontally

Plug type ②

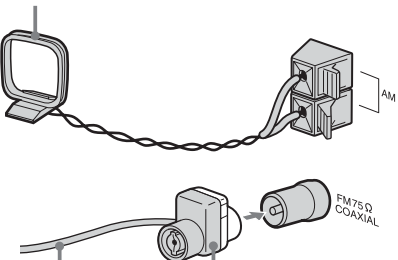
AM loop antenna



Extend the FM lead antenna horizontally

Plug type ③

AM loop antenna



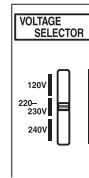
Extend the FM lead antenna horizontally

North American model:
Connect white side.Other models:
Connect brown side.**Note**

To prevent noise pickup, keep the antennas away from the speaker cords.

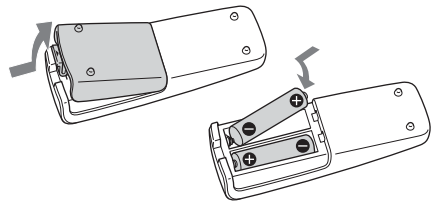
3 For models with a voltage selector, set VOLTAGE SELECTOR to the local power line voltage.

Refer to the print on your system's VOLTAGE SELECTOR for available settings.

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

Inserting two R6 (size AA) batteries into the remote**Note**

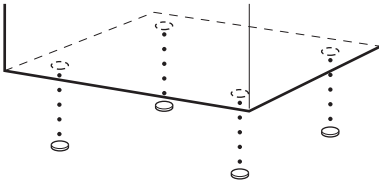
If you do not use the remote for a long period of time, remove the batteries to avoid possible damage from battery leakage and corrosion.

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.

Attaching the speaker pads

Attach the supplied speaker pads to the bottom of the speakers to stabilize the speakers and prevent them from slipping.



When carrying this system

Perform the following procedure to protect the CD mechanism. Use buttons on the unit for the operation.

- 1 Press I/⏻ to turn on the system, then press FUNCTION repeatedly to switch the function to CD.
- 2 Make sure that all discs are removed from the system.
- 3 Hold down ■ and then press ►►►► and DISPLAY until "STANDBY" appears. After a few seconds later, "STANDBY" disappears and "LOCK" appears.
- 4 Unplug the power cord.

Setting the clock

Use buttons on the remote for the operation.

- 1 Press I/⏻ to turn on the system.
- 2 Press CLOCK/TIMER SET.
- 3 Press ◀◀ or ▶▶ repeatedly to set the hour.
- 4 Press ENTER.
- 5 Press ◀◀ or ▶▶ repeatedly to set the minute.
- 6 Press ENTER.

The clock starts working.

To adjust the clock

- 1 Press CLOCK/TIMER SET.
- 2 Press ◀◀ or ▶▶ repeatedly to select "CLOCK SET", then press ENTER.
- 3 Do the same procedures as step 3 to 6 above.

Notes

- The clock settings are canceled when you disconnect the power cord or if a power failure occurs.
- You cannot set the clock in Power Saving Mode (page 25).

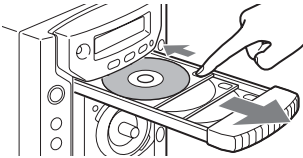
Loading a disc

Use buttons on the unit for the operation.

- 1 Press **▲**.
- 2 Place a disc with the label side up on the disc tray.



To insert additional discs, slide the disc tray with your finger as shown below.



- 3 Press **▲** again to close the disc tray.

Notes

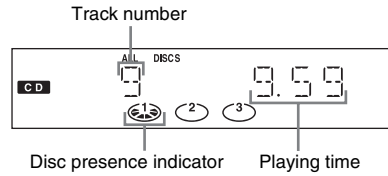
- Do not use a disc with tape, seals or paste on it as this may cause malfunction.
- Do not forcibly press the disc tray closed with your finger, as this may cause malfunction.

Playing a disc

— Normal Play/Shuffle Play

This system lets you play audio CDs and discs with MP3 audio tracks.

Example: When playing a disc



- 1 Press **CD** (or **FUNCTION** repeatedly) to switch the function to **CD**.

2 Press **PLAY MODE** repeatedly in stop mode until the mode you want appears in the display.

Select	To play
ALL DISCS (Normal Play)	All discs in the disc tray continuously.
1DISC (Normal Play)	The tracks on the disc you have selected in original order.
FLDR (Normal Play)	All MP3 audio tracks in the folder on the disc you have selected in original order. When playing a non-MP3 disc, the system performs the same operation as 1DISC Play.
ALL DISCS SHUF (Shuffle Play)	The tracks on all discs in random order.
1DISC SHUF (Shuffle Play)	The tracks on the disc you have selected in random order.
FLDR SHUF (Shuffle Play)	The MP3 audio tracks in the folder on the disc you have selected in random order. When playing a non-MP3 disc, the system performs the same operation as 1DISC SHUF Play.
PGM (Program Play)	The tracks on the disc in the order you want them to be played (see “Creating your own program” on page 12).

3 Press **▶**.

Other operations

To	Do this
Stop play	Press ■ .
Pause	Press II . Press again to resume play.
Select a track	Press ◀◀ or ▶▶ repeatedly.
Select a folder of MP3	Press FOLDER + or - repeatedly after step 2.
Find a point in a track	Keep pressing ◀◀ or ▶▶ during playback and release it at the desired point.
Select a disc in stop mode	Press DISC SKIP (or DISC 1 – 3 or DISC SKIP/EX-CHANGE on the unit).
Switch to CD function from other function	Press DISC 1 – 3 on the unit (Automatic Source Selection).
Exchange other discs while playing	Press DISC SKIP/EX-CHANGE on the unit.
Remove a disc	Press ▲ on the unit.

Notes

- You cannot change the play mode during playback.
- Some time may be needed to start playback of discs recorded in complex configurations such as many layers.
- When the disc is inserted, the player reads all the tracks on that disc. If there are many folders or non-MP3 audio tracks on the disc, it may take a long time for play to begin or for the next MP3 audio track to start play.
- Do not save unnecessary folders or tracks other than MP3 ones in the disc to be used for MP3 listening. We recommend that you do not save other types of tracks or unnecessary folders on a disc that has MP3 audio tracks.
- A folder that does not include an MP3 audio track is skipped.
- Maximum number of folders: 150 (including root folder)
- The maximum number of MP3 audio tracks and folders that can be contained on a single disc is 300.
- Playback is possible up to 8 levels.
- MP3 audio tracks are played back in the order that they are recorded on the disc.
- Depending on the encoding/writing software, recording device, or the recording media used at the time an MP3 audio track is recorded, you may encounter such problems as disabled playback, sound interruptions, and noise.

Searching for tracks with the jog dial

You can quickly search for and play the desired track by using the jog dial on the unit. Use buttons on the unit for the operation.

1 Press FUNCTION repeatedly to switch the function to CD.

2 Turn the jog dial in stop mode to select the desired track, then press ENTER.

To search for tracks on the MP3 disc, turn the jog dial to first select the desired folder, then press ENTER before performing step 2.

Playback starts from the selected track.

Note

Only the first 6 characters are displayed when performing the track search.

Tip

You can search for and play other tracks in the selected folder during playback. To select a track of another folder during playback, turn the jog dial counterclockwise until “FOLDER” appears, then press ENTER to select a folder. You can then select the desired track by turning the jog dial.

To cancel the track search

Press CANCEL.

Notes

- The track search is possible only for the current disc.
- The track search is not possible in Program Play mode.

Playing repeatedly

— Repeat Play

You can play all the tracks or a single track on a disc repeatedly.

Press REPEAT (or REP on the unit) repeatedly until “REP” or “REP1” appears.

REP: For all the tracks on a disc up to five times.

REP1: For a single track only.

To cancel Repeat Play

Press REPEAT (or REP on the unit) repeatedly until both “REP” and “REP1” disappear.

Notes

- You cannot select “REP” and “ALL DISCS SHUF” at the same time.
- When you select “REP1”, that track is repeated endlessly until “REP1” is canceled.

Creating your own program

— Program Play

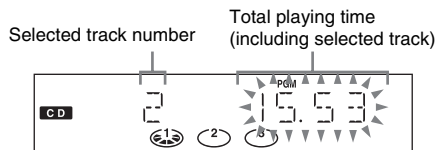
You can make a program of up to 25 steps from all the discs in the order you want to play them.

You can synchro record the programmed tracks onto a cassette tape (page 18).

Using the remote

- 1 Press CD (or FUNCTION repeatedly) to switch the function to CD.**
- 2 Press PLAY MODE repeatedly in stop mode until “PGM” appears.**
- 3 Press DISC SKIP to select a disc.**
- 4 Press ◀◀ or ▶▶ repeatedly until the desired track number appears.**

When programming the MP3 audio tracks, press FOLDER + or – repeatedly to select the desired folder, then press ◀◀ or ▶▶ repeatedly until the desired track number appears.



- 5 Press ENTER.**

The track is programmed.

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

- 6 Program additional tracks.**

To program	Repeat steps
Other tracks on the same disc	4 and 5
Other tracks on other discs	3 to 5

- 7 Press ▶.**

Program Play starts.

Using the jog dial

Use buttons on the unit for the operation.

- 1 Press FUNCTION repeatedly to switch the function to CD.**
- 2 Press PLAY MODE repeatedly in stop mode until “PGM” appears.**
- 3 Press DISC SKIP/EX-CHANGE repeatedly to select a disc.**
- 4 Turn the jog dial to select the desired track.**

To program tracks on the MP3 disc, turn the jog dial to first select the desired folder, then press ENTER before performing step 4.

- 5 Press ENTER.**

The track is programmed.

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

- 6 To program additional tracks, repeat steps 3 and 5.**

- 7 Press ► (or ◀► for DBX-DS55/DS50/DS33/DS30).**

Program Play starts.

Other operations

To	Do this
Cancel Program Play	Press PLAY MODE repeatedly in stop mode until “PGM” disappears.
Erase the program	Press CLEAR in stop mode. Each time you press the button, a track is cleared from the end of the program.
Add a track to the end of the program	Perform steps 3 and 4 in stop mode.

Notes

- You cannot erase the program during playback.
- You cannot program the tracks on other discs by using the jog dial.

Tips

- You can program the tracks during playback by using the jog dial.
- The program you made remains after Program Play finishes. To play the same program again, press CD (or FUNCTION repeatedly) to switch the function to CD, then press ►. However, the program is cleared when you open the disc tray.
- “- - -” appears when the total CD program time exceeds 100 minutes, or when you select an MP3 audio track.

Tuner

Presetting radio stations

You can preset up to 20 FM stations and 10 AM stations. You can then tune in any of those stations simply by selecting the corresponding preset number.

Automatic tuning preset

You can automatically tune in all of the stations that can be received in your area and then store the radio frequency of the desired stations.

- 1 Press **TUNER/BAND** (or **FUNCTION** repeatedly) to switch the function to tuner.
- 2 Press **TUNER/BAND** repeatedly to select “FM” or “AM”.
- 3 Press **TUNING MODE** repeatedly until “AUTO” appears in the display.
- 4 Press + or – (or **TUNING + or –** on the unit).

The frequency changes as the system scans for a station. Scanning stops automatically when a station is tuned in. At that time, “TUNED” and “STEREO” (for an FM stereo program) appear.



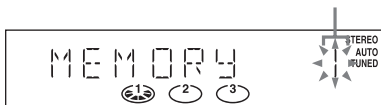
If “TUNED” does not appear and the scanning does not stop

Set the frequency of the desired radio station as described in steps 3 through 8 of “Manual tuning preset” .

- 5 Press **TUNER MEMORY**.

A preset number appears.

Preset number



- 6 Press + or – (or **TUNING + or –** on the unit) repeatedly to select the desired preset number.
- 7 Press **ENTER**.
- 8 Repeat steps 2 through 7 to store other stations.

Manual tuning preset

You can manually tune in and store the radio frequency of the desired stations.

- 1 Press **TUNER/BAND** (or **FUNCTION** repeatedly) to switch the function to tuner.
- 2 Press **TUNER/BAND** repeatedly to select “FM” or “AM”.
- 3 Press **TUNING MODE** repeatedly until “AUTO” and “PRESET” disappear from the display.
- 4 Press + or – (or **TUNING + or –** on the unit) repeatedly to tune in the desired station.
- 5 Press **TUNER MEMORY**.
A preset number appears.
- 6 Press + or – (or **TUNING + or –** on the unit) repeatedly to select the desired preset number.
- 7 Press **ENTER**.
- 8 Repeat steps 2 through 7 to store other stations.

Other operations

To	Do this
Tune in a station with a weak signal	Follow the procedure described in “Manual tuning preset” .
Set another station to the existing preset number	Start over from step 2. After step 5, press + or – (or TUNING + or – on the unit) repeatedly to select the preset number you want to store the other station.

To change the AM tuning interval (except for European and Russian models)

The AM tuning interval is factory-preset to 9 kHz (or 10 kHz for some areas). To change the AM tuning interval, tune in any AM station first, then turn off the system. While holding TUNING MODE on the unit, press I/O on the unit. When you change the interval, all the AM preset stations are erased. To reset the interval, repeat the same procedure.

Note

You cannot change the AM tuning interval in Power Saving Mode (page 25).

Tips

- The preset stations are retained for about a day even if you disconnect the power cord or if a power failure occurs.
- To improve broadcast reception, adjust the supplied antennas, or connect a commercially available external antenna.

Listening to the radio

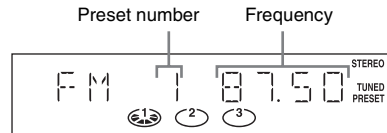
You can listen to a radio station either by selecting a preset station, or by manually tuning in the station.

Listening to a preset station

— Preset Tuning

Preset radio stations in the tuner's memory first (see "Presetting radio stations" on page 14).

- 1** Press TUNER/BAND (or FUNCTION repeatedly) to switch the function to tuner.
- 2** Press TUNER/BAND repeatedly to select "FM" or "AM".
- 3** Press TUNING MODE repeatedly until "PRESET" appears in the display.
- 4** Press + or – (or TUNING + or – on the unit) repeatedly to select the desired preset station.



Listening to non-preset radio station

— Manual Tuning

- 1** Press TUNER/BAND (or FUNCTION repeatedly) to switch the function to tuner.
- 2** Press TUNER/BAND repeatedly to select “FM” or “AM”.
- 3** Press TUNING MODE repeatedly until “AUTO” and “PRESET” disappear from the display.
- 4** Press + or – (or TUNING + or – on the unit) repeatedly to tune in the desired station.

Tips

- To improve broadcast reception, adjust the supplied antennas, or connect a commercially available external antenna.
- When an FM stereo program has static noise, press FM MODE repeatedly until “MONO” appears. There will be no stereo effect, but the reception will improve.
- Press TUNING MODE repeatedly until “AUTO” appears in step 3 above, then press + or – (or TUNING + or – on the unit). The frequency indication changes and scanning stops when the system tunes in a station (Automatic Tuning).
- To record the radio programs, use manual recording (page 19).

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 cyclically as follows:

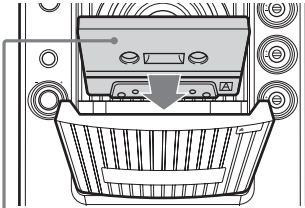
Station name¹⁾ → Preset number²⁾ and frequency → Clock display (for eight seconds) → Effect status

¹⁾ If the RDS broadcast is not properly received, the station name may not appear in the display.

²⁾ Preset number is displayed only if you preset radio stations (page 14).

Loading a tape

- 1 Press **▲** PUSH on the unit.
- 2 Load a recorded/recordable tape into the cassette holder.



With the side you want to play/record facing forward.

Playing a tape

You can use TYPE I (normal) tape.

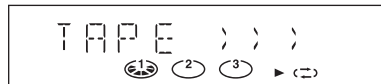
For DBX-DS55/DS50/DS33/DS30

- 1 Load a tape.
- 2 Press **TAPE** (or **FUNCTION** repeatedly) to switch the function to **TAPE**.
- 3 Press **PLAY MODE** repeatedly to select “**→**” to play one side. Select “**↔**” or “**←**”^{*} to play both sides.

^{*} The tape deck stops automatically after repeating the sequence 5 times.

- 4 Press **▶** (or **◀▶** on the unit).

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



For DBX-DS22/DS20/DS11/DS10

- 1 Load a tape.
- 2 Press **TAPE** (or **FUNCTION** repeatedly) to switch the function to **TAPE**.
- 3 Press **▶**.

The tape starts playing.

Other operations

To	Do this
Stop play	Press ■ .
Pause	Press . Press again to resume play.
Fast-forward or rewind	Press ◀◀ or ▶▶ .
Remove a tape	Press ▲ PUSH on the unit in stop mode.

Note

Do not eject the tape during playback or recording, as this may cause irreparable damage to the tape and cassette holder.

Tip




When a tape is inserted, corresponding forward (**▶**)/reverse (**◀**) indicators light. The reverse indicator lights up only for DBX-DS55/DS50/DS33/DS30.




Tape – Recording

Recording your favorite CD tracks on a tape

— CD-TAPE Synchro Recording

You can record a whole CD on a tape. You can use TYPE I (normal) tape. The recording level is adjusted automatically. Use buttons on the unit for the operation.

- 1 Load a recordable tape.**
- 2 (DBX-DS55/DS50/DS33/DS30 only)**
Press **FUNCTION** repeatedly to switch the function to **TAPE**, then press **PLAY MODE** repeatedly to select “” to record on one side. Select “” or “” to record on both sides.

If you record on the reverse side, press  repeatedly to light up the  indicator, then press .

- 3 Press FUNCTION repeatedly to switch the function to CD and load a disc you want to record.**

If you have already loaded the disc, press **DISC SKIP/EX-CHANGE** to select the disc.

When you want to record a folder from an MP3 disc, be sure to press **PLAY MODE** repeatedly to select **FLDR**, then press **FOLDER +** or **-** on the remote repeatedly to select the desired folder before proceeding.

- 4 Press CD SYNC.**

The tape deck stands by for recording. “REC” flashes.

- 5 Press REC PAUSE/START.**

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

To stop recording

Press .

To record a disc by specifying track order

You can record only your favorite CD tracks using Program Play. Between steps 3 and 4, perform steps 2 to 6 of “Creating your own program” (page 12).

Tips

- For DBX-DS55/DS50/DS33/DS30, 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.
- For DBX-DS55/DS50/DS33/DS30, 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.

Recording on a tape manually

— Manual Recording

You can record just the portions you like from a CD or radio program on a tape.

You can also record from connected components (see “Hooking up optional components” on page 28).

Use buttons on the unit for the operation.

- 1 Load a recordable tape.**
- 2 (DBX-DS55/DS50/DS33/DS30 only)**
Press FUNCTION repeatedly to switch the function to TAPE, then press PLAY MODE repeatedly to select “>” to record on one side. Select “<=>” or “<=>” to record on both sides.

If you record on the reverse side, press <=> repeatedly to light up the <=> indicator, then press ■.

- 3 Press FUNCTION repeatedly to select the desired source to record.**
 - CD: To record from this system’s CD player.
 - TUNER: To record from this system’s tuner.
 - AUDIO IN: To record from the optional component connected to the AUDIO IN jack.

- 4 Press REC PAUSE/START.**

The tape deck stands by for recording.
“REC” flashes.

- 5 Press REC PAUSE/START, then start playing the desired source to record.**

Recording starts.

To stop recording

Press ■.

Notes

- You cannot listen to other sources while recording.
- Recording stops if you change the function to another one.

Tips

- For DBX-DS55/DS50/DS33/DS30, 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.
- For recording from the tuner:
If noise is heard while recording from the tuner, move the respective antenna to reduce the noise.

Sound Adjustment

Adjusting the sound

You can reinforce the bass and create a more powerful sound.

Press i-Bass on the unit.

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

LOW* → HIGH* → OFF

* The volume switches to power mode, the equalizer curve changes, and the i-Bass button lights up.

Selecting the sound effect

Selecting the effect from the music menu

Press EQ repeatedly to select the preset you desire.

The preset name appears in the display. See the chart “Sound effect options”.

To cancel the sound effect

Press EQ repeatedly until “EQ OFF” appears.

Sound effect options

EQ	Effect
HEAVY	Sound with boosted heavy bass that is suited to rock and heavy metal.
VOCAL	Sound with boosted bass and midrange that lets vocals reverberate.
SALSA	Sound with boosted bass and treble that is suited to Latin music.
TECHNO	Sound with reinforced bass and treble that is suited to techno music.
HIP HOP	Sound with amplified bass and treble that is suited to Hip Hop and other rhythmical music.
USER*	User preset music source (see “Adjusting the graphic equalizer and storing” on page 21).

* If you have set manually the equalizer setting.

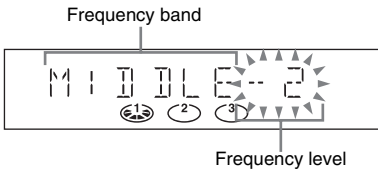
Adjusting the graphic equalizer and storing

You can adjust the sound by raising or lowering the levels of specific frequency ranges, then store the setting as a personal file (P FILE) in the memory.

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

Use buttons on the unit for the operation.

- 1 Press **BASS, MIDDLE or TREBLE control to adjust the level.**



- 2 Press and hold **EQ** until **“COMPLETE”** appears.

This setting is automatically stored as a personal file.

The setting previously stored at this memory location is erased and replaced by the new settings.

Other operations

To	Press
Call up a personal file	EQ repeatedly until “USER” appears.
Cancel a personal file	EQ repeatedly until “EQ OFF” appears.

Singing along: Karaoke

(Except for European model)

You can sing along by connecting an optional microphone. Use buttons on the unit for the operation.

Enjoying karaoke

- 1 Turn **MIC LEVEL** to **MIN** to turn down the microphone control level.
- 2 Connect an optional microphone to **MIC** jack.
- 3 Start playing the music.
- 4 Adjust the microphone volume by turning **MIC LEVEL**.

After you have finished

Turn **MIC LEVEL** to **MIN** and disconnect the microphone from **MIC** jack.

Mixing and recording sounds

You can “mix” sounds by playing one of the components and singing or speaking into a microphone (not supplied).

The mixed sound can be recorded on a tape. Use buttons on the unit for the operation.

- 1 Prepare the source you want to mix. Then, load a recordable tape.
- 2 Press **FUNCTION** repeatedly to select the source you want to record (e.g., CD).
- 3 Press **REC PAUSE/START**.
The tape deck stands by for recording. “REC” flashes.
- 4 Press **REC PAUSE/START**, and then start singing, speaking or playing the desired source.
Recording starts.

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 disc.
- When high level sound signals are input, the system automatically adjusts the recording level to prevent distortion of the recorded sound signal (Auto Level Control function).

Falling asleep to music

— Sleep Timer

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

Press SLEEP.

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

AUTO* → 90MIN → 80MIN → ...
→ 10MIN → OFF

* The system automatically turns off in 100 minutes or after the current disc or tape finishes playing.

Other operations

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

* You cannot check the remaining time if you select "AUTO".

Note

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

Tip

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

Waking up to music

— Play Timer

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

Use buttons on the remote for the operation.

1 Prepare the sound source you want to play.

- CD: Load a disc. To start from a specific track, make a program (see "Creating your own program" on page 12).
- Tape: Load a tape with the side you want to play facing forward (see "Playing a tape" on page 17).
- Tuner: Tune in the preset radio station (see "Listening to the radio" on page 15).

2 Press VOLUME +/- to adjust the volume.

3 Press CLOCK/TIMER SET.

4 Press ◀◀ or ▶▶ repeatedly to select "PLAY SET", then press ENTER.

"ON TIME" appears and the hour indication flashes.

5 Set the time to start playing.

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

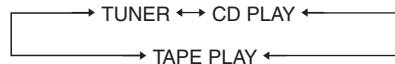
The minute indication flashes.

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

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

7 Press ◀◀ or ▶▶ repeatedly until the desired sound source appears.

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



8 Press ENTER.

The type of timer (“PLAY”), the start time, the stop time, and the sound source appear in turn, before the original display returns.

9 Press I/⏻ to turn off the system.

Other operations

To	Do this
Activate the timer/ Check the setting	<ol style="list-style-type: none">1 Press CLOCK/TIMER SELECT.2 Press ◀◀ or ▶▶ repeatedly until “PLAY” appears, then press ENTER.
Change the setting	Start over from step 1.
Cancel the timer	<ol style="list-style-type: none">1 Press CLOCK/TIMER SELECT.2 Press ◀◀ or ▶▶ repeatedly until “TIMER OFF” appears, then press ENTER.

Notes

- You cannot activate the Play Timer and the Rec Timer at the same time.
- If you use the Play Timer and the Sleep Timer at the same time, the Sleep Timer has priority.
- Do not operate the system from the time the system turns on until the play starts (about 15 seconds before the preset time).
- If the system is on about 15 seconds before the preset time, the Play Timer will not be activated.
- You cannot use the optional component connected to the AUDIO IN jack as sound sources for the Play Timer.
- The Play Timer setting remains as long as the setting is not canceled manually.

Timer recording radio programs

— Rec Timer

You can record a preset radio station from a specified time. To timer record, you must first preset the radio station (see “Presetting radio stations” on page 14) and set the clock (see “Setting the clock” on page 8).

Use buttons on the remote for the operation.

- 1 Tune in the preset radio station (see “Listening to a preset station” on page 15).**
- 2 Press CLOCK/TIMER SET.**
- 3 Press ◀◀ or ▶▶ repeatedly to select “REC SET”, then press ENTER.**
“ON TIME” appears and the hour indication flashes.
- 4 Set the time to start recording.**
Press ◀◀ or ▶▶ repeatedly to set the hour, then press ENTER.
The minute indication flashes.
Press ◀◀ or ▶▶ repeatedly to set the minute, then press ENTER.
- 5 Set the time to stop recording following the same procedure as step 4.**
The type of timer (“REC”), the start time, the stop time, and the preset radio station to be recorded (e.g., “FM 5”) appear in turn, before the original display returns.
- 6 Load a recordable tape.**
- 7 (DBX-DS55/DS50/DS33/DS30 only) Press FUNCTION repeatedly to switch the function to TAPE, then press PLAY MODE repeatedly to select “↔” to record on one side. Select “↔↔” or “↔↔” to record on both sides.**
If you select both sides recording or front side recording, press ▶ repeatedly to light up the ▶ indicator, then press ■. If you record on the reverse side, press ▶ repeatedly to light up the ◀ indicator, then press ■.
- 8 Press I/⏻ to turn off the system.**

Other operations

To	Do this
Activate the timer/ Check the setting	1 Press CLOCK/TIMER SELECT. 2 Press ◀◀ or ▶▶ repeatedly until “REC” appears, then press ENTER.
Change the setting	Start over from step 1.
Cancel the timer	1 Press CLOCK/TIMER SELECT. 2 Press ◀◀ or ▶▶ repeatedly until “TIMER OFF” appears, then press ENTER.

Notes

- You cannot activate the Play Timer and the Rec Timer at the same time.
- If you use the Rec Timer and the Sleep Timer at the same time, the Sleep Timer has priority.
- Do not operate the system from the time the system turns on until the recording starts (about 15 seconds before the preset time).
- If the system is on about 15 seconds before the preset time, the Rec Timer will not be activated.
- The volume is reduced to minimum during recording.
- Note that the Rec Timer is set at the same time as the Play Timer sound source is set to tape, the Rec Timer sound may be recorded onto the tape.
- The Rec Timer is canceled automatically after the Rec Timer has been activated.

Display

Turning off the display

— Power Saving Mode

The demonstration display (display window and buttons lighting and flashing even when the system power is off) and the clock display can be turned off to minimize the amount of power consumed during standby (Power Saving Mode).

Press DISPLAY repeatedly while the system is off until the demonstration display or the clock display disappears.

To cancel Power Saving Mode

Press DISPLAY while the system is off. Each time you press the button, the display switches cyclically as follows:

Demonstration display → Clock display* → No display (Power Saving Mode)

* The clock is displayed only if you set the clock.

Note

You cannot perform the following operations in Power Saving Mode.

- setting the clock
- changing the AM tuning interval (except for European and Russian models)
- turning on the system by pressing the function buttons (e.g., CD)

Tips

- The timer continues to operate in Power Saving Mode.
- STANDBY indicator lights up even in Power Saving Mode.

Viewing information about the disc in the display

You can check the playing time and remaining time of the current track or that of the disc.

When a disc with MP3 audio tracks is loaded, you can also check the information recorded on disc, such as the titles.

Checking the remaining time and titles

Press DISPLAY during Normal Play.

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

Current track number and elapsed playing time
→ Current track number and remaining time¹⁾
→ Remaining time of the disc²⁾ → Track title and artist name (disc with MP3 audio tracks³⁾ only) → Folder name (disc with MP3 audio tracks³⁾ only) → Clock display (for eight seconds) → Effect status

¹⁾ “--:--” appears when playing back MP3 audio tracks.

²⁾ “--:--” appears in ALL DISCS, SHUFFLE or Program Play mode or when playing back MP3 audio tracks.

³⁾ When you play back a track with an ID3 tag ver. 1 or ver. 2, the ID3 tag information appears. The ID3 tag displays the track title, album name and artist name information.

Checking the total playing time and titles

Press DISPLAY in stop mode.

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

■ Normal Play mode

TOC display¹⁾ or total folder number of the disc²⁾ or total track number of the current folder²⁾ → Folder name²⁾ or volume label²⁾ → Clock display (for eight seconds) → Effect status

¹⁾ TOC = Table of Contents; displays current disc number, total number of tracks on the disc, and total playing time of the disc.

²⁾ For discs with MP3 audio tracks, folder names or volume label may not be displayed depending on the play mode.

■ Program Play mode

The last track number of the program and the total playing time → Total track number of the program (for eight seconds) → Volume label* → Clock display (for eight seconds) → Effect status

* For discs with MP3 audio tracks

Notes

- The total playing time is not displayed for a disc with MP3 audio tracks.
- ID3 tag applies to version 1 and version 2.
- If the MP3 audio track you play back has an ID3 tag, the ID3 tag information is displayed.
- In the following cases, elapsed playing time and remaining time of the track may not be displayed accurately.
 - when an MP3 audio track of VBR (variable bit rate) is played.
 - when fast forward or fast reverse is performed.
- For Russian model, MP3 and ID3 tag information can be displayed in Russian characters. However, depending on the encoding/writing software or recording device, the characters may not be correctly displayed.

Viewing the tuner information in the display

Press DISPLAY while listening to the radio.

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

Station name¹⁾ → Preset number²⁾ and frequency → Clock display (for eight seconds) → Effect status

¹⁾ European model only

²⁾ Preset number is displayed only if you preset radio stations (page 14).

Adjusting the illumination

You can adjust the illumination around the VOLUME control on the unit.

Use buttons on the unit for the operation.

Turn the VOLUME control clockwise or counterclockwise while holding down ■.

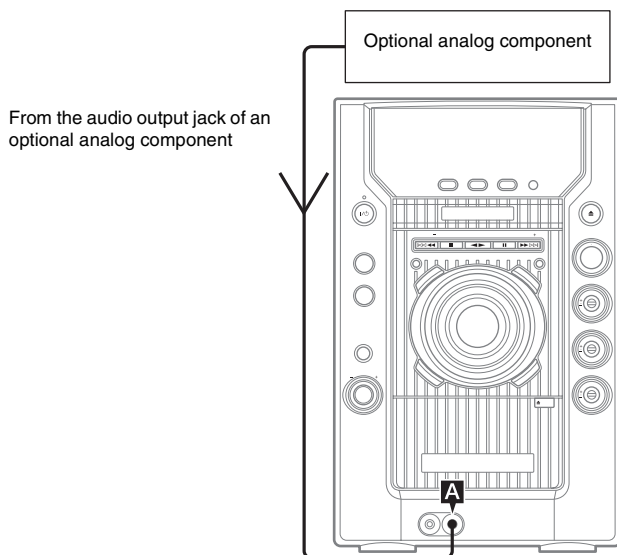
To increase the illumination, turn the VOLUME control clockwise.

To reduce the illumination, turn the VOLUME control counterclockwise.

Optional Components

Hooking up optional components

To enhance your system, you can connect optional components. Refer to the operating instructions provided with each component. European model is used for illustration purpose.



A AUDIO IN jack

Use audio cord (not supplied) to connect an optional analog component (Portable Audio Player, etc.) to this jack. You can then record or listen to the sound from the component through this system.

Listening to audio from a connected component

- 1 Connect the audio cord (not supplied). See "Hooking up optional components".
- 2 Press FUNCTION repeatedly until "AUDIO IN" appears.
- 3 Start playing the connected component.

Recording audio from connected component

- 1 Connect the audio cord (not supplied).
- 2 Start recording manually. See "Recording on a tape manually" on page 19.

Notes

- If the connected component has the AVLS (Automatic Volume Limiter System) function, be sure to turn off the function when using the AUDIO IN. Otherwise, you will have to turn up the volume of the speaker, and that may cause distortion.
- If the connected component has the BASS BOOST or MEGA BASS function, be sure to turn off the function when using the AUDIO IN. Otherwise, the sound from the speaker may be distorted.

Troubleshooting

Problems and remedies

Should you encounter a problem with your system, do the following:

- 1 Make sure the power cord and speaker cords are correctly and firmly connected.
- 2 Find your problem in the troubleshooting checklist below and take the indicated corrective action.

If the problem persists after doing all of the above, consult your nearest Aiwa dealer.

When the **STANDBY** indicator flashes

Immediately unplug the power cord and check the following items.

- If your system has a voltage selector, is the voltage selector set to the correct voltage? Check the voltage for your region, then make sure the voltage selector is set correctly.
- Are the + and – speaker cords short-circuited?
- Are you using only the prescribed speakers?
- Is anything blocking the ventilation holes on the rear of the system?

Check all the above items and fix any problems found. After **STANDBY** indicator stops flashing, reconnect the power cord and turn on the system. If the indicator still flashes, or if the cause of the problem cannot be found even after checking all the above items, consult your nearest Aiwa dealer.

General

The display starts flashing as soon as you plug in the power cord even though you have not turned on the system (see step 4 of “Hooking up the system” (page 6)).

- Press **DISPLAY** twice while the system is off. The demonstration disappears.

“- -: -” appears in the display.

- A power interruption has occurred. Set the clock (page 8) and timer settings (pages 23 and 24) again.

The clock setting/radio presetting/timer is canceled.

- Redo the following:
 - “Setting the clock” (page 8)
 - “Presetting radio stations” (page 14)
 - “Falling asleep to music” and “Waking up to music” (page 23)
 - “Timer recording radio programs” (page 24)

There is no sound.

- Press **VOLUME +/-** or turn **VOLUME** control on the unit clockwise.
- Make sure the headphones are not connected.
- Check the speaker connections (page 6).
- There is no audio output during the **Rec Timer**.

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

- Place the speakers as symmetrically as possible.
- Connect the supplied speakers.

Sound lacks bass.

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

There is severe hum or noise.

- 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 cord.

The timer cannot be set.

- Set the clock again (page 8).

The timer does not function.

- Press **CLOCK/TIMER SELECT** on the remote to set the timer and light up “⊖ PLAY” or “⊖ REC” in the display (pages 24 and 25).
- Check the timer setting and set the correct time (pages 24 and 25).
- Cancel the **Sleep Timer** function (page 23).
- Make sure the clock is correctly set.

The remote does not function.

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

There is acoustic feedback.

- Reduce the volume.
- Except for European model, move the microphone away from 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.

CD/MP3 player

“MECHA ERR” appears and the CD/MP3 player does not function.

- Press I/⏻ to turn off the system, then disconnect and reconnect the power cord.

The disc tray does not open and “LOCKED” appears.

- Contact your Aiwa dealer or local authorized Aiwa service facility.

The disc tray does not close.

- Place the disc correctly.
- Always close the tray by pressing ▲ on the unit. Trying to press the tray closed with your fingers may cause problems with the player.

The disc does not eject.

- You cannot eject the disc during CD Synchro Recording. Press ■ to cancel the CD Synchro Recording, then press ▲ on the unit to eject the disc.
- Consult your nearest Aiwa dealer.

Play does not start.

- Open the disc tray and check whether a disc is loaded.
- Wipe the disc clean (page 33).
- Replace the disc.
- Place the disc that this system can play (page 4).
- Place the disc correctly.
- Place the disc in the tray with the label side up.
- Remove the disc and wipe away the moisture on the disc, then leave the system turned on for a few hours until the moisture evaporates.
- Press ▶ to start play.

The sound skips.

- Wipe the disc clean (page 33).
- Replace the disc.
- 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 both “PGM” and “SHUF” disappear to return to Normal Play.

MP3 audio track cannot be played back.

- Recording was not performed according to the ISO9660 Level 1 or Level 2 format or Joliet in the expansion format.
- The MP3 audio track does not have the extension “.MP3”.
- The data is not stored in MP3 format.
- Discs containing files other than MPEG 1 Audio Layer-3 files cannot be played.

MP3 audio tracks take longer to play back than others.

- After the system reads all tracks on the discs, playback may take more time than usual if:
 - the number of folders or tracks on the disc is very large.
 - the folder and track organization structure is very complex.

Title informations do not appear correctly.

- Use a disc that conforms with ISO9660 Level 1, Level 2 or Joliet in the expansion format.
 - The disc ID3 tag is not ver. 1 nor ver. 2.
 - Only up to 30 characters of ID3 tags are displayed.
 - The characters that can be displayed by this system are as follows:
 - Upper cases (A to Z)
 - Numbers (0 to 9)
 - Symbols (* < > * + , - / @ [\] _)
 Other characters may not be displayed correctly.
-

Tuner

Severe hum or noise/stations cannot be received. (“TUNED” or “STEREO” flashes in the display.)

- Set the proper band and frequency (page 14).
- Connect the antenna properly (page 6).
- 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.
- Try turning off surrounding electrical equipment.

A stereo FM program cannot be received in stereo.

- Press FM MODE repeatedly until “STEREO” appears.

Noise is heard while loading/removing a disc.

- Change the location of the AM antenna.
-

Tape deck

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

- The heads are dirty. Clean them (page 34).
- The record/playback heads are magnetized. Demagnetize them (page 34).

The tape does not erase completely.

- The record/playback heads are magnetized. Demagnetize them (page 34).

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

- The capstans or pinch rollers are dirty. Clean them (page 34).

Noise increases or the high frequencies are erased.

- The record/playback heads are magnetized. Demagnetize them (page 34).

The tape does not record.

- No cassette is loaded. Load a cassette.
 - The tab has been removed from the cassette. Cover the broken tab with adhesive tape (page 34).
 - The tape has wound to the end.
-

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

Use buttons on the unit for the operation.

- 1 Disconnect the power cord.
- 2 Reconnect the power cord.
- 3 Press I/⏻ to turn on the system.
- 4 Press ■, II and i-Bass at the same time.

The system is reset to the factory settings. You should set the settings you made, such as the preset stations, clock, and timer.

Note

You cannot reset the system to the factory settings in Power Saving Mode (page 25).

Messages

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

CD/MP3

NO DISC

There is no disc in the player.

NO STEP

All of the programmed tracks have been erased.

OVER

You have reached the end of the disc while pressing **▶▶** during playback or pause.

PUSH STOP

You pressed PLAY MODE during playback.

READING

The system is reading TOC information of the disc. Some buttons are not available.

STEP FULL

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

Tuner

COMPLETE

The preset operation ended normally.

TAPE

NO TAB

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

NO TAPE

There is no tape in the tape deck.

Timer

PUSH SELECT

You tried to set the clock or timer during timer operation.

SET CLOCK

You tried to select the timer when the clock is not set.

SET TIMER

You tried to select the timer when the Play Timer or Rec Timer are not set.

TIME NG

The Play Timer or Rec Timer start and end times are set to the same time.

Other

NOT USED

You pressed an invalid button.

Additional Information

Precautions

On operating voltage

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

On safety

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

On placement

- 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.
- Use caution when placing the unit or speakers on surfaces that have been specially treated (with wax, oil, polish, etc.) as staining or discoloration of the surface may result.

On heat buildup

- Although the system heats up during operation, this is not a malfunction.
- Place the system in a location with adequate ventilation to prevent heat buildup in the system.
- If you continuously use this system at a high volume, the cabinet temperature of the top, side and bottom rises considerably. To avoid burning yourself, do not touch the cabinet.
- To prevent a malfunction, do not cover the ventilation hole for the cooling fan.

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.

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. Should this occur, the system will not operate properly. Remove the disc and leave the system turned on for about an hour until the moisture evaporates.
- When you move the system, take out any disc.

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

Notes on discs

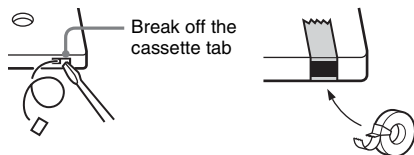
- Before playing, clean the disc with a cleaning cloth. Wipe the disc from the center out.
- Do not use solvents such as benzine, thinner, commercially available cleaners or anti-static spray intended for vinyl LPs.
- Do not expose the disc to direct sunlight or heat sources such as hot air ducts, nor leave it in a car parked in direct sunlight.
- When using discs that have glue or similar tacky substance on the label side of the disc or that used a special ink when the label was printed, there is a chance that the disc or label may become attached to parts inside this unit. When this occurs, it may not be possible to remove the disc, and may also cause this unit to malfunction. Be sure to check that the label side of the disc is not sticky before using. The following types of disc should not be used:
 - Rental or used discs with attached seals where the glue extends beyond the seal. The perimeter of the seal on the disc is tacky.
 - Discs that have labels printed using a special ink that feels tacky when touched.
- Discs with non-standard shapes (e.g., heart, square, star) cannot be played on this unit. Attempting to do so may damage the unit. Do not use such discs.

Cleaning the cabinet

Clean the cabinet, panel and controls with a soft cloth slightly moistened with mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent such as thinner, benzine or alcohol.

To save a tape permanently

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



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

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.

Cleaning the tape heads

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

Demagnetizing the tape heads

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

Specifications

Amplifier section

European model:

DBX-DS20

DIN power output (rated): 96 + 96 watts (6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference): 120 + 120 watts (6 ohms at 1 kHz, 10% THD)

Music power output (reference): 180 + 180 watts (6 ohms at 1 kHz, 10% THD)

DBX-DS10

DIN power output (rated): 52 + 52 watts (6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference): 65 + 65 watts (6 ohms at 1 kHz, 10% THD)

Music power output (reference): 90 + 90 watts (6 ohms at 1 kHz, 10% THD)

Russian model:

DBX-DS50

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)

Music power output (reference): 330 + 330 watts (6 ohms at 1 kHz, 10% THD)

DBX-DS30

DIN power output (rated): 120 + 120 watts (6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference): 150 + 150 watts (6 ohms at 1 kHz, 10% THD)

Music power output (reference): 240 + 240 watts (6 ohms at 1 kHz, 10% THD)

DBX-DS20

DIN power output (rated): 96 + 96 watts (6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference): 120 + 120 watts (6 ohms at 1 kHz, 10% THD)

Music power output (reference): 180 + 180 watts (6 ohms at 1 kHz, 10% THD)

DBX-DS10

DIN power output (rated): 52 + 52 watts (6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference):
65 + 65 watts (6 ohms at 1 kHz, 10% THD)

Music power output (reference):
90 + 90 watts (6 ohms at 1 kHz, 10% THD)

Other models:

DBX-DS55/DS50

The following measured at AC 120, 127, 220, 230, 240 V 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)

DBX-DS33/DS30

The following measured at AC 120, 127, 220, 230, 240 V 50/60 Hz

DIN power output (rated): 120 + 120 watts (6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference):
150 + 150 watts (6 ohms at 1 kHz, 10% THD)

DBX-DS22/DS20

The following measured at AC 120, 127, 220, 230, 240 V 50/60 Hz

DIN power output (rated): 96 + 96 watts (6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference):
120 + 120 watts (6 ohms at 1 kHz, 10% THD)

DBX-DS11/DS10

The following measured at AC 120, 127, 220, 230, 240 V 50/60 Hz

DIN power output (rated): 52 + 52 watts (6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference):
65 + 65 watts (6 ohms at 1 kHz, 10% THD)

Inputs

AUDIO IN (stereo mini jack):
voltage 250 mV,
impedance 47 kilohms

MIC (phone jack) (except for European model):
sensitivity 1 mV,
impedance 10 kilohms

Outputs

PHONES (stereo mini jack):
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 Diode Properties Emission duration: continuous
Laser Output: Less than 44.6 μ W
(This output is the value measurement 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 (\pm 0.5 dB)
Signal-to-noise ratio More than 90 dB
Dynamic range More than 90 dB

Tape deck section

Recording system 4-track 2-channel, stereo
Frequency response 50 – 13,000 Hz (\pm 3 dB), using Sony TYPE I cassettes
Wow and flutter \pm 0.15% W. Peak (IEC)
0.1% W. RMS (NAB)
 \pm 0.2% W. Peak (DIN)

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range 87.5 – 108.0 MHz (50 kHz step)
Antenna FM lead antenna
Antenna terminals 75 ohms unbalanced
Intermediate frequency 10.7 MHz

AM tuner section

Tuning range
Pan-American models: 530 – 1,710 kHz (with the tuning interval set at 10 kHz)
531 – 1,710 kHz (with the tuning interval set at 9 kHz)
European and Russian models: 531 – 1,602 kHz (with the tuning interval set at 9 kHz)

Other models:	530 – 1,710 kHz (with the tuning interval set at 10 kHz) 531 – 1,602 kHz (with the tuning interval set at 9 kHz)
Antenna	AM loop antenna
Antenna terminals	External antenna terminal
Intermediate frequency	450 kHz

Speaker

SSX-JDS55 for DBX-DS55

SSX-JDS50 for DBX-DS50

Speaker system	3-way, 3-unit, bass-reflex type
Speaker units	
Woofer:	20 cm, cone type
Squawker:	8 cm, cone type
Tweeter:	2.5 cm, horn type
Nominal impedance	6 ohms
Dimensions (w/h/d)	Approx. 255 × 480 × 335 mm
Mass	Approx. 8.0 kg net per speaker

SSX-JDS33 for DBX-DS33

SSX-JDS30 for DBX-DS30

Speaker system	3-way, 3-unit, bass-reflex type
Speaker units	
Woofer:	18 cm, cone type
Squawker:	8 cm, cone type
Tweeter:	2.5 cm, horn type
Nominal impedance	6 ohms
Dimensions (w/h/d)	Approx. 235 × 440 × 330 mm
Mass	Approx. 6.7 kg net per speaker

SSX-JDS22 for DBX-DS22

SSX-JDS20 for DBX-DS20

Speaker system	2-way, 2-unit, bass-reflex type
Speaker units	
Woofer:	18 cm, cone type
Tweeter:	2.5 cm, horn type
Nominal impedance	6 ohms
Dimensions (w/h/d)	Approx. 235 × 375 × 290 mm
Mass	Approx. 5.0 kg net per speaker

SSX-JDS11 for DBX-DS11

SSX-JDS10 for DBX-DS10

Speaker system	2-way, 2-unit, bass-reflex type
Speaker units	
Woofer:	16 cm, cone type
Tweeter:	5 cm, cone type
Nominal impedance	6 ohms
Dimensions (w/h/d)	Approx. 215 × 365 × 230 mm
Mass	Approx. 3.6 kg net per speaker

General

Power requirements

European and Russian models:

230 V AC, 50/60 Hz

Australian model: 230 – 240 V AC, 50/60 Hz

Argentine model: 220 V AC, 50/60 Hz

Mexican model: 127 V AC, 60 Hz

Other models:

DBX-DS55/DS50/DS33/DS30/DS22/DS20:

120 V, 220 – 230 V or

240 V AC, 50/60 Hz

Adjustable with voltage selector

DBX-DS11/DS10:

120 V, 220 V or

230 – 240 V AC, 50/60 Hz

Adjustable with voltage selector

Power consumption

European model:

DBX-DS20: 198 watts

0.25 watts (at the Power Saving Mode)

DBX-DS10:

125 watts

0.25 watts (at the Power Saving Mode)

Other models:

DBX-DS55/DS50: 160 watts

DBX-DS33/DS30: 245 watts

DBX-DS22/DS20: 198 watts

DBX-DS11/DS10: 125 watts

Dimensions (w/h/d) (excl. speakers):

Approx. 230 × 365.5 × 409 mm

Mass (excl. speakers)

European model:

DBX-DS20: Approx. 9.1 kg

DBX-DS10: Approx. 7.8 kg

Other models:

DBX-DS55/DS50: Approx. 9.1 kg

DBX-DS33/DS30: Approx. 9.1 kg

DBX-DS22/DS20: Approx. 9.1 kg

DBX-DS11/DS10: Approx. 7.8 kg

Supplied accessories	Remote Commander (1) R6 (Size AA) batteries (2) AM loop antenna (1) FM lead antenna (1) Speaker pads (8)
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Design and specifications are subject to change without notice.



- Standby power consumption: 0.3 W
- Halogenated flame retardants are not used in the certain printed wiring boards.
- Lead-free solder is used for soldering certain parts.
- Halogenated flame retardants are not used in cabinets.

Remote control

ALPHABETICAL ORDER

A - E

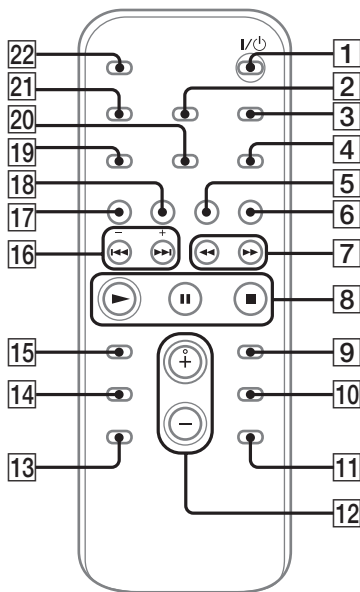
- CD **18** (9, 12)
- CLEAR **15** (13)
- CLOCK/TIMER SELECT **2** (24, 25)
- CLOCK/TIMER SET **3** (8, 23, 24)
- DISC SKIP **10** (10, 12)
- DISPLAY **21** (16, 25, 26)
- ENTER **9** (8, 12, 14, 23, 24)
- EQ **14** (20)

F - Z

- FM MODE **4** (16)
- FOLDER + **11** (10, 12, 18)
- FOLDER - **13** (10, 12, 18)
- FUNCTION **6** (9, 12, 14, 15, 17, 28)
- PLAY MODE **20** (10, 12, 17)
- REPEAT **4** (12)
- SLEEP **22** (23)
- TAPE **17** (17)
- TUNER/BAND **5** (14, 15)
- TUNER MEMORY **19** (14)
- TUNING MODE **20** (14, 15)
- VOLUME +/- **12** (23)

BUTTON DESCRIPTIONS

- I/⏻ (power) **1** (7, 24)
- ◀▶ (rewind/fast forward) **7** (10, 17)
- ▶ (play) **8** (10, 17)
- ⏸ (pause) **8** (10, 17)
- (stop) **8** (10, 17)
- +/- (tuning) **16** (14)
- ◀▶ (go back/go forward) **16** (8, 10, 23)



Additional Information

