

Mini Hi-Fi Component System

Operating Instructions



MHC-WZ7AV

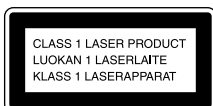
WARNING

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 label is located on the rear exterior.

The following caution label is located inside the apparatus.



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

Except for European model



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.

This system incorporates Dolby Pro Logic Surround System*.

* Manufactured under license from Dolby Laboratories.




"Dolby", "Pro Logic", and the double-D symbol are trademarks of Dolby Laboratories.

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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 CD player having the same or similar names.
- The following symbols are used in this manual.

Symbol	Meaning
	Functions that can be used with VIDEO CDs
	Functions that can be used with audio CDs
	Functions that can be used with MP3

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	Contents
VIDEO CDs		Audio + Video
Audio CDs		Audio
CD-R/CD-RW (audio data)	 	Audio
CD-R/CD-RW (MP3 files)	   	Audio

Discs that this system cannot play

- CD-ROMs
- CD-Rs/CD-RWs other than those recorded in the following formats:
 - video CD format
 - music CD format
 - MP3 format that conforms to ISO9660* Level 1/Level 2 and Joliet
- A disc that has a non-standard shape (e.g., card, heart).
- A disc with paper or stickers on it.
- A disc that has the adhesive, cellophane tape, or a sticker still left on it.

* 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.

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.
- CD-R and CD-RW discs recorded in packet write format are not supported.
- CD-R and CD-RW discs that have not been finalized (processing to allow play by a normal CD player) cannot be played.
- The system may be unable to play MP3 format files that do not have the extender “.MP3”.
- Attempting to play non-MP3 format files that have the extender “.MP3” may result in noise or malfunction.

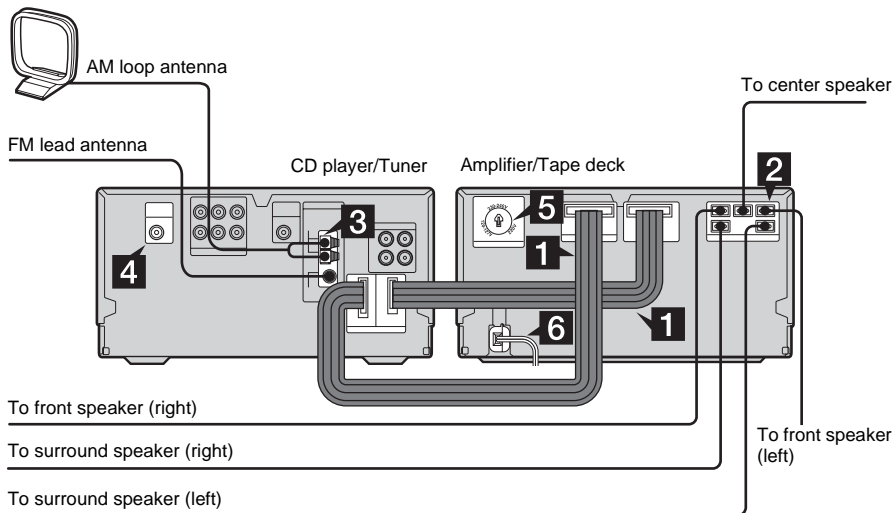
Music discs encoded with copyright protection technologies

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.

Getting Started

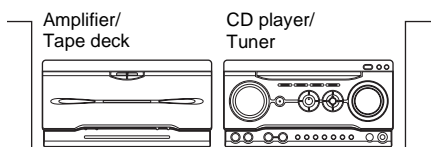
Hooking up the system

Perform the following procedures **1** to **7** to hook up your system using the supplied cords and accessories. Middle Eastern model is used for illustration purpose.



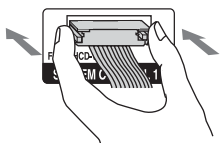
Preparation

Place the components as shown below.



1 Connect the system control cables to the SYSTEM CONTROL connectors on the tape deck.

Connect to the same numbered jack in the order indicated on the rear panel.

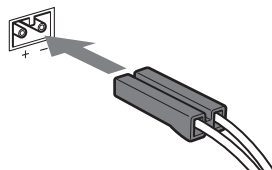


Note

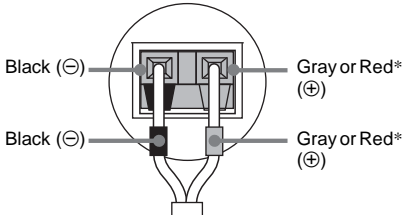
The system cable is used to send signals and electricity between the components for interlinked operation. Be sure to insert the connector horizontally until it clicks into place. Otherwise the system will not operate correctly.

2 Connect the speakers.

Connect the appropriate speaker cords from the speaker terminals to the corresponding SPEAKER terminals on the amplifier.



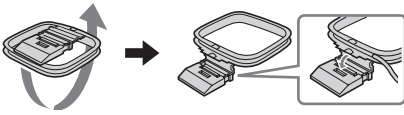
Speakers



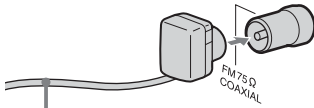
* Gray: Front speakers
Red: Surround speakers and Center speaker

3 Connect the FM and AM antennas.

Set up the AM loop antenna, then connect it.



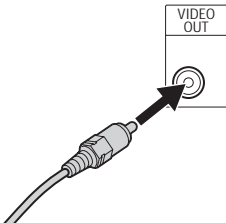
AM loop antenna



Extend the FM lead antenna horizontally

Note

Keep the antennas away from the speaker cords.

4 Connect the video input jack of your TV to the VIDEO OUT jack with the supplied video cable.

When using a TV

Turn on the TV and select the video input so you can view the pictures from this system.

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

* Saudi Arabian model: 120 – 127 V

6 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).

7 Set the color system to PAL or NTSC depending on the color system of your TV while the power is off.

Use buttons on the CD player for the operation.

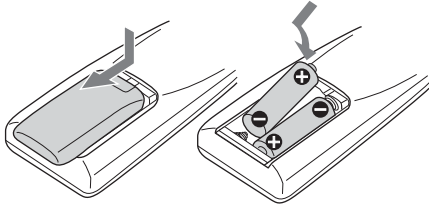
The color system of your TV

The color system of your TV	Do this
AUTO (factory setting)	Press I/⏻ while holding down ◀▶. If your TV automatically changes the color system according to the input signal, the system is set to AUTO.
NTSC	Press I/⏻ while holding down +▶▶▶▶. The system is set to NTSC.
PAL	Press I/⏻ while holding down ◀◀◀◀-. The system is set to PAL.

Note

When you play back a VIDEO CD recorded in a different color system from the one you set to the system, the picture image may be distorted.

Inserting two size AA (R6) 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.

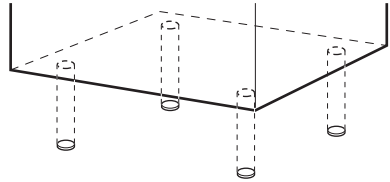
Tip

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.

Front speaker (Left (4)/Right (4))
Surround speaker (Left (4)/Right (4))
Center speaker (4)



When carrying this system

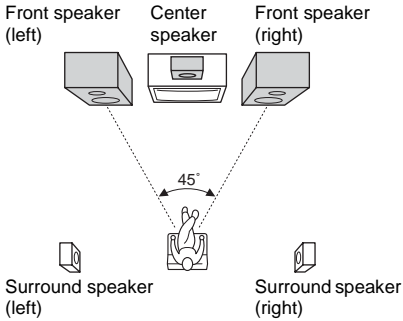
Perform the following procedure to protect the CD mechanism.

Use buttons on the CD player for the operation.

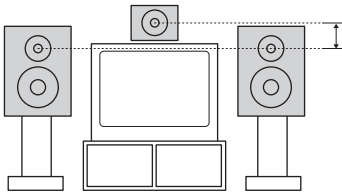
- 1 Make sure that the disc is removed from the CD player.
- 2 Press CD.
- 3 While holding down ■, move control lever to ↑ until "LOCK" appears.
- 4 Release ↑ first, then release ■.
- 5 Unplug the power cord.

Positioning the speakers

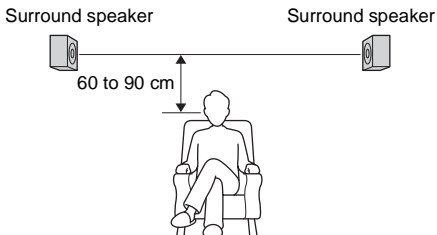
- 1 Place the front speakers at an angle of 45 degrees from your listening position.



- 2 Place the center speaker at about the same height as the front speakers. Align the center speaker with the front speakers or place it slightly behind the front speakers.



- 3 Place the surround speakers facing each other at about 60 to 90 cm above your listening position.



Note

Do not place the surround speakers on top of a TV. This may cause distortion of the colors in the TV screen.

Adjusting the speaker volume of each speaker (Test Tone)

To enjoy Dolby Pro Logic Surround sound, adjust the volume of each speaker using the test tone that the system provides.

- 1 Press **PRO LOGIC** when the system is on.
The "PRO LOGIC" indicator lights up.
- 2 Press **TEST TONE**.
The test tone is heard from the speakers in the following order.
LEFT (front left) → CENTER (center) → RIGHT (front right) → SURR (surround) → ...
- 3 From your listening position, adjust the volume until the volume level of the test tone from each speaker sounds the same.

To adjust	Do this
the volume of the center speaker	Press CENTER LEVEL +/- .
the volume of the surround speakers	Press SURROUND LEVEL +/- .

- 4 From your listening position, adjust the balance.

To adjust	Do this
the balance between the front left and front right speakers	Press ← or → while "LEFT", "CENTER" or "RIGHT" appears.
the balance between the surround left and surround right speakers	Press ← or → while "SURR" appears.

- 5 Press **TEST TONE** when you are done adjusting.

The test tone is turned off.

Note

The test tone feature works only for Dolby Pro Logic Surround sound.

Tip

If you press **VOL +/-** (or turn **VOLUME** on the CD player) all the speaker volume changes.

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 →.
- 5** Press ↑ or ↓ repeatedly to set the minute.
- 6** Press ENTER.

The clock starts working.

To adjust the clock

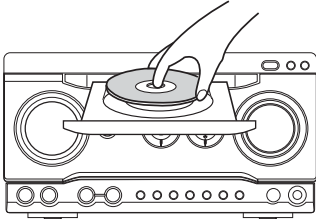
- 1** Press CLOCK/TIMER SET.
- 2** Press ↑ or ↓ repeatedly to select "CLOCK SET?", then press ENTER.
- 3** Do the same procedures as step 3 to 6 above.

VIDEO CD/CD/MP3 – Play

Loading a disc

Use buttons on the CD player for the operation.

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



- 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.
- When you play a 8 cm disc, place it on the inner circle of the tray.

Playing a disc

— Normal Play/Shuffle Play

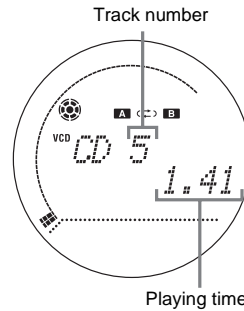


This system lets you play VIDEO CDs*, audio CDs and discs with MP3 audio tracks.

Before playing a VIDEO CD, turn on your TV and select the video input. Refer to the operating instructions supplied with your TV if you need help.

* You can play both VIDEO CDs without PBC functions (Ver. 1.1) and VIDEO CDs with PBC functions (Ver. 2.0).

Example: When a VIDEO CD is loaded











- 1 Press **CD**.

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

Select	To play
No display (Normal Play)	The tracks on the disc in original order.
ALBM (Normal Play)	All MP3 audio tracks in the album on the disc you have selected in original order. When playing a non-MP3 disc, Album Play performs the same operation as Normal play.
SHUF (Shuffle Play)	All tracks on the disc in random order.
ALBM SHUF (Shuffle Play)	The MP3 audio tracks in the album on the disc you have selected in random order. When playing a non-MP3 disc, Album Shuffle Play performs the same operation as Shuffle 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 16).

3 Press .

Other operations

To	Do this
Stop play	Press  .
Pause	Press  . *1 Press again to resume play.
Select a track *2	Press  or  repeatedly during play or pause.
Select an album of MP3	Press ALBUM – or + repeatedly after step 2.
Find a point in a track or scene *3 (Lock Search Function)	Press  or  during play. At the desired point, press  to stop searching and start playback. For VIDEO CDs only, each time you press the button, speed changes cyclically as follows: 1 (slower than 2) → 2 (normal) → 3 (faster than 2)
Remove a disc	Press  on the CD player.

*1 For VIDEO CDs, there may be some disturbance in the video image.

*2 Only when setting the PBC function to off or when playing VIDEO CDs without PBC functions (Ver. 1.1).

*3 For discs with MP3 audio tracks, you cannot search between multiple tracks. Also, the time may not be displayed correctly for some tracks.

Notes

- You cannot change the play mode during play.
- 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 albums 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 albums 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 albums on a disc that has MP3 audio tracks.
- An album that does not include an MP3 audio track is skipped.
- Maximum album number: 256 (including root folder)
- The system can only recognize up to 512 (MP3 audio tracks and albums) on a single disc.
- 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.

Tip

When disc access takes a long time, set “CD POWER ON” by CD power manage function (page 19).

Resuming playback from the point you stopped the disc

— Resume Play

This system memorizes the point where you stopped the VIDEO CD so you can resume from that point.

Resume Play is not available for an audio CD and a disc with MP3 audio tracks.

1 While playing a VIDEO CD, press ■ to stop playback.

“RESUME” appears on your TV screen. If “RESUME” does not appear, Resume Play is not available.

2 Press ◀▶.

The CD player starts playback from the point you stopped the VIDEO CD in step 1.

Notes

- You cannot perform Resume Play during Disc Digest (page 17), Shuffle Play or Program Play.
- Depending on where you stopped the VIDEO CD, the system may resume playback from a different point.
- Resume play is canceled when:
 - you press the number buttons, PLAY MODE, NEXT or ▶▶.
 - you disconnect the power cord.
 - you turn off the system.
 - you open the disc tray.
 - you change the function to tuner when “CD POWER OFF” is selected (page 19).

Tip

To view from the beginning of the VIDEO CD, press ■ in stop mode, then press ◀▶.

To play a track by entering the track number

You can also select the track you want using the remote during Normal Play.

Press the number button(s).

To enter a track number over 10

- 1 Press >10.
- 2 Enter the corresponding digits for the same number of “-” flashing in the display.
To enter 0, press 10/0.

Example:

To enter track number 30, press >10, then press 3 and 10/0.

Playing VIDEO CDs with PBC functions (Ver. 2.0)

— PBC Play



You can use PBC* menus on your TV screen to enjoy the disc's interactive software. The menu format and structure may differ depending on each disc.

* PBC: Playback Control

- 1 Press CD.
- 2 Press ◀▶ to start playing a VIDEO CD with PBC functions (Ver. 2.0).
The PBC menu appears on the TV screen.
- 3 Press the number button(s) to enter the item number you want.
- 4 Continue playback according to the instructions on the menus to enjoy interactive playback.

Refer to the operating instructions supplied with the disc, as the operating procedure may differ according to the VIDEO CD.

Other operations

To	Do this
Stop play	Press ■.
Go to the next menu page or scene	Press NEXT.
Go back to the previous menu page or scene	Press PREV.
Go back to the previous menu	Press RETURN ↵.


To cancel playback with PBC functions (Ver. 2.0)

- 1 Press ◀◀ or ▶▶ in stop mode to select a track.
The “PBC OFF” indicator lights up.
- 2 Press ◀▶.

Playback starts from the selected track. Still images, such as the menu screens, will not be shown.

To return to PBC playback, press ■ in stop mode, then press ◀▶.

Tips

- When “” appears on the TV screen, you have pressed an invalid button.
- When you press NEXT during menu playback or while playing moving pictures, the next scene on the disc appears. Also refer to the instructions supplied with the disc.
- You can cancel playback with PBC functions (Ver. 2.0) by pressing any number button in stop mode. The disc is automatically played in Normal Play mode.

Playing repeatedly

— Repeat Play



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

Press REPEAT during playback or in stop mode until “REP” or “REP1” appears.

REP: For all the tracks on the disc, or all the tracks in the album up to five times.

REP1: For a single track only.

To cancel Repeat Play

Press REPEAT repeatedly until both “REP” and “REP1” disappear.

Notes

- When you select “REP1”, that track is repeated endlessly until “REP1” is canceled.
- You cannot select “REP1” during playback of VIDEO CDs with PBC functions (Ver. 2.0).

Creating your own program

— Program Play

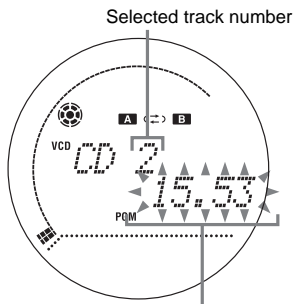


You can make a program of up to 25 tracks in the order you want to play them.

You can synchro record the programmed tracks onto a cassette tape (page 22).

- 1 Press CD.**
- 2 Press PLAY MODE in stop mode repeatedly until “PGM” appears.**
- 3 Press ◀◀ or ▶▶ repeatedly until the desired track number appears.**

When programming an MP3, press ALBUM – or + to select album, then press ◀◀ or ▶▶ repeatedly until the desired track number appears.



Total playing time (including selected track)

- 4 Press ENTER.**
The track is programmed.
The program step number appears, followed by the total playing time.
- 5 To program additional tracks, repeat steps 3 and 4.**
- 6 Press ◀▶.**
Program Play starts.

Other operations

To	Do this
Cancel Program Play	Press PLAY MODE in stop mode repeatedly until “PGM” disappears.
Check the program	Press ◀◀ or ▶▶ repeatedly during play.
Clear a track from the end	Press CLEAR in stop mode.

Tips

- The program you made remains after Program Play finishes. To play the same program again, press CD, then press ◀▶. However, the program is cleared when you open the disc tray.
- “- - - -” appears when the total VIDEO CD/CD program time exceeds 100 minutes, or when you select a VIDEO CD/CD track whose number is 21 or over, or when you select an MP3 audio track.

Locating a specific part of a VIDEO CD

— Time Search/Disc Digest



The TV screen must be on to use these functions.

Locating by elapsed time from the beginning of the disc

— Time Search

- 1 Press SPECIAL MENU in stop mode.**
- 2 Press 1 to select “1) TIME SEARCH”.**
- 3 Press the number buttons (1 – 10/0) to enter the time (in minutes) for the section you want.**

To enter 10 minutes: Press 1 and 10/0.
The selected elapsed time appears on the TV screen.
To reenter the time: Press CLEAR and then press the number buttons again.
- 4 Press ◀▶.**

Playback starts from the selected time.

Locating the desired track

— Disc Digest

You can select the track you want by viewing the first frame of each track. 9 different tracks can be displayed on the TV screen at one time.

- 1 Press SPECIAL MENU in stop mode.**
- 2 Press 2 to select “2) DISC DIGEST”.**

The first frame of tracks 1 through 9 on the current disc are displayed.
- 3 Press the number buttons (1 – 9) to select the track you want.**

To display the next 9 tracks

Press NEXT. The first frame of tracks 10 through 18 are displayed.

When there are more tracks in the disc, “▶▶I” appears in the upper right corner of the TV screen.

To display previous tracks, press PREV.

Note

If you press SPECIAL MENU to active Time Search or Disc Digest in Program or Shuffle Play mode, it changes to Normal Play mode.

Presetting radio stations

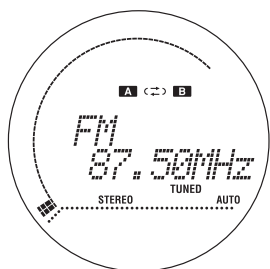
You can preset up to 20 FM stations and 10 AM stations. You can then tune in any of those stations simply by selecting the corresponding preset number.

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** repeatedly to select “FM” or “AM”.
- 2 Press **TUNING MODE** repeatedly until “AUTO” appears.
- 3 Press **TUNING +/-** (or **◀▶** on the CD player).

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.

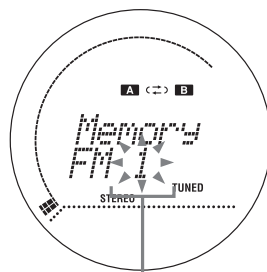


If “TUNED” does not appear and the scanning does not stop

Set the frequency of the desired radio station as described in steps 2 and 3 of “Manual tuning preset”.

4 Press **TUNER MEMORY**.

A preset number flashes.



Preset number

- 5 Press **PRESET +/-** (or **◀▶** on the CD player) repeatedly to select the desired preset number.
- 6 Press **ENTER** (or **PUSH ENTER** on the CD player).
“Complete!” appears in the display.
- 7 Repeat steps 1 through 6 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** repeatedly to select “FM” or “AM”.
- 2 Press **TUNING MODE** repeatedly until “PRESET” and “AUTO” disappear.
- 3 Press **TUNING +/-** (or **◀▶** on the CD player) repeatedly to tune in the desired station.
- 4 Press **TUNER MEMORY**.
A preset number flashes.
- 5 Press **PRESET +/-** (or **◀▶** on the CD player) repeatedly to select the desired preset number.
- 6 Press **ENTER** (or **PUSH ENTER** on the CD player).
- 7 Repeat steps 1 through 6 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” (page 18).
Set another station to the existing preset number	Start over from step 1. After step 4, press PRESET \rightarrow / \leftarrow (or \lll / \ggg) on the CD player) repeatedly to select the preset number you want to store the other station.

To improve tuner reception

When tuner reception is poor, set CD player power off by CD power manage function.

CD power is factory set to on.

Use buttons on the CD player for the operation.

- 1 Press CD.
- 2 Press I/⏻ to turn off the system.
- 3 Press I/⏻ while holding ■. “CD POWER OFF” appears.

To set the CD power on

Repeat the procedure above and “CD POWER ON” appears.

Note

When “CD POWER OFF” is selected, disc access time is increased.

To change the AM tuning interval (except for Middle Eastern model)

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 ■, press I/⏻. When you change the interval, all the AM preset stations are erased. To reset the interval, repeat the same procedure. Use buttons on the CD player for the operation.

Tips

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

Listening to the radio

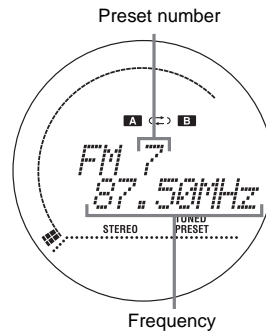
You can listen to a radio station either by selecting a preset station, or by manually tuning in the station.

Listening to a preset station

— Preset Tuning

Preset radio stations in the tuner’s memory first (see “Presetting radio stations” on page 18).

- 1 Press TUNER/BAND repeatedly to select “FM” or “AM”.
- 2 Press TUNING MODE repeatedly until “PRESET” appears.
- 3 Press PRESET \rightarrow / \leftarrow (or \lll / \ggg) on the CD player) repeatedly to select the desired preset station.



Listening to non-preset radio station

— Manual Tuning

- 1** Press **TUNER/BAND** repeatedly to select “FM” or “AM”.
- 2** Press **TUNING MODE** repeatedly until “PRESET” and “AUTO” disappear.
- 3** Press **TUNING +/-** (or **◀/▶** on the CD player) repeatedly to tune in the desired station.

Tips

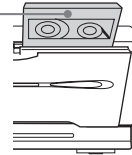
- To improve broadcast reception, adjust the supplied antennas, or connect a commercially available external antenna.
- When an FM stereo program has static noise, press **FM MODE** repeatedly until “MONO” appears. There will be no stereo effect, but the reception will improve.
- Press **TUNING MODE** repeatedly until “AUTO” appears in step 2 above, then press **TUNING +/-** (or **◀/▶** on the CD player). The frequency indication changes and scanning stops when the system tunes in a station (Automatic Tuning).
- To record the radio programs, use manual recording (pages 23 and 29).

Tape – Play

Loading a tape

- 1** Press **A ▲** or **▲ B** on the tape deck.
- 2** Load a recorded/recordable tape into the cassette holder.

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

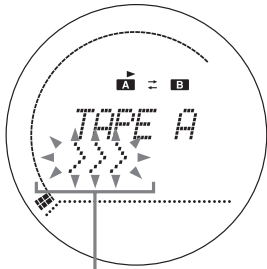


Playing a tape

You can use TYPE I (normal) tape.

- 1 Load a tape.**
- 2 Press TAPE A/B.**
- 3 Press DIRECTION repeatedly to select “←→” to play one side. Select “↔” to play both sides. Select “RELAY” (Relay Play)* to play both decks in succession.**
- 4 Press ◀▶.**

The tape starts playing.



* Relay play always follow this cyclic sequence:
Deck A (front side) → Deck A (reverse side) →
Deck B (front side) → Deck B (reverse side)

Other operations

To	Do this
Play the reverse side	Press ◀▶ again during play.
Stop play	Press ■.
Pause	Press ■. Press again to resume play.
Fast-forward or rewind	Press ◀◀ or ▶▶ in stop mode.
Search for the beginning of the next track (AMS)*	Press ▶▶ during play. Each time you press the button, the search direction, + (forward), and number of tracks being skipped (1 to 9) appear.
Search for the beginning of the current track or previous track (AMS)*	Press ◀◀ during play. Each time you press the button, the search direction, - (back), and number of tracks being skipped (1 to 9) appear.
Remove a tape	Press A ▲ or ▲ B on the tape deck.

* 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.
- When the system is placed near a television.

Tip

If you select “↔” or “RELAY”, the deck stops automatically after repeating the sequence five times.

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 CD player for the operation.

- 1 Load a recordable tape into deck B.**
- 2 Press TAPE A/B to select deck B, then press ◀▶ repeatedly to select recording side. And press ■ to stop playback.**
- 3 Press CD and load a disc you want to record.**
- 4 Press CD SYNC.**
Deck B stands by for recording.
“REC” flashes.
- 5 Press DIRECTION repeatedly to select “→” to record on one side. Select “↔” (or “RELAY”) to record on both sides.**
- 6 Press ● START.**
Recording starts.

To stop recording

Press ■.

To record a disc by specifying track order

You can record only your favorite CD tracks using Program Play. After steps 3, perform steps 2 to 5 of “Creating your own program” (page 16).

Also, you can check the required tape length for recording a disc. Press PROGRAM EDIT on the remote after you have loaded a CD in CD function. The required tape length for the currently selected disc appears, followed by the total playing time for side A and side B respectively (Tape Select Edit).

Note

You cannot use Tape Select Edit for discs containing over 20 tracks or MP3 audio tracks.

Tips

- When you record on both sides, be sure to start from the front side. If you start from the reverse side, recording stops at the end of the reverse side.
- If you select both sides recording and the tape reaches the end of the front side part-way through a track, the entire track is recorded again from the beginning of the reverse side.
- When the PBC function is on, change the setting to off and then start recording.

Recording on a tape manually

— Manual Recording

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

You can also record from connected components (see “Hooking up optional components” on page 34).

Use buttons on the CD player for the operation.

- 1 Load a recordable tape into deck B.**
- 2 Press TAPE A/B to select deck B, then press ◀▶ repeatedly to select recording side. And press ■ to stop playback.**
- 3 Press CD, TAPE A/B, TUNER/BAND or MD (VIDEO)/DVD to select the desired source to record.**
 - CD: To record from this system’s CD player.
 - TAPE: To record from this system’s tape deck A.
 - TUNER: To record from this system’s tuner.
 - MD or VIDEO: To record from the optional component connected to MD (VIDEO) IN jacks.
 - DVD: To record from the optional DVD player connected to DVD INPUT jacks.
- 4 Press ● START.**

Deck B stands by for recording.
“REC” flashes.
- 5 Press DIRECTION repeatedly to select “→” to record on one side. Select “↔” (or “RELAY”) to record on both sides.**
- 6 Press ● START, then start playing the desired source to record.**

Recording starts.

Other operations

To	Do this
Stop recording	Press ■.
Pause recording	Press ● START. Press again to resume recording.

Notes

- You cannot listen to other sources while recording.
- If TAPE B is selected in step 3, silence is recorded.

Tips

- For recording from the radio:

If noise is heard while recording from the radio, move the respective antenna to reduce the noise.
- 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.

Sound Adjustment

Adjusting the sound



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

The GROOVE setting is ideal for music sources, and the V-GROOVE setting is ideal for video sources (movies, etc.).

Press GROOVE.

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

GROOVE ON → V-GROOVE ON →
GROOVE OFF (off)

Selecting the sound effect



Press **MUSIC MODE** or **MOVIE MODE** repeatedly to select the preset you desire.

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

To cancel the effect

Press **EFFECT** repeatedly until “EFFECT OFF” appears.

Sound effect options

MUSIC MODE

Effect

ROCK	Standard music sources
POP	
JAZZ	
DANCE	
SOUL	
CLASSIC	
P FILE	

MOVIE MODE

Effect

ACTION	Soundtracks and special listening situations
DRAMA	
MUSICAL	

Selecting the surround effect



Press SURROUND.

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

SURROUND ON → HALL → THEATER →
ENHANCED THEATER → SURROUND
OFF (off)

HALL: Reproduces the acoustics of a concert hall.

THEATER: Reproduces the acoustics of a movie theater.

ENHANCED THEATER:
Reproduces the acoustics of a large movie theater.

Adjusting the graphic equalizer and storing

— Personal file



You can adjust the sound by raising or lowering the levels of specific frequency ranges, then store a personal file (P FILE) in the memory. Before operating, first select the basic audio emphasis you want for your sound.

Use buttons on the CD player for the operation.

1 Press EQ EDIT.

The first parameter appears.

2 Move control lever to ← or → to select the frequency range, and then move control lever to ↑ or ↓ to select the gain (dB).

3 Press PUSH ENTER.

“P FILE” appears.

This setting is automatically stored as a personal file, and the SURROUND setting is also stored at the same time.

The setting is overwritten each time you press PUSH ENTER.


Other operations

To	Do this
Call up a personal file	Press MUSIC MODE repeatedly until “P FILE” appears.
Cancel a personal file	Press EFFECT repeatedly until “EFFECT OFF” appears.

Note

When the “” indicator is displayed, EQ EDIT is not available.

Enjoying Dolby Pro Logic Surround sound

You can enjoy the Dolby Pro Logic Surround sound of Dolby Surround-encoded ( **DOLBY SURROUND**) videos and TV programs. Complete the setup and speaker adjustments first (see “Positioning the speakers” on page 9).

1 Press PRO LOGIC.

The “PRO LOGIC” indicator lights up.

2 Play a program source.

To turn off the Dolby Pro Logic Surround sound

Press PRO LOGIC until the indicator goes off.

Notes

- You cannot use the Dolby Pro Logic Surround sound and Surround Menu functions at the same time.
- When you record the sound, turn off the Dolby Pro Logic Surround sound.
- The audio emphasis setting will be canceled when you turn on the Dolby Pro Logic Surround sound.

Singing along: Karaoke



You can sing along by turning down the singer’s voice. You need to connect an optional microphone.

1 Turn MIC LEVEL on the CD player to MIN to turn down the microphone control level.


2 Connect an optional microphone to the microphone jack.

3 Press KARAOKE/MPX repeatedly to obtain the karaoke effect you desire.

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

KARAOKE PON → MPX L → MPX R
→ KARAOKE OFF*

* Karaoke mode is canceled.

The “” indicator appears in the display when a karaoke mode is activated. To sing karaoke by decreasing the vocal level of the music source, select “KARAOKE PON”.

To sing karaoke of multiplex CD, select “MPX L” or “MPX R”.

4 Start playing the music.

5 Adjust the microphone volume by turning MIC LEVEL on the CD player.

Other operations

To	Do this
Use VIDEO CDs	Turn on your TV and select the video input.
Cancel karaoke mode	Turn MIC LEVEL on the CD player to MIN and disconnect the microphone from the microphone jack, then press KARAOKE/MPX repeatedly until "🎤" disappears.
Adjust the microphone echo	Turn ECHO LEVEL on the CD player to adjust the echo effect. To cancel the echoing, turn ECHO LEVEL on the CD player to MIN.
Adjust the pitch of the music*	Press KEY CONTROL #/b to suit your vocal range. Adjust the key higher or lower in 13 halftone steps (b6 – #6).

* This function is not available on MP3 audio tracks.

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.
- When the disc tray opens, key control setting is canceled.
- With some songs, vocals may not be canceled when you select "KARAOKE PON".
- If you press MUSIC MODE, MOVIE MODE, GROOVE or EFFECT or recall a sound effect, the karaoke mode is canceled.

Mixing and recording sounds

Use buttons on the CD player for the operation.

- 1 Do the procedure for "Singing along" (steps 1 through 5). Then, load a recordable tape in deck B.**
- 2 Press the function button of the source you want to record (e.g., CD).**
When you want to record from TAPE A, press TAPE A/B repeatedly until TAPE A is selected.
- 3 Press ● START.**
Deck B stands by for recording. "REC" flashes.
- 4 Press DIRECTION repeatedly to select "→" to record on one side. Select "↔" (or "RELAY") to record on both sides.**
- 5 Press ● START.**
- 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 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:

OFF → AUTO* → 90min → 80min → 70min
→ ... → 10min

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

Other operations

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

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

Tip

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

Waking up to music

— Daily Timer

You can wake up to music at a preset time. Make sure you have set the clock (see "Setting the clock" on page 10).

- 1 Press CD, TAPE A/B or TUNER/BAND to select the desired source to play.**
 - CD: Load a disc. To start from a specific track, make a program (see "Creating your own program" on page 16).
 - TAPE: Load a tape.
 - TUNER: Tune in the preset radio station (see "Listening to the radio" on page 19).
- 2 Press VOL +/- (or turn VOLUME on the CD player) to adjust the volume.**
- 3 Press CLOCK/TIMER SET.**
 "DAILY SET?" appears.
- 4 Press ENTER.**
 "ON" appears and the hour indication flashes.
- 5 Set the time to start playing.**
 Press ↑ or ↓ repeatedly to set the hour, then press →.
 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:

→ TUNER ← CD PLAY ←
→ TAPE PLAY ←
- 8 Press ENTER.**
 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
Check the setting	<ol style="list-style-type: none">1 Press CLOCK/TIMER SELECT.2 Press ↑ or ↓ repeatedly until "DAILY SELECT?" 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 Daily Timer and Timer recording at the same time.
- If you use the Daily Timer and the Sleep Timer at the same time, the Sleep Timer has priority.
- If the system is on at the preset time, the Daily Timer will not be activated.
- You cannot use the optional component connected to MD (VIDEO) IN jacks as the sound source for Daily Timer.

Tip

The system turns on 15 seconds before the preset time.

Timer recording radio programs

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 18) and set the clock (see "Setting the clock" on page 10).

- 1 Tune in the preset radio station (see "Listening to a preset station" on page 19).**
- 2 Press CLOCK/TIMER SET.**
"DAILY SET?" appears.
- 3 Press **↑** or **↓** repeatedly to select "REC SET?", then press ENTER.**
"ON" appears and the hour indication flashes.
- 4 Set the time to start recording.**
Press **↑** or **↓** repeatedly to set the hour, then press **→**.
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 start time, the stop time, and the preset radio station to be recorded (e.g., "FM20 → TAPE") appear in turn, before the original display returns.
- 6 Load a recordable tape into deck B.**
- 7 Press **I/⏻** to turn off the system.**

Other operations

To	Do this
Check the setting	<ol style="list-style-type: none">1 Press CLOCK/TIMER SELECT.2 Press ↑ or ↓ repeatedly until "REC SELECT?" 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 Daily Timer and Timer recording at the same time.
- If you use the Timer recording and the Sleep Timer at the same time, the Sleep Timer has priority.
- If the system is on at the preset time, the Timer recording will not be activated.
- The volume is reduced to minimum during recording.
- Do not operate the system from the time the system turns on until the recording starts (about 15 seconds before the preset time).
- Note that if the Timer Recording is set at the same time as the Daily Timer sound source is set to tape, the Timer Recording sound may be recorded onto the tape.

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)

* "–:–" appears if you have not set the clock.

Note

You cannot perform the following operations in Power Saving Mode.

- setting the clock
- turning on the system by pressing the function buttons

Tips

- The timer continues to operate in Power Saving Mode.
- I/⏻ indicator lights up even in Power Saving Mode.

Adjusting the brightness of the display back light

Press DIMMER repeatedly to select the desired setting while the system is on.

The display changes cyclically as follows:

DIMMER OFF → DIMMER 1 → DIMMER 2 → DIMMER 3*

* DIMMER 3 is the darkest.

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 CD-TEXT disc or a disc with MP3 audio tracks is loaded, you can also check the information recorded on disc, such as the titles. When the system detects CD-TEXT discs, the "CD TEXT" indication appears in the display.

Checking the remaining time and titles (VIDEO CD/CD/MP3)

Press DISPLAY during Normal Play.

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

■ **When playing a CD/MP3 or VIDEO CD without PBC function (Ver. 1.1)**

Current track number and elapsed playing time → Current track number and remaining time^{*1} → Remaining time of the disc^{*1} → Track title (CD-TEXT disc or disc with MP3 audio tracks^{*2} only) → Album name (disc with MP3 audio tracks only) → Clock display (for eight seconds) → Effect status (for eight seconds)

^{*1} " _ _ _ " appears in ALBM, ALBM SHUF or Program Play mode or when playing back MP3 audio tracks.

^{*2} When you play back a track with an ID3 tag ver. 1, the ID3 tag appears. The ID3 tag displays only the track title information.

■ **When playing a VIDEO CD with PBC function (Ver. 2.0)**

Elapsed playing time* → Clock display (for eight seconds) → Effect status

* The elapsed playing time may not be displayed in some cases such as during still image playback.

Checking the total playing time and titles (VIDEO CD/CD/MP3)

Press DISPLAY in stop mode.

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

■ **When a VIDEO CD/CD/MP3 is in Normal or Shuffle Play mode**

TOC display^{*1} or total album number of the disc^{*2} or total track number of the current album^{*3} → Disc title^{*4} or volume label^{*2} or album name^{*3} → Clock display (for eight seconds) → Effect status (for eight seconds)

^{*1} TOC = Table of Contents; displays total number of tracks on the disc, and total playing time of the disc

^{*2} For discs with MP3 audio tracks in Normal or Shuffle Play mode

^{*3} For discs with MP3 audio tracks in ALBM or ALBM SHUF mode

^{*4} For discs with CD-TEXT

Depending on the disc, some CD-TEXT information may not appear.

■ **When a CD/MP3 is in Program Play mode**

The last track number of the program and the total playing time → Total track number of the program (for five seconds) → Disc title^{*1} or track title^{*2} → Clock display (for eight seconds) → Effect status

^{*1} For discs with CD-TEXT

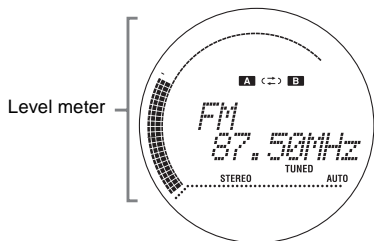
^{*2} For discs with MP3 audio tracks

Notes

- The total playing time is not displayed for a disc with MP3 audio tracks.
- ID3 tag applies to version 1 (1.0 or 1.1).
- If the MP3 audio track you play back has an ID3 tag, the ID3 tag information is displayed as a track title.
- When playing an MP3 audio track, elapsed playing time of the track may not be displayed accurately in the following case.
 - when an MP3 audio track of VBR (variable bit rate) is played.
 - when fast forward or fast reverse is performed.
- During MP3 playback, up to 30 characters can be displayed, such as disc title, volume label, album name, track title and ID3 tag information.

Viewing the level meter

The level meter in the display shows changes in audio source input levels and volume setting.



Note

Depending on the audio source being played, the level meter may not change.

Viewing information about the disc in the on-screen display

You can check the current operating status and disc information of VIDEO CDs or audio CDs during playback or in stop mode. Depending on conditions, some items are displayed and others are not. Before playing a VIDEO CD, turn on your TV and select the video input.

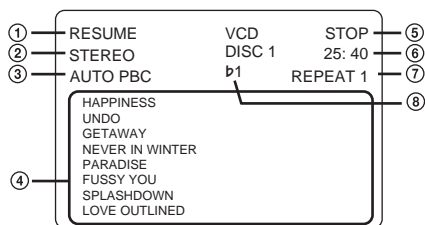
Press ON SCREEN.

Each time you press this button, the on-screen display changes cyclically as follows:

ON SCREEN 1 → ON SCREEN 2 → ON SCREEN OFF*

* No display (except for Time Search/Disc Digest)

ON SCREEN display 1, 2 in stop mode



①

While the deck is: Displayed

In stop mode	“RESUME” or no display
During playback	Current disc and track number

② “STEREO”, “KARAOKE PON”, “MPX L” or “MPX R”

③ Play mode
 (⌂) CONTINUE/⏪ CONTINUE/
 (⌂) SHUFFLE/⏪ SHUFFLE/PROGRAM
 or “AUTO PBC”*

* “AUTO PBC” appears for a VIDEO CD with PBC functions.

④

While the deck is: Displayed

In stop mode of an MP3 audio track*	Album name
In Program Play mode	Programed disc and track number
During playback of an MP3 audio track*	Current album name and track name
In other conditions	No display

* When the MP3 audio track information includes an ID3 tag, the on-screen display information may differ from the ID3 information shown on the system display. The album name or track name is displayed up to 22 characters.

⑤

While the deck is: Displayed

During playback	Elapsed time of the current track
In stop mode	“STOP”

⑥

While the deck is: Displayed

In stop mode	Total playing time of the current disc*
In Program Play mode	Total playing time of the program

* “- - - -” appears for a disc with MP3 audio tracks.

⑦ “REPEAT”, “REPEAT 1” or no display

⑧ Key control level or no display

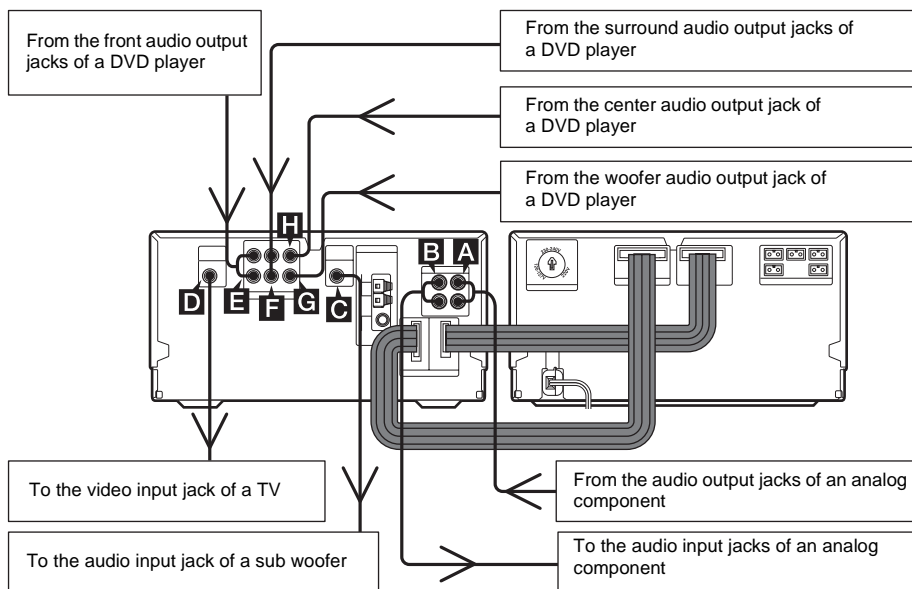
Notes

- Check to make sure that ON SCREEN OFF is selected when recording a video signal played back by this system onto a video tape, etc. Otherwise the display information will also be recorded onto the video tape.
- Noise may be heard when switching the on-screen display.

Optional Components

Hooking up optional components

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



A MD (VIDEO) IN L/R jacks

Use audio cords (not supplied) to connect an optional analog component (MD deck or VCR, etc.) to these jacks. You can then record or listen to from the component through this system.

B MD (VIDEO) OUT L/R jacks

Use audio cords (not supplied) to connect an optional analog component (MD deck or VCR, etc.) to these jacks. You can then output audio to the component from this system.

C SUB WOOFER OUT jack

Use an audio cord (not supplied) to connect the optional sub woofer* to this jack. You can then output audio to the component from this system.

* SA-WZ8 is recommended.

In some areas, the SA-WZ8 may not yet be available.

Note

The effects may be limited or noise may occur depending on the connected sub woofer or the type of music being played. For details, consult your nearest Sony dealer.

D VIDEO OUT jack

Use the supplied video cable to connect the video input to this jack.

You can control a Sony TV using the remote as below:

To	Do this
Turn on or off the TV	Press TV I/⏻ repeatedly.
Select the input source for the TV	Press TV/VIDEO repeatedly.
Change the channel of the TV	Press TV CH+/- repeatedly.
Adjust the volume of the TV	Press TV VOL+/- repeatedly.

Note

Depending on the TV, you may not be able to control your TV or to use some buttons above.

E DVD FRONT INPUT L/R jacks

F DVD SURROUND INPUT L/R jacks

G DVD WOOFER INPUT jack

H DVD CENTER INPUT jack

Use audio cords (not supplied) to connect a DVD player to these jacks (**E** – **H**). You can then record or listen to analogue audio from that component through this system.

Listening to audio from a connected component

Listening to an MD deck or VCR, etc.

Use buttons on the CD player for the operation.

1 Connect the audio cords.

See “Hooking up optional components” on page 34.

2 Press MD (VIDEO) to switch the function to MD or VIDEO.

Start playing the connected component.

Note

If the sound is distorted or too loud when “VIDEO” is selected or you want to switch back to “MD”, repeat the operation described above to switch to “MD”.

Tip

If you cannot select “VIDEO” by pressing MD (VIDEO) repeatedly, hold down MD (VIDEO) and then press I/⏻ while the system is on. The function will change from “MD” to “VIDEO”, and “VIDEO” will appear in the display. To change back to “MD”, repeat the same procedure.

Listening to a DVD player

1 Connect the audio cords.

See “Hooking up optional components” on page 34.

2 Press DVD repeatedly until “DVD” appears.

Start playing the connected component.

Each time you press 2 CH/MULTI, the function changes as follows:

DVD MULTI (5.1 channel)



DVD 2 CH (2 channel)

Note

You cannot enjoy the 5.1 channel surround sound if you connect a DVD player which does not have the 5.1 channel analog outputs.

Recording audio from a connected component

Making an analog recording from an analog component on a tape

1 Connect the audio cords.

See “Hooking up optional components” on page 34.

2 Start recording manually.

See “Recording on a tape manually” on page 23.

Recording on a connected component

Making an analogue recording

1 Connect the audio cords.

See “Hooking up optional components” on page 34.

2 Start recording.

Refer to the operating instructions provided with connected component.

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 Sony dealer.

In case of repairing, please bring the entire system set (except for the speaker) to the service station.

When the I/⏻ indicator flashes

Immediately unplug the power cord and check the following items.

- Are the system control cables connected correctly?
- 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 the supplied speakers?
- Is anything blocking the ventilation holes on the rear of the system?

Check all the above items and fix any problems found. After I/⏻ 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 Sony 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 6 of “Hooking up the system” (page 7)).

- Press I/⏻ while the system is off. The demonstration disappears.

“- -: -” appears in the display.

- A power interruption has occurred. Set the clock (page 10) and timer settings (pages 28 and 29) again.

The clock setting/radio presetting/timer is canceled.

- Redo the following:
 - “Setting the clock” (page 10)
 - “Presetting radio stations” (page 18)
 - “Waking up to music” (page 28)
 - “Falling asleep to music” (page 28)
 - “Timer recording radio programs” (page 29)

There is no sound.

- If your system has a voltage selector, make sure the voltage selector is set to the correct voltage.
- Press VOL + or turn VOLUME on the CD player clockwise.
- Make sure the headphones are not connected.
- Check the speaker connections (page 6).
- The protective device on the CD player has been activated because of a short circuit. Turn off the system, eliminate the short-circuit problem and turn on the system again.
- There is no audio output during Timer recording.

There is no microphone sound.

- Press VOL + or turn VOLUME or MIC LEVEL on the CD player to adjust the microphone volume.
- Make sure the microphone is connected to the microphone jack correctly.

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 10).

The timer does not function.

- Check the timer setting and set the correct time (pages 28 and 29).
- Cancel the Sleep Timer Function (page 28).

The remote does not function.

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

The system can not be turned on even though you have pressed I/⏻.

- Make sure the power cord is connected to wall outlet.
- Make sure the system control cables are connected correctly.

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.

Level meter does not change.

- Depending on the audio source being played, the level meter may not change.

CD player

The disc tray does not open and "LOCKED" appears.

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

The disc tray does not close.

- Place the disc correctly.
- Always close the tray by pressing ▲ on the CD player. 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 CD player to eject the disc.
- Consult your nearest Sony dealer.

Play does not start.

- Open the disc tray and check whether a disc is loaded.
- Wipe the disc clean (page 41).
- 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.

Disc access takes a long time.

- Set "CD POWER ON" by CD power manage function (page 19).

The sound skips.

- Wipe the disc clean (page 41).
- 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.
- Files that are too small (64 kB or less) cannot be played back.

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 albums or tracks on the disc is very large.
 - the album and track organization structure is very complex.

The album title, track title, ID3 tag, and the CD-TEXT characters 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.
 - The characters that can be displayed by this unit are as follows:
 - Upper cases (A to Z)
 - Lower cases (a to z)
 - Numbers (0 to 9)
 - Symbols (< > * + , - / _ , etc.)Other characters may not be displayed correctly.
-

Tuner

Severe hum or noise/stations cannot be received.

- Set the proper band and frequency (page 18).
 - Connect the antenna properly (page 7).
 - Find a place and an orientation that provide good reception, then set up the antenna again. If you cannot obtain good reception, we recommend you connect a commercially available external antenna.
 - The supplied FM lead antenna receives signals along its entire length, so make sure you extend it fully.
 - Locate the antennas as far away from the speaker cords as possible.
 - Consult your nearest Sony dealer if the supplied AM antenna has come off the plastic stand.
 - Try turning off surrounding electrical equipment.
 - Set “CD POWER OFF” by CD power manage function (page 19).
-

A stereo FM program cannot be received in stereo.

- Press FM MODE until “MONO” disappears.
-

Tape deck

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

- The heads are dirty. Clean them (page 42).
 - The record/playback heads are magnetised. Demagnetise them (page 42).
-

The tape does not erase completely.

- The record/playback heads are magnetised. Demagnetise them (page 42).
-

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

- The capstans or pinch rollers are dirty. Clean them (page 42).
-

Noise increases or the high frequencies are erased.

- The record/playback heads are magnetised. Demagnetise them (page 42).
-

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 42).
 - The tape has wound to the end.
-

After pressing ◀▶, there is a mechanical noise, “Eject” appears in the display, and the system enters standby mode automatically.

- Insert the cassette correctly.
-

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

Use buttons on the CD player for the operation.

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

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

Messages

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

VIDEO CD/CD/MP3

No Disc

There is no disc in the CD player.

OVER

You have reached the end of the disc or the end of MP3 audio track while pressing ►► during playback or pause.

Push STOP!

You pressed PLAY MODE during playback.

Step Full!

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

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.

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 (mains lead) 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 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 Sony 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 benzene, 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.
- Do not use discs encircled with a protection ring. This may cause a malfunction to the system.
- 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:

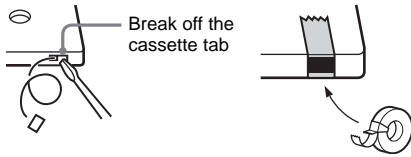
 - Rental or used discs with attached seals where the glue extends beyond the seal. The perimeter of the seal on the disc is tacky.
 - Discs that have labels printed using a special ink that feels tacky when touched.
- Discs with non-standard shapes (e.g., heart, square, star) cannot be played on this 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, benzene 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.

Demagnetising the tape heads

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

Specifications

Amplifier section

The following measured at AC 127, 220, 240 V, 50/60 Hz (Saudi Arabian model only)

The following measured at AC 220 V, 50/60 Hz (Thai model only)

The following measured at AC 120, 220, 240 V, 50/60 Hz (except for Saudi Arabian and Thai models)

Front speaker:

DIN power output (rated): 100 + 100 watts (6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference):

140 + 140 watts (6 ohms at 1 kHz, 10% THD)

Center speaker:

Continuous RMS power output (reference):

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

Surround speaker:

Continuous RMS power output (reference):

40 + 40 watts (6 ohms at 1 kHz, 10% THD)

Inputs

MIC 1/2 (phone jacks): sensitivity 1 mV, impedance 10 kilohms

MD (VIDEO) IN L/R (phono jacks): sensitivity 450 mV (250 mV), impedance 47 kilohms

DVD INPUT

FRONT, REAR, CENTER, WOOFER (phono jacks): sensitivity 450 mV, impedance 47 kilohms

Outputs

MD (VIDEO) OUT L/R (phono jacks): Voltage 250 mV, impedance 1 kilohms

SUB WOOFER OUT: Voltage 350 mV, impedance 1 kilohms

VIDEO OUT (phono jacks): max. output level 1 V_{p-p}, unbalanced, Sync negative, load impedance 75 ohms

PHONES (stereo mini jack):

accepts headphones of 8 ohms or more

FRONT L/R:	Use only the supplied speaker SS-WZ8
SURROUND L/R:	Use only the supplied speaker SS-RS400
CENTER:	Use only the supplied speaker SS-CT400

CD player section

System	Compact disc and digital audio system
Laser	Semiconductor laser ($\lambda=795$ nm) Emission duration: continuous
Frequency response	2 Hz – 20 kHz (± 0.5 dB)
Wavelength	795 nm
Signal-to-noise ratio	More than 90 dB
Dynamic range	More than 90 dB
Video color system format	NTSC, PAL

Tape deck section

Recording system	4-track 2-channel, stereo
Frequency response	50 – 13,000 Hz (± 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
Antenna	FM lead antenna
Antenna terminals	75 ohms unbalanced
Intermediate frequency	10.7 MHz
AM tuner section	
Tuning range	
Middle Eastern model:	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

Front speaker (SS-WZ8):

Speaker system	3-way, 3-unit, bass-reflex type, magnetically shielded type
Speaker units	
Sub Woofer:	15 cm, cone type
Woofer:	15 cm, cone type
Tweeter:	5 cm, cone type
Nominal impedance	6 ohms
Dimensions (w/h/d)	Approx. 220 × 415 × 290 mm
Mass	Approx. 7.0 kg net per speaker

Surround speaker (SS-RS400):

Speaker system	2-way, 2-unit, bass-reflex type
Speaker units	
Woofer range:	8 cm, cone type
Tweeter:	4 cm, cone type
Nominal impedance	6 ohms
Dimensions (w/h/d)	Approx. 105 × 200 × 120 mm
Mass	Approx. 0.9 kg net per speaker

Center speaker (SS-CT400):

Speaker system	2-way, 2-unit, bass-reflex type, magnetically shielded type
Speaker units	
Woofer range:	8 cm, cone type
Tweeter:	4 cm, cone type
Nominal impedance	6 ohms
Dimensions (w/h/d)	Approx. 255 × 105 × 120 mm
Mass	Approx. 1.1 kg net per speaker

General

Power requirements	
Saudi Arabian model:	120 – 127 V, 220 V or 230 – 240 V AC, 50/60 Hz Adjustable with voltage selector
Thai model:	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	250 watts
Dimensions (w/h/d)	
CD player/Tuner:	Approx. 255 × 135 × 355 mm
Amplifier/Tape deck:	Approx. 255 × 135 × 330 mm
Mass	
CD player/Tuner:	Approx. 3.0 kg
Amplifier/Tape deck:	Approx. 7.7 kg
Supplied accessories:	Remote Commander (1) Batteries (2) AM loop antenna (1) FM lead antenna (1) Speaker pads (20) Speaker cords (5) Video cable (1)

Design and specifications are subject to change without notice.

Glossary

Album

Section of a music piece or an image on a data CD containing MP3 audio tracks.

Auto Pause

An automatical pauses according to the signal encoded on the disc while playing a VIDEO CD. If the CD player does not resume play for a long time, press ◀▶ to resume play manually.

Menu Playback

Playback using the menu screens recorded on VIDEO CDs with PBC functions. You can enjoy simple interactive software using the menu playback function.

Playback Control (PBC)

Signals encoded on VIDEO CDs (Ver. 2.0) to control playback. By using menu screens recorded on VIDEO CDs with PBC functions, you can enjoy playing simple interactive programs, programs with search functions, and so on.

This system conforms to Ver. 1.1 and Ver. 2.0 of VIDEO CD standards. You can enjoy two kinds of playback depending on the disc type.

VIDEO CDs without PBC functions (Ver. 1.1 discs)

Enjoy video playback (moving pictures) as well as music.

VIDEO CDs with PBC functions (Ver. 2.0 discs)

Play interactive software using menu screens displayed on the TV screen (PBC Playback), in addition to the video playback functions of Ver. 1.1 discs. Moreover, you can play high-resolution still pictures, if they are included on the disc.

Scene

On a VIDEO CD with PBC (playback control) functions, the menu screens, moving pictures, and still pictures are divided into sections called “scenes”.

Track

Sections of a picture or a music piece on a CD, VIDEO CD or MP3. An album is composed of several tracks (MP3 only).

VIDEO CD

A compact disc that contains moving pictures. The picture data uses the MPEG 1 format, one of the worldwide standards for digital compression technology. The picture data is compressed to about 1/140 of its original size. Consequently, a 12 cm VIDEO CD can contain up to 74 minutes of moving pictures.

VIDEO CDs also contain compact audio data. Sounds outside the range of human hearing are compressed while the sounds we can hear are not compressed. VIDEO CDs can hold 6 times the audio information of conventional audio CDs.

There are 2 versions of VIDEO CDs.

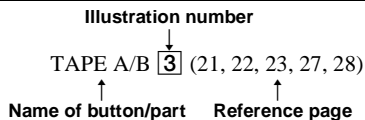
- Ver. 1.1: You can play only moving pictures and sounds.
- Ver. 2.0: You can play high-resolution still pictures and enjoy PBC functions.

This system conforms to both versions.

List of button locations and reference pages

How to use this page

Use this page to find the location of buttons and other parts of the system that are mentioned in the text.



Main unit

ALPHABETICAL ORDER

A - L

CD **5** (11, 14, 16, 19, 22, 23, 28)
 CD SYNC **9** (22)
 Control lever **7** (8, 25)
 Deck A **29** (21)
 Deck B **26** (22, 23, 27, 29)
 DIMMER **20** (31)
 Disc tray **25** (11)
 DISPLAY **19** (30, 31)
 Display window **24**
 ECHO LEVEL **21** (27)
 EFFECT **17** (24, 25, 27)
 EQ EDIT **18** (25, 39)
 GROOVE **7** (24, 27)
 Headphone jack **13**

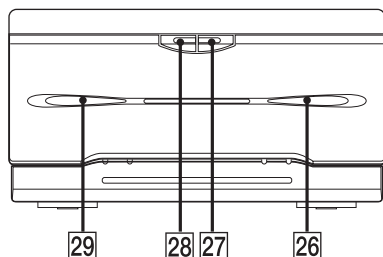
M - Z

MD (VIDEO)/DVD **2** (23, 35, 36)
 MIC LEVEL **22** (26)
 Microphone jacks **23**
 MOVIE MODE **7** (24, 27)
 MUSIC MODE **7** (24, 25, 27)
 PLAY MODE/DIRECTION **15**
 (12, 16, 21, 22, 23, 27)
 PRO LOGIC **7** (9, 26)
 PUSH ENTER **7** (10, 16, 18, 25, 28, 29)
 Remote sensor **12**
 REPEAT/FM MODE **16** (15, 20)
 TAPE A/B **3** (21, 22, 23, 27, 28)
 TUNER/BAND **6** (18, 19, 20, 23, 28)
 VOLUME **11** (9, 28)
 2CH/MULTI **14** (36)

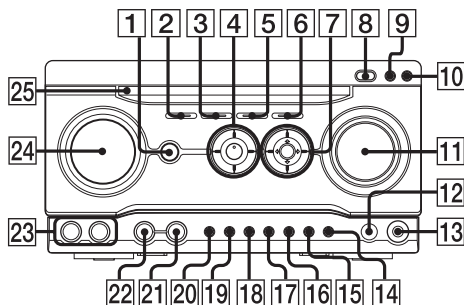
BUTTON DESCRIPTIONS

I/⏻ (power) **1** (7, 19, 28, 35, 39)
|| (pause) **4** (12, 21)
 A ▲ (eject) **28** (20)
 ▲ B (eject) **27** (20)
 ◀▶ (play) **4** (7, 12, 21, 22, 27)
 ■ (stop) **4** (8, 12, 19, 21, 22, 27, 39)
 +▶▶▶▶ (fast forward/go forward) **4** (7, 12, 18, 21)
 ◀◀◀◀ (rewind/go back) **4** (7, 12, 18, 21)
 ▲ (open/close) **8** (11)
 ● START **10** (22)

Amplifier/Tape deck



CD player/Tuner



Remote control

ALPHABETICAL ORDER

A - O

- ALBUM +/- **6** (12, 16)
- CD **21** (11, 14, 16, 22, 23, 28)
- CENTER LEVEL +/- **11** (9)
- CLEAR **33** (16, 17)
- CLOCK/TIMER SELECT **50** (29, 30)
- CLOCK/TIMER SET **49** (10, 28, 29)
- DIMMER **5** (31)
- DISPLAY **4** (30, 31)
- DVD **36** (36)
- EFFECT **41** (24, 25, 27)
- ENTER **40** (10, 16, 18, 25, 28, 29)
- EQ EDIT **42** (25)
- FM MODE **27** (20)
- GROOVE **16** (24, 27)
- KARAOKE/MPX **46** (26)
- KEY CONTROL #/b **13** (27)
- MD (VIDEO) **43** (35)
- MOVIE MODE **18** (24, 27)
- MUSIC MODE **17** (24, 25, 27)
- NEXT **45** (13, 14, 17)
- Number buttons **24** (14, 17)
- ON SCREEN **26** (32)

P - Z

- PLAY MODE/DIRECTION **48** (12, 16, 21, 22, 23, 27)
- PRESET +/- **22** (18, 19)
- PREV **44** (13, 14, 17)
- PROGRAM EDIT **38** (22)
- PRO LOGIC **14** (9, 26)
- REPEAT **28** (15)
- SELECT **23**
- SLEEP **29** (28)
- SPECIAL MENU **25** (17)
- SURROUND **19** (25)
- SURROUND LEVEL +/- **10** (9)
- TAPE A/B **37** (21, 22, 23, 27, 28)
- TEST TONE **39** (9)
- TUNER/BAND **9** (18, 19, 20, 23, 28)
- TUNER MEMORY **32** (18)
- TUNING +/- **35** (18, 20)
- TUNING MODE **47** (18, 19)
- TV CH +/- **3** (35)
- TV VOL +/- **2** (35)
- TV/VIDEO **31** (35)
- VOL +/- **12** (9, 28)
- 2CH/MULTI **20** (36)

BUTTON DESCRIPTIONS

- I/⏻ (power) **1** (7, 28)
- ◀◀/▶▶ (rewind/fast forward) **35** (12, 18, 21)
- ◀◀/▶▶ (go back/go forward) **22** (12, 18, 21)
- ▶▶ (play) **23** (12, 21, 22, 27)
- ⏸ (pause) **7** (12, 21)
- (stop) **8** (12, 21, 22, 27)
- ↑/↓/←/→ (cursor) **15** (9, 28)
- TV I/⏻ **30** (35)
- RETURN ↻ **34** (14)

