

Component Hi-Fi Stereo System

Operating Instructions



LBT-XGV11AV

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.

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

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.

ENERGY STAR[®]



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 system, but the same operations can also be performed using the buttons on the remote 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









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 ISO9660 Level 1/Level 2 or 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.
- * Up to 30 characters can be displayed.

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

Notes on CD-R and CD-RW

- This system can play CD-R/CD-RW discs edited by the user. However, note that playback of some discs may not be possible depending on the recording device used for recording or the disc condition.
- 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 that have not been finalized (processing to allow play by a normal CD player) cannot be played.
- CD-R and CD-RW discs recorded in multi-session mode are not supported.
- 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.
- 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 to which data can be added (non-finalized disc).

Note on playback operations of VIDEO CDs

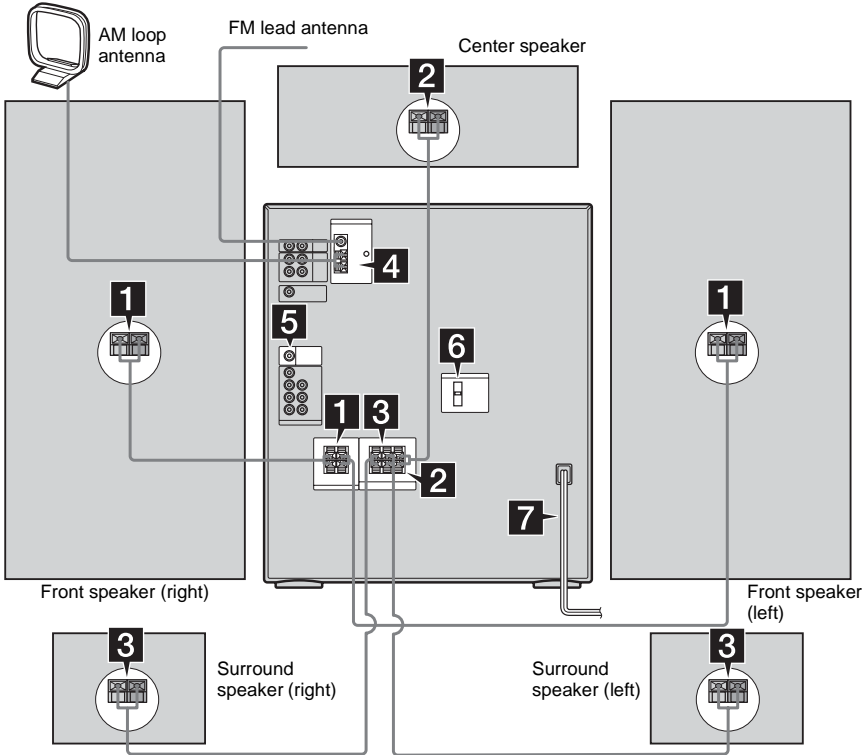
Some playback operations of VIDEO CDs may be intentionally set by software producers. Since this system plays VIDEO CDs according to the disc contents the software producers designed, some playback features may not be available. Also, refer to the instructions supplied with the VIDEO CDs.

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.

Hooking up the system

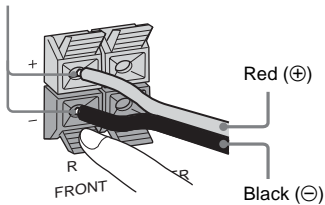
Perform the following procedures **1** to **8** to hook up your system using the supplied cords and accessories (page 48).



1 Connect the front speakers.

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

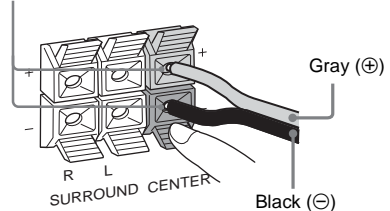
Insert only the stripped portion



2 Connect the center speaker.

Connect the speaker cord to the CENTER SPEAKER jack as shown below.

Insert only the stripped portion

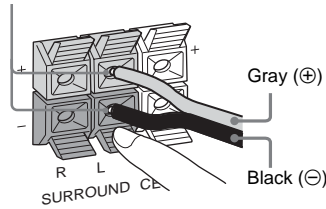


continued

3 Connect the surround speakers.

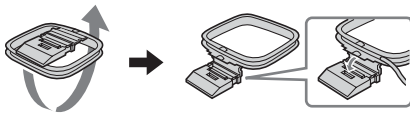
Connect the speaker cords to the SURROUND SPEAKER jacks as shown below.

Insert only the stripped portion

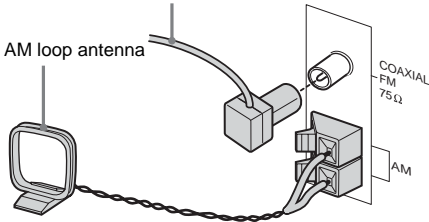


4 Connect the FM and AM antennas.

Set up the AM loop antenna, then connect it.



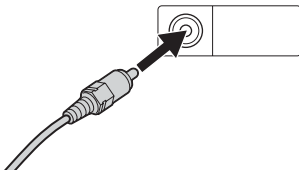
Extend the FM lead antenna horizontally



Note

Keep the antennas away from the speaker cords.

5 Connect the video input jack of your TV to the VIDEO OUT jack with the supplied video cord.

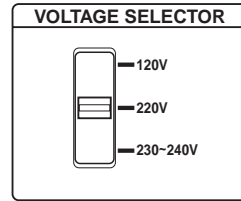


When using a TV

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

6 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.



7 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). You can cancel the demonstration by pressing DISPLAY repeatedly (page 33).

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

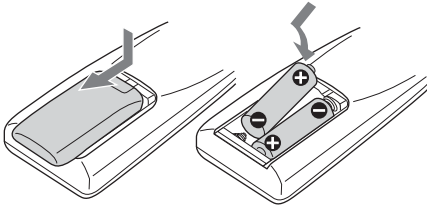
The color system is factory set to AUTO.

The color system of your TV	Do this
NTSC	Press I/⏻ while holding down MOVIE. The system is set to NTSC.
PAL	Press I/⏻ while holding down REGGAE. The system is set to PAL.
AUTO	Press I/⏻ while holding down TANGO. If your TV automatically changes the color system according to the input signal, the system is set to AUTO.

Notes

- You cannot set the color system in Power Saving Mode (page 33).
- When you play back a VIDEO CD recorded in a different color system from the one you set to the unit, the picture image may be distorted.

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

When the remote no longer operates the system, replace both batteries with new ones.

Using the remote

You can use the buttons shown below to operate a Sony TV.

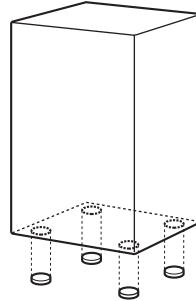
To	Do this
Turn the TV on or off	Press TV I/⏻.
Switch the TV's video input	Press TV/VIDEO.
Change the TV channels	Press TV CH + or -.
Adjust the volume of the TV speaker(s)	Press TV VOL + or -.

Attaching the speaker pads

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

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

Center speaker (4)



When carrying this system

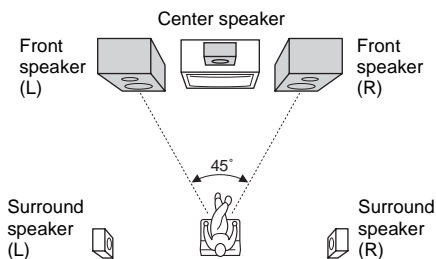
Perform the following procedure to protect the CD mechanism.

- 1 Make sure that all discs are removed from the system.
- 2 Press FUNCTION (or FUNCTION + or - on the remote) repeatedly until "CD" appears.
- 3 Hold down EDIT, then press I/⏻ until "LOCK" appears.
- 4 Unplug the power cord.

Setting the speakers

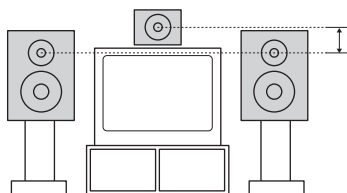
Positioning the speakers

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

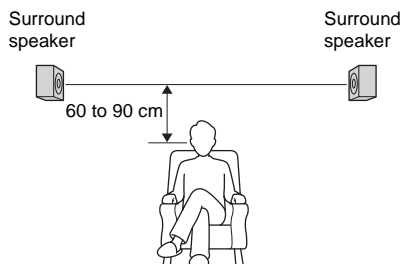


- 2 Place the center speaker at about the same height as the front speakers.

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.



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 power is on.

The indicator lights up.

- 2 Press **TEST TONE** on the remote.

The test tone is heard from the speakers in the following order.

LEFT (front left) → CENTER (center) → RIGHT (front right) → SURROUND (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 +/- on the remote.
the volume of the surround speakers	Press SURR LEVEL +/- on the remote.

- 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 "SURROUND" appears.

- 5 Press **TEST TONE** on the remote 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 turn **VOLUME** (or press **VOL +** or **-** on the remote) all the speaker volume changes.

Setting the clock

- 1** Press I/⏻ to turn on the system.
- 2** Press ⊖/CLOCK SET (or CLOCK/TIMER SET on the remote).
- 3** Press ↑/↓ repeatedly to set the hour.
- 4** Press ENTER.
- 5** Press ↑/↓ repeatedly to set the minute.
- 6** Press ENTER.

The clock starts working.

To adjust the clock

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

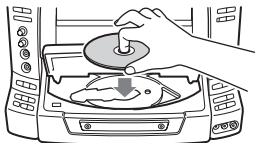
Notes

- 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 33).

VIDEO CD/CD/MP3 – Play

Loading a disc

- 1 Press PUSH OPEN at left side of the front cover.**
The front cover opens.
- 2 Place a disc with the label side up on the disc tray.**



To insert additional discs, press DISC SKIP to rotate the disc tray.

- 3 Close the front cover.**

Note

Do not use a disc with tape, seals or paste on it as this may cause malfunction.

Playing a disc

— Normal Play/Shuffle Play



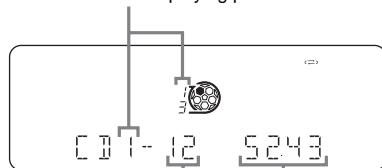
This system lets you play VIDEO CDs*, audio CDs and discs with MP3 audio tracks.

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 disc is loaded

Disc number in the playing position



Total track number Total playing time

- 1 Press FUNCTION (or FUNCTION + or – on the remote) repeatedly until “CD” appears.**

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

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.
ALBUM (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 1DISC Play.
ALL DISCS SHUFFLE (Shuffle Play)	The tracks on all discs in random order.
1DISC SHUFFLE (Shuffle Play)	The tracks on the disc you have selected in random order.
ALBUM SHUFFLE (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 1DISC SHUFFLE Play.
PROGRAM (Program Play)	The tracks on all discs in the order you want them to be played (see “Creating your own program” on page 16).

* Depending on VIDEO CDs with PBC function (Ver. 2.0), the disc does not change.

3 Press **▶||** (or **CD ▶** on the remote).

Other operations

To	Do this
Stop play	Press ■ .
Pause	Press ▶ (or on the remote)* ¹ . Press again to resume play.
Select a track or scene* ²	Press ◀◀ or ▶▶ (or PREV or NEXT on the remote for VIDEO CD) 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 playback. At the desired point, press ▶ (or CD ▶ on the remote) to stop searching and start playback. For VIDEO CDs only, each time you press the button, speed changes cyclically as follows: 1 (slow) → 2 (normal) → 3 (high)
Select a disc	Press DISC 1 – 5 or DISC SKIP .
Switch to CD function from another source	Press DISC 1 – 5 or ▶ (or CD ▶ on the remote) (Automatic Source Selection).
Remove a disc	Press PUSH OPEN , then press DISC SKIP until the disc comes to the front.
Adjust the volume	Turn VOLUME (or press VOL + or - on the remote).

*¹ For VIDEO CDs, there are 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 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 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 albums)
- Up to 512 tracks and albums of MP3 on a single disc can be recognized on this unit.
- 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 switching to CD function from tuner, a longer time may be required to access the disc. In this case, set “CD POWER ON” by CD power manage function (page 20).

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) on the remote.

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.

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 ►II (or CD ► on the remote).

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

Notes

- You cannot perform Resume Play during Disc Digest, 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, ■, DISC SKIP or ◀◀/▶▶.
 - you disconnect the power cord.
 - you turn off the system.
 - you switch the function to tuner when “CD POWER OFF” is selected (page 20).

Tip

To view from the beginning of the VIDEO CD, press ■ in stop mode, then press ►II (or CD ► on the remote).

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 FUNCTION (or FUNCTION + or – on the remote) repeatedly until “CD” appears.**
- 2 Press ►|| (or CD ► on the remote) to start playing a VIDEO CD with PBC functions (Ver. 2.0).**
The PBC menu appears on the TV screen.
- 3 Press ◀◀ or ▶▶ repeatedly to select the item number you want, then press SELECT on the remote (or press the number button(s) on the remote).**
- 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 on the remote.
Go back to the previous menu page or scene	Press PREV on the remote.
Go back to the previous menu	Press RETURN ↶ on the remote.
Enter a track number over 10	See “To play a track by entering the track number” (page 14).

To cancel playback with PBC functions (Ver. 2.0)

- 1** In stop mode, press ◀◀ or ▶▶ to select a track.
- 2** Press ►|| (or CD ► on the remote).
The “PBC OFF” indicator lights up and 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 ►|| (or CD ► on the remote).

Tips

- When “” appears on the TV screen, you have pressed an invalid button.
- When you press NEXT on the remote 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 just pressing the number button(s) on the remote in stop mode.

Playing repeatedly

— Repeat Play



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

Press REPEAT during playback until “REPEAT” or “REPEAT1” appears.

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

REPEAT1: For a single track only.

To cancel Repeat Play

Press REPEAT repeatedly until both “REPEAT” and “REPEAT1” disappear.

Notes

- You cannot select “REPEAT” and “ALL DISCS SHUFFLE” at the same time.
- You cannot select “REPEAT1” during playback of VIDEO CDs with PBC functions (Ver. 2.0).

Creating your own program

— Program Play

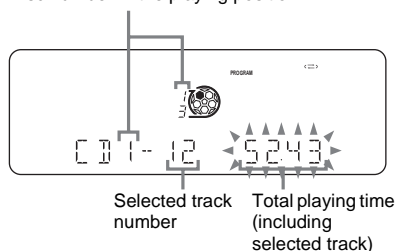


You can make a program of up to 25 steps from all the discs in the order you want to play them. You can synchro record the programmed tracks onto a cassette tape (page 23).

- 1 Press FUNCTION (or FUNCTION + or – on the remote) repeatedly until “CD” appears, then load a disc.**
- 2 Press PLAY MODE in stop mode repeatedly until “PROGRAM” appears.**
- 3 Press one of DISC 1 – 5 or DISC SKIP to select a disc.**
- 4 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.

Disc number in the playing position



- 5 Press PLAY MODE once.**

The track is programmed.

First the programmed playing order and “STEP” appear, then the total playing time appears.

6 Program additional discs or tracks.

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

7 Press **▶||** (or **CD ▶** on the remote).

Program Play starts.

Other operations

To	Do this
Cancel Program Play	Press PLAY MODE in stop mode repeatedly until “PROGRAM”, “ALL DISCS SHUFFLE” or “1DISC SHUFFLE” disappears.
Clear a track from the end	Press CLEAR on the remote in stop mode.
Add a track to the end of the program in stop mode	Perform steps 3 to 5.

Tips

- The program you made remains after Program Play finishes. To play the same program again, press **▶||** (or **CD ▶** on the remote).
- “--:--” appears when the total VIDEO CD/CD program time exceeds 100 minutes, 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.

Use the remote for the operation.

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**, then press the number buttons again.

- 4 Press **SELECT**.

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, “▶▶” 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 +/-.**

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 through 3 of “Manual tuning preset”.

- 4 Press MEMORY.**

The preset number flashes. Perform steps 5 and 6 while the preset number flashes.



Preset number

- 5 Press TUNING +/- repeatedly to select the desired preset number.**
- 6 Press TUNER ENTER.**
“COMPLETE” appears.
- 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 “MANUAL” appears.**
- 3 Press TUNING +/- repeatedly to tune in the desired station.**
- 4 Press MEMORY.**
The preset number flashes. Perform steps 5 and 6 while the preset number flashes.
- 5 Press TUNING +/- repeatedly to select the desired preset number.**
- 6 Press TUNER ENTER.**
“COMPLETE” appears.
- 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”.
Stop scanning	Press TUNING MODE.
Change the preset number	Start over from step 1.
Change the preset station	Start over from step 1.
Cancel presetting	Press MEMORY.

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.

- 1 Press **FUNCTION** (or **FUNCTION +** or **-** on the remote) repeatedly until “CD” appears.
- 2 Press **I/⏻** to turn off the system.
- 3 Press **I/⏻** while holding **■**. “CD POWER OFF” appears.

To set CD power on

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

Notes

- When “CD POWER OFF” is selected, disc access time is increased.
- You cannot change the setting in Power Saving Mode (page 33).

To change the AM tuning interval

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 **TUNER ENTER**, press **I/⏻** to turn the system back on. When you change the interval, all the AM preset stations are erased. To reset the interval, repeat the same procedure.

Note

You cannot change the AM tuning interval in Power Saving Mode (page 33).

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 19).

- 1 Press **TUNER/BAND** repeatedly to select “FM” or “AM”.
- 2 Press **TUNING MODE** repeatedly until “PRESET” appears.
- 3 Press **TUNING +/-** (or **PRESET +/-** on the remote) repeatedly to select the desired preset station.

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

Press number buttons on the remote instead of performing step 3. To enter preset number 10 or higher, press >10 and the corresponding number buttons. To enter 0, press 10/0.

Listening to non-preset radio station

— **Manual Tuning**

- 1 Press TUNER/BAND repeatedly to select “FM” or “AM”.**
- 2 Press TUNING MODE repeatedly until “MANUAL” appears.**
- 3 Press TUNING +/- repeatedly to tune in the desired station.**



Note

When switching to CD function from tuner, a longer time may be required to access the disc. In this case, set “CD POWER ON” by CD power manage function (page 20).

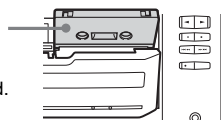
Tips

- 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 +/- . 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 24).

Loading a tape









- 1 Press A EJECT  or  B EJECT.
- 2 Load a recorded/recordable tape in deck A or B.

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



Playing a tape









You can use TYPE I (normal) tape.

- 1 Load a recorded tape.
- 2 Press **DIRECTION** repeatedly to select “” to play one side. Select “” to play both sides. Select “**RELAY**” (Relay Play)* to play both decks in succession.
- 3 Press  (or TAPE A  or TAPE B ) on the remote).
Press  (or TAPE A  or TAPE B ) on the remote again) to play the reverse side. 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)

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

Other operations

To	Do this
Stop play	Press  .
Pause (deck B only)	Press  . Press again to resume play.
Fast-forward or rewind	Press  or  (or  or  on the remote) in stop mode.
Remove a tape	Press A EJECT  (or  B EJECT) in stop mode.

Searching for the beginning of the current or the next track (AMS*)

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



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

Example: searching forward 2 songs

TAPE A : : : +2

* AMS: Automatic Music Sensor

Notes

- Do not press A EJECT  or  B EJECT while playing a tape, otherwise the tape could be damaged.
- 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.






Tape – Recording

Recording your favorite CD tracks on a tape

— CD Synchro Recording

You can record a whole disc on a tape. You can use TYPE I (normal) tape. The recording level is adjusted automatically.

- 1 Load a recordable tape into deck B.**
- 2 Press FUNCTION (or FUNCTION + or – on the remote) repeatedly until “CD” appears, then load a disc you want to record.**
- 3 Press CD SYNC.**

Deck B stands by for recording. When you want to record on the reverse side, press  (or TAPE B   on the remote).
- 4 Press DIRECTION repeatedly to select “” to record on one side. Select “” (or “RELAY”) to record on both sides.**
- 5 Press II.**

Recording starts.

To stop recording

Press .

To record a disc by specifying track order

You can record only your favorite disc tracks using Program Play. Between steps 2 and 3, perform steps 2 to 6 of “Creating your own program” (page 16).

Also, you can check the required tape length for recording a disc. Press EDIT after you have loaded a disc 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.

Tips

- When setting the PBC function to on, change the setting to off and then start recording.
- 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.

Recording on a tape manually

— Manual Recording

You can record just the portions you like from a disc, tape or radio program on a tape. You can also record from connected components (see “Recording audio from a connected component” on page 40).

- 1 Load a recordable tape into deck B.**
- 2 Press FUNCTION (or FUNCTION + or – on the remote) or TUNER/BAND repeatedly to select the desired source to record.**

- CD: To record from this system’s CD player.
- TAPE A: To record from this system’s tape deck A.
- TUNER: To record from this system’s tuner.
- GAME: To record from the connected video game machine to GAME INPUT AUDIO L/R jacks.
- MD or VIDEO: To record from the connected optional component to MD (VIDEO) IN L/R jacks.
- PHONO: To record from the connected optional component to PHONO IN L/R jacks.

- 3 Press ● REC.**

Deck B stands by for recording.

When you want to record on the reverse side, press ◀ (or TAPE B ◀▶ on the remote).

- 4 Press DIRECTION repeatedly to select “→” to record on one side. Select “↔” (or “RELAY”) to record on both sides.**

- 5 Press II, then start playing the desired source to record.**

Recording starts.


To stop recording

Press ■.

Note

You cannot listen to other sources while recording.

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.
- For recording from the tape:
If you set the direction to  (or RELAY) when the tapes you use have different lengths, the tapes in each deck reverses independently.
- For recording from the radio:
If noise is heard while recording from the radio, 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 X-GROOVE.

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

X-GROOVE ON (on)



X-GROOVE OFF (off)

Tip

Factory set to “X-GROOVE ON”.

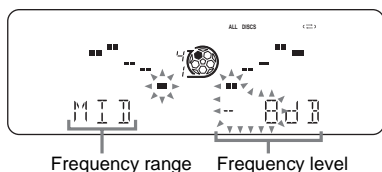
Making a personal audio emphasis file

— Personal File

You can create a personal file of audio patterns (surround effect and graphic equalizer) and store them in the system's memory. Later, you can call up an audio pattern when playing a favorite tape, disc, or radio program.

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

- 1 Press **←/→** to select the frequency range, and then press **↑/↓** to adjust the level.



- 2 Press and hold **P FILE** until **"MEMORY"** appears.

- 3 Press **ENTER**.

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	Do this
Call up a personal file	Press P FILE .
Cancel a personal file	Press EFFECT repeatedly until "EFFECT OFF" appears.

Selecting the audio emphasis effect

Selecting the preset effect from the music menu

Press a direct equalizer button you want.

The preset effect name appears.

See the chart "Music menu options".

Music menu options

"SUR (((((()))") appears if you select an effect with surround effects.

Effect	
SALSA	Standard music sources
REGGAE	
TANGO	
SAMBA	
ROCK	
JAZZ	
DANCE	
POP	
MOVIE	Soundtracks and special listening situations
GAME	PlayStation 1, 2 and other video game music sources

Other operations

To	Do this
Select a personal file	Press P FILE .
Cancel the effect	Press EFFECT repeatedly until "EFFECT OFF" appears.

Tip

You can also select the preset effect including the personal file by pressing **FILE SELECT +/-** on the remote repeatedly.

Selecting the surround effect

Press **SURROUND** (or **SURR** on the remote) repeatedly to select the surround mode you want.

The surround effect name appears.

See the chart “Surround effect options”.


Surround effect options

Effect	
SURROUND OFF	Deactivates the surround mode.
SURROUND ON	Reproduces stereo sources in surround sound.
HALL	Reproduces the acoustics of a concert hall.
THEATER	Reproduces the acoustics of a movie theater.
E. (enhanced) THEATER	Reproduces the acoustics of a large movie theater.

Note

If you choose other sound effects, the surround effect will be canceled. To retain the effect, store it in a personal file (see “Selecting the audio emphasis effect” on page 26).

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 “Setting the speakers” on page 10).

1 Press **PRO LOGIC**.

The 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.

Enhancing video game sound

— Game Sync

You need to connect a video game machine (see “Hooking up optional components” on page 37).

Press GAME in the left corner of the front panel.

Tips

- In the standby mode, the system automatically turns on.
- The equalizer automatically switches to the GAME.
- These operations cannot be performed in Power Saving Mode (page 33).

Mixing video game sound with other sound source

— Game Mixing

1 Press FUNCTION (or FUNCTION + or – on the remote) repeatedly to select the desired sound source.

2 Press GAME MIXING.

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

MIXING LOW → MIXING MID →
MIXING HIGH → MIXING OFF

Note

If you start recording while Game Mixing is activated, Game Mixing is canceled. To record the mixed sound, press GAME MIXING after step 4 of “Recording on a tape manually” on page 24, and then press **II** to start the recording.

Tips

- The GAME MIXING indicator lights up while Game Mixing is activated.
- Once Game Mixing is activated, it will remain active while the power is on even if the sound source is changed.

Singing along

You can sing along by connecting an optional microphone.

Enjoying Karaoke

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

2 Connect an optional microphone to MIC-1 or MIC-2 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

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.

Other operations

To	Do this
Use VIDEO CDs	Turn on your TV and switch it to the appropriate video input.
Cancel karaoke mode	Turn MIC LEVEL to MIN and disconnect the microphone from MIC-1 or MIC-2 jack, then press KARAOKE/MPX repeatedly until “  ” disappears.
Adjust the microphone echo	Turn ECHO LEVEL to adjust the echo effect. To cancel the echoing, turn ECHO LEVEL to MIN.
Adjust the key*	Press KEY CONTROL # or b on the remote to suit your vocal range. You can adjust the key higher or lower in 13 halftone steps (b6 – #6).

* This function is not available on MP3 audio tracks.

Notes

- With some songs, vocals may not be canceled when you select “KARAOKE PON”.
- During KARAOKE PON, equalizer and surround settings cannot be changed.
- If you press a direct equalizer button (or EFFECT) or recall a sound effect, the karaoke mode is canceled.
- 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.
- If you connect the microphone while playing a 5.1 channel, the sound switches to 2 channel.

Tip

You can connect two microphones to MIC-1 and MIC-2 jacks at the same time.




Mixing and recording sounds



1 Prepare the sound source you want to mix. Then, load a recordable tape in deck B.









2 Press FUNCTION (or FUNCTION + or – on the remote) repeatedly to select the source you want to record.

3 Press .

Deck B stands by for recording.

When you want to record on the reverse side, press  (or TAPE B   on the remote).

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

5 Press  and then press   (or CD  on the remote) to start playing the disc or press  /  on deck A (or TAPE A   on the remote) to start playing the tape.

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 disc function and not playing a disc.
- When high level sound signals are input, the unit automatically adjusts the recording level to prevent distortion of the recorded sound signal (Auto Level Control Function).

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* → 90 → 80 → 70 → ... → 10 → OFF

* The system automatically turns off in 100 minutes or after the current disc or tape finishes playing (for up to 100 minutes).

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 "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 11).

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 16).
- Tape: Load a tape.
- Tuner: Tune in the preset radio station (see "Listening to the radio" on page 20).

2 Turn VOLUME (or press VOL +/- on the remote) to adjust the volume.



3 Press /CLOCK SET (or CLOCK/TIMER SET on the remote).

"SET" appears and "DAILY SET" flashes.



4 Press ENTER.

"ON" appears and the hour indication flashes.

5 Set the time to start playing.

Press / repeatedly to set the hour, then press ENTER.

The minute indication flashes.

Press / repeatedly to set the minute, then press ENTER.

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

7 Press / repeatedly until the desired sound source appears.

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



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 TIMER SELECT (or CLOCK/TIMER SELECT on the remote).2 Press ↑/↓ 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 TIMER SELECT (or CLOCK/TIMER SELECT on the remote).2 Press ↑/↓ 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 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.

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 19) and set the clock (see “Setting the clock” on page 11).

- 1 Tune in the preset radio station (see “Listening to a preset station” on page 20).**
- 2 Press **⊖/CLOCK SET (or CLOCK/TIMER SET on the remote).****
- 3 Press **↑/↓** repeatedly to select “REC SET”, then press ENTER.**
“ON” appears and the hour indication flashes.
- 4 Set the time to start recording.**
Press **↑/↓** repeatedly to set the hour, then press ENTER.
The minute indication flashes.
Press **↑/↓** 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., “TUNER FM 5”) 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 TIMER SELECT (or CLOCK/TIMER SELECT on the remote).2 Press ↑/↓ 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 TIMER SELECT (or CLOCK/TIMER SELECT on the remote).2 Press ↑/↓ 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 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 when Timer Recording starts.

Tip

The system turns on 15 seconds before the preset time.

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 and 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)

* “-:-:-” is displayed if you do not set the clock.

Note

You cannot perform the following operations in Power Saving Mode.

- setting the clock (page 11)
- changing the AM tuning interval (page 20)
- turning on the system by pressing the function buttons (e.g., CD: **▶||** (or CD **▶** on the remote))
- changing the CD power manage function (page 20)
- switching the MD (VIDEO) function (page 39)
- changing the color system (page 8)

Tip

The timer continues to operate 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.

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/VIDEO CD without PBC function (Ver. 1.1)

Elapsed playing time of the current track →

Remaining time of the current track*¹ →

Remaining time of the current disc*² →

Track title of CD-TEXT disc*³ or track name of MP3 audio track → Album name of MP3 audio track (for a few seconds) → Clock display (for eight seconds) → Effect status

*¹ “_ _ _ _” appears when playing back MP3 audio tracks.

*² “_ _ _ _” appears in ALL DISCS, SHUFFLE, when playing the program containing more than 20 tracks or 100 minutes or when playing back MP3 audio tracks.

*³ When the disc contains more than 20 tracks, CD-TEXT is not displayed from track 21 on.

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

Elapsed playing time of the current track* →

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:

Total number of tracks or albums and total playing time of the current disc → CD-TEXT disc title or Volume label or Album name → Clock display (for eight seconds) → Effect status

Notes

- The display may not show all the characters depending on the disc.
- This player can display the disc titles and track titles from CD-TEXT discs or volume label and album name and track name of disc with MP3 audio tracks. Other information cannot be displayed.
- 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.
- In the following case, 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.

Changing the Power illuminator

Press ILLUMINATION.

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

PATTERN 1 → PATTERN 2 → PATTERN 3
→ PATTERN OFF (off)

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.

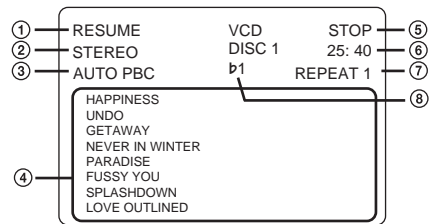
Press ON SCREEN on the remote.

Each time you press the 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



①

While the deck is:	Displayed
In stop mode	"RESUME" or no display
During playback	Current disc and track number

② KARAOKE effect status

("KARAOKE PON", "MPX L", "MPX R" or "STEREO")

③ Play mode or "AUTO PBC"*

(Ⓚ): All discs/Ⓛ: One disc/□: Album)

* "AUTO PBC" appears for a VIDEO CD with PBC functions.

④

While the deck is: Displayed

In stop mode of a MP3 audio tracks*

Album name

In Program Play mode

Programed disc and track number

During playback of a MP3 audio tracks*

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 in order to display the track name.

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.

⑦ “REPEAT”, “REPEAT 1” or no display

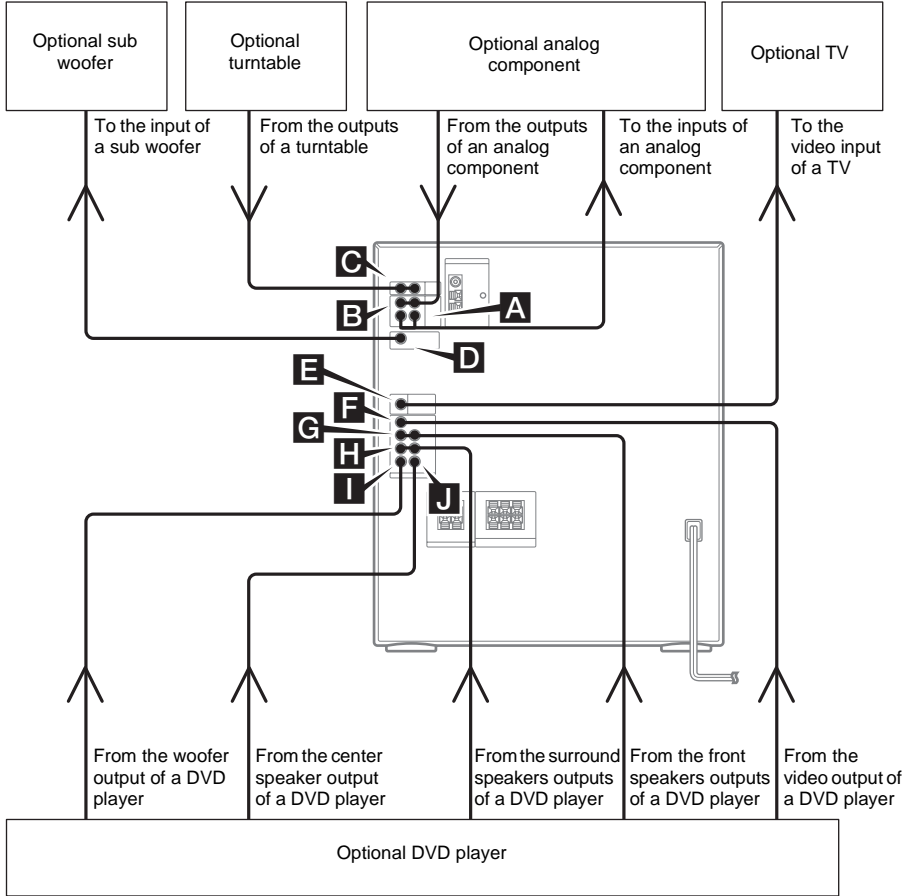
⑧ Key control level or no display

Notes

- Select ON SCREEN OFF 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.

Hooking up optional components

To enhance your system, you can connect optional components. Refer to the operating instructions provided with each component.



A MD (VIDEO) OUT L/R jacks

Use audio cords (not supplied) to connect an optional component (such as an MD deck or a VCR) to these jacks. You can then output audio to that component from this system.

B MD (VIDEO) IN L/R jacks

Use audio cords (not supplied) to connect an optional component (such as an MD deck or a VCR) to these jacks. You can then record or listen to analogue audio from that component through this system.

C PHONO IN L/R jacks

Use audio cords (not supplied) to connect an optional component (such as a turntable) to these jacks. You can then record or listen to analogue audio from that component through this system.

D SUB WOOFER OUT jack

Use an audio cord (not supplied) to connect an optional sub woofer to this jack.

E VIDEO OUT jack

Use a supplied video cord to connect an optional component (such as a TV) to this jack. You can then output video to that component from the connected video game through this system.

F DVD VIDEO INPUT jack

Use a video cord (not supplied) to connect an optional component (such as a DVD player) to this jack. You can then input video to from that component.

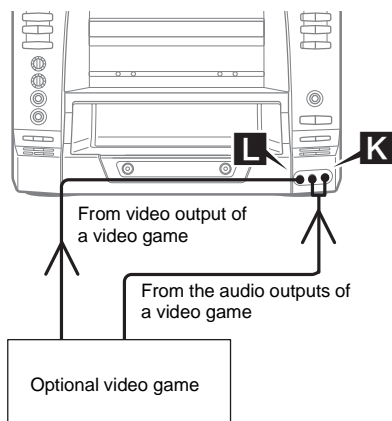
G DVD FRONT INPUT jacks

H DVD REAR INPUT jacks

I DVD WOOFER INPUT jack

J DVD CENTER INPUT jack

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



K GAME INPUT AUDIO L/R jacks

Use audio cords (not supplied) to connect an optional component (such as a video game or camcorder, etc.) to these jacks. You can then record or listen to analogue audio from that component through this system.

L GAME INPUT VIDEO jack

Use video cord (not supplied) to connect an optional component (such as a video game or camcorder, etc.) to this jack. You can then output video to the connected TV from that component through this system.

Notes

- Be sure to match the color of the plugs and the connectors.
- See “Selecting the audio emphasis effect” on page 26 for video game sound effects.
- If you press GAME in the left corner of the front panel while the system is off, the system turns on, the function switches to GAME, and the equalizer also switches to the GAME.
- If you press GAME in the left corner of the front panel while the system is on, the function switches to GAME and the equalizer automatically switches to the GAME in the same manner.
- Using a turntable at high volume may cause distortion or howling. This is often caused by the bass sound from the speakers. The bass sound may produce the distortion or howling. To avoid this, do the following:
 - Keep some distance from speakers to the turntable.
 - Stop using the surround effect.
 - Install the speakers or the turntable on a firm and stable surface.

Tip

You can enjoy 5.1 channel surround sound while playing a DVD (page 39).

Listening to audio from a connected component

Listening to an MD deck or VCR, etc.

1 Connect the audio cords.

See “Hooking up optional components” on page 37.

2 Press **FUNCTION** (or **FUNCTION + or – on the remote**) repeatedly until “**MD**” or “**VIDEO**” appears.

Start playing the connected component.

Notes

- Holding down **FUNCTION**, and then pressing **I/⏻** while the power is off automatically turns the power on and selects “**VIDEO**” as the function. When the system is in Power Saving Mode, this function does not work.
- 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**”.

Listening to a turntable, etc.

1 Connect the audio cords.

See “Hooking up optional components” on page 37.

2 Press **FUNCTION** (or **FUNCTION + or – on the remote**) repeatedly until “**PHONO**” appears.

Start playing the connected component.

Listening to a video game or camcorder, etc.

1 Connect the audio cords.

See “Hooking up optional components” on page 37.

2 Press **FUNCTION** (or **FUNCTION + or – on the remote**) repeatedly until “**GAME**” appears or press **GAME** in the left corner of the front panel.

Start playing the connected component.

Listening to a DVD player

1 Connect the audio cords.

See “Hooking up optional components” on page 37.

2 Press **FUNCTION** (or **FUNCTION + or – on the remote**) repeatedly until “**DVD**” appears.

Start playing the connected component.

To	Do this
Listen to 5.1CH analog audio	Press DVD 5.1CH repeatedly until the indicator of the button lights up.
Listen to stereo analog audio	Press DVD 5.1CH repeatedly until the indicator of the button goes off.

Notes

- Each time you press DVD 5.1CH, the function changes as follows:
DVD 5.1CH (indicator on)
↑
DVD (2 channel) (indicator off)
- 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 37.

2 Start recording manually.

See “Recording on a tape manually” on page 24.

Recording on a connected component

Making an analog recording

1 Connect the audio cords.

See “Hooking up optional components” on page 37.

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.

When the I/⏻ indicator flashes

Immediately unplug the power cord and check the following items.

- 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 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 7 of “Hooking up the system” (page 8)).

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

“- -: -” appears in the display.

- A power interruption has occurred. Set the clock (page 11) and timer settings (pages 31 and 32) again.

The clock setting/radio presetting/timer is canceled.

- Redo the following:
 - “Setting the clock” (page 11)
 - “Presetting radio stations” (page 19)
 - “Waking up to music” (page 31)
 - “Timer recording radio programs” (page 32)

There is no sound.

- Turn VOLUME control clockwise or press VOL + on the remote.
- Make sure the headphones are not connected.
- Check the speaker connections (page 7).
- There is no audio output when Timer recording starts.

There is no microphone sound.

- Turn VOLUME or MIC LEVEL to adjust the microphone volume.
- Make sure the microphone is connected to the MIC-1 or MIC-2 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 11).

The timer does not function.

- Check the timer setting and set the correct time (pages 32 and 33).
- Cancel the Sleep Timer Function (page 31).

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.
- 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.

VIDEO CD/CD/MP3 player

The disc tray does not rotate.

- Place the disc correctly.

There is no picture.

- Check that the player is connected securely.
- Make sure you operate the TV correctly.
- Make sure you set the color system correctly, according to your TV (color) system.
- Press FUNCTION (or FUNCTION + or – on the remote) repeatedly until “CD” appears.
- Make sure that GAME MIXING is canceled.

Play does not start.

- Open the disc tray and check whether a disc is loaded.
- Wipe the disc clean (page 45).
- Replace the disc.
- Place the disc that this system can play.
- 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 ►|| (or CD ► on the remote) to start play.

Disc access from tuner function takes a long time.

- Set “CD POWER ON” by CD power manage function (page 20).

The sound skips.

- Wipe the disc clean (page 45).
- 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 “PROGRAM” and “SHUFFLE” 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 file 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 and 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 (ver. 1.0 or 1.1).
- The characters that can be displayed by this unit are as follows:
 - Upper cases (A to Z)
 - Number (0 to 9)
 - Symbols (<> * +, - / [] \ _)

Other characters may not be displayed correctly.

Tuner

Severe hum or noise/stations cannot be received.

- Set the proper band and frequency (page 19).
- Connect the antenna properly (page 8).
- 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.
- Set “CD POWER OFF” by CD power manage function (page 20).

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 46).
- The record/playback heads are magnetised. Demagnetise them (page 46).

The tape does not erase completely.

- The record/playback heads are magnetised. Demagnetise them (page 46).

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

- The capstans or pinch rollers are dirty. Clean them (page 46).

Noise increases or the high frequencies are erased.

- The record/playback heads are magnetised. Demagnetise them (page 46).

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 46).
- 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:

- 1 Press **■** on deck B, TUNER ENTER and **I/⏻** at the same time.
- 2 Unplug the power cord.
- 3 Plug the power cord back in.
- 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

CANNOT EDIT

The selected disc contains more than 20 tracks or MP3 audio tracks.

NO STEP

You have cleared all the tracks you programmed.

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 have pressed PLAY MODE during playback.

STEP FULL

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

READING

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

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

OFF TIME NG

The Daily Timer or Timer Recording start and end times are set to the same time.

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 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.

Music discs encoded with copyright protection technologies

This product is designed to playback discs that conform to the Compact Disc (CD) standard.

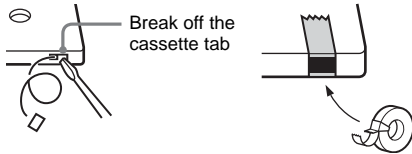
Recently, various music discs encoded with copyright protection technologies are marketed by some record companies. Please be aware that among those discs, there are some that do not conform to the CD standard and may not be playable by this product.

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

Front speaker:

The following measured at AC 120, 220, 240 V 50 Hz
DIN power output (rated): 150 + 150 watts

(6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference):

200 + 200 watts

(6 ohms at 1 kHz, 10% THD)

Center speaker:

DIN power output (rated): 35 watts

(8 ohms at 1 kHz, DIN)

Continuous RMS power output (reference):

50 watts

(8 ohms at 1 kHz, 10% THD)

Surround speaker:

DIN power output (rated): 35 + 35 watts

(8 ohms at 1 kHz, DIN)

Continuous RMS power output (reference):

50 + 50 watts

(8 ohms at 1 kHz, 10% THD)

Inputs

PHONO IN (phono jacks): sensitivity 3 mV,
impedance 47 kilohms

MIC-1/MIC-2 (phone jacks):

sensitivity 1 mV,

impedance 10 kilohms

GAME INPUT AUDIO (phono jacks):

sensitivity 250 mV,

impedance 47 kilohms

GAME INPUT VIDEO (phono jack):

1 Vp-p, 75 ohms

MD (VIDEO) IN (phono jacks):

sensitivity 450 mV

(250 mV), impedance

47 kilohms

DVD INPUT

FRONT, REAR, CENTER, WOOFER (phono jacks):

sensitivity 450 mV,

impedance 47 kilohms

DVD VIDEO INPUT (phono jack):

1 Vp-p, 75 ohms

Outputs

PHONES (stereo phone jack):	accepts headphones of 8 ohms or more
MD (VIDEO) OUT (phono jacks):	voltage 250 mV, impedance 1 kilohm
VIDEO OUT (phono jack):	max. output level 1 V _{p-p} , load impedance 75 ohms
SUB WOOFER OUT (phono jack):	voltage 1 V, impedance 1 kilohm
FRONT SPEAKER:	accepts impedance of 6 to 16 ohms
CENTER SPEAKER:	accepts impedance of 8 to 16 ohms
SURROUND SPEAKER:	accepts impedance of 8 to 16 ohms

CD player section

System	Compact disc digital audio system
Laser	Semiconductor laser ($\lambda=795$ nm) Emission duration: continuous
Frequency response	2 Hz – 20 kHz (± 0.5 dB)
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	40 – 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 (50 kHz step)
Antenna	FM lead antenna
Antenna terminals	75 ohms unbalanced
Intermediate frequency	10.7 MHz
AM tuner section	
Tuning range:	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-XGV11AV

Speaker system	3-way BUILT IN SW, magnetically shielded type
Speaker units	
Super Woofer/Woofers:	22 cm/20 cm dia., cone type
Tweeter:	2.5 cm dia., horn type
Rated impedance	6 ohms
Dimensions (w/h/d)	Approx. 305 × 610 × 435 mm
Mass	Approx. 15 kg net per speaker

Center speaker: SS-CT388

Speaker system	Full-range, bass-reflex type, magnetically shielded type
Speaker units	
Full range:	10 cm dia., cone type (2)
Rated impedance	8 ohms
Dimensions (w/h/d)	Approx. 360 × 130 × 170 mm
Mass	Approx. 2.7 kg

Surround speaker: SS-RS388

Speaker system	Full-range, bass-reflex type
Speaker units	
Full range:	10 cm dia., cone type
Rated impedance	8 ohms
Dimensions (w/h/d)	Approx. 180 × 130 × 170 mm
Mass	Approx. 1.5 kg net per speaker
General	
Power requirements	120 V, 220 V or 230 – 240 V AC, 50/60 Hz Adjustable with voltage selector
Power consumption	230 watts
Dimensions (w/h/d)	Approx. 355 × 425 × 451 mm
Mass	Approx. 15.4 kg
Supplied accessories:	AM loop antenna (1) FM lead antenna (1) Speaker cords (5) Speaker pads (12) Remote Commander (1) Batteries (2) Video cord (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 ►|| (or CD ► on the remote) 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 or VIDEO CD. Each track is assigned a track number enabling you to locate the track you want.

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.

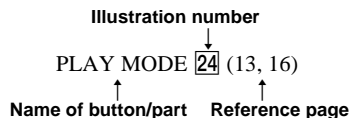
- Ver. 1.1: You can play only moving pictures and sounds.
- Ver. 2.0: You can play high-resolution still pictures and enjoy PBC functions.

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 - D

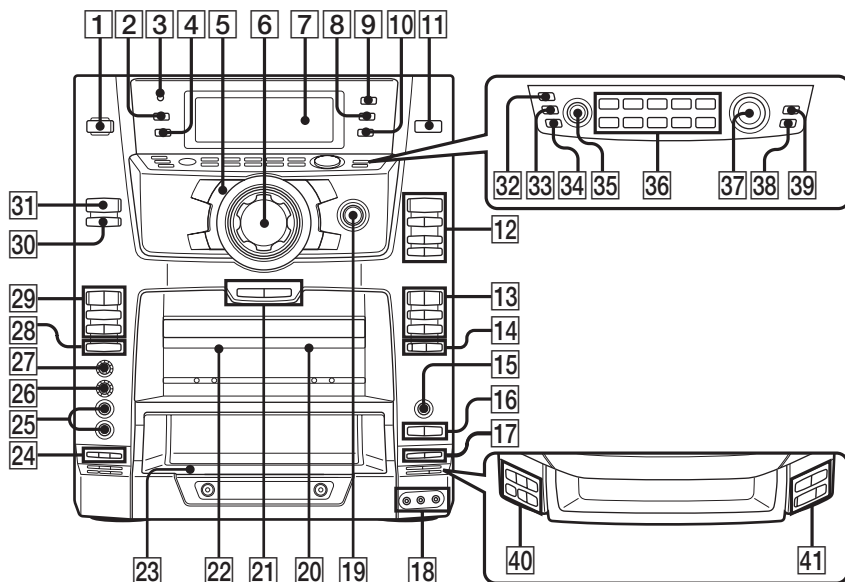
ALBUM +/- 16 (13, 16)
 CD SYNC 14 (23)
 Deck A 22 (22, 24, 29)
 Deck B 20 (22, 23, 24, 29)
 Direct equalizer 36 (8, 26, 29)
 SALSA/REGGAE/TANGO/
 MOVIE/GAME/SAMBA/
 ROCK/JAZZ/DANCE/POP
 DIRECTION 28 (22, 23, 24, 29)
 DISC 1 - 5 40 (13, 16)
 DISC SKIP 40 (12, 13, 16)
 Disc tray 23 (12)
 DISPLAY 2 (8, 33, 34)
 Display window 7
 DVD 5.1CH 32 (39)

E - L

ECHO LEVEL 27 (29)
 EDIT 24 (9, 23)
 EFFECT 39 (26, 29)
 ENTER 37 (11, 26, 31, 32)
 FM MODE 12 (21)
 FUNCTION 11 (9, 12, 15, 16, 20,
 23, 24, 28, 29, 39)
 GAME 31 (28, 38, 39)
 GAME INPUT AUDIO L/R jacks
 18 (38)
 GAME INPUT VIDEO jack 18
 (38)
 GAME MIXING 30 (28)
 ILLUMINATION 4 (35)
 KARAOKE/MPX 35 (29)

M - R

MEMORY 12 (19)
 MIC-1/MIC-2 jacks 25 (29)
 MIC LEVEL 26 (29)
 P FILE 38 (26)
 PHONES jack 15
 PLAY MODE 24 (13, 16)
 Power illuminator 5 (35)
 PRO LOGIC 34 (10, 27)
 PUSH OPEN 23 (12, 13)
 Remote sensor 3
 REPEAT 24 (16)



S - Z

SLEEP **9** (31)
 SURROUND **33** (27)
 TIMER SELECT **8** (32, 33)
 TUNER ENTER **12** (19)
 TUNER/BAND **12** (19, 20, 21, 24)
 TUNING MODE **12** (19, 20, 21)
 TUNING +/- **12** (19, 20, 21)
 VOLUME control **6** (10, 13, 31)
 X-GROOVE **19** (25)

BUTTON DESCRIPTIONS

I/⏻ (power) **1** (8, 20, 31, 39)
 ⏻/CLOCK SET **10** (11, 31, 32)
 ⏸ (pause) **13** (22, 23, 28, 29)
 ◀/▶ (play) **13** **29** (22, 23, 29)
 ■ (stop) **13** **29** (22, 23, 29)
 ⏮⏮⏮/▶▶▶▶ (rewind/fast forward) **13** **29** (22)
 ● REC **14** (24, 29)
 ⏮⏮/▶▶▶ (go back/go forward) **17** (13)
 ⬆/⬇/⬅/➡ (cursor) **37** (10, 26, 31)
 ⏮⏮/▶▶▶ (rewind/fast forward) **41** (13)
 ▶▶⏸ (play/pause) **41** (13, 29)
 ■ (stop) **41** (13, 20)
 A EJECT ▲/▲ B EJECT (eject) **21** (22)

Remote control

ALPHABETICAL ORDER

A - N

- ALBUM +/- **20** (13, 16)
- CENTER LEVEL +/- **12** (10)
- CLEAR **24** (17)
- CLOCK/TIMER SELECT **37** (32, 33)
- CLOCK/TIMER SET **38** (11, 31, 32)
- DISC SKIP **35** (12, 13, 16)
- DISPLAY **36** (8, 33, 34)
- DVD 5.1CH **13** (39)
- EFFECT **6** (26, 29)
- ENTER **11** (11, 26, 31, 32)
- FILE SELECT +/- **8** (26)
- FUNCTION +/- **34** (9, 12, 15, 16, 20, 23, 24, 28, 29, 39)
- NEXT **32** (13, 15, 18)
- Number buttons **25** (14, 15, 17, 18, 20)

O - Z

- ON SCREEN **23** (35)
- PLAY MODE **19** (13, 16)
- PRESET +/- **32** (20)
- PREV **32** (13, 15, 18)
- PRO LOGIC **31** (10, 27)
- REPEAT **18** (16)
- SELECT **33** (15, 17)
- SLEEP **21** (31)
- SPECIAL MENU **5** (17, 18)
- SURR **14** (27)
- SURR LEVEL +/- **9** (10)
- TEST TONE **30** (10)
- TUNER/BAND **16** (19, 20, 21, 24)
- TUNING +/- **28** (19, 20, 21)
- TV CH +/- **3** (9)
- TV/VIDEO **4** (9)
- TV VOL +/- **2** (9)
- VOL +/- **10** (10, 13, 31)

BUTTON DESCRIPTIONS

- I/⏻ (power) **1** (8, 20, 31)
- ↑/↓/←/→ (cursor) **11** (10, 26, 31)
- ⏸ (pause) **26** (13, 22, 23, 28, 29)
- (stop) **27** (13, 22, 23, 29)
- ◀◀/▶▶ (rewind/fast forward) **28** (13, 22)
- ◀◀/▶▶ (go back/go forward) **32** (22)
- CD ▶ (play) **33** (13, 29)
- KEY CONTROL #/b **29** (29)
- RETURN ↻ **17** (15)
- TAPE A ◀▶ (play) **15** (22, 29)
- TAPE B ◀▶ (play) **7** (22, 23)
- TV I/⏻ **22** (9)

