

Compact Hi-Fi Stereo System

Operating Instructions



Game SYNC

***LBT-XG900AV
LBT-XG100AV***

WARNING

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

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

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



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

To prevent fire, do not cover the ventilation of the apparatus with newspapers, 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.



Don't throw a battery, dispose it as the injurious wastes.

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

* Manufactured under license from Dolby Laboratories.

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

Table of Contents

Parts Identification

Main unit	4
Remote control	5

Getting Started

Hooking up the system	6
Inserting two size AA (R6) batteries into the remote	8
Setting up the speakers for Dolby Pro Logic	9
Setting the time	10
Saving the power in standby mode	10

CD

Loading a CD	11
Playing a CD	
— Normal Play/Shuffle Play/Repeat Play	11
Playing CDs without interruption	
— Non-Stop Play	12
Programming the CD tracks	
— Program Play	12
DJ Effects	13
Using the CD display	13

Tuner

Presetting radio stations	14
Listening to the radio	
— Preset Tuning	15
Using the Radio Data System (RDS)* ...	15

Tape

Loading a tape	17
Playing a tape	17
Recording to a tape	
— CD Synchro Recording/High Speed Dubbing/Recording Manually/Program Edit	18
Timer-recording radio programs	19

Sound Adjustment

Adjusting the sound	21
Selecting the audio emphasis effect	21
Selecting the surround effect	21
Making a personal audio emphasis file	
— Personal File	22
Enjoying Dolby Pro Logic surround sound	22

Other features

Changing the spectrum analyzer display	23
Singing along: Karaoke	23
Playing a guitar	24
Enhancing video game sound	
— Game Sync	24
Falling asleep to music	
— Sleep Timer	24
Waking up to music	
— Daily Timer	25

Hooking up optional components

Connecting an MD deck/VCR/camcorder/video game	26
Connecting a turntable/mixer/subwoofer	27
Connecting a TV/DVD player	28

Additional Information

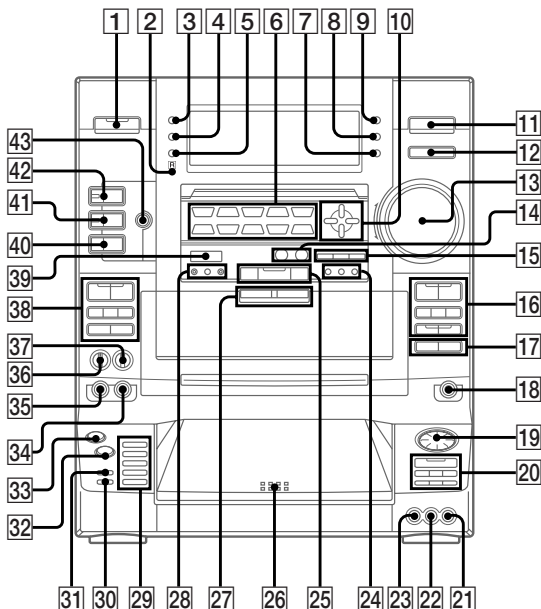
Precautions	29
Troubleshooting	30
Specifications	32

* For European models only

The items are arranged in alphabetical order.

Refer to the pages indicated in parentheses () for details.

Main unit



A EJECT ▲/B EJECT 27 (17)
 AUDIO L jack 22 (26)
 AUDIO R jack 21 (26)
 CD SYNC 17 (18,19)
 DIRECT EQUALIZER 6 (21)
 SALSA REGGAE
 SAMBA TANGO
 MOVIE GUITAR
 ROCK JAZZ
 DANCE GAME
 DIRECTION 38 (17~19,23)
 DISC SKIP 20 (11,12,19)
 DISC 1~5 29 (11)
 DISPLAY 4 (10,13,15)
 DOLBY NR 38 (17,18)
 DSP 43 (21)
 DVD 5.1 CH 14 (28)
 EDIT 31 (19)
 ENTER 28 (14,16)
 ENTER/NEXT 15
 (10,19,20,22,25,32)
 FLASH 32 (13)
 FLAT 15 (21)
 FUNCTION 11
 (8,11,12,18,19,23,26,27)

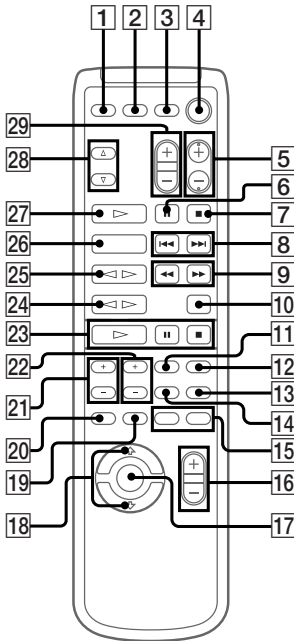
GAME 12 (24,26)
 GROOVE 42 (21)
 GUITAR DISTORTION 28 (24)
 GUITAR jack 34 (24)
 GUITAR LEVEL 37 (24)
 H SPEED DUB 17 (18)
 IR receptor 2
 Jog dial (AMSI◀◀/▶▶) 19
 LOOP 33 (8,13)
 MIC LEVEL 36 (23)
 MIX GUITAR/KARAOKE 39 (23,24)
 MIX MIC jack 35 (23)
 NON STOP 30 (12)
 P.FILE 15 (21,22)
 PHONES jack 18
 PLAY MODE 20 (11,12,19)
 POWER SAVE/DEMO
 (STANDBY) 3 (10)
 PRO LOGIC 14 (10,22)
 PTY 24 (16) *European model only
 PUSH OPEN 26 (11)
 REPEAT 20 (11)
 SLEEP 8 (24)
 SPECTRUM ANALYZER 5 (23)

STEREO/MONO 24 (15)
 SUPER WOOFER 41 (21,27)
 SUPER WOOFER MODE 40 (21)
 TIMER SELECT 9 (20,25)
 TUNER/BAND 25 (14,15,18)
 TUNER MEMORY 28 (14)
 TUNING MODE 24 (14,15)
 VIDEO jack 23 (26)
 VOLUME control 13 (15)

BUTTON DESCRIPTIONS

⏻/⏹ 1
 ⌚/CLOCK SET 7
 ▲/▼/▶/◀ 10
 ● REC 16
 ⏸ 16
 ◀◀/▶▶, AMSI◀◀/▶▶
 (TAPE A/B) 16/38
 ◀/▶ 16/38
 ■ 16/20/38
 ◀◀/▶▶ (CD) 20
 ▶◀ 20
 +/- 25

Remote control



- CD ▷ [27] (11)
- CENTER LEVEL +/- [21] (10)
- CHECK [20] (12)
- CLEAR [19] (12)
- DECK A ◀▶ [25] (17)
- DECK B ◀▶ [24] (17)
- D.SKIP [10] (11,12,19)
- DSP [12] (21)
- FILE SELECT ON/OFF [17] (21)
- FILE SELECT ⚡/⚡ [18] (13)
- FLASH [15] (13)
- FUNCTION [28] (8,11,12,18,19,23,26,27)
- LOOP [15] (13)
- MD ▷ [23] (11)
- MD || [23] (11)
- MD ■ [23] (11)
- PRO LOGIC [11] (10,22)

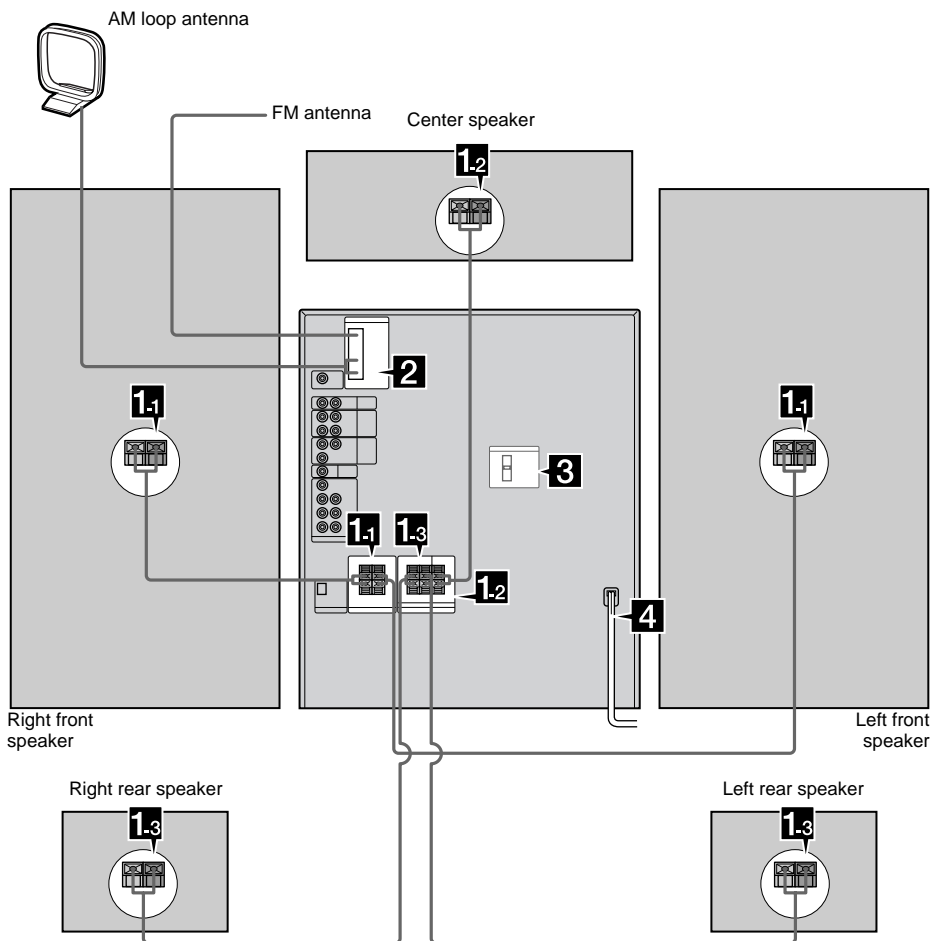
- REAR LEVEL +/- [22] (10)
- SLEEP [1] (24)
- SUPER WOOFER [13] (21,27)
- T.TONE [14] (10)
- TUNER/BAND [26] (14,15,18)
- TUNING +/- [5] (15)
- TV CH +/- [5] (28)
- TV/VIDEO [2] (28)
- TV VOL +/- [29] (28)
- TV I/⏻ [3] (28)
- VOL +/- [16] (15)

BUTTON DESCRIPTIONS

- I/⏻ [4]
- || [6]
- [7]
- ◀◀/▶▶ [8]
- ◀◀/▶▶ [9]

Hooking up the system

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

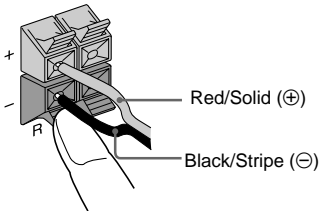


1 Connect the speakers.

1 Connecting the front speakers

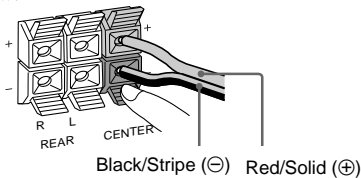
Connect the speaker cords to the FRONT SPEAKER jacks as below.

Insert only the stripped portion.



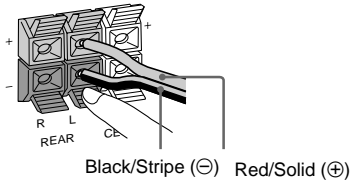
2 Connecting the center speaker

Connect the speaker cords to the SURROUND SPEAKER CENTER jack as below.



3 Connecting the rear speakers

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

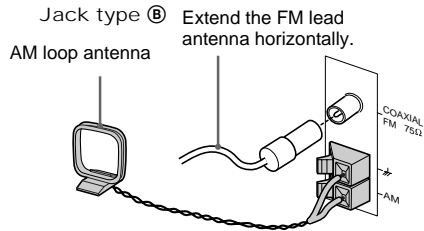
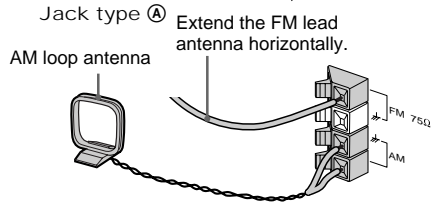
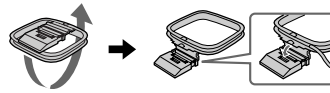


Note

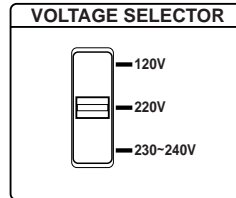
Keep the speaker cords away from the antennas to prevent noise.

2 Connect the FM/AM antennas.

Set up the AM loop antenna, then connect it.



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



4 Connect the power cord to a wall outlet.

The demonstration appears in the display. When you press I/⏻, the system turns on and the demonstration automatically ends. If the supplied adaptor on the plug does not fit your wall outlet, detach it from the plug (only for models equipped with the adaptor).

continued

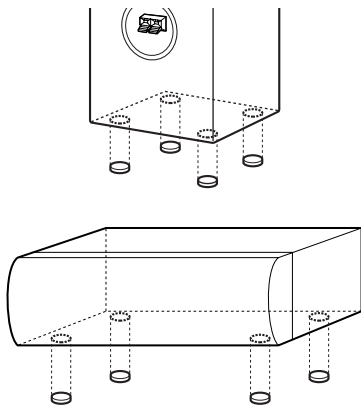
Hooking up the system (continued)

When carrying this system
Do the following to protect the CD mechanism.
Make sure that all discs are removed from the unit.

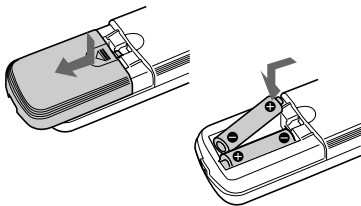
- 1 Press FUNCTION repeatedly until "CD" appears.
- 2 Hold down LOOP and press I/⏻ to turn off the system.
"LOCK" appears in the display.
It is now safe for transportation.

Before connecting the Center and Front speakers

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



Inserting two size AA (R6) batteries into the remote



Tip

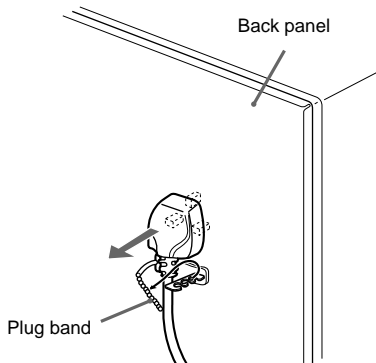
When the remote no longer operates the system, replace both batteries with new ones.

Note

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

Notice for customers in the United Kingdom

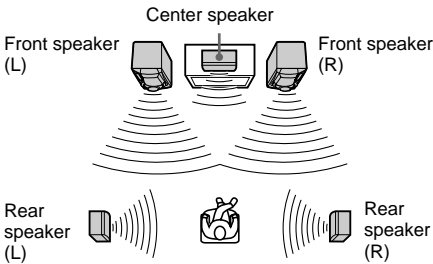
The AC power cord has been fixed temporarily on the rear panel with the plug band for shipment. Unlock the plug band to remove the plug.



Setting up the speakers for Dolby Pro Logic

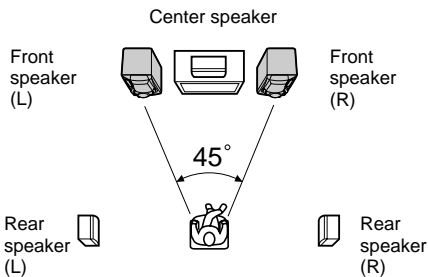
Dolby Pro Logic Surround improves the sound image by using four separate channels. These channels manipulate the sound to enhance the action as it happens on the screen.

Since the center speaker cannot produce enough bass, the bass sound of the center channel is output from the front speakers.

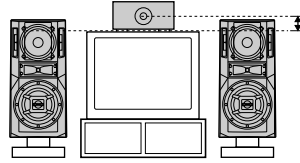


Positioning the center and rear speakers

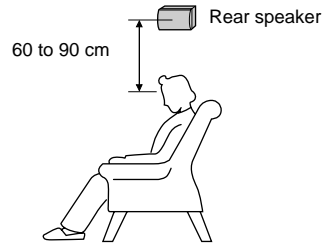
- 1 Place the front speakers at an angle of 45 degrees from your listening position.**



- 2 Place the center speaker so it is placed at about the same height as the front speakers. Align the center speaker with the front speakers or place it a little behind the front speakers' position.**



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



continued

Setting up the speakers for Dolby Pro Logic (continued)

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 button lights up.

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

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

LEFT → CENTER → RIGHT →
REAR →

- 3 From your listening position, press **CENTER LEVEL +/-** and **REAR LEVEL +/-** on the remote to adjust the volume levels.

The volume levels from each speaker should be the same.

- 4 Press **T. TONE** when you are done adjusting.

The test tone is turned off.

Setting the time

- 1 Turn on the system.
- 2 Press **CLOCK SET**.
When you set the time for the first time, skip to step 5.
- 3 Press **▲/▼** repeatedly to select “**SET CLOCK.**”
- 4 Press **ENTER/NEXT**.
- 5 Press **▲/▼** repeatedly to set the hour.
- 6 Press **ENTER/NEXT**.
The minute indication flashes.
- 7 Press **▲/▼** repeatedly to set the minute.
- 8 Press **ENTER/NEXT**.
The clock starts working.

Tip

If you’ve made a mistake or want to change the time, start over from step 2.

Note

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

Saving the power in standby mode

Press **POWER SAVE/DEMO (STANDBY)** when the power is off. Every time you press the button, the system switches as follows:

Power Saving Mode ↔ Demonstration

The system is turned on/off by pressing **I/⏻**.

Tips

- The **I/⏻** indicator lights up even in the Power Saving Mode.
- The timer works in the Power Saving Mode.
- Everytime you press **DISPLAY** when the power is off, the display changes as follows:
Demonstration ↔ Clock

Note

You cannot set the time in the Power Saving Mode.

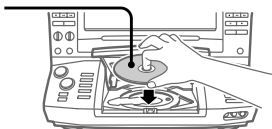
To cancel the Power Saving Mode

Press **POWER SAVE/DEMO (STANDBY)** to show the demonstration.

Loading a CD

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

When you play a CD single, place it on the inner circle of the tray.



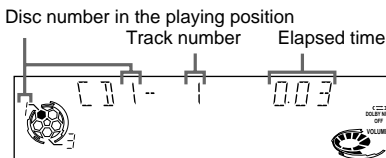
To insert additional discs, press **DISC SKIP** (or **D.SKIP** on the remote) to rotate the disc tray.

- 3 Close the front cover.

Playing a CD

—Normal Play/Shuffle Play/Repeat Play

This unit lets you play CDs in different play modes.



- 1 Press **FUNCTION** repeatedly until “**CD**” appears.
- 2 Press **PLAY MODE** repeatedly until the mode you want appears.

Select	To play
ALL DISCS	All CDs in the disc tray continuously.
1 DISC	The CD you selected in the original order.
ALL DISCS SHUFFLE	The tracks on all CDs in random order.
1 DISC SHUFFLE	The tracks on the CD you selected in random order.
PROGRAM	The tracks on all CDs in the order you want them to be played (see “Programming the CD tracks” on page 12).

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

Other Operations

To	Do this
Stop playback	Press ■ .
Pause	Press ▷ (or on the remote). Press again to resume play.
Select a track	During play or pause, turn the jog dial clockwise (to go forward) or counterclockwise (to go backward) (or press ◀◀ (to go forward) or ▶▶ (to go backward) on the remote).
Find a point in a track	Press and hold ▶▶ or ◀◀ during playback, and release at the desired point.
Select a CD	Press DISC 1~5 or DISC SKIP (or D.SKIP on the remote).
Switch to CD function from another source	Press DISC 1~5 or ▷ (or CD ▷ on the remote) (Automatic Source Selection).
Play repeatedly (Repeat Play)	Press REPEAT during playback until “ REPEAT ” or “ REPEAT1 ” appears. REPEAT : For all the tracks on the CD. REPEAT1 : For a single track only. To cancel playing repeatedly, press REPEAT until “ REPEAT ” or “ REPEAT1 ” disappears.
Remove the CD	Press PUSH OPEN .

Tip

You can change the CD in the loading position during playback of the CD in the playing position.

Playing CDs without interruption

— Non-Stop Play

You can play CDs without pausing between tracks.

- 1 Press **FUNCTION** repeatedly until “CD” appears.
- 2 Press **NON STOP** so that the indicator on this button lights up.
- 3 Press **▷||**.

To cancel Non-Stop Play

Press **NON STOP** so that the indicator on this button goes off.

Programming the CD tracks

— Program Play

You can make a program of up to 32 tracks from all the CDs in the order you want them to be played.

- 1 Press **FUNCTION** repeatedly until “CD” appears.
- 2 Press **PLAY MODE** repeatedly until “PROGRAM” appears.
- 3 Press **DISC SKIP** (or **D.SKIP** on the remote) to select a CD.
- 4 Turn the jog dial until the track you want appears.
- 5 Press **PLAY MODE** once.
The track is programmed. First “STEP” and the programmed playing order appear, then the total playing time appears.
- 6 To program additional tracks, repeat steps 3 to 5.
Skip step 3 to select tracks from the same disc.
- 7 Press **▷||**.

To	Press
Cancel Program Play	PLAY MODE repeatedly until “PROGRAM,” “ALL DISCS SHUFFLE,” or “1 DISC SHUFFLE” disappears.
Check the program	CHECK on the remote repeatedly. After the last track, “CHECK END” appears.
Clear a track from the end	CLEAR on the remote in stop mode.
Clear a specific track in stop mode	CHECK on the remote repeatedly until the number of the track to be erased lights up, then press CLEAR .
Add a track to the program in stop mode	<ol style="list-style-type: none">1 Press DISC SKIP (or D.SKIP on the remote) to select a CD.2 Turn the jog dial to select a track.3 Press PLAY MODE.
Clear the entire program	■ once in stop mode or twice while playing.

Tips

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

DJ Effects

Looping and flashing part of a CD

With the loop function, you can repeat part of a CD during playback. With the flash function, you can “flash” part of a CD sound during playback. Both functions let you create original recordings.

To	Do this
Start the function at the point you want	Press and hold LOOP or FLASH during playback.
Resume normal play	Release LOOP or FLASH.
Adjust the function length (LOOP lengths or FLASH lengths)	Turn the jog dial while holding LOOP or FLASH (or press FILE SELECT \hat{c}/\hat{c} while holding LOOP or FLASH on the remote).
Use FLASH and LOOP together	Press and hold both LOOP and FLASH at the same time.

Notes

- Adjust the loop and flash lengths independently before using the functions if necessary.
- To record the loop or flash effect, use the tape deck on this unit.

Using the CD display

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

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

Press DISPLAY.

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

During normal playback

Playing time on the current track →

Remaining time on the current track →

Remaining time on current CD (1 DISC mode)

or “-.-” display (ALL DISCS mode) → Title

name of the current track* → Clock display

(for a few seconds) → Effect status

In the stop mode

When the CD player is in program mode and there is a program:

The last track number of the program and the

total playing time → The last track number of

the current CD and the total playing time →

Clock display (for a few seconds) → Effect

status

In other conditions:

The current disc number → Disc title* → The

artist information* → Total number of tracks

and total playing time → Clock display (for a

few seconds) → Effect status

* With CD TEXT discs only (certain characters cannot be displayed). When the CD contains more than 20 tracks, CD TEXT is not displayed from track 21 on.

Notes

- The display may not show all the characters depending on the disc.
- This player can only display the disc titles, track titles and artist names from CD TEXT discs. Other information cannot be displayed.

Presetting radio stations

You can preset 20 stations for FM and 10 stations for AM.

1 Press TUNER/BAND repeatedly until the band you want appears.

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

FM ↔ AM

2 Press TUNING MODE repeatedly until “AUTO” appears.

3 Press +/- until the frequency indication starts to change.

Scanning stops when the system tunes in a station. “TUNED” and “STEREO” (for a stereo program) appear.



4 Press TUNER MEMORY.

The next available preset number flashes in the display. The stations are stored from preset number 1.



5 Press ENTER.

“COMPLETE” appears and the station is stored.

6 Repeat steps 1 to 5 to store other stations.

To tune in a station with a weak signal

Press TUNING MODE repeatedly until “MANUAL” appears in step 2, then press +/- to tune in the station.

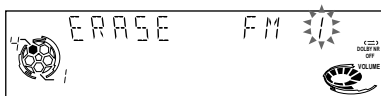
To set another station to the existing preset number

Start over from step 1. After step 4, press +/- to select the preset number you want to store for another station.

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

To erase the preset station

1 Hold down TUNER MEMORY until a preset number appears.



2 Press +/- to select the preset number you want to erase.

Select “ALL ERASE” when you want to erase all the preset stations.

3 Press ENTER.

“COMPLETE” appears.

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

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

The AM tuning interval is factory set to 9 kHz (10 kHz in some areas). To change the AM tuning interval, tune in any AM station first, then turn off the power. While holding down the ENTER button, turn the power back on. When you change the interval, AM preset stations will be erased. To reset the interval, repeat the same procedure.

Tip

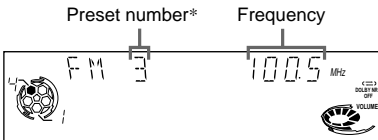
The preset stations are retained for half a day even if you unplug the power cord or if a power failure occurs.

Listening to the radio

— Preset Tuning

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

- 1 Press **TUNER/BAND** repeatedly until the band you want appears.
- 2 Press **TUNING MODE** repeatedly until "PRESET" appears.
Each time you press this button, the tuning mode changes cyclically as follows:
MANUAL → AUTO → PRESET
- 3 Press **+/-** (or **TUNING +/-** on the remote) to tune in the preset station you want.



* When only one station is preset, "ONE PRESET" appears.

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

To listen to non-preset radio stations Press **TUNING MODE** repeatedly in step 2 until "MANUAL" appears, then press **+/-** to tune in the desired station.

Tips

- When an FM program is noisy, press **STEREO/MONO** so that "MONO" appears. There will be no stereo effect, but the reception will improve.
- To improve broadcast reception, reorient the antennas.

Using the Radio Data System (RDS)

(For European model only)

What is the Radio Data System?

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

Note

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

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

Receiving RDS broadcasts

Simply select a station from the FM band.

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

To check the RDS information

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

Station name* → Frequency → Program type* → Clock display → Effect status

* If the RDS broadcast is not received, the station name and program type may not appear in the display.

continued

Using the Radio Data System (RDS)

(continued)

Locating a station by program type (PTY)

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

The types of programs include NEWS, AFFAIRS (current news), INFORMATION, SPORT, EDUCATION (education programs), DRAMA, CULTURE, SCIENCE, VARIED (interviews, games and comedy), POP, ROCK, EASY MUSIC (Easy listening), L.CLASSICAL (Classical music, such as instrumental, vocal, and choral works), S.CLASSICAL, OTHER MUSIC (music, such as rhythm and blues and reggae), WEATHER, FINANCE, CHILDREN, SOCIAL, RELIGION, PHONE IN, TRAVEL, LEISURE, JAZZ, COUNTRY (country music), NATION (nation's popular music), OLDIES, FOLK, DOCUMENTARY (investigative features), ALARM TEST (test signal for emergency broadcast), ALARM-ALARM (emergency broadcast), and NONE (any programs not defined above).

1 Press PTY while listening to the radio.

2 Press +/- to select the program type you want.

3 Press ENTER.

“SEARCH” and the selected program type are shown alternately in the display.



When the tuner receives a program, the preset station number flashes.

4 Press +/- to continue searching for the station number you want.

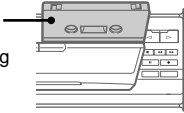
5 Press ENTER while the preset station number you want is flashing.

To stop the search while it is in progress
Press PTY.

Loading a tape









- 1 Press **A EJECT**  or **B EJECT** .
- 2 Insert a tape in deck A or B with the side you want to play facing forward.

Insert with the side you want to play/record facing forward.











Playing a tape

You can play any type of tape. TYPE I (normal), TYPE II (CrO₂), or TYPE IV (metal). The deck automatically detects the tape type.

- 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 **DECK A** , **DECK B**  on the remote).
Press  (or **DECK A** , **DECK B**  on the remote) to play the reverse side. The tape starts playing.



* Relay Play always follows this cyclical sequence:
Deck A (front side) → Deck A (reverse side) →
Deck B (front side) → Deck B (reverse side)

To	Do this
Stop play	Press  .
Pause (deck B only)	Press  Press again to resume play.
Fast-forward	Press  or  in stop mode.
Rewind	Press  or  in stop mode.
Remove the cassette	Press A EJECT  (or B EJECT  .

Tips

- The deck stops automatically after repeating the sequence five times.
- You can fast-forward or rewind the tape, regardless of the selected source.
- When you want to reduce the hiss noise in low-level high-frequency signals, press **DOLBY NR** so that “DOLBY NR B” appears.

Searching for the beginning of a track (AMS)

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

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

Example: searching forward 2 songs

TAPE A   +2

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 unit is placed near a television.

Recording to a tape

— CD Synchro Recording/High Speed Dubbing/Recording Manually/ Program Edit

You can record from a CD, tape, or radio. You can use TYPE I (normal) or TYPE II (CrO₂) tapes. The recording level is adjusted automatically.

Steps	Recording from a CD (CD Synchro Recording)	Recording from a tape (High-Speed Dubbing)	Recording Manually
1	Insert a recordable tape into deck B.		
2	Press FUNCTION repeatedly until “CD” appears.	Press FUNCTION repeatedly until “TAPE” appears.	Press FUNCTION or TUNER/BAND repeatedly until the source or band you want to record appears.
3	Insert the CD you want to record.	Insert the tape you want to record into deck A.	Insert the CD/tape, or tune to the station you want to record.
4	Press CD SYNC.	Press H SPEED DUB.	Press ● REC.
	DECK B stands by for recording. To reduce the hiss noise in low-level high frequency signals, press DOLBY NR so that “DOLBY NR B” appears in the display (except when recording from a tape).		
5	Press DIRECTION repeatedly to select ↔ to record on one side. Select ↔↔ (or RELAY) to record on both sides.		
6	Press II . Recording starts.		
7			Start playing the source to be recorded.

To stop recording

Press **■**.

Tips

- When you want to record on the reverse side, press **◀** after pressing **● REC** so that the indicator on the **◀** button (for the reverse side) lights up green.
- 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 **↔↔** when the tapes you use have different lengths, the tapes in each deck reverse independently. If you select **RELAY**, the tapes in both decks reverse together.
- To record with the surround effect, press **DSP** so that “SUR(|||||■)” appears.
The equalizer setting effects will not be recorded.
- For recording from the radio:
If noise is heard while recording from the radio, move the respective antenna to reduce the noise.

Recording a CD by specifying track order

— Program Edit

When programming, make sure the playing times for each side do not exceed the length of one side of the tape.

- 1 **Load CDs and a recordable tape into deck B, then press FUNCTION repeatedly until “CD” appears.**
- 2 **Press PLAY MODE repeatedly until “PROGRAM” appears.**
- 3 **Select a CD and track by pressing DISC SKIP (or D.SKIP on the remote) and turning the jog dial, then press PLAY MODE once.**
Repeat this procedure to program the remaining tracks for side A.
- 4 **Press II on the remote to insert a pause at the end of side A.**
“P” appears and the total playing time resets to “0.00” in the display.
- 5 **Repeat step 3 to program the remaining tracks to be recorded on side B.**
- 6 **Press CD SYNC.**
Deck B stands by for recording.
- 7 **Press DIRECTION repeatedly to select \rightleftarrows to record on one side. Select \leftrightarrow (or RELAY) to record on both sides.**
- 8 **Press II.**
Recording starts.
- 9 **Press ■ on the deck B and the CD player to stop recording.**

Tip

To check the required tape length for recording a CD, press EDIT so that “EDIT” flashes after you have loaded a CD and switched the function to CD. The required tape length for the currently selected CD appears, followed by the total playing time for side A and side B respectively (Tape Select Edit).

Notes

- You cannot use Tape Select Edit for discs containing over 20 tracks.
- You cannot use this function when Program Play mode has been set. After clearing the entire program, follow the above procedure.

Timer-recording radio programs

To timer-record, you must preset the radio station (see “Presetting radio stations” on page 14) and set the clock (see “Setting the time” on page 10) beforehand.

- 1 **Tune in the preset radio station (see “Listening to the radio” on page 15).**
- 2 **Press \odot /CLOCK SET.**
- 3 **Press $\blacktriangle/\blacktriangledown$ repeatedly to select “REC,” then press ENTER/NEXT.**
“ON” appears and the hour indication flashes in the display.
- 4 **Set the time to start recording.**
Press $\blacktriangle/\blacktriangledown$ to set the hour, then press ENTER/NEXT.
The minute indication starts flashing.
Press $\blacktriangle/\blacktriangledown$ to set the minute, then press ENTER/NEXT.
The hour indication flashes again.
- 5 **Set the time to stop recording following the above procedure.**
The start time appears, followed by the stop time, the preset radio station to be recorded (e.g., “TUNER FM 5”), then the original display appears.
- 6 **Insert a recordable tape into deck B.**
- 7 **Turn off the power.**
When the recording starts, the volume level is set to minimum.

continued

Timer-recording radio programs (continued)

To	Do this
Check the setting	Press TIMER SELECT, then press ▲/▼ to select “SEL REC,” then press ENTER/NEXT. To change the setting, start over from step 1.
Cancel timer operation	Press TIMER SELECT, then press ▲/▼ to select “TIMER OFF,” then press ENTER/NEXT.

Notes

- The system turns on 15 seconds before the preset time.
- If the system is on at the preset time, the Timer recording will not be made.
- When you use the Sleep Timer, Daily Timer and Timer recording will not turn on the system until the Sleep Timer turns it off.
- Recording starts from the front side.

Adjusting the sound

To reinforce lower bass sound (SUPER WOOFER)

Press SUPER WOOFER.

Each time you press this button, the super woofer level display changes cyclically as follows:

SUPER WOOFER FLAT → LOW → HIGH

To select the super woofer mode

Press SUPER WOOFER MODE while the super woofer is on.

Each time you press this button, the super woofer mode display changes as follows:

MODE MOVIE ↔ MODE MUSIC

For a powerful sound (GROOVE)

Press GROOVE.

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

Press GROOVE again to return to the previous volume.

Note

Canceling the Groove mode cancels the equalizer curve and super woofer level. Adjust the equalizer settings to obtain the desired effect.

Selecting the audio emphasis effect

Selecting the preset effect from the music menu

Press DIRECT EQUALIZER button you want.

The preset effect name appears.

See the chart “Music menu options.”

To	Press
Select USER FILE	P.FILE
Cancel the effect	FLAT (or FILE SELECT ON/OFF on the remote)

Music menu options

“SUR(|||||■||||)” appears if you select an effect with surround effects.

Effect	For
SALSA	standard music sources
REGGAE	
SAMBA	
TANGO	
MOVIE	
DANCE	soundtracks and special listening situations
JAZZ	
ROCK	
GAME	soundtracks and special listening situations
GUITAR	

Selecting the surround effect

Press DSP until the desired DSP mode appears in the display.

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

DSP OFF: Deactivates the DSP 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.

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

Note

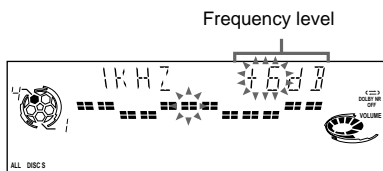
If you choose other sound effects, the surround effect will be canceled. To retain the effect, store it in a personal file (see “Making a personal audio emphasis file” on page 22).

Making a personal audio emphasis file

— *Personal File*

You can create personal files 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, CD, or radio program. Before operating, first select the basic audio emphasis you want for your sound.

- 1 Press ◀/▶ to select the frequencies, then press ▲/▼ to adjust the level.



- 2 Press ENTER/NEXT.

This setting is automatically stored as P.FILE.

Any settings previously stored at this memory location are erased and replaced by the new settings.

To call up the personal file

Press P.FILE.

Tip

If you choose another audio emphasis, the adjusted sound effect is lost. To retain the adjusted sound effect, press P.FILE.

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 up the speakers for Dolby Pro Logic” on page 9).

- 1 Press PRO LOGIC so the indicator lights up.
- 2 Play a program source.

To turn off the Dolby Pro Logic Surround sound

Press PRO LOGIC so 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.

Changing the spectrum analyzer display


Press SPECTRUM ANALYZER.

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


IMAGE ILLUMINATION → IMAGE →
NORMAL ILLUMINATION → NORMAL

Singing along: Karaoke

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

- 1 Turn **MIC LEVEL** to **MIN** to turn down the microphone control level.
- 2 Connect an optional microphone to **MIX MIC**.
- 3 Press **MIX GUITAR/KARAOKE**.
Each time you press the button, the display changes as follows:
MIX GUITAR/KARAOKE ↔ OFF or audio emphasis name
The  indicator appears when karaoke mode is activated.
To sing karaoke by decreasing the vocal level of a CD or tape, select "MIX GUITAR/KARAOKE."
- 4 Start playing the music and adjust the volume.
- 5 Adjust the microphone volume by turning **MIC LEVEL**.



After you have finished

Turn **MIC LEVEL** to **MIN** and disconnect the microphone from **MIX MIC**, then press **MIX GUITAR/KARAOKE** repeatedly until "" disappears.

Notes

- With some songs, vocals may not be canceled when you select "MIX GUITAR/KARAOKE."
- During MIX GUITAR/KARAOKE, equalizer and surround settings cannot be changed.
- If you select 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.

Mixing and recording sound

- 1 Do the procedure for "Singing along" (steps 1 through 5). Then, load a recordable tape in deck B.
- 2 Press **FUNCTION** repeatedly to select the source you desire and set it to pause mode.
- 3 Press **● REC**.
- 4 Press **DIRECTION** repeatedly to select  to record on one side. Select  (or **RELAY**) to record on both sides.
- 5 Press **II**.
- 6 Press **▷ II** to start playing the CD (or **▷** on deck A 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 CD function and not playing a CD.
- When high level sound signals are input, the unit automatically adjusts the recording level to prevent distortion of the recorded sound signal (Auto Level Control Function).

Playing a guitar

You can enjoy playing the guitar by connecting an electric guitar to the GUITAR jack on the front panel.

When you select “MIX GUITAR/KARAOKE” by pressing MIX GUITAR/KARAOKE, you can play along with any stereo CD or tape.

You can select your preferred sound characteristics by adjusting the GUITAR LEVEL.

Using the Guitar distortion effect

Press GUITAR DISTORTION.

The indicator on the GUITAR DISTORTION button lights up.

Once GUITAR DISTORTION is activated, it will remain active while the power is on even if the function is changed.

To turn off GUITAR DISTORTION, press GUITAR DISTORTION again, the indicator on this button goes off.

Note

Playing a guitar with this unit may cause distortion or howling. To avoid this, do the followings:

- Move the guitar away from the speakers.
- Turn down the guitar volume.

Enhancing video game sound

— Game Sync

You can enjoy the sound effects of video games.

- 1 **Connect a video game player** (see “Connecting an MD deck/VCR/camcorder/video game” on page 26).
- 2 **Press GAME on the right side corner of the front panel** (see [12](#), “Parts Identification” on page 4).

Falling asleep to music

— Sleep Timer

You can have the system turn off at a preset time, so you can fall asleep to music.

Press SLEEP.

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

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

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

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

Waking up to music

— Daily Timer

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

1 Prepare the music source you want to play.

- CD: Load a CD. To start from a specific track, make a program (see “Programming the CD tracks” on page 12).
- Tape: Load a tape with the side you want to play facing forward.
- Radio: Tune in the preset station you want (see “Presetting radio stations” on page 14).

2 Adjust the volume.

3 Press \odot /CLOCK SET.

“SET” appears and “DAILY” flashes in the display.

4 Press \blacktriangle / \blacktriangledown repeatedly to select “DAILY,” then press ENTER/NEXT.

“ON” appears and the hour digits flash in the display.

5 Set the time to start playback.

Press \blacktriangle / \blacktriangledown repeatedly to set the hour, then press ENTER/NEXT.

The minute indication starts flashing.

Press \blacktriangle / \blacktriangledown repeatedly to set the minute, then press ENTER/NEXT.

The hour indication flashes again.

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

7 Press \blacktriangle / \blacktriangledown repeatedly until the music source you want appears.

The indication changes as follows:



8 Press ENTER/NEXT.

The start time, stop time, and the music source appear, then the original display appears.

9 Turn off the power.

To	Do this
Check the setting	Press TIMER SELECT and then press \blacktriangle / \blacktriangledown to select “DAILY,” then press ENTER/NEXT.
Change the setting	Start from step 1.
Cancel the timer operation	Press TIMER SELECT and then \blacktriangle / \blacktriangledown to select “OFF,” then press ENTER/NEXT.

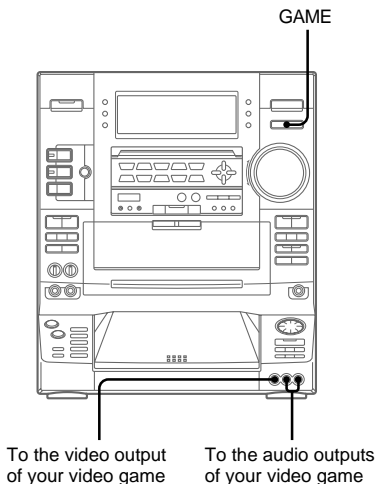
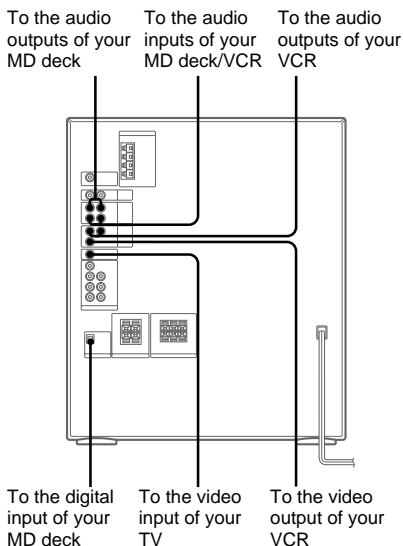
Note

When you use the Sleep Timer, Daily Timer and Timer recording will not turn on the system until the Sleep Timer turns it off.

Tip

The power turns on 15 seconds before the preset time.

Connecting an MD deck/ VCR/camcorder/video game



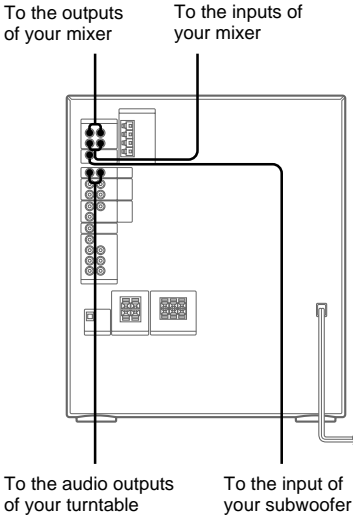
To	Do This
Make a digital recording from CD to MD	Connect the optical cable.
Listen to the connected MD deck	Press FUNCTION repeatedly until "MD" appears.
Listen to the connected VCR	Press FUNCTION repeatedly until "VIDEO" appears.
Listen to the sound from the connected camcorder or video game	Press FUNCTION repeatedly until "GAME" appears or press GAME at the right side corner on the front panel.

Notes

- If sound is distorted when you connect your VCR to the VCR input jack of the unit, connect your VCR to the MD input jack instead.
- Be sure to match the color of the plugs and the connectors.

Connecting a turntable/ mixer/subwoofer

(mixer for European, and Mexican models only)



Tip

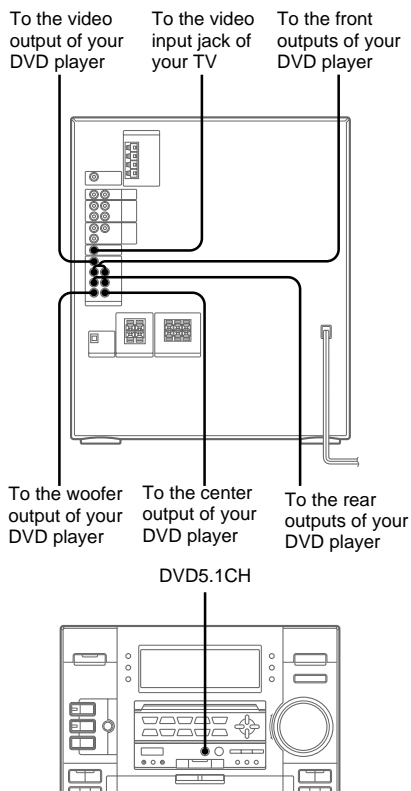
You can also record the sound produced by the mixer onto a tape.

Notes

- 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 between the speakers and the turntable.
 - Stop using the surround effect.
 - Place the speakers and the turntable on a firm and stable surface.
 - Press SUPER WOOFER repeatedly until the indicator on this button goes off.
- Replace the jumpers when the mixer is not in use. Otherwise, no sound will be heard. Be sure to connect the jumpers from the RETURN jack to the SEND jack of the unit. Two jumpers are pre-installed connecting the DJ MIX RETURN and SEND jacks.

To	Do This
Listen to the connected turntable	Press FUNCTION repeatedly until "PHONO" appears.
Listen to the connected mixer	<ol style="list-style-type: none"> Remove the jumper from the unit. Connect the SEND jack of the unit to the IN jack of the mixer with an optional cable. Connect the RETURN jack of the unit to the OUT jack of the mixer with an optional cable. Press FUNCTION repeatedly until "CD" appears.

Connecting a TV/DVD player

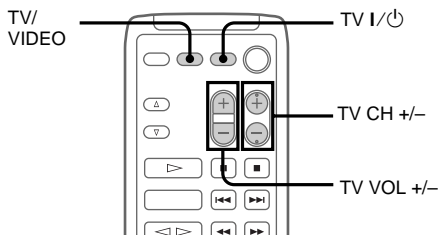


To	Do This
See the picture from the connected components	Connect the video input jack of your TV to the VIDEO OUT jack with the video connecting cable (not supplied).
Listen to the connected DVD player	When your DVD player has 5.1CH analog outputs: Press DVD5.1CH so the indicator of the button lights up. When your DVD player has stereo analog outputs: Press DVD5.1CH repeatedly so the indicator of the button goes off. At this moment, the DVD (for 2channel) function is selected.

When using a TV

Turn on the TV and select the video input to watch the pictures from this system.

You can control Sony TVs using the buttons below.



By pressing	You can
TV I/VIDEO	Turn on or off the TV
TV/VIDEO	Select the input source for the TV
TV VOL +/-	Adjust the volume of the TV
TV CH +/-	Change the channel of the TV

Notes

- Be sure to match the color of the plugs and the connectors.
- Depending on the TV, you may not be able to control your TV or to use some buttons above.
- Each time you press DVD 5.1CH, the function changes as follows:
 DVD 5.1CH ↔ DVD (2 channel)
 (indicator on) (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.

Precautions

On operating voltage

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

On safety

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

On placement

- Do not place the unit in an inclined position.
- Do not place the unit in locations where it is:
 - extremely hot or cold
 - dusty or dirty
 - very humid
 - vibrating
 - subject to direct sunlight

On heat buildup

- Although the unit heats up during the operation, this is not the malfunction.
- Place the unit in a location with adequate ventilation to prevent heat build-up in the unit.

If you continuously use this unit at a large 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 cooling fan.

On operation

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

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

Notes on CDs

- Before playing, clean the CD with a cleaning cloth. Wipe the CD from the center out.
- Do not use solvents.
- Do not expose the CD to direct sunlight or heat sources.
- Discs with non- standard shapes (e.g., heart, square, star) cannot be played on this unit. Do not use such discs.

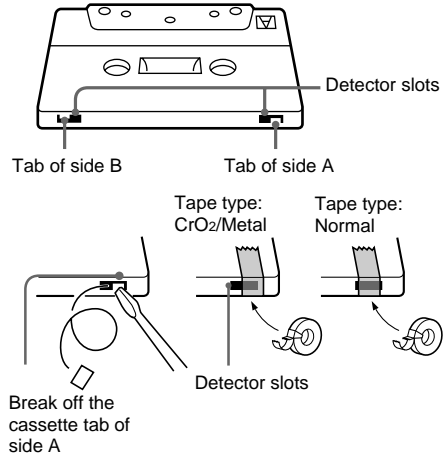
Cleaning the cabinet

Use a soft cloth slightly moistened with mild detergent solution.

To save a tape permanently

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

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



continued

Precautions (continued)

Before placing a cassette in the tape deck

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

When using a tape longer than 90 minutes

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

Cleaning the tape heads

Clean the tape heads after every 10 hours of use.

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

Demagnetizing the tape heads

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

Troubleshooting

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

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

Should any problem persist, consult your nearest Sony dealer.

General

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

- Refer to demonstration (see page 7, step 4).

The clock setting is canceled.

- The power cord is disconnected or a power failure occurs. Redo "Setting the time" (on page 10). If you have set the timer, redo "Waking up to music" (on page 25) and "Timer-recording radio programs" (on page 19).

The radio presetting/timer setting is canceled.

- The power cord is disconnected or a power failure occurs for longer than half a day. Redo "Presetting radio stations" (on page 14).

There is no sound.

- The jumpers for the DJ MIX jacks are not connected (for European and Mexican models only).
- Turn VOLUME clockwise.
- The headphones are connected.
- Insert only the stripped portion of the speaker cord into the SPEAKER jack. Inserting the vinyl portion of the speaker cord will obstruct the speaker connections.
- The protective device on the amplifier has been activated because of a short circuit. ("PROTECT" and "PUSH POWER" flash alternately.) Turn off the unit, eliminate the short-circuit problem and turn on the power again.
- There is no audio output during timer recording.

There is no microphone sound.

- Turn VOLUME or MIC LEVEL to adjust the microphone volume.
 - Make sure the microphone is connected to the MIX MIC jack correctly.
-

There is no guitar sound.

- Turn VOLUME or GUITAR LEVEL to adjust the guitar volume.
- Make sure the guitar is connected to the GUITAR jack correctly.
- Select “MIX GUITAR/KARAOKE” by pressing MIX GUITAR/KARAOKE.

There is severe hum or noise.

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

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

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

The timer does not function.

- Set the clock correctly.

DAILY and REC do not appear when you press the /CLOCK SET button.

- Set the timer correctly.
- Set the clock.

The remote does not function.

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

There is acoustic feedback.



- Decrease the volume level.
- Move the microphone away 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.
-

Speakers

“PROTECT” and “PUSH POWER” appear alternately.

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

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

- Check the speaker connection and speaker placement.
-

CD Player

The CD tray does not close.

- The CD is not placed properly.

The CD will not play.

- The CD is not lying flat in the disc tray.
- The CD is dirty (see “Notes on CDs ” on page 29).
- The CD is inserted label side down.
- The CD is moist.

Play does not start from the first track.

- The player is in program or shuffle mode. Press PLAY MODE repeatedly until “PROGRAM,” “ALL DISCS SHUFFLE,” or “1 DISC SHUFFLE” disappears.
-

Tape Deck

The tape does not record.

- The tab has been removed from the cassette (see “To save a tape permanently” on page 29).
- The tape has reeled to the end.

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

- The heads are dirty (see “Cleaning the tape heads” on page 30).
- The record/playback heads are magnetized (see “Demagnetizing the tape heads” on page 30).

The tape does not erase completely.

- The record/playback heads are magnetized (see “Demagnetizing the tape heads” on page 30).
-

continued

Troubleshooting (continued)

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

- The capstans or pinch rollers are dirty (see “Cleaning the tape heads” on page 30).

Noise increases or the high frequencies are erased.

- The record/playback heads are magnetized (see “Demagnetizing the tape heads” on page 30).

Tuner

Severe hum or noise (“TUNED” or “STEREO” flashes in the display).

- Adjust the antenna.
- The signal strength is too weak. Connect the external antenna.

A stereo FM program cannot be received in stereo.

- Press STEREO/MONO so that “STEREO” disappears.

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

- 1** Press \ominus /CLOCK SET, ENTER/NEXT and I/ \updownarrow at the same time.
- 2** Unplug the power cord.
- 3** Plug the power cord back in.
- 4** Press I/ \updownarrow to turn on the power.

The unit is reset to factory settings. All the settings you made are cleared.

Specifications

Amplifier section

LBT-XG900AV

Front Speaker:

DIN power output (Rated) 90 + 90 watts
(6 ohms at 1 kHz, DIN)
Continuous RMS power output (Reference) 120 + 120 watts
(6 ohms at 1 kHz, 10% THD)
Music power output (Reference) 200 + 200 watts
(6 ohms at 1 kHz, 10% THD)

Center Speaker:

DIN power output (Rated) 30 watts
(8 ohms at 1 kHz, DIN)
Continuous RMS power output (Reference) 40 watts
(8 ohms at 1 kHz, 10% THD)
Music power output (Reference) 60 watts
(8 ohms at 1 kHz, 10% THD)

Rear Speaker:

DIN power output (Rated) 30 + 30 watts
(8 ohms at 1 kHz, DIN)
Continuous RMS power output (Reference) 40 + 40 watts
(8 ohms at 1 kHz, 10% THD)
Music power output (Reference) 60 + 60 watts
(8 ohms at 1 kHz, 10% THD)

LBT-XG100AV

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)

Rear 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

DJ MIX IN*:
(phono jacks)

sensitivity 250 mV,
impedance 47 kilohms

GUITAR IN:
(phone jack)

sensitivity 75 mV,
impedance 470 kilohms

PHONO IN:
(phono jacks)

sensitivity 3 mV,
impedance 47 kilohms

MIX MIC:
(phone jack)

sensitivity 1 mV,
impedance 10 kilohms

VIDEO IN:
(phono jack)

sensitivity 250 mV,
impedance 47 kilohms

GAME IN:
(phono jack)

sensitivity 250 mV,
impedance 47 kilohms

MD IN:
(phono jack)

sensitivity 450 mV,
impedance 47 kilohms

DVD INPUT

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

sensitivity 450 mV,
impedance 47 kilohms

Outputs

DJ MIX OUT*:
(phono jacks)

sensitivity 250 mV,
impedance 1 kilohms

PHONES:

(stereo phone jack)

accepts headphones of 8
ohms or more

VIDEO OUT:

(phono jack)

voltage 250 mV
impedance 1 kilohm

MD OUT:

(phono jacks)

voltage 250 mV
impedance 1 kilohm

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

REAR SPEAKER:

accepts impedance of 8 to
16 ohms

* European, and Mexican models only

Video section

Inputs

VIDEO IN (phono jack): 1 V p-p, 75 ohms

GAME IN (phono jack): 1 V p-p, 75 ohms

Output

VIDEO OUT (phono jack): 1 V p-p, 75 ohms

CD player section

System

Compact disc and digital
audio system

Laser

Semiconductor laser
($\lambda=780\text{nm}$), Emission
duration: continuous

Wavelength

780 – 790 nm

Frequency response

2 Hz – 20 kHz (± 0.5 dB)

Signal-to-noise ratio

More than 90 dB

Dynamic range

More than 90 dB

CD OPTICAL DIGITAL OUT

(Square optical connector jack, rear panel)

Wavelength:

660 nm

Output level

-18 dBm

Tape player section

Recording system

4-track 2-channel stereo
40 – 13,000 Hz (± 3 dB),
using Sony TYPE I cassette

Frequency response
(DOLBY NR OFF)

40 – 14,000 Hz (± 3 dB),
using Sony TYPE II cassette

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 ohm unbalanced

Intermediate frequency

10.7 MHz

AM tuner section

Tuning range

European, Middle Eastern, and Philippine models:

531 – 1,602 kHz
(with the interval set at 9
kHz)

Other models:

531 – 1,602 kHz
(with the interval set at 9
kHz)

530 – 1,710 kHz
(with the interval set at 10
kHz)

Antenna

AM loop antenna

Antenna terminals

External antenna terminal

Intermediate frequency

450 kHz

Specifications (continued)

Speakers

Front speaker:

**SS-XG100AV/XG900AV for LBT-XG100AV/
XG900AV**

Speaker system 3 way BUILT IN SW,
magnetically shielded type

Speaker units

Super Woofer: 22 cm dia., cone type

Woofer: 20 cm dia., cone type

Low Tweeter: 2.5 cm dia., horn type

Rated impedance: 6 ohms

Dimensions (w/h/d) Approx. 290 × 615 × 435
mm

Mass Approx. 16 kg net per
speaker

Center speaker:

SS-CT210 for LBT-XG100AV/XG900AV

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

Rear speaker:

SS-RS210 for LBT-XG100AV/XG900AV

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

European models: 230 V AC, 50/60 Hz

Mexican model: 120 V AC, 50/60 Hz

Australian model: 230 – 240 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

LBT-XG900AV

200 watts

0.6 watts (at the power
saving mode)

LBT-XG100AV

230 watts

Dimensions (w/h/d)

Approx. 355 × 425 × 450
mm

Mass :

LBT-XG900AV

Approx. 14.5 kg

LBT-XG100AV

Approx. 16.0 kg

Supplied accessories:

AM loop antenna (1)

FM lead antenna (1)

Speaker cords (5)

Speaker pads (12)

Remote commander (1)

Batteries (2)

Design and specifications are subject to change
without notice.

