

**SONY**<sup>®</sup>

4-188-893-12(1)

# Mini HI-FI Component System

Operating Instructions  
MHC-EC59



## WARNING

To reduce the risk of fire, do not cover the ventilation opening of the apparatus with newspapers, tablecloths, curtains, etc. Do not place the naked flame sources such as lighted candles on the apparatus.

To reduce the risk of fire or electric shock, do not expose this apparatus to dripping or splashing, and 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.

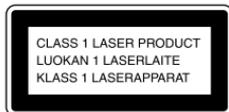
As the main plug is used to disconnect the unit from the mains, connect the unit to an easily accessible AC outlet. Should you notice an abnormality in the unit, disconnect the main plug from the AC outlet immediately.

Do not expose batteries or apparatus with battery-installed to excessive heat such as sunshine, fire or the like.

The unit is not disconnected from the mains as long as it is connected to the AC outlet, even if the unit itself has been turned off.

## CAUTION

The use of optical instruments with this product will increase eye hazard.



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

## Note on DualDiscs

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

## Music discs encoded with copyright protection technologies

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

## Note on copyright-protected content

The transferred music is limited to private use only. Use of the music beyond this limit requires permission of the copyright holders.

## License and Trademark Notice

- MPEG Layer-3 audio coding technology and patents licensed from Fraunhofer IIS and Thomson.
- Windows Media is either a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries.
- This product is protected by certain intellectual property rights of Microsoft Corporation. Use or distribution of such technology outside of this product is prohibited without a license from Microsoft or an authorized Microsoft subsidiary.

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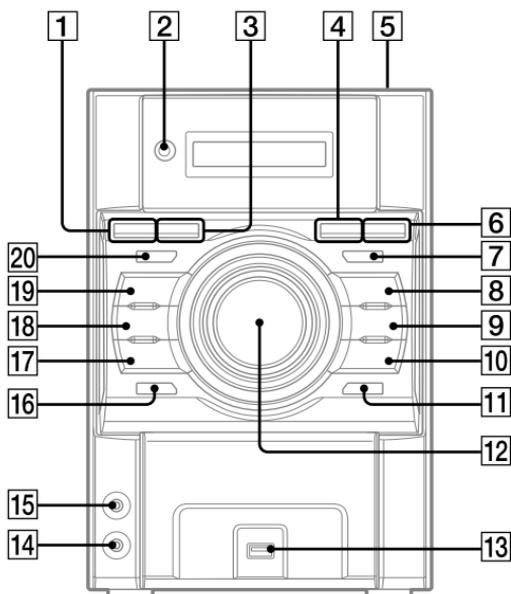
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# Guide to parts and controls

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

## Main Unit



**1****I/⏻ (on/standby) button**

Press to turn on or off the system.

**2****Remote sensor****3****FUNCTION button**

Press to select the function.

**4****CD button**

Press to select the CD function.

**5****▲ PUSH OPEN/CLOSE button**

Press to insert and eject a disc.

**6****USB button**

Press to select the USB function.

**7****ENTER button**

Press to enter the settings.

**8****📁 + (select folder) button**

(page 12, 19, 20)

Press to select a folder.

**9****■ (stop) button**

Press to stop playback or transferring.

**10****TUNING + button**

Press to tune in the desired station.

**▶▶| (go forward) button**

Press to select a track or file.

**▶▶ (fast forward) button**

Press to find a point in a track or file.

**11****OPTIONS button (page 15, 17)**

Press to enter the option menus.

**12****VOLUME control**

Turn to adjust the volume.

Continued 

13

 (USB) port

Connect an optional USB device.

14

PHONES jack

Connect the headphones.

15

PC IN jack

Connect an audio component (Portable audio player, etc.).

16

DSGX button (page 22)

Press to select the sound effect.

17

TUNING — button

Press to tune in the desired station.

 (go back) button

Press to select a track or file.

 (rewind) button

Press to find a point in a track or file.

18

 (play/pause) button

Press to start or pause playback.

19

 — (select folder) button  
(page 12, 19, 20)

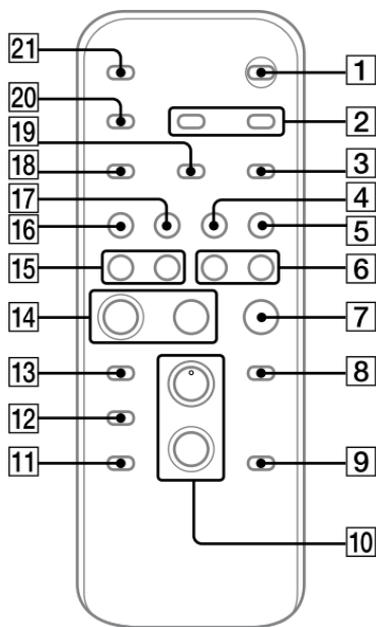
Press to select a folder.

20

REC TO USB button (page 17)

Press to transfer music from a disc to the connected optional USB device.

## Remote



- 1** I/⏻ (on/standby) button  
Press to turn on or off the system.
- 2** CLOCK/TIMER SELECT button  
(page 24)  
CLOCK/TIMER SET button  
(page 11, 23)  
Press to set the clock and the Play Timer.

- 3** REPEAT/FM MODE button  
(page 12, 13, 19)  
Press to listen to a disc, a USB device, a single track or file repeatedly.  
Press to select the FM reception mode (monaural or stereo).

- 4** TUNER/BAND button  
Press to select the TUNER function.  
Press to select FM or AM reception mode.

- 5** FUNCTION button  
Press to select the function.

- 6** ◀◀/▶▶ (rewind/fast forward) button  
Press to find a point in a track or file.

- 7** ■ (stop) button  
Press to stop playback or transferring.

- 8** ENTER button  
Press to enter the settings.

Continued

**9**

 + (select folder) button  
(page 12, 19, 20)  
Press to select a folder.

**10**

VOLUME +/- button  
Press to adjust the volume.

**11**

 - (select folder) button  
(page 12, 19, 20)  
Press to select a folder.

**12**

EQ button (page 22)  
Press to select the sound effect.

**13**

CLEAR button (page 21)  
Press to delete a pre-programmed track or file.

**14**

 (play) button  
Press to start playback.

 (pause) button  
Press to pause playback.

**15**

 (go back/go forward) button  
Press to select a track or file.

+/- (tuning) button  
Press to tune in the desired station.

**16**

USB button  
Press to select the USB function.

**17**

CD button  
Press to select the CD function.

**18**

TUNER MEMORY button  
(page 14)  
Press to preset the radio station.

**19**

PLAY MODE/TUNING MODE button (page 12, 13, 14, 19, 20)  
Press to select the play mode of a CD, MP3 disc or USB device.  
Press to select the tuning mode.

**20**

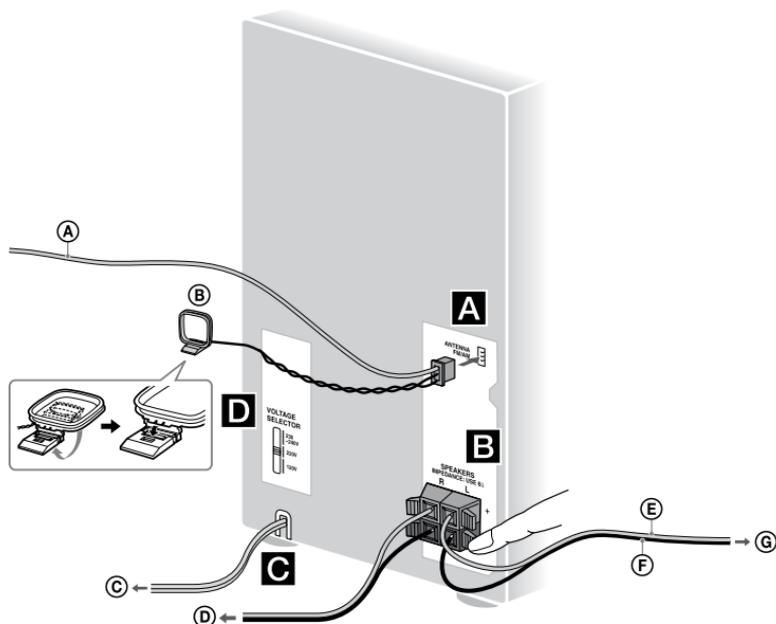
DISPLAY button (page 11, 21, 22)  
Press to change the information on the display.

**21**

SLEEP button (page 23)  
Press to set the Sleep Timer.

# Getting Started

## Hooking up the system securely



- A** FM lead antenna (Extend it horizontally.)
- B** AM loop antenna
- C** To wall outlet
- D** To right speaker

- E** Speaker cord (Red/⊕)
- F** Speaker cord (Black/⊖)
- G** To left speaker

Continued

## **A** Antennas

Find a location and an orientation that provide good reception, and then set up the antennas.

Keep the antennas away from the speaker cords, the power cord and the USB cable to avoid picking up noise.

## **B** Speakers

Insert only the stripped portion of the cord.

## **C** Power

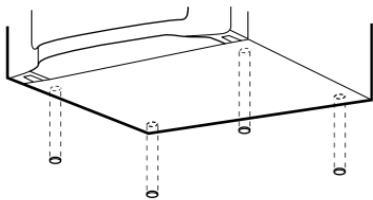
Connect the power cord to a wall outlet. If the plug does not fit the wall outlet, detach the supplied plug adaptor (only for models equipped with an adaptor).

## **D** Voltage selector

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

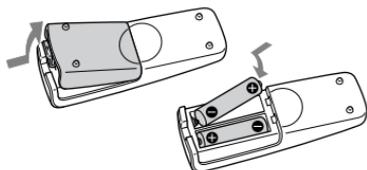
## Attaching the speaker pads

Attach the supplied speaker pads to the bottom of the front speakers to prevent slipping.



## Inserting batteries

Slide and remove the battery compartment lid, and insert the two supplied R6 (size AA) batteries,  side first, matching the polarities shown below.



### Notes

- With normal use, the batteries should last for about six months.
- Do not mix an old battery with a new one or mix different types of batteries.
- If you do not use the remote for a long period of time, remove the batteries to avoid damage from battery leakage and corrosion.
- Batteries installed devices shall not be exposed to excessive heat such as sunshine, fire or the like.

## When carrying this system

Use buttons on the unit.

- 1 Remove a disc to protect the CD mechanism.
- 2 Press  on the unit to turn off the system and confirm that “STANDBY” stops flashing.
- 3 Unplug the power cord.

## Setting the clock

Use buttons on the remote to set the clock.

- 1 Turn on the system.  
Press .
- 2 Select the clock set mode.  
Press CLOCK/TIMER SET.  
If “PLAY SET” flashes, press  repeatedly to select “CLOCK,” and then press ENTER.
- 3 Set the time.  
Press  repeatedly to set the hour, and then press ENTER.
- 4 Use the same procedure to set the minutes.

### Note

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

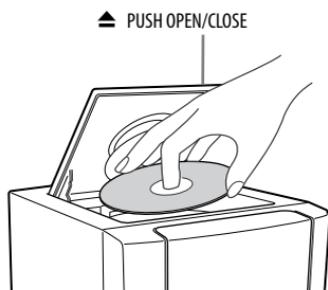
### To display the clock when the system is off

Press DISPLAY repeatedly until the clock is displayed. The clock is displayed for about 8 seconds.

## Operations

### Playing a CD/MP3 disc

- 1 Select the CD function.  
Press CD (or FUNCTION repeatedly).
- 2 Place a disc.  
Press ▲ PUSH OPEN/CLOSE on the unit, and place a disc with the label side up on the CD compartment. To close the CD compartment, press ▲ PUSH OPEN/CLOSE on the unit.



- 3 Start playback.  
Press ► (or ►|| on the unit).

### Other operations

To	Press
Pause playback	(or ►   on the unit). To resume play, press the button again.
Stop playback	■.
Select a folder on an MP3 disc	📁 +/- repeatedly.
Select a track or file	◀◀/▶▶.
Find a point in a track or file	Hold down ◀◀/▶▶ during playback, and release the button at the desired point.
Select Repeat Play	REPEAT repeatedly until "REP" or "REP1" appears.

### To change the play mode

Press PLAY MODE repeatedly while the player is stopped. You can select normal play ("📁") for all MP3 files in the folder on the disc), shuffle play ("SHUF" or "📁 SHUF\*") for folder shuffle), or program play ("PGM").

\* When playing a CD-DA (audio) disc, 📁 (SHUF) Play performs the same operation as normal (SHUF) Play.

### Note on Repeat Play

"REP1" indicates that a single track or file is repeated until you stop it.

### Note on shuffle play mode

When you turn off the system, the selected shuffle play mode ("SHUF" or "📁 SHUF") is cleared and the play mode returns to normal play mode.

### Notes on playing MP3 discs

- Do not save other types of files or unnecessary folders on a disc that has MP3 files.
- Folders that have no MP3 files are skipped.
- MP3 files are played back in the order that they are recorded onto the disc.
- The system can only play MP3 files that have a file extension of “.mp3”.
- Even when file name has the “.mp3” file extension, if the actual file differs, playing this file may generate a loud noise which could damage the speaker system and the system may malfunction.
- The maximum number of:
  - folders is 255 (including the root folder).
  - MP3 files is 512.
  - folder levels (the tree structure of files) is 8.
- Compatibility with all MP3 encoding/writing software, recording device, and recording media cannot be guaranteed. Incompatible MP3 discs may produce noise or interrupted audio or may not play at all.

### Notes on playing multisession discs

- If the first session on the disc is a CD-DA session, the other sessions on the disc cannot be recognized regardless of the session format; only CD-DA tracks in the first session can be played back.
- If the session format for the first session is CD-ROM and the following sessions are recorded in the same format, the system will continue to play back MP3 files accordingly in multiple sessions until the system encounters another session recorded in a different format.

## Listening to the radio

### 1 Select “TUNER FM” or “TUNER AM.”

Press TUNER/BAND (or FUNCTION) repeatedly.

### 2 Perform tuning.

#### For automatic scanning

Press TUNING MODE repeatedly until “AUTO” appears, and then press +/- (or TUNING +/- on the unit). Scanning stops automatically when a station is tuned in, and “TUNED” and “ST” (for stereo programs only) light up in the display.



If “TUNED” does not light up and the scanning does not stop, press ■ to stop scanning, then perform manual tuning (below).

#### For manual tuning

Press TUNING MODE repeatedly until “MANUAL” appears, and then press +/- (or TUNING +/- on the unit) repeatedly to tune in the desired station.

#### Tip

To reduce static noise on a weak FM stereo station, press FM MODE repeatedly until “MONO” appears to turn off stereo reception.

## Presetting a radio station

Use buttons on the remote to preset stations.

- 1 Tune in the desired station.
- 2 Press TUNER MEMORY to select the tuner memory mode.



- 3 Press +/– repeatedly to select the desired preset number.  
If another station is already assigned to the selected preset number, the station is replaced by the new station.
- 4 Press ENTER to store the station.
- 5 Repeat steps 1 through 4 to store other stations.  
You can preset up to 20 FM and 10 AM stations. The preset stations are retained for about half a day even if you disconnect the power cord or if a power failure occurs.

- 6 To call up a preset radio station, press TUNING MODE repeatedly until "PRESET" appears, and then press +/– repeatedly to select the desired preset number.

## Before using the USB device with this system

Check the websites below for the information about compatible USB devices.

For customers in Latin America:  
<<http://www.sony-latin.com/index.crp>>  
For customers in other countries/regions:  
<<http://www.sony-asia.com/support>>

### Notes

- When USB cable connection is necessary, connect the USB cable supplied with the USB device to be connected. See the operation manual supplied with the USB device to be connected for details on the operation method.
- When the USB device is connected, “READING” appears and “USB MEMORY” lights up in the display.
- It may take about 10 seconds before “READING” appears depending on the type of USB device connected.
- Do not connect the system and the USB device through a USB hub.
- When the USB device is inserted, the system reads all the files on the USB device. If there are many folders or files on the USB device, it may take a long time to finish reading the USB device.
- With some connected USB devices, after an operation is performed, there may be a delay before it is performed by this system.
- Compatibility with all encoding/writing software cannot be guaranteed. If audio files on the USB device were originally encoded with incompatible software, those files may produce noise or interrupted audio, or may not play at all.

- This system cannot transfer music from a disc or play audio files on the USB device in the following cases.
  - When the number of audio files in a folder exceeds 999.
  - When the total number of audio files on a USB device exceeds 5,000.
  - When the number of folders on a USB device exceeds 255 (including the “ROOT” and “MUSIC” folders, and excluding empty folders).

These numbers may vary depending on the file and folder structure. Do not save other types of files or unnecessary folders on a USB device that has audio files.

### To select the memory on the USB device

If the USB device has more than one memory (for example, internal memory and a memory card), you can select which memory to use and then start playback or transferring.

- 1 Press **USB** (or **FUNCTION** repeatedly) to select the USB function.
- 2 Connect the USB device to the  (USB) port.
- 3 Press **OPTIONS** on the unit in stop mode. “MEM SEL” appears. If an audio file or a folder is selected, “ERASE” appears instead. Press **◀◀/▶▶** repeatedly to select “MEM SEL.”
- 4 Press **ENTER**.

Continued 

- 5 Press **⏮/⏭** repeatedly to select a memory number.

Proceed to step 6 if only one memory can be selected.

To cancel this operation, press **■**.

- 6 Press ENTER.

### Note on selecting the playback source or transferring destination

You cannot select a memory during playback or transferring. Make sure to select a memory before starting playback or transferring.

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## Transferring music from a disc to a USB device

You can connect an optional USB device to the **Ⓜ** (USB) port on the unit and transfer music from a disc to the USB device.

You can transfer music from a CD-DA disc or MP3 disc only.

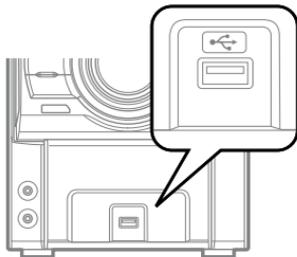
The audio format of files transferred by this system is MP3.

The amount of free space required on the USB device is about 1 MB per minute when transferring music from a CD.

Required free space may be larger when transferring music from an MP3 disc.

You can easily transfer all the music on a disc to a USB device (CD SYNC). You can also transfer a track or MP3 file that is currently being played back (REC1).

- 1 Connect the USB device to the **Ⓜ** (USB) port.



**2** Select the CD function.

Press CD (or FUNCTION repeatedly).

**3** Place a disc.**4** Set the USB device to stand by for transferring.**Synchronized transfer (CD SYNC):**

Press REC TO USB on the unit.

To transfer only your favourite CD tracks or MP3 files, create your own program beforehand (see “Creating your own program” (page 20)).

To transfer only MP3 files that are stored in a specific folder on the MP3 disc, press PLAY MODE repeatedly until “” appears while the player is stopped, and then press  +/- repeatedly to select the desired folder before starting the transfer.

**REC1:**

Start playback of the track or MP3 file you want to transfer, then press REC TO USB on the unit.

“REC” flashes, and the display cycles through “CD SYNC (or “REC1”),” “FREExxxM” or “FREExxxG” (free space, in megabyte or gigabyte, on the USB device) and “PUSH ENTER.” The USB device stands by for transferring and the CD player pauses for play.

**5** Start transferring.

Press ENTER.

Transferring starts.

**When using CD SYNC**

When the transfer is completed, access to the USB device and the CD player stop automatically.

**When using REC1**

When the transfer is completed, access to the USB device stops automatically and the CD player continues playback.

**To stop transferring**

Press .

**To erase audio files or folders from the USB device**

You can erase audio files or folders from the USB device. Note that you cannot erase audio files and folders in shuffle play mode or program play mode.

**1** Connect the USB device to the  (USB) port.

**2** Select the USB function.  
Press USB (or FUNCTION repeatedly).

**3** Press   or  +/- repeatedly to select the audio file or folder you want to erase.

**4** Press OPTIONS on the unit in stop mode.

- 5 Press **◀◀/▶▶** repeatedly to select "ERASE," and then press ENTER. "TRACK ERASE" or "FOLDER ERASE" appears in the display. To cancel the erase operation, press **■**.

- 6 Press ENTER. The selected audio file or folder is erased.

## Folder and file generation rules

When first transferring music to a USB device, a "MUSIC" folder is created below the "ROOT" folder and a transfer mode-oriented folder ("CD-DA," "CD-MP3," "REC1" or "PROGRAM") is created within the "MUSIC" folder. Folders and files are generated within any of the transfer mode-oriented folders as follows.

### CD SYNC<sup>1)</sup>

Music source	Folder name	File name
MP3	Same as the music source <sup>2)</sup>	
CD-DA	"CDDA001" <sup>3)</sup>	"TRACK001" <sup>4)</sup>

### REC1

Music source	Folder name	File name
MP3	"REC1" <sup>5)</sup>	Same as the music source <sup>2)</sup>
CD-DA		"TRACK001" <sup>4)</sup>

- <sup>1)</sup> In Program Play mode, the folder name is "PGM\_xxx," and the file name depends on the music source (CD-DA disc or MP3 disc).
- <sup>2)</sup> Up to 32 characters of the name are assigned.
- <sup>3)</sup> Folder numbers are assigned serially thereafter up to the maximum 999.
- <sup>4)</sup> File numbers are assigned serially thereafter.
- <sup>5)</sup> A new file is created in the "REC1" folder each time REC1 is performed.

## Notes

- When transferring music from a CD, the tracks are transferred as 128 kbps MP3 files. When transferring music from an MP3 disc, MP3 files are transferred with the same bit rate as the original MP3 files.
- If you start transferring in shuffle play mode, repeat play mode or in program play mode (when no tracks or MP3 files are programmed), the selected play mode is automatically cancelled and the play mode switches to normal play mode.
- While transferring music from an MP3 disc, no sound is output and "HI-SPEED" appears.
- CD text information is not transferred in the created MP3 files.
- If you cancel the transfer partway, an MP3 file is created up to the point when the transfer was stopped.
- Transferring stops automatically if:
  - the USB device runs out of space during the transfer process.
  - the number of audio files on the USB device reaches the limit for the number that the system can recognize.
- If the folder to be erased contains non-MP3/WMA/AAC format files or sub folders, these are not erased.
- If a folder or file that you are trying to transfer already exists on the USB device with the same name, a sequential number is added after the name without overwriting the original folder or file.
- Do not remove the USB device during transfer or erase operations. Doing so may corrupt the data on the USB device or damage the USB device itself.

## Playing a file of the USB device

You can listen to music stored in the USB device.

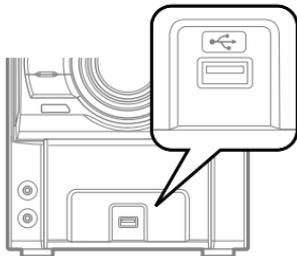
The audio formats that can be played back on this system are as follows:  
MP3\*/WMA\*/AAC\*

\* Files with DRM (Digital Rights Management) copyright protection cannot be played back on this system. Files downloaded from an online music store may not be played on this system.

### 1 Select the USB function.

Press USB (or FUNCTION repeatedly).

### 2 Connect a USB device to the (USB) port.



When the USB device is connected, the display changes as follows:  
“READING” → Volume label\*

\* Only when the volume label exists on the connected USB device.

### 3 Start playback.

Press  (or  on the unit).

## Other operations

To	Press
Pause playback	 (or  on the unit). To resume play, press the button again*.
Stop playback	 .
Select a folder	 +/- repeatedly.
Select a file	  .
Find a point in a file	Hold down  /  during playback, and release the button at the desired point.
Select Repeat Play	REPEAT repeatedly until “REP,”  REP” or “REP1” appears.

\* When playing a VBR MP3 file, the system may resume playback from a different point.

## To change the play mode

Press PLAY MODE repeatedly while the USB device is stopped. You can select normal play (“” for all files in the folder on the USB device), shuffle play (“SHUF” or “ SHUF”), or program play (“PGM”).

Continued 

### Note on Repeat Play

“REP” indicates that all audio files on a USB device are repeated until you stop playback.

### Note on shuffle play mode

When you turn off the system, the selected shuffle play mode (“SHUF” or “ SHUF”) is cleared and the play mode returns to normal play mode (“”).

### Notes

- The following USB device/situations can increase the time it takes to start playback:
  - a USB device recorded with a complicated tree structure.
  - the memory capacity is excessive.
- The system can play back to a depth of 8 folders only.
- This system does not necessarily support all the functions provided in a connected USB device.
- Resume play is canceled when you turn off the system.
- Files and folders are displayed in the order of their creation on the USB device.
- The playback order for the system may differ from the order of the connected USB device.
- Folders that have no audio files are skipped.
- The file formats that this system can play are as follows:
  - MP3: file extension “.mp3”
  - WMA: file extension “.wma”
  - AAC: file extension “.m4a”, “.mp4” or “.3gp”

Note that even when file names have the above file extensions, if the actual files differ, playing these files may generate a loud noise which could damage the speaker system and the system may malfunction.

## Creating your own program

### (Program Play)

Use buttons on the remote to create your own program.

#### 1 Select the desired function.

##### CD

Press CD (or FUNCTION repeatedly) to select the CD function.

##### USB

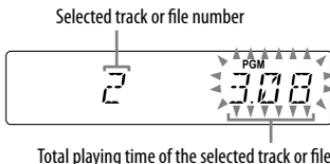
Press USB (or FUNCTION repeatedly) to select the USB function.

#### 2 Select the play mode.

Press PLAY MODE repeatedly until “PGM” appears while the player is stopped.

#### 3 Select the desired track or file number.

Press   repeatedly until the desired track or file number appears. When programming MP3/WMA/AAC files, press  +/- repeatedly to select the desired folder, and then select the desired file.



- 4 Program the selected track or file.  
Press ENTER to enter the selected track or file.  
**CD**  
“— —.— —” appears when the total program time exceeds 100 minutes for a CD or when you select an MP3 file.  
**USB**  
The total program time cannot be displayed, so “— —.— —” appears.
- 5 Repeat steps 3 through 4 to program additional tracks or files, up to a total of 25 tracks or files.
- 6 To play your program of tracks or files, press ►.  
The program remains available until you open the CD compartment. To play the same program again, select the CD function, and then press ►.

### To cancel Program Play

Press PLAY MODE repeatedly until “PGM” disappears while the player is stopped.

### To delete the last track or file of the program

Press CLEAR while the player is stopped.

### To view program information, such as total track number of the program

Press DISPLAY repeatedly.

## Using optional audio components

- 1 Prepare the sound source.  
Connect additional audio component to the PC IN jack on the unit using an audio analog cord (not supplied).
- 2 Turn down the volume.  
Press VOLUME — (or turn the VOLUME control on the unit).
- 3 Select the PC function.  
Press FUNCTION repeatedly.
- 4 Start playback.  
Start playback of the connected component.
- 5 Adjust the volume.  
Press VOLUME +/- (or turn the VOLUME control on the unit).

## Adjusting the sound

To	Press
Generate a more dynamic sound (Dynamic Sound Generator X-tra)	DSGX on the unit.
Set the sound effect	EQ.

## Changing the display

To	Press
Change information on the display*	DISPLAY repeatedly when the system is turned on.
Change Display mode (See below.)	DISPLAY repeatedly when the system is turned off.

\* For example, you can view CD/MP3 disc information or the USB device information, such as:

- track or file number during normal play.
- track or file name (“🎵”) during normal play.
- artist name (“👤”) during normal play.
- album or folder name (“📁”) during normal play.
- total playing time and total number of tracks on the CD-DA disc (only when normal play mode is selected and the player is stopped).
- total number of folders (albums) on the MP3 disc (only when normal play mode is selected and the player is stopped).
- volume label if it exists on the disc or the USB device (only when normal play mode is selected and the USB device is in stop mode).

The system offers the following display modes.

Display mode	When the system is off,
Power Saving Mode <sup>1)</sup>	The display is turned off to conserve power. The timer and clock continue to operate.
Clock <sup>2)</sup>	The clock is displayed.

<sup>1)</sup> You cannot set the clock in Power Saving Mode.

<sup>2)</sup> The clock display automatically turns to Power Saving Mode after 8 seconds.

## Notes on the display information

- Characters that cannot be displayed appear as “\_”.
- The following are not displayed:
  - total playing time for an MP3 disc and USB device
  - remaining playing time for a file
- The following are not displayed correctly:
  - elapsed playing time of an MP3 file encoded using a VBR (variable bit rate)
  - folder and file names that do not follow either the ISO9660 Level 1, Level 2 or Joliet in the expansion format
- The following are displayed:
  - remaining playing time for a track
  - ID3 tag information for MP3 files when ID3 version 1 and version 2 tags are used (ID3 version 2 tag information display has priority when both ID3 version 1 and version 2 tags are used for a single MP3 file)
  - up to 15 characters of ID3 tag, WMA tag and AAC tag information using uppercase letters (A to Z), numbers (0 to 9), and symbols (“\$%’()\*+,-./<=>@[ \ ] \_ ‘ { | } ! ? ^ ` ~ ”)

## Using the timers

The system offers two timer functions. If you use both timers, the Sleep Timer has priority.

Use buttons on the remote to use the timer functions.

### Sleep Timer:

You can fall asleep to music. This function works even if the clock is not set.

### Press SLEEP repeatedly.

If you select “AUTO,” the system automatically turns off after the current disc or USB device stops, or within 100 minutes.

### Play Timer:

You can wake up to CD, FM/AM reception or USB device at a preset time. Make sure you have set the clock.

## 1 Prepare the sound source.

Prepare the sound source, and then press VOLUME +/- to adjust the volume.

To start from a specific CD track or audio file, create your own program (page 20).

## 2 Select the timer set mode.

Press CLOCK/TIMER SET.

- 3** Set the play timer.  
Press **⏮/⏭** repeatedly to select “PLAY SET,” and then press ENTER. “ON TIME” appears, and the hour indication flashes.
- 4** Set the time to start playback.  
Press **⏮/⏭** repeatedly to set the hour, and then press ENTER.  
The minute indication flashes. Use the procedure above to set the minutes. “OFF TIME” appears and the hour indication flashes in the display.
- 5** Use the same procedure as in step 4 to set the time to stop playback.
- 6** Select the sound source.  
Press **⏮/⏭** repeatedly until the desired sound source appears, and then press ENTER. The display shows the timer settings.
- 7** Turn off the system.  
Press **I/⏻**.  
The system turns on 15 seconds before the preset time. If the system is on at the preset time, the Play Timer will not play.  
Do not operate the system from the time the system turns on until the play starts.

### **To check the setting**

Press CLOCK/TIMER SELECT, press **⏮/⏭** repeatedly until “PLAY SEL” appears, and then press ENTER.

### **To cancel the timer**

Repeat the same procedure as above until “OFF” appears, and then press ENTER.

### **To change the setting**

Start over from step 1.

### **Tip**

The Play Timer setting remains as long as the setting is not cancelled manually.

## Additional Information

### Troubleshooting

- 1 Make sure the power cord and speaker cords are correctly and firmly connected.
- 2 Find your problem in the checklist below, and take the indicated corrective action.  
If the issue persists, contact your nearest Sony dealer.

#### **If “PROTECT” appears on the display**

Immediately unplug the power cord, and check the following items after “PROTECT” disappears.

- If your system has a voltage selector, is the voltage selector set to the correct voltage?
- Are the + and – speaker cords short-circuited?
- Is anything blocking the ventilation holes on the back of the system?

After you have checked these above items and found to be all right, reconnect the power cord, and turn on the system. If the issue persists, contact your nearest Sony dealer.

### General

#### **The system does not turn on.**

- Is the power cord plugged in?
- Is the voltage selector set correctly to match the local power line voltage?

#### **There is no sound.**

- Are the + and – speaker cords short-circuited?
- Are you using only the supplied speakers?
- Is anything blocking the ventilation holes on the back of the system?

#### **Sound comes from one channel, or the left and right volumes are unbalanced.**

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

#### **Severe hum or noise.**

- Move the system away from sources of noise.
- Connect the system to a different wall outlet.
- Install a noise filter (available separately) to the power cord.

#### **The remote does not function.**

- Remove any obstacles between the remote and the remote sensor on the unit, and position the unit away from fluorescent lights.
- Point the remote at the system's sensor.
- Move the remote closer to the system.

## CD/MP3 player

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### **The sound skips, or the disc will not play.**

- Wipe the disc clean, and replace it.
- Move the system to a location away from vibration (for example, on top of a stable stand).
- Move the speakers away from the system, or place them on separate stands. At high volume, speaker vibration may cause the sound to skip.

### **Play does not start from the first track.**

- Return to Normal Play by pressing PLAY MODE repeatedly until both “PGM” and “SHUF” disappear.

### **Starting playback takes more time than usual.**

- The following discs can increase the time it takes to start playback.
  - a disc recorded with a complicated tree structure
  - a disc recorded in multisession mode
  - a disc that has not been finalized (a disc to which data can be added)
  - a disc that has many folders

## USB device

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### **You cannot start transferring to a USB device.**

- The following problems may have occurred.
  - The USB device is full.
  - The number of files and folders on the USB device has reached the upper limit.
  - The USB device is write-protected.

### **Transferring is stopped before it is finished.**

- You are using an unsupported USB device. Check the information on the websites about compatible USB devices (page 15).
- The USB device is not formatted correctly. Refer to the USB device operation manual for how to format.
- Turn off the system and remove the USB device. If the USB device has a power switch, turn the USB device off and then on again after removing it from the system. Then perform transferring again.

- If the transfer and erase operations are repeated multiple times, the file structure within the USB device becomes fragmented. Refer to the USB device operation manual for how to deal with this problem. If the problem persists, contact your nearest Sony dealer.

### **Transferring music to a USB device results in an error.**

- You are using an unsupported USB device. Check the information on the websites about compatible USB devices (page 15).
- Turn off the system and remove the USB device. If the USB device has a power switch, turn the USB device off and then on again after removing it from the system. Then perform transferring again.
- The USB device was disconnected or the power was turned off during the transfer process. Delete the partially-transferred file, and perform transferring again. If this does not fix the problem, the USB device may be broken. Refer to the USB device operation manual for how to deal with this problem. If the problem persists, contact your nearest Sony dealer.

### **Files or folders on the USB device cannot be erased.**

- Check if the USB device is write-protected.

- The USB device was disconnected or the power was turned off during the erase operation. Delete the partially-erased file. If this does not fix the problem, the USB device may be broken. Refer to the USB device operation manual for how to deal with this problem. If the problem persists, contact your nearest Sony dealer.

### **Are you using a supported USB device?**

- If you connect an unsupported USB device, the following problems may occur. Check the information on the websites about compatible USB devices (page 15).
  - The USB device is not recognized.
  - File or folder names are not displayed on this system.
  - Playback is not possible.
  - The sound skips.
  - There is noise.
  - A distorted sound is output.

### **“OVER CURRENT” appears.**

- A problem has been detected with the level of electrical current from the  (USB) port. Turn off the system and remove the USB device from the  (USB) port. Make sure there is no problem with the USB device. If this display pattern persists, contact your nearest Sony dealer.

**There is no sound.**

- The USB device is not connected correctly. Turn off the system and reconnect the USB device, then turn on the system and check if “USB MEMORY” appears in the display.

**There is noise, skipping, or distorted sound.**

- Turn off the system and reconnect the USB device, then turn on the system.
- The music data itself contains noise, or the sound is distorted. Noise may have entered during the transfer process. Delete the file, and try transferring again.
- The bit rate used when encoding the files was low. Send files encoded with higher bit rates to the USB device.

**The USB device cannot be connected into the  (USB) port.**

- The USB device is being connected backwards. Connect the USB device in the correct orientation.

**“READING” is displayed for an extended time, or it takes a long time before playback starts.**

- The reading process can take a long time in the following cases.
  - There are many folders or files on the USB device.
  - The file structure is extremely complex.
  - The memory capacity is excessive.
  - The internal memory is fragmented.

Thus, we recommend following these guidelines.

- Total folders on USB device: 100 or less
- Total files per folder: 100 or less

**Erroneous display**

- Send the music data to the USB device again, as the data stored in the USB device may have been corrupted.
- The character codes that can be displayed by this system are numbers and alphabet only. Other characters are not displayed correctly.

**The USB device is not recognized.**

- Turn off the system and reconnect the USB device, then turn on the system.
- Check the information on the websites about compatible USB devices (page 15).
- The USB device does not work properly. Refer to the USB device operation manual for how to deal with this problem.

**Play does not start.**

- Turn off the system and reconnect the USB device, then turn on the system.
- Check the information on the websites about compatible USB devices (page 15).
- Press  (or  on the unit) to start play.

### Play does not start from the first track.

- Return to Normal Play by pressing PLAY MODE repeatedly until both “PGM” and “SHUF” disappear.

### Files cannot be played back.

- The audio file does not have the extension “.mp3”, “.wma”, “.m4a”, “.mp4” or “.3gp”.
  - The audio file is a multiple track audio file.
  - The file is a video file.
  - The data is not stored in MP3/WMA/AAC format.
  - The data is stored in WMA lossless/AAC lossless format.
  - USB storage devices formatted with file systems other than FAT16 or FAT32 are unsupported.\*
  - If you use a partitioned USB storage device, only files on the first partition can be played.
  - Playback is possible up to eight levels.
  - The number of folders has exceeded 255.
  - The number of files has exceeded 5,000.
  - Files that are encrypted or protected by passwords, etc. cannot be played back.
- \* This system supports FAT16 and FAT32, but some USB storage devices may not support all of these FAT. For details, see the operation manual of each USB storage device or contact the manufacturer.

### Tuner

#### Severe hum or noise, or stations cannot be received. (“TUNED” or “ST” flashes on the display.)

- Connect the antenna properly.
- Find a location and an orientation that provide good reception, and then set up the antenna again.
- Keep the antennas away from the speaker cords, the power cord and the USB cable to avoid picking up noise.
- Consult your nearest Sony dealer if the supplied AM antenna has come off the plastic stand.
- Turn off nearby electrical equipment.

#### To change the AM tuning interval

The AM tuning interval is factory-preset to 9 kHz or 10 kHz.

Use buttons on the unit to change the AM tuning interval.

- 1 Tune in any AM station, and then turn off the system.
- 2 Press DISPLAY to display the clock.
- 3 While holding down TUNING +, press I/⏪.

All the AM preset stations are erased. To reset the interval to the factory preset, repeat the procedure.

### To improve tuner reception

Turn off the CD player/USB device power by using the system's power management function. By default, the CD player/USB device power is turned on.

Use buttons on the unit to turn off the CD player/USB device power.

- 1 Press **CD** to select the CD function.
- 2 Press **I/⏻** to turn off the system.
- 3 After "STANDBY" stops flashing, press **DISPLAY** to display the clock and then press **I/⏻** while holding down **■**.

"CD/USB PWR OFF" appears. With the CD player/USB device power turned off, access time is increased. In addition, when the TUNER function is selected, power is not supplied to the USB device, so it is not recognized even if connected.

To turn on the CD player/USB device power, repeat the procedure until "CD/USB PWR ON" appears.

### To reset the system to factory settings

If the system still does not operate properly, reset the system to factory settings. You cannot reset the system to factory settings in Power Saving Mode. Use buttons on the unit to reset the unit to its factory default settings.

- 1 Disconnect and reconnect the power cord, and then turn on the system.
- 2 Press **■**, **FUNCTION**, and **I/⏻** at the same time.

All user-configured settings, such as preset radio stations, timer, and the clock, are deleted.

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## Messages

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

### COMPLETE

- The radio preset operation ended normally.
- The audio file or folder on the USB device has been erased.

### DATA ERROR

You tried to play an unplayable file on the USB device.

### DEVICE ERROR

The USB device could not be recognized or an unknown device is connected (page 27, 28).

### DEVICE FULL

The USB device is full.

### ERASE ERROR

Erase of audio files or folders on the USB device failed (page 27).

### FATAL ERROR

The USB device has been disconnected while transferring, or erasing audio files or folders on the USB device.

### FOLDER FULL

The number of folders on the USB device has reached the maximum.

### FULL

You tried to program more than 25 tracks or files (steps).

### NO DISC

There is no disc in the player, or you have loaded a disc that cannot be played.

### NO MEMORY

The memory selected for playback or transfer has no memory media inserted in the USB device.

### NO STEP

All of the programmed tracks have been erased.

### NO SUPPORT

An unsupported USB device is connected.

### NO TRACK

Playable file on the USB device is not loaded in the system.

### NOT USED

You tried to perform a specific operation under conditions where that operation is prohibited.

**NoDEVICE**

No USB device is connected or the connected USB device has been stopped.

**OVER**

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

**OVER CURRENT**

An over current from the  (USB) port was detected.

**PROTECT**

See “If “PROTECT” appears on the display” (page 25) to check what to do if this message appears.

**PROTECTED**

You tried to perform transferring or erase operation against a write-protected USB device.

**PUSH SELECT**

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

**PUSH STOP**

- You have pressed PLAY MODE during playback.
- You have pressed the buttons whose operation is only possible when playback is stopped.

**READING**

- The system is reading information of the disc. Some buttons are not available.
- The system is recognizing the USB device.

**REC ERROR**

Transferring did not start, stopped partway, or otherwise could not be performed (page 26).

**REMOVED**

The USB device has been removed.

**SET CLOCK**

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

**SET TIMER**

You tried to select the timer when the Play Timer is not set.

**TIME NG**

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

**TRACK FULL**

The number of files on the USB device has reached the maximum.

## Precautions

### Discs that this system CAN play

- Audio CD
- CD-R/CD-RW (audio data/MP3 files)

### Discs that this system CANNOT play

- CD-ROM
- CD-R/CD-RW other than those recorded in music CD format or MP3 format conforming to ISO9660 Level 1/Level 2, Joliet
- CD-R/CD-RW recorded in multisession that have not ended by “closing the session”
- CD-R/CD-RW of poor recording quality, CD-R/CD-RW that have scratches or are dirty, or CD-R/CD-RW recorded with an incompatible recording device
- CD-R/CD-RW which is finalized incorrectly
- Discs containing files other than MPEG 1 Audio Layer-3 (MP3) files
- Discs of non-standard shape (for example, heart, square, star)
- Discs that have adhesive tape, paper, or sticker attached to them
- Rental or used discs with attached seals where the glue extends beyond the seal
- Discs that have labels printed using ink that feels tacky when touched

### Notes on discs

- Before playing, wipe the disc with a cleaning cloth from the centre out to the edge.
- Do not clean discs with solvents, such as benzine, thinner, or commercially available cleaners or anti-static spray intended for vinyl LPs.
- Do not expose discs to direct sunlight or heat sources such as hot air ducts, nor leave it in a car parked in direct sunlight.

### On safety

- Completely disconnect the power cord (mains lead) from the wall outlet (mains) if it is not going to be used for an extended period of time. When unplugging the unit, always grip the plug. Never pull the cord itself.
- Should any solid object or liquid get into the system, unplug the system, and have it checked by qualified personnel before operating it again.
- AC power cord must be changed only at the qualified service shop.

### On placement

- Do not place the system in an inclined position or in locations that are extremely hot, cold, dusty, dirty, or humid or lacking adequate ventilation, or subject to vibration, direct sunlight or a bright light.
- Be careful when placing the unit or speakers on surfaces that have been specially treated (for example, with wax, oil, polish) as staining or discoloration of the surface may result.

- 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, and cause the system to malfunction. In this situation, remove the disc, and leave the system turned on for about an hour until the moisture evaporates.

### On heat buildup

- Heat buildup on the unit during operation is normal and is not cause for alarm.
- Do not touch the cabinet if it has been used continuously at a high volume because the cabinet may have become hot.
- Do not obstruct the ventilation holes.

### On the speaker system

This speaker system is not magnetically shielded, and the picture on nearby TV sets may become magnetically distorted. In this situation, turn off the TV, wait 15 to 30 minutes, and turn it back on. If there is no improvement, move the speakers far away from the TV.

### Cleaning the cabinet

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

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## Specifications

### Main unit

#### Amplifier section

The following measured at AC 127 V, 60 Hz (Mexican model)

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

The following measured at AC 120 V, 220 V, 240 V, 50/60 Hz (Other models)

Power output (rated):

25 W + 25 W (at 6  $\Omega$ , 1 kHz, 1% THD)

RMS output power (reference):

60 W + 60 W (per channel at 6  $\Omega$ , 1 kHz)

### Inputs

PC IN (stereo mini jack):

Sensitivity 800 mV, impedance 22 kilohms

### Outputs

PHONES (stereo mini jack):

accepts headphones with an impedance of 8  $\Omega$  or more

SPEAKERS: impedance: 6  $\Omega$

### USB section

Supported bit rate:

MP3 (MPEG 1 Audio Layer-3):  
32 kbps — 320 kbps, VBR  
WMA: 48 kbps — 192 kbps  
AAC: 48 kbps — 320 kbps

Sampling frequencies:

MP3 (MPEG 1 Audio Layer-3):  
32/44.1/48 kHz  
WMA: 44.1 kHz  
AAC: 44.1 kHz

↔ (USB) port:

Maximum current:  
500 mA

## CD player section

### System:

Compact disc and digital audio system

### Laser Diode Properties

Emission Duration: Continuous

Laser Output\*: Less than 44.6 $\mu$ W

\* This output is the value measurement at a distance of 200mm from the objective lens surface on the Optical Pick-up Block with 7mm aperture.

Frequency response: 20 Hz — 20 kHz

Signal-to-noise ratio: More than 90 dB

Dynamic range: More than 88 dB

## Tuner section

FM stereo, FM/AM superheterodyne tuner

### Antenna:

FM lead antenna

AM loop antenna

### FM tuner section:

#### Tuning range:

87.5 MHz — 108.0 MHz (50 kHz step)

Intermediate frequency: 225 kHz

### AM tuner section:

#### Tuning range

Latin American models:

530 kHz — 1,710 kHz (10 kHz step)

531 kHz — 1,710 kHz (9 kHz step)

Other models:

531 kHz — 1,602 kHz (9 kHz step)

530 kHz — 1,610 kHz (10 kHz step)

Intermediate frequency: 53 kHz

## Front Speaker (SS-EC59)

### Speaker system:

2-way 2-driver speaker system, Bass reflex

### Speaker unit:

Woofer: 130 mm, cone type

Tweeter: 40 mm, horn type

Rated impedance: 6  $\Omega$

Dimensions (W/H/D):

Approx. 190 mm  $\times$  306 mm  $\times$  185 mm

Mass: Approx. 2.0 kg

## General

### Power requirements

Mexican model:

AC 127 V, 60 Hz

Argentine model:

AC 220 V, 50/60 Hz

Other models:

AC 120 V, 220 V or 230 V — 240 V, 50/60 Hz, adjustable with voltage selector

Power consumption: 85 W

(0.5 W at the Power Saving Mode)

Dimensions (W/H/D) (excl. speakers)

Approx. 200 mm  $\times$  306 mm  $\times$  305 mm

Mass (excl. speakers): Approx. 3.8 kg

Supplied accessories: Remote Commander (1), R6 (Size AA) batteries (2), FM lead/AM loop antenna (1), Speaker pads (8)

Design and specifications are subject to change without notice.

- Standby power consumption: 0.5 W
- Halogenated flame retardants are not used in the certain printed wiring boards.

