

Mini Hi-Fi Component System

Operating Instructions



***MHC-GT55
MHC-GT44
MHC-GT22***

WARNING

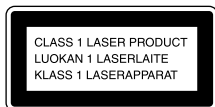
To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

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

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

Install this system so that the power cord can be unplugged from the wall socket immediately in the event of trouble.

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



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



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

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.

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

- “WALKMAN” and “WALKMAN” logo are registered trademarks of Sony Corporation.
- MICROVAULT is a trademark of Sony Corporation.
- MPEG Layer-3 audio coding technology and patents licensed from Fraunhofer IIS and Thomson.

Table of Contents

Guide to parts and controls 4

Getting Started

Hooking up the system
securely..... 9
Setting the clock 12

Basic Operations

Playing a CD/MP3 disc 13
Listening to the radio 15
Recording from a disc onto an USB
device 16
Listening to music of an USB
device 19
Playing a tape 21
Using optional audio
components 22
Adjusting the sound 23
Changing the display 23

Other Operations

Creating your own program
(Program Play) 25
Presetting radio stations 26
Recording onto a tape
(CD Synchro recording/Manual
recording/Sound Mixing) 27
Creating your own sound
effect 29
Enjoying karaoke 30
Using the Timers 31

Others

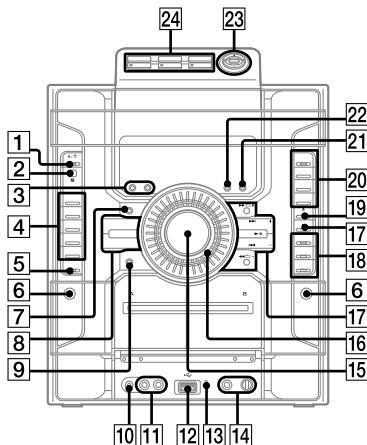
Troubleshooting 33
Messages 38
Precautions 39
Specifications 41
Playable/Recordable USB
devices 43

Guide to parts and controls

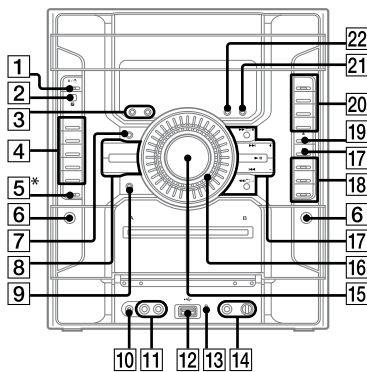
This manual mainly explains operations using the remote, but the same operations can also be performed using the buttons on the unit having the same or similar names.

Unit

MHC-GT55

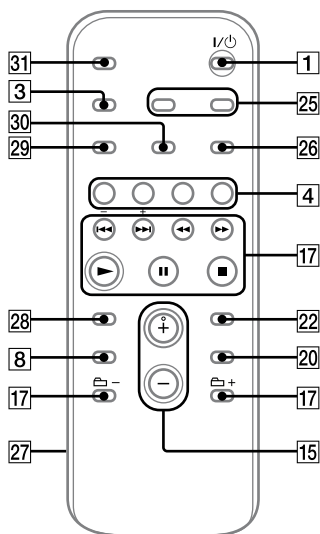


MHC-GT44/GT22



* MHC-GT44 only

Remote



1

I/⏻ (on/standby) (page 10, 12, 18, 20, 32, 37)

Press to turn on the system.

Unit: STANDBY indicator (page 23, 33)

Lights up when the system is off.

2

Remote sensor (page 33)

3

DISPLAY (page 12, 23, 33)

Press to change the information on the display.

Unit: ILLUMINATION (page 23)

Press to change the illumination pattern around MASTER VOLUME **15**.

4

CD (page 10, 13, 25, 28, 37)

Press to select the CD function.

TUNER/BAND (page 15)

Press to select the TUNER function.
Press to select FM or AM reception mode.

Unit: TAPE A/B (page 21)

Press to select the TAPE function. Press to select TAPE A or TAPE B.

Unit: AUDIO (page 22)

Press to select the AUDIO function.

USB (page 18, 19, 25)

Press to select the USB function.

Remote: FUNCTION

Press to select the function.

5

(MHC-GT55/GT44 only)

SUBWOOFER (page 23)

Press to turn on and off the subwoofer.

SUBWOOFER indicator (page 23)

Lights up when the subwoofer is on.

Continued

6

▲ PUSH (page 21)

Press to insert or eject a tape.

7

ERASE (page 18)

Press to erase MP3 files and folders from the connected optional USB device (Digital music player or USB storage media).

8

**Unit: PRESET EQ (page 29),
GROOVE (page 23, 29, 37),
SURROUND (page 23, 29)**

Remote: EQ (page 23)

Press to select the sound effect.

9

**PLAY MODE/TUNING MODE
(MHC-GT55 only) (page 14, 15,
17, 20, 28)**

Press to select the play mode of a CD, MP3 disc or an optional USB device (Digital music player or USB storage media).

Press to select the tuning mode.

**EQ BAND (MHC-GT44/GT22 only)
(page 29)**

Press to select the frequency band.

10

PHONES jack

Connect the headphones.

11

AUDIO INPUT L/R jacks (page 22)

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

12

•⇐ (USB) port (page 16, 17, 18, 19)

Connect an optional USB device (Digital music player or USB storage media).

13

**REC/ERASE indicator (page 18,
20)**

Lights up when recording to the connected optional USB device (Digital music player or USB storage media), or when erasing MP3 files or folders.

14

MIC jack (page 30)

Connect an optional microphone.

MIC LEVEL (page 30)

Turn to adjust the microphone volume.

15

**Unit: MASTER VOLUME (page 13,
15, 19, 21, 22)**



Turn to adjust the volume.

**Remote: VOLUME +/- (page 13,
15, 19, 21, 22, 31)**


Press to adjust the volume.

16**OPERATION DIAL** (page 13, 20, 29)


Turn to select a track, file or folder.

17**Unit:**  (play/pause) (page 10, 13, 19, 21, 37)**Remote:**  (play) (page 13, 19, 21, 26)**** (pause) (page 13, 20, 22)

Press to start or pause playback.

 (stop) (page 13, 15, 17, 20, 22, 28, 37)

Press to stop playback.

 (go back/go forward) (page 13, 18, 20, 25)


Press to select a track or file.

Unit: TUNING +/- (page 15, 37)**Remote:** +/- (tuning) (page 15)

Press to tune in the desired station.

 +/- (select folder) (page 13, 18, 20, 25)

Press to select a folder.

 (rewind/fast forward) (page 13, 20, 22)


Press to find a point in a track or file.

18**CD-USB SYNC/REC1** (page 17)

Press to record from a disc onto the connected optional USB device (Digital music player or USB storage media).

CD-TAPE SYNC (page 28)**TAPE REC PAUSE/START** (page 28)

Press to record onto a tape.

19** OPEN/CLOSE** (page 13)

Press to insert and eject a disc.

20**Unit:** DISC 1 – 3 (page 13, 14)

Press to select a disc. Press to switch to the CD function from other function.

Unit: DISC SKIP/EX-CHANGE (page 13, 14, 28)

Press to select a disc. Press to exchange a disc while playing.

Remote: DISC SKIP (page 13, 25, 28)

Press to select a disc.

21**RETURN** (page 13, 20)

Press to return to the parent folder.

Press to exit search mode.

22**ENTER** (page 12, 13, 17, 18, 20, 25, 26, 28, 31)

Press to enter the settings.

Continued 

23 (MHC-GT55 only)
ENTER (page 12, 13, 17, 18, 20, 28)
Press to enter the settings.

+/- (equalizer level) (page 29)
Press to adjust the equalizer level.

24 (MHC-GT55 only)
BASS (page 29)
Press to select low frequency. The indicator lights up when the button is pressed.

VOCAL (page 29)
Press to select mid frequency. The indicator lights up when the button is pressed.

GUITAR (page 29)
Press to select high frequency. The indicator lights up when the button is pressed.

FOCUS (page 29)
Press to emphasize equalizer level of the selected band.

25
CLOCK/TIMER SELECT (page 32)
CLOCK/TIMER SET (page 12, 31)
Press to set the clock and the timers.

26
REPEAT/FM MODE (page 13, 15, 20)
Press to listen to a disc, an USB device, a single track or file repeatedly.
Press to select the FM reception mode (monaural or stereo).

27
Battery compartment lid (page 11)

28
CLEAR (page 26)
Press to delete a pre-programmed track or file.

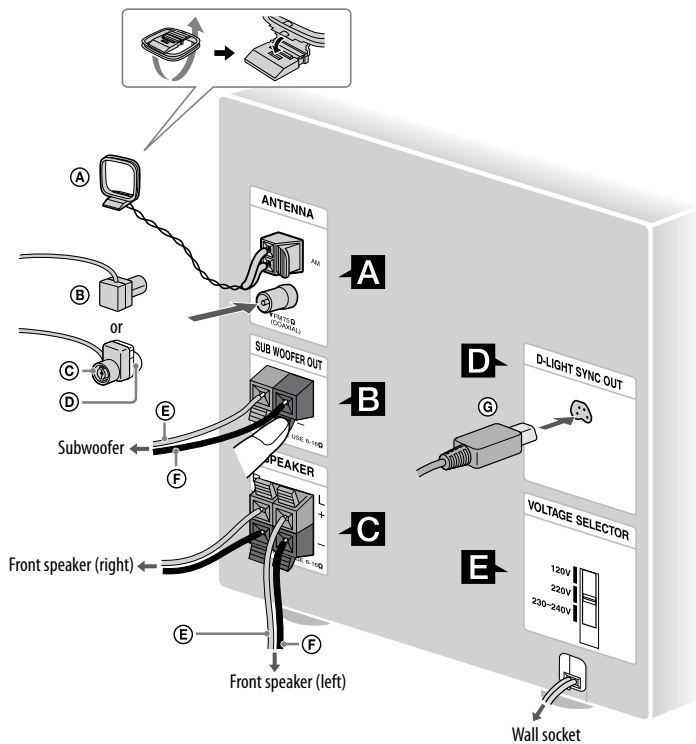
29
TUNER MEMORY (page 26)
Press to preset the radio station.

30
PLAY MODE/TUNING MODE (page 14, 15, 17, 20, 25, 27, 28)
Press to select the play mode of a CD, MP3 disc or an optional USB device (Digital music player or USB storage media).
Press to select the tuning mode.

31
SLEEP (page 31)
Press to set the Sleep Timer.

Getting Started

Hooking up the system securely



- (A) AM loop antenna
- (B) FM lead antenna (Extend it horizontally.)
- (C) Brown side for other regions
- (D) White side for North American model
- (E) Red (Solid/⊕)
- (F) Black (Striped/⊖)
- (G) D-LIGHT SYNC controller cord (not supplied)

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 Subwoofer (MHC-GT55/GT44 only)

Insert only the stripped portion of the cords into the SUB WOOFER OUT jacks.

C Speakers

Insert only the stripped portion of the cords into the SPEAKER jacks.

D D-LIGHT SYNC OUT jack (Except for Oceanian model)

Use the D-LIGHT SYNC controller to connect to this jack. You need to connect the D-LIGHT SYNC controller to the lighting device* (not supplied). The lighting device will react according to control signals transmitted by the D-LIGHT SYNC controller upon receiving music source from the system. For details on the use of D-LIGHT SYNC controller and lighting device, refer to the respective operating instructions supplied with the respective device.

* Refer to the D-LIGHT SYNC controller operating instruction for the recommended lighting device.

Note

The lighting effect may be different depending on the connected lighting device or the type of music being played back.

E Power

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

Connect the power cord to a wall socket. The demonstration appears in the display. If the plug does not fit the wall socket, detach the supplied plug adaptor (only for models equipped with an adaptor).

When carrying this system

- 1 Remove all discs to protect the CD mechanism.
- 2 Press CD **4** to select the CD function.
- 3 Hold down **▶||** **17** on the unit, and press **I/⏻** **1** on the unit until "STANDBY" appears.
- 4 After "LOCK" appears, unplug the power cord.

Speaker pads

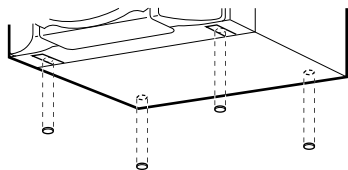
Attach the supplied speaker pads to the bottom of the front speakers and subwoofer to prevent slipping.

Front speakers:

4 pads for each speaker

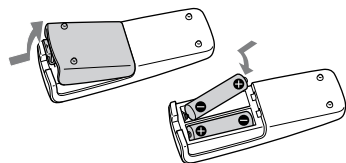
Subwoofer:

4 pads (MHC-GT55/GT44 only)



To use the remote

Slide and remove the battery compartment lid [27](#), 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.

Setting the clock

Use buttons on the remote to set the clock.

- 1** Press I/⏻ [1] to turn on the system.
- 2** Press CLOCK/TIMER SET [25].
If the current mode appears on the display, press ◀▶ [17] repeatedly to select “CLOCK SET” and then press ENTER [22].
- 3** Press ◀▶ [17] repeatedly to set the hour, and then press ENTER [22].
- 4** Use the same procedure to set the minutes.
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 [3] repeatedly until the clock is displayed. The clock is displayed for about 8 seconds.

Basic Operations

Playing a CD/MP3 disc

- 1 Select the CD function.
Press CD [4].
- 2 Place a disc.
Press ▲ OPEN/CLOSE [19] on the unit, and place a disc with the label side up on the disc tray.



To insert additional discs, press DISC SKIP [20] to rotate the disc tray.
To close the disc tray, press ▲ OPEN/CLOSE [19] on the unit again.
Do not force the disc tray closed with your finger, as this may damage the unit.

- 3 Start playback.
Press ► (or ►|| on the unit) [17].
- 4 Adjust the volume.
Press VOLUME +/- (or turn MASTER VOLUME on the unit) [15].

Other operations

To	Press
Pause playback	(or ► on the unit) [17]. To resume play, press the button again.
Stop playback	■ [17].
Select a folder on an MP3 disc	📁 +/- [17].
Select a track or file	◀◀/▶▶ [17].
Find a point in a track or file	Hold down ◀◀/▶▶ [17] during playback, and release the button at the desired point.
Select Repeat Play	REPEAT [26] repeatedly until "REP" or "REP1" appears.
Select a disc	DISC SKIP (or DISC 1 - 3 on the unit) [20] in stop mode.
Select a folder and file on an MP3 disc while viewing the folder and file names on the display*	Turn OPERATION DIAL [16] on the unit to select the desired folder, then press ENTER [22]. Turn OPERATION DIAL [16] on the unit to select the desired file, then press ENTER [22]. To return to the previous operation, press RETURN [21] on the unit.

To	Press
Switch to CD function from other function	DISC 1 — 3 on the unit (Automatic Source Selection).
Exchange other discs while playing	EX-CHANGE on the unit.

* When using a CD-DA disc, you can use the same operation to select a track.

To change the play mode

Press PLAY MODE repeatedly while the player is stopped. You can select normal play (“ALL DISCS” for all discs or “1 DISC” for a disc or for all MP3 files in the folder on the disc), shuffle play (“ALL DISCS SHUF” or “1 DISC SHUF” or SHUF*), or program play (“PGM”).

* When playing a CD-DA disc, (SHUF) Play performs the same operation as 1 DISC (SHUF) Play.

Notes on Repeat Play

- All tracks or files on a disc are played repeatedly up to five times.
- You cannot select “REP” and “ALL DISCS SHUF” at the same time.
- “REP1” indicates that a single track or file is repeated until you stop it.

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”.
- If there are files on the disc that have the “.MP3” file extension, but that are not MP3 files, the unit may produce noise or may malfunction.
- The maximum number of:
 - folders is 150 (including the root folder).
 - MP3 files is 255.
 - MP3 files and folders that can be contained on a single disc is 300.
 - 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 disc begins with a CD-DA (or MP3) session, it is recognized as a CD-DA (or MP3) disc, and playback continues until another session is encountered.
- A disc with a mixed CD format is recognized as a CD-DA (audio) disc.

Listening to the radio

- 1 Select "FM" or "AM."
Press TUNER/BAND **[4]** repeatedly.
- 2 Select the tuning mode.
Press TUNING MODE **[30]** repeatedly until "AUTO" appears.
- 3 Tune in the desired station.
Press +/- (or TUNING +/- on the unit) **[17]**. Scanning stops automatically when a station is tuned in, and then "TUNED" and "STEREO" (for stereo programs only) appear.



- 4 Adjust the volume.
Press VOLUME +/- (or turn MASTER VOLUME on the unit) **[15]**.

To stop automatic scanning

Press **■ [17]**.



To tune in a station with a weak signal

If "TUNED" does not appear and the scanning does not stop, press TUNING MODE **[30]** repeatedly until "AUTO" and "PRESET" disappear, and then press +/- (or TUNING +/- on the unit) **[17]** repeatedly to tune in the desired station.

To reduce static noise on a weak FM stereo station

Press FM MODE **[26]** repeatedly until "MONO" appears to turn off stereo reception.

Recording from a disc onto a USB device

You can connect an optional USB device (Digital music player or USB storage media) to the  (USB) port  on the unit and record music from a disc to the USB device.

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



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

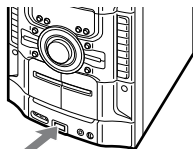
The approximate size of the recording is about 1 MB per minute of recording time from a CD. The size may be larger when recording from an MP3 disc.

See “Playable/Recordable USB devices” (page 43) for a list of USB devices that can be connected to this system.

Synchro Recording

You can easily record an entire disc onto a USB device.

- 1 Connect a recordable USB device to the  (USB) port  as shown below.



USB device (Digital music player or USB storage media)

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.

- 2 Select the CD function, then load the disc you want to record.

- 3** Press PLAY MODE **[30]** repeatedly to select the play mode when the CD player is stopped.

The play mode automatically changes to normal play mode, if you start recording in shuffle play mode, repeat play mode or in program play mode (when no tracks or MP3 files are programmed).

For details about the play mode, see “To change the play mode” (page 14).

- 4** Press CD-USB SYNC/REC1 **[18]** on the unit.


“REC” flashes, and the display cycles through “CD-USB SYNC,” “xxxxxxFREE” (remaining space on the USB device) and “PUSH ENTER.” The USB device stands by for recording and the CD player pauses for play.

- 5** Press ENTER **[22]**.

Recording starts. When the recording is completed, the CD player and the USB device stop automatically.

Recording a single track or MP3 file during playback (REC1)

You can easily record the track or MP3 file that is currently being played back onto an USB device.



- 1** Connect a recordable USB device to the  (USB) port **[12]**.
- 2** Select the CD function, then load the disc you want to record.
- 3** Select the track or MP3 file you want to record, then start play.
- 4** Press CD-USB SYNC/REC1 **[18]** on the unit while the selected track or MP3 file is being played back. “REC” flashes, and the display cycles through “CD-USB REC1,” “xxxxxxFREE” (remaining space on the USB device) and “PUSH ENTER.” The USB device stands by for recording and the CD player pauses for play.
- 5** Press ENTER **[22]**.
Recording starts. When the recording is completed, the CD player continues to play.

To stop recording

Press  **[17]**.













Continued 

To remove the USB device

- 1 Check that the REC/ERASE indicator  on the unit is off.
- 2 Press I/⏻  to turn off the system.
- 3 Remove the USB device.

To erase MP3 files or folders from the USB device

You can erase MP3 files or folders from the USB device.

- 1 Connect a recordable USB device to the  (USB) port .
 - 2 Select the USB function.
Press USB .
 - 3 Press    or  +/-  repeatedly to select the MP3 file or folder you want to erase.
 - 4 Press ERASE  on the unit.
“TRACK ERASE” or “FOLDER ERASE,” and “PUSH ENTER” appear alternately in the display.
To cancel the erase operation, press  .
 - 5 Press ENTER .
- The selected MP3 file or folder is erased.

Folder and file generation rules

When first recording to an USB device, a “MUSIC” folder is created directly below the “ROOT.” Folders and files are generated within this “MUSIC” folder as follows according to the recording method.

Synchro Recording¹⁾

Recording source	Folder name	File name
MP3	Same as the recording source ²⁾	
CD-DA	“FLDR001” ³⁾	“TRACK001” ⁴⁾

REC1 recording

Recording source	Folder name	File name
MP3	“REC1” ⁵⁾	Same as the recording source ²⁾
CD-DA		“TRACK001” ⁴⁾

¹⁾ In Program Play mode, the folder name is “FLDRxxx,” and the file name depends on the recording source (CD-DA disc or MP3 disc).

²⁾ Up to 32 characters of the name are assigned.

³⁾ Folder numbers are assigned serially thereafter.

⁴⁾ File numbers are assigned serially thereafter.

⁵⁾ A new file is recorded in the “REC1” folder each time REC1 recording is performed.

Notes

- Do not connect the system and the USB device through an USB hub.
- When recording from a CD, the tracks are recorded as 128 kbps MP3 files. When recording from an MP3 disc, MP3 files are recorded with the same bit rate as the original MP3 files.
- While recording from an MP3 disc, no sound is output and “HIGH SPEED” appears.
- CD text information is not recorded in the created MP3 files.
- If you cancel the recording partway, an MP3 file is created up to the point when the recording was stopped.
- Recording stops automatically if:
 - the USB device runs out of space during recording.
 - the number of MP3 files on the USB device reaches the limit for the number that the system can recognize.
- Up to 999 MP3 files or 997 folders can be contained on a single USB device. The maximum number of MP3 files and folders may vary depending on the MP3 file and folder structure.
- You cannot erase MP3 files and folders in shuffle play mode or program play mode.
- If the folder to be erased contains non-MP3 format files or sub folders, these are not erased.
- If a folder or file that you are trying to record 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.
- When recording after the erase operation has been performed, the new folders and files are registered to the erased locations, so files may not be played back in the recorded order.
- The Program Play setting is erased when the erase operation is performed.


Listening to music of an USB device

You can listen to music stored in the USB device.

The audio format that can be played back by this system is MP3* only.

See “Playable/Recordable USB devices” (page 43) for a list of USB devices that can be connected to this system.

* Files with copyright protection (Digital Rights Management) cannot be played by this system.

- 1 Select the USB function.
Press USB **[4]**.
- 2 Connect an optional USB device to the  (USB) port **[12]** on the unit.

When the USB device is connected, the display changes as follows:
“READING” → “STORAGE DRIVE*”

* When connecting USB storage media, the volume label is displayed next if recorded.

Note

It may take about 10 seconds before “READING” appears depending on the type of USB device connected.

- 3 Start playback.
Press **▶** (or **▶||** on the unit) **[17]**.
- 4 Adjust the volume.
Press VOLUME +/- (or turn MASTER VOLUME on the unit) **[15]**.

Continued 

To remove the USB device

- 1 Press **■** [17] to stop playback.
- 2 Check that the REC/ERASE indicator [13] on the unit is off.
- 3 Press **I/⏏** [1] to turn off the system.
- 4 Remove the USB device.

Other operations

To	Press
Pause playback	 (or ▶▶) on the unit [17]. To resume play, press the button again.
Stop playback	■ [17]. To cancel resume play, press the button twice and check that "RESUME" disappears from the display.
Select a folder	📁 +/- [17].
Select a file	◀◀/▶▶ [17].
Select a folder and file on an USB device while viewing the folder and file names on the display	Turn OPERATION DIAL [16] on the unit to select the desired folder, then press ENTER [22]. Turn OPERATION DIAL [16] on the unit to select the desired file, then press ENTER [22]. To return to the previous operation, press RETURN [21] on the unit.

To	Press
Find a point in a file	Hold down ◀◀/▶▶ [17] during playback, and release the button at the desired point.
Select Repeat Play	REPEAT [26] repeatedly until "REP" or "REP1" appears.

To change the play mode

Press PLAY MODE [30] repeatedly while the USB device is stopped. You can select normal play ("📁") for all files in the folder on the digital music player, shuffle play ("SHUF" or "📁 SHUF"), or program play ("PGM").

Notes on the USB device

- You cannot change the play mode during playback.
- Some time may be needed to start playback when:
 - the folder structure is complex.
 - the memory capacity is excessive.
- 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.
- Do not connect the system and the USB device through an USB hub.
- With some connected USB devices, after an operation is performed, there may be a delay before it is performed by this system.
- If the system is turned off during Resume Play mode, when the system is turned on again playback starts from the beginning of the MP3 file that was in Resume Play mode.

- This system does not necessarily support all the functions provided in a connected USB device.
- Files recorded by this system are played back in the order of folder creation. Files recorded by a device other than this system such as a computer may not be played back in the order in which they were recorded.
- The playback order for the system may differ from the playback order of the connected USB device.
- Always turn off the system before removing the USB device. Removing the USB device while the system is on may corrupt the data on the USB device.
- Do not save other types of files or unnecessary folders on an USB device that has MP3 files.
- Folders that have no MP3 files are skipped.
- The system can only play MP3 files that have a file extension of “.MP3”.
- If there are files on the USB device that have the “.MP3” file extension, but that are not MP3 files, the unit may produce noise or may malfunction.
- Up to 999 MP3 files or 997 folders can be contained on a single USB device. The maximum number of MP3 files and folders may vary depending on the MP3 file and folder structure.
- Compatibility with all MP3 encoding/writing softwares, recording devices, and recording media cannot be guaranteed. Incompatible USB device may produce noise or interrupted audio or may not play at all.

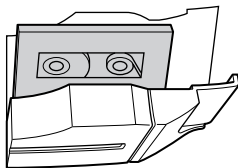
Playing a tape

1 Select a tape deck.

Press TAPE A/B on the unit **[4]** repeatedly.

2 Insert a tape.

Press **▲** PUSH **[6]** on the unit, and insert the TYPE I (normal) tape into the cassette holder with the side you want to play facing forward. Make sure there is no slack in the tape to avoid damaging the tape or the tape deck. Press **▲** PUSH **[6]** on the unit again to close the cassette holder.



3 Start playback.

Press **▶** (or **▶||** on the unit) **[17]**. Do not eject the tape during playback or recording, as this may cause irreparable damage to the tape and cassette holder.

4 Adjust the volume.

Press VOLUME +/- (or turn MASTER VOLUME on the unit) **[15]**.

Continued 

Other operations

To	Press
Pause playback	II (or ▶II on the unit) [17] . To resume play, press the button again.
Stop playback	■ [17] .
Rewind or fast forward	◀◀/▶▶ [17] .

Using optional audio components

- 1 Connect additional audio component to the AUDIO INPUT L/R jacks **[11]** on the unit using an audio analog cord (not supplied).
- 2 Turn down the volume.
Press VOLUME – (or turn MASTER VOLUME on the unit towards –) **[15]**.
- 3 Select the AUDIO function.
Press AUDIO **[4]** on the unit.
- 4 Start playing the connected component.
- 5 Adjust the volume.
Press VOLUME +/- (or turn MASTER VOLUME on the unit) **[15]**.

Adjusting the sound

To add a sound effect

To	Press
Reinforce the bass and create a more powerful sound	GROOVE [8] on the unit repeatedly until "GROOVE" appears.
Set the surround effect	SURROUND [8] on the unit repeatedly until "SUR" appears.
Select the preset sound effect	EQ [8] repeatedly. To cancel, press EQ [8] repeatedly until "EQ OFF" appears.

To turn on the subwoofer (MHC-GT55/GT44 only)

Press SUBWOOFER [5] on the unit repeatedly until "SUB ON" appears. The SUBWOOFER indicator [5] on the unit lights up. If you later disconnect the subwoofer, repeat the procedure until "SUB OFF" appears. The volume of the subwoofer is linked to the front speakers.

Tip

This system has an MP3 BOOSTER function. When an MP3 file is selected, the MP3 BOOSTER function automatically operates to enhance the sound quality, and "MP3 BOOSTER" lights up in the display.

Changing the display

To	Press
Change the illumination pattern around MASTER VOLUME [15]	ILLUMINATION [3] on the unit repeatedly while the system is on.
Change information on the display*	DISPLAY [3] repeatedly when the system is on.
Change Display mode (See below.)	DISPLAY [3] repeatedly when the system is off.

* For example, you can view CD/MP3 disc information or the USB device information, such as the track or file number or folder name during normal play, or the total playing time while the player is stopped.

The system offers the following display modes.

Display mode	When the system is off ¹⁾ ,
Demonstration	The clock display is replaced by lighting and flashing of the display window.
Power Saving Mode ²⁾	The display is turned off to conserve power. The timer and clock continue to operate.
Clock ³⁾	The clock is displayed.

¹⁾ The STANDBY indicator [1] on the unit lights up when the system is off.

²⁾ You cannot set the clock in Power Saving Mode.

³⁾ The clock display automatically turns to Power Saving Mode after 8 seconds.

Continued 

Notes on the display information

- Characters that cannot be displayed appear as “_”.
- The following is not displayed:
 - total playing time and remaining playing time for an MP3 disc and USB device.
- 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:
 - total playing time for a CD-DA disc when the play mode is “1 DISC.”
 - 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 information using uppercase letters (A to Z), numbers (0 to 9), and symbols (“ \$ % ’ () * , - . / < = > @ [\] _ ` { } ! ? ^).

Other Operations

Creating your own program

(Program Play)

Use buttons on the remote to create your own program.

1 Select the desired function.

CD

Press CD [4] to select the CD function.

USB

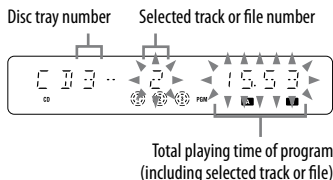
Press USB [4] to select the USB function.

2 Press PLAY MODE [30] repeatedly until "PGM" appears while the system is stopped.

3 Press DISC SKIP [20] repeatedly to select a disc.

4 Press [Left]/[Right] [17] repeatedly until the desired track or file number appears.

When programming MP3 files, press [Folder] +/- [17] repeatedly to select the desired folder, and then select the desired file.



5 Press ENTER [22] to add the track or file to the program.

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.

6 Repeat steps 3 through 5 to program additional tracks or files, up to a total of 25 tracks or files.

7 To play your program of tracks or files, press ► [17].
The program remains available until you open the disc tray or remove the USB device. To play the same program again, press ► [17].

To cancel Program Play

Press PLAY MODE [30] repeatedly until “PGM” disappears while the system is stopped.

To delete the last track or file of the program

Press CLEAR [28] while the system is stopped.

Presetting radio stations

You can preset your favorite radio stations and tune them in instantly by selecting the corresponding preset number.

Use buttons on the remote to preset stations.

1 Tune in the desired station (see “Listening to the radio” (page 15)).



2 Press TUNER MEMORY [29].



3 Press +/- [17] repeatedly to select your desired preset number.

If another station is already assigned to the selected preset number, the station is replaced by the new stations.

4 Press ENTER [22].

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

Recording onto a tape

(CD Synchro recording/Manual recording/Sound Mixing)

You can record on a TYPE I (normal) tape in three ways:

CD Synchro Recording:

You can record an entire disc onto a tape.

Manual Recording:

You can record just the portions you like from a sound source, including connected audio components.

Sound Mixing:

You can "mix" sounds by playing one of the components and singing or speaking into a microphone (not supplied). The mixed sound can be recorded onto a tape.

- Load a recordable tape into deck B with the side you want to record facing forward.

Continued 

2 Prepare the recording source.

For CD Synchro Recording:

Press CD [4] to select the CD function. Load the disc you want to record, and press DISC SKIP [20] repeatedly to select the disc. To select the play mode, press PLAY MODE [30] repeatedly while the CD player is stopped (see “To change the play mode” (page 14)). To record only your favorite CD tracks or MP3 files in your desired order, perform steps 2 to 6 of “Creating your own program” (page 25).

For Manual Recording and Sound Mixing:

Select the desired source to record or mix. To record only sound from a microphone, press CD [4], and do not start playing any other source in step 4.

3 Set deck B to stand by for recording.

For CD Synchro Recording:

Press CD-TAPE SYNC [18] on the unit.

For Manual Recording and Sound Mixing:

Press TAPE REC PAUSE/START [18] on the unit.

4 Start recording.

While recording, you cannot listen to other sources.

For CD Synchro Recording:

Press ENTER [22]. When the recording is completed, the CD player and the tape deck stop automatically.

For Manual Recording:

Press TAPE REC PAUSE/START [18] on the unit, and then start playing the desired recording source. If there is noise while recording from the tuner, reposition the appropriate antenna to reduce the noise.

For Sound Mixing:

Press TAPE REC PAUSE/START [18] on the unit, and then start playing the desired source and start singing or speaking into the microphone. If acoustic feedback (howling) occurs, reduce the volume, move the microphone away from the speakers, or change the direction of the microphone.

To stop recording

Press ■ [17].

Notes

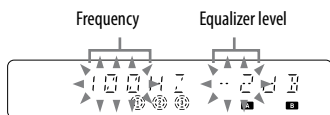
- Recording stops if you change to a different function.
- You cannot eject the disc during CD Synchro Recording.

Creating your own sound effect

You can raise or lower the levels of specific frequency ranges, and then store the setting as “USER” in the memory. Use buttons on the unit to create your own sound effect.

MHC-GT55

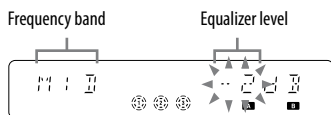
- 1 Press PRESET EQ, SURROUND or GROOVE [8] to select the audio emphasis you want for your basic sound.
- 2 Press BASS, VOCAL or GUITAR [24] to select a frequency band.
- 3 Press the button repeatedly to select a frequency, and then press +/- [23] repeatedly to adjust the equalizer level. Repeat this for each band you want to adjust.



- 4 Hold down PRESET EQ [8]. “COMPLETE” appears and the setting is stored in the memory.

MHC-GT44/GT22

- 1 Press PRESET EQ, SURROUND or GROOVE [8] to select the audio emphasis you want for your basic sound.
- 2 Press EQ BAND [9] repeatedly to select a frequency band, and then turn OPERATION DIAL [16] to adjust the equalizer level. Repeat this for each band you want to adjust.



- 3 Hold down PRESET EQ [8]. “COMPLETE” appears and the setting is stored in the memory.

To emphasize the equalizer level of a particular band (MHC-GT55 only)

The equalizer level of the corresponding band is raised and the equalizer levels of the other bands are lowered while you press FOCUS [24] above one of BASS, VOCAL or GUITAR [24].

Continued 

To call up the personal sound effect

Press PRESET EQ [8] repeatedly until “USER” appears.

To cancel the sound effect

Press PRESET EQ [8] repeatedly until “EQ OFF” appears.

Enjoying karaoke

You can sing along by connecting an optional microphone.

- 1** Turn MIC LEVEL [14] on the unit to MIN to turn down the microphone volume level.
- 2** Connect an optional microphone to the MIC jack [14] on the unit.
- 3** Start playing the music.
- 4** Turn MIC LEVEL [14] on the unit to adjust the microphone volume.

If acoustic feedback (howling) occurs, reduce the volume, move the microphone away from the speakers, or change the direction of the microphone.

After you have finished, disconnect the microphone from the MIC jack [14] on the unit.

Using the Timers

The system offers three timer functions. You cannot activate both the Play Timer and the Rec Timer at the same time. If you use either with the Sleep Timer, the Sleep Timer has priority.

Sleep Timer:

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

Press SLEEP **[31]** repeatedly.

If you select "AUTO," the system automatically turns off after the current disc, USB device or tape stops or in 100 minutes.

Do not select "AUTO" during Synchro Recording to a tape, Synchro Recording to a USB device, or during the erase operation.

Play Timer:

You can wake up to CD, tape, tuner or optional USB device at a preset time.

Rec Timer:

You can record a preset radio station at a specified time.

Use buttons on the remote to control the Play Timer and the Rec Timer. Make sure you have set the clock.

1 Prepare the sound source.

Play Timer

Prepare the sound source, and then press VOLUME +/- **[15]** to adjust the volume.

To start from a specific CD track or MP3 file, create your own program (page 25).

Rec Timer

Tune in the preset radio station (page 26).

2 Press CLOCK/TIMER SET **[25]**.

3 Press **[17]** repeatedly to select "PLAY SET" or "REC SET," and then press ENTER **[22]**. "ON" appears, and the hour indication flashes.

4 Set the time to start playing or recording.

Press **[17]** repeatedly to set the hour, and then press ENTER **[22]**. The minute indication flashes. Use the procedure above to set the minutes.

5 Use the same procedure as in step 4 to set the time to stop playing or recording.

Continued 

- 6** Select the sound source or prepare the tape.

Play Timer

Press **I◀▶/▶▶I** [17] repeatedly until the desired sound source appears, and then press **ENTER** [22]. The display shows the timer settings.

Rec Timer

Load a recordable tape into deck B. The display shows the timer settings.

- 7** Press **I/⏏** [1] to turn off the system.

The system turns on 15 seconds before the preset time. If the system is on at the preset time, the Play Timer and the Rec Timer will not play or record.

To activate or check the timer again

Press **CLOCK/TIMER SELECT** [25], press **I◀▶/▶▶I** [17] repeatedly until “PLAY SELECT” or “REC SELECT” appears, and then press **ENTER** [22].

To cancel the timer

Repeat the same procedure as above until “TIMER OFF” appears, and then press **ENTER** [22].

To change the setting

Start over from step 1.

Tips

- The Play Timer setting remains as long as the setting is not canceled manually.
- The volume is reduced to minimum during the Rec Timer.
- The Rec Timer is canceled automatically after the Rec Timer has been activated.

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 the STANDBY indicator flashes

Immediately unplug the power cord, and check the following items.

- If your system has a voltage selector, is the voltage selector set to the correct voltage?
- 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?

After the STANDBY indicator **1** stops flashing, reconnect the power cord, and turn on the system. If the issue persists, contact your nearest Sony dealer.

General

The display starts flashing as soon as you plug in the power cord even though you have not turned on the system.

- Press DISPLAY **3** once while the system is off. The demonstration disappears.

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.

Sound lacks bass.

- Check that the Black (or Red) cord is connected to the speaker's - (or +) jack correctly.

Severe hum or noise.

- Move the system away from sources of noise.
- Connect the system to a different wall socket.
- 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 **2** 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

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.

- Press PLAY MODE  repeatedly until both “PGM” and “SHUF” disappear to return to normal play.

Starting playback takes more time than usual.

- The following discs take a longer time 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

You cannot start recording to an USB device.

- The following problems may have occurred.
 - The USB device is full.
 - The number of MP3 files and folders on the USB device has reached the upper limit.
 - The USB device is write-protected.

Recording is stopped before it is finished.

- You are using an unsupported USB device. See “Playable/Recordable USB devices” (page 43) for the supported device types.
- 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 recording again.
- If the recording and erase operations are repeated multiple times, the file structure within the USB device becomes complex. Refer to the USB device operation manual for how to deal with this problem.

Recording to an USB device results in an error.

- You are using an unsupported USB device. See “Playable/Recordable USB devices” (page 43) for the supported device types.
- The USB device was disconnected or the power was turned off during recording. Delete the partially-recorded file, and record 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.
- 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 recording again.

Files are not played back in the recorded order.

- When recording after the erase operation has been performed, the new folders and files are registered to the erased locations, so files may not be played back in the recorded order.



MP3 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.

Are you using a supported USB device?

- If you connect an unsupported USB device, the following problems may occur. See “Playable/Recordable USB devices” (page 43) for the supported device types.
 - 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.
 - Recording stops before it is finished.

“OVER CURRENT” appears.


- A problem has been detected with the level of electrical current from the  (USB) port [12](#). Turn off the system and remove the USB device from the  (USB) port [12](#). 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 recording process. Delete the file, and try recording again.

The USB device cannot be connected into the  (USB) port [12](#).

- 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.
- Connect the supported USB device (page 43).
- 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.
- Connect the supported USB device (page 43).
- Press **▶** (or **▶||** on the unit)  to start play.

Play does not start from the first track.

- Set the play mode to normal play mode.

MP3 file cannot be played back.

- The MP3 file does not have the extension “.MP3”.
- The data is not stored in MP3 format.
- USB storage media formatted with file systems other than FAT16 or FAT32 (Cluster size 512 byte — 32 kbyte) are unsupported.*
- If you use partitioned USB storage media, only MP3 files on the first partition can be played.
- Playback is possible up to 8 levels.
- The number of folders has exceeded 997.
- The number of files has exceeded 999.
- Files that are encrypted or protected by passwords, etc. cannot be played back.

* This system supports FAT16 and FAT32, but some USB storage media may not support all of these FAT. For details, see the operation manual of each USB storage media or contact the manufacturer.

Tuner

Severe hum or noise, or stations cannot be received. (“TUNED” or “STEREO” 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.
- Connect a commercially available external antenna.
- Consult your nearest Sony dealer if the supplied AM antenna has come off the plastic stand.
- Turn off nearby electrical equipment.

Tape deck

The sound exhibits excessive wow or flutter or dropout.

- Clean the capstans and pinch rollers. Also, clean and demagnetize the tape heads. See “Precautions” for details (page 39).

To change the AM tuning interval

The AM tuning interval is factory-preset to 9 kHz (or 10 kHz, for some areas). You cannot change the AM tuning interval in Power Saving Mode.

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

- 1 Tune in any AM station, and then turn off the system.
- 2 While holding down TUNING + [17], press I/⏏ [1].
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/USB player power by using the CD/USB power management function. By default, the CD/USB power is turned on. You cannot change the setting in Power Saving Mode.

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

- 1 Press CD [4] to select the CD function.
- 2 Press I/⏏ [1] to turn off the system.

- 3 After “STANDBY” stops flashing, press I/⏏ [1] while holding down [17]. “CD/USB POWER OFF” appears. When the CD/USB player power is turned off, the disc access time increases. 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/USB player power, repeat the procedure until “CD/USB POWER 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 system to its factory default settings.

- 1 Disconnect and reconnect the power cord, and then turn on the system.
- 2 Press [17], [17], and GROOVE [8] at the same time.
“COLD RESET” appears in the display. All user-configured settings, such as preset radio stations, timer, and the clock, are deleted.

Messages

CD/MP3 player, Tuner, Tape

LOCKED: The disc tray does not open.

Contact your nearest Sony dealer.

NO STEP: All of the programmed tracks have been erased.

NO TAB: You cannot record because the overwrite protection tab has been removed from the cassette.

NOT IN USE: You pressed an invalid button.

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

OVER: You have reached the end of the disc while pressing ►► [17] during playback or pause.

PUSH SELECT: Select “PLAY SELECT” or “REC SELECT.”

PUSH STOP: Stop playback, then select the play mode.

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

STEP FULL: You tried to program more than 26 tracks or files (steps).

USB device

DATA ERROR: You tried to play a file that is not playable.

DEVICE ERROR: The USB device could not be recognized or an unknown device is connected (page 36).

FATAL ERROR: The USB device was removed during recording or erase operation, and may have been damaged.

NO STEP: All of the programmed tracks or files have been erased.

NO SUPPORT: An unsupported USB device is connected, or the USB device is connected to this system through a hub.

NO TRACK: No playable file is loaded in the system.

NOT IN USE: You tried to perform a specific operation under conditions where that operation is prohibited.

OVER CURRENT: An over current was detected.

PROTECTED: The USB device is write-protected.

PUSH STOP: You tried to perform an operation that can be performed only when the system is stopped.

READING: The system is reading information of the USB device. Some buttons are not available.

REC ERROR: Recording did not start, stopped partway, or otherwise could not be performed (page 34).

REMOVED: The USB device has been removed.

STEP FULL: You tried to program more than 26 tracks or files (steps).

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 center 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

- 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.
- Completely disconnect the power cord (mains lead) from the wall socket (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

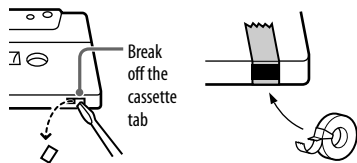
This speaker system is not magnetically shielded, and the picture on nearby TV sets may become magnetically distorted. In this situation, turn off the TV, wait 15 to 30 minutes, and turn it back on. If there is no improvement, move the speakers far away from the TV.

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, benzene, or alcohol.

To prevent a tape from being accidentally recorded over

Break off the cassette's overwrite protection tab from side A or B as illustrated.



To later reuse the tape for recording, cover the broken tab with adhesive tape.

About a tape longer than 90 minutes

The use of the tape with more than 90 minutes of play time is not recommended except for long, continuous recording or playback.

Cleaning the tape heads

Use dry- or wet-type cleaning cassette (available separately) after every 10 hours of use, before you start an important recording, or after playing an old tape. Failure to clean the tape heads can cause degraded sound quality or an inability of the unit to record or play tapes. For details, refer to the instructions of the cleaning cassette.

Demagnetizing the tape heads

Use a demagnetizing cassette (available separately) after every 20 to 30 hours of use. Failure to demagnetize the tape heads can cause an increase in noise, a loss of high frequency sound, and an inability to completely erase tapes. For details, refer to the instructions of the demagnetizing cassette.

Specifications

Main unit

Amplifier section

MHC-GT55

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

Front speaker

Power output (rated): 110 W + 110 W
(at 6 Ω , 1 kHz, 1% THD)

RMS output power (reference):

200 W + 200 W (per channel at 6 Ω ,
1 kHz, 10% THD)

Subwoofer

RMS output power (reference): 190 W
(at 6 Ω , 80 Hz, 10% THD)

MHC-GT44

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

Front speaker

Power output (rated): 90 W + 90 W
(at 6 Ω , 1 kHz, 1% THD)

RMS output power (reference):

150 W + 150 W (per channel at 6 Ω ,
1 kHz, 10% THD)

Subwoofer

RMS output power (reference): 150 W
(at 6 Ω , 80 Hz, 10% THD)

MHC-GT22

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

Power output (rated): 110 W + 110 W
(at 6 Ω , 1 kHz, 1% THD)

RMS output power (reference):

200 W + 200 W (per channel at 6 Ω ,
1 kHz, 10% THD)

Inputs

AUDIO (phono jack): voltage 250 mV,
impedance 47 kilohms

MIC (phone jack): sensitivity 1 mV,
impedance 10 kilohms

↔ (USB) port: Type A

Outputs

PHONES (stereo mini jack): accepts
headphones of 8 Ω or more

SPEAKER: accepts impedance of 6 to 16 Ω

SUB WOOFER OUT (MHC-GT55/GT44
only): accepts impedance of 6 to 16 Ω

USB section

Supported bit rate

MP3 (MPEG 1 Audio Layer-3):
32 – 320 kbps, VBR

Sampling frequencies

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

Transfer speed

Full-Speed

Supported USB device

Mass Storage Class

Maximum current

500 mA

CD player section

System: Compact disc and digital audio
system

Laser: Semiconductor laser ($\lambda=770$ –
810 nm)

Emission duration: continuous

Frequency response: 20 Hz – 20 kHz

Signal-to-noise ratio: More than 90 dB

Dynamic range: More than 88 dB

Tape deck section

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

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section:

Tuning range:

87.5 — 108.0 MHz (50 kHz step)

Antenna: FM lead antenna

Antenna terminals: 75 ohms unbalanced

Intermediate frequency: 10.7 MHz

AM tuner section:

Tuning range

Latin American and Oceanian
models:

530 — 1,710 kHz (with 10 kHz tuning
interval)

531 — 1,710 kHz (with 9 kHz tuning
interval)

Other models:

530 — 1,610 kHz (with 10 kHz tuning
interval)

531 — 1,602 kHz (with 9 kHz tuning
interval)

Antenna: AM loop antenna, external
antenna terminal

Intermediate frequency: 450 kHz

Speaker

Front speaker SS-GT55M for MHC-GT55

Speaker system: 3-way, 3-unit, bass-
reflex type

Speaker units: Subwoofer 15 cm,
cone type, Woofer 15 cm, cone type,
Tweeter 4 cm, horn type

Rated impedance: 6 Ω

Dimensions (w/h/d): Approx. 250 \times
405 \times 300 mm

Mass: Approx. 5.3 kg net per speaker

Subwoofer SS-WG55 for MHC-GT55

Speaker system: 1-unit, bass-reflex
type

Speaker units: Woofer 25 cm, cone
type

Rated impedance: 6 Ω

Dimensions (w/h/d): Approx. 320 \times
405 \times 360 mm

Mass: Approx. 8.4 kg

Front speaker SS-GT44 for MHC-GT44/
GT22

Speaker system: 3-way, 3-unit, bass-
reflex type

Speaker units: Subwoofer 13 cm,
cone type, Woofer 13 cm, cone type,
Tweeter 4 cm, horn type

Rated impedance: 6 Ω

Dimensions (w/h/d): Approx. 240 \times
365 \times 250 mm

Mass: Approx. 4.0 kg net per speaker

Subwoofer SS-WG44 for MHC-GT44

Speaker system: 1-unit, bass-reflex
type

Speaker units: Woofer 20 cm, cone
type

Rated impedance: 6 Ω

Dimensions (w/h/d): Approx. 270 \times
325 \times 345 mm

Mass: Approx. 5.8 kg

General

Power requirements

Oceanian model: AC 230 — 240 V, 50/60 Hz

Mexican model: AC 127 V, 60 Hz

Argentine model: AC 220 V, 50/60 Hz

Other models: AC 120, 220 or 230 — 240 V, 50/60 Hz, Adjustable with voltage selector

Power consumption

MHC-GT55: 225 W

MHC-GT44: 250 W

MHC-GT22: 150 W

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

MHC-GT55:

Approx. 280 × 365 × 425 mm

MHC-GT44/GT22:

Approx. 280 × 325 × 425 mm

Mass (excl. speakers)

MHC-GT55: 10.5 kg

MHC-GT44/GT22: 10.0 kg

Supplied accessories: Remote Commander (1), R6 (Size AA) batteries (2), AM loop antenna (1), FM lead antenna (1), Speaker pads MHC-GT55/GT44 (12), MHC-GT22 (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.
- Halogenated flame retardants are not used in cabinets.

Playable/Recordable USB devices

You can use the following Sony USB devices on this system.

Verified Sony digital music player (as of April 2007)

Product name	Model name
Walkman®	NWD-B103 / B105 / B103F / B105F

Verified Sony IC Recorder (as of April 2007)

Product name	Model name
IC Recorder	ICD-U50 / U60 / U70

Verified Sony USB storage media (as of April 2007)

Product name	Model name
MICROVAULT	USM 256J / 512J / 1GJ / 2GJ / 4GJ
	USM512JX / 1GJX / 2GJX / 4GJX
	USM256H / 512H / 1GH / 2GH / 4GH

Notes

- Do not use USB devices other than these USB devices. Operation of models not listed here is not guaranteed.
- Operation may not always be ensured even when using these USB devices.
- Some of these USB devices may not be available for purchase in certain areas.
- When formatting the above models, be sure to format using the model itself or the dedicated formatting software for that model. Otherwise, you may be unable to record the USB device properly on this system.

