

# SONY HCD-GX40 Mini Hi-Fi Component System User Manual

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#### **WARNING**

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

To prevent fire, do not Cover the ventilation of the apparatus with news papers, table-cloths, curtains, etc. And don't place lighted candles on the apparatus. To prevent fire or shock hazard, do not place objects filled with liquids, such as vases, on the apparatus.

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

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

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



#### NOTICE FOR THE CUSTOMERS IN THE U.S.A.



Risk of electric shock do not open.

Caution: to Reduce the risk of electric shock, do not remove cover or back.

No User serviceable parts inside.

Refer serving To qualifying Service personal.

This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

# **CAUTION**

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

#### **WARNING**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

# **CAUTION**

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

# Note to CATV system installer:

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

#### NOTICE FOR THE CUSTOMERS IN CANADA

#### **CAUTION**

TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS POLARIZED AC PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

#### **Except for European models**

ENERGY STAR® is a U.S. registered mark. As an ENERGY STAR® Partner, Sony Corporation has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.



# **List of Button Locations and Reference Pages**

# How to use this page

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

# **Contents** 1 Main unit 2 Sub woofer **3 Remote Control** 4 Hooking up the system 5 Inserting two R6 (size AA) batteries into the remote 6 Setting the clock 7 Loading a CD 8 Playing a CD 9 Programing CD tracks 10 Other Operations 11 Presetting radio stations 12 Listening to the radio 13 Using the Radio Data System (RDS 13.1 Receiving RDS broadcasts 14 Loading a tape 15 Playing a tape 16 Recording to a tape 16.1 CD Synchro Recording/Recording Manually 17 Timer-recording radio programs 18 Using the sub woofer 19 Adjusting the sound 19.1 Selecting the sound effect 19.2 Selecting the surround effect 20 Turning off the display 21 Using the CD display 21.1 Checking the remaining time 21.2 Checking the total playing time 22 Enhancing video game sound 22.1 Game Sync 23 Mixing video game sound with other sound source 24 Falling asleep to music 25 Waking up to music 26 Hooking up video game machine 27 Troubleshooting 27.1 Problems and remedies 28 Speakers 28.1 Problems and remedies (continued) 28.2 Tape Deck 28.3 Tuner 29 Messages 30 Additional Information 30.1 Precautions 31 Specifications 32 Documents / Resources 32.1 References 33 Related Posts

# Main unit

# **ALPHABETICAL ORDER**

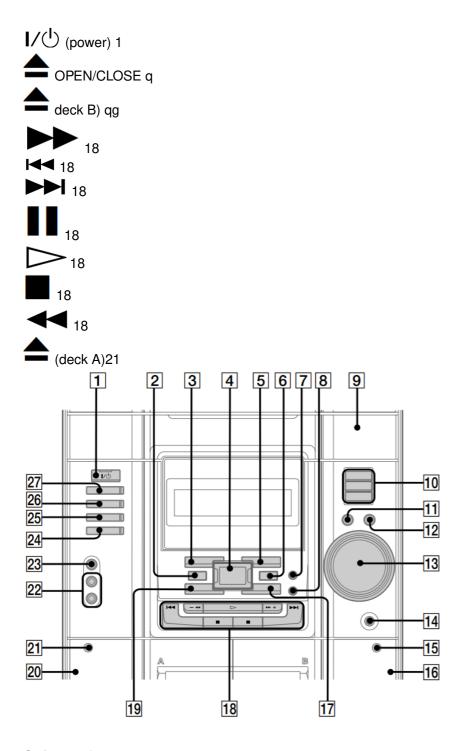
## A - E

AUDIO jacks ws (24) CD wj (11, 12, 18) CD SYNC 7 (18) Deck A w; (16, 17) Deck B qh (16 – 19) DISC 1 – 3 0 (11, 12) DISC SKIP/EX-CHANGE qa (10, 11) Disc tray 9 (10) DISPLAY 2 (16, 21) EFFECT ON/OFF qj (20)

#### G - Z

GAME wf (22, 24) GAME EQ ql (20, 24) GAME MIXING 4 (22) GROOVE 6 (20) MOVIE EQ 5 (20) MUSIC EQ 3 (20) PHONES jack qf REC PAUSE/START 8 (18) TAPE A/B wg (16, 18) TUNER/BAND wh (13 – 15, 18) VIDEO jack wd (24) VOLUME control q

# **BUTTON DESCRIPTIONS**



Sub woofer

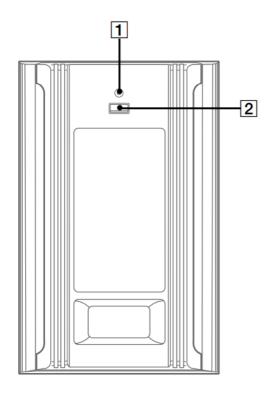
(MHC-GX40 only)

# **ALPHABETICAL ORDER**

 $\mathbf{A} - \mathbf{Z}$ 

Indicator 1 (20)

ON/OFF 2 (20)



# **Remote Control**

# **ALPHABETICAL ORDER**

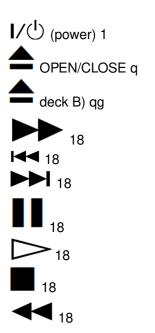
# A - G

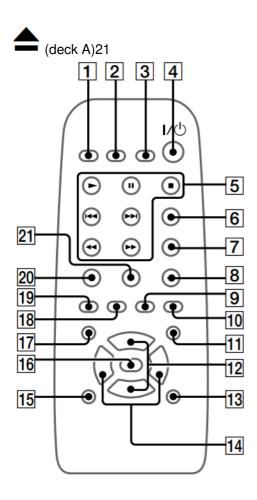
CD ql (11, 12, 18) CLEAR w; (12) CLOCK/TIMER SELECT 2 (19, 23) CLOCK/TIMER SET 3 (10, 19, 23) DISPLAY 6 (16, 21) D.SKIP 7 (11) ENTER qg (10, 12 - 14, 19, 23) EQ +/- qf (2 GAME 0 (22, 24) GROOVE qd (20) 1234 5 6 7 8 9 q;

#### O - Z

ON/OFF qh (20) PLAY MODE wa (11, 12, 17) PRESET  $\pm -5$  (13  $\pm 15$ ) REPEAT 8 (11) SLEEP 1 (22) STEREO/MONO 8 (15) SURROUND qa (20) TAPE A/B 9 (16, 18) TUNER MEMORY qj (13, 14) TUNER/BAND qk (13  $\pm 15$ , 18) TUNING  $\pm -5$  (13  $\pm 15$ ) VOL  $\pm -5$  (14  $\pm 15$ ) VOL  $\pm -5$  (15  $\pm 15$ 

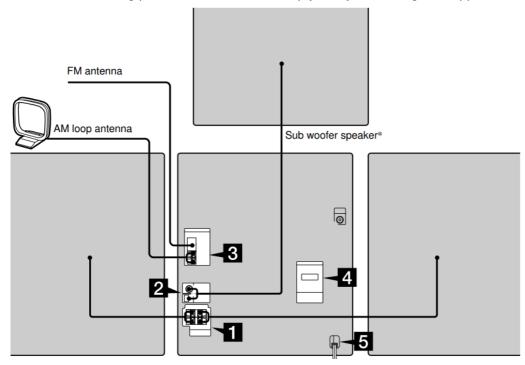
# **BUTTON DESCRIPTIONS**





# Hooking up the system

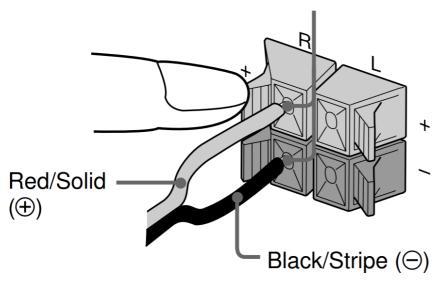
Perform the following procedure 1 to 5 to hook up your system using the supplied cords and accessories.



MHC-GX40 only

# 1. Connect the front speakers.

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



# 2. Connect the sub woofer speaker. (MHC-GX40 only)

Connect the speaker cords to the SUB WOOFER OUT jack and SUB **WOOFER CONTROL** jack as shown below.

# SUB WOOFER OUT jack

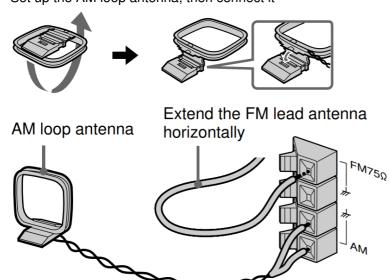


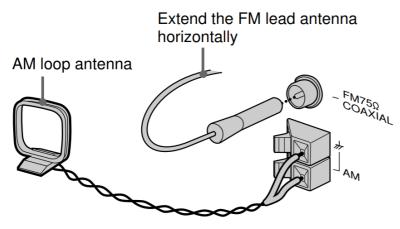
SUB WOOFER CONTROL jack

Hooking up the system (continued)

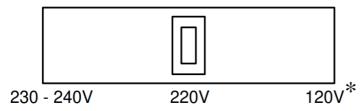
# 3. Connect the FM/AM antennas.

Set up the AM loop antenna, then connect it





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



Middle Eastern models: 120 - 127 V

5. Connect the power cord to a wall outlet.

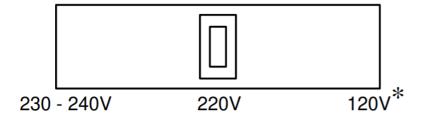
The demonstration appears in the display. When you press ?/1, the system turns on and the demonstration automatically ends. If the supplied adapter on the plug does not fit your wall outlet, detach it from the plug (only for models equipped with an adapter)

### To connect optional components

See page 24.

# To attach the front speaker pads

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



## **Note**

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

# Placing the sub w oofer (MHC-GX40 only)

Since the human ear cannot detect the direction and position where the bass sound being reproduced by a woofer (below 150 Hz) comes from, you can place the woofer wherever you like in your room. To obtain a better bass reproduction, we recommend you to place the woofer on a solid floor where the resonance is unlikely to occur.

#### **Notes**

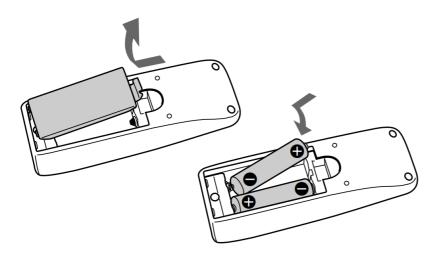
- Always place the woofer vertically, keeping a few centimeters from away the wall.
- If the woofer is placed in the center of a room, the bass could be extremely weakened. This is due to the influence of the standing wave of the room. If this happened, move the woofer away from the center of a room or eliminate the cause of the standing wave, by placing a bookshelf on the wall, etc

# When carrying this system

Perform the following procedure to protect the CD mechanism.

- 1. Make sure that all discs are removed from the system.
- 2. Press ?/1 to turn off the system.
- 3. Unplug the power cord.

# Inserting two R6 (size AA) batteries into the remote



#### qiT

With normal use, the batteries should last for about six months. When the remote no longer operates the system, replace both batteries with new ones.

#### Note

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

# Setting the clock

- 1. Press ?/1 to turn on the system.
- 2. Press CLOCK/TIMER SET on the remote.
- 3. Press . or > on the remote repeatedly to set the hour.
- 4. Press ENTER on the remote.

The minute indication flashes.

Press . or > on the remote repeatedly to set the minute.

6. Press ENTER on the remote.

The clock starts working.

# To adjust the clock

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

#### Note

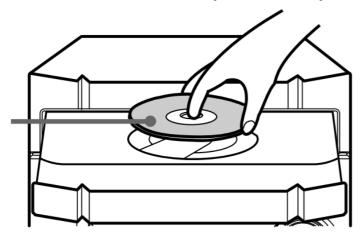
The clock settings are canceled when you disconnect the power cord or if a power failure occurs.

# Loading a CD

# 1. Press Z OPEN/CLOSE.

The disc tray opens.

2. Place a CD with the label side up on the disc tray.



3. Press Z OPEN/CLOSE to close the disc tray.

# Playing a CD

# Normal Play/Shuffle Play/Repeat Play

This system lets you play the CD in different play modes

- 1. Press CD.
- 2. Press PLAY MODE on the remote repeatedly until the mode you want appears in the display.

Select	To play
ALL DISCS (Normal Play)	All CDs in the disc tray continuously.
1DISC (Normal Play)	The CD you have selected in original order.
ALL DISCS SHUF (Shuffle Play)	The tracks on all CDs in random order
1DISC SHUF (Shuffle Play)	The tracks on the CD you have selected in random o rder
PGM (Program Play)	The tracks on all CDs in the order you want them to be played (see "Programing CD tracks" on page 12).

3. Press H (or N on the remote).

# **Other Operations**

То	Do this
Stop play	Press x.
Pause	Press X. Press again to resume play.
Select a track	During play or pause, press > or
Find a point in a track	During play, press and hold M or m. Release it when y ou find the desired point
Select a CD in stop mode	Press DISC 1 – 3 or DISC SKIP/ EX-CHANGE (or D.S KIP on the remote)
Switch to CD function from another source	Press DISC 1 – 3 (Automatic Source Selection).
Remove a CD	Press Z OPEN/CLOSE.
Exchange other CDs while playing	Press DISC SKIP/EX-CHANGE.
Play repeatedly (Repeat Play)	Press REPEAT on the remote during play until "REP" or "REP 1" appears. REP*: For all the tracks on the CD up to five times. REP 1**: For a single track only. To cancel playing repeatedly, press REPEAT until "REP" or "REP 1" disappears.

- You cannot select "REP" and "ALL DISCS SHUF" at the same time.
- When you select "REP 1", that track is repeated endlessly until "REP 1" is canceled.

### Note

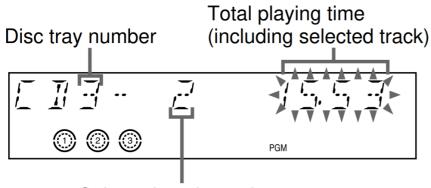
The play mode cannot be changed while playing a disc. To change the play mode, press x first to stop playing.

# **Programing CD tracks**

# **Program Play**

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

- 1. Press CD.
- 2. Press PLAY MODE on the remote repeatedly until "PGM" appears in the display.
- 3. Press one of DISC 1 3 to select a CD. To program all the tracks on a CD at once, proceed to step 5 with "AL" displayed.
- 4. Press or until the desired track appears in the display.



Selected track number

# 5. Press ENTER on the remote.

The track is programed. The program step number appears, followed by the total playing time.

# 6. Program additional discs or tracks.

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

7. Press (or on the remote).

# **Other Operations**

То	Do this
Cancel Program Play	Press PLAY MODE on the remote repeatedly until "PG M" and "SHUF" disappear.
Clear a track from the end	m the end Press CLEAR on the remote in stop mode.

#### **Tips**

- The program you made remains after Program Play finishes. To play the same program again, press CD, then press (or on the remote).
- "-.-" appears when the total CD program time exceeds 100 minutes, or when you select a CD track whose number is 21 or over.

# **Presetting radio stations**

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

There are two ways to store the station presets.

То	Method
Automatically preset all of the stations that can be rec eived in your area	Automatic Tuning Preset
Manually set the radio frequency of your favourite station	Manual Tuning Preset

## Setting presets through automatic tuning

- 1. Press TUNER/BAND repeatedly to select "FM" or "AM".
- 2. Press and hold m or M (or **TUNING** or + on the remote) until the frequency indication starts to change, then release it. Scanning stops automatically when the system tunes in a station. "**TUNED**" and "**STEREO**" (for an FM stereo program) appear.

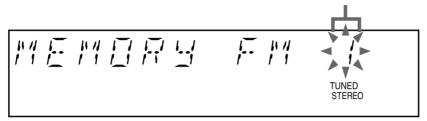


If "TUNED" does not appear and the scanning does not stop Set the frequency of the desired radio station as described in steps 2 through 6 of "Setting presets through manual tuning".

3. Press TUNER MEMORY on the remote.

A preset number appears in the display. The stations are stored from preset number 1.

# Preset number



- 4. Press or ▶ (or PRESET or + on the remote) repeatedly to select the desired preset number.
- 5. Press **ENTER** on the remote.
- 6. Repeat steps 1 to 5 to store other stations.

# Setting presets through manual tuning

- 1. Press TUNER/BAND repeatedly to select "FM" or "AM".
- 2. Press or ▶► (or TUNING or + on the remote) repeatedly to tune in the desired station.
- 3. Press **TUNER MEMORY** on the remote. A preset number appears in the display. The stations are stored from preset number 1.
- 4. Press ◄ or ► (or PRESET or + on the remote) repeatedly to select the desired preset number.
- 5. Press **ENTER** on the remote.
- 6. Repeat steps 1 to 5 to store other stations.

# **Other Operations**

То	Do this
Tune in a station with a weak signal	Follow the procedure described in "Setting presets thr ough manual tuning.
Set another station to an existing preset number	Start over from step 1. After step 3, press or (or PRESET – or + on the remote) repeatedly t o select the preset number you want to store the other station.

## To change the AM tuning interval (except for the European and Middle Eastern models)

The AM tuning interval is factory-set to 9 kHz (10 kHz in some areas). To change the AM tuning interval, tune in any AM station first, then turn off the system. While holding down TUNER/BAND, turn the system back on. When you change the interval, all the AM preset stations are erased. To reset the interval, repeat the same procedure.

#### Note

You cannot change the AM tuning interval in the Power Saving Mode.

#### **Tips**

- The preset stations are retained for half a day even if you disconnect the mains lead or if a power failure occurs.
- To improve broadcast reception, reorient or move the supplied antenna near a window or outdoor.

# Listening to the radio

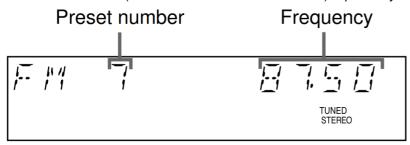
You can listen to a radio station either by selecting a preset station, or by manually tuning in the station.

# Listening to a preset station

#### **Preset Tuning**

Preset radio stations in the tuner's memory first (see "Presetting radio stations" on page 13).

- 1. Press TUNER/BAND repeatedly to select "FM" or "AM".
- 2. Press or ▶▶ (or PRESET or + on the remote) repeatedly to select the desired preset station.



#### **Manual Tuning**

- 1. Press TUNER/BAND repeatedly to select "FM" or "AM".
- 2. Press or (or TUNING or + on the remote) repeatedly to tune in the desired station.

#### **Tips**

- To improve broadcast reception, adjust the supplied antennas.
- When an FM stereo program has static noise, press STEREO/MONO on the remote repeatedly until "MONO" appears. There will be no stereo effect, but the reception will improve.
- Press and hold or \(\bigcup \) (or TUNING or + on the remote). The frequency indication changes and scanning stops when the system tunes in a station (Automatic Tuning).
- To record from the radio, see "Recording to a tape" on page 18 or "Timer-recording radio programs" on page 19.

# Using the Radio Data System (RDS

(MHC-RG33/RG22, European model only)

#### What is the Radio Data System?

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

#### Note

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

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

#### Receiving RDS broadcasts

Simply select a station from the FM band. When you tune in a station that provides RDS services, the station name appears in the display.

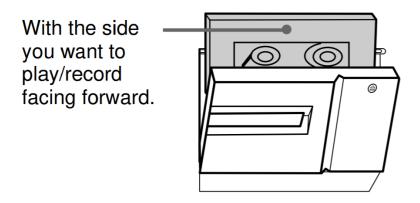
# To check the RDS information

Each time you press DISPLAY, the display changes cyclically as follows: Station name\* t Frequency t Program type\* t Clock display t Effect status

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

# Loading a tape

- 1. Press TAPE A/B repeatedly to select deck A or B.
- 2. Press =
- 3. Insert a tape in deck A or B with the side you want to play/record facing forward.



# Playing a tape

You can use TYPE I (normal) tape.

# 1. Load a tape.

To play both decks in succession, press PLAY MODE on the remote repeatedly until "RELAY" (Relay Play)\* appears in the display.

2. Press (or N on the remote). The tape starts playing.



After the playback of the front side of deck A, deck B plays the front side, then stops.

# **Other Operations**

То	Do this
Stop play	Press .
Pause	Press ■ . Press again to resume play
Fast-forward or rewind	Press Press or
Remove the cassette	Press .

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

# To go forward

Press ►►Iduring playback.

"TAPE A (or TAPE B) >>> +1" appears.

# To go back

Press during playback. "TAPE A (or TAPE B) <<< −1" appears. \* AMS (Automatic Music Sensor)

#### Note

The AMS function may not operate correctly under the following circumstances:

- When the unrecorded space between songs is less than 4 seconds long.
- When the system is placed near a television.

# Recording to a tape

#### **CD Synchro Recording/Recording Manually**

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

Steps	Recording from a CD (CD Synchro Recording)	Recording from a CD/tape/radio manually	
1	Load a recordable tape into deck B.		
2	Press CD.	Press CD, TAPE A/B or TUNER/BAND.	
3	Load the CD you want to record.	Load the CD or tape (or other music source), or tu ne in the station you want to record.	
4	Press CD SYNC.	Press REC PAUSE/START.	
4	Deck B stands by for recording. "REC" flashes.		
5	Press REC PAUSE/START. Recording start s.	Press REC PAUSE/START, and then start playing t he desired source to record.	

# To stop recording

Press x.

Tip

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

#### Note

You cannot listen to other sources while recording.

# Timer-recording radio programs

You can record a preset radio station from a specified time. To timer-record, you must first preset the radio station (see "Presetting radio stations" on page 13) and set the clock (see "Setting the clock" on page 10)

- 1. Tune in the preset radio station (see "Listening to the radio" on page 15).
- 2. Press CLOCK/TIMER SET on the remote. "DAILY SET" appears.

- 3. **Press** or on the remote repeatedly to select "**REC** SET", then press **ENTER** on the remote. "**ON**" appears and the hour indication flashes in the display.
- 4. Set the time to start recording. Press or on the remote repeatedly to set the hour, then press **ENTER** on the remote. The minute indication starts flashing. Press or on the remote repeatedly to set the minute, then press **ENTER** on the remote.
- 5. Repeat step 4 to set the time to stop recording.

The start time appears, followed by the stop time, the preset radio station to be recorded (e.g., "TUNER FM 5"), then the original display appears.

- 6. Load a recordable tape into deck B.
- 7. Press 1/1 to turn off the system. When the recording starts, the volume level is set to minimum.

То	Check the setting
Check the setting	Press CLOCK/TIMER SELECT on the remote and pre ss or on the remote repeatedly to select "REC SELECT", then press ENTER on the remote.
Check the setting	Start over from step 1.
Check the setting	Press CLOCK/TIMER SELECT on the remote and pre ss or on the remote repeatedly to select "TIMER OFF", then press ENTER on the remote.

#### **Notes**

- If the system is on at the preset time, the recording will not be made.
- When you use the Sleep Timer, Timer-recording and Daily Timer will not turn on the system until the Sleep Timer turns it off.
- You cannot activate the Daily Timer and Timer recording at the same time.

## Using the sub woofer

#### (MHC-GX40 only)

You can use the sound of the sub woofer to suit the sound source.

#### Press ON/OFF on the sub woofer.

The indicator lights up while the sub woofer turns on. Press the button again to turn off the sub woofer.

#### Tip

You can use VOLUME (VOL - or + on the remote) to adjust the volume of the sub woofer linked to the front speakers.

# Adjusting the sound

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

#### Press GROOVE.

"GROOVE" appears in the display and the volume switches to power mode. Press the button again to cancel GROOVE.

#### Selecting the sound effect

Selecting the effect from the music menu.

# Press MUSIC EQ, MOVIE EQ or GAME EQ (or EQ – or + on the remote\*) repeatedly to select the preset you desire.

The preset name appears in the display. See the chart "Sound effect options". \* You can select all of the effects in order.

#### To cancel the effect

Press EFFECT ON/OFF (or ON/OFF on the remote).

## Sound effect options

"SURR" appears if you select an effect with surround effects.

MUSIC EQ		
Effect		
ROCK Standard music sources	Standard music sources	
POP		
MOVIE EQ		
Effect		
MOVIE		Soundtracks and special listening situa tions
GAME EQ		
Effect		
GAME		PlayStation 1, 2 and other video game music sources

#### Selecting the surround effect

Press SURROUND on the remote. "SURR" appears in the display. Press the button again to cancel SURROUND.

# Turning off the display

## **Power Saving Mode**

Even if the system is off, the system consumes power to display the clock and to stay responsive to commands from the remote. Power saving mode reduces the amount of power consumed during standby. In this mode, the clock is not displayed.

# Press DISPLAY repeatedly while the system is off until the demonstration display or the clock display disappears.

To cancel the Pow er Saving Mode Press DISPLAY while the system is off. Each time you press the button, the display switches cyclically as follows: Demonstration display t Clock display\* t No display (Power Saving Mode) \* The clock is displayed only if you set the clock.

#### Tip

The timer continues to operate in Power Saving Mode.

# Using the CD display

Checking the remaining time

## Press DISPLAY repeatedly during play.

Each time you press the button, the display changes cyclically as follows: Elapsed playing time on the current track t Remaining time on the current track t Remaining time on the current CD t Clock display (for eight seconds) t Effect status.

#### Checking the total playing time

**Press DISPLAY repeatedly in stop mode.** Each time you press the button, the display changes cyclically as follows:

**During normal play mode:** Total number of tracks and total playing time t Clock display (for eight seconds) t Effect status

**During Program Play mode w hen there is a program:** The last track number of the program and the total playing time t Total number of programed tracks (for five seconds) t Clock display (for eight seconds) t Effect status.

#### Enhancing video game sound

#### **Game Sync**

You need to connect a video game machine (see "Hooking up video game machine" on page 24).

#### Press GAME.

#### **Tips**

- In the standby mode, the system automatically turns on.
- The GAME EQ is automatically selected.
- These operations cannot be performed in the Power Saving Mode

# Mixing video game sound with other sound source

# **Game Mixing**

- 1. Select the desired source sound.
- 2. Press GAME MIXING

Each time you press the button, the level of the game sound changes cyclically as follows: MIXING LOW t MIXING MID t MIXING HIGH t MIXING OFF

#### **Tips**

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

#### Note

If you start recording while Game Mixing is activated, Game Mixing is canceled. To record the mixed sound, press GAME MIXING after step 4 of "Recording from a CD/tape/radio manually" on page 18, and then press REC PAUSE/START to start the recording.

# Falling asleep to music

#### **Sleep Timer**

You can set the system to turn off after a certain time, so that you can fall asleep to music.

#### Press SLEEP on the remote.

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

AUTO\* t 90 MIN t 80 MIN t 70 MIN t ... t 10 MIN t OF

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

# **Other Operations**

То	Press
Check the remaining time**	SLEEP on the remote once.
Change the time to turn off	SLEEP on the remote repeatedly to select the time yo u want.
Cancel the Sleep Timer function	SLEEP on the remote repeatedly until "SLEEP OFF" a ppears.

<sup>\*</sup> You cannot check the remaining time when you select "AUTO".

# Waking up to music

#### **Daily Timer**

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

- 1. Prepare the music source you want to play.
  - CD: Load a CD. To start from a specific track, make a program (see "Programing CD tracks" on page 12).

- **Tape:** Load a tape with the side you want to play facing forward.
- Radio: Tune in the preset station you want (see "Listening to the radio" on page 15).
- 2. Adjust the volume.
- 3. Press CLOCK/TIMER SET on the remote. "DAILY SET" appears.
- 4. Press ENTER on the remote.

"ON" appears and the hour indication flashes.

5. Set the time to start playing.

Press or on the remote repeatedly to set the hour, then press ENTER on the remote. The minute indication flashes. Press or on the remote repeatedly to set the minute, then press ENTER on the remote.

- 6. Repeat step 5 to set the time to stop playing.
- 7. Press or on the remote repeatedly until the music source you want appears.

The indication changes as follow.



8. Press ENTER on the remote.

The type of timer ("DAILY"), followed by the start time, stop time, and the music source appear, then the original display appears.

9. Press 1/1 to turn off the system.

#### **Other Operations**

То	Do this
Check the setting	Press CLOCK/TIMER SELECT on the remote and pre ss on the remote repeatedly to s elect "DAILY", then press ENTER on the remote.
Change the setting	Start over from step 1
Cancel the timer	Press CLOCK/TIMER SELECT on the remote and pre ss on the remote repeatedly to sel ect "TIMER OFF", then press ENTER on the remote.

#### Tip

The system turns on 15 seconds before the preset time.

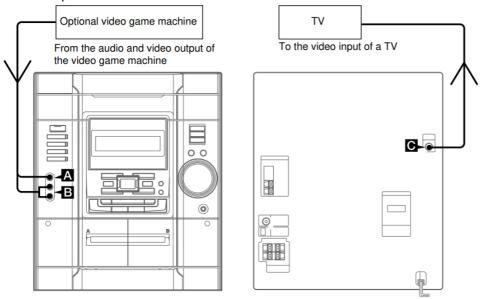
#### **Notes**

- When you use the Sleep Timer, the Daily Timer will not turn on the system until the Sleep Timer turns it off.
- You cannot activate the Daily Timer and Timerrecording at the same time.

• If the system is on at the preset time, you cannot activate the Daily Timer.

# Hooking up video game machine

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



# **VIDEO INPUT jack**

Use a video cable (not supplied) to connect the video output of the optional video game machine to this jack.

#### **AUDIO INPUT jacks**

Use audio cords (not supplied) to connect the audio output of the optional video game machine to these jacks. You can then output audio through this system.

#### **VIDEO OUT jack**

Use a video cable (not supplied) to connect the video input of TV to this jack.

#### **Notes**

- The video game machine image may appear on the TV screen even if the system is turned off.
- See "Selecting the sound effect" on page 20 for video game sound effects.
- If you press GAME while the system is off, the system turns on, the function switches to GAME, and the equalizer also switches to the GAME EQ.
- If you press GAME while the system is on, the function switches to GAME and the equalizer automatically switches to the GAME EQ in the same manner.

# **Troubleshooting**

#### **Problems and remedies**

If you have any problem using this system, use the following check list. First, check that the power cord is connected firmly and the speakers are connected correctly and firmly. Should any problem persist, consult your nearest Sony dealer.

#### General

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

(see step 5 of "Hooking up the system" on page 8).

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

# " lights in the display

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

The clock setting/radio presetting/timer is canceled.

• The power cord is disconnected or a power failure occurs longer than half a day. Redo the following: —

"Setting the clock" on page 10 — "Presetting radio stations" on page 13 If you have set the timer, also redo

"Waking up to music" on page 23 and "Timer-recording radio programs" on page 19.

#### There is no sound.

- Turn VOLUME clockwise.
- · The headphones are connected.
- Insert only the stripped portion of the speaker cord into the SPEAKER jack. Inserting the vinyl portion of the speaker cord will obstruct the speaker connections.
- · There is no audio output during timer recording

#### There is severe hum or noise

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

#### The timer does not function.

Set the clock correctly.

# "DAILY" and "REC" do not appear when you press CLOCK/TIMER SET

- · Set the timer correctly.
- · Set the clock

#### The remote does not function.

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

#### There is acoustic feedback.

· Reduce the volume

# The color irregularity on a TV screen persists.

• Turn off the TV set once, then turn it on after 15 to 30 minutes. If the color irregularity still persists, place the speakers farther away from the TV set.

# **Speakers**

Sound comes from one channel or unbalanced left and right volume

• Check the speaker connection and speaker placement.

#### Sound lacks bass.

• Check that the speaker's + and – jacks are connected correctly.

#### Problems and remedies (continued)

#### **CD Player**

# The CD tray does not close

The CD is not placed properly

#### The CD will not play

- The CD is not lying flat in the disc tray.
- The CD is dirty.
- The CD is loaded label side down.
- There is moisture on the CD.

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

• The player is in program or shuffle mode. Press PLAY MODE repeatedly until "PGM" or "SHUF" disappears.

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

Contact your Sony dealer or local authorized Sony service facility.

#### **Tape Deck**

# The tape does not record

- No tape in the cassette holder.
- The tab has been removed from the cassette (see "To save a tape permanently" on page 27).
- · The tape has reeled to the end

The tape does not record nor play or there is a decrease in sound level.

- The heads are dirty (see "Cleaning the tape heads" on page 28).
- The record/playback heads are magnetized (see "Demagnetizing the tape heads" on page 28)

#### The tape does not erase completely.

• The record/playback heads are magnetized (see "Demagnetizing the tape heads" on page 28).

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

• The capstans or pinch rollers are dirty (see "Cleaning the tape heads" on page 28).

# Noise increases or the high frequencies are erased.

• The record/playback heads are magnetized (see "Demagnetizing the tape heads" on page 28).

#### Tuner

## There is severe hum or noise ("TUNED" or "STEREO" flashes in the display).

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

#### A stereo FM program cannot be received in stereo.

Press STEREO/MONO on the remote repeatedly until "MONO" disappears.

# If other troubles not described above occur, reset the system as follow s:

- 1. Unplug the power cord.
- 2. Plug the power cord back in.
- 3. Press , GROOVE, and ?/1 at the same time.
- 4. Press 1/1 to turn on the system. The system is reset to the factory settings. All the settings you made are cleared.

#### Messages

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

#### **NO DISC**

There is no CD on the disc tray

# **OVER**

· You have reached the end of the CD.

"PROTECT" and "PUSH POWER" appear alternately.

• A strong signal was input. Press to turn off the system, leave the system turned off for a while, then press again to turn on the system. If "PROTECT" and "PUSH POWER" appear alternately even after the system is turned on again, press to turn off the system and check the speaker cord.

#### **Additional Information**

#### **Precautions**

### On operating voltage

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

#### On safety

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

# On placement

- Do not place the system in an inclined position.
- Do not place the system in locations where it is
  - · Extremely hot or cold
  - Dusty or dirty
  - Very humid
  - Subject to vibrations
  - Subject to direct sunlight.

## On heat build up

- Although the system heats up during operation, this is not a malfunction.
- Place the system in a location with adequate ventilation to prevent heat build up in the system.
- If you continuously use this system at a large volume, the cabinet temperature of the top, side and bottom rises considerably. To avoid burning yourself, do not touch the cabinet.
- To prevent a malfunction, do not cover the ventilation hole for the cooling fan.

# On operation

• If the system is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may

condense on the lens inside the CD player. Should this occur, the system will not operate properly. Remove the CD and leave the system turned on for about an hour until the moisture evaporates.

• When you move the system, take out any discs.

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

#### **Notes on CDs**

- Before playing, clean the CD with a cleaning cloth. Wipe the CD from the center out.
- · Do not use solvents.
- Do not expose the CD to direct sunlight or heat sources

### Note on CD-R/CD-RW playback

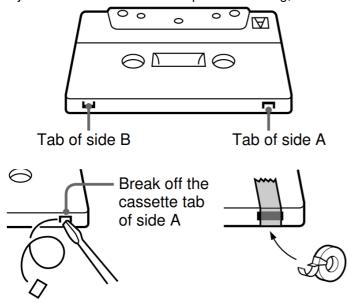
Discs recorded on CD-R/CD-RW drives may not be played back because of scratches, dirt, recording condition or the drive's characteristics. Besides, the discs, which are not yet finalized at the end of recording, cannot be played back.

#### Cleaning the cabinet

Use a soft cloth slightly moistened with mild detergent solution.

#### To save a tape permanently

To prevent a tape from being accidentally recorded over, break off the cassette tab from side A or B as illustrated. If you later want to reuse the tape for recording, cover the broken tab with adhesive tape.



# Before placing a cassette in the tape

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

## When using a tape longer than 90 minutes

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

# Cleaning the tape heads

Clean the tape heads after every 10 hours of use. Be sure to clean the tape heads before you start an important recording or after playing an old tape. Use a separately sold dry-type or wet-type cleaning cassette. For details, refer to the instructions of the cleaning cassette.

# Demagnetizing the tape heads

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

# **Specifications**

### AUDIO POWER SPECIFICATIONS: (MHC-GX40/GX20 USA model only)

#### POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

with 6 ohms loads both channels driven, from 120 – 10,000 Hz; rates 60 watts per channel minimum RMS power, with no more than 10% total harmonic distortion from 250 milliwatts to rated output. Total harmonic distortion less than 0.07%

(6 ohms at 1 kHz, 30 W

**Amplifier section** 

North American models: MHC-GX40

Front speaker

Continuous RMS power output (reference): 60 + 60 watts (6 ohms at 1 kHz, 10% THD)

Total harmonic distortion less than 0.07%: (6 ohms at 1 kHz, 30 W)

Sub woofer

Continuous RMS power output (reference: 120 watts (12 ohms at 40 Hz, 10%) THD

**Total harmonic distortion less than 0.07%:** (12 ohms at 40 Hz, 60 W)

MHC-GX30

Continuous RMS power output (reference): 75 + 75 watts (6 ohms at 1 kHz, 10% THD)

Total harmonic distortion less than 0.07%: (6 ohms at 1 kHz, 40 W)

MHC-GX20

Continuous RMS power output (reference: 60 + 60 watts (6 ohms at 1 kHz, 10% TH

Total harmonic distortion less than 0.07%: (6 ohms at 1 kHz, 30 W)

**European models:** 

MHC-RG33

**DIN power output (rated) 60 + 60 watts:** (6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference): 75 + 75 watts (6 ohms at 1 kHz, 10% THDMusic power output

(reference): 150 + 150 watts (6 ohms at 1 kHz, 10% THD)

MHC-RG22

**DIN power output** (rabted) **50** + 5b0 **watts:** (6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference): 60 + 60 watts (6 ohms at 1 kHz, 10% THD)

Music power output (reference): 120 + 120 watts (6 ohms at 1 kHz, 10% THD)

Other models:

MHC-RG33

The following measured at AC: 120, 220, 240 V, 50/60 Hz DIN power output (rated) 60 + 60 watts: (6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference): 75 + 75 watts (6 ohms at 1 kHz, 10% THD)

MHC-RG22

The following measured at AC: 120, 127, 220, 240 V 50/60 Hz DIN power output (rated) 50 + 50 watts: (6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference): 60 + 60 watts (6 ohms at 1 kHz, 10% THD)

Inputs

AUDIO INPUT (phono jack): voltage 450 mV, impedance 47 kilohms

**Outputs** 

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

Front speaker: accepts impedance of 6 to 16 ohms

Sub woofer speaker (MHC-GX40 only): accepts impedance of 12 to 16 ohm

### **CD** player section

System Compact disc and digital: audio system

**Laser Semiconductor laser:** (λ=780 nm)

**Emission duration:** continuous

Frequency response:  $2 \text{ Hz} - 20 \text{ kHz} (\pm 0.5 \text{ dB})$ 

Wavelength: 780 - 790 nm

**Signal-to-noise ratio:** More than 90 dB **Dynamic range:** More than 90 dB

#### Tape deck section

Recording system: 4-track 2-channel stereo Frequency response 50 - 13,000 Hz (±3 dB), using Sony TYPE I

cassette

Wow and flutter: ±0.15% W.Peak (IEC) 0.1% W.RMS (NAB) ±0.2% W.Peak (DIN)

#### **Tuner section**

FM stereo, FM/AM superheterodyne tuner

**FM** tuner section

**Tuning range:** 87.5 – 108.0 MHz **Antenna:** FM lead antenna

**Antenna:** terminals 75 ohms unbalanced **Intermediate frequency:** 10.7 MHz

#### **AM** tuner section

# **Tuning range**

Pan-American models: 530 – 1,710 kHz (with the interval set at 10 kHz) 531 – 1,710 kHz (with the interval set at

9 kHz)

European and Middle Eastern models: 531 – 1,602 kHz (with the interval set at 9 kHz) Other models: 530 –

1,710 kHz (with the interval set at 10 kHz) 531 – 1,602 kHz (with the interval set at 9 kHz)

Antenna: AM loop antenna

Antenna terminals: External antenna terminal

Intermediate frequency: 450 kHz

# Speaker

North American model:

Front speaker SS-RG55 for MHC-GX40

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

**Woofer:** 13 cm, cone type **Tweeter:** 5 cm, cone type

**Super tweeter:** 2 cm, dome type **Nominal impedance:** 6 ohms

**Dimensions:** (w/h/d) Approx. 200 × 325 × 237 mm

Mass: Approx. 3.6 kg net per speaker

Sub woofer speaker SS-WG99 for MHC-GX40 Speaker system: Passive sub woofer Speaker units

Woofer: 15 cm, cone type Nominal impedance: 12 ohms

**Dimensions:** (w/h/d) Approx.  $210 \times 325 \times 239$  mm

Mass Approx: 4.0 kg

Canadian model:

Front speaker SS-RG66A for MHC-GX30

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

**Sub Woofer:** 13 cm, cone type **Woofer:** 13 cm, cone type

**Tweeter:** 5 cm, cone type Nominal impedance 6 ohms **Dimensions:** (w/h/d) Approx.  $215 \times 356 \times 260$  mm

Mass Approx: 4.2 kg net per speaker

Other models:

Front speaker SS-RG66A for MHC-RG33

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

**Sub Woofer:** 13 cm, cone type **Woofer:** 13 cm, cone type **Tweeter:** 5 cm, cone type **Nominal impedance:** 6 ohms

**Dimensions:** (w/h/d) Approx.  $215 \times 356 \times 260$  mm

Mass Approx: 4.2 kg net per speaker

Front speaker SS-RG55 for MHC-GX20/RG22

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

Woofer: 13 cm, cone type Tweeter: 5 cm, cone type

**Super tweeter:** 2 cm, dome type **Nominal impedance:** 6 ohms

**Dimensions:** (w/h/d) Approx. 200 × 325 × 237 mm

Mass Approx: 3.6 kg net per speaker

#### General

Power requirements

North American models: 120 V AC, 60 Hz European models: 230 V AC, 50/60 Hz Australian model: 230 – 240 V AC,

50/60 Hz Argentine models: 220 V AC, 50/60 Hz

Mexican models: 120 V AC, 60 Hz

**Middle Eastern models:** 120 – 127/220/230 – 240 V AC, 50/60 Hz

Adjustable with voltageselector **Thai model:** 220 V AC, 50/60 Hz

Other models: 120 V, 220 V or 230 – 240 V AC, 50/60 Hz

Adjustable with voltage selector

# Power consumption

· USA models:

MHC-GX40: 140 wattsMHC-GX20: 105 watts

· Canadian models:

MHC-GX40: 140 watts
 MHC-GX30: 125 watts
 MHC-GX20: 105 wat

• European models:

MHC-RG33: 125 watts 0.5 watts (at the power saving mode

• MHC-RG22: 105 watts 0.5 watts (at the Power Saving Mod

Other model

MHC-RG33: 125 wattsMHC-RG22: 105 watts

• Dimensions: (w/h/d) Approx. 280 × 325 × 412 mm Mass

• North American models:

HCD-GX40: Approx. 9.0 kg
HCD-GX30: Approx. 9.0 kg
HCD-GX20: Approx. 8.5 kg

· European models:

HCD-RG33: Approx. 9.0 kg
 HCD-RG22: Approx. 8.5 kg

· Other models:

HCD-RG33: Approx. 9.5 kgHCD-RG22: Approx. 9.0 kg

• Supplied accessories: Remote Commander (1)

Batteries (2)

AM loop antenna (1)

FM lead antenna (1) Front speaker pads (8)

Design and specifications are subject to change without notice.

#### **Costumer Support**

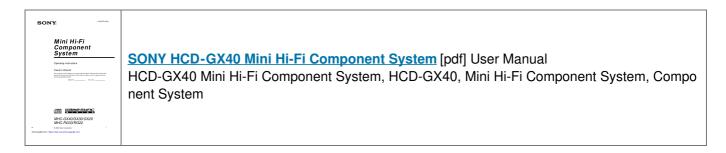
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#### **Documents / Resources**



#### References

- <u>User Manual, users guide, operation instruction</u>
- <u>Suser Manual, users guide, operation instruction</u>

Manuals+,