

Mini Hi-Fi Component System

Operating Instructions



***MHC-RV555/RV55
MHC-RV222/RV22***

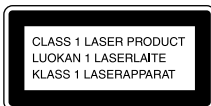
WARNING

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.

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.

ENERGY STAR®



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

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How to use this manual







- 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.
- The following symbols are used in this manual.

Symbol	Meaning
	Functions that can be used with VIDEO CDs
	Functions that can be used with audio CDs
	Functions that can be used with MP3

Playable discs

You can play back the following discs on this system. Other discs cannot be played back.

List of playable discs

Format of discs	Disc logo
VIDEO CDs	
Audio CDs	
CD-R/CD-RW (audio data/MP3 files)	   

Discs that this system cannot play

- CD-ROMs
- CD-Rs/CD-RWs other than those recorded in the following formats:
 - VIDEO CD format
 - music CD format
 - MP3 format that conforms to ISO9660¹⁾ Level 1/Level 2 or Joliet²⁾
- A disc that has a non-standard shape (e.g., card, heart).
- A disc with paper or stickers on it.
- A disc that has the adhesive, cellophane tape, or a sticker still left on it.

1) ISO9660 Format

The most common international standard for the logical format of files and folders on a CD-ROM. There are several specification levels. In Level 1, file names must be in the 8.3 format (no more than eight characters in the name, no more than three characters in the extension “.MP3”) and in capital letters. Folder names can be no longer than eight characters. There can be no more than eight nested folder levels. Level 2 specifications allow file names and folder names up to 31 characters long. Each folder can have up to 8 trees.

For Joliet in the expansion format (file and folder names can have up to 64 characters) make sure of the contents of the writing software, etc.

2) Up to 30 characters can be displayed.

Notes on CD-R and CD-RW

- Some CD-Rs or CD-RWs cannot be played on this system depending upon the recording quality or physical condition of the disc, or the characteristics of the recording device. Furthermore, the disc will not play if it has not been correctly finalized. For more information, see the operating instructions for the recording device.
- CD-R and CD-RW discs recorded in packet write format are not supported.
- Discs recorded on CD-R/CD-RW drives may not be played back because of scratches, dirt, recording condition or the driver's characteristics.
- CD-R and CD-RW discs recorded in multi-session are not supported.
- The system may be unable to play MP3 format files that do not have the ".MP3" extension.
- Attempting to play non-MP3 format files that have the ".MP3" extension may result in noise or malfunction.
- With formats other than ISO9660 level 1 and 2, folder names or file names may not be displayed correctly.
- The following discs take a longer time to start playback.
 - a disc recorded with complicated tree structure.
 - a disc to which data can be added (non-finalized disc).

Note on playback operations of VIDEO CDs

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

Music discs encoded with copyright protection technologies

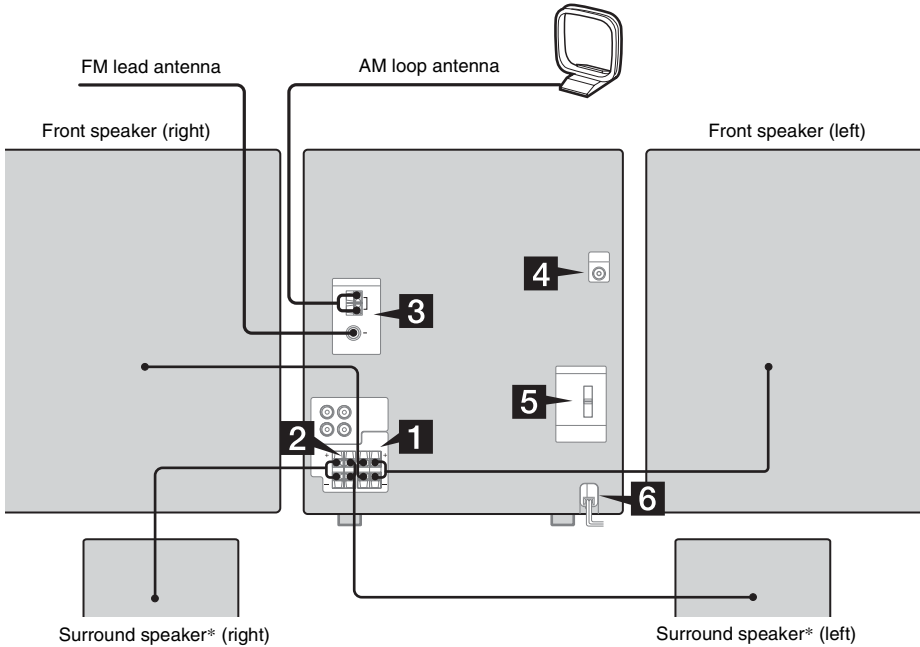
This product is designed to playback discs that conform to the Compact Disc (CD) standard. Recently, various music discs encoded with copyright protection technologies are marketed by some record companies. Please be aware that among those discs, there are some that do not conform to the CD standard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

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.

Hooking up the system

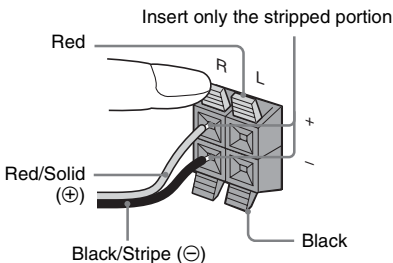
Perform the following procedures **1** to **7** to hook up your system using the supplied cords and accessories. MHC-RV55 is used for illustration purpose.



* MHC-RV555/RV55 only

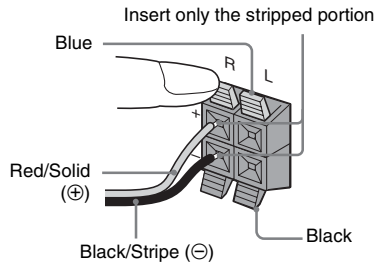
1 Connect the front speakers.

Connect the right and left speaker cords to the SPEAKER (FRONT SPEAKER for MHC-RV555/RV55) terminals as shown below.



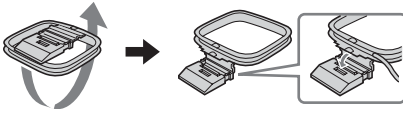
2 Connect the surround speakers. (MHC-RV555/RV55 only)

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

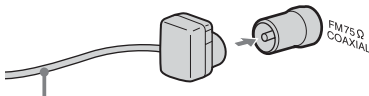


3 Connect the FM and AM antennas.

Set up the AM loop antenna, then connect it.



AM loop antenna

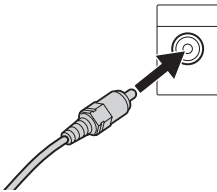


Extend the FM lead antenna horizontally

Note

Keep the antennas away from the speaker cords.

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

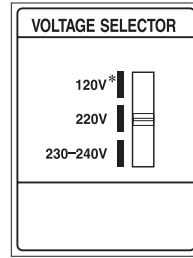


When using a TV

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

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

Refer to the print on your system's VOLTAGE SELECTOR for available settings.



* Saudi Arabian model: 120 – 127 V

6 Connect the power cord to a wall outlet.

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

Note

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

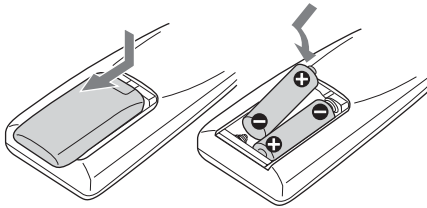
7 Set the color system to PAL or NTSC depending on the color system of your TV while the power is off. Use buttons on the unit for the operation.

The color system of your TV	Do this
AUTO (factory setting)	Press I/⏻ while holding down III . If your TV automatically changes the color system according to the input signal, the system is set to AUTO.
NTSC	Press I/⏻ while holding down ▶▶ . The system is set to NTSC.
PAL	Press I/⏻ while holding down ◀◀ . The system is set to PAL.

Notes

- You cannot set the color system in Power Saving Mode (page 30).
- When you play back a VIDEO CD recorded in a different color system from the one you set to the unit, the picture image may be distorted.

Inserting two R6 (size AA) batteries into the remote



Note

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

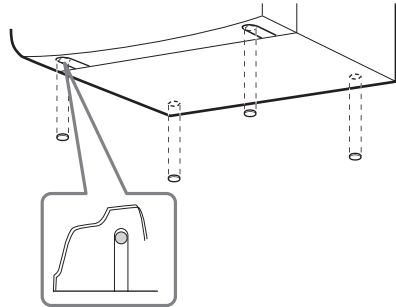
Tip

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.

Attaching the speaker pads

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

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



When carrying this system

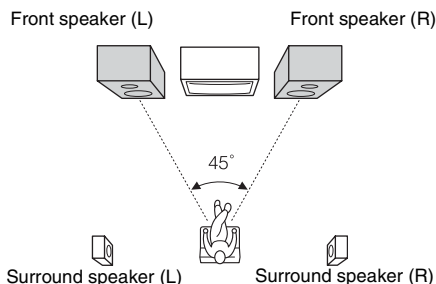
Perform the following procedure to protect the CD mechanism. Use buttons on the unit for the operation.

- 1** Make sure that all discs are removed from the system.
- 2** Hold down CD and then press I/⏻ until "STANDBY" appears.
After a few seconds later, "STANDBY" disappears and "LOCK" appears.
- 3** Unplug the power cord.

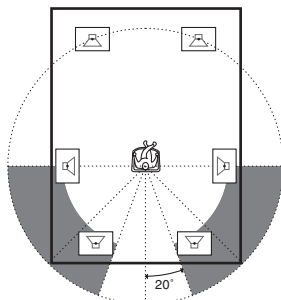
Positioning the speakers

(MHC-RV555/RV55 only)

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



- 2 Place the surround speakers.



Position the surround speakers within the respective gray ranges.

Positioning both surround speakers the same distance from the listening position is effective.

Setting the clock

Use buttons on the remote for the operation.

- 1 Press I/⏻ to turn on the system.
- 2 Press CLOCK/TIMER SET.
- 3 Press ◀◀ or ▶▶ repeatedly to set the hour.
- 4 Press ENTER.
- 5 Press ◀◀ or ▶▶ repeatedly to set the minute.
- 6 Press ENTER.

The clock starts working.

To adjust the clock

- 1 Press CLOCK/TIMER SET.
- 2 Press ◀◀ or ▶▶ repeatedly to select "CLOCK SET", then press ENTER.
- 3 Do the same procedures as step 3 to 6 above.

Notes

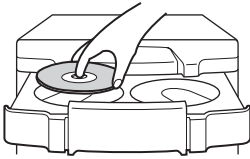
- The clock settings are canceled when you disconnect the power cord or if a power failure occurs.
- You cannot set the clock in Power Saving Mode (page 30).

VIDEO CD/CD/MP3 – Play

Loading a disc

Use buttons on the unit for the operation.

- 1 Press **▲**.
- 2 Place a disc with the label side up on the disc tray.



To insert additional discs, press DISC SKIP/EX-CHANGE to rotate the disc tray.

- 3 Press **▲** again to close the disc tray.

Notes

- Do not use a disc with tape, seals or paste on it as this may cause malfunction.
- Do not forcibly press the disc tray closed with your finger, as this may cause malfunction.

Playing a disc

— Normal Play/Shuffle Play

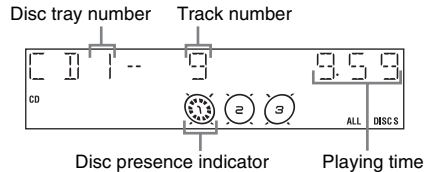


This system lets you play VIDEO CDs*, audio CDs and discs with MP3 audio tracks.

Before playing a VIDEO CD, turn on your TV and select the video input. Refer to the operating instructions supplied with your TV if you need help.

* You can play both VIDEO CDs without PBC functions (Ver. 1.1) and VIDEO CDs with PBC functions (Ver. 2.0).

Example: When a disc is loaded



- 1 Press **CD** (or **FUNCTION** repeatedly) to switch the function to CD.

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

Select	To play
ALL DISCS* (Normal Play)	All discs in the disc tray continuously.
1DISC (Normal Play)	The tracks on the disc you have selected in original order.
ALBM (Normal Play)	All MP3 audio tracks in the album on the disc you have selected in original order. When playing a non-MP3 disc, Album Play performs the same operation as 1DISC Play.
ALL DISCS SHUF (Shuffle Play)	The tracks on all discs in random order.
1DISC SHUF (Shuffle Play)	The tracks on the disc you have selected in random order.
ALBM SHUF (Shuffle Play)	The MP3 audio tracks in the album on the disc you have selected in random order. When playing a non-MP3 disc, Album Shuffle Play performs the same operation as 1DISC SHUF Play.
PGM (Program Play)	The tracks on the disc in the order you want them to be played (see "Creating your own program" on page 15).

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

3 Press ►.

Other operations

To	Do this
Stop play	Press ■.
Pause	Press ■ ¹⁾ . Press again to resume play.
Select a track ²⁾	Press ◀◀ or ▶▶ repeatedly (or turn ◀◀ ▶▶ on the unit).
Select an album of MP3	Press ALBUM + or – repeatedly after step 2.
Find a point in a track ³⁾ (Lock Search Function)	Press ◀◀ or ▶▶ during playback. At the desired point, press ▶ to stop searching and start playback. For VIDEO CDs only, each time you press the button, speed changes cyclically as follows: 1 (slower than 2) → 2 (normal) → 3 (faster than 2)
Select a disc in stop mode	Press DISC SKIP (or DISC 1 – 3 or DISC SKIP/EX-CHANGE on the unit).
Switch to CD function from other function	Press DISC 1 – 3 on the unit (Automatic Source Selection).
Exchange other discs while playing	Press DISC SKIP/EX-CHANGE on the unit.
Remove a disc	Press ▲ on the unit.

1) For VIDEO CDs, there are may be some disturbance in the video image.

2) Only when setting the PBC function to off or when playing VIDEO CDs without PBC functions (Ver. 1.1).

3) For discs with MP3 audio tracks, you cannot search between multiple tracks.
Also, the time may not be displayed correctly for some tracks.

Notes

- You cannot change the play mode during playback.
- Some time may be needed to start playback of discs recorded in complex configurations such as many layers.
- When the disc is inserted, the player reads all the tracks on that disc. If there are many albums or non-MP3 audio tracks on the disc, it may take a long time for play to begin or for the next MP3 audio track to start play.
- Do not save unnecessary albums or tracks other than MP3 ones in the disc to be used for MP3 listening. We recommend that you do not save other types of tracks or unnecessary albums on a disc that has MP3 audio tracks.
- An album that does not include an MP3 audio track is skipped.
- Maximum album number: 256 (including root folder)
- Up to 512 tracks and albums of MP3 on a single disc can be recognized on this unit.
- MP3 audio tracks are played back in the order that they are recorded on the disc.
- Depending on the encoding/writing software, recording device, or the recording media used at the time an MP3 audio track is recorded, you may encounter such problems as disabled playback, sound interruptions, and noise.

Tip

When disc access takes a long time, set “CD POWER ON” by CD power manage function (page 19).

To play a track by entering the track number

You can also select the track you want using the remote during Normal Play.

Press the number button(s).**To enter a track number over 10**

- 1 Press >10.
- 2 Enter the corresponding digits for the same number of “-” flashing in the display.
To enter 0, press 10/0.

Example:

To enter track number 30, press >10, then press 3 and 10/0.

Resuming playback from the point you stopped the disc**— Resume Play**

This system memorizes the point where you stopped the VIDEO CD so you can resume from that point.

Resume Play is not available for an audio CD and a disc with MP3 audio tracks.

1 While playing a VIDEO CD, press ■ to stop playback.

“RESUME” appears on your TV screen. If “RESUME” does not appear, Resume Play is not available.

2 Press ►.

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

Notes

- You cannot perform Resume Play during Disc Digest, Shuffle Play or Program Play.
- Depending on where you stopped the VIDEO CD, the system may resume playback from a different point.
- Resume play is canceled when:
 - you press the number buttons, PLAY MODE, ■, DISC SKIP (DISC SKIP/EX-CHANGE on the unit) or ◀◀/▶▶.
 - you disconnect the power cord.
 - you turn off the system.
 - you open the disc tray.
 - you change the function to tuner when “CD POWER OFF” is selected (page 19).

Tip

To view from the beginning of the VIDEO CD, press ■ in stop mode, then press ►.

Playing VIDEO CDs with PBC functions (Ver. 2.0)

— PBC Play



You can use PBC* menus on your TV screen to enjoy the disc's interactive software. The menu format and structure may differ depending on each disc.

* PBC: Playback Control

- 1 Press CD (or FUNCTION repeatedly) to switch the function to CD.**
- 2 Press ► to start playing a VIDEO CD with PBC functions (Ver. 2.0).**
The PBC menu appears on the TV screen.
- 3 Press the number button(s) to enter the item number you want.**
- 4 Continue playback according to the instructions on the menus to enjoy interactive playback.**

Refer to the operating instructions supplied with the disc, as the operating procedure may differ according to the VIDEO CD.

Other operations

To	Do this
Stop play	Press ■.
Go to the next menu page or scene	Press NEXT.
Go back to the previous menu page or scene	Press PREV.
Go back to the previous menu	Press RETURN ↵.
Select a menu	See "To play a track by entering the track number" (page 13).

To cancel playback with PBC functions (Ver. 2.0)

- 1** In stop mode, press ◀◀ or ▶▶ to select a track.
- 2** Press ►.

The "PBC OFF" indicator lights up and playback starts from the selected track. Still images, such as the menu screens, will not be shown.

To return to PBC playback, press ■ in stop mode, then press ►.

Tips

- When "⏏" appears on the TV screen, you have pressed an invalid button.
- When you press NEXT during menu playback or while playing moving pictures, the next scene on the disc appears. Also refer to the instructions supplied with the disc.
- You can cancel playback with PBC functions (Ver. 2.0) by pressing any number button in stop mode. The disc is automatically played in Normal Play mode.

Playing repeatedly

— Repeat Play



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

Press REPEAT until “REP” or “REP1” appears.

REP: For all the tracks on the disc(s) up to five times.

REP1: For a single track only.

To cancel Repeat Play

Press REPEAT repeatedly until both “REP” and “REP1” disappear.

Notes

- You cannot select “REP” and “ALL DISCS SHUF” at the same time.
- When you select “REP1”, that track is repeated endlessly until “REP1” is canceled.
- You cannot select “REP1” during playback of VIDEO CDs with PBC functions (Ver. 2.0).

Creating your own program

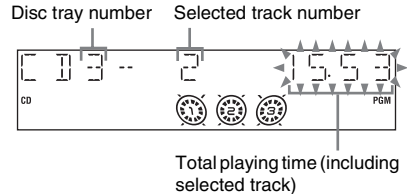
— Program Play



You can make a program of up to 25 steps from all the discs in the order you want to play them. You can synchro record the programmed tracks onto a cassette tape (page 22).

- Press CD (or FUNCTION repeatedly) to switch the function to CD.**
- Press PLAY MODE repeatedly in stop mode until “PGM” appears.**
- Press DISC SKIP (or DISC 1 – 3 or DISC SKIP/EX-CHANGE on the unit) to select a disc.**
- Press ◀◀ or ▶▶ repeatedly (or turn ◀◀ ▶▶ on the unit) until the desired track number appears.**

When programming the MP3 audio tracks, press ALBUM + or – to select album, then press ◀◀ or ▶▶ repeatedly (or turn ◀◀ ▶▶ on the unit) until the desired track number appears.



- Press ENTER.**

The track is programmed.

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

6 Program additional tracks.

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

7 Press ►.

Program Play starts.

Other operations

To	Do this
Cancel Program Play	Press PLAY MODE repeatedly in stop mode until "PGM" disappears.
Clear a track from the end	Press CLEAR in stop mode.

Tips

- The program you made remains after Program Play finishes. To play the same program again, press CD (or FUNCTION repeatedly) to switch the function to CD, then press ►. However, the program is cleared when you open the disc tray.
- "----" appears when the total VIDEO CD/CD program time exceeds 100 minutes, or when you select a VIDEO CD/CD track whose number is 21 or over, or when you select an MP3 audio track.

Locating a specific part of a VIDEO CD

— Time Search/Disc Digest



The TV screen must be ON to use these functions.

Locating by elapsed time from the beginning of the disc

— Time Search

- 1** Press SPECIAL MENU in stop mode.
- 2** Press 1 to select "1) TIME SEARCH".
- 3** Press the number buttons to enter the time (in minutes) for the section you want.

To enter 10 minutes: Press 1 and 10/0.

The selected elapsed time appears on the TV screen.

To reenter the time: Press CLEAR and then press the number buttons again.

- 4** Press ►.

Playback starts from the selected time.

Note

Time Search function is only available for MPEG motion picture data.

Locating the desired track

— *Disc Digest*

You can select the track you want by viewing the first frame of each track. 9 different tracks can be displayed on the TV screen at one time.

1 Press **SPECIAL MENU** in stop mode.

2 Press **2** to select “**2) DISC DIGEST**”.

The first frame of tracks 1 through 9 on the current disc are displayed.

3 Press the number buttons (1 – 9) to select the track you want.

To display the next 9 tracks

Press **▶▶1**. The first frame of tracks 10 through 18 are displayed.

When there are more tracks in the disc, “**▶▶1**” appears in the upper right corner of the TV screen.

To display previous tracks, press **1◀◀**.

Note

If you press **SPECIAL MENU** to activate Time Search or Disc Digest in Program or Shuffle Play mode, it changes to Normal Play mode.

Tuner

Presetting radio stations

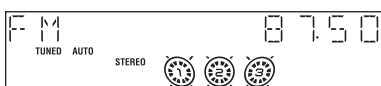
You can preset up to 20 FM stations and 10 AM stations. You can then tune in any of those stations simply by selecting the corresponding preset number.

Automatic tuning preset

You can automatically tune in all of the stations that can be received in your area and then store the radio frequency of the desired stations.

- 1 Press **TUNER BAND** (or **FUNCTION** repeatedly) to switch the function to tuner.
- 2 Press **TUNER BAND** repeatedly to select “FM” or “AM”.
- 3 Press **TUNING MODE** repeatedly until “AUTO” appears in the display.
- 4 Press **+ or –** (or **TUNING + or –** on the unit).

The frequency changes as the system scans for a station. Scanning stops automatically when a station is tuned in. At that time, “TUNED” and “STEREO” (for an FM stereo program) appear.



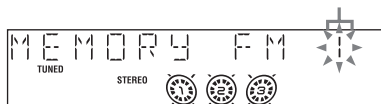
If “TUNED” does not appear and the scanning does not stop

Set the frequency of the desired radio station as described in steps 3 through 8 of “Manual tuning preset” (page 18).

- 5 Press **TUNER MEMORY**.

A preset number appears.

Preset number



- 6 Press **+ or –** (or **TUNING + or –** on the unit) repeatedly to select the desired preset number.
- 7 Press **ENTER**.
- 8 Repeat steps 2 through 7 to store other stations.

Manual tuning preset

You can manually tune in and store the radio frequency of the desired stations.

- 1 Press **TUNER BAND** (or **FUNCTION** repeatedly) to switch the function to tuner.
- 2 Press **TUNER BAND** repeatedly to select “FM” or “AM”.
- 3 Press **TUNING MODE** repeatedly until “AUTO” and “PRESET” disappear from the display.
- 4 Press **+ or –** (or **TUNING + or –** on the unit) repeatedly to tune in the desired station.
- 5 Press **TUNER MEMORY**.
A preset number appears.
- 6 Press **+ or –** (or **TUNING + or –** on the unit) repeatedly to select the desired preset number.
- 7 Press **ENTER**.
- 8 Repeat steps 2 through 7 to store other stations.

Other operations

To	Do this
Tune in a station with a weak signal	Follow the procedure described in “Manual tuning preset” (page 18).
Set another station to the existing preset number	Start over from step 2. After step 5, press + or – (or TUNING + or – on the unit) repeatedly to select the preset number you want to store the other station.

To improve tuner reception

When tuner reception is poor, set CD player power off by CD power manage function. Use buttons on the unit for the operation.

- 1 Press CD.
- 2 Press I/⏻ to turn off the system.
- 3 Press I/⏻ while holding ■. “CD POWER OFF” appears.

To set CD power on

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

Notes

- When “CD POWER OFF” is selected, disc access time is increased.
- You cannot change the setting in Power Saving Mode (page 30).

To change the AM tuning interval (except for Saudi Arabian model)

The AM tuning interval is factory-preset to 9 kHz (or 10 kHz for some areas). To change the AM tuning interval, tune in any AM station first, then turn off the system. While holding TUNING MODE on the unit, press I/⏻ on the unit. When you change the interval, all the AM preset stations are erased. To reset the interval, repeat the same procedure.

Note

You cannot change the AM tuning interval in Power Saving Mode (page 30).

Tips

- The preset stations are retained for about a day even if you disconnect the power cord or if a power failure occurs.
- To improve broadcast reception, adjust the supplied antennas, or connect a commercially available external antenna.

Listening to the radio

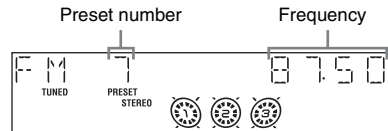
You can listen to a radio station either by selecting a preset station, or by manually tuning in the station.

Listening to a preset station

— Preset Tuning

Preset radio stations in the tuner’s memory first (see “Presetting radio stations” on page 18).

- 1 Press TUNER BAND (or FUNCTION repeatedly) to switch the function to tuner.
- 2 Press TUNER BAND repeatedly to select “FM” or “AM”.
- 3 Press TUNING MODE repeatedly until “PRESET” appears in the display.
- 4 Press + or – (or TUNING + or – on the unit) repeatedly to select the desired preset station.



Listening to non-preset radio station

— Manual Tuning

- 1** Press TUNER BAND (or FUNCTION repeatedly) to switch the function to tuner.
- 2** Press TUNER BAND repeatedly to select “FM” or “AM”.
- 3** Press TUNING MODE repeatedly until “AUTO” and “PRESET” disappear from the display.
- 4** Press + or – (or TUNING + or – on the unit) repeatedly to tune in the desired station.

Note

When switching to CD function from tuner, a longer time may be required to access the disc. In this case, set “CD POWER ON” by CD power manage function (page 19).

Tips

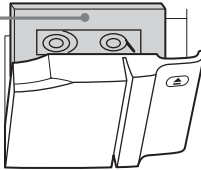
- To improve broadcast reception, adjust the supplied antennas, or connect a commercially available external antenna.
- When an FM stereo program has static noise, press FM MODE repeatedly until “MONO” appears. There will be no stereo effect, but the reception will improve.
- Press TUNING MODE repeatedly until “AUTO” appears in step 3 above, then press + or – (or TUNING + or – on the unit). The frequency indication changes and scanning stops when the system tunes in a station (Automatic Tuning).
- To record the radio programs, use manual recording (page 23).

Loading a tape

Use buttons on the unit for the operation.

- 1** Press **TAPE A/B** repeatedly to select deck A or B.
- 2** Press **PUSH ▲**.
- 3** Load a recorded/recordable tape in deck A or B with the side you want to play/record facing forward.

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



Playing a tape

You can use TYPE I (normal) tape.

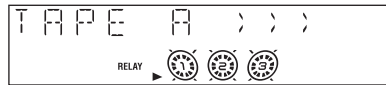
For MHC-RV555/RV55

- 1** Load a tape.
- 2** Press **PLAY MODE** repeatedly to select “” to play one side. Select “”¹⁾ to play both sides.

To play both decks in succession, press **PLAY MODE** repeatedly until “RELAY” (Relay Play)²⁾ appears in the display.

- 3** Press **▶** (or **◀▶** on the unit).

The tape starts playing. Press the button again to play the reverse side.



- ¹⁾ The tape deck stops automatically after repeating the sequence five times.
- ²⁾ Relay Play always follows this cyclic sequence up to five times, then stops:
Deck A (front side) → Deck A (reverse side) → Deck B (front side) → Deck B (reverse side)

For MHC-RV222/RV22

- 1** Load a tape.
To play both decks in succession, press **PLAY MODE** repeatedly until “RELAY” (Relay Play)* appears in the display.

- 2** Press **▶**.

The tape starts playing.

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

Other operations

To	Do this
Stop play	Press ■.
Pause	Press ■■. Press again to resume play.
Fast-forward or rewind	Press ◀◀ or ▶▶.
Remove a tape	Press PUSH ▲ on the unit.

Searching for the beginning of the current or the next track (AMS)¹⁾

To go forward

Press ▶▶ (or turn ◀◀ ▶▶) on the unit clockwise) during forward playback. “TAPE A (or TAPE B) >>> +1” appears. Press ◀◀ (or turn ◀◀ ▶▶) on the unit counterclockwise) during reverse playback.²⁾ “TAPE A (or TAPE B) <<< +1” appears.

To go back

Press ◀◀ (or turn ◀◀ ▶▶) on the unit counterclockwise) during forward playback. “TAPE A (or TAPE B) <<< -1” appears. Press ▶▶ (or turn ◀◀ ▶▶) on the unit clockwise) during reverse playback.²⁾ “TAPE A (or TAPE B) >>> -1” appears.

¹⁾ AMS (Automatic Music Sensor)

²⁾ MHC-RV555/RV55 only

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.

Tip

When a tape is inserted, corresponding forward (▶)/reverse (◀) indicators light. The reverse indicator lights up only for MHC-RV555/RV55.

Tape – Recording

Recording your favorite CD tracks on a tape

— CD-TAPE Synchro Recording

You can record a whole CD on a tape. You can use TYPE I (normal) tape. The recording level is adjusted automatically. Use buttons on the unit for the operation.

- 1 Load a recordable tape into deck B, then press TAPE A/B repeatedly to select deck B.**
- 2 (MHC-RV555/RV55 only) Press PLAY MODE repeatedly to select “◄” to record on one side. Select “↔” (or RELAY) to record on both sides.**

When you want to record from the reverse side, press ◀▶ twice or until the TAPE B reverse side indicator lights up. Then press ■.

- 3 Press CD and load a disc you want to record.**

If you have already loaded the disc, press DISC SKIP/EX-CHANGE to select the disc.

When you want to record an album from an MP3 disc, be sure to press PLAY MODE repeatedly to select ALBUM, then press ALBUM + or – to select the desired album before proceeding.

- 4 Press CD SYNC.**

Deck B stands by for recording. “REC” flashes.

- 5 Press REC PAUSE/START.**

Recording starts.

To stop recording

Press ■.

To record a disc by specifying track order

You can record only your favorite CD tracks using Program Play. Between steps 3 and 4, perform steps 2 to 6 of “Creating your own program” (page 15).

Tips

- When setting the PBC function to on, change the setting to off and then start recording.
- For MHC-RV555/RV55, if you select both sides recording and the tape reaches the end of the front side part-way through a track, the entire track is recorded again from the beginning of the reverse side.

Recording on a tape manually

— Manual Recording

You can record just the portions you like from a CD, tape or radio program on a tape.

You can also record from connected components (see “Hooking up optional components” on page 34).

Use buttons on the unit for the operation.

1 Load a recordable tape into deck B, then press TAPE A/B repeatedly to select deck B.

2 (MHC-RV555/RV55 only)
Press **PLAY MODE** repeatedly to select “←→” to record on one side. Select “↔” (or **RELAY**) to record on both sides.

When you want to record from the reverse side, press ◀▶ twice or until the TAPE B reverse side indicator lights up. Then press ■.

3 Press one of the following buttons to select the desired source to record.

- **CD:** To record from this system’s CD player.
- **TAPE A/B:** To record from this system’s tape deck A.
- **TUNER/BAND:** To record from this system’s tuner.
- **GAME:** To record from the connected video game machine to GAME INPUT AUDIO L/R jacks.
- **VIDEO/SAT*:** To record from the optional component connected to VIDEO/SAT IN L/R jacks.

* MHC-RV555/RV55 only

4 Press REC PAUSE/START.

Deck B stands by for recording.
“REC” flashes.

5 Press REC PAUSE/START, then start playing the desired source to record.

Recording starts.

To stop recording

Press ■.

Notes

- You cannot listen to other sources while recording.
- If TAPE B is selected in step 3, silence is recorded.

Tips

- For MHC-RV555/RV55, when you record on both sides, be sure to start from the front side. If you start from the reverse side, recording stops at the end of the reverse side.
- For recording from the tuner:
If noise is heard while recording from the tuner, move the respective antenna to reduce the noise.

Sound Adjustment

Adjusting the sound

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

Press GROOVE on the unit.

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

GROOVE ON* → V-GROOVE ON* → GROOVE OFF

* The volume switches to power mode, the equalizer curve changes, and “GROOVE” or “V GROOVE” lights up.

Selecting the sound effect

Selecting the effect from the music menu

Press EQ (or PRESET EQ on the unit) repeatedly to select the preset you desire.

The preset name appears in the display. See the chart “Sound effect options”.

To cancel the sound effect

Press EFFECT ON/OFF on the unit.

Sound effect options

“SURR” appears if you select an effect with surround effects.

EQ	Effect
ROCK	Standard music sources
POP	
JAZZ	
DANCE	
SOUL	
ORIENTAL	
MOVIE EQ	Soundtracks and special listening situations
GAME EQ	PlayStation 1, 2 and other video game music sources

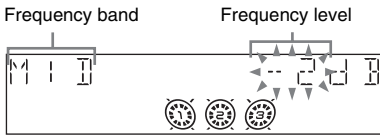
Adjusting the graphic equalizer and storing

You can adjust the sound by raising or lowering the levels of specific frequency ranges, then store up to three personal files (P FILE) in the memory.

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

Use buttons on the unit for the operation.

- 1 Press EQ BAND repeatedly to select a frequency band, then turn – EQ + to adjust the level.**



- 2 Press and hold P FILE.**
A personal file number appears.
- 3 Press P FILE repeatedly to select P FILE 1 – 3 you want to store the equalizer setting.**
- 4 Press ENTER.**

“COMPLETE” appears.

This setting is automatically stored as the personal file you selected in step 3.

Other operations

To	Press
Call up a personal file	P FILE repeatedly to select the desired personal file number.
Cancel a personal file	EFFECT ON/OFF repeatedly until “EFFECT OFF” appears.

Selecting the surround effect

Press SURROUND on the unit.

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

SURROUND ON (SURR)
↑
SURROUND OFF (off)

Enhancing video game sound

— Game Sync

You need to connect a video game machine (see “Hooking up optional components” on page 34).

Press GAME on the unit.

Tips

- In the standby mode, the system automatically turns on.
- The GAME EQ is automatically selected (page 24).
- These operations cannot be performed in Power Saving Mode (page 30).

Mixing video game sound with other sound source

— Game Mixing

Use buttons on the unit for the operation.

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 → MIXING MID →
MIXING HIGH → MIXING OFF

Notes

- If you start recording while Game Mixing is activated, Game Mixing is canceled. To record the mixed sound, press **GAME MIXING** after step 4 of “Recording on a tape manually” on page 23, and then press **REC PAUSE/START** to start the recording.
- This system outputs the video signal from the **GAME INPUT VIDEO** jack while Game Mixing is activated.
- The game sound is not output while the tape deck is performing the **AMS** operation (page 22).

Tip

Once Game Mixing is activated, it will remain active while the power is on even if the source sound is changed.

Singing along: Karaoke



You can sing along by connecting an optional microphone.

Enjoying Karaoke

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

2 Connect an optional microphone to **MIC** jack.

3 Press **KARAOKE/MPX** repeatedly to obtain the karaoke effect you desire.

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

KARAOKE PON → MPX L → MPX R
→ KARAOKE OFF* (effect status)

To sing karaoke of multiplex CD, select “MPX L” or “MPX R”.

* Karaoke mode is canceled.

4 Start playing the music.

5 Adjust the microphone volume by turning **MIC LEVEL** on the unit.

After you have finished

Turn **MIC LEVEL** on the unit to **MIN** and disconnect the microphone from **MIC** jack.

Other operations

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

* This function is not available on MP3 audio tracks.

Notes

- With some songs, vocals may not be canceled when you select "KARAOKE PON".
- If you press EQ (or PRESET EQ or EFFECT ON/OFF on the unit) or recall a sound effect, or change equalizer and surround settings, the karaoke mode is canceled.
- The instrumental sound may be reduced as well as the singer's voice when the sound is recorded in monaural.
- The singer's voice may not be reduced when:
 - only a few instruments are playing.
 - a duet is being played.
 - the source has strong echoes or chorus.
 - the singer's voice deviates from the center.
 - the voice on the source is singing in high soprano or tenor.
- While listening to audio from any function when either "MPX L" or "MPX R" is selected, the sound from the surround speakers is cut off (MHC-RV555/RV55 only).

Mixing and recording sounds

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 on a tape. Use buttons on the unit for the operation.

1 Prepare the source you want to mix. Then, load a recordable tape in deck B and press TAPE A/B repeatedly to select deck B.

2 (MHC-RV555/RV55 only) Press PLAY MODE repeatedly to select "←" to record on one side. Select "↔" (or RELAY) to record on both sides.

When you want to record from the reverse side, press $\triangleleft \triangleright$ twice or until the TAPE B reverse side indicator lights up. Then press \blacksquare .

3 Press the function button of the source you want to record (e.g., CD).

When you want to record from TAPE A, press TAPE A/B repeatedly until TAPE A is selected.

4 Press REC PAUSE/START.

Deck B stands by for recording. "REC" flashes.

5 Press REC PAUSE/START, and then start singing, speaking or playing the desired source.

Recording starts.

To stop recording

Press \blacksquare .

Note

Microphone does not function while the tape deck is performing the AMS operation (page 22).

Tips

- If acoustic feedback (howling) occurs, move the microphone away from the speakers or change the direction of the microphone.
- If you want to record your voice through the microphone only, you can do so by selecting the CD function and not playing a disc.
- When high level sound signals are input, the system automatically adjusts the recording level to prevent distortion of the recorded sound signal (Auto Level Control function).

Timer

Falling asleep to music

— Sleep Timer

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

Press SLEEP.

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

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

* The system automatically turns off in 100 minutes or after the current disc or tape finishes playing.

Other operations

To	Press
Check the remaining time*	SLEEP once.
Change the time to turn off	SLEEP repeatedly to select the time you want.
Cancel the Sleep Timer Function	SLEEP repeatedly until "SLEEP OFF" appears.

* You cannot check the remaining time if you select "AUTO".

Note

Do not set to "AUTO" during Synchro Recording on a tape.

Tip

You can use the Sleep Timer, even if you have not set the clock.

Waking up to music

— Play 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).

Use buttons on the remote for the operation.

1 Prepare the sound source you want to play.

- CD: Load a disc. To start from a specific track, make a program (see "Creating your own program" on page 15).
- Tape: Load a tape with the side you want to play facing forward.
- Tuner: Tune in the preset radio station (see "Listening to the radio" on page 19).

2 Press VOLUME +/- to adjust the volume.

3 Press CLOCK/TIMER SET.

4 Press ◀◀ or ▶▶ repeatedly to select "PLAY SET", then press ENTER. "ON" appears and the hour indication flashes.

5 Set the time to start playing.

Press ◀◀ or ▶▶ repeatedly to set the hour, then press ENTER.

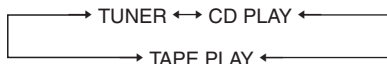
The minute indication flashes.

Press ◀◀ or ▶▶ repeatedly to set the minute, then press ENTER.

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

7 Press ◀◀ or ▶▶ repeatedly until the desired sound source appears.

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



8 Press ENTER.

The type of timer (“PLAY TIMER”), the start time, the stop time, and the sound source appear in turn, before the original display returns.

9 Press I/⏻ to turn off the system.

Other operations

To	Do this
Check the setting	<ol style="list-style-type: none">1 Press CLOCK/TIMER SELECT.2 Press ◀◀ or ▶▶ repeatedly until “PLAY SELECT” appears, then press ENTER.
Change the setting	Start over from step 1.
Cancel the timer	<ol style="list-style-type: none">1 Press CLOCK/TIMER SELECT.2 Press ◀◀ or ▶▶ repeatedly until “TIMER OFF” appears, then press ENTER.

Notes

- You cannot activate the Play Timer and the Rec Timer at the same time.
- If you use the Play Timer and the Sleep Timer at the same time, the Sleep Timer has priority.
- If the system is on at the preset time, the Play Timer will not be activated.
- For MHC-RV555/RV55, you cannot use the optional component connected to VIDEO/SAT IN L/R jacks as the sound source for Play Timer.

Tip

The system turns on 15 seconds before the preset time.

Timer recording radio programs

— Rec Timer

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 18) and set the clock (see “Setting the clock” on page 10).

Use buttons on the remote for the operation.

- 1 **Tune in the preset radio station (see “Listening to a preset station” on page 19).**
- 2 **Press CLOCK/TIMER SET.**
- 3 **Press ◀◀ or ▶▶ repeatedly to select “REC SET”, then press ENTER.**
“ON” appears and the hour indication flashes.
- 4 **Set the time to start recording.**
Press ◀◀ or ▶▶ repeatedly to set the hour, then press ENTER.
The minute indication flashes.
Press ◀◀ or ▶▶ repeatedly to set the minute, then press ENTER.
- 5 **Set the time to stop recording following the same procedure as step 4.**
The type of timer (“REC TIMER”), the start time, the stop time, and the preset radio station to be recorded (e.g., “TUNER FM 5”) appear in turn, before the original display returns.
- 6 **Load a recordable tape into deck B.**
- 7 **Press I/⏻ to turn off the system.**

Other operations

To	Do this
Check the setting	<ol style="list-style-type: none">1 Press CLOCK/TIMER SELECT.2 Press ◀◀ or ▶▶ repeatedly until “REC SELECT” appears, then press ENTER.
Change the setting	Start over from step 1.
Cancel the timer	<ol style="list-style-type: none">1 Press CLOCK/TIMER SELECT.2 Press ◀◀ or ▶▶ repeatedly until “TIMER OFF” appears, then press ENTER.

Notes

- You cannot activate the Play Timer and the Rec Timer at the same time.
- If you use the Rec Timer, the Play Timer and the Sleep Timer at the same time, the Sleep Timer has priority.
- If the system is on at the preset time, the Rec Timer will not be activated.
- The volume is reduced to minimum during recording.

Tip

The system turns on 15 seconds before the preset time.

Display

Turning off the display

— Power Saving Mode

The demonstration display (display window and buttons lighting and flashing even when the system power is off) and the clock display can be turned off to minimize the amount of power consumed during standby (Power Saving Mode).

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

To cancel Power Saving Mode

Press DISPLAY while the system is off. Each time you press the button, the display switches cyclically as follows:

Demonstration display → Clock display* → No display (Power Saving Mode)

* The clock is displayed only if you set the clock.

Note

You cannot perform the following operations in Power Saving Mode.

- setting the clock
- changing the AM tuning interval (except for Saudi Arabian model)
- turning on the system by pressing the function buttons (e.g., CD)
- changing the CD power manage function (page 19)
- changing the color system (page 8)

Tips

- The timer continues to operate in Power Saving Mode.
- I/⏻ indicator lights up even in Power Saving Mode.

Viewing information about the disc in the display

You can check the playing time and remaining time of the current track or that of the disc.

Checking the remaining time and titles (VIDEO CD/CD/MP3)

Press DISPLAY during Normal Play.

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

■ When playing a CD/MP3/VIDEO CD without PBC function (Ver. 1.1)

Current track number and elapsed playing time → Current track number and remaining time¹⁾ → Remaining time of the disc²⁾ → Track title (CD-TEXT disc³⁾ or disc with MP3 audio tracks⁴⁾ only → Album name (disc with MP3 audio tracks only) → Clock display (for eight seconds) → Effect status

- 1) “- - -” appears when playing back MP3 audio tracks.
- 2) “- - -” appears in ALL DISCS, SHUFFLE or program play mode or when playing back MP3 audio tracks.
- 3) When the disc contains more than 20 tracks, CD-TEXT is not displayed from track 21 on.
- 4) When you play back a track with an ID3 tag ver. 1, the ID3 tag appears. The ID3 tag displays only the track title information.

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

Elapsed playing time of the current track* → Clock display (for eight seconds) → Effect status

- * The elapsed playing time may not be displayed in some cases such as during still image playback.

Checking the total playing time and titles (VIDEO CD/CD/MP3)

Press DISPLAY in stop mode.

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

■ When a VIDEO CD/CD/MP3 is in Normal Play mode

TOC display¹⁾ or total album number of the disc²⁾ or total track number of the current album²⁾ → Album name²⁾ or volume label²⁾ or Disc title³⁾ → Clock display (for eight seconds) → Effect status

- 1) TOC = Table of Contents; displays current disc number, total number of tracks on the disc, and total playing time of the disc.
- 2) For discs with MP3 audio tracks, album names or volume label may not be displayed depending on the play mode.
- 3) For CD-TEXT discs (certain characters cannot be displayed) and discs with MP3 audio tracks. For a MP3 audio disc, either the Disc title or Album name of the current disc is displayed.

■ When a VIDEO CD/CD/MP3 is in Program Play mode

The last track number of the program and the total playing time → Total track number of the program (for five seconds) → Track title of the last programmed track* → Clock display (for eight seconds) → Effect status

- * For discs with MP3 audio tracks

Checking the station name (TUNER)

Press **DISPLAY** while listening to the radio.

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

Preset number* and frequency → Clock display (for eight seconds) → Effect status

* Preset number is displayed only if you preset radio stations (page 18).

Notes

- The total playing time is not displayed for a disc with MP3 audio tracks.
- ID3 tag applies to version 1.
- If the MP3 audio track you play back has an ID3 tag, the ID3 tag information is displayed as a track title.
- In the following cases, elapsed playing time and remaining time of the track may not be displayed accurately.
 - when an MP3 audio track of VBR (variable bit rate) is played.
 - when fast forward or fast reverse is performed.

Changing the Power Illuminator

Press **ILLUMINATION** on the unit.

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

PATTERN 1 → PATTERN 2 → PATTERN 3 → PATTERN OFF

Viewing information about the disc in the on-screen display

You can check the current operating status and disc information during playback or in stop mode. Depending on conditions, some items are displayed and others are not.

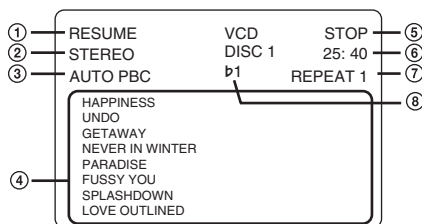
Press **ON SCREEN**.

Each time you press this button, the on-screen display changes cyclically as follows:

ON SCREEN 1 → ON SCREEN 2 → ON SCREEN OFF*

* No display (except for Time Search/Disc Digest)

ON SCREEN display 1, 2 in stop mode



①

While the deck is: Displayed

In stop mode	“RESUME” or no display
During playback	Current disc and track number

② “STEREO”, “KARAOKE PON”, “MPX L” or “MPX R”

③ Play mode or “AUTO PBC”*

(🎵): All discs/🎵: One disc/📀: Album)

* “AUTO PBC” appears for a VIDEO CD with PBC functions.

④

While the deck is: Displayed

In stop mode of an MP3 audio track*	Album name
In Program Play mode	Programed disc and track number
During playback of an MP3 audio track*	Current album name and track name
In other conditions	No display

* When the MP3 audio track information includes an ID3 tag, the on-screen display information may differ from the ID3 information shown on the system display in order to display the track name.

⑤

While the deck is: Displayed

During playback	Elapsed time of the current track
In stop mode	“STOP”

⑥

While the deck is: Displayed

In stop mode	Total playing time of the current disc*
In Program Play mode	Total playing time of the program

* “-:-:-” appears for a disc with MP3 audio tracks.

⑦ “REPEAT”, “REPEAT 1” or no display

⑧ Key control level or no display

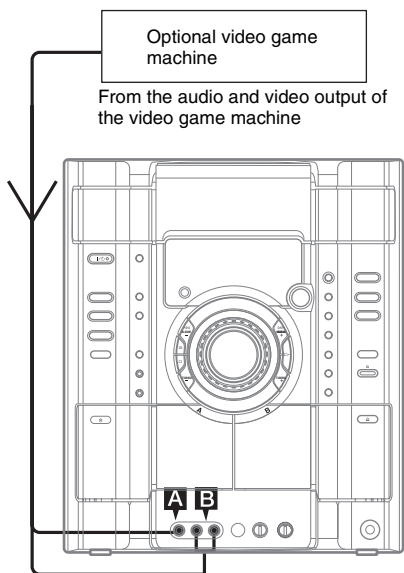
Notes

- Check to make sure that ON SCREEN OFF is selected when recording a video signal played back by this system onto a video tape, etc. Otherwise the display information will also be recorded onto the video tape.
- Noise may be heard when switching the on-screen display.

Optional Components

Hooking up optional components

To enhance your system, you can connect optional components. Refer to the operating instructions provided with each component. MHC-RV22 is used for illustration purpose.



A GAME INPUT VIDEO jack

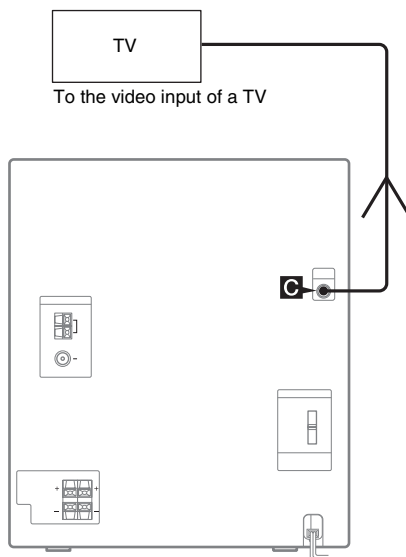
Use a video cable (not supplied) to connect the video output of the optional video game machine to this jack.

B GAME INPUT AUDIO L/R 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.

C VIDEO OUT jack

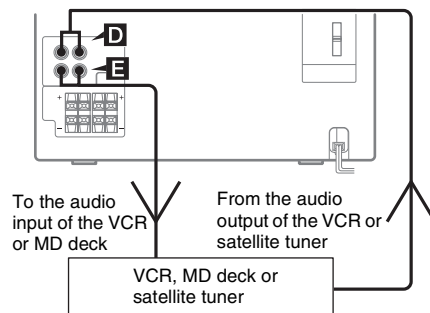
Use a video cable (not supplied) to connect the video input of TV to this jack.



D VIDEO/SAT IN L/R jacks

E VIDEO/SAT OUT L/R jacks (MHC-RV555/RV55 only)

Use audio cords (not supplied) to connect the audio output/input of the optional component (such as VCR, MD deck or satellite tuner) to these jacks. You can then output audio through this system.



Notes

- The video game machine image may appear on the TV screen even if the system is turned off.
- See “Selecting the surround effect” on page 25 for video game sound effects.
- If you press GAME on the unit while the system is off, the system turns on, the function switches to GAME, and the equalizer also switches to GAME EQ.
- If you press GAME on the unit while the system is on, the function switches to GAME and the equalizer automatically switches to GAME EQ in the same manner.

Listening to audio from a connected component

(MHC-RV555/RV55 only)

Use buttons on the unit for the operation.

Listening to a connected VCR

1 Connect the audio cords.

See “Hooking up optional components” on page 34.

2 Press VIDEO/SAT.

Start playing the connected component.

Listening to a connected satellite tuner, MD deck, etc.

1 Connect the audio cords.

See “Hooking up optional components” on page 34.

2 Press VIDEO/SAT.

Hold down VIDEO/SAT and press I/⏻.
This switches the VIDEO function to SAT.
Once you enable the SAT function, just press VIDEO/SAT.

Notes

- If you cannot select “SAT” when you press VIDEO/SAT, press I/⏻ while holding down VIDEO/SAT when the system is on. “VIDEO” will be switched to “SAT”. To return to “VIDEO”, do the same procedure.
- When you connect a VIDEO CD deck, set to “SAT”.

Recording on a connected component

(MHC-RV555/RV55 only)

Making an analog recording from a VIDEO CD to a video tape

- 1** Connect the optional audio cords from the VIDEO/SAT OUT L/R jacks and the supplied video cable from the VIDEO OUT jack to your VCR.
- 2** Start recording.
Refer to the operating instructions provided with connected component.

Making an analog recording on a connected component

- 1** Connect the optional audio cords.
See “Hooking up optional components” on page 34.
- 2** Start recording.
Refer to the operating instructions provided with connected component.

Troubleshooting

Problems and remedies

Should you encounter a problem with your system, do the following:

- 1 Make sure the power cord and speaker cords are correctly and firmly connected.
- 2 Find your problem in the troubleshooting checklist below and take the indicated corrective action.

If the problem persists after doing all of the above, consult your nearest Sony dealer.

When the I/⏻ indicator flashes

Immediately unplug the power cord and check the following items.

- If your system has a voltage selector, is the voltage selector set to the correct voltage? Check the voltage for your region, then make sure the voltage selector is set correctly.
- Are the + and – speaker cords short-circuited?
- Are you using only the prescribed speakers?
- Is anything blocking the ventilation holes on the rear of the system?

Check all the above items and fix any problems found. After I/⏻ indicator stops flashing, reconnect the power cord and turn on the system. If the indicator still flashes, or if the cause of the problem cannot be found even after checking all the above items, consult your nearest Sony dealer.

General

The display starts flashing as soon as you plug in the power cord even though you have not turned on the system (see step 6 of “Hooking up the system” (page 7)).

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

“- -: -” appears in the display.

- A power interruption has occurred. Set the clock (page 10) and timer settings (pages 28 and 29) again.

The clock setting/radio presetting/timer is canceled.

- Redo the following:
 - “Setting the clock” (page 10)
 - “Presetting radio stations” (page 18)
 - “Falling asleep to music” and “Waking up to music” (page 28)
 - “Timer recording radio programs” (page 29)

There is no sound.

- Press VOLUME +/- or turn VOLUME control on the unit clockwise.
- Make sure the headphones are not connected.
- Check the speaker connections (page 7).
- There is no audio output during the Rec Timer.

There is no microphone sound.

- Press VOLUME +/- (or turn VOLUME control on the unit) or turn MIC LEVEL on the unit to adjust the microphone volume.
- Make sure the microphone is connected to the MIC jack on the unit correctly.

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

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

Sound lacks bass.

- Check that the speaker’s + and – jacks are connected correctly.

There is severe hum or noise.

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

The timer cannot be set.

- Set the clock again (page 10).

The timer does not function.

- Check the timer setting and set the correct time (pages 29 and 30).
- Cancel the Sleep Timer Function (page 28).

The remote does not function.

- Remove the obstacle.
- Move the remote closer to the system.
- Point the remote at the system's sensor.
- Replace the batteries (R6/size AA).
- Locate the system away from the fluorescent light.

There is acoustic feedback.

- Reduce the volume.
- Move the microphone away from the speakers or change the direction of the microphone.

The color irregularity on a TV screen persists.

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

The sound from the connected source is distorted (MHC-RV555/RV55 only).


- If "VIDEO" appears in the display when you press VIDEO/SAT on the unit, switch the display to "SAT" (see "Listening to audio from a connected component (MHC-RV555/RV55 only)" on page 35).

VIDEO CD/CD/MP3 player



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

- Contact your Sony dealer or local authorized Sony service facility.

The disc tray does not close.

- Place the disc correctly.
- Always close the tray by pressing  on the unit. Trying to press the tray closed with your fingers may cause problems with the player.


The disc does not eject.

- You cannot eject the disc during CD Synchro Recording. Press  to cancel the CD Synchro Recording, then press  on the unit to eject the disc.
- Consult your nearest Sony dealer.

There is no picture.

- Check that the player is connected securely.
- Make sure you operate the TV correctly.
- Make sure you set the color system correctly, according to your TV (color) system.
- Press CD.
- Make sure that Game Mixing is canceled.

Play does not start.

- Open the disc tray and check whether a disc is loaded.
- Wipe the disc clean (page 42).
- Replace the disc.
- Place the disc that this system can play (page 5).
- Place the disc correctly.
- Place the disc in the tray with the label side up.
- Remove the disc and wipe away the moisture on the disc, then leave the system turned on for a few hours until the moisture evaporates.
- Press  to start play.

Disc access takes a long time.

- Set "CD POWER ON" by CD power manage function (page 19).

The sound skips.

- Wipe the disc clean (page 42).
- Replace the disc.
- Try moving the system to a place without vibration (e.g., on top of a stable stand).
- Try moving the speakers away from the system, or placing them on separate stands. When you listen to a track with bass sounds at high volume, the speaker vibration may cause the sound to skip.

Play does not start from the first track.

- Press PLAY MODE repeatedly until both "PGM" and "SHUF" disappear to return to Normal Play.

MP3 audio track cannot be played back.

- Recording was not performed according to the ISO9660 level 1 or level 2 format or Joliet in the expansion format.
- The MP3 audio track does not have the extension ".MP3".
- The data is not stored in MP3 format.
- Discs containing files other than MPEG 1 Audio Layer-3 files cannot be played.
- Files that are too small (64 kB or less) cannot be played back.

MP3 audio tracks take longer to play back than others.

- After the system reads all tracks on the discs, playback may take more time than usual if:
 - the number of albums or tracks on the disc is very large.
 - the album and track organization structure is very complex.

The album name, track title and ID3 tag and the CD-TEXT characters do not appear correctly.

- Use a disc that conforms with ISO9660 level 1, level 2 or Joliet in the expansion format.
 - The disc ID3 tag is not ver. 1.
 - The characters that can be displayed by this unit are as follows:
 - Upper cases (A to Z)
 - Numbers (0 to 9)
 - Symbols (< > * + , - / [] \ _)
- Other characters may not be displayed correctly.
-

Tuner

Severe hum or noise/stations cannot be received. (“TUNED” or “STEREO” flashes in the display.)

- Set the proper band and frequency (page 18).
- Connect the antenna properly (page 8).
- Find a place and an orientation that provide good reception, then set up the antenna again. If you cannot obtain good reception, we recommend you connect a commercially available external antenna.
- The supplied FM lead antenna receives signals along its entire length, so make sure you extend it fully.
- Locate the antennas as far away from the speaker cords as possible.
- Try turning off surrounding electrical equipment.
- Set “CD POWER OFF” by CD power manage function (page 19).

A stereo FM program cannot be received in stereo.

- Press FM MODE repeatedly until “STEREO” appears.
-

Tape deck

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

- The heads are dirty. Clean them (page 42).
- The record/playback heads are magnetized. Demagnetize them (page 42).

The tape does not erase completely.

- The record/playback heads are magnetized. Demagnetize them (page 42).

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

- The capstans or pinch rollers are dirty. Clean them (page 42).

Noise increases or the high frequencies are erased.

- The record/playback heads are magnetized. Demagnetize them (page 42).

The tape does not record.

- No cassette is loaded. Load a cassette.
 - The tab has been removed from the cassette. Cover the broken tab with adhesive tape (page 42).
 - The tape has wound to the end.
-

If the system still does not operate properly after performing the above measures, reset the system as follows:

Use buttons on the unit for the operation.

- 1** Disconnect the power cord.
- 2** Reconnect the power cord.
- 3** Press **■**, **PLAY MODE/TUNING MODE** and **DISC 1** at the same time.
- 4** Press **I/⏻** to turn on the system.

The system is reset to the factory settings. You should set the settings you made, such as the preset stations, clock, and timer.

Messages

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

VIDEO CD/CD/MP3

NO DISC

There is no disc in the player or you have loaded a disc that cannot be played on this system (such as DVD).

NOT IN USE

You pressed an invalid button.

OVER

You have reached the end of the disc or the end of MP3 audio track while pressing ►► during playback or pause.

PUSH STOP

You pressed PLAY MODE or SPECIAL MENU during playback.

READING

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

STEP FULL

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

Tape

NO TAB

You cannot record the tape because the tab has been removed from the cassette.

NO TAPE

There is no tape in the tape deck.

Additional Information

Precautions

On operating voltage

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

On safety

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

On placement

- Do not place the system in an inclined position.
- Do not place the system in locations where it is:
 - Extremely hot or cold
 - Dusty or dirty
 - Very humid
 - Subject to vibrations
 - Subject to direct sunlight.
- Use caution when placing the unit or speakers on surfaces that have been specially treated (with wax, oil, polish, etc.) as staining or discoloration of the surface may result.

On heat buildup

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

In case color irregularity is observed on nearby a TV screen

With the magnetically shielded type of speaker system, the speakers can be installed near a TV set. However, color irregularity may still be observed on the TV screen depending on the type of your TV set.

If color irregularity is observed...

Turn off the TV set, then turn it on after 15 to 30 minutes.

If color irregularity is observed again...

Place the speakers farther away from the TV set.

IMPORTANT NOTICE

Caution: This system is capable of holding a still video image or on-screen display image on your television screen indefinitely. If you leave the still video image or on-screen display image displayed on your TV for an extended period of time you risk permanent damage to your television screen. Projection televisions are especially susceptible to this.

On operation

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

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

Notes on discs

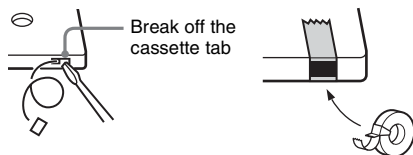
- Before playing, clean the disc with a cleaning cloth. Wipe the disc from the center out.
- Do not use solvents such as benzene, thinner, commercially available cleaners or anti-static spray intended for vinyl LPs.
- Do not expose the disc to direct sunlight or heat sources such as hot air ducts, nor leave it in a car parked in direct sunlight.
- When using discs that have glue or similar tacky substance on the label side of the disc or that used a special ink when the label was printed, there is a chance that the disc or label may become attached to parts inside this unit. When this occurs, it may not be possible to remove the disc, and may also cause this unit to malfunction. Be sure to check that the label side of the disc is not sticky before using.
The following types of disc should not be used:
 - Rental or used discs with attached seals where the glue extends beyond the seal. The perimeter of the seal on the disc is tacky.
 - Discs that have labels printed using a special ink that feels tacky when touched.
- Discs with non-standard shapes (e.g., heart, square, star) cannot be played on this unit. Attempting to do so may damage the unit. Do not use such discs.

Cleaning the cabinet

Clean the cabinet, panel and controls with a soft cloth slightly moistened with mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent such as thinner, benzene or alcohol.

To save a tape permanently

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



If you later want to reuse the tape for recording, cover the broken tab with adhesive tape.

Before placing a cassette in the tape deck

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

When using a tape longer than 90 minutes

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

Cleaning the tape heads

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

Demagnetizing the tape heads

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

Specifications

Main unit

Amplifier section

MHC-RV555/RV55

Front speaker

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

DIN power output (rated): 120 + 120 watts
(6 ohms at 1 kHz, DIN)

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

MHC-RV222/RV22

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

DIN power output (rated): 100 + 100 watts
(6 ohms at 1 kHz, DIN)

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

Inputs

VIDEO/SAT IN (phono jacks) (MHC-RV555/RV55
only): voltage 450/250 mV,
impedance 47 kilohms

GAME INPUT AUDIO L/R (phono jacks):
voltage 250 mV,
impedance 47 kilohms

GAME INPUT VIDEO (phono jack):
1Vp-p, 75 ohms
MIC (phone jack): sensitivity 1 mV,
impedance 10 kilohms

Outputs

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

VIDEO OUT (phono jack):
max. output level 1Vp-p,
unbalanced, Sync
negative, load impedance
75 ohms

VIDEO/SAT OUT (phono jacks) (MHC-RV555/
RV55 only): impedance 1 kilohm
SPEAKER: accepts impedance of 6 to
16 ohms

SURROUND SPEAKER (MHC-RV555/RV55 only):
accepts impedance of
24 ohms

CD player section

System	Compact disc and digital audio system
Laser	Semiconductor laser ($\lambda=770 - 810$ nm) Emission duration: continuous
Frequency response	2 Hz – 20 kHz (± 0.5 dB)
Signal-to-noise ratio	More than 90 dB
Dynamic range	More than 90 dB
Video color system format	NTSC, PAL

Tape deck section

Recording system	4-track 2-channel, stereo
Frequency response	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	
Saudi Arabian model:	531 – 1,602 kHz (with the tuning interval set at 9 kHz)
Other models:	530 – 1,710 kHz (with the tuning interval set at 10 kHz) 531 – 1,602 kHz (with the tuning interval set at 9 kHz)
Antenna	AM loop antenna
Antenna terminals	External antenna terminal
Intermediate frequency	450 kHz

Speaker

Front speaker SS-RV55 for MHC-RV55

Front speaker SS-RV555 for MHC-RV555

Speaker system	3-way, 3-unit, bass-reflex type, magnetically shielded type
Speaker units	
Woofer:	15 cm, cone type
Sub woofer:	15 cm, cone type
Tweeter:	5 cm, cone type
Nominal impedance	6 ohms
Dimensions (w/h/d)	Approx. 242 × 365 × 295 mm
Mass	Approx. 6.5 kg net per speaker

Surround speaker SS-RS420 for MHC-RV555/RV55

Speaker system	1-way, 1-unit, bass-reflex type
Speaker units	
Full-range:	8 cm, cone type
Nominal impedance	24 ohms
Dimensions (w/h/d)	Approx. 180 × 105 × 195 mm
Mass	Approx. 0.85 kg net per speaker

Front speaker SS-RV999 for MHC-RV22

Front speaker SS-RV222 for MHC-RV222

Speaker system	3-way, 3-unit, bass-reflex type, magnetically shielded type
Speaker units	
Woofer:	13 cm, cone type
Sub woofer:	13 cm, cone type
Tweeter:	5 cm, cone type
Nominal impedance	6 ohms
Dimensions (w/h/d)	Approx. 242 × 327 × 235 mm
Mass	Approx. 4.1 kg net per speaker

General

Power requirements	
Saudi Arabian model:	120 – 127/220 or 230 – 240 V AC, 50/60 Hz Adjustable with voltage selector
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	
MHC-RV555/RV55:	155 watts
MHC-RV222/RV22:	180 watts

Dimensions (w/h/d) incl. projecting parts and controls
Amplifier/Tuner/Tape/CD section:

Approx. 280 × 327 × 425 mm

Mass	
HCD-RV555/RV55:	Approx. 10.6 kg
HCD-RV222/RV22:	Approx. 10.1 kg

Supplied accessories	Remote Commander (1) R6 (Size AA) batteries (2) AM loop antenna (1) FM lead antenna (1) Speaker pads (8) Video cable (1)
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Design and specifications are subject to change without notice.

Glossary

Album

Section of a music piece or an image on a data CD containing MP3 audio tracks.

Auto Pause

An automatical pauses according to the signal encoded on the disc while playing a VIDEO CD. If the CD player does not resume play for a long time, press ► to resume play manually.

Menu Playback

Playback using the menu screens recorded on VIDEO CDs with PBC functions. You can enjoy simple interactive software using the menu playback function.

Playback Control (PBC)

Signals encoded on VIDEO CDs (Ver. 2.0) to control playback. By using menu screens recorded on VIDEO CDs with PBC functions, you can enjoy playing simple interactive programs, programs with search functions, and so on.

This system conforms to Ver. 1.1 and Ver. 2.0 of VIDEO CD standards. You can enjoy two kinds of playback depending on the disc type.

VIDEO CDs without PBC functions (Ver. 1.1 discs)

Enjoy video playback (moving pictures) as well as music.

VIDEO CDs with PBC functions (Ver. 2.0 discs)

Play interactive software using menu screens displayed on the TV screen (PBC Playback), in addition to the video playback functions of Ver. 1.1 discs. Moreover, you can play high-resolution still pictures, if they are included on the disc.

Scene

On a VIDEO CD with PBC (playback control) functions, the menu screens, moving pictures, and still pictures are divided into sections called “scenes”.

Track

Sections of a picture or a music piece on a CD, VIDEO CD or MP3. An album is composed of several tracks (MP3 only).

VIDEO CD

A compact disc that contains moving pictures. The picture data uses the MPEG 1 format, one of the worldwide standards for digital compression technology. The picture data is compressed to about 1/140 of its original size. Consequently, a 12 cm VIDEO CD can contain up to 74 minutes of moving pictures.

VIDEO CDs also contain compact audio data. Sounds outside the range of human hearing are compressed while the sounds we can hear are not compressed. VIDEO CDs can hold 6 times the audio information of conventional audio CDs.

There are 2 versions of VIDEO CDs.

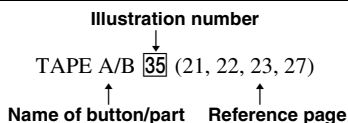
- Version 1.1: You can play only moving pictures and sounds.
- Version 2.0: You can play high-resolution still pictures and enjoy PBC functions.

This system conforms to both versions.

List of button locations and reference pages

How to use this page

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



Main unit

ALPHABETICAL ORDER

A - O

- ALBUM + **18** (12, 15, 22)
- ALBUM - **27** (12, 15, 22)
- CD **37** (9, 11, 14, 15, 19, 22, 23)
- CD SYNC **29** (22)
- Deck A **30** (21)
- Deck B **17** (21, 22, 23, 27, 29)
- DISC 1 - 3 **10** (12, 15, 39)
- DISC SKIP/EX-CHANGE **12**
(11, 12, 15, 22)
- Disc tray **9** (11)
- DISPLAY **2** (30, 31)
- Display window **5**
- ECHO LEVEL **22** (27)
- EFFECT ON/OFF **8** (24, 25)
- ENTER **11** (15, 18, 25)
- EQ BAND **7** (25)
- GAME **34** (23, 25, 35)
- GAME INPUT AUDIO L/R jacks
25 (23, 34)
- GAME INPUT VIDEO jack **26**
(34)
- GAME MIXING **28** (26)
- GROOVE **8** (24)
- ILLUMINATION **3** (32)
- KARAOKE/MPX **16** (26)
- MIC jack **24** (26)
- MIC LEVEL **23** (26)
- Operation Dial
(- EQ +/- <<< >>> I) **6** (12, 15, 22, 25)

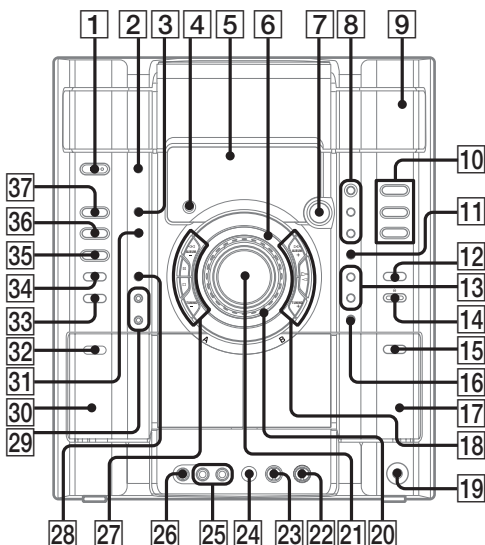
P - Z

- P FILE **13** (25)
- PHONES jack **19**
- PLAY MODE **31** (12, 15, 21, 22, 23, 27, 39)
- Power illuminator **20** (32)
- PRESET EQ **13** (24)
- REC PAUSE/START **29** (22, 23, 26, 27)
- Remote sensor **4**
- SURROUND **8** (25)
- TAPE A/B **35** (21, 22, 23, 27)
- TUNER/BAND **36** (18, 19, 23)
- TUNING MODE **31** (18, 19, 39)
- TUNING + **18** (18, 19)
- TUNING - **27** (18, 19)
- VIDEO/SAT* **33** (23, 35)
- VOLUME control **21**

BUTTON DESCRIPTIONS

- I/⏻ (on/standby) **1** (8, 19, 30, 35, 37, 39)
- ▲ (eject) **14** (11)
- PUSH ▲ (deck B) (eject) **15** (21)
- ▶▶ (fast forward) **18** (8, 12, 22)
- ▷ or ◁▶* (play) **18** (12, 21, 22)
- ⏸ (pause) **27** (8, 12, 22)
- (stop) **27** (12, 22, 27, 39)
- ◀◀ (rewind) **27** (8, 12, 22)
- ▲ PUSH (deck A) (eject) **32** (21)

* MHC-RV555/RV55 only



Remote control

ALPHABETICAL ORDER

A - M

- ALBUM +/- **11** (12, 15)
- CD **21** (11, 15)
- CLEAR **17** (16)
- CLOCK/TIMER SELECT **26**
(29, 30)
- CLOCK/TIMER SET **26** (10, 28,
29)
- DISC SKIP **10** (12, 15)
- DISPLAY **3** (30, 31)
- ENTER **12** (10, 15, 18, 28, 29)
- EQ **16** (24)
- FM MODE **2** (20)
- FUNCTION **4** (11, 14, 15, 18,
19)
- KARAOKE/MPX **15** (26)

N - Z

- NEXT **19** (14)
- Number buttons **20** (13, 14, 16)
- ON SCREEN **6** (32)
- PLAY MODE **24** (12, 15, 21)
- PREV **19** (14)
- REPEAT **2** (15)
- SELECT **9**
- SLEEP **25** (28)
- SPECIAL MENU **7** (16)
- TAPE **22**
- TUNER BAND **5** (18, 19)
- TUNER MEMORY **23** (18)
- TUNING MODE **24** (18, 19)
- VOLUME +/- **14** (28)

BUTTON DESCRIPTIONS

- I/⏻ (on/standby) **1** (8, 29)
- ◀▶ (rewind/fast forward)
8 (12, 22)
- ▶ (play) **9** (12, 21)
- ⏸ (pause) **9** (12, 22)
- (stop) **9** (12, 22)
- KEY CONTROL #/b **13** (27)
- RETURN ↻ **18** (14)
- +/- (tuning) **19** (18)
- ◀▶ (go back/go forward)
19 (10, 12, 22)

