

Micro Hi-Fi Component System

Operating Instructions



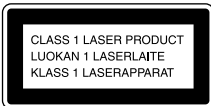
CMT-M80V

WARNING

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

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

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



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

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.

The following caution label is located inside the apparatus.



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



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.

This system can play the following discs

	VIDEO CDs	Audio CDs
Disc logo		
Contents	Audio + Video (moving pictures)	Audio
Disc size	12 cm/8 cm	12 cm/8 cm
Play time	74 min./20 min.	74 min./20 min.

Notes on VIDEO CDs

- This system conforms to VIDEO CDs without PBC functions (Ver. 1.1) and VIDEO CDs with PBC functions (Ver. 2.0) of VIDEO CD standards. You can enjoy two kinds of playback according to the disc type.

Disc type	You can
VIDEO CDs without PBC functions (Ver. 1.1 discs)	Enjoy video playback (moving pictures) as well as audio CDs.
VIDEO CDs with PBC functions (Ver. 2.0 discs)	Play interactive software using menu screens displayed on the TV screen (menu playback), in addition to the video playback function of VIDEO CDs without PBC functions. Moreover, you can play high or standard quality still picture.

PBC = Playback Control

- VIDEO CDs with CD audio tracks may not play properly.

Notes on CD-R and CD-RW discs

This system can play the following discs:

Type of discs	Label on the disc
Audio CD	
MP3 files	

- Discs recorded on CD-R/CD-RW drives may not be played back because of scratches, dirt, recording condition or the drive's characteristics.
- You cannot play a CD-R/CD-RW that is not finalized.
- You cannot play a CD-R/CD-RW that is recorded in Multi Session.

Table of Contents

This system can play the following discs . . . 2

List of Button Locations and Reference Pages

Main unit 4
Remote Control 5

Getting Started

Hooking up the system 6
Inserting two size AA (R6) batteries into
the remote 7
Setting the clock 8

CD/VIDEO CD/MP3 file

Loading a disc 9
Playing a VIDEO CD
— Normal Play/Shuffle Play/
Repeat Play 9
Playing VIDEO CDs with PBC functions
(Ver. 2.0)
— PBC Play 11
Playing a CD
— Normal Play/Shuffle Play/
Repeat Play 11
Programming VIDEO CD/CD tracks
— Program Play 12
Playing a disc with MP3 files 13
Locating a specific part of a VIDEO CD
— Time Search/Disc Digest 15
Resuming playback from the point you
stopped a VIDEO CD
— Resume Play 16

Tuner

Presetting radio stations 17
Listening to the radio 18

Tape

Loading a tape 20
Playing a tape 20
Recording to a tape
— CD Synchro Recording/Recording
Manually/Program Edit 21
Timer recording radio programs 22

Sound Adjustment

Adjusting the sound 24

Display

Turning off the display
— Power Saving Mode 24
Using the display 25
Using the on-screen display 25

Other Features

Singing along: Karaoke 27
Falling asleep to music
— Sleep Timer 28
Waking up to music
— Daily Timer 29

Optional Components

Hooking up optional components 30
Listening to audio from a connected
component 31
Recording audio from a connected
component 31

Troubleshooting

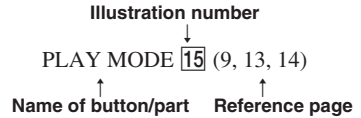
Problems and remedies 32

Additional Information

Precautions 35
Specifications 37
Glossary 39 **3GB**

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 - M

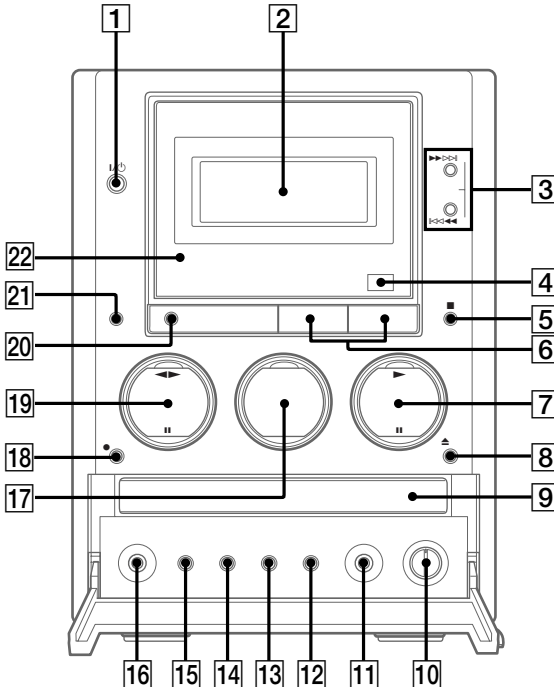
- CD ► **7** (9–14, 16)
- CD **11** **7** (10, 12, 14)
- CD SYNCHRO **13** (21, 22)
- CD SYNCHRO indicator **22** (22)
- DIRECTION **12** (20–22, 28)
- Disc tray **9** (9)
- Display window **2**
- DSG **20** (24)
- FM MODE **14** (18, 19)
- FUNCTION **21** (9, 11–13, 20, 21, 28, 31)
- MIC jack **11** (27)
- MIC LEVEL **10** (27)

P - V

- PHONES jack **16**
- PLAY MODE **15** (9, 11–14, 16, 22)
- Remote sensor **4**
- REPEAT **14** (10, 12, 14, 22)
- TAPE ◀▶ **19** (20–22)
- TAPE **11** **19** (20–22, 28)
- TUNER AM **17** (17–19)
- TUNER FM **17** (17–19)
- TUNING +/- **3** (17–19)
- TUNING MODE **15** (17–19)
- VOLUME +/- **6**

BUTTON DESCRIPTIONS

- I/⏻ (power) **1**
- ◀▶/▶▶ **3**
- ◀◀/▶▶ **3**
- **5**
- ▲ CD **8**
- REC **18**



Remote Control

ALPHABETICAL ORDER

A - N

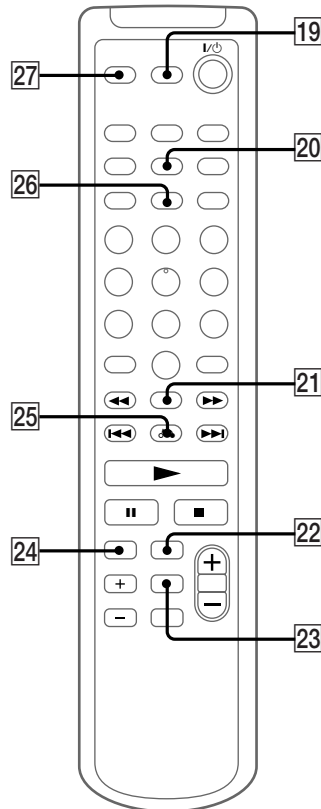
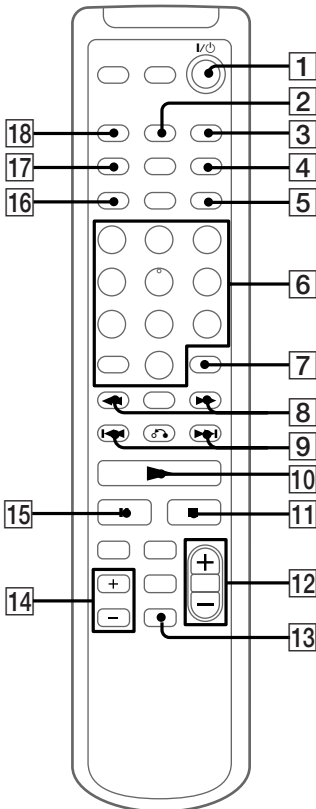
ALBUM +/- **14** (13, 14)
 BASS/TREBLE **21** (24)
 CD **24** (9, 11-13, 21)
 CLEAR **18** (13)
 CLOCK/TIMER SELECT **20**
 (23, 29)
 CLOCK/TIMER SET **4** (8, 22,
 29)
 DISPLAY **2** (24, 25)
 DSG **13** (24)
 ENTER **3** (8, 10, 12, 17, 23, 29)
 KEY CONTROL **7** (27)
 K.PON/MPX **19** (27)
 NEXT **9** (10, 11, 16)
 Numeric buttons **6** (10, 15, 18)

O - V

ON SCREEN **27** (25)
 PICTURE EFFECT **26** (10)
 PREV **9** (10, 11, 16)
 RETURN **25** (11)
 SELECT **10** (11, 15)
 SLEEP **17** (28)
 SPECIAL MENU **16** (15)
 TAPE **23** (20)
 TUNER BAND **22** (17, 18)
 TUNING MEMORY **5** (17)
 VOLUME +/- **12**

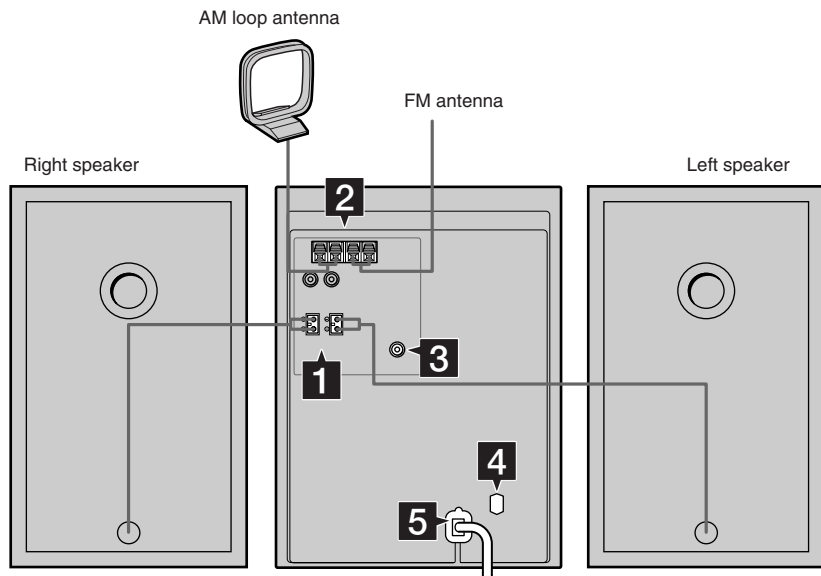
BUTTON DESCRIPTIONS

I/⏻ (power) **1**
 ▶ **10**
 || **15**
 ■ **11**
 ◀▶▶▶ **9**
 ◀◀◀◀ **8**
 +/- **9**



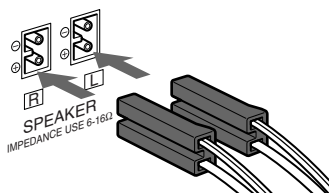
Hooking up the system

Perform the following procedure **1** to **6** to hook up your system using the supplied cords and accessories.



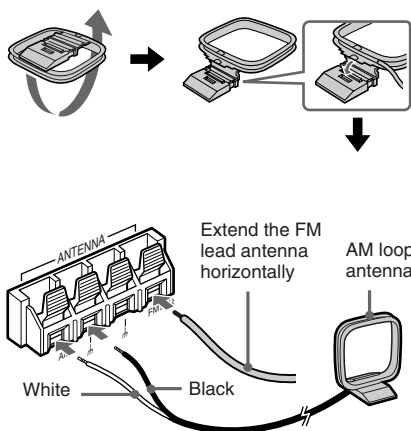
1 Connect the speakers.

Connect the right and left speaker cords to the SPEAKER terminals as shown below.

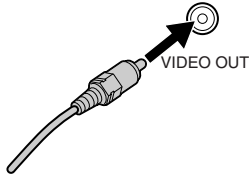


2 Connect the FM and AM antennas.

Set up the AM loop antenna, then connect it.



- 3** Connect the video input jack of your TV to the VIDEO OUT jack with the video cable.



When using a TV

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

- 4** 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.

110V-120V*



220V-240V
VOLTAGE
SELECTOR

*Saudi Arabian model: 120–127V

- 5** Connect the power cord to a wall outlet.

If the plug does not fit the wall socket, detach the supplied plug adaptor (only for models equipped with an adaptor).

To turn on the system, press I/⏻.

- 6** Set the color system according to your TV while the power is off.

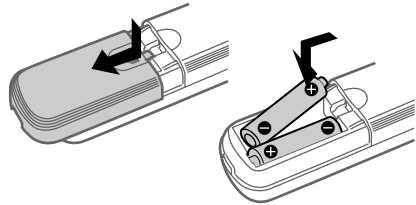
The color system of your TV	Do this
PAL	While holding down ⏪⏩⏪⏩, press I/⏻.
AUTO*	While holding down ⏩⏩⏩⏩, press I/⏻.
NTSC	While holding down ■, press I/⏻.

* When your TV automatically changes the color system according to the input signal.

Notes

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

Inserting two size AA (R6) batteries into the remote



Tip

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

Note

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

Setting the clock

1 Press I/⏻ 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.

5 Press ◀◀ or ▶▶ on the remote repeatedly to set the minute.

6 Press ENTER on the remote.

The clock starts working.

If you make a mistake

Press ◀◀ or ▶▶ on the remote until the incorrect item flashes, then set it again.

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.

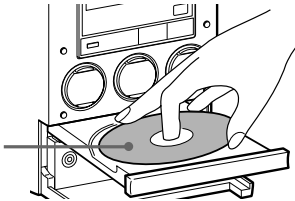
Loading a disc

1 Press \triangle CD.

The disc tray slides out.

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

When you play a 8 cm disc, place it on the inner circle of the tray.



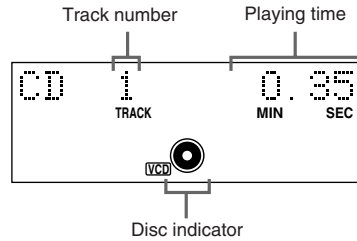
3 Press \triangle CD again to close the disc tray.

Playing a VIDEO CD

— Normal Play/Shuffle Play/Repeat Play

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

This system lets you play the VIDEO CD in different play modes.



1 Turn on your TV and select the video input.

Refer to the instructions included with your TV for details.

2 Press FUNCTION (or CD on the remote) repeatedly to switch the function to CD.

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

Select	To play
No display/ALBM (Normal Play)	The tracks on the VIDEO CD in original order.
SHUFFLE/ ALBM SHUFFLE (Shuffle Play)	The tracks on the VIDEO CD in random order.
PGM (Program Play)	The tracks on the VIDEO CD in the order you want them to be played (see "Programming VIDEO CD/CD tracks" on page 12).

4 Press CD \blacktriangleright (or \blacktriangleright on the remote).

Notes

- You cannot change the play mode during playback.
- When you change the function, the disc indicator may light up even when there is no disc.

continued

Playing a VIDEO CD (continued)

Other operations

To	Do this
Stop play	Press ■.
Pause	Press CD II (or II on the remote)* ¹ . Press again to resume play.
Select a track or scene* ²	Press II<< or >>II (or PREV or NEXT on the remote) repeatedly.
Find a point in a track or scene (Lock Search Function)	During playback, press and hold down <<< or >>> until the system starts searching. <ol style="list-style-type: none">① Press once to start searching.② Press again to increase the search speed. Each time you press the button, the search speed changes as follows: 1 (slow) → 2 (normal) → 3 (high) → 1 (slow) → ...③ Press CD ▶▶ (or ▶▶ on the remote). The searching stops and the playback starts.
Play repeatedly (Repeat Play)	Press REPEAT repeatedly during playback until "REPEAT" or "REPEAT 1" appears in the display. REPEAT: For all the tracks on the disc. REPEAT 1* ² : For only the currently playing track. To cancel playing repeatedly, press REPEAT repeatedly until "REPEAT" and "REPEAT 1" disappear from the display.
Adjusting the picture	<ol style="list-style-type: none">① During playback, press PICTURE EFFECT on the remote.② Adjust the picture using II<<, ▶▶II, <<<, or >>> on the remote.③ Press ENTER on the remote.
Remove a disc	Press ▲ CD.

*¹ There may be some disturbance in the paused video image.

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

To enter track number using the remote

You can also select the desired track (or scene for VIDEO CD with PBC functions) using the remote during Normal Play.

Press the numeric buttons. The playback automatically starts.

To enter a track number over 10

1 Press >10.

2 Enter the corresponding digits.

To enter 0, press 10/0 instead.

Example:

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

Playing VIDEO CDs with PBC functions (Ver. 2.0)

— PBC Play




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

1 Start playing a VIDEO CD with PBC functions (Ver. 2.0).

The PBC menu appears on the TV screen.


2 Press the numeric buttons on the remote repeatedly to select the item number you want.

3 Continue playback according to the instructions on the menus to enjoy interactive playback.

To	Do this
Stop play	Press ■.
Go to the next menu page or scene	Press NEXT on the remote.
Go back to the previous menu page or scene	Press PREV on the remote.
Go back to the previous menu	Press RETURN  on the remote.
Cancel playback with PBC functions (Ver. 2.0)	In stop mode, press  or  to select the desired track, then press SELECT on the remote (or press the numeric buttons). The PBC indicator disappears and playback begins from the selected track. Still images such as menu screens will not be shown.
Play with PBC functions (ver. 2.0) after cancellation above	In stop mode, press ■.
Select a menu number	Press numeric buttons (see "To enter a track number using the remote" on page 10).

Tips

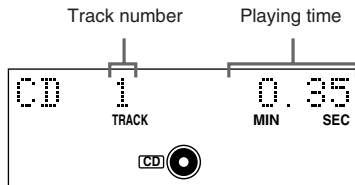


- When  appears on the TV screen, you have pressed an invalid button. Press the button indicated on the menu screen.
- "PBC" appears for the disc with PBC functions, and PBC indicator disappears when its function is canceled.

Playing a CD

— Normal Play/Shuffle Play/Repeat Play

This system lets you play the CD in different play modes.



1 Press FUNCTION (or CD on the remote) repeatedly to switch the function to CD.

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

Select	To play
No display/ALBM (Normal Play)	The tracks on the CD in original order.
SHUFFLE/ALBM SHUFFLE (Shuffle Play)	The tracks on the CD in random order.
PGM (Program Play)	The tracks on the CD in the order you want them to be played (see "Programming VIDEO CD/CD tracks" on page 12).

3 Press CD (or on the remote).

Notes

- You cannot change the play mode during playback.
- When you change the function, the disc indicator may light up even when there is no disc.

continued

Playing a CD (continued)

Other operations

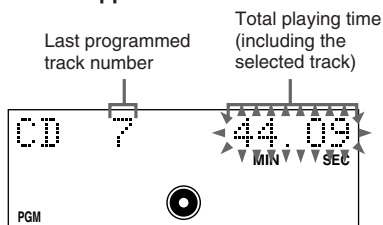
To	Do this
Stop play	Press ■.
Pause	Press CD ■■ (or ■■ on the remote). Press again to resume play.
Select a track	Press ◀◀ or ▶▶ (or ◀◀ or ▶▶ on the remote) repeatedly.
Find a point in a track (Lock Search Function)	During playback, press ◀◀ or ▶▶. At the desired point, press CD ▶ (or ▶ on the remote) to stop searching and start playback.
Play repeatedly (Repeat Play)	Press REPEAT repeatedly during playback until "REPEAT" or "REPEAT 1" appears in the display. REPEAT: For all the tracks on the disc. REPEAT 1: For only the currently playing track. To cancel playing repeatedly, press REPEAT repeatedly until "REPEAT" and "REPEAT 1" disappear from the display.
Remove a disc	Press ▲ CD.

Programming VIDEO CD/ CD tracks

— Program Play

You can make a program of up to 25 tracks.

- 1 Press FUNCTION (or CD on the remote) repeatedly to switch the function to CD.**
- 2 Press PLAY MODE in stop mode repeatedly until "PGM" appears.**
- 3 Press ◀◀ or ▶▶ on the remote repeatedly until the desired track number appears.**



- 4 Press ENTER on the remote.**
The track is programmed.
The step number appears, followed by the last programmed title or track number.
- 5 To programme additional tracks, repeat steps 3 and 4.**
- 6 Press CD ▶ (or ▶ on the remote).**

Other operations

To	Do this
Cancel Program Play	Press PLAY MODE in stop mode repeatedly until "PGM" disappear.
Check the program order	Press ◀◀ or ▶▶ on the remote repeatedly during Program Play.
Add a track to the end of the program	Perform steps 3 and 4 in stop mode.
Clear a track from the end of program	Press CLEAR on the remote in stop mode.

To program the MP3 files

After step 2, press ALBUM + or – on the remote until the album you want appears, and then go to step 3.

Tips

- The program you made remains after Program Play finishes. To play the same program again, press CD ▶ (or ▶ on the remote).
- "--:--" appears when the total VIDEO CD/CD program time exceeds 100 minutes, when you select a VIDEO CD/CD track whose number is 21 or over, or when you programmed MP3 files.

Playing a disc with MP3 files

About MP3 files

MP3 (MPEG 1 Audio Layer-3) is a standard technology and format for compressing a sound sequence. The file is compressed to about 1/10 of its original size. Sounds outside the range of human hearing are compressed while the sounds we can hear are not compressed.

Notes on discs

You can play MP3 files recorded on CD-ROMs, CD-Rs (recordable CDs), and CD-RWs (rewritable CDs).

The disc must be in the ISO 9660* level 1 or level 2 format.

*ISO 9660 Format

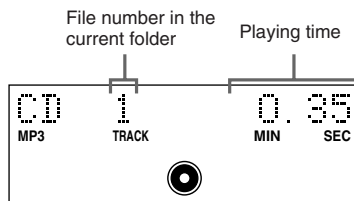
The most common international standard for the logical format of files and folders on a CD-ROM.

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.

Playing the disc

— Normal Play/Shuffle Play/Repeat Play

This system lets you play the CD in different play modes.



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

continued

Playing a disc with MP3 files (continued)

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

Select	To play
No display (Normal Play)	The files on the disc in original order.
ALBM (Normal Play)	The folder you have selected in original order.
SHUFFLE (Shuffle Play)	The files on the disc in random order.
ALBM SHUFFLE (Shuffle Play)	The files in the folder you have selected in random order.
PGM (Program Play)	The files on the disc in the order you want them to be played (see "Programming VIDEO CD/CD tracks" on page 12).

3 Press CD ► (or ► on the remote).

Other operations

To	Do this
Stop play	Press ■.
Pause	Press CD ■■ (or ■■ on the remote). Press again to resume play.
Select a file	Press ◀◀ or ▶▶ (or ◀◀ or ▶▶ on the remote) repeatedly.
Select a folder of MP3 files	Press ALBUM + or – on the remote after step 2.
Find a point in a file* (Lock Search Function)	During playback, press ◀◀ or ▶▶. At the desired point, press CD ► (or ► on the remote) to stop searching and start playback.
Play repeatedly (Repeat Play)	Press REPEAT repeatedly during playback until "REPEAT" or "REPEAT 1" appears in the display. REPEAT: For all the files on the disc. REPEAT 1: For only the currently playing file. To cancel playing repeatedly, press REPEAT repeatedly until "REPEAT" and "REPEAT 1" disappear from the display.
Remove a disc	Press ▲ CD.

* You can search points in the same file only. The time display may not be correct depending on the file.

To enter a file number using the remote

You can also select the desired file using the remote during Normal Play.

Press the numeric buttons. The playback automatically starts.

To enter a file number over 10

1 Press >10.

2 Enter the corresponding digits.

To enter 0, press 10/0 instead.

Example:

To enter file number 15 in the folder containing more than 100 files, press >10, then 10/0, 1 and 5.

Notes

- With formats other than ISO 9660 level 1 and 2, folder names or file names may not be displayed correctly.
- When naming, be sure to add the file extension “.MP3” to the file name.
- If you use the extension “.MP3” to a file other than MP3, the unit cannot recognize the file properly and will generate random noise that could damage your speakers.
- A disc recorded with complicated tree structure takes a longer time to start playback.
- When the disc is inserted, the player reads all the files on that disc. If there are many folders or non-MP3 files on the disc, it may take a long time for player to begin or for the next MP3 files to start play.
- We recommend that you do not save other types of files or unnecessary folders than MP3 files in the disc to be used for MP3 listening.
- A folder that does not include an MP3 file is skipped.
- Maximum folder number in a disc: 255 (The maximum number of MP3 files and folders that can be contained on a single disc is 512.)
- When you store the files and folders in a tree structure, files in a maximum of 8 levels can be played.
- Files and folders are played in the order they are recorded on the disc.
- Depending on the encoding/writing software, recording device, or the recording media used at the time an MP3 file is recorded, you may encounter such problems as disabled playback, sound interruptions, and noise.

Locating a specific part of a VIDEO CD

— Time Search/Disc Digest

The TV screen must be ON to use these functions.

Use the remote for the operation.

Tips

- When you stop playback, press ■.
- When you enter a number 10 or over with numeric buttons on the remote, press the numeric buttons (see “To enter a track number using the remote” on page 10).
- When you use VIDEO CDs with PBC functions (Ver.2.0), cancel the PBC functions (see “Cancel playback with PBC functions (Ver. 2.0)” on page 11).

Note

If you press SPECIAL MENU to activate Time Search or Disc Digest in program or shuffle play mode, the play mode switches to normal play mode.

Locating by elapsed time

— Time Search

- 1 Press SPECIAL MENU in stop mode.**
- 2 Press 1 to select “1) TIME SEARCH.”**
- 3 Press the numeric buttons to enter the time (in minutes) for the desired section.**
The selected elapsed time appears on the TV screen.
- 4 Press SELECT.**
Playback starts from the selected time.

continued

Locating a specific part of a VIDEO CD (continued)

Locating the desired track of a VIDEO CD

— Disc Digest

You can select the desired track by viewing the first frame of each track. Nine 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 appear.

3 Press the numeric buttons to select the desired track.

To display the next 9 tracks

Press NEXT. The first frame of tracks 10 through 18 appear.

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

To display previous tracks, press PREV.

Resuming playback from the point you stopped a VIDEO CD

— Resume Play

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

Note that Resume Play is not available when playing an audio CD, and a disc with MP3 file.

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

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

2 Press CD ▶ (or ▶ on the remote).

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

To view from the beginning of the VIDEO CD

When “RESUME” appears on the TV screen, press ■, then press CD ▶ (or ▶ on the remote).

Notes

- Resume Play is not available in the Digest, Shuffle, or Program Play modes.
- Depending on where you stopped the VIDEO CD, the player may resume playback from a different point.
- Resume play is cleared when:
 - you operate numeric buttons, PLAY MODE, ■, ◀◀ or ▶▶.
 - you remove the VIDEO CD.
 - you turn off the system.
 - you change the function.
 - you unplug the AC power cord.

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.

To	Method
Automatically tune in all of the stations that can be received in your area and then store them manually	Automatic Tuning Preset
Manually tune in and store the radio frequency of your favorite stations	Manual Tuning Preset

Setting presets through automatic tuning

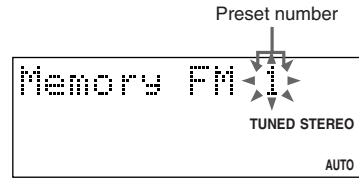
- 1 Press **TUNER FM** or **TUNER AM** (or **TUNER BAND** on the remote) to select FM or AM.
- 2 Press **TUNING MODE** repeatedly until “**AUTO**” appears in the display.
- 3 Press **TUNING +** or **-** (or, **◀** or **▶**) on the remote).

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 stereo program only) 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 5 of “Setting presets through manual tuning”.

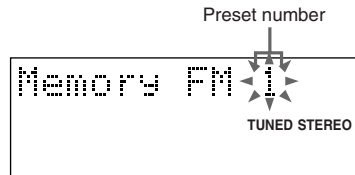
- 4 Press **TUNING MEMORY** on the remote.
- 5 Press **TUNING +** or **-** (or, **◀** or **▶**) on the remote) repeatedly to select the desired preset station.



- 6 Press **ENTER** on the remote. “Complete!” appears, then the station is stored to the selected preset number.
- 7 Repeat steps 1 through 6 to preset other stations.

Setting presets through manual tuning

- 1 Press **TUNER FM** or **TUNER AM** (or **TUNER BAND** on the remote) to select FM or AM.
- 2 Press **TUNING MODE** repeatedly until “**AUTO**” and “**PRESET**” disappear from the display.
- 3 Press **TUNING +** or **-** (or, **◀** or **▶**) on the remote) repeatedly to tune in the desired station.
- 4 Press **TUNING MEMORY** on the remote.
- 5 Press **TUNING +** or **-** (or, **◀** or **▶**) on the remote) repeatedly to select the desired preset station.



- 6 Press **ENTER** on the remote. “Complete!” appears, then the station is stored to the selected preset number.
- 7 Repeat steps 1 through 6 to preset other stations.

continued

Presetting radio stations (continued)

Other Operations

To	Do this
Tune in a station with a weak signal	Follow the procedure described in “Setting presets through manual tuning”.
Change the preset station	Start over from step 1.
Change the preset number	Start over from step 1.

Note

If “Complete!” does not appear when you press ENTER on the remote in step 6, press DISPLAY on the remote, then start over from step 1.

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

The AM tuning interval is factory-preset to 9 kHz. To change the AM tuning interval, tune in any AM station first, then turn off the system. While holding FM MODE, press I/⏻. When you change the interval, all the AM preset stations are erased. To reset the interval, tune in any AM station first, then turn off the system. While holding FM MODE, press I/⏻.

Note

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

Tips

- The preset stations are retained for about a day even if you disconnect the mains lead or if a power failure occurs.
- To improve the reception, adjust the supplied antennas or connect an 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 17).

- 1** Press TUNER FM or TUNER AM (or TUNER BAND on the remote) to select FM or AM.
- 2** Press TUNING MODE repeatedly until “PRESET” appears in the display.
- 3** Press TUNING + or – (or, ◀ or ▶ on the remote) repeatedly to select the desired preset station.

To select the desired preset number using the numeric buttons on the remote

Press numeric buttons instead of performing step 3.

To enter preset number 10 or higher, press >10 and the corresponding numeric buttons. To enter 0, press 10/0.

Example:

To enter preset number 20, press >10, then 2 and 10/0.

Listening to non-preset radio station

— Manual Tuning

- 1** Press TUNER FM or TUNER AM (or TUNER BAND on the remote) to select FM or AM.
- 2** Press TUNING MODE repeatedly until “AUTO” and “PRESET” disappear from the display.
- 3** Press TUNING + or – (or, ◀◀ or ▶▶ on the remote) repeatedly to tune in the desired station.

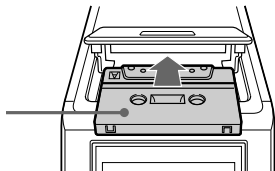
Tips

- 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 2 above, then press TUNING + or – (or, ◀◀ or ▶▶ on the remote). The frequency indication changes and scanning stops when the system tunes in a station (Automatic Tuning).

Loading a tape

- 1 Press **▲** PUSH.
- 2 Load a recorded/recordable tape into the cassette holder.

With the side you want to play/record facing up



Other operations

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

Playing a tape

You can use TYPE I (normal) tape.

- 1 Press **FUNCTION** (or **TAPE** on the remote) repeatedly to switch the function to **TAPE**.
- 2 Press **DIRECTION** repeatedly to select “**↔**” to play one side of a tape, “**↔↔**” to play both sides, or “**↔↔**”^{*} to play both sides repeatedly.

* The tape deck stops automatically after repeating the sequence five times.

- 3 Press **TAPE** **◀▶**.
Press TAPE **◀▶** again to play the bottom side.

Recording to a tape

— CD Synchro Recording/Recording Manually/Program Edit

You can record from a disc (or connected components) or radio. You can use Type I (normal) tape.

Steps	Recording from a VIDEO CD/CD (CD Synchro Recording)	Recording manually
1	Load a recordable tape into the cassette holder.	
2	Load a disc onto the disc tray.	Press FUNCTION repeatedly to select the source you want to record from.
3	Press FUNCTION (or CD on the remote) repeatedly until “ CD ” appears in the display.	Load a disc (or other audio source), or tune in the desired station.
4	Press CD SYNCHRO .	Press ● REC .
	The tape stands by for recording. “ REC ” and “ ▶ ” (or “ ◀ ”) appear. To start recording on the side facing away from you, press TAPE ◀▶ until “ REC▶ ” changes to “ ◀REC ”.	
5	Press DIRECTION repeatedly to select “ ↔ ” to record on one side of the tape, or “ ↔ ” or “ ↔ ” to record on both sides.	
6	Press TAPE II .	Press TAPE II , and then start playing the desired source.

Tape

To stop recording

Press **■**.

Note

Depending on the VIDEO CD, you cannot use the CD Synchro Recording. In this case, record from the VIDEO CD manually.

Tip

For recording manually:

To pause recording, press **TAPE II**.

continued

Recording a VIDEO CD/CD by specifying the track order

— Program Edit

- 1 Load a disc and insert a recordable tape into the cassette holder.**
- 2 Program the tracks following step 1 to 5 in “Programming VIDEO CD/CD tracks” on page 12.**
- 3 Press CD SYNCHRO.**

The tape stands by for recording and the CD stands by for playback.
“REC” and “▶” (or “◀”) appear, and the CD SYNCHRO indicator lights up.
To start recording on the side facing away from you, press TAPE ◀▶ until “REC▶” changes to “◀REC”.
- 4 Press DIRECTION repeatedly to select “→” to record on one side of the tape, or “↔” or “↔” to record on both sides.**
- 5 Press TAPE II.**

To record a disc with MP3 files by specifying file order

After step 1, program the MP3 files following the procedures in “To program the MP3 files” on page 13, then proceed to step 3 above.

To	Do this
Stop recording	Press ■.
Cancel Program Edit	Press PLAY MODE repeatedly until “PGM” disappears from the display.

Timer recording radio programs

To timer record, you must first preset the radio station (see “Presetting radio stations” on page 17) and set the clock (see “Setting the clock” on page 8).

- 1 Tune in the preset radio station (see “Listening to the radio” on page 18).**
- 2 Press CLOCK/TIMER SET on the remote.**
- 3 Press I◀◀ or ▶▶I on the remote repeatedly to select “REC SET?”, then press ENTER on the remote.**

“ON” appears and the hour indication flashes.
- 4 Set the time to start recording.**

Press I◀◀ or ▶▶I on the remote repeatedly to set the hour, then press ENTER on the remote.
The minute indication flashes.
Press I◀◀ or ▶▶I on the remote repeatedly to set the minute, then press ENTER on the remote.
- 5 Set the time to stop recording following the same procedure as step 4.**
- 6 Load a recordable tape.**
- 7 Press I/⏻ to turn off the system.**

Other operations

To	Do this
Check the settings/ activate the timer	1 Press CLOCK/TIMER SELECT on the remote. 2 Press ◀◀ or ▶▶ on the remote repeatedly until “REC SELECT?” appears, then press ENTER on the remote.
Change the setting	Start over from step 1.
Cancel the timer	1 Press CLOCK/TIMER SELECT on the remote. 2 Press ◀◀ or ▶▶ on the remote repeatedly until “TIMER OFF?” appears, then press ENTER on the remote.

Notes

- You cannot activate the Daily Timer and recording timer at the same time.
- If you use the recording timer and the Sleep Timer at the same time, the Sleep Timer has priority.
- Do not operate the system from the time the system turns on until the recording starts (about 15 seconds before the preset time).
- If the system is on about 15 seconds before the preset time, the timer-recording will not be activated.
- The volume is reduced to minimum during recording.

Adjusting the sound

Generating a more dynamic sound (Dynamic Sound Generator)

Press DSG.

To cancel the DSG, press DSG again.

Adjusting the bass and treble

- 1 Press BASS/TREBLE on the remote repeatedly to select “BASS” or “TREBLE”.
- 2 While “BASS” or “TREBLE” appears, press ◀◀ or ▶▶ on the remote repeatedly to adjust the level.

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 on the remote repeatedly while the system is off until 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 as follows:

Clock display ↔ No display (Power Saving Mode)

Tip

The timer continues to operate in Power Saving Mode.

Using the display

You can check the remaining time of the current track or the entire disc.

When a CD-TEXT disc or a disc with MP3 files is loaded, you can also check the information recorded on the disc, such as the titles.

Press DISPLAY.

During normal playback

Elapsed playing time of the current track →
Remaining time of the current track*¹ →
Remaining time of the disc*² → Track title of
CD-TEXT disc*³ or file name of MP3 file →
Folder name of MP3 file (for a few seconds)*⁴
→ Clock display → Effect status

During playback with PBC function (VIDEO CD Ver. 2.0)

Elapsed playing time of the current track*⁵ →
Clock display → Effect status

In stop mode

Total number of tracks or albums and total
playing time*⁶ → Disc title*⁷ or title name of
the current folder*⁸ → Clock display → Effect
status

*¹ “--:--” appears when playing the program
containing more than 20 tracks or 100 minutes, or
MP3 files.

*² “--:--” appears in “SHUFFLE” or “PROGRAM”
mode, or when playing MP3 files.

*³ CD-TEXT will not be displayed for track number
21 or over.

*⁴ Only for MP3 files.

*⁵ May not appear with still images.

*⁶ Total playing time will not appear for the discs
with MP3 files.

*⁷ Only for CD-TEXT discs or discs with MP3 files.
CD-TEXT will not be displayed for track number
21 or over.

*⁸ Only for MP3 files.

Notes

- Depending on the disc, some information or CD-TEXT characters may not appear.
- The display contents differ depending on the play mode.

Using the on-screen display

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

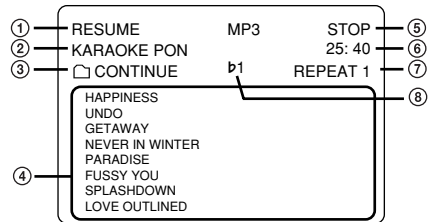
Press ON SCREEN on the remote.

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. Note, however, that the respective display appears during Time Search/Disc Digest.

ON SCREEN 1, 2 display



①	When	The display shows:
	In stop mode	“RESUME” or no display

② KARAOKE effect status

③ Play mode (Disc / Album) or
“AUTO PBC”*

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

continued

Using the on-screen display (continued)

④ When	The display shows:
In stop mode of a disc with MP3 files	Folder name
In Program Play mode	Programmed track number
During playback of a disc with MP3 files*	Current folder name and file name
Other conditions	No display

* When the MP3 file information includes an ID3 tag, the on-screen display shows the file name, which may differ from the ID3 information shown on the system display.

⑤ When	The display shows:
During playback	Elapsed time of current track
In stop mode	“STOP”

⑥ When	The display shows:
In stop mode	Total playing time of the disc*

* In program play mode, total playing time of the program appears, or “-.-” appears when playing MP3 files.

⑦ “REPEAT”, “REPEAT 1” or no display

⑧ Key control level or no display

Notes

- Normally, leave the display mode set to either ON SCREEN 1 or 2. When you select ON SCREEN OFF, you cannot check the operating status on the TV screen.
- When you record video signals played back from this system onto a video tape, etc., be sure to select ON SCREEN OFF. Otherwise, the display information will also be recorded on the video tape.
- You may hear noise when switching the on-screen display.

Singing along: Karaoke

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

- 1 Turn MIC LEVEL to MIN to turn down the microphone control level.**
- 2 Connect an optional microphone to MIC.**
- 3 Press K.PON/MPX on the remote repeatedly to obtain the karaoke effect you desire.**

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


KARAOKE PON → MPX R → MPX L
→ KARAOKE OFF


The  indicator appears when karaoke mode is activated.

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

- 4 Press CD ►.**
- 5 Adjust the microphone volume by turning MIC LEVEL.**

After you have finished

Turn MIC LEVEL to MIN and disconnect the microphone from MIC, then press K.PON/MPX on the remote repeatedly until "" disappears.

To	Do this
Use VIDEO CDs	Turn on your TV and switch it to the appropriate video input.
Cancel karaoke mode	Turn MIC LEVEL to MIN and disconnect the microphone from MIC, then press K.PON/MPX on the remote repeatedly until "  " disappears.
Adjust the key*	Press KEY CONTROL on the remote, then press +/- repeatedly to adjust the key to suit your vocal range.

* Does not work with MP3 files.

Notes

- With some songs, vocals may not be canceled when you select "KARAOKE PON."
- 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.

continued

Mixing and recording sounds

- 1** Do the procedure for “Singing along” (steps 1 through 5). Then, load a recordable tape.
- 2** Press **FUNCTION** (or **CD** on the remote) repeatedly to switch the function to **CD**.
- 3** Press **● REC**.
- 4** Press **DIRECTION** repeatedly to select **↔** to record on one side. Select **↔↔** (or **↔↔**) to record on both sides.
To start recording on the side facing away from you, press **TAPE** **◀▶** until “**REC▶**” changes to “**◀REC**.”
- 5** Press **TAPE II**.
- 6** Press **CD ▶**.

Start singing along with the music.

To stop recording

Press **■**.

Tips

- If acoustic feedback (howling) occurs, move the microphone away from the speakers or change the direction of the microphone.
- If you want to record your voice through the microphone only, you can do so by selecting the **CD** function, but 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).

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:

SLEEP OFF → **AUTO*** → 90min → 80min → ... → 10min

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

Other operations

To	Press
Check the remaining time**	SLEEP on the remote once.
Change the time to turn off	SLEEP on the remote to select the time you want.
Cancel the Sleep Timer Function	SLEEP on the remote 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.

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 8).

- 1 Prepare the sound source you want to play.**
 - VIDEO CD/CD: Load a disc. To start from a specific track, make a programme (see “Programming VIDEO CD/CD tracks” on page 12).
 - Tape: Load a tape.
 - Radio: Tune in the preset radio station (see “Listening to the radio” on page 18).

- 2 Press VOLUME + or – to adjust the volume.**

- 3 Press CLOCK/TIMER SET on the remote to display “DAILY SET?”.**

- 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.

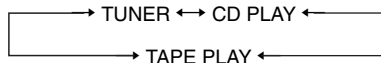
The minute indication flashes.

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

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

- 7 Press ◀◀ or ▶▶ on the remote repeatedly until the desired sound source appears.**

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



- 8 Press ENTER on the remote.**

The start time, the stop time, and the sound source appear in turn, then the original display returns.

- 9 Press I/⏻ to turn off the system.**

Other operations

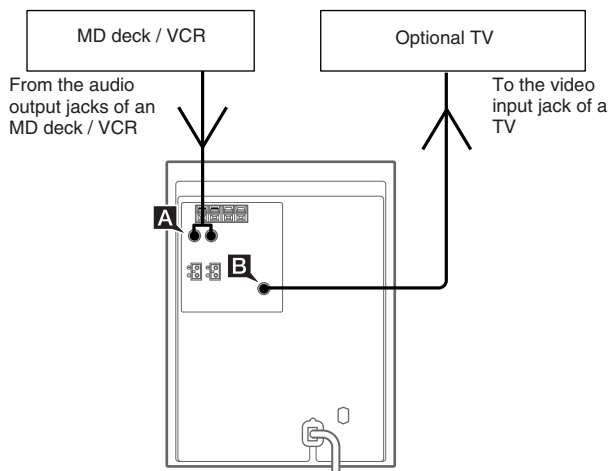
To	Do this
Check the settings/ activate the timer	<ol style="list-style-type: none">1 Press CLOCK/TIMER SELECT on the remote.2 Press ◀◀ or ▶▶ on the remote repeatedly until “DAILY SELECT?” appears, then press ENTER on the remote.
Change the setting	Start over from step 1.
Cancel the timer	<ol style="list-style-type: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

Notes

- You cannot activate the Daily Timer and recording timer at the same time.
- If you use the Daily Timer and the Sleep timer at the same time, the Sleep Timer has priority.
- Do not operate the system from the time the system turns on until the play starts (about 15 seconds before the preset time).
- You cannot use the optional components connected to AUDIO IN MD (VIDEO) jacks as the sound source for Daily Timer.

Hooking up optional components

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



A AUDIO IN MD (VIDEO) jacks

Use audio cords (not supplied) to connect an MD deck or VCR to these jacks. You can then listen to analog audio from the MD deck or VCR through this system.

B VIDEO OUT jack

Use a video cable (supplied) to connect an optional component (such as a TV) to this jack. You can then output the video to the component from this unit, and enjoy the video images of VIDEO CDs, etc.

Listening to audio from a connected component

1 Connect the audio cords.

See “Hooking up optional components” on page 30.

2 Press FUNCTION repeatedly until “MD” or “VIDEO” appears.

Start playing the connected component.

Tip

If you cannot select “VIDEO” by pressing FUNCTION repeatedly, turn off the system, then press I/⏻ while pressing FUNCTION. The function will change from “MD” to “VIDEO”, and “VIDEO” will appear in the display. To change back to “MD”, repeat this procedure.

Note

You cannot perform the above procedure during Power Saving Mode.

Recording audio from a connected component

1 Connect the audio cords.

See “Hooking up optional components” on page 30.

2 Start recording manually.

See “Recording to a tape” on page 21.

Tip

If you cannot select “VIDEO” by pressing FUNCTION repeatedly, turn off the system, then press I/⏻ while pressing FUNCTION. The function will change from “MD” to “VIDEO”, and “VIDEO” will appear in the display. To change back to “MD”, repeat this procedure.

Note

You cannot perform the above procedure during Power Saving Mode.

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.

General

“--:--” lights up in the display.

- A power interruption has occurred. Set the clock (see page 8) and timer settings (see pages 22 and 29) again.

There is no sound.

- Press VOLUME +.
- Make sure the headphones are not connected.
- Check the speaker connections (see page 6).

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

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

There is severe hum or noise.

- Move the system away from the source of noise.
- Connect the system to a different mains.
- Install a noise filter (commercially available) to the mains line.

The timer cannot be set.

- Set the clock again (see page 8).

The timer does not function.

- Press CLOCK/TIMER SELECT on the remote to set the timer and light up “⊙DAILY” or “⊙REC” in the display (see pages 22 and 29).
- Check the timer setting and set the correct time (see pages 22 and 29).
- Cancel the Sleep Timer Function (see 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.

VIDEO CD/CD/MP3 Player

The disc tray does not open and “LOCKED” appears on the front panel display.

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

The disc tray does not close.

- Place the disc correctly in the center of the tray.
- Always close the tray by pressing ▲ CD. 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 ▲ CD to eject the disc.
- Consult your nearest Sony dealer.

Play does not start.

- Open the disc tray and check whether a disc is loaded.
- Wipe the disc clean (see page 35).
- Replace the disc.
- Place the disc correctly in the center of the tray.
- 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 CD ► to start play.

The sound skips.

- Wipe the disc clean (see page 35).
- 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 “SHUFFLE” disappear to return to normal play.
- Resume Play has been selected. When the playback is stopped, press ■, then start VIDEO CD playback (page 16).

There is no picture.

- Check that the player is connected correctly and securely.
 - Make sure you operate the TV correctly.
 - Make sure you set the color system correctly, according to your TV (color) system (see page 7).
 - Press FUNCTION repeatedly until “CD” appears in the display.
-

MP3 files cannot be played back.

- Recording was not performed according to the ISO 9660 level 1 or level 2 format.
 - The file extension “.MP3” is not added to the file name.
 - Files are not stored in MP3 format.
 - Discs containing files other than MPEG 1 Layer-3 will not be played.
 - Files smaller than 64 kbytes will not be played.
-

MP3 files take longer to play back than others.

After the unit read all files on the disc, playback may take more time than usual if:

- the number of folders or files on the disc is very large.
 - the folder and file organization structure is very complicated.
-

The folder title, track title and ID3 tag do not appear correctly.

- The disc was not recorded in conformance with ISO 9660 level 1. Use a disc that conforms with ISO 9660 level 1.
-

The folder title, track title and ID3 tag appear as spaces. The CD TEXT characters appear as spaces.

- This system can display only the ASCII character code correctly. Other characters may appear incorrectly.
-

About ID3 tag version 2

Although not a malfunction, the following occurs when an MP3 file containing ID3 tag ver. 2 is played:

- When skipping a portion of ID3 tag ver. 2 (at the beginning of the track), sound is not output. Skip time changes depending on ID3 tag ver. 2 capacity.
Example: At 64 kbytes, it is about 2 seconds (with RealJukebox*).
 - When skipping a portion of ID3 tag ver. 2, the displayed elapsed playing time is inaccurate. For MP3 files of a bit rate other than 128 kbps, time is not displayed accurately during playback.
 - When an MP3 file is created with MP3 conversion software (ex. RealJukebox*), ID3 tag ver. 2 will automatically be written.
- * “RealJukebox” is a registered trademark of RealNetworks, Inc.
As of December, 2001

Tape Deck

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 (see page 36).
 - The tape has wound to the end.
-

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

- The heads are dirty. Clean them.
 - The record/playback heads are magnetised. Demagnetise them (see page 36).
-

The tape does not erase completely.

- The record/playback heads are magnetised. Demagnetise them (see page 36).
-

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

- The capstans in the tape deck are dirty. Clean them using a cleaning cassette (see page 36).
-

Noise increases or the high frequencies are erased.

- The record/playback heads are magnetised. Demagnetise them (see page 36).
-

continued

Problems and remedies (continued)

Optional components

There is no sound.

- Refer to General item “There is no sound.” on page 32 and check the condition of the system.
 - Connect the component properly (see page 30) while checking:
 - if the cords are connected properly.
 - if the cord plugs are firmly inserted all the way.
 - Turn on the connected component.
-

The sound is distorted.

- Set the volume of the connected component lower.
-

The sound from the component connected to the AUDIO IN MD (VIDEO) jacks is distorted.

- If “VIDEO” appears when you press FUNCTION repeatedly, switch the function to “MD” (see the tip for “Listening to audio from a connected component” on page 31).
-

Tuner

Severe hum or noise/stations cannot be received.

- Set the proper band and frequency (see page 17).
 - Connect the antenna properly (see page 6).
 - 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.
 - Consult your nearest Sony dealer if the supplied AM antenna has come off the plastic stand.
 - Try turning off surrounding electrical equipments.
-

A stereo FM program cannot be received in stereo.

- Press REPEAT/FM MODE until “STEREO” appears in the display.
-

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

- 1** Disconnect the mains lead.
- 2** Reconnect the mains lead.
- 3** Press I/⏻ to turn on the system.
- 4** Press FUNCTION while pressing ● REC and I/⏻.

The system is reset to the factory settings. All the settings you made such as the preset stations, clock, and timer are cleared and must be set again.

Note

You cannot reset the system in Power Saving Mode.

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.

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 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.

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 VCD 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.
- Do not use discs encircled with a protection ring. This may cause a malfunction to the system.
- 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

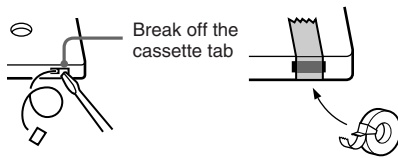
Clean the cabinet, panel and controls with a soft cloth slightly moistened with mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent such as thinner, benzene or alcohol.

continued

Precautions (continued)

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.

Demagnetising the tape heads

Demagnetise 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 demagnetising cassette. For details, refer to the instructions of the demagnetising cassette.

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 once, then turn it on after 15 to 30 minutes.

If color irregularity is observed again...

Place the speakers farther away from the TV set.

Messages

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

VIDEO CD/CD/MP3 files

No Disc

There is no CD in the player.

Cannot Use

You pressed an invalid button.

NO STEP

You have cleared all the tracks you programmed.

OVER

- You have reached the end of the disc while pressing ►► during play or pause.
 - When fast-forwarding an MP3 file, it comes to the end of the file.
-

Push STOP!

You pressed PLAY MODE/TUNING MODE during play.

Step Full!

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

TOC Reading

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

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.

Others

Protect

Consult your nearest Sony dealer.

Specifications

Main Unit (HCD-M80)

Amplifier section

The following measured at 230 V AC, 60 Hz
 DIN power output (rated): 15 + 15 W
 (6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference):
 18 + 18 W
 (6 ohms at 1 kHz, 10% THD)

The following measured at 220 V AC, 60 Hz
 DIN power output (rated): 12 + 12 W
 (6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference):
 15 + 15 W
 (6 ohms at 1 kHz, 10% THD)

Inputs

AUDIO IN MD (VIDEO) (phono jacks):
 Sensitivity 500/250 mV,
 impedance 47 kilohms
 MIC IN (mini jack)
 Sensitivity 1 mV,
 impedance 10 kilohms

Outputs

VIDEO OUT:
 (phono jack) max. output level
 1 V_{p-p}, 75 ohms
 PHONES:
 Accepts headphones with
 an impedance of 8 ohms
 or more
 SPEAKER:
 accepts impedance of 6 to
 16 ohms.

VIDEO CD/CD player section

Laser Semiconductor laser
 ($\lambda=780$ nm)
 Emission duration:
 continuous
 Frequency response 20 Hz – 20 kHz =
 (± 1 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 wire antenna
 Antenna terminals 75 ohms unbalanced
 Intermediate frequency 10.7 MHz

AM tuner section

Tuning range

Middle Eastern and Philippine models:

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

Other models:

531 - 1,602 kHz
 (with the tuning interval
 set at 9 kHz)
 530 - 1,710 kHz
 (with the tuning interval
 set at 10 kHz)

Antenna

AM loop antenna, external
 antenna terminal

Intermediate frequency

450 kHz

Speaker (SS-CM80/W, SS-CM90/S)

Speaker system 2-way, bass-reflex type
 Speaker units
 Woofer: 10 cm dia., cone type
 Tweeter: 2.5 cm dia., balanced
 drive type
 Nominal impedance 6 ohms

continued

Specifications (continued)

General

Power requirements	
Saudi Arabian models:	120 – 127 V or 220 – 240 V AC, 50/60 Hz Adjustable with voltage selector
Thailand model:	220 V AC, 50/60 Hz
Other models:	110 – 120 V or 220 – 240 V AC, 50/60 Hz Adjustable with voltage selector
Power consumption	See the nameplate
Dimensions (w/h/d) incl. projecting parts and controls	
Amplifier/Tuner/Tape/CD section:	Approx. 159 × 217 × 335 mm
Speaker:	Approx. 140 × 217 × 226 mm
Mass	
Amplifier/Tuner/Tape/CD section:	Approx. 5.2 kg
Speakers:	Approx. 2.4 kg net per speaker
Supplied accessories	Remote (1) R6 (size AA) batteries (2) AM loop antenna (1) FM lead antenna (1) Video cable (1)

Design and specifications are subject to change without notice.

Glossary

Auto Pause

An automatically 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 CD ► 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 (Version 2.0) to control playback.

By using menu screens recorded on VIDEO CDs with PBC functions, you can enjoy playing simple interactive software, software with search functions, and so on.

When you select a VIDEO CD with PBC functions on this player, the PBC indicator lights up.

Track

Sections of a picture or a music piece on a CD or VIDEO CD. Each track is assigned a track number enabling you to locate the track you want.

VIDEO CD

A compact disc that contains moving pictures. The picture data uses the MPEG 1 format, one of the worldwide standards of 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 (VIDEO CDs without PBC functions):
You can play only moving pictures and sounds.
- Version 2.0 (VIDEO CDs with PBC functions):
You can play still pictures and enjoy PBC functions.

This system conforms to both versions.

