

Micro Hi-Fi Component System

Operating Instructions



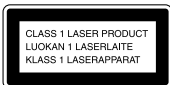
CMT-VP100

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. The CLASS 1 LASER PRODUCT MARKING 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 vases on the apparatus.



Don't throw a battery, dispose it as the injurious wastes.

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. |

Note 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 = Play Back Control

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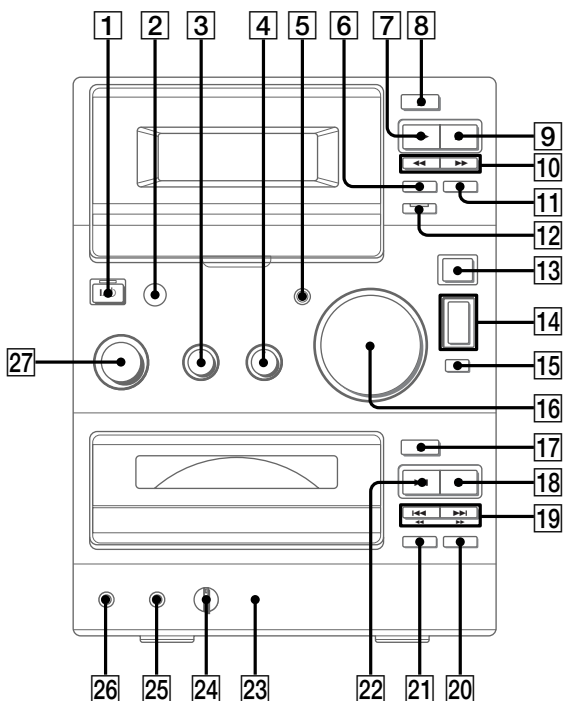
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The items are arranged in alphabetical order.

Refer to the pages indicated in parentheses () for details.

Main unit



BASS **3** (20)
 CD EJECT **▲ 17** (9~11)
 CD SYNC **12** (17, 18)
 CD **▶▶ 22** (9~13, 28)
 CD **■ 18** (9~13, 26)
 CD **◀◀/▶▶ 19** (10~12)
 CD **◀◀/▶▶ 19** (10, 11)
 DSG **5** (20, 23)
 FUNCTION **27** (9, 11, 12, 14, 16, 17, 23)
 MIC IN jack **25** (20)
 MIC VOL **24** (20)

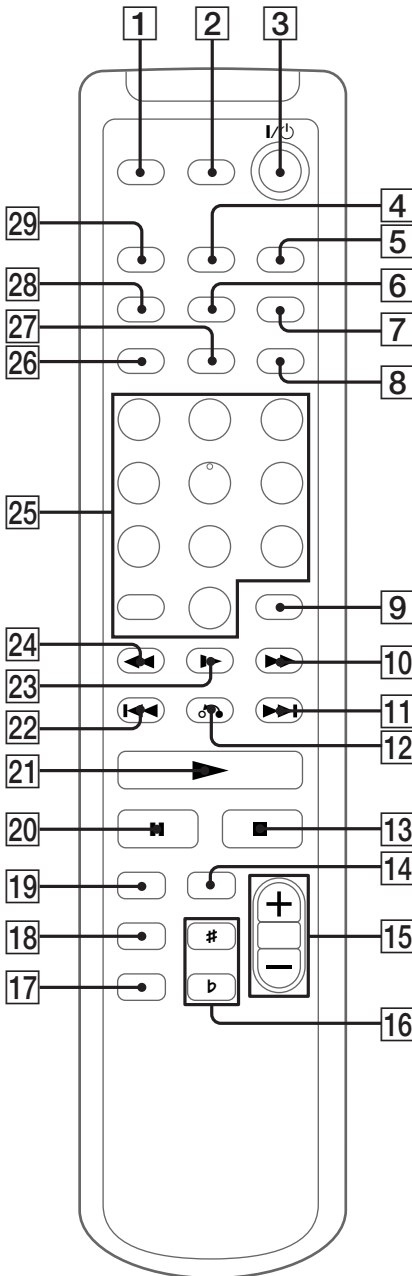
PBC indicator **23** (10, 28)
 PHONES jack **26**
 PLAY MODE **21** (9, 11, 12, 18)
 Remote sensor **2**
 REPEAT **20** (10, 11)
 TAPE EJECT **▲ 8** (16)
 TAPE REC **● 6** (17)
 TAPE **◀◀ 7** (16~18)
 TAPE **|| 11** (16~18)
 TAPE **■ 9** (16~18, 26)
 TAPE **◀◀/▶▶ 10** (16)

TREBLE **4** (20)
 TUNER BAND **13** (14, 26)
 TUNING MODE **15** (14, 15)
 TUNING +/- **14** (14, 15)
 VOLUME **16** (21)

BUTTON DESCRIPTIONS

I (power) **1** (7, 14, 18, 21, 23)

Remote Control



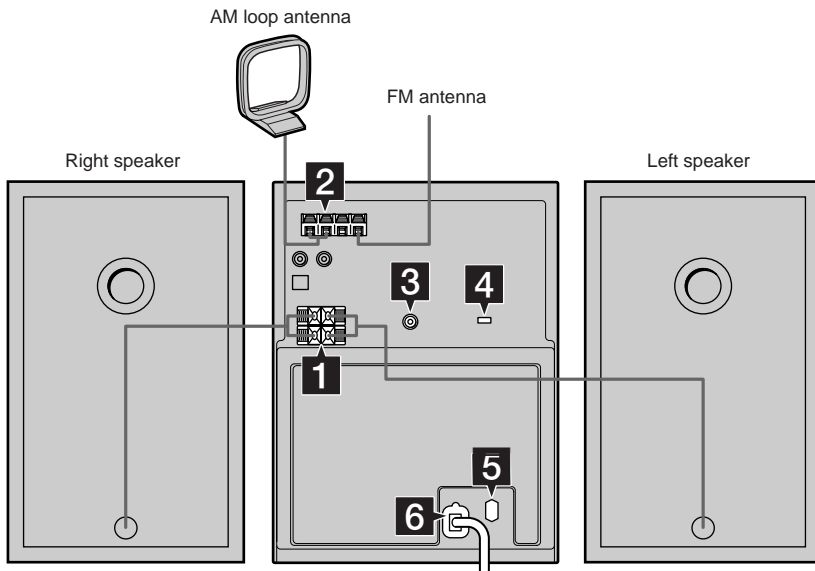
- CD **19** (9, 11)
- CLOCK/TIMER SELECT **4**
(19, 22)
- CLOCK/TIMER SET **5** (8, 18, 21)
- DIR MODE **26** (16~18)
- DISPLAY **27** (12)
- ENTER **8** (8, 14, 18, 21)
- FUNCTION **17** (9, 11, 12, 14, 16, 17, 23)
- KEY CONTROL #/b **16** (20)
- K.PON/MPX **9** (20)
- MEMORY **28** (14)
- NEXT **11** (10)
- Numeric buttons **25** (10, 11)
- ON SCREEN **7** (13)
- PREV **22** (10)
- RETURN ↵ **12** (10)
- SLEEP **29** (21)
- SLOW ▶▶ **23** (9)
- STEREO/MONO **6** (15)
- TAPE **18** (16)
- TUNER BAND **14** (14)
- TV/VIDEO **1** (7)
- TV I/⏻ **2** (7)
- VOLUME +/- **15** (21)

BUTTON DESCRIPTIONS

- ▶▶ **21** (9~13, 16~18, 28)
- || **20** (9, 11, 16~18)
- **13** (9~13, 16~18)
- ◀◀ **22** (10~12)
- ▶▶ **11** (10~12)
- ◀◀ **24** (10, 11, 14~16)
- ▶▶ **10** (10, 11, 14~16)
- I/⏻ (power) **3** (7, 14, 18, 21)
- + **11** (8, 14, 18, 21)
- **22** (8, 14, 18, 21)

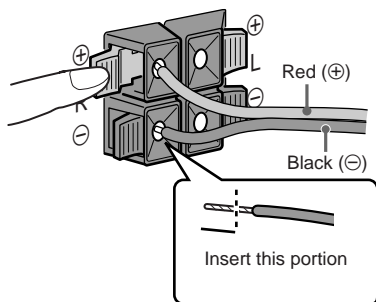
Hooking up the system

Follow steps **1** through **6** of the procedure below to hook up your system using the supplied cords and accessories.



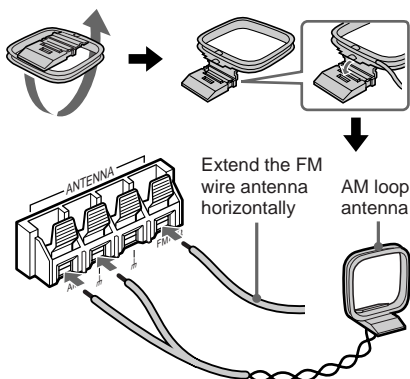
1 Connect the speakers.

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

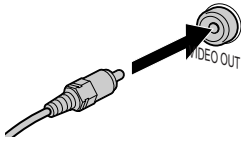


2 Connect the FM and AM antennas.

Set the AM loop antenna up before connecting it.



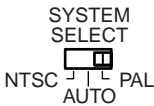
- 3** Connect the VIDEO OUT jack to the video input jack on your TV with the supplied video connecting cord.



When using a TV

Turn on your TV and set the input selector to video input so you can view the pictures from the system.

- 4** Set SYSTEM SELECT (color system) to PAL or NTSC depending on the color system of your TV.



| The color system of your TV | Set SYSTEM SELECT to |
|--|----------------------|
| AUTO (if your TV automatically changes the color system according to the input signal) | AUTO. |
| NTSC | NTSC. |
| PAL (the factory setting) | PAL. |

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


110V-120V



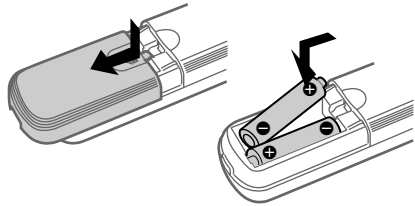
220V-240V
VOLTAGE
SELECTOR

- 6** 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 .

Inserting two size-AA (R6) batteries into the remote control



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 prevent possible damage from battery leakage and corrosion.

Using the remote

You can operate a Sony TV set.

| To | Press |
|-----------------------------|--|
| Turn the TV on or off | TV  . |
| Switch the TV's video input | TV/VIDEO. |

Setting the time

- 1 Turn on the system.**
- 2 Press CLOCK/TIMER SET on the remote.**
If you are setting the clock for the first time, go to step 5.
- 3 Press +/- on the remote repeatedly until "SET CLOCK" appears in the display.**
- 4 Press ENTER on the remote.**
The hour indication flashes.
- 5 Press +/- on the remote repeatedly to set the hour.**
- 6 Press ENTER on the remote.**
The minute indication flashes.
- 7 Press +/- on the remote repeatedly to set the minute.**
- 8 Press ENTER on the remote.**
The clock will begin operating.

To reset the system clock

Start over from step 1.

Loading the disc

1 Press CD EJECT ▲.

The disc tray slides out.

2 Load a disc onto the disc tray.

Load with the label side up. When you play a CD/VIDEO CD single (8 cm CD/VIDEO CD), load it onto the inner circle of the tray.



3 Press CD EJECT ▲ again to close the disc tray.

Notes

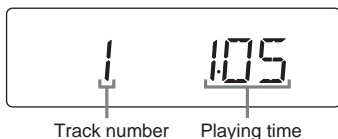
- The disc cannot be viewed through the front window when a CD/VIDEO CD single (8 cm CD/VIDEO CD) is loaded.
- The characters printed on the disc appear upside down when viewed through the front window.

Playing the 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).

You can enjoy two kinds of playback according to the disc type. The PBC functions of VIDEO CD (Ver. 2.0) are disabled during Shuffle and Repeat Play.



1 Turn on your TV and select the video input.

2 Turn **FUNCTION** (or press **FUNCTION** on the remote repeatedly) until “CD” appears in the display.

The indicator surrounding the CD ►|| and CD ■ buttons lights up.

You can switch the function to CD by pressing the CD button on the remote.

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

| Select | To play |
|------------|--|
| No display | The VIDEO CD in original order. |
| SHUFFLE | The tracks on the VIDEO CD in random order. |
| PGM | The tracks on the VIDEO CD in any order that you want (see “Programming the CD/VIDEO CD tracks” on page 11). |

4 Press CD ►|| (or ► on the remote).

Other Operations

| To | Do this |
|---------------|---|
| Stop playback | Press CD ■. |
| Pause | Press CD ► (or on the remote). ^{*1} Press again to resume playback. |
| Slow playback | Press SLOW ► on the remote repeatedly. The playback speed changes as follows: 1/2 → 1/4 → 1/8 → 1/2 → |

continued

Playing the VIDEO CD (continued)

| To | Do this |
|---|--|
| Select a track or scene* ² | Press CD ◀◀/▶▶ repeatedly until you find the desired track or scene. |
| Find a point in a track or scene (Lock Search Function) | <p>During playback, press and hold down CD ◀◀/▶▶ until the system starts searching.</p> <p>① Press once to start searching.</p> <p>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) → ...</p> <p>③ Press CD ▶▶ (or ▶ on the remote) to stop searching at the desired point.</p> |
| Remove the VIDEO CD | Press CD EJECT ▲. |
| Play repeatedly (Repeat Play) | <p>Press REPEAT repeatedly during playback until “REPEAT” or “REPEAT 1” appears in the display.</p> <p>REPEAT: For all the tracks on the VIDEO CD.</p> <p>REPEAT 1: For only the currently playing track.</p> <p>To cancel playing repeatedly, press REPEAT repeatedly until “REPEAT” and “REPEAT 1” disappear from the display.</p> |

*¹ The video image may be somewhat unstable.

*² Except during PBC playback of a VIDEO CD with PBC functions (Ver. 2.0). See this page for details on PBC playback.

Playing a VIDEO CD 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 will differ with each disc.

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

The PBC indicator lights up and a PBC menu appears on your TV.


The indicator lights up during PBC playback of a VIDEO CD with PBC functions (Ver. 2.0). When the PBC functions are not used (see below), the indicator goes off.

2 Press the numeric button(s) on the remote to select the number that you want from the menu.

3 Follow the menu instructions to enjoy interactive playback.

| To | Do this |
|--|--|
| Stop playback | Press CD ■. |
| Go to the next scene or track | Press NEXT on the remote. |
| Go back to the preceding scene or track | Press PREV on the remote. |
| Go back to a previous menu | Press RETURN ↵ on the remote. |
| To cancel PBC Playback of a VIDEO CD with PBC functions (Ver. 2.0) | <ul style="list-style-type: none"> • Before you start playing, select the track you want using CD ◀◀/▶▶, then press CD ▶▶ (or ▶ on the remote). • Before you start playing, select the track number using the numeric buttons on the remote. <p>The PBC indicator goes off and playback begins from the selected track. Still images, such as the menu screens, will not be shown.</p> |

Tip

When  appears on the TV screen, you have pressed an invalid button.

To enter numbers over 10 (on the remote only)

- 1 Press >10.
 - 2 Enter the corresponding digits.
- To enter 0, press 10/0 instead.

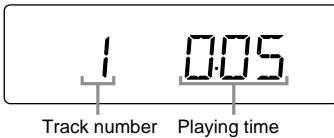
Example:

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



Playing the CD

— Normal Play/Shuffle Play/Repeat Play

This system lets you play CDs in different play modes.



- 1 Turn **FUNCTION** (or press **FUNCTION** on the remote repeatedly) until “CD” appears in the display.

The indicator surrounding the CD  and CD  buttons lights up.











You can switch the function to CD by pressing the CD button on the remote.

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

| Select | To play |
|------------|--|
| No display | The CD in original order. |
| SHUFFLE | The tracks on the CD in random order. |
| PGM | The tracks on the CD in any order that you want (see “Programming the CD/VIDEO CD tracks” on this page). |

- 3 Press CD  (or  on the remote).

Other Operations

| To | Do this |
|--|--|
| Stop playback | Press CD  . |
| Pause | Press CD  (or  on the remote). Press again to resume playback. |
| Select a track | During playback or pause, press CD  /  repeatedly until you find the desired track. |
| Find a point in a track (Lock Search Function) | During playback, press and hold down CD  /  until the system starts searching. Press CD  (or  on the remote) to stop searching at the desired point. |
| Remove the CD | Press CD EJECT  . |
| 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 CD. REPEAT 1: For only the currently playing track. To cancel playing repeatedly, press REPEAT repeatedly until “REPEAT” and “REPEAT 1” disappear from the display. |

Programming the CD/VIDEO CD tracks

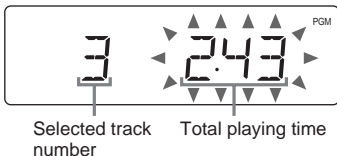
— Program Play

You can make a program of up to 20 tracks on a CD/VIDEO CD in any order that you want. The PBC functions of VIDEO CD (Ver. 2.0) are disabled during Program play.

continued

Programming the CD/VIDEO CD tracks (continued)

- 1 Turn **FUNCTION** (or press **FUNCTION** on the remote repeatedly) until “**CD**” appears in the display.
- 2 Press **PLAY MODE** repeatedly until “**PGM**” appears in the display.
- 3 Press **CD** **◀◀/▶▶** repeatedly until the desired track number appears in the display.



- 4 Press **PLAY MODE**.
The selected track is programmed.
The selection number appears in the display.
- 5 To program additional tracks, repeat steps 3 and 4.
- 6 Press **CD** **▶||** (or **▶** on the remote).

| To | Do this |
|---------------------------------------|---|
| Cancel Program Play | Press PLAY MODE repeatedly until “ PGM ” disappears from the display. |
| Add a track to the end of the program | Do steps 3 and 4 with Program Play stopped. |
| Erase the entire program | Press CD ■ with Program Play stopped. |

Tips

- The program you made remains after Program Play finishes. To play the program again, switch the function to CD, and then press **CD** **▶||** (or **▶** on the remote).
- “--:--” appears in the display when the total program time exceeds 100 minutes.

Using the VIDEO CD/CD display

Press **DISPLAY** on the remote repeatedly.

The display changes as follows:

During normal playback

Current track number and elapsed playing time of the track → Current track number and remaining playing time of the track → Remaining playing time of the entire CD/VIDEO CD → Clock display → Current track number and elapsed playing time of the track →

(VIDEO CD with PBC functions (Ver. 2.0))

Elapsed playing time of the current track* ↔ Clock display

* This may not appear when displaying still images, etc.

While the VIDEO CD/CD is stopped

Total number of tracks and total playing time → Clock display → Current source display → Total number of tracks and total playing time →

Note

If the CD/VIDEO CD contains 21 tracks or more, the remaining playing time of the current track will appear as “--:--” for each track starting with the 21st.

Using the on-screen display

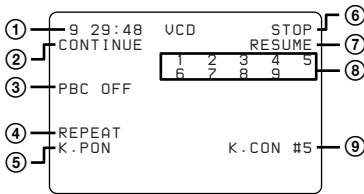
You can check the current operating status and disc information for VIDEO CDs and audio CDs while the VIDEO CD/CD is playing or stopped.

Press **ON SCREEN** on the remote.

The on-screen display changes as follows:

ON SCREEN ON ↔ **ON SCREEN OFF**

ON SCREEN ON display



①

| When | The display shows |
|----------------------------|--|
| The VIDEO CD/CD is stopped | Total number of tracks and total playing time of disc |
| The VIDEO CD/CD is playing | Current track number and elapsed playing time of the track |

② Play mode*

* In Program Play, the selection number and programmed track number appears below.

③ "PBC ON"*, "PBC OFF" or no display

* "PBC ON"* is displayed for a VIDEO CD with PBC functions.

④ "REPEAT", "REPEAT 1" or no display

⑤ Karaoke effect status

⑥

| When | The display shows |
|----------------------------|-------------------|
| The VIDEO CD/CD is stopped | STOP |
| The VIDEO CD/CD is playing | PLAY |

⑦ "RESUME" or no display

⑧ Music calendar* or no display

* Track numbers disappear from the music calendar after they are played.

When the PBC functions are not used, the music calendar appears only while the VIDEO CD is stopped.

⑨ Key control (b 8 ~ 0 ~ # 8) or no display

Tip

Depending on the condition, some items are displayed, while others are not.

Resuming VIDEO CD playback from the point last stopped at

— Resume Play

This function cannot be used with an audio CD.

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

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

2 Press CD ►► (or ► on the remote).

To view from the beginning of the VIDEO CD

When "RESUME" appears in the display, press CD ■, then press CD ►► (or ► on the remote).

Notes

- Resume Play is not available in Shuffle or Program Play, or during PBC playback of a VIDEO CD with PBC functions (Ver. 2.0).
- Depending on where you stopped the VIDEO CD, the system may resume playback from a different point.
- Resume Play is cancelled when:
 - you press a numeric button on the remote, PLAY MODE, or CD ■.
 - you remove the VIDEO CD.
 - you disconnect the power cord.
 - you turn off the system.

Presetting radio stations

The system can store a total of 30 preset stations (20 for FM and 10 for AM).

- 1 Turn **FUNCTION** (or press **FUNCTION** on the remote repeatedly) until **“TUNER”** appears in the display.

The indicator surrounding the TUNER BAND button lights up.

- 2 Press **TUNER BAND** to select FM or AM.

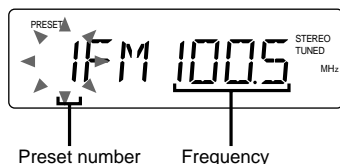
- 3 Press **TUNING MODE** repeatedly until **“AUTO”** appears in the display.

- 4 Press **TUNING +/-** (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.

- 5 Press **MEMORY** on the remote.

A preset number flashes.



- 6 Press **+/-** on the remote repeatedly to select the preset number that you want.

- 7 Press **ENTER** on the remote.

The station is stored to the selected preset number.

- 8 Repeat steps 2 through 7 to preset other stations.

To tune in a weak station

In step 3, press TUNING MODE repeatedly until **“AUTO”** and **“PRESET”** disappear from the display, then press TUNING +/- (or **◀◀/▶▶** on the remote) repeatedly to tune in the station.

To change the preset number

Start over from step 2.

Tip

The preset stations are saved in the system's memory for about a day even if you disconnect the power cord or a power failure occurs.

To change the AM tuning interval (not applicable on the Middle Eastern and Philippine models)

The AM tuning interval is factory-preset to 9 kHz. To switch the AM tuning interval, tune in any AM station first, then turn off the system. Pressing and holding down TUNING +, turn the system back on. When you change the interval, all the AM preset stations are erased. To change back to the original interval, tune in any AM station first, then turn off the system. Pressing and holding down TUNING -, turn the system back on.

Listening to the radio

— Preset Tuning

Presetting radio stations in the system's memory in advance make it easy to tune in those stations later (see "Presetting radio stations" on this page).

- 1 Turn **FUNCTION** (or press **FUNCTION** on the remote repeatedly) until **“TUNER”** appears in the display.

- 2 Press **TUNER BAND** to select FM or AM.

- 3 Press **TUNING MODE** repeatedly until **“PRESET”** appears in the display.

- 4 Press **TUNING +/-** (or **◀◀/▶▶** on the remote) repeatedly to display the preset number of the desired station.

To turn off the radio

Press **I/O**.

To tune in a non-preset radio station

In step 3, press TUNING MODE repeatedly until “AUTO” and “PRESET” disappear from the display, then press TUNING +/- (or ◀▶/▶▶ on the remote) repeatedly to tune in the desired station (Manual Tuning).

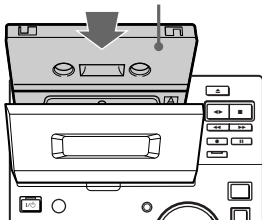
Tips

- If there is static during an FM broadcast, press STEREO/MONO on the remote until “MONO” appears in the display. After “MONO” scrolls across the display, the frequency will appear. The broadcast will no longer be in stereo, but the reception will improve.
- To improve the reception, adjust the supplied antennas or connect an external antenna.

Loading a tape

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

With the side you want to play/record on facing towards you



Playing a tape

You can use Type I (normal) tape.

- 1 Load a recorded tape into the cassette holder.
- 2 Turn **FUNCTION** (or press **FUNCTION** on the remote repeatedly) until **"TAPE"** appears in the display.

The indicator surrounding the **TAPE** ◀▶ and **TAPE** ■ buttons lights up.

You can switch the function to **TAPE** by pressing the **TAPE** button on the remote.

- 3 Press **DIR MODE** on the remote repeatedly to select **"↔"** to play one side of the tape, **"↔↔"** to play both sides, or **"(↔)"*** to play both sides repeatedly.

* The tape automatically stops after playing back five times.

- 4 Press **TAPE** ◀▶ (or ▶ on the remote). Press **TAPE** ◀▶ (or ▶ on the remote) again to play the reverse side. The tape starts playing back.

Other Operations

| To | Do this |
|------------------------|---|
| Stop playback | Press TAPE ■. |
| Pause | Press TAPE ■■. Press again to resume playback. |
| Fast-forward or rewind | With the tape stopped, press TAPE ◀◀/▶▶. |
| Remove the tape | Press TAPE EJECT ▲. |

Recording to a tape

— CD Synchro Recording/Recording Manually/Program Edit

You can record from a CD/VIDEO CD, radio or any of the connected components. You can use Type I (normal) tape.

| Steps | Recording from a CD/VIDEO CD (CD Synchro Recording) | Recording manually |
|-------|--|--|
| 1 | Load a recordable tape into the cassette holder. | |
| 2 | Load a disc onto the disc tray. | Turn FUNCTION (or press FUNCTION on the remote repeatedly) to select the source you want to record from. |
| 3 | Turn FUNCTION (or press FUNCTION on the remote repeatedly) until "CD" appears in the display. | Load a disc or tune in the desired station. |
| 4 | Press CD SYNC. | Press TAPE REC ●. |
| | <p>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."</p> | |
| 5 | Press DIR MODE on the remote repeatedly to select "↔" to record on one side of the tape, or "↔)" or "(↔)" to record on both sides. | |
| 6 | Press TAPE ■. | Press TAPE ■, and then start playing the desired source. |

To stop recording

Press TAPE ■.

Tip

For recording manually:

To pause recording, press TAPE ■.

continued

Recording to a tape (continued)

Recording CD/VIDEO CD tracks in your favorite order

— Program Edit

The PBC functions of VIDEO CD (Ver. 2.0) are disabled during Program Edit.

- 1 Load a recordable tape into the cassette holder.
- 2 Load a disc onto the disc tray.
- 3 Do steps 1 through 5 in Program Play (see page 11).
- 4 Press **CD SYNC**.
The tape stands by for recording and the VIDEO CD/CD stands by for playback. “REC” and “▶” (or “◀”) appear, and the CD SYNC indicator lights up.
To start recording on the side facing away from you, press TAPE ◀▶ (or ▶ on the remote) until “REC▶” changes to “◀REC.”
- 5 Press **DIR MODE** on the remote repeatedly to select “↔” to record on one side of the tape, or “↔)” or “(↔)” to record on both sides.
- 6 Press **TAPE III**.

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

Timer-recording radio programs

To timer-record, make sure that you have set the system clock correctly (see “Setting the time” on page 8) and preset the radio station (see “Presetting radio stations” on page 14).

- 1 Tune in the desired preset radio station (see “Listening to the radio” on page 14).
- 2 Load a recordable tape.
- 3 Press **CLOCK/TIMER SET** on the remote.
- 4 Press **+/-** on the remote repeatedly until “SET REC” appears in the display. “SET REC” scrolls and “⊖ REC” appears in the display.
- 5 Press **ENTER** on the remote. “ON TIME” appears, then the hour indication flashes.
- 6 Set the starting time.
Press +/- on the remote repeatedly to set the hour, then press ENTER on the remote. The minute indication begins flashing next. Press +/- on the remote repeatedly to set the minute, then press ENTER on the remote. “OFF TIME” appears, then the hour indication flashes again.
- 7 Set the stopping time by repeating step 6.
The start time, the stopping time, “TUNER”, and the preset station appear in turn, then the original display returns.
- 8 Press **I/O** to turn off the system.
When the recording starts, the volume level is automatically set to the minimum.

| To | Do this |
|--------------------|--|
| Check the settings | Press CLOCK/TIMER SELECT on the remote repeatedly until “⊖ REC” appears in the display. The preset items appear in turn. |
| Turn off the timer | Press CLOCK/TIMER SELECT on the remote repeatedly until “⊖ REC” disappears from the display. |

Tip

Once you set the timer, the time settings will remain in the system's memory until you change them, even when you turn the system or the timer off. The settings that were last used will be in effect when you turn the timer on again.

Notes

- The system will turn on 15 seconds before the specified starting time.
- If the system is turned on at the specified starting time, recording will not occur.
- When you have set the Sleep Timer, the timer recording will not operate until the Sleep Timer Function is turned off.

Adjusting the sound

*Generating a more dynamic sound
(Dynamic Sound Generator)*

Press DSG.

To cancel the DSG, press DSG again.

Adjusting the bass

Turn BASS.

You can adjust the bass in 7 steps.

Adjusting the treble

Turn TREBLE.

You can adjust the treble in 7 steps.

Singing along: Karaoke

Do the procedure below to suppress the singer's voice on any stereo CD/VIDEO CD in order to sing along.

- 1 Turn MIC VOL to 0 to turn down the microphone volume level.**
- 2 Connect an optional microphone to MIC IN.**
- 3 Press K.PON/MPX on the remote repeatedly to obtain the karaoke effect you want.**
The display changes as follows:
K_PON → MPX R → MPX L →
STEREO → K_PON →
To use the Karaoke Function, choose "K_PON" (KARAOKE PON); choose "MPX R" or "MPX L" for multiplexed CDs/VIDEO CDs.
- 4 Start playing the music.**
- 5 Adjust the microphone volume by turning MIC VOL.**

| To | Do this |
|-----------------------------|--|
| Cancel the Karaoke Function | Turn MIC VOL to 0 and disconnect the microphone from MIC IN, then press K.PON/MPX on the remote repeatedly until "STEREO" appears. |
| Adjust the key | Press KEY CONTROL #/b on the remote repeatedly. You can adjust the key in 17 steps. |

Note

With some songs, the volume of vocals may not be suppressed when you select "K_PON".

Falling asleep to music

— Sleep Timer

The Sleep Timer Function lets you specify a sleep time, after which the system stops playing and turns off automatically. You can thus fall asleep to music.

Press SLEEP on the remote repeatedly.

The sleep time changes as follows:

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

* The system turns off after the current CD/VIDEO CD or tape finishes playing (up to 100 minutes). The system also turns off when you manually stop the VIDEO CD/CD or tape.

| To | Press |
|---------------------------------|---|
| Check the remaining sleep time | SLEEP on the remote once. |
| Change the sleep time | SLEEP on the remote repeatedly until the time you want appears. |
| Cancel the Sleep Timer Function | SLEEP on the remote repeatedly until "OFF" appears. |

Waking up to music

— Daily Timer

By setting the Daily Timer, you can make the system automatically turn on and off at specified times. To use this function, make sure that you have set the system clock correctly (see "Setting the time" on page 8).

1 Prepare the music source you want to listen to when the system turns on.

- CD/VIDEO CD: Load a disc.
- Tape: Load a tape with the side you want to play facing towards you.
- Radio: Tune in the preset radio station that you want (see "Listening to the radio" on page 14).

2 Adjust the volume.

3 Press CLOCK/TIMER SET on the remote.

4 Press +/- on the remote repeatedly until "SET DAILY" appears in the display.

"SET DAILY" scrolls and "⌚ DAILY" appears in the display.

5 Press ENTER on the remote.

"ON TIME" appears, then the hour indication flashes.

6 Set the starting time.

Press +/- on the remote repeatedly to set the hour, then press ENTER on the remote.

The minute indication begins flashing next.

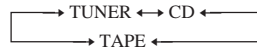
Press +/- on the remote repeatedly to set the minute, then press ENTER on the remote.

"OFF TIME" appears, then the hour indication flashes again.

7 Set the stopping time by repeating step 6.

8 Press +/- on the remote repeatedly until the music source you want appears.

The display changes as follows:



9 Press ENTER on the remote.

The starting time, the stopping time, and the music source appear in turn, then the original display returns.

10 Press I/⏻ to turn off the system.

continued

Waking up to music (continued)

| To | Do this |
|--------------------|--|
| Check the settings | Press CLOCK/TIMER SELECT on the remote repeatedly until “☹ DAILY” appears in the display. The preset items appear in turn. |
| Turn off the timer | Press CLOCK/TIMER SELECT on the remote repeatedly until “☹ DAILY” disappears from the display. |

Tip

Once you set the timer, the time settings will remain in the system’s memory until you change them, even when you turn the system or the timer off. The settings that were last used will be in effect when you turn the timer on again.

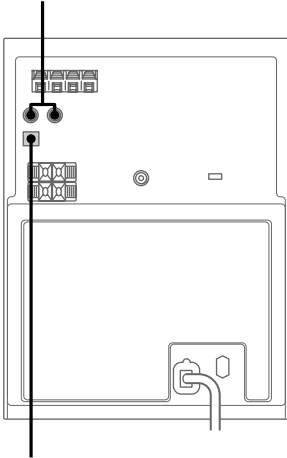
Notes

- The system will turn on 15 seconds before the specified starting time.
- When you have set the Sleep Timer, the Daily Timer will not operate until the Sleep Timer Function is turned off.

Hooking up the optional components

You can connect a variety of components to your system in order to enhance it. Make sure that the color of the plugs matches that of the connectors.

To the audio output jacks
on your MD deck/VCR



To the digital input connector
on your MD deck*

* If the jack is covered with a cap, remove it before use.

Note

You cannot make a digital recording from a VIDEO CD to an MD deck through the optical cable.

Tip

If you cannot select “VIDEO” by turning FUNCTION (or press FUNCTION on the remote repeatedly), press **I/⏪** while pressing down DSG in standby mode. The function will change from “MD” to “VIDEO”, and “VIDEO” will appear in the display. To change back to “MD”, repeat this procedure.

| To | Do This |
|--|--|
| Make a digital recording from CD to MD | Connect the optical cable. |
| Listen to the connected MD deck | Turn FUNCTION (or press FUNCTION on the remote repeatedly) until “MD” appears in the display. |
| Listen to the connected VCR | Turn FUNCTION (or press FUNCTION on the remote repeatedly) until “VIDEO” appears in the display. |

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 will not 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 unit heats up during operation, this is not a malfunction.
- Place the system in a location with adequate ventilation to prevent heat build-up in the system.

If you continuously use this system at a large volume, the cabinet temperature of the top, side and bottom rises considerably. To avoid burning yourself, do not touch the cabinet.

To prevent a malfunction, do not cover the ventilation hole for the cooling fan.

On operation

- If the system is brought directly from a cold place to a warm place, or is placed in a very damp room, moisture may condense on the lens inside the VIDEO CD/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 moving the unit, remove any disc that may be on the disc tray.

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

Notes on CDs/VIDEO CDs

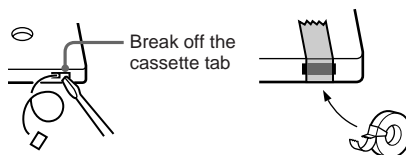
- Before playing a disc, clean the disc surface with a cleaning cloth. Wipe the disc from the center out.
- Do not play a disc with tape, stickers, or adhesives on any of its surfaces as this may damage the system.
- Do not use solvents.
- Do not expose the discs to direct sunlight or heat sources.
- Discs with non-standard shapes (e.g., heart, square, star) cannot be played on this system. Attempting to do so may damage the system. 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 tabs from side A or side 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 tape deck's playing mechanism 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 etc. too frequently. The tape may get entangled in the tape deck's playing mechanism.

Cleaning the tape heads

Clean the tape heads after every 10 hours of use. Make sure to clean the tape heads before making an important recording or after playing an old tape. Use a commercially available 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 commercially available demagnetizing cassette. For details, refer to the instructions of the demagnetizing 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.

Troubleshooting

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

There is no sound from the speakers.

- Adjust the volume.
- The headphones are connected.
- Check the speaker connections.

There is severe hum or noise.

- A TV or VCR is placed too close to the unit. Move the unit away from the TV or VCR.

“AM 12:00” flashes in the display.

- A power interruption has occurred. Set the clock (see page 8) and timer settings (see pages 18 and 21) again.

The timer does not function.

- Make sure the clock is correctly set (see page 8).
- You cannot operate the Daily Timer and the timer recording at the same time.

“☹ DAILY” and “☹ REC” do not appear when you press CLOCK/TIMER SELECT on the remote.

- Make sure each timer is correctly set (see pages 18 and 21).
- Make sure the clock is correctly set (see page 8).

The color on the TV screen is irregular.

- Move the speakers farther away from the TV set.

The remote does not work.

- There is an obstacle between the remote and the unit.
- You are not pointing the remote in the direction of the system's sensor.
- The batteries in the remote have run down. Replace the batteries.
- Make sure that the batteries are inserted correctly.

Speakers

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

- Check the speaker connections and placement.

continued

Troubleshooting (continued)

VIDEO CD/CD Player

There is no picture.

- Check that the system is connected securely.
 - Make sure that you have operated the TV correctly.
 - Make sure that you have set the SYSTEM SELECT to proper setting for the color system of your TV.
 - Turn FUNCTION to switch to the VIDEO CD/CD function.
-

The VIDEO CD/CD will not play.

- The disc is dirty.
 - The surface of the disc is scratched. Replace the disc.
 - The disc is not loaded properly.
 - The disc is loaded with the label side down.
 - Condensation has built up in the system. Remove the disc and leave the system turned on for about an hour until the moisture evaporates.
-

Play does not start from the first track.

- The player is in Program or Shuffle Play. Press PLAY MODE repeatedly until "PGM" and "SHUFFLE" disappear.
-

Tape Deck

Recording cannot be done.

- There is no tape in the cassette holder.
 - The record protect tab has been removed from the cassette (see page 24).
 - The tape has come to the end.
-

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

- The heads are dirty. Clean them (see page 25).
 - The record/playback heads are magnetized. Demagnetize them (see page 25).
-

The tape does not erase completely.

- The record/playback heads are magnetized. Demagnetize them (see page 25).
-

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

- The capstans or pinch rollers are dirty. Clean them (see page 25).
-

Noise increases or the high frequencies are missing.

- The record/playback heads are magnetized. Demagnetize them (see page 25).
-

Tuner

There is a severe hum or noise ("TUNED" or "STEREO" flashes).

- Adjust the antenna.
 - The signal strength is too weak. Connect an external antenna.
 - Make sure that the antenna is connected properly.
 - Do not bend or roll up the antenna.
 - The two wires comprising the FM antenna have been pulled further apart since the system was first purchased. Repair or replace with a new one.
 - The AM antenna wire is detached from the stand.
 - Keep the antennas as far away from the speaker cords as possible.
-

A stereo FM program cannot be received in stereo.

- Press STEREO/MONO on the remote until "STEREO" appears in the display.
-

Resetting the system

With the system turned on, press TAPE ■, CD ■ and TUNER BAND at the same time.

The system is reset to the factory settings. All previous settings are cleared and must be set again.

Messages

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

NO DISC

- There is no disc on the disc tray.
-

PGM FULL

- You try to program 21 tracks or more.
-

Specifications

Amplifier section

The following measured at 230 V AC, 60 Hz
 DIN power output (rated): 27 + 27 W
 (6 ohms at 1 kHz, DIN)
 Continuous RMS power output (reference):
 32 + 32 W
 (6 ohms at 1 kHz, 10% THD)
 The following measured at 220 V AC, 60 Hz
 DIN power output (rated): 23 + 23 W
 (6 ohms at 1 kHz, DIN)
 Continuous RMS power output (reference):
 26 + 26 W
 (6 ohms at 1 kHz, 10% THD)

Inputs

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

Outputs

OPTICAL DIGITAL OUT (CD):
 Optical
 VIDEO OUT (phono jack):
 max. output level 1 Vp-p,
 unbalanced, Sync
 negative, load impedance
 75 ohms
 PHONES (stereo minijack):
 Accepts headphones with
 an impedance of 8 ohms
 or more

VIDEO CD/CD player section

System Compact disc and digital
 audio and video system
 Laser Semiconductor laser
 ($\lambda = 780$ nm)
 Emission
 duration: continuous
 Wavelength 780 - 790 nm
 Video color system format
 NTSC, PAL

OPTICAL DIGITAL OUT (CD)
 (Square optical connector jack, rear panel)
 Wavelength 660 nm
 Output Level -18 dBm

Tape player section

Recording system 4-track 2-channel stereo
 Frequency response 50 - 13,000 Hz (± 3 dB),
 using a Sony TYPE I
 cassette
 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 ohm 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:
 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, external
 antenna terminal
 Intermediate frequency 450 kHz

Speakers

Speaker system Two-way, bass reflex
 system, magnetically
 shielded type
 Speaker units 12 cm dia., cone type
 woofer
 2.5 cm dia., semi-dome-
 type tweeter
 Rated impedance 6 ohms
 Dimensions (w/h/d) Approx. 150 × 252 ×
 252 mm
 Mass Approx. 2.9 kg net per
 speaker

continued

Specifications (continued)

General

| | |
|----------------------|--|
| Power requirements | 110 - 120 V or 220 - 240 V AC , 50/60 Hz Adjustable with voltage selector |
| Power consumption | 75 W |
| Dimensions (w/h/d) | Approx. 190 × 252 × 345 mm incl. projecting parts and controls |
| Mass | Approx. 5.6 kg |
| Supplied accessories | Remote commander (1) AM loop antenna (1) FM wire antenna (1) Batteries (2) Video connecting cord (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 VIDEO CD/CD player does not resume play for a long time, press CD ►|| (or ► on the remote) 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 system, the PBC indicator lights up.

Track

Sections of a picture or a music piece on disc. Each track is assigned with a track number to help you locate the track you want.

VIDEO CD

A compact disc which contains moving pictures.

VIDEO CDs contain compact picture information using the MPEG 1 format, one of the world wide standards of digital compact technology. The picture information is compressed about 120 times. Consequently, a 12 cm VIDEO CD can contain up to 74 minutes of moving pictures.

VIDEO CDs also contain compact audio information. Sounds outside the range of human hearing are compressed while the sounds we can hear are not compressed. VIDEO CDs can hold six times the audio information of conventional audio CDs. There are two versions for 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.