

JVC



COMPACT COMPONENT SYSTEM

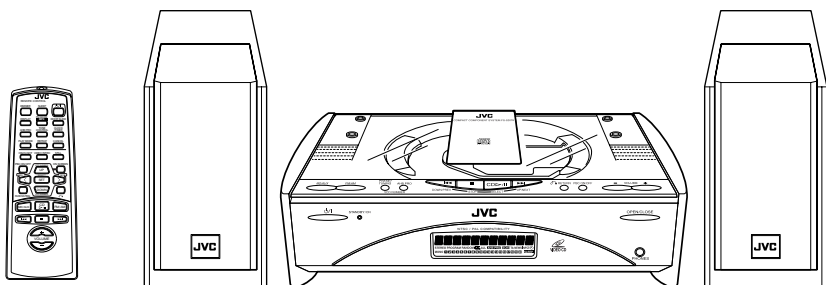
小型组合音响设备

FS-SD58V/FS-SD78V/FS-SD98V

Consists of CA-SD58V and SP-SD58V

Consists of CA-SD78V and SP-SD78V

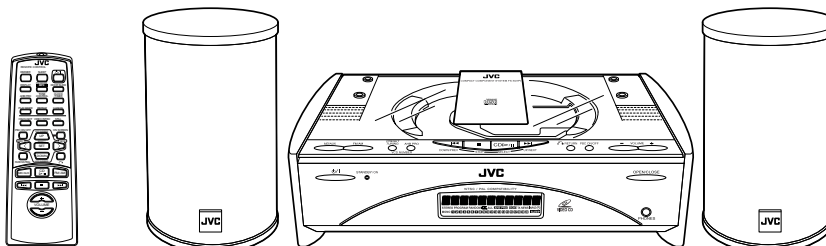
Consists of CA-SD98V and SP-SD98V



SP-SD58V

CA-SD58V

SP-SD58V



SP-SD78V, SD98V

CA-SD78V, CA-SD98V

SP-SD78V, SD98V



PlayBack Control



INSTRUCTIONS 使用说明书

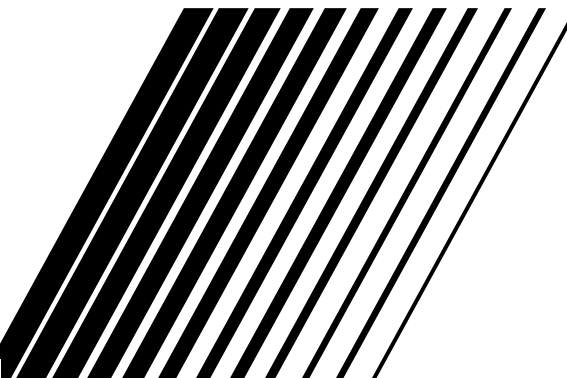
For Customer Use:

Enter below the Model No. and Serial No. which are located either on the rear, bottom or side of the cabinet. Retain this information for future reference.

Model No. _____

Serial No. _____

LVT0548-001A
[US/UB]



Warnings, Cautions and Others

警告，注意及其他须知事项

CAUTION

To reduce the risk of electrical shocks, fire, etc.:

1. Do not remove screws, covers or cabinet.
2. Do not expose this appliance to rain or moisture.

注意

为了减低触电，火灾等危险：

1. 请勿擅自卸下螺丝钉，盖子或机壳。
2. 切勿让本机受雨淋或置潮湿环境中。

Caution — ⏻/I switch!

Disconnect the mains plug to shut the power off completely. The ⏻/I switch in any position does not disconnect the mains line. The power can be remote controlled.

注意 —— ⏻/I 开关！

无论 ⏻/I 开关在任何位置，电源线的电源还是没有被切断，若要将电源完全关闭，应把电源插头拔离插座。电源开关可用遥控器控制。

IMPORTANT FOR LASER PRODUCTS / 雷射产品的重要说明

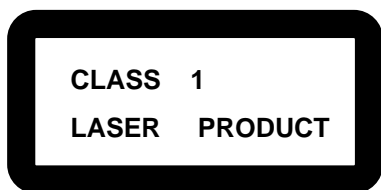
REPRODUCTION OF LABELS / 标签内容说明

① CLASSIFICATION LABEL, PLACED ON EXTERIOR SURFACE

① 分类标签，贴在外部表面。

② WARNING LABEL, PLACED INSIDE THE UNIT

② 警告标签，贴于机内。



DANGER: Invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)

WARNING: Osynlig laserstrålning när denna del är öppnad och spärren är urkopplad. Betrakta ej strålen. (s)

ADVARSEL: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling (d)

VARO: Avattaessa ja suo-jalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen. (f)

1. CLASS 1 LASER PRODUCT
2. **DANGER:** Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the Unit; leave all servicing to qualified service personnel.

1. 一级雷射产品。
2. **危险：**当内部锁定装置失效或损坏后，打开盖板可能会产生不可见的雷射辐射。应避免受到光束直接照射。
3. **注意：**请勿打开顶盖板。本机内部没有用户可自行维修的部件；所有维修工作应由有资格的人员完成。

Caution: Proper Ventilation

To avoid risk of electric shock and fire, and to prevent damage, locate the apparatus as follows:

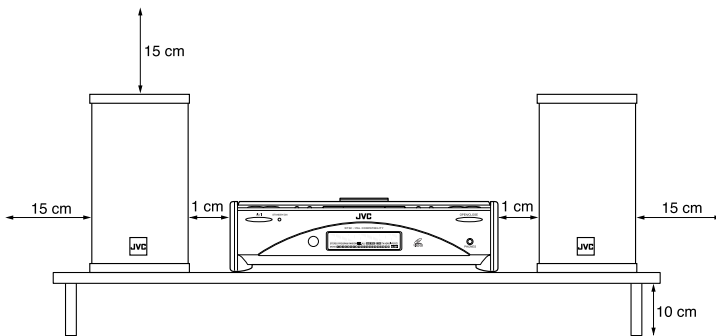
- 1 Front: No obstructions and open spacing.
- 2 Sides/ Top/ Back: No obstructions should be placed in the areas shown by the dimensions below.
- 3 Bottom: Place on the level surface. Maintain an adequate air path for ventilation by placing on a stand with a height of 10 cm or more.

告诫：正确通风

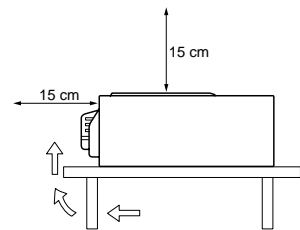
为免发生触电和火警的危险，及防止本机受损，请将本机如下放置：

1. 前面：没有障碍物及地方开关。
2. 侧面／顶部／背面：在图中所示范围中，不应放置任何障碍物。
3. 底部：放置在水面上。放置在一个高10厘米或以上的台上，以保持足够的通风通道。

Front view
前面



Side view
侧面



CAUTION

□ About the Internal Cooling Fan

This unit includes an internal cooling fan, so as to allow for high-power operation within a small space.

This fan comes on when the sound level is set high, and may also come on even at low sound levels if the internal temperature rises. To ensure effective fan operation, please leave at least 15cm clearance between the rear of the unit and the wall, and at least 1cm clearance on each side of the unit.

注意

□ 关于内部冷却风扇

本机内含一台内部冷却风扇，使高功率的操作可以在一个细小空间内进行。当音量水平设定为高时风扇会启动，而即使音量水平不高但机内温度上升时，风扇也可能会启动。为确保风扇能有效操作，请在本机背后与墙壁之间留有至少15cm的空隙，并在本机的每一侧留有至少1cm的空隙。

Introduction

Thank you for purchasing the JVC Compact Component System. We hope it will be a valued addition to your home, giving you years of enjoyment. Be sure to read this instruction manual carefully before operating your new stereo system. In it you will find all the information you need to set up and use the system. If you have a query that is not answered by the manual, please contact your dealer.

Features

Here are some of the things that make your System both powerful and simple to use.

- ❑ Types of CD you can play
 - Many types of compact discs are sold for a variety of uses. The Video CD Player can play the following compact discs.
 - **Video CD without Playback Control function:** for audio and video (moving picture) reproduction.
 - **Video CD with Playback Control function:** featuring menu-type operation and super-fine still pictures for audio and video (moving picture) reproduction.
 - **CD Graphics (CD-G):** for audio and video (still picture) reproduction.
 - **Digital Audio CD, including 8-cm(3")CDs:** for audio reproduction.
 - **CDs you cannot play:** Do not play SVCDs, DVDs and CD-ROMs on this System. Playing CD-ROMs may generate a noise which can damage your speakers.
- ❑ JVC's **COMPU PLAY** feature that, with a single touch, automatically starts playing the Radio or CD Player.
- ❑ The System incorporates Active Hyper Bass PRO circuitry to faithfully reproduce low frequency sounds.
- ❑ A 45-station preset capability (30 FM and 15 AM) in addition to auto-seek and manual tuning.
- ❑ CD options that include repeat, random and program play.
- ❑ Timer functions; Daily Timer and Sleep Timer.
- ❑ You can connect various external units, such as an MD recorder.



How This Manual Is Organized

- Basic information that is the same for many different functions - e.g. setting the volume - is given in the section 'Basic Operations', and not repeated under each function.
- The names of buttons/controls and display messages are written in all capital letters: e.g. FM/AM, "NO DISC".
- System functions are written with an initial capital letter only: e.g. Normal Play.

Use the table of contents to look up specific information you require.

We have enjoyed making this manual for you, and hope it serves you in enjoying the many features built into your System.

WARNINGS

- **DO NOT PUT ANYTHING ON THE TOP COVER. IF THE SYSTEM IS OPERATED WITH SOMETHING PUT ON THE TOP COVER, IT WILL BE DAMAGED WHEN YOU TRY TO OPEN THE TOP COVER.**
- **NEVER REMOVE THE TOP COVER FROM THE UNIT. SERIOUS INJURY MAY OCCUR IF THE SYSTEM IS OPERATED WITHOUT THE TOP COVER.**

IMPORTANT CAUTIONS

1 Installation of the System

- Select a place which is level, dry and neither too hot nor too cold. (Between 5°C and 35°C or 41°F and 95°F.)
- Leave sufficient distance between the System and a TV.
- Do not use the System in a place subject to vibrations.

2 Power cord

- Do not handle the power cord with wet hands!
- Some power is always consumed as long as the power cord is connected to the wall outlet.
- When unplugging the System from the wall outlet, always pull the plug, not the power cord.

3 Malfunctions, etc.

- There are no user serviceable parts inside. In case of system failure, unplug the power cord and consult your dealer.
- Do not insert any metallic object into the System.
- Do not insert your hand between the Top Cover and the main body when the Top Cover is being closed.

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Getting Started

Accessories

Make sure that you have all of the following items, which are supplied with the System.

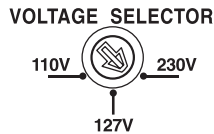
- Power Cord (1)
- AM Loop Antenna (1)
- Remote Control (1)
- Batteries (2)
- FM Wire Antenna (1)
- Speaker Cords (2)
- Video Cord (1)
- Spacers (6) (only for SP-SD78V / SD98V)
- AC Plug Adaptor (except for Hong Kong)

If any of these items are missing, contact your dealer immediately.

Set the VOLTAGE SELECTOR Switch

To avoid damaging the System, set the voltage before plugging in the System.

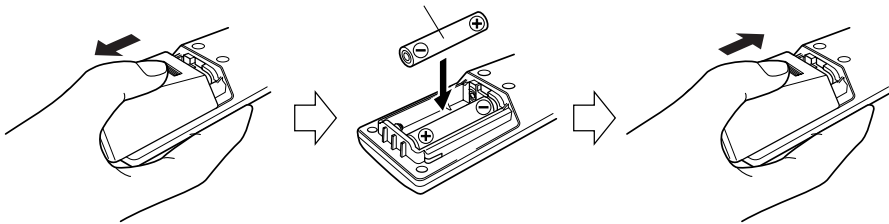
Set the correct voltage for your area with the VOLTAGE SELECTOR switch on the back of the Unit. By using a screwdriver, rotate the VOLTAGE SELECTOR switch so that the arrow mark points the voltage of your area.



How To Put Batteries In the Remote Control

Match the polarity (+ and -) on the batteries with the + and - markings in the battery compartment.

R6P(SUM-3)/AA(15F)



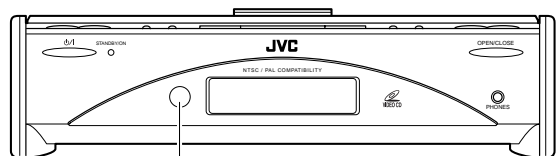
CAUTION:

• Handle batteries properly.

- To avoid battery leakage or explosion:
 - Remove batteries when the Remote Control will not be used for a long time.
 - When you need to replace the batteries, replace both batteries at the same time with new ones.
 - Do not use an old battery with a new one.
 - Do not use different types of batteries together.

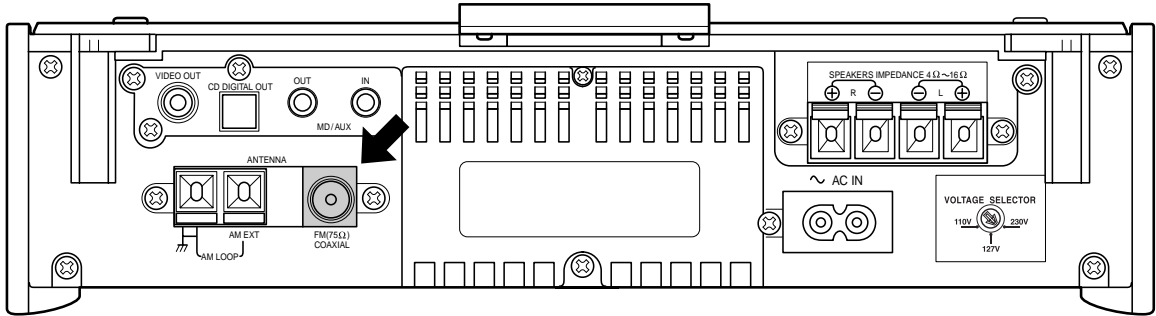
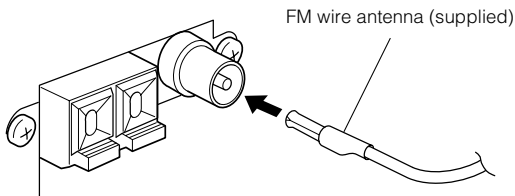
Using the Remote Control

The Remote Control makes it easy to use many of the functions of the System from a distance of up to 7m (23 feet) away. You need to point the Remote Control at the remote sensor on the System's front panel.



CAUTION:

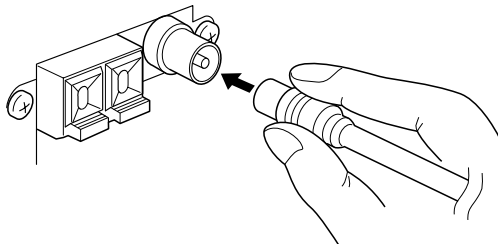
- Make all connections before plugging the System into an AC power outlet.

Connecting the FM Antenna**Rear Panel of the Unit****Using the Supplied Wire Antenna****Note**

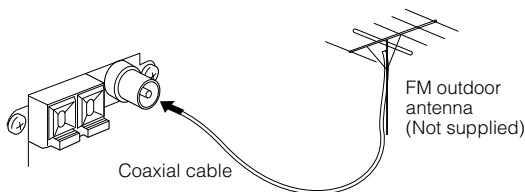
- Before attaching a 75 ohm coaxial lead (the kind with a round wire going to an outdoor antenna), disconnect the supplied FM Wire Antenna.

Using the Coaxial Type Connector (Not Supplied)

A 75-ohm antenna with coaxial type connector (IEC or DIN45 325) should be connected to the FM 75-ohm COAXIAL terminal.



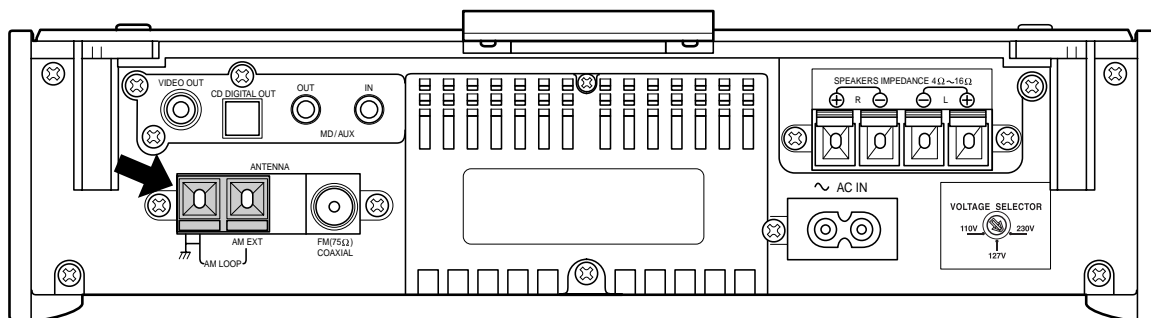
If reception is poor, connect the outdoor antenna.



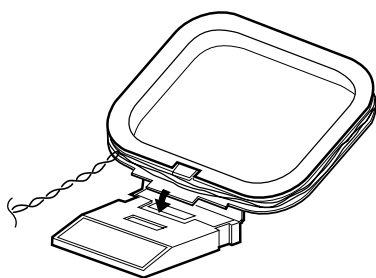
Getting Started

Connecting the AM Antenna

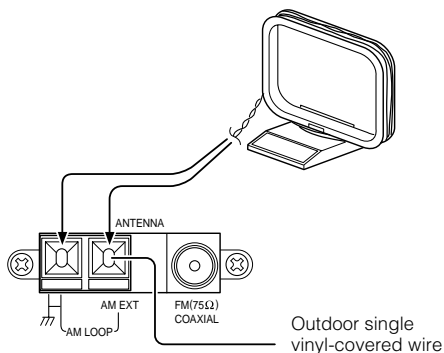
Rear Panel of the Unit



AM loop antenna (Supplied)



Attach the AM loop to its base by snapping the tabs on the loop into the slot in the base.



Turn the loop until you have the best reception.

Notes

- If the AM loop antenna wire is covered with vinyl, remove the vinyl by twisting it as shown in the diagram.
- Make sure the antenna conductors do not touch any other terminals, connecting cords and power cord. This could cause poor reception.
- If reception is poor, connect an outdoor single vinyl-covered wire to the AM EXT terminal. (Keep the AM loop antenna connected.)

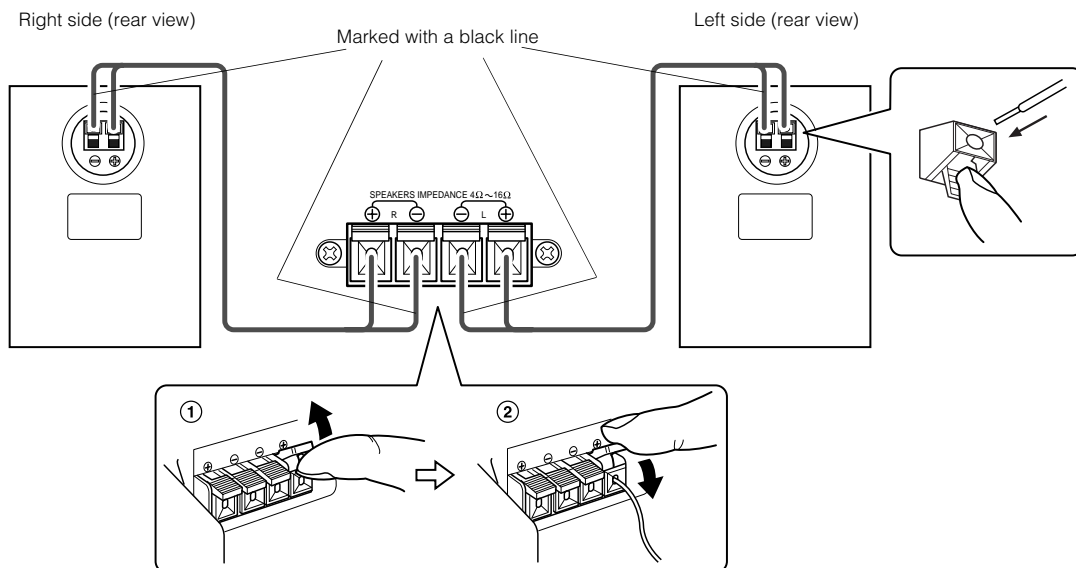


CAUTION:

- Make all connections before plugging the System into an AC power outlet.

Connecting the Speakers

1. Open each of the terminals to connect the speaker wire leads.
2. Connect the speaker cords between the Speaker terminals of the Unit and the terminals of the Speakers.
Connect the cords with a black line to the (-) terminals and cords without a black line to the (+) terminals.
3. Close each of the terminals to securely connect the cords.

**Note**

- Since both speakers are the same, you can put either one to the right or left side.

Removing the speaker grilles

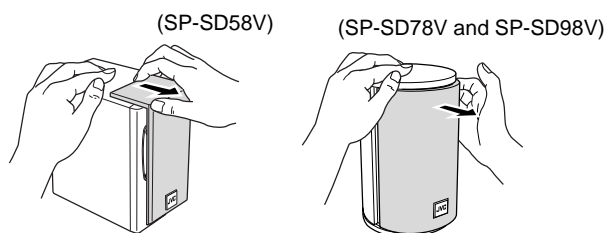
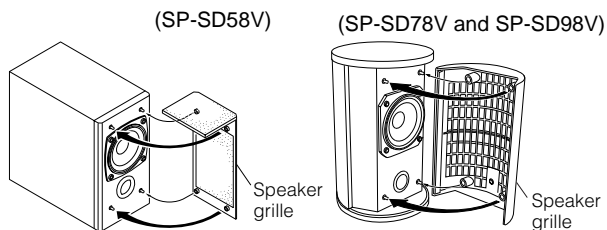
The speaker grilles can be removed.

When removing:

1. Pull the top forwards you with your fingers.
2. Also pull the bottom towards you.

Note

- When removing the speaker grille from the SP-SD98V's speaker, be careful not to damage the cabinet.

**When attaching the speaker grille:**

Getting Started

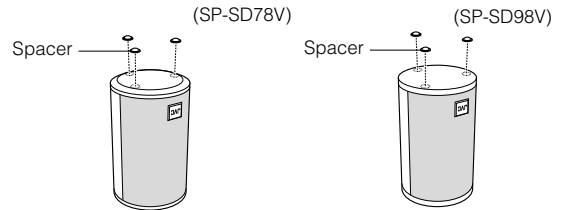
Attaching the Spacers

CAUTION: Note for installation

- Take special care to select an appropriate installation place where an earthquake or shock does not cause the speaker to collapse or drop on the floor.

SP-SD78V / SD98V

Attach the supplied spacers to the bottom of the speaker to protect the cabinet, prevent slipping, and absorb the cabinet vibration. Peel off the backing from a spacer and attach it.

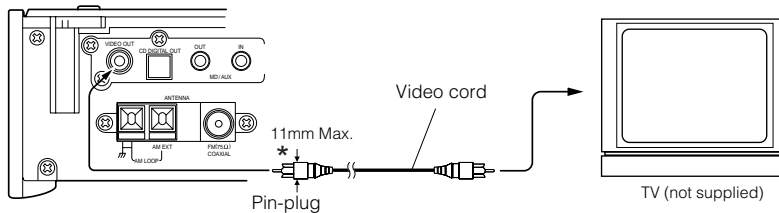


Connecting a TV

Connect a video cord (supplied) between the System's VIDEO OUT terminal and the video input jack of your TV.



- Do not connect a cable between the MD/AUX-OUT terminal and the audio input terminal of an external TV. If it is connected, noise may be generated depending on the TV to be used.

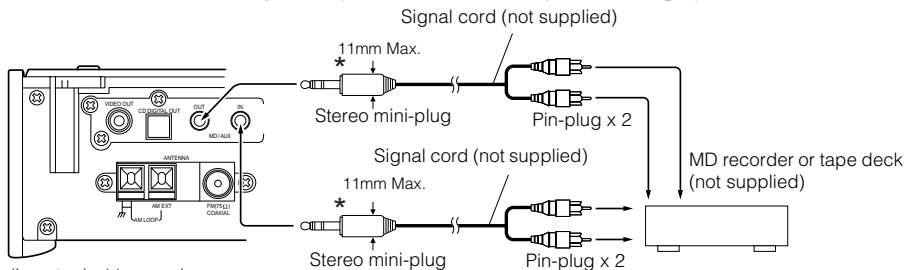


* Use the plug whose diameter is 11mm or less.

Connecting External Equipment

Connect signal cords (not supplied) between the System's MD/AUX-OUT/IN terminals and the output/input terminals of the external MD recorder, tape deck, etc.

You can then listen to the external source through the System or record the System's CD player or tuner to the external unit.

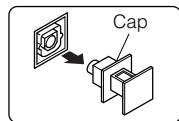


* Use the plug whose diameter is 11mm or less.

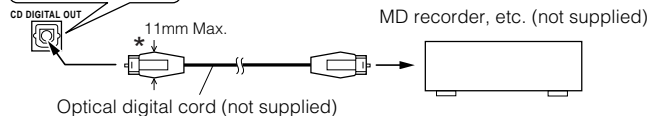
Connecting an MD Recorder, etc (Digital Output)

Unplug the cap and connect an optical digital cord (not supplied) between the System's CD DIGITAL OUT terminal and the input terminal of the MD recorder, etc.

You can record the digital output signal from the System's CD Player to the MD recorder, etc.

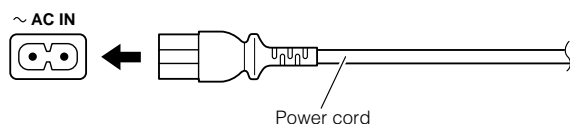


* Use the plug whose diameter is 11mm or less.



Connecting the AC Power Cord

Firmly insert the supplied AC power cord into the AC inlet on the back of the Unit.



CAUTIONS:

- **ONLY USE THE JVC POWER CORD PROVIDED WITH THIS SYSTEM TO AVOID MALFUNCTION OR DAMAGE TO THE SYSTEM.**
- **BE SURE TO UNPLUG THE POWER CORD FROM THE OUTLET WHEN GOING OUT OR WHEN THE SYSTEM IS NOT IN USE FOR AN EXTENDED PERIOD OF TIME.**

Now you can plug the AC power cord into the wall outlet, and your System is at your command!

COMPU Play

JVC's COMPU PLAY feature lets you control the most frequently used System functions with a single touch. With One Touch Operation you can play a CD, turn on the radio, or listen to an external equipment with a single press of the play button for that function. One Touch Operation turns the power on for you, then starts the function you have specified. At the same time, the Top Cover moves backward to allow the Unit's top button operation. If the System is not ready (no CD in place), the System still powers on so you can insert a CD.

How One Touch Operation works in each case is explained in the section dealing with that function.

The COMPU PLAY buttons are:

On the Remote Control

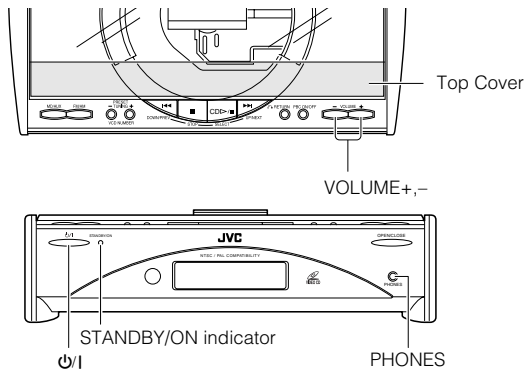
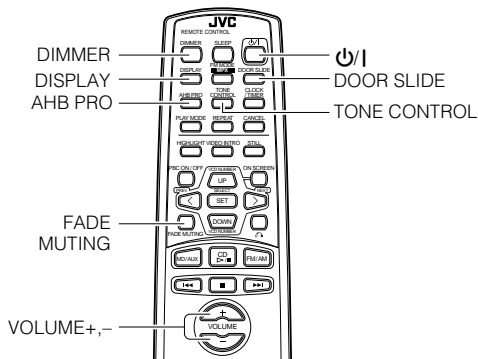
- CD ▷/|| button
- FM/AM button
- MD/AUX button

Automatic Power On

The System automatically turns on with the following operation.

- When you press the OPEN/CLOSE button on the Unit, the System automatically turns on and the Top Cover opens to allow CD setting. However, this operation does not change the function to CD.
When you press the $\odot/1$ button to turn off the System, the Top Cover will be automatically closed if it is opened.
- When you press the DOOR SLIDE button on the Remote Control, the System automatically turns on and the Top Cover moves backwards to allow button operation.
When you press the $\odot/1$ button to turn off the System, the Top Cover will automatically moves back to the original position, if it is in the backward position.

Basic Operations



Turning the Power On and Off

Turning the System On

Press the $\text{\textcircled{P}}$ /I button.

The Top Cover moves backward and the Unit's top buttons appear. The display comes on and "HELLO" is displayed once. The STANDBY/ON indicator lights in **green**.

The System comes on ready to continue in the mode it was in when the power was last turned off.

- For example, if the last thing you were doing was listening to a CD, you are now ready to listen to a CD again. If you wish, you can change to another source.
- If you were listening to the Tuner last, the Tuner comes on playing the station it was last set to.

Turning the System Off

Press the $\text{\textcircled{P}}$ /I button again.

The Top Cover moves back to the original position. "GOOD BYE" is displayed and the display goes out, except for the clock display. The STANDBY/ON indicator lights in **red**.

- Some power is always consumed even though power is turned off (called Standby Mode).
- To switch off the System completely, unplug the AC power cord from the wall outlet. When you unplug the AC power cord, the clock will be reset to 0:00 after about 20 minutes.

Adjusting the Brightness (DIMMER)

You can adjust the brightness of the backlighting for the display.

When the System is Turned On

Each time you press the DIMMER button on the Remote Control, the brightness of the backlighting changes as follows:

Bright → Dark → (back to the beginning)

When the System is Turned Off (STANDBY MODE)

Each time you press the DIMMER button on the Remote Control, the brightness of the backlighting changes as follows:

No backlighting → Dark backlighting → (back to the beginning)

Note

- When the System is turned off again after power on, the brightness in Standby mode will be restored to the previous one since the brightness setting in Standby mode is stored in memory.

Adjusting the Volume

Press the VOLUME + button to increase the volume or press the VOLUME – button to decrease it.

VOLUME 15

You can adjust the volume level between 0 and 50.

CAUTION:

- **DO NOT** turn off the System with the volume set to an extremely high level; otherwise a sudden blast of sound could damage your hearing, speakers and/or headphones when you turn on the System or start playing any source next time. **REMEMBER** you cannot adjust the volume level while the System is in standby mode.

For private listening

Connect a pair of headphones to the PHONES jack. No sound comes out of the speakers. Be sure to turn down the volume before connecting or putting on headphones.

Fade-out Muting (FADE MUTING)

You can mute the audio output with one touch operation.

To mute the audio output, press the FADE MUTING button on the Remote Control. Then, the audio output will be faded out and becomes 0 (VOLUME 0).

To release muting, press the FADE MUTING button once again. Then, the audio output will be faded in to the original level.



- The signal output from the MD/AUX-OUT is not muted.

Reinforcing the Bass Sound (AHB PRO)

You can reinforce the bass sound to maintain rich, full bass at low volume.

To get the effect, press the AHB (Active Hyper Bass) PRO button on the Remote Control.

The "AHB PRO" indicator lights up on the display.

To cancel the effect, press the same button again. The "AHB PRO" indicator goes out.

Tone Control (TONE CONTROL)

You can control the tone by changing the bass (low frequency range level) and treble (high frequency range level).

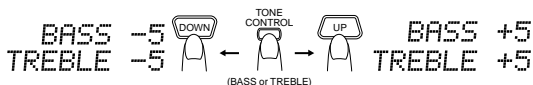
1 Press the TONE CONTROL button on the Remote Control to select "BASS" or "TREBLE".

Each time you press the button, the display will change as follows:

BASS --> **TREBLE** --> (original display) --> (back to the beginning)

2 Press the UP or DOWN button on the Remote Control to adjust the bass or treble level.

You can adjust each level between -5 and +5. (0: Flat)



Showing the Time (DISPLAY)

You can show the current time on the display.

To display the clock, press the DISPLAY button on the Remote Control.

To return to the previous mode, press the same button again.

7:00



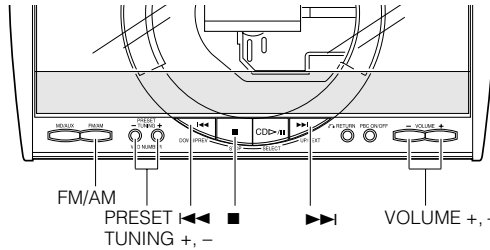
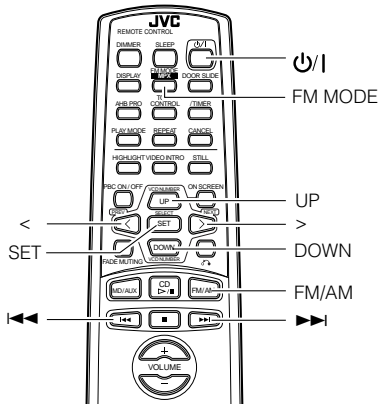
- To let the clock work, you need to set the clock first. (See "Setting the Clock" on page 21.)

Sliding the Top Cover (DOOR SLIDE)

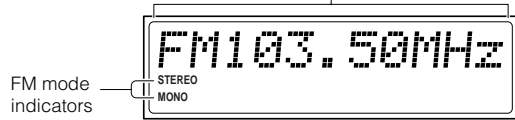
Each time you press the DOOR SLIDE button on the Remote Control, the Top Cover slides back and forth.

Slide the Top Cover backward to allow Unit's top button operation. Slide it toward you to cover the buttons.

Using the Tuner



Band display, Frequency display, Preset channel



* When the System is in use, the display shows other items as well.
For simplicity, we show here only the items described in this section.

You can listen to FM and AM stations. Stations can be tuned in manually, automatically, or from preset memory storage.

❑ Before listening to the radio:

- Make sure that both the FM and AM antennas are correctly connected. (See pages 4 and 5).

Setting the AM Tuner Interval Spacing

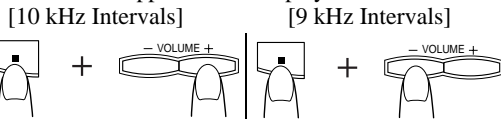
When shipped, the AM tuner interval is set to 9 kHz spacing. You can change it to 10 kHz spacing.

● Preparation to setting:

Turn on the power and press the FM/AM button to select AM mode.

To select 10 kHz intervals, while holding down the ■ button on the Unit, press the VOLUME + button on the Unit. “AM 10 kHz” will appear on the display (at the same time, the 100 kHz spacing is selected for FM broadcast).

To select 9 kHz intervals, while holding down the ■ button on the Unit, press the VOLUME - button on the Unit. “AM 9kHz” will appear on the display.



Note

- When you change the setting, the preset stations are erased. You will need to preset the stations again. (See page 12.)

One Touch Radio

Just press the FM/AM button to turn on the System and start playing the station you were last tuned to.

- ❑ You can switch from any other sound source to the radio by pressing the FM/AM button.

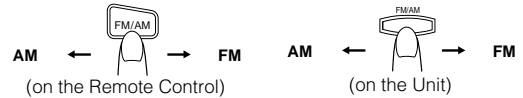
Tuning In a Station

1 Press the FM/AM button.

The Band and Frequency you were last tuned to appear on the display.

(If the last station was selected using the preset number, the preset number appears first.)

Each time you press the button, the band alternates between FM and AM.



2 Select a station using one of the following methods.

● Manual Tuning

Press the ◀◀ or ▶▶ (DOWN or UP) button on the Unit or the Remote Control repeatedly to move from frequency to frequency until you find the station you want.

OR

● Auto Tuning

If you press and hold the ◀◀ or ▶▶ (DOWN or UP) button on the Unit or the Remote Control for one second or more, the frequency changes down, or up, automatically until a station is found.

OR

● Preset Tuning using the Remote Control (Possible only after presetting stations)

Select the desired preset number using the > and < buttons on the Remote Control. After 1 second the display will show the preset number's band and frequency.

Example:

Press the > button until the preset number 12 “P12” appears. (Each time you press the > button, the preset number will be increased by 1.)



● Preset Tuning using the Unit

Press the PRESET TUNING + or - button to select the desired preset number.
Its band and frequency are displayed.

Note

- In AM broadcast, reception sensitivity will be changed by turning the AM loop antenna. Turn the AM loop antenna for best reception.

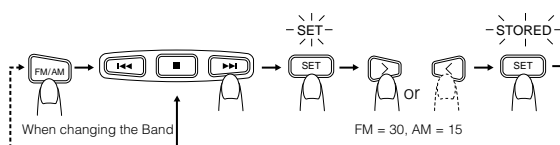
Presetting Stations

You can preset up to 30 FM stations and up to 15 AM stations **using the Remote Control**.

Note

- Preset numbers may have been set to factory test frequencies prior to shipment. This is not a malfunction. You can preset the stations you want into memory by following one of the presetting methods below.

Manual Presetting

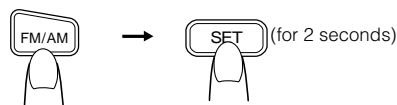


- 1 Select a band by pressing the FM/AM button.**
- 2 Press the \lll or \ggg (DOWN or UP) button on the Unit or the Remote Control to tune in a station.**
- 3 Press the SET button.**
“SET” will blink for 5 seconds.
Within 5 seconds, proceed to the next step.
When the display returns to the one set in step 2 after 5 seconds, press the SET button again.
- 4 Press the > or < button within 5 seconds to select the preset number.**
Pressing the > or < button will increase or decrease the preset number by 1.
Pressing and holding the button will rapidly increase or decrease the preset number.
- 5 Press the SET button within 5 seconds.**
“STORED” appears and after 2 seconds, the display returns to the broadcast frequency display.
- 6 Repeat above steps 1 to 5 for each station you want to store in memory with a preset number.**

To change the preset stations, repeat the same steps as above.

Auto Presetting

In each band, you can automatically preset FM-30, AM-15 stations. Preset numbers will be allocated as stations are found, starting from the lowest frequency and moving up the frequency.



- 1 Select a band by pressing the FM/AM button.**
- 2 Press the SET button on the Remote Control for more than two seconds.**
- 3 Repeat steps 1-2 for the other band.**

- If you want to change the preset stations, carry out the Manual Presetting for the desired preset numbers.

⚠ CAUTION:

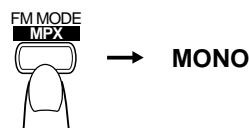
- Even if the system is unplugged or if the power failure occurs, the preset stations will be stored for about 24 hours. However, in case the preset stations are erased, you will need to preset the stations again.

To Change the FM Reception Mode

When you are tuned into an FM stereo broadcast, the “STEREO” indicator lights up and you can hear stereo effects.

If an FM stereo broadcast is hard to receive or noisy, you can select Monaural mode. Reception improves, but you lose stereo effect.

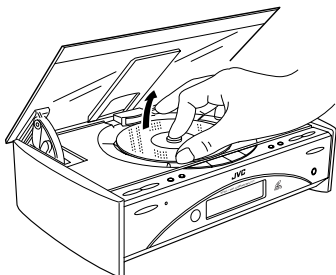
Press the FM MODE button on the Remote Control so that the “MONO” indicator lights up on the display.



To restore the stereo effect, press the FM MODE button on the Remote Control so that the “MONO” indicator goes off.

To Unload a CD

Take out the CD as shown below.



Basics of Using the CD Player-Normal Play

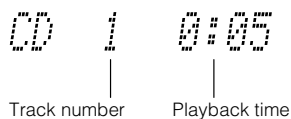
To Play a CD

- The display explained here is for digital audio CDs. It differs a little depending on the disc to be used. For example, when a video CD is played, "VCD" will be displayed instead of "CD".

1 Insert a CD.

2 Press the CD ▷/|| button.

The first track of the CD begins playing.



- The track number that has already played disappears from the music calendar.
- The CD Player automatically stops when the last track of the CD has finished playing.

To stop playing the CD, press the ■ button.
The following information for the CD is displayed.



To stop playing and remove the CD, press the OPEN/CLOSE button on the Unit to open the Top Cover.
To pause, press the CD ▷/|| button. The playback time blinks on the display.
To cancel pause, press the same button again. Play continues from the point where it was paused.

To Select a Track or Passage within a Track

During playback, press the ◀◀◀ or ▶▶▶ (DOWN or UP, or < or >) button on the Unit or the Remote Control to select the track you want.

- The selected track starts playing.
- Press the ▶▶▶ (UP or >) button on the Unit or the Remote Control once to skip to the beginning of the next track.
- Press the ◀◀◀ (DOWN or <) button on the Unit or the Remote Control to skip to the beginning of the track being played. Press twice quickly to skip to the beginning of the previous track.
- When the > or < button on the Remote Control is kept pressing, the track continuously skips.

Search Play

Holding down the ◀◀◀ or ▶▶▶ (DOWN or UP) button on the Unit or the Remote Control, during playback, will fast forward/backwards the CD so you can quickly find a particular passage in the track you are listening to.

Programming the Playing Order of the Tracks

You can program the playing order of the tracks using the Remote Control.

- You can program up to 32 tracks in any desired order including the same tracks.
- You can only make a program when the CD Player is stopped.

1 Insert a CD.

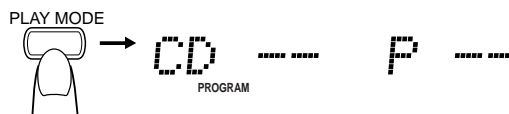
2 Press the CD ▷/|| button.

3 Press the ■ button to stop the CD.

4 Press the PLAY MODE button until the "PROGRAM" indicator lights up on the display.

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

CD - - P - - (Program Play) --> CD RANDOM (Random Play) --> Normal Play --> (back to the beginning)



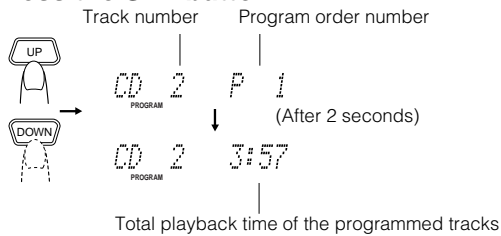
5 Press the UP, DOWN, >, or < button to select the track to program.

- UP or > button: Increases the track number by 1.
- DOWN or < button: Decreases the track number by 1.
- When the > or < button is kept pressing, the track number changes rapidly.

(To be continued on the next page)

Using the CD Player

6 Press the SET button.



7 Repeat steps 5 and 6 to select the other tracks for the program.

You can see the total playback time of programmed tracks on the display. Also, you can see the programmed tracks on the music calendar.

8 Press the CD ▷/|| button.

The System plays the tracks in the order you have programmed them.

- You can skip to a particular program track by pressing the ◀◀ or ▶▶ button during Program Play.

- To stop playing, press the ■ button once.

To confirm the programmed tracks while the CD player is stopped, each time press the ◀◀ or ▶▶ button; the tracks making up the program will successively be displayed in the programmed order.

To delete all the tracks in the program, in stop mode, press the ■ button for more than two seconds. Pressing the OPEN/CLOSE button on the unit to open the Top Cover will also clear the programmed tracks.

To exit the program mode, while the CD Player is stopped, press the PLAY MODE button to light off the "PROGRAM" indicator, or press the OPEN/CLOSE button on the Unit to open the Top Cover.

Notes

- If the total playback time of the programmed tracks exceeds 99 minutes 59 seconds, the total playback time will go out and "---:--" appears on the display.
- If you try to program the 33rd track, "MEMORY FULL" appears on the display for about 2 seconds.

To Modify the Program

Modify the contents of the program while the CD Player is stopped.

Each time you press the CANCEL button, the last track in the program is deleted. To add new tracks to the end of the program, repeat above steps 5 to 7.

Random Play

The tracks will play in no special order when you use this mode.

(Using the Remote Control)

1 Insert a CD.

2 Press the CD ▷/|| button to set the CD mode.

3 Press the button to stop the CD.

4 Press the PLAY MODE button until the "RANDOM" indicator lights up on the display.

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

CD - - P - - (Program Play) --> **CD RANDOM** (Random Play) --> Normal Play --> (back to the beginning)

5 Press the CD ▷/|| button.

The tracks are played in random order.

To skip a track during playback, press the ▶▶ button to jump to the next track in the random sequence. Press the ◀◀ button to jump back to the start of a track being played.

To exit Random Play mode, while the CD Player is stopped, press the PLAY MODE button to light off the "RANDOM" indicator, or press the OPEN/CLOSE button on the Unit to open the Top Cover.

Repeating Tracks

You can repeat all tracks or individual track, as many times as you like.

Press the REPEAT button on the Remote Control. The Repeat indicator changes with each press of the button, as shown below.

◁ → ◁ ALL → blank display → (back to the beginning)

◁ : Repeats one track.

◁ ALL: In Normal Play mode, repeats all the tracks. In Program Play mode, repeats all the tracks in the program.

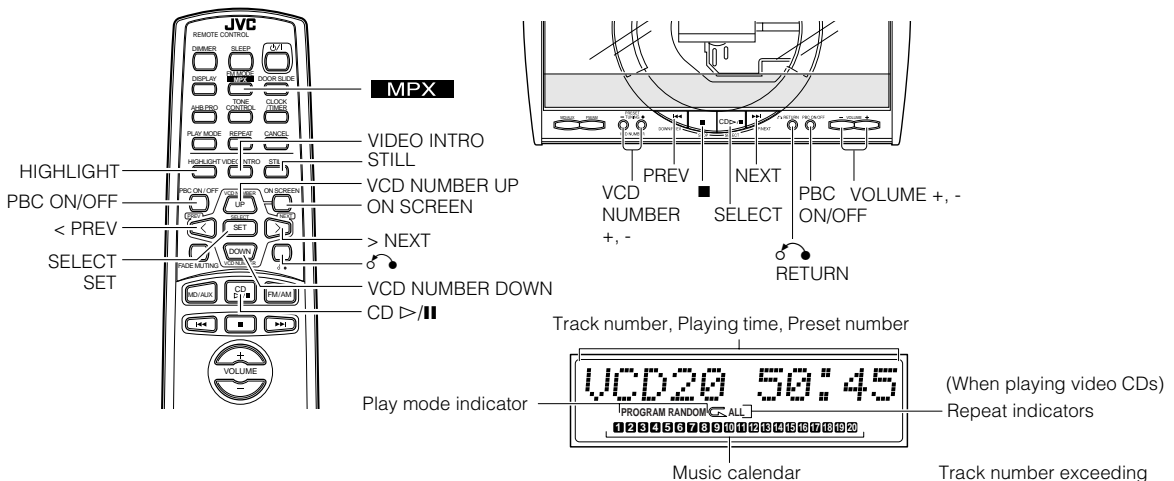
In Random Play mode, repeats all the tracks in random order.

To exit Repeat mode, press the REPEAT button until the Repeat indicator on the display goes out.

- In Random Play, ◁ cannot be selected.

- Repeat mode will remain in effect even when you change the play mode.

Using the Video CD Player (Video CDs, CD-Gs)



* When the System is in use, the display shows other items as well.
For simplicity, we show here only the items described in this section.

You can play video CDs (with or without the Playback Control (PBC) function) and CD Graphics (CD-Gs) to watch the picture on your TV while listening to the sound on video CDs and CD-Gs.
SVCDs and DVDs cannot be used.

- Before playing video CDs and CD-Gs
- Make sure that the connection between the System and your TV is correct. (See page 7.)

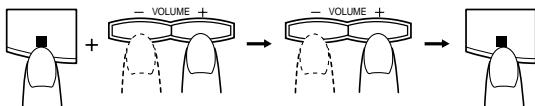
Setting the TV System

(Using the Unit)

To view a picture of video CDs or CD-Gs, it is required to set the System's TV system according to your TV system.

Relationship among the playable CDs, System's TV system and your TV system:

Playable CD	System's TV system	Your TV system
NTSC/PAL	NTSC	NTSC
NTSC/PAL	PAL	PAL
NTSC/PAL	PAL AUTO	Multisystem



- 1** Turn on the TV and select the video input on the TV.
- 2** Turn on the System and press the CD >|| button.
- 3** While pressing and holding the ■ button on the Unit, press the VOLUME + or - button on the Unit.

The current TV system ("PAL" for example) appears on the display for five seconds.

4 Within five seconds, press the VOLUME + (or -) button to select the TV system.

Each time you press the button, the TV system changes as follows.



5 Within five seconds, press the ■ button on the Unit.

Notes

- If you play a CD of NTSC system in PAL AUTO system on a PAL exclusive TV, the image may be distorted. If this happen, change to "PAL".
- When you play a CD of NTSC system in PAL AUTO system on a multisystem TV, the image may blink for a moment. This symptom occurs when the System detects the formula of the CD and is not a malfunction.

Selecting the Audio Channel

This function may be used for CDs that support multiplex function. In addition to the normal stereo sound output, you can select L channel or R channel independently.

Press the ■ MPX button on the Remote Control.

Each time you press the button, the selected channel changes as follows:

NORMAL (Stereo) --> Lch MONO --> Rch MONO --> (back to the beginning)

- When "Lch MONO" or "Rch MONO" is selected, the first push of the button will show the current selection.
- The channel selection returns to "NORMAL (Stereo)" when the CD is ejected, when other source (e.g. FM/AM) is selected, or when the system is turned off.

Using the Video CD Player (Video CDs, CD-Gs)

Playing Video CDs with PBC Function

The System provides a Playback Control (PBC) function which utilizes a procedure (menu selection) programmed in a video CD.

What is the Playback Control (PBC) function?

The PBC function allows you to enjoy the following features.

- Menu-driven playback
You can interact with the TV screen using a menu display to select and play an entry.
- High-resolution still image display
You can display high-quality images four times clearer than video pictures.

- ❑ For operation, refer to the instructions supplied for the video CD.
- ❑ You can play video CDs with PBC function using the menu screen (Menu-Driven Play) or without using the menu screen (Continuous Play).



- The playback operation procedure may differ depending on the video CD you use.
- Sometimes due to improper manufacturing, video CDs will function differently.

Playing Video CDs with the PBC Function Using the Menu Screen (Menu-Driven Play)

- ❑ Before playing, make sure that Repeat indicator “C” or “ALL” is not lit. If lit, press the REPEAT button on the Remote Control until it disappears.
- ❑ Also, make sure that the “PROGRAM” or RANDOM indicator is not lit. If lit, press the PLAY MODE button on the Remote Control until it disappears.

1 Insert a video CD with the PBC function.

“PBC” will appear on the display.

2 Press the CD ▷/|| button.

“PBC” appears on the display and the first menu will appear on the TV screen.

3 To move through the next menu, press the following button.

On the Unit:

Press the NEXT or PREV button.

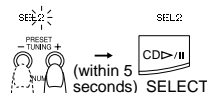
On the Remote Control:

Press the NEXT or PREV button.

4 To select the item (track) in the menu and play it, press the following buttons.

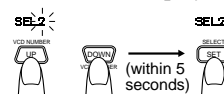
On the Unit:

1. Press the VCD NUMBER + or – button to select the item (“SEL **”) you want to play.
2. Press the SELECT button to play it back.



On the Remote Control:

1. Press the VCD NUMBER UP or DOWN button to select the item (“SEL **”) you want to play.
2. Press the SELECT button to play it back.



- The next track will be automatically played after the current track is finished.
- While a part of movie is displayed on the TV in step 2, pressing the SELECT button causes the track being played to play from the beginning.

To pause, press the STILL button on the Remote Control.

To resume pause, press the CD ▷/|| button.

To stop playback press the ■ button until a blue appears on the TV screen.

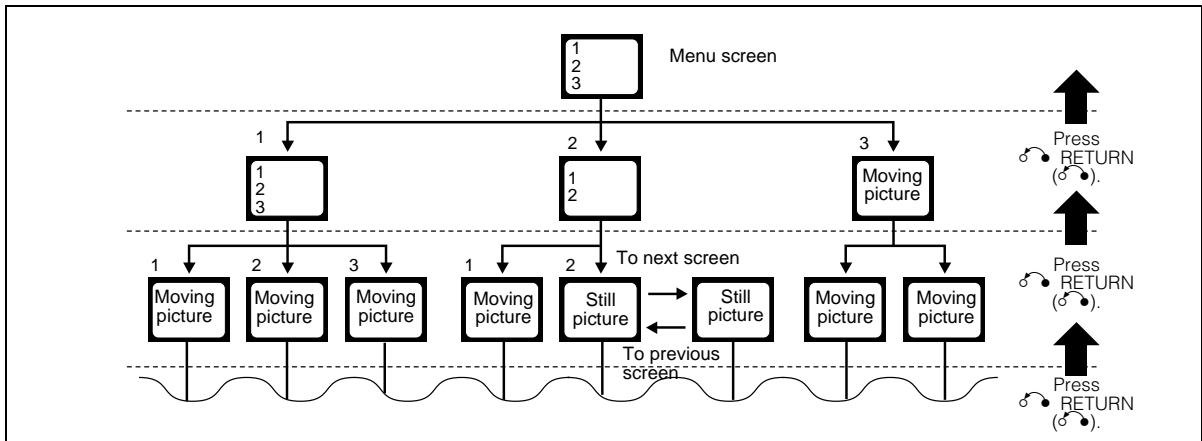
To select other item during playback, repeat step 4.



- Program Play, Random Play and Repeating Tracks cannot be made in this Menu-Driven Play.
- When the video CD is paused for about 10 minutes, the screen background automatically fades out to prevent screen burn-in.

Basic Remote Control and Unit Button Functions for Menu-Driven Play:

Remote Control	Unit	Function
PREV / NEXT	PREV / NEXT	Move through menu.
VCD NUMBER UP/DOWN	VCD NUMBER +/-	Select a specific menu item.
SELECT (SET)	SELECT (CD ▷/)	Enters the selected video CD number or item. When a part of movie is displayed on the TV screen, starts playing that track from the beginning.
↶	↶ RETURN	Returns to the previous menu during playback.



A selection menu is displayed when you start playing a video CD with the PBC function. The selection menu shows a list of numbers for selection. Some video CDs may show moving pictures or a divided screen.

- When a list of numbers is displayed, selecting a number shows its contents.
- When a moving picture is displayed, pressing SELECT at the time when a part of the movie you desire is shown plays the movie.
- When the selection menu is re-displayed after you have played your selection, selecting a number again can replay its contents. (Some video CDs may show the menu screen several times.)
- When "NEXT" and "PREV" are shown, pressing NEXT or PREV can change the selection menu.
- After playback, press RETURN () to go back to the previous screen. Some video CDs may return you to the menu screen shown before playback.

Notes

- When a menu is displayed for a long time, about 10 minutes, the screen background automatically fades out to prevent screen burn-in while the setting is suspended.
- When using the REPEAT function, the PBC function is not available.

Playing Video CDs with PBC Functions without Using the Menu Screen (PBC OFF)

You can play the video CDs with the PBC function without using the menu screen, as if they were without the PBC function.

1 Insert a video CD with the PBC function.

"PBC" will appear on the display.

2 In stop mode, press the PBC ON/OFF button until "PBC OFF" appears on the display.

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

PBC OFF ↔ PBC ON

For Program Play, Random Play, Repeating Tracks:

Select the mode by pressing respective buttons on the Remote Control in the same way as for audio CDs. (See pages 13-15.)

3 Press the CD button to play the video CD.

Playing video CDs without the PBC Function

Basic playback procedures for video CDs are the same as for audio CDs. (See page 13-15.)

- When you start playing a video CD without the PBC function, "VIDEO CD" appears on the display.

Note

- If paused for more than 10 minutes, the screen background automatically fades out to prevent screen burn-in.

Playing CD-Gs

Basic playback procedures for CD-Gs are the same as for audio CDs. (See page 13-15.)

- When you start playing a CD-G, "GRAPHICS" will appear on the display for a moment.

Notes

- During playback a CD-G, the following operations may distort the image on the TV screen:
Searching for the beginning of the track, Skipping the tracks, or pausing the tracks
- If paused for more than 10 minutes, the CD-G will automatically stop.

Using the Video CD Player (Video CDs, CD-Gs)

Various Functions to Enhance Your Enjoyment

You can use the following features **using the Remote Control**.

Frame-by-Frame Playback

Frame-by-Frame Playback is possible only when moving pictures (of the video CDs with or without the PBC function) are played.

During playback, press the STILL button to pause the video CD and then press the STILL button.

Each time you press the STILL button, the picture advances by one frame. During Frame-by-Frame Playback, no sound comes out.

To resume Normal Play, press the CD ▷/|| button.

Display of Operating Status

You can view the current operating status on the TV screen.

Press the ON SCREEN button.

Each time you press the button, the on-screen display turns on and off, and the following screen is shown for three seconds.

Display ON



Display OFF



- Once you have turned on the on-screen display, the track number and playing time are always displayed on the TV screen. When you play a video CD with the PBC function, "PBC" will be also displayed on the TV screen.

Viewing the Video Intro of Video CDs

You can check the contents of a video CD, watching the first five seconds of each track on the video CD.

1 Play the video CD.

Video CD with the PBC function:

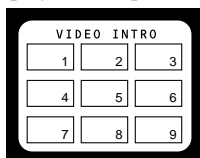
Perform PBC OFF Play after selecting "PBC OFF" with the PBC ON/OFF button. (See page 18.)

Video CD without the PBC function:

Press the CD ▷/|| button.

2 Press the VIDEO INTRO button on the Remote Control after a picture appears on the TV screen.

The Video Intro Play starts and the first five seconds of nine tracks are played in sequence.



- If the video CD has more than nine tracks, the tracks whose track number is greater than nine will be displayed after the first nine tracks have been displayed.

3 Press the VCD NUMBER UP or DOWN button to select the track and then press the SELECT button. Continuous Play starts from the selected track.

- When you use the Unit, press the VCD NUMBER + or - button to select the track. Then, press the SELECT button.

To stop and cancel the Video Intro Play, press the ■ button.



- During the Video Intro Play, image shown on the display may be partially distorted, resulting from noises or incorrect manufacturing of the CD.

- You can use the following features **using the Remote Control**.

Viewing the Highlights of Video CDs

You can view nine highlight scenes of the selected track on a video CD. These highlight scenes are created by dividing the track equally into nine portions and the beginning (5 seconds each) of those nine scenes are shown on the display.

1 Play the video CD.

Video CD with the PBC function:

Perform PBC OFF Play after selecting "PBC OFF" with the PBC ON/OFF button. (See page 18.)

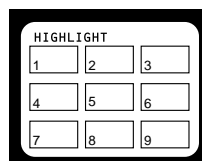
Video CD without the PBC function:

Press the CD ▷/|| button.

2 Press the HIGHLIGHT button after a picture appears on the TV screen.

The Highlight Play starts and shows in sequence, the first five seconds of nine divided highlight scenes on the TV screen for one minute. If a highlight scene is not selected, it will automatically start and show highlight of the next track every one minute.

TV screen will show the below:



3 Press the VCD NUMBER UP or DOWN button to select the highlight number and press the SELECT button.

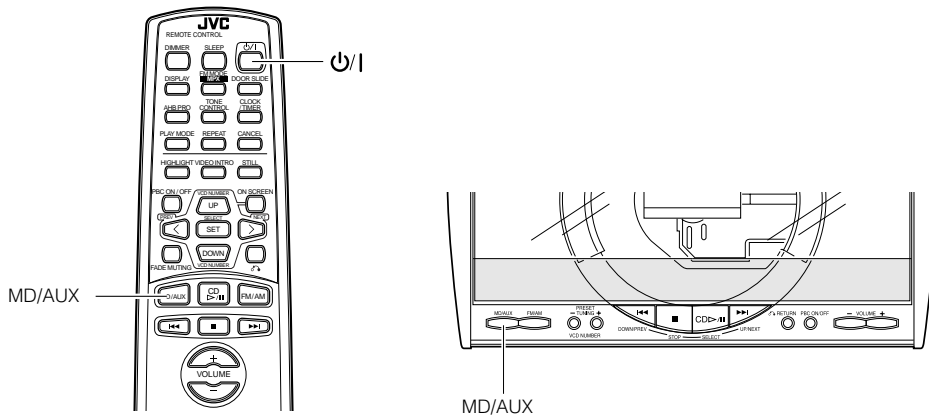
Playback starts from the selected scene.

To stop and cancel the Highlight Play, press the ■ button.



- If none of highlight scenes is selected for approx. one minute, while nine scenes are shown on the TV, nine highlight scenes of the next track will appear on the display. (After the highlight scenes of the last track are displayed, the video CD stops.)
- When a highlight scene is selected, playback starts from the beginning of the highlight scene, but not from the still image shown on the display (the part shown is the last part of the highlight scene, not its beginning).
- During the Highlight Play, image shown on the display may be partially distorted, resulting from noises or incorrect manufacturing of the CD.

Using External Equipments



Listening to External Equipment

You can listen to external equipment such as MD recorder, turntable or other auxiliary.

- ❑ First make sure that the external equipment is properly connected to the System. (See page 7).

1 Set the VOLUME control to the minimum position.

2 Press the MD/AUX button.

“MD/AUX” appears on the display.

MD/AUX

3 Start playing the external equipment.

4 Adjust the VOLUME control to the desired listening level.

5 Apply sound effects, if you wish.

- ❑ Press the AHB PRO button on the Remote Control to reinforce the bass sound.
- ❑ Adjust the tone (bass and treble) by using the TONE CONTROL button on the Remote Control. (See “Tone Control” on page 10.)

To exit MD/AUX mode, you will automatically switch out of MD/AUX mode when you select another source.



- For operation of the external equipment, refer to its Instructions.

Recording the System's Source to External Equipment

You can record the System's source to external equipment which is connected to the MD/AUX-OUT or CD DIGITAL OUT terminals of the System, such as cassette deck or MD recorder, etc.

- ❑ First make sure that the external equipment is properly connected to the System. (See page 7).

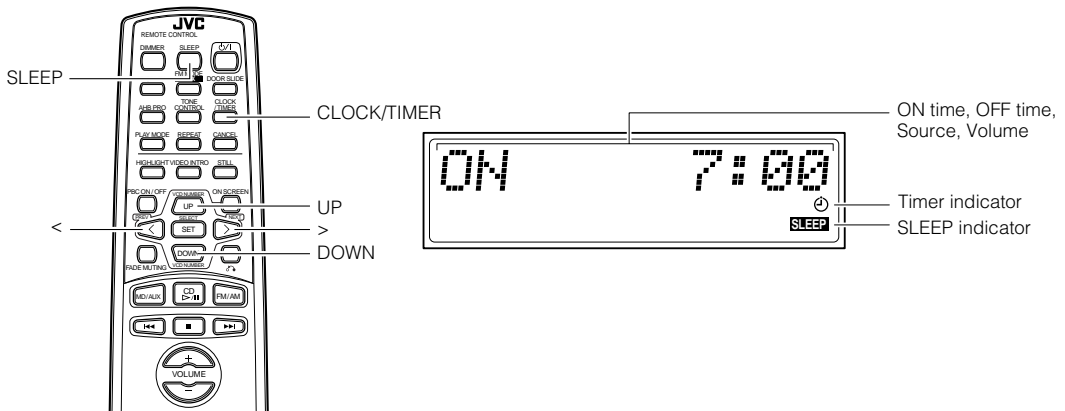
Play a CD or tune in to a station.

- ❑ The recording level is not affected by the VOLUME level set by the System. Also it is not affected by the sound effects.



- For operation of the external equipment, refer to its Instructions.
- During playing a video CD or using tuner, no signal is output from the CD DIGITAL OUT terminals.

Using the Timers



* When the System is in use, the display shows other items as well.
For simplicity, we show here only the items described in this section.

The timers let you control listening functions automatically.

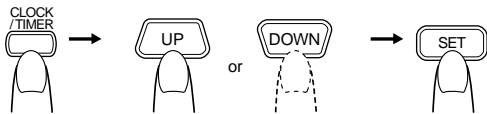
Setting the Clock

(Using the Remote Control)

- You can set the clock whether the System is turned on or off.
- When you plug the AC power cord into the wall outlet, the time indication "0:00" blinks on the display.

Notes

- The clock must be correctly set for the timers to work.
- The procedure must be completed within **two minutes**. Otherwise, the setting is cleared and must be repeated from the beginning.



1 Press the CLOCK/TIMER button on the Remote Control.

The hour digit of the time indication rapidly blinks on the display.

2 Press the UP or DOWN button to set the hour.

Pressing the UP button moves the time forwards and pressing the DOWN button moves it backwards. Hold down the button to move the time rapidly.

You can use the > or < button instead of the UP or DOWN button.

3 Press the SET button.

The minute digits of the time indication rapidly blink on the display.

4 Press the UP or DOWN button to set the minute.

You can use the > or < button instead of the UP or DOWN button.

5 Press the SET button.

The selected time is set and the seconds start counting from 0.

To change the set time, press the CLOCK/TIMER button three times to display the clock, and then repeat from step 2.

CAUTION:

- If there is a power failure, the clock loses its setting after about 20 minutes. "0:00" blinks on the display and the clock must be reset.

Note

- The clock may gain or lose one to two minutes per month.

Setting the Daily Timer

(Using the Remote Control)

Once you have set the Daily Timer, the timer will be activated at the same time every day.

The Timer indicator on the display shows that the Daily Timer you have set is in effect.

If the unit is already turned on at the ON time of the timer, the timer does not work.

Note

- Perform each setting within **30 seconds**. Otherwise, setting will be cleared and the procedure must be repeated from the beginning.

1 Entering the timer setting mode.

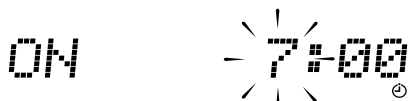
Press the CLOCK/TIMER button on the Remote Control.

"TIMER" appears and the Timer indicator (⊕) lights up on the display.

2 Setting the ON time (Example: 10:15).

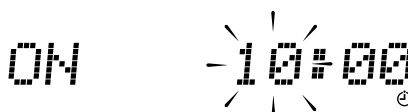
1. Press the CLOCK/TIMER button.

The hour digit of the current ON time blinks on the display.



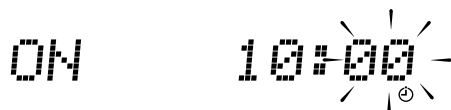
Press the UP (>) or DOWN (> or <) button on the Remote control to set the hour you want the Unit to come on.

Pressing the UP (>) button moves the time forwards and pressing the DOWN (<) button moves it backwards. Hold down the button to move the time rapidly.



2. Press the SET button.

The minute digits of the ON time blink on the display.



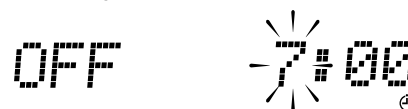
Set the minute you want the Unit to come on, using the UP or DOWN button.



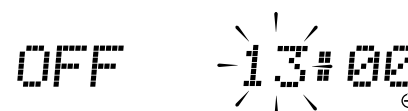
3 Setting the OFF time (Example: 13:30).

1. Press the SET button.

The hour digit of the OFF time blinks on the display.



Set the hour you want the Unit to be turned off, using the UP or DOWN (> or <) button.



2. Press the SET button.

The minute digits of the OFF time blink on the display.



Set the minute you want the Unit to be turned off, using the UP or DOWN (> or <) buttons.



- To proceed to the next step, the OFF time must differ from the ON time.

4 Selecting the music source.

1. Press the SET button.

The "TUNER" or "CD" blinks on the display.

2. Press the UP or DOWN (> or <) button to select the music source you want to listen to.

The display changes as shown below.

TUNER↔CD↔(back to the beginning)

5 Setting the volume level.

1. Press the SET button.

The current volume setting blinks on the display.

2. Press the UP or DOWN (> or <) button to select the volume level.

-- :The volume level immediately before turning off the system is used.

0 to 50 :When the timer is turned on, the Volume will be automatically set to the selected level. (It is possible to fade in the sound from volume level 0 (zero) to the preset volume.)



6 Press the SET button.

The timer setting is completed and each setting value appears on the display for two seconds in the order of ON time, OFF time, music source and volume. Then, the display returns to the display before you set the Timer. The Timer indicator (⊕) remains lit.

7 Before turning off the System, prepare the music source selected in step 4.

TUNER: Tune in to the desired station.

CD: Insert a CD. (Playback will start from the first track at Timer on.)

8 Press the ⏻ button to turn off the System.

In standby mode, you can see the Timer indicator (⊕) on the display.

- When the timer turns on, the Timer indicator starts blinking and the prepared source in step 7 will be played.

□ During setting the timer, pressing the CANCEL button will return to the previous setting step.

To cancel the timer, press the CLOCK/TIMER button and then the CANCEL button. "TIMER OFF" appears and the Timer indicator (⊕) goes out on the display.

Using the Timers

To re-activate the cancelled timer, press the CLOCK/TIMER button and then the SET button. The Timer indicator (⌚) will light up again and you can see the current timer settings (ON time, OFF time, music source and volume).

To confirm the timer settings, press the CLOCK/TIMER button and then the SET button. You can see the current timer settings (ON time, OFF time, music source and volume).

CAUTION:

- If the System is unplugged, or a power failure occurs, the timer setting will be lost. You will need to reset the clock first, then the timer.

To Confirm the Sleep Time:

When the SLEEP button is pressed, the remaining sleep time is displayed. Wait until the display returns to the original display.

To Cancel the SLEEP Timer Setting:

Press the SLEEP button until the “SLEEP” indicator goes out on the display.

Turning off the System also cancels the SLEEP Timer.

- ❑ If you are setting the Daily Timer, the System will be turned on at the set time to wake you up.

Setting the SLEEP Timer

(Using the Remote Control)

Use the Sleep Timer to turn the System off after a certain number of minutes when it is playing. By setting the Sleep Timer, you can fall asleep to music and know that your System will turn off by itself rather than play all night.

- ❑ You can only set the Sleep Timer when the System is on and a source is playing.

1 Play a CD or tune in to the desired station.

2 Press the SLEEP button on the Remote Control.

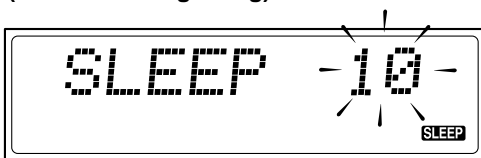
The “SLEEP” indicator lights up.

- ❑ When the clock is not set, “CLOCK” and “ADJUST” appear alternately on the display. Set the clock at first.

3 Set the length of time you want the source to play before shutting off.

- Each time you press the SLEEP button, it changes the number of minutes shown on the display in this sequence:

10 → 20 → 30 → 60 → 90 → 120 → Cancelled → (back to the beginning)



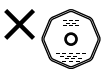
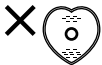
The selected number of minutes for the Sleep Timer will stop blinking five seconds later and the display returns to the original one before setting the Sleep Timer. (The display is dimmed.)

The System is now set to turn off after the number of minutes you set.

Care And Maintenance

Handle your CDs carefully, and they will last a long time.

Compact Discs



- Only CDs bearing this mark can be used with this System. However, continued use of irregular shape CDs (heart-shape, octagonal, etc.) can damage the System.



- Remove the CD from its case by holding it at the edges while pressing the case's center hole lightly.
- Do not touch the shiny surface of the CD, or bend the CD.



- Put the CD back in its case after use to prevent warping.
- Be careful not to scratch the surface of the CD when placing it back in the case.
- Avoid exposure to direct sunlight, temperature extremes, and moisture.



- A dirty CD may not play correctly. If a CD does become dirty, wipe it with a soft cloth in a straight line from center to edge.

CAUTION:

- Do not use any solvent (for example, conventional record cleaner, spray thinner, benzene, etc.) to clean a CD.

General Notes

In general, you will have the best performance by keeping your CDs and the mechanism clean.

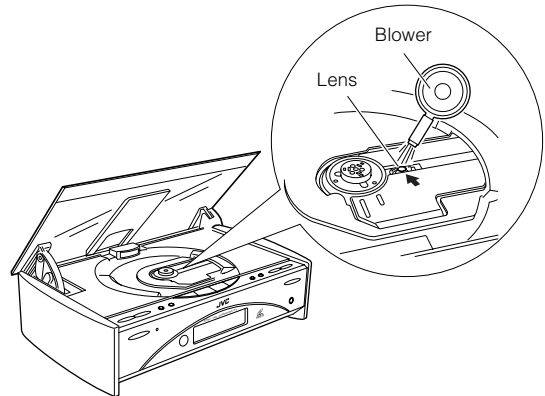
- Store CDs in their cases, and keep them in cabinets or on shelves.
- Keep the System's Top Cover closed when not in use.

Cleaning the Lens

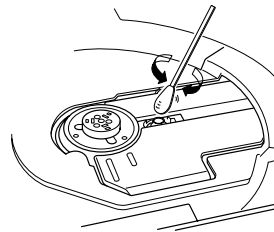
If the lens in the CD pickup is dirty, dropout, etc., could degrade sound.

Open the Top Cover and clean the lens as shown.

- Use a blower (available from a camera store) to blow dust off the lens.



- If there are fingerprints, etc. on the lens, gently wipe clean with a cotton swab.



Moisture Condensation



Moisture may condense on the lens inside the System in the following cases:

- After turning on heating in the room.
- In a damp room.
- If the System is brought directly from a cold to a warm place.

Should this occur, the System may malfunction. In this case, leave the System turned on for a few hours until the moisture evaporates, unplug the AC power cord, and then plug it in again.

Troubleshooting

- If you are having a problem with your System, check this list for a possible solution before calling for service.
- If you cannot solve the problem from the hints given here, or the System has been physically damaged, call a qualified person, such as your dealer, for service.

Symptom	Possible Cause	Action
No sound is heard.	<ul style="list-style-type: none"> • Connections are incorrect, or loose. • Headphones are connected. 	<ul style="list-style-type: none"> • Check all connections and make corrections. (See pages 4 to 8.) • Disconnect the headphones.
Poor radio reception	<ul style="list-style-type: none"> • The antenna is disconnected. • The AM Loop Antenna is too close to the System. • The FM Wire Antenna is not properly extended and positioned. 	<ul style="list-style-type: none"> • Reconnect the antenna securely. • Change the position and direction of the AM Loop Antenna. • Extend FM Wire Antenna to the best reception position.
The CD skips.	The CD is dirty or scratched.	Clean or replace the CD.
The CD does not play.	The CD is upside down.	Put the CD in with the label side up.
Unable to operate the Remote Control.	<ul style="list-style-type: none"> • The path between the Remote Control and the sensor on the Unit is blocked. • The batteries have lost their charge. 	<ul style="list-style-type: none"> • Remove the obstruction. • Replace the batteries.
The image on the TV screen is distorted.	VIDEO OUT select is not matching.	Select the correct TV system. (See page 16.)
The picture of the video CD or CD-G is distorted.	When you pause or skip the track, the pictures will be distorted. This is not a malfunction.	
Operations are disabled.	The built-in microprocessor has malfunctioned due to external electrical interference.	Unplug the System then plug it back in after a few minutes.

Specifications

Amplifier

Output Power	32 W (16 W + 16 W) at 4 ohms (Max.)
Input Sensitivity/Impedance (1 kHz)	
MD/AUX IN	500 mV/50 kohms
Output Sensitivity/Impedance (1 kHz)	
MD/AUX OUT	500 mV/5 kohms
CD DIGITAL OUT (Optical out)	-21 dBm - -15 dBm
Speaker terminals	4 - 16 ohms
Phones	16 ohms - 1 kohm
	0 - 15 mW/ch output into 32 ohms
Video Out (composite)	1.0 Vp - p (75 ohms)

CD Player

Signal-To-Noise Ratio	90 dB
Wow And Flutter	Unmeasurable
Playback Disc	Video CD (with/without Playback Control function), CD Graphics, Audio CD

Tuner

FM Tuner	
Tuning Range	87.50 MHz - 108.00 MHz
AM Tuner	
Tuning Range	531 kHz - 1, 710kHz (at 9 kHz channel space) 530 kHz - 1, 710kHz (at 10 kHz channel space)

Center Unit (CA-SD58V/SD78V/SD98V)

Dimensions	300mm × 75mm × 215mm (W/H/D)
Mass	Approx. 3.0kg

Speaker Specifications (each unit)

SP-SD58V

Speakers	8 cm cone
Impedance	4 ohms
Dimensions	100mm × 186mm × 193.5mm (W/H/D)
Mass	1.5kg

SP-SD78V

Speakers	8 cm cone
Impedance	4 ohms
Dimensions	137mm × 231mm × 141mm (W/H/D)
Mass	1.4kg

SP-SD98V

Speakers	8 cm cone
Impedance	4 ohms
Dimensions	135mm × 231mm × 141mm (W/H/D)
Mass	1.4kg

Accessories

Power Cord (1)
Remote Control (1)
Batteries R6P (SUM-3)/AA (15F) (2)
AM Loop Antenna (1)
FM Wire Antenna (1)
Speaker Cords (2)
Video Cord (1)
Spacers (6) (only for SP-SD78V/SD98V)
AC Plug Adaptor (except for Hong Kong) (1)

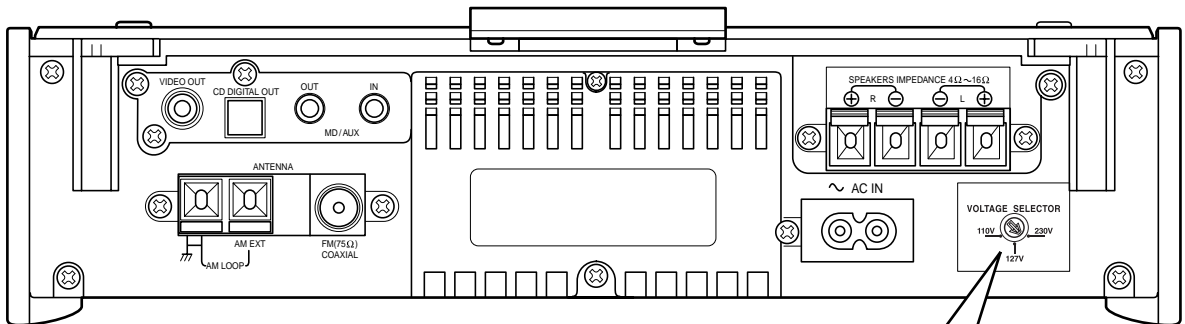
Power Specifications

Power Requirements	AC 110/127/230 V ~ adjustable with the voltage selector, 50/60 Hz
Power Consumption	28 watts (power on mode) 2 watts (in Standby mode)

Design and specifications are subject to change without notice.

Mains (AC) Line Instruction (not applicable for Europe, U.S.A., Canada, Australia, and U.K.)

主 (AC) 电源线路说明 (不适用于欧洲美国加拿大澳洲及英国型号)



IMPORTANT for mains (AC) line

BEFORE PLUGGING IN, do check that your mains (AC) line voltage corresponds with the position of the voltage selector switch provided on the outside of this equipment and, if different, reset the voltage selector switch, to prevent from a damage or risk of fire/electric shock.

有关主 (AC) 电源线路的重要事项

接插电源以前，务请检查当地的主 (AC) 电源线路电压是否位于本机外面的电压选择开关设定的位置一致。如果不一致，即重新设定电压选择开关使其符和当地电压，以免损坏机器或引起火灾/触电的危险。

VOLTAGE SELECTOR

