



# VCD MINI HI-FI System

## OWNER'S MANUAL

**MODEL : LM-V1060**

(LM-V1060A/S, LMS-V1060V)

**LM-V560**

(LM-V560A/S, LMS-V560V)

**LM-V360**

(LM-V360A/S, LMS-V360V)

Please read this manual carefully before operating your set.  
Retain it for future reference.

Designs and specifications are subject to change without notice for improvement.





**CAUTION**  
RISK OF ELECTRIC SHOCK  
DO NOT OPEN



**WARNING:** TO REDUCE THE RISK  
OF ELECTRIC SHOCK  
DO NOT REMOVE COVER (OR BACK)  
NO USER-SERVICEABLE PARTS INSIDE  
REFER SERVICING TO QUALIFIED SERVICE  
PERSONNEL.



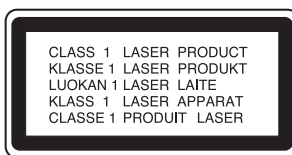
This lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

**CAUTION:** Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from over heating. The openings should be never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instruction have been adhered to.



**CAUTION:**

This Product employs a Laser System.

To ensure proper use of this product, please read this owner's manual carefully and retain for future reference, should the unit require maintenance, contact an authorized service location-see service procedure.

Use of controls, adjustments or the performance of procedures other than those specified herein may result in hazardous radiation exposure.

To prevent direct exposure to laser beam, do not try to open the enclosure. Visible laser radiation when open. DO NOT STARE INTO BEAM.

**CAUTION:** The apparatus shall not be exposed to water, dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

**CAUTION:**

VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED

**CAUTION concerning the Power Cord**

**Most appliances recommend they be placed upon a dedicated circuit;**

That is, a single outlet circuit which powers only that appliance and has no additional outlets or branch circuits. Check the specification page of this owner's manual to be certain.

Do not overload wall outlets. Overloaded wall outlets, loose or damaged wall outlets, extension cords, frayed power cords, or damaged or cracked wire insulation are dangerous. Any of these conditions could result in electric shock or fire. Periodically examine the cord of your appliance, and if its appearance indicates damage or deterioration, unplug it, discontinue use of the appliance, and have the cord replaced with an exact replacement part by an authorized servicer.

Protect the power cord from physical or mechanical abuse, such as being twisted, kinked, pinched, closed in a door, or walked upon. Pay particular attention to plugs, wall outlets, and the point where the cord exits the appliance.

## Table of Contents

### INTRODUCTION

Precautions .....	2
Table of Contents .....	3
Safety Precautions .....	4
Notes on Discs .....	4
Notes on Remote Control .....	4
Notes on Tapes .....	4
Front Panel/Rear Panel .....	5
Remote Control .....	6
Connections .....	7-8
Antenna (Aerial) Connections .....	7
Speaker System Connection .....	7
TV/Monitor Connections .....	8
Auxiliary Function .....	8

### BEFORE OPERATION

Setting the CLOCK .....	9
Sleep Function .....	9
Using Microphone .....	9
Timer Function .....	10
Audio Adjustment .....	11
Volume Adjustment .....	11
Sound Quality Adjustment .....	11
MUTE .....	11
SURROUND .....	11
XDSS (Extreme Dynamic Sound System) .....	11
DISPLAY MODE .....	11
DEMO .....	11
OAO (Orientation Acoustic Optimizer) .....	11
XTS Pro .....	11
MP3 Optimizer .....	11

### OPERATION

Presetting the radio stations .....	12
Listening to the radio .....	12
Tape Playback .....	13
Basic Playback .....	13
To Stop Play .....	13
To Play Rewind or Fast Forward .....	13
Dubbing .....	13
Recording .....	13
Basic Setting .....	13
Recording from Radio, CD or Auxiliary source .....	13
CD to Tape Synchronized Recording .....	13

CD/VCD Playback .....	14-19
Basic Playback .....	14
To Pause Play .....	14
To Stop Play .....	14
To Skip a Track or scene .....	14
To Search a track or scene .....	14
To Go to a Next Disc .....	14
To Select a Disc Directly .....	14
To Exchange Discs During Playback .....	14
Last Scene Memory Function .....	15
Time Search Function .....	15
Display Function .....	15
Multiplex Function .....	15
PBC Play (Playback Control Play) .....	15
Digest Playback .....	16
To Repeat Playback .....	17
Program Play Setup .....	17
MP3 Playback .....	18

KARAOKE .....	19
Karaoke Function .....	19
To Adjust ECHO Volume .....	19
To Change the Key (KEY CONTROL) .....	19
Recording with Karaoke .....	19

### Reference

System Selection (NTSC/PAL) .....	20
Discs Requirements .....	20
Troubleshooting .....	21
Specifications .....	22

### About the symbols for instructions




Indicates hazards likely to cause harm to the unit itself or other material damage.



Indicates special operating features of this unit.

### About the Symbol Display

“” may appear on the TV screen during operation. This icon means the function explained in this owner's manual is not available on that specific VCD video disc.

## Safety Precautions

### Handling the unit

#### When shipping the unit

The original shipping carton and packing materials come in handy. For maximum protection, re-pack the unit as it was originally packed at the factory.

#### To keep the surface clean

Do not use volatile liquids, such as insecticide spray, near the unit. Do not leave rubber or plastic products in contact with the unit for a long period of time. They will leave marks on the surface.

### Cleaning the unit

#### To clean the cabinet

Use a soft, dry cloth. If the surfaces are extremely dirty, use a soft cloth lightly moistened with a mild detergent solution. Do not use strong solvents, such as alcohol, benzene, or thinner, as these might damage the surface of the unit.

## Notes on Discs

### Handling discs

Do not touch the playback side of the disc.  
Hold the disc by the edges so that fingerprints will not get on the surface.  
Do not stick paper or tape on the disc.

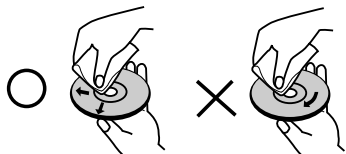


### Storing discs

After playing, store the disc in its case.  
Do not expose the disc to direct sunlight or sources of heat, or leave it in a parked car exposed to direct sunlight, as there may be a considerable temperature increase inside the car.

### Cleaning discs

Fingerprints and dust on the disc can cause poor picture quality and sound distortion. Before playing, clean the disc with a clean cloth. Wipe the disc from the center out.



Do not use strong solvents such as alcohol, benzene, thinner, commercially available cleaners, or anti-static spray intended for analog records.

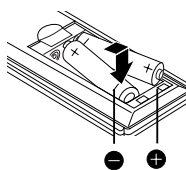
## Notes on Remote Control

### Remote Control Operation Range

Point the remote control at the remote sensor and press the buttons.

- **Distance:** About 23 ft (7 m) from the front of the remote sensor.
- **Angle:** About 30° in each direction of the front of the remote sensor.

### Remote control battery installation



Detach the battery cover on the rear of the remote control, and insert two R03 (size AAA) batteries with  $+$  and  $-$  aligned correctly.



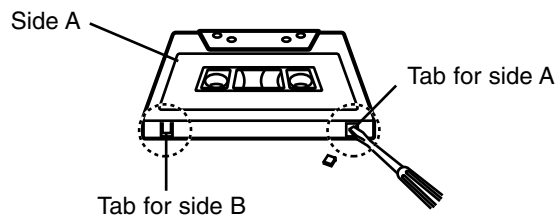
#### Caution

Do not mix old and new batteries. Never mix different types of batteries (standard, alkaline, etc.).

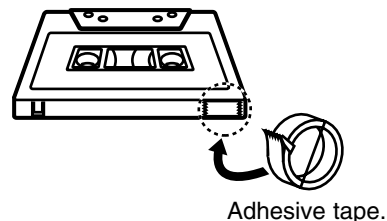
## Notes on Tapes

### Preventing record

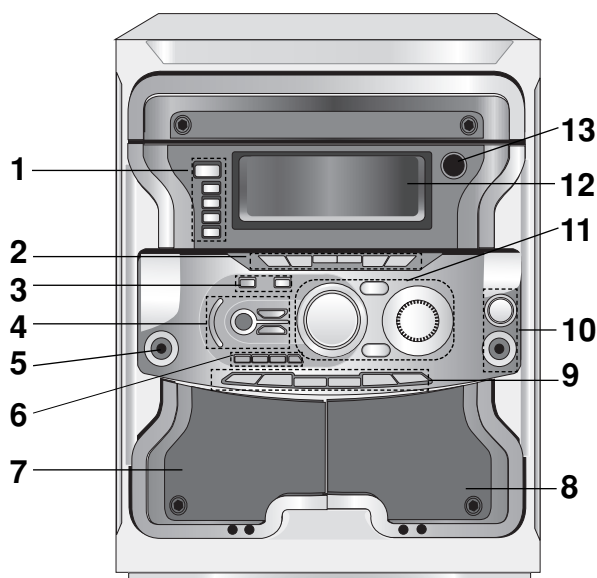
Removing the tab(s) of the cassette (with a small screwdriver) will prevent accidental erasure.



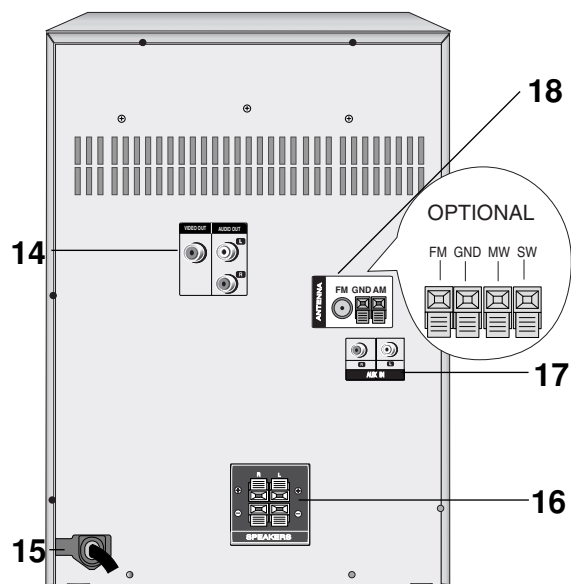
To record again, cover the hole of the tab with adhesive tape.



## Front Panel/Rear Panel

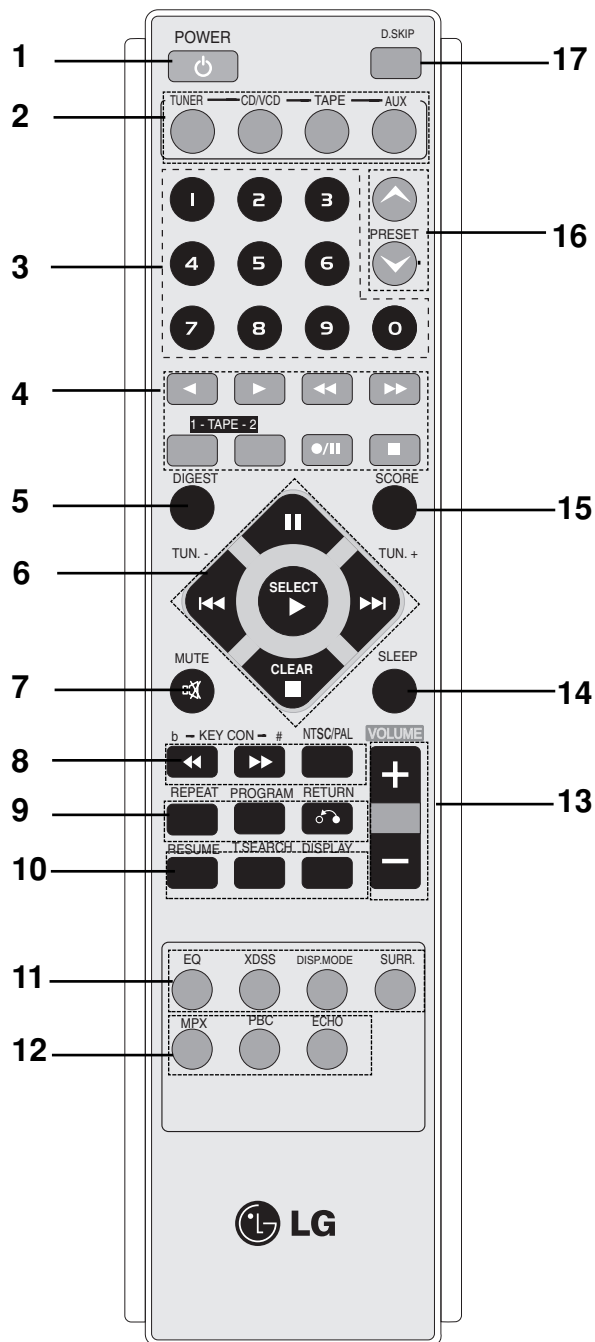


1. • POWER (⏻/STANDBY/ON) button  
• DISC SKIP (D.SKIP) button  
• DISC DIRECT PLAY buttons (DISC 1, DISC 2, DISC 3)
2. • PLAY MODE button  
• PBC button  
• MP3 OPTIMIZER button  
• DEMO button  
(Press **DEMO** in power off state to demonstrate the function in the display window. To cancel it, press **POWER** or **DEMO** again.)  
• PROG./MEMO./ENTER button  
• MODE/RIF/Hi-DUBB. button  
• CD SYNC./NOR-DUBB. button  
• SCAN MENU(-/+)(CD/ VCD)  
• CLOCK button  
• ⌚TIMER button
3. • CD OPEN (▲ OPEN) button  
• XTS-Pro button
4. • XDSS button  
• SURROUND (SURR.) button  
• OAO button
5. HEADPHONE JACK (PHONES) -  $\phi$  6.3mm
6. • TUNER button  
• TAPE button  
• CD/VCD button  
• AUX button
7. (▲ PUSH EJECT) position-TAPE 1 (DECK 1)
8. (▲ PUSH EJECT) position-TAPE 2 (DECK 2)



9. • STOP(■/CLEAR) button  
• RECORD/ RECORD PAUSE (● REC/||) button  
• PRESET UP/DOWN(TUNER) buttons  
• PLAY (SELECT▶) button  
• REVERSE PLAY (◀ RETURN) button  
• TUNING (◀◀◀◀/▶▶▶▶)(TUNER) buttons  
• CD SKIP (◀◀◀◀/▶▶▶▶) buttons  
• TAPE REWIND/FAST FORWARD (◀◀◀◀/▶▶▶▶) buttons
10. • MIC VOLUME KNOB (MIC VOL.)  
• MIC JACK (MIC) -  $\phi$  6.3mm
11. • VOLUME CONTROL KNOB  
• EQUALIZER (EQ) button  
• SET/CD PAUSE (SET/CD||) button  
• AM-NOISE button  
• MULTI JOG.
12. DISPLAY WINDOW
13. REMOTE SENSOR
14. VIDEO OUT/ AUDIO OUT JACKS
15. POWER CORD
16. SPEAKER TERMINAL
17. AUXILIARY INPUT JACK
18. ANTENNA TERMINAL

## Remote Control

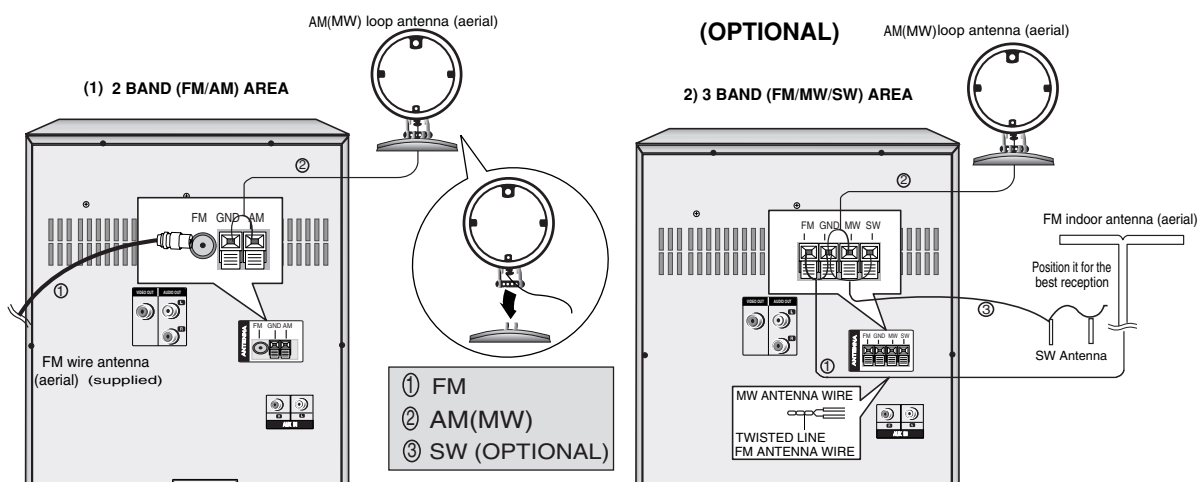


1. POWER button
2. Function select buttons  
(TUNER, CD/VCD, TAPE, AUX)
3. NUMERIC buttons (0-9)
4. TAPE FUNCTION buttons
  - REVERSE PLAY (◀)
  - PLAY (▶)
  - REWIND/ FAST FORWARD PLAY (◀◀/▶▶)
  - TAPE 1-2 SELECT buttons (1-TAPE-2)
  - RECORD/ RECORD PAUSE (●/||)
  - TAPE STOP (■)
5. DIGEST button
6. • PAUSE (||)
- STOP(CLEAR ■)
- PLAY (SELECT ▶) button
- TUN. (-/+) (◀◀/▶▶)
7. MUTE button
8. • KEY CONTROL buttons (b - KEY CON - # )
- SCAN MENU(-/+)
- NTSC/PAL button
9. • REPEAT buttons
- PROGRAM buttons
- RETURN (↺) button
10. • RESUME buttons
- T. (Time) SEARCH button
- DISPLAY button
11. • EQ PATTERN (EQ) button
- XDSS button
- DISPLAY MODE (DISP.MODE) button
- SURROUND (SURR.) button
12. • MPX button
- PBC button
- ECHO button
13. VOLUME(-/+) buttons
14. SLEEP button
15. SCORE button
16. PRESET ( V/A ) buttons
17. DISC SKIP (D.SKIP) button

## Connections

### Antenna (Aerial) Connections

Connect the supplied FM/AM(MW) (or SW : OPTIONAL) antennas for listening to the radio.

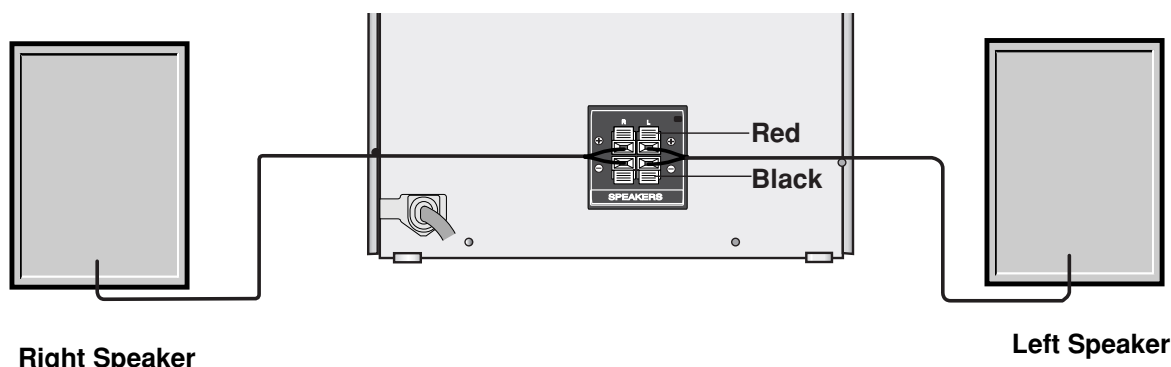


#### Notes

- To prevent noise pickup, keep the AM loop antenna away from the unit and other components.
- Be sure to fully extend the FM antenna wire.
- After connecting the FM antenna wire, keep it as horizontal as possible.

### Speaker System Connection

Connect the speaker cords to the speaker terminals.

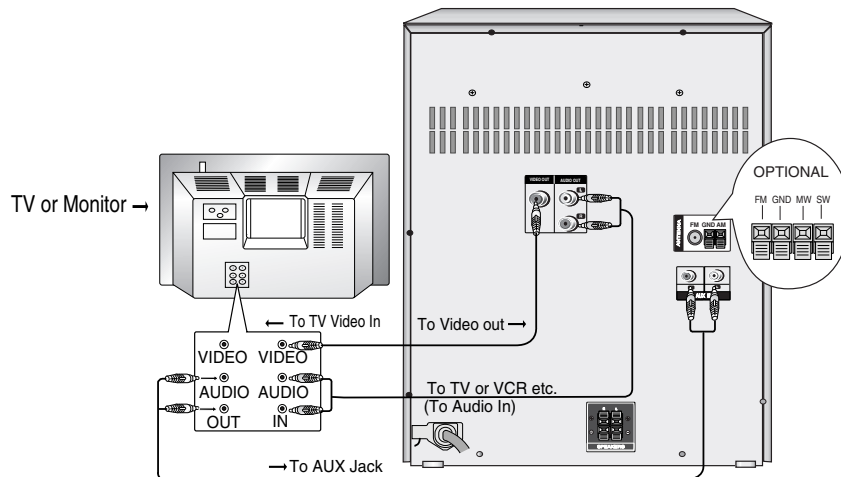


#### Notes

- Be sure to match the speaker cord to the appropriate terminal on the components: + to + and – to –. If the cords are reversed, the sound will be distorted and will lack base.
- If you use front speakers with low maximum input rating, adjust the volume carefully to avoid excessive output on the speakers.
- Do not disassemble the front cover of supplied speaker.

## Connections

### Connecting to a TV/Monitor



#### VIDEO OUT jack connection

Connect the VIDEO OUT jack on the back of the unit to a VIDEO IN jack of a TV or monitor.

#### AUDIO OUT jacks connection

Connect the AUDIO OUT jack on the back of the unit to a AUDIO IN jack of a TV or monitor.

#### AUX jacks connection

Two phones jacks marked AUX are provided on the back of the unit for connecting other units. (For example, a record player with a pre amplifier, video recorder or tape recorder.)

#### Notes

- Refer to the owner's manual of your TV as well.
- When you connect the unit to your TV, be sure to turn off the power and unplug both units from the wall outlet before making.

### Auxiliary Function

- 1 Connect an auxiliary device i.e. TV or VCR to the rear mounted AUX phone sockets.
- 2 Press **AUX**.

#### Note

You can also record from the auxiliary input source, see Recording Section.



## Setting the CLOCK

- 1 Press CLOCK.  
(If the clock requires setting, press and hold CLOCK for more than 2 seconds.)  
- The hours begin to blink.
- 2 Select a 24 hour cycle or 12 hour cycle by turning MULTI JOG.



(12HR)

or



(24HR)

- 3 Press SET to confirm the selected hour cycle.
- 4 Use MULTI JOG. to set the correct hours.
- 5 Press SET.
- 6 Use MULTI JOG. to set the correct minutes.
- 7 Press SET and the correct time is shown on the display.
- 8 Press CLOCK at any time briefly to see the time.

## Sleep Function

When the sleep timer is used, the power is automatically turned off after the specified time has elapsed.

- 1 **To specify the time delay before the power is turned off, press SLEEP.**  
In the display window you can see *SLEEP 90* for about 5 seconds. This means that the system turns off automatically after 90 minutes. Each time the button is pressed the time interval before it turns off is reduced by 10 minutes. i.e. 80...70... etc. Select the desired time to turn off.
- 2 **To check the remaining time until the power is turned off.**  
While the sleep function is active press **SLEEP** briefly. The time remaining until it turns off is displayed for about 5 seconds.

### Note

If you press **SLEEP** while the sleep time is displayed, the SLEEP time is reset.

### To cancel the sleep timer mode

If you wish to stop the function, press the **SLEEP** button repeatedly until *SLEEP 10* appears, and then press **SLEEP** once again while *SLEEP 10* is display.

## Using Microphone

You can sing to a music source by connecting a microphone to the unit.

- 1 Connect your microphone (not supplied) to the MIC Jack.
- 2 Play a music you want.
- 3 Sing along with the accompaniment.  
Adjust the microphone volume by turning MIC VOLUME KNOB.

### For your reference

You can record during using microphone.  
Refer to the "Recording" explanation section.

### Notes

- When not using the microphone, set the MIC volume knob to minimum or turn off the MIC and remove the microphone from the MIC socket.
- If the microphone is set too near the speaker, a howling sound may be produced. In this case, move the microphone away from the speaker or decrease the sound level by using the MIC volume control.
- If sound through the microphone is extremely loud, it may be distorted. In this case, turn the MIC volume control toward minimum.

## Timer Function

The unit can set the clock function in power on/off state.

With the **TIMER** function you can have the radio reception and recording, CD play, tape play, or turned on and off at the time desired.

- 1 Press **CLOCK** to check the current time.

### For your reference

If you don't set clock, timer function doesn't work.

- 2 Press **TIMER** to enter the timer setting mode.  
TUNER-CD-TAPE flashes in the display window in turn.

### For your reference

If you want to correct the previous memorized **TIMER** setting, press and hold the **TIMER** button more than 2 seconds.

- The previous memorized timer on time and **TIMER** indicators appear in the display.

- 3 Press **SET** when the desired function is blinking.
- 4
  - a. When you select the **TUNER** function, 'PLAY' and 'REC' indicator blink in the display window alternately for about 3 seconds.  
'PLAY' indicator : TUNER play only  
'REC' indicator : TUNER play and recording
  - b. Select the previous memorized preset number with **MULTI JOG.** and press **SET**.  
- 'ON TIME' indicator appears for about 0.5 seconds in the display window and then disappears.
2. When you select the **CD** or **TAPE** function,  
- 'ON TIME' indicator appears for about 0.5 seconds in the display window and then disappears.
- 5 Set the hour to switch on by turning **MULTI JOG.**
- 6 Press **SET** to confirm the hour to switch on.
- 7 Set the minute to switch on by turning **MULTI JOG.**

- 8 Press **SET** to confirm the minute to switch on. 'OFF TIME' indicator appears for about 0.5 seconds in the display window and then disappears.
- 9 Set the hour to switch off by turning **MULTI JOG.**
- 10 Press **SET** to confirm the hour to switch off.
- 11 Set the minute to switch off by turning **MULTI JOG.**
- 12 Press **SET.**
- 13 Adjust the volume level by turning **MULTI JOG.**
- 14 Press **SET.**  
"⌚" appears in the display window and the timer setting has been completed.
- 15 Switch the system off.  
The selected function is automatically switched on and off at the time set.

### To cancel or check the timer

Each time the **TIMER** button is pressed you can select the timer set or cancel. You can also check the timer setting status.

To activate or check the timer, press the **TIMER** button so that "⌚" appears in the display window. To cancel the **TIMER**, press the **TIMER** button so that "⌚" disappears in the display window.

MP3 OPT ON ↔ MP3 OPT OFF

## Presetting the radio stations

You can preset 50 stations for FM/AM(MW) (or SW : OPTIONAL). Before tuning, make sure that you have turned down the volume to the minimum.

- 1 Press **TUNER** to select the frequency FM/AM(MW) (or SW : OPTIONAL) you want.  
Every time you press this button, FM/AM(MW) (or SW : OPTIONAL) changes alternately.
- 2 Press **◀◀◀/▶▶▶** buttons on the front panel until the frequency indication starts to change.

### Notes

#### • Automatic Tuning

Press the **◀◀◀/▶▶▶** buttons.  
- Scanning stops when the unit tunes in a station.

#### • Manual Tuning

Use the **MULTI JOG**.

- 3 Press **PROG./MEMO.** on the front panel .  
A preset number will flash in the display window.
- 4 Press **(RETURN◀)/(SELECT▶)** buttons (or **PRESET (▼/▲)** on the remote control) to select the preset number you want
- 5 Press **PROG./MEMO.** on the front panel.  
The station is stored.
- 6 Repeat steps 2 to 5 to store other stations.

### To clear all the memorized stations

Press and hold **PROG./MEMO.** on the front panel for about two seconds, "CLEAR" appears on the display window and then press **CLEAR**, the stations are cleared.

### For your reference

If all stations have already been entered, **FULL** message will appear in the display window for a moment and then a preset number will blink. To change the preset number, follow the steps 4-5.

### To recall presets

Press and hold **(RETURN◀)/(SELECT▶)** buttons (or **PRESET (▼/▲)** on the remote control) until the desired preset number appears or press it

## Listening to the radio

- 1 Press **TUNER** to select either **AM** or **FM** /(SW) : (OPTIONAL) in the display window.  
The last received station is tuned in.
- 2 Press **(RETURN◀)/(SELECT▶)** buttons (or **PRESET (▼/▲)** on the remote control) repeatedly to select the preset station you want.  
- Each time you press the button, the unit tunes in one preset station at a time.
- 3 Adjust the volume by rotating **VOLUME CONTROL KNOB** (or pressing **VOLUME (▼/▲)** on the remote control) repeatedly.

### To listen to non-preset radio stations

- Use manual or automatic tuning in step 2.
- For automatic tuning, press and hold **◀◀◀/▶▶▶** buttons on the front panel.

### To turn off the radio

Press **POWER** to turn the unit off or select another function mode (**CD/VCD**, **TAPE** or **AUX**).

### For your reference

- If an FM program is noisy  
Press **MODE/RIF** so that "MONO" appears on the display window. There will be no stereo effect, but the reception will be improved. Press **MODE/RIF** again to restore the stereo effect.
- To improve reception  
Repose the supplied antennas.

### Notes

- Use **MODE/RIF** (Radio Interference Filter) function to switch to mono reception if stereo reception is distorted by noise.
- When recording the MW(AM) broadcast, beat noises may occur. If it does, press **MODE/RIF** once.
- When listening the MW(AM) broadcast, beat noises may occur. If it does, press **AM-NOISE** once.  
Each time you press **AM-NOISE** the setting changes in the following order.

AM - NOISE ON ↔ AM NOISE OFF

## Tape Playback

### Basic Playback

- 1 Press TAPE 1/2 to select TAPE 1 or TAPE 2.  
("NO TAPE" appears in the display window.)
- 2 Open cassette TAPE 1 (or 2) by pushing  
(▲ PUSH EJECT) position.
- 3 Insert one or two cassette with the tape side to the  
bottom and then close the TAPE 1 (or 2).
- 4 Press (SELECT▶).

### AUTO STOP DECK (TAPE 1/2)

After auto stop deck plays only front side, the unit stops automatically.

### AUTO REVERSE DECK (TAPE 2):OPTIONAL

You can select direction of the cassette you want by pressing PLAY MODE.

Pressing	Display	Function
Once	↔	After the cassette plays front or reverse(backward play) side, stops automatically.
Twice	↔↔	After the cassette plays front and reverse side, stops automatically.
Three times	↔↔↔	After the cassette plays six times repeatedly front and reverse side, stops automatically.

### To Stop Play

Press STOP(■/CLEAR) during playback.

### To Play Rewind or Fast Forward

After pressing ◀◀◀◀/▶▶▶▶ on the front panel or ◀◀/▶▶ on the remote control during playback, press (SELECT▶) at the point you want.

### Dubbing

This function shows how to record from tape to tape.

- 1 Press TAPE 1/ 2.
  - Cassette TAPE 1- Insert a playback tape to dub.
  - Cassette TAPE 2- Insert a blank tape.
- 2 Press NOR-/ HI-DUBB. as follow.  
To stop recording, press STOP(■/CLEAR).

Pressing	Display	Function
NOR-DUBB.	DUBB.	Normal speed dubbing
	NOR DUBB	
HI-DUBB.	HI-SP. DUBB.	Double speed dubbing
	HI DUBB	

## Recording

### Basic Setting

- 1 Press CD/VCD or TUNER.
- 2 Open the cassette TAPE 2 and insert a blank cassette into the cassette compartment.  
Set the recording direction : OPTIONAL  
Press PLAY MODE repeatedly to set the recording direction.

### Recording from Radio, CD or Auxiliary source

- 1 Press (●REC/||) on the front panel.  
"●REC" blinks and holds the cassette in pause mode.
- 2 Press (SELECT ▶) on the front panel.  
The recording begins.

### To Pause recording

To pause the recording, press (●REC/||) on front panel

"●REC" blinks on the display window.

### To Stop recording

Press STOP(■/CLEAR).

### CD to Tape Synchronized Recording

The CD synchro recording function dubs a complete CD and programmed titles automatically into a cassette.

- 1 Press CD SYNC. in stop mode.  
"●REC" blinks and CD SYNC. is lit on the display window.
- 2 The synchronized recording is started automatically after about 7 seconds.

### Note

If you wish to record the desired track, select the desired track with ◀◀◀◀/▶▶▶▶ before commencing CD synchro recording.

## CD/VCD Playback

### Preparation

#### In case of using a TV

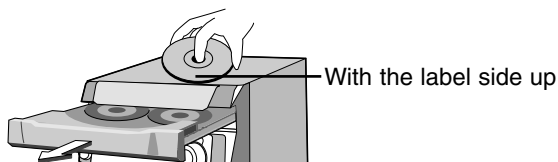
Turn on the TV and select the video input so that you can view the pictures from this unit.

#### In case of using an amplifier

Turn on the amplifier and select the CD player position so that you can listen to the sound from this unit.

### Basic Playback

- 1 Press **POWER** to turn on the unit.
- 2 Press the **CD/VCD** button to select CD function.  
If no disc is in the disc drawer, the "NO DISC" indicator appears.
- 3 Press **CD OPEN/CLOSE** (▲) and place the disc into the disc tray.  
The disc on the left (DISC 1) is played first.



#### Note

To load an 8cm (3 inch) disc, put it onto the inner circle of the tray.

- 4 Press **CD OPEN/CLOSE** (▲) to close the disc compartment.
- 5 Press **(SELECT ►)**.

### To Pause Play

Press **CD PAUSE** (■) or **PLAY/ PAUSE** (■) during playback.

Press the button again to resume play.

### To Stop Play

Press **■/CLEAR** during playback.

### To Skip a Track or scene

- Turn **MULTI JOG** to select the track.
- Press **►► ►►** button to go to the next scene or track.
- Press **◄◄ ◄◄** button to go to the back preceding scene or track.

### To Search a track or scene

Press **SCAN MENU**(-/+ ) repeatedly during playback.(Not used in MP3 file CD)  
(When a desired scene is displayed, press **(SELECT ►)**.

(TV screen)

FR X 1

FF X 1

- The speed of advance (reverse) is relatively slow at first. When the button is pressed again, the speed becomes faster. (Each time the button is pressed, the speed increases up to 4 steps.)
- The speed will be retained even after the button is released.

### To Go to a Next Disc

Press **D.SKIP** during playback or in Stop mode.

### To Select a Disc Directly

Press **DISC 1**, **DISC 2** or **DISC 3** during playback or in Stop mode.

When you press DISC 1-3 before playing a disc, the unit will automatically start playing the selected disc.

### To Exchange Discs During Playback

You can open the disc tray while playing a disc to check what discs are to be played next and exchange discs, without interrupting playback of the current disc.

- 1 Press **CD OPEN/CLOSE** (▲).  
The disc tray is opened. Two disc compartments appear. Even if the unit is playing a disc, it doesn't stop playing.
- 2 Replace discs in the compartments with other ones.  
The unit plays the disc in the left compartment after the current disc, and then the one in the right compartment.
- 3 Press **CD OPEN/CLOSE** (▲).  
The CD door closes.

#### Notes

- Do not place more than one compact disc on one disc tray at the same time.
- Do not push on the disc tray to close CD door, you may damage the unit.

## CD/VCD Playback

### Last Scene Memory Function

The unit memorizes the point you stopped a VIDEO CD and you can resume playback from that point. It is not available during playing an audio CD.

- 1 Press **STOP** (■) during playback.
- 2 Press **RESUME** on the remote control.
  - The unit starts playback from the point you stopped the VIDEO CD in step 1.
  - "RESUME" appears on the TV screen.
- 3 Press **CD OPEN/CLOSE** (▲) and place the disc into the disc tray.  
The disc on the left (DISC 1) is played first.

### Time Search Function

This function lets you use elapsed time as a guide to find a certain point on a VIDEO CD. Time Search function is especially useful when playing discs that have only a few track divisions.

- 1 Press **T.SEARCH** during playing or stopping.  
(TV screen)

TIME SEARCH \_:\_:\_

- 2 Press the **NUMERIC** buttons to enter the time of the point that you want to locate.  
Playback is started automatically from the entered time.

TIME SEARCH 22:15

#### For your reference

This function can not be used during Digest Play, AUDIO CD and VIDEO CD with PBC function (Version 2.0 discs).

### Display Function

- Press **DISPLAY** during playing.
  - You can view the elapsed time per a track.
- Press **DISPLAY** again during playing.
  - You can view the remained time per a track.
- Press **DISPLAY** once more during playing.
  - You can view the total remained time on the disc.

### Multiplex Function

You can select the sound from the right or left channel and listen to the sound of the selected channel through both the right and left speakers. In this case, the sound loses the stereo effect.

#### Press MPX during playing a disc.

Each time you press the button, the indication and the sound from the speakers change as follows.

Pressing	Screen	Function
Once	MONO L	You can hear the sound of the left channel.
Twice	MONO R	You can hear the sound of the right channel.
Three times	STEREO	You can hear the standard stereo sound.

#### Notes

- This screen doesn't appear on the display window.
- This function doesn't work for TUNER, TAPE and AUX functions.

### PBC Play (Playback Control Play)

- When playing VIDEO CD with PBC functions (Version 2.0 discs), you can enjoy playing simple interactive software, software with search functions, etc.
- PBC play allows you to play VIDEO CD interactively, following the menu screen on the TV screen.
- Also refer to the instructions supplied with the disc, as the operating procedure may differ according to the VIDEO CD.

- 1 Insert VIDEO CD with PBC function, press **(SELECT ►)**.  
"PBC" appears in the display window.
- 2 Select the menu number you want by pressing **NUMERIC** buttons on the remote control.  
The selected item is now executed.  
(Or Select the menu number you want by pressing the **SCAN MENU** (-/+) on the front panel, and then press or **SELECT ►** button.)

#### To Stop play

Press **CLEAR** (■) during playback.

#### To go the next of a menu

Press **SCAN MENU(+)** and then **(SELECT ►)**.

#### To go back to a previous menu

Press **SCAN MENU(-)** and then **(SELECT ►)**.

#### To go back to the top of a menu

Press **RETURN** (⏮).



## CD/VCD Playback

### Digest Playback

#### Notes

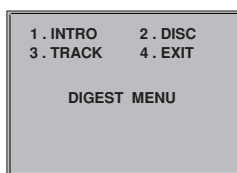
- This function is not used in MP3 file CD.
- If you start Digest play before you start playing a VIDEO CD with PBC functions, the unit automatically starts playing without PBC functions.

### Basic Setting

You can locate the disc or scene you want by observing several still pictures at one time on the TV screen.

#### Press DIGEST during stopping.

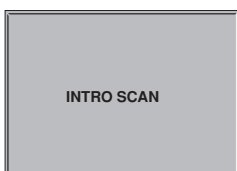
The following menu appears on the TV screen.



### Intro Scan Playback

#### Press NUMERIC button 1.

- This function only plays 10 seconds the beginnings of each track or scene on the disc.



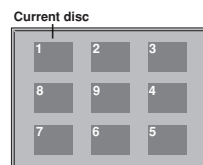
- In case of audio CD, you can only hear a sound.
- In case of VIDEO CD, you will also see a scene.

### Disc Digest Playback

You can locate the track you want by observing the first picture of 9 tracks on the disc at one time on the TV screen.

#### 1 Press NUMERIC button 2.

During playing a VIDEO CD, the TV screen shows still picture of the first scenes of tracks 1 to 9.



To view still pictures of the tracks of the tracks numbered over 9 Press ►►►►.

- The TV screen shows still pictures of tracks 10 to 18.
- To go back to the previous screen, press ◀◀◀◀.

#### 2 Press NUMERIC buttons to select the track you want.

The unit starts playing from the selected track.

#### To cancel Disc digest playback

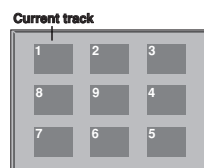
Press CLEAR (■).

### Disc Track Playback

You can locate the point you want by observing first picture of 9EA of each section at one time on the TV screen. This might be useful when you play a disc which is divided into a few tracks, such as a movie.

#### 1 Press NUMERIC button 3.

During playing a VIDEO CD, the unit divides the track into 9 sections and TV screen shows still pictures of each section in order.



#### For your reference

To view sections of another track, press ►►►► such as Disc digest play.

#### 2 Press NUMERIC buttons to select the point you want.

The unit starts playing from the selected point.

#### To cancel Disc track play

Press CLEAR (■).



## CD/VCD Playback

### To Repeat Play

**NOTE:** The repeat play dose not work in PBC ON status of the VIDEO CD with PBC function (Version 2.0)

#### To play one track repeatedly

Press **REPEAT** once during playback.

- "1" appears on the display window.

#### To play one disc repeatedly

Press **REPEAT** again during playback.

- "1 DISC" appears on the display window.

#### To play all tracks on all discs repeatedly

Press **REPEAT** once more during playback.

- "ALL DISC" appears on the display window.

### To cancel repeat play

- Press **REPEAT** several times until repeat indicator disappears.

### Program repeat play

- Press **REPEAT** once during program play.
  - "1" appears on the display window. (One track repeat)
- Press **REPEAT** again during program play.
  - "ALL DISC" appears on the display window. (All program repeat)

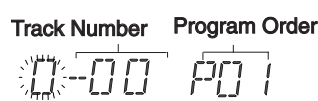
## Program Play Setup

You can arrange the order of the tracks on the discs and create your own program. The program can contain up to 20 tracks.

### Notes

- The program playback does not work in PBC ON status of the VIDEO CD with PBC function (Version 2.0).
- This function is not available to MP3 discs.

- 1 Press **PROG./MEMO.** (or **PROGRAM** on the remote control) in the Stop mode.



- 2 Press **D.SKIP** or **DISC DIRECT PLAY (DISC1/2/3)** to select the disc.



- 3 Use **◀◀◀/▶▶▶** or turn **MULTI JOG.** to select the track.

In case of using NUMERIC (0~9) button, press "0" and "3".



- 4 Press **PROG./MEMO.** (or **PROGRAM** on the remote control).
- 5 Repeat steps 1~5 to select additional discs and tracks.
- 6 Press **(SELECT ▶)**.

### To check program contents

Press **PROG./MEMO.** (or **PROGRAM** on the remote control) in Stop mode.

- A disc, track and program number will be displayed.

### To clear program contents

Press **PROG./MEMO.** (or **PROGRAM** on the remote control) in stop mode. Then press **CLEAR** on the front panel or **CLEAR (■)** on the remote control.

### To add program contents

1. Press **PROG./MEMO.** (or **PROGRAM** on the remote control) repeatedly in the program Stop mode until "Disc Number" blinks.
2. Repeat steps 2~5 as shown to the above.

### To modify program contents

1. Use **PROG./MEMO.** (or **PROGRAM** on the remote control) to display program number you want to modify.
2. Repeat steps 2~5 as shown to the above.

## CD/VCD Playback

### MP3 Playback

#### 1 Load an MP3 disc.

The ROOT directory menu is displayed on the TV screen.

FOLDER : ROOT	
PAGE 01/ 01	
→ROOT	FOLDER00
FOLDER02	FOLDER03
FOLDER04	FOLDER05
FOLDER06	FOLDER07

#### 2 Press **◀◀◀◀/▶▶▶▶** to select the directory where MP3 files that you want to play are located and then press **(SELECT▶)**.

MP3 FILE : ROOT	
PAGE 01/ 02	
→FILE001	FILE002
FILE003	FILE004
FILE005	FILE006
FILE007	FILE008

#### 3 Press **◀◀◀◀/▶▶▶▶** to select the desired MP3 file of the selected directory on the disc.

MP3 FILE : ROOT	
PAGE 01/ 02	
FILE001	FILE002
FILE003	→FILE004
FILE005	FILE006
FILE007	FILE008

#### 4 Press **(SELECT▶)** to start playback of a file.

##### For your reference

- Press **◀◀◀◀/▶▶▶▶** to play the next file or previous file during playback.
- Press **RETURN(↵)** to move to the ROOT directory during playback.

##### Notes

- The directory and file name is only displayed in English.
- If you select another file by pressing **◀◀◀◀/▶▶▶▶** during playback, the file is played after 5 seconds automatically.

##### To Play an MP3 file repeatedly

- If you press **REPEAT** once during playback, the current MP3 file will play repeatedly.  
“**🔄 1**” appears in the display window.
- If you press **REPEAT** twice during playback, the all MP3 files on the disc will play repeatedly.  
“**🔄 1 DISC**” appears in the display window.
- If you press **REPEAT** three times, the repeat play will be cancelled.

##### For your reference

- Press **◀◀◀◀/▶▶▶▶** to play the next file or previous file during playback.
- Press **PAUSE (⏸)** to enter the pause mode, press **(RETURN◀)** or **PAUSE (⏸)** again to return to normal playback.
- Press **CLEAR (■)** to stop the playback.

##### About MP3

- An MP3 file is audio data compressed by using the MPEG1 audio layer-3 file-coding scheme. We call files that have the “.mp3” file extension “MP3 files”.
- The unit can not read an MP3 file that has not “.mp3” file extension.

##### MP3 Disc compatibility with this unit is limited as follows:






1. Sampling Frequency / 32 - 48kHz(MP3)
2. Bit rate / 64 - 192 kbps(MP3)
3. CD-R physical format should be “ISO 9660”
4. If you record MP3 files using the software which cannot create a FILE SYSTEM, for example “Direct-CD” etc., it is impossible to playback MP3 files. We recommend that you use “Easy-CD Creator”, which creates an ISO 9660 file system.
5. File names should be named using 30 letters or less and must incorporate “.mp3” extension e.g. “\*\*\*\*\*.MP3”.
6. Do not use special letters such as “/ : \* ? “ < > ” etc.
7. Even if the total number of files on the disc have more than 1000, it will only be shown up to 999.

## KARAOKE



### Karaoke Function

You can play KARAOKE(singing along) with CD by connecting a microphone to the unit.

You can enjoy KARAOKE with a stereo-recorded disc, even if it is a non-karaoke disc, by reducing the singer's voice.

- 1 **Press (  STANDBY/ON) to turn on the player.**
- 2 **Select the CD/VCD function.**
- 3 **Press CD OPEN/CLOSE() to open the disc compartment, load a disc with the label side up.**  
In case of a VIDEO CD with PBC functions, "PBC" appears in the display window. Press **PBC** to cancel it.
- 4 **Connect your microphone to the MIC jack.**  
Turn the MIC VOLUME knob to adjust the microphone volume.
- 5 **Press FANFARE (OPTIONAL)/SCORE to enter the karaoke mode.**  
In case of Video CD, "KARAOKE" appears in the screen.
- 6 **Select the desired track number on the disc by pressing   (or turning MULTI JOG**  
.  
If you press the NUMERIC buttons, the playback is started automatically.
- 7 **Press (SELECT .**  
Sing along with the accompaniment.

#### For your reference

To play the next, press   or turn **MULTI JOG** again.

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##### Come out the Fanfare (OPTIONAL) & Score

If the track playback is finished, the score will appear on the screen, and if you take the score 70 points and over the fanfare sound comes out. And the unit will automatically pause after playing back of each track.

### To Adjust ECHO Volume

You can give an echo effect to the sound from the microphone.

- **Press ECHO repeatedly to adjust the strength of echo.**  
ECHO-1, ECHO-2 or ECHO-3 is displayed in the display window.
- **To cancel it, set the echo indication disappear in the display window.**

### To Change the Key (KEY CONTROL)

You can change the key to suit your vocal range.

**Press KEY CONTROL (b - KEY CON - # ) buttons repeatedly to find the key that suits your vocal range.**

You can adjust the key to 15 steps (7 higher steps , 7 lower steps and the original key).  
- The setting appears on the screen.

### Recording with Karaoke

You can record during playing KARAOKE.  
Refer to the "RECORDING" explanation section.

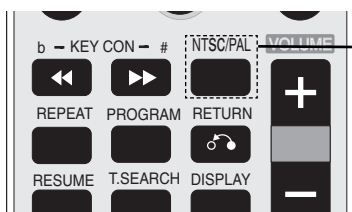
#### otes

- **If howling occurs**  
Move the microphone(s) away from the TV or the speakers.  
-Lower the volume of the TV or the mic volume.  
-Cancel ECHO function.
- **If the sound is distorted when the unit is connected a TV**  
-Cancel ECHO function.
- **If sound through the microphone is extremely loud it may be distorted.** In this case turn the MIC volume toward minimum and set to "ECHO OFF" by pressing **ECHO**.

## System Selection (NTSC/PAL)

You can enjoy NTSC or PAL discs by using the **NTSC/PAL** button to choose the appropriate system.

- If you try to play back PAL disc with NTSC-TV. The unit will not play back the disc.
- When the system of your unit does not coincide with the system of your TV, normal color picture may not be displayed.
- When you play back NTSC disc with PAL-TV, some discs may produce black bands at the top and bottom of the screen.



NTSC/PAL

Position of System Select	Connected TV	Available disc
PAL	PAL	PAL VCD disc
NTSC	NTSC	NTSC VCD disc
NTSC or PAL	MULTI system TV	NTSC/PAL disc



## Disc Requirements

This unit can play back the following discs.

This equipment has been designed to play discs bearing the identification logo shown as below.

CD: compact disc recorded only with digital audio signals.

VIDEO CD : compact disc recorded with compressed digital audio and video signals.

	Disc mark	Contents	Disc Size	Maximum Playback Time
Video CD		Audio + Video	12 cm	74 minutes
			8 cm	20 minutes
Audio CD		Audio	12 cm	74 minutes
			8 cm	20 minutes

In addition, this unit can play a CD-R or CD-RW that contains audio titles or MP3 files.

Notes on VIDEO CD		CAUTION
This player conforms to Version 1.1 and Version 2.0 of VIDEO CD standards. You can enjoy two kinds of playback according to the discs type.		<ul style="list-style-type: none"> <li>• Small impact while video disc is playing can cause abnormality on pictures.</li> <li>• Because video disc reproduces data compressed in 1/100 of regular disc, even a minor scratch on its surface can cause enormous influence on video and audio and even make the disc unusable. Therefore, much more care is required.</li> <li>• A mosaic with faint checker pattern can appear on the pictures with many movements and detailed motion, however, this is not a defect.</li> </ul>
Disc Type	You can	
VIDEO CD without PBC functions (Version. 1.1 disc)	Enjoy video playback (moving pictures) as well as music.	
VIDEO CD with PBC functions (Version 2.0 discs)	Play interactive software using menu screens displayed on the TV screen, in addition to the video playback function of Version 1.1 discs.	

### Notes

- Discs should be kept clean at all times. -Stains, scratches and dust on disc's surface cause bad quality video and audio.
- Never touch disc's surface.
- Depending on the conditions of the recording equipment or the CD-R/RW disc itself, some CD-R/RW discs cannot be played on the unit.

## Troubleshooting

Check the following guide for the possible cause of a problem before contacting service.

Symptom	Cause	Possible Solution
No power.	<ul style="list-style-type: none"> <li>The power cord is disconnected.</li> </ul>	<ul style="list-style-type: none"> <li>Plug the power cord into a wall power outlet securely..</li> </ul>
No picture.	<ul style="list-style-type: none"> <li>The TV is not set to receive VCD signal output.</li> </ul>	<ul style="list-style-type: none"> <li>Select the appropriate video input mode on the TV so the picture from the unit appears on the TV screen.</li> </ul>
	<ul style="list-style-type: none"> <li>The video cable is not connected securely.</li> </ul>	<ul style="list-style-type: none"> <li>Connect the video cables into the jacks securely.</li> </ul>
	<ul style="list-style-type: none"> <li>The connected TV power is turned off.</li> </ul>	<ul style="list-style-type: none"> <li>Turn on the TV.</li> </ul>
There is no sound or only a very low-level sound is heard.	<ul style="list-style-type: none"> <li>The audio cables are not connected securely.</li> </ul>	<ul style="list-style-type: none"> <li>Insert the audio cable into the jacks securely.</li> </ul>
	<ul style="list-style-type: none"> <li>The power of the equipment connected with the audio cable is turned off.</li> </ul>	<ul style="list-style-type: none"> <li>Turn on the external equipment connected with the audio cable.</li> </ul>
	<ul style="list-style-type: none"> <li>The audio connecting cord is damaged.</li> </ul>	<ul style="list-style-type: none"> <li>Replace it with new one.</li> </ul>
The playback picture is poor.	<ul style="list-style-type: none"> <li>The disc is dirty.</li> </ul>	<ul style="list-style-type: none"> <li>Clean the disc.</li> </ul>
The unit does not start playback.	<ul style="list-style-type: none"> <li>The disc is placed upside down.</li> </ul>	<ul style="list-style-type: none"> <li>Place the disc with the playback side down.</li> </ul>
	<ul style="list-style-type: none"> <li>The disc is not placed within the guide.</li> </ul>	<ul style="list-style-type: none"> <li>Place the disc on the disc tray correctly inside the guide.</li> </ul>
	<ul style="list-style-type: none"> <li>The disc is dirty.</li> </ul>	<ul style="list-style-type: none"> <li>Clean the disc.</li> </ul>
Severe hum or noise is heard.	<ul style="list-style-type: none"> <li>The plugs and jacks are dirty.</li> </ul>	<ul style="list-style-type: none"> <li>Wipe them with a cloth slightly moistened with alcohol.</li> </ul>
	<ul style="list-style-type: none"> <li>The disc is dirty.</li> </ul>	<ul style="list-style-type: none"> <li>Clean the disc.</li> </ul>
	<ul style="list-style-type: none"> <li>The speakers and components are connected poorly.</li> </ul>	<ul style="list-style-type: none"> <li>Connect the speakers and components securely.</li> </ul>
	<ul style="list-style-type: none"> <li>The unit is located with TV nearby.</li> </ul>	<ul style="list-style-type: none"> <li>Move your TV away from the audio components.</li> </ul>
Recording cannot be done.	<ul style="list-style-type: none"> <li>The components are connected incorrectly.</li> </ul>	<ul style="list-style-type: none"> <li>Connect the components correctly.</li> </ul>
	<ul style="list-style-type: none"> <li>The source is selected incorrectly.</li> </ul>	<ul style="list-style-type: none"> <li>Select the source with the FUNCTION SELECT button (CD/VCD, TAPE, AUX or TUNER).</li> </ul>
Radio stations cannot be tuned in.	<ul style="list-style-type: none"> <li>The antennas are connected poorly.</li> </ul>	<ul style="list-style-type: none"> <li>Connect the antenna securely.</li> </ul>
		<ul style="list-style-type: none"> <li>Adjust the antennas and connect an external antenna if necessary.</li> </ul>
The remote control does not work properly.	<ul style="list-style-type: none"> <li>The signal strength of the stations is too weak (when tuning in with automatic tuning).</li> </ul>	<ul style="list-style-type: none"> <li>Tune in the station manually.</li> </ul>
	<ul style="list-style-type: none"> <li>The remote control is not pointed at the remote sensor on the unit.</li> </ul>	<ul style="list-style-type: none"> <li>Point the remote control at the remote sensor on the unit.</li> </ul>
	<ul style="list-style-type: none"> <li>The remote control is too far from the unit.</li> </ul>	<ul style="list-style-type: none"> <li>Operate the remote control within about 23 ft (7 m).</li> </ul>
	<ul style="list-style-type: none"> <li>There is an obstacle in the path of the remote control and the unit.</li> </ul>	<ul style="list-style-type: none"> <li>Remove the obstacle.</li> </ul>
	<ul style="list-style-type: none"> <li>The batteries in the remote control are exhausted.</li> </ul>	<ul style="list-style-type: none"> <li>Replace the batteries with new ones</li> </ul>

## Specifications

SECTION \ MODEL		LM-V1060A/S	LM-V560A/S	LM-V360A/S
[General]	Power supply	Refer to the back panel of the unit.		
	Power consumption	50W	45W	45W
	Net Weight	6.3 kg		
	External dimensions (W x H x D)	273 x 326 x 366 mm		
[CD]	Frequency response	40 - 18000 Hz		
	Signal-to-noise ratio	70 dB		
	Dynamic range	70 dB		
[Tuner]	FM	Tuning Range	87.5 - 108.0 MHz	
		Intermediate Frequency	10.7 MHz	
		Signal to Noise Ratio	60/55 dB	
		Frequency Response	60 - 10000 Hz	
	AM (MW)	Tuning Range	522 - 1620 kHz or 520 - 1720 kHz	
		Intermediate Frequency	450 kHz	
		Signal to Noise Ratio	35 dB	
		Frequency Response	120 - 2000 Hz	
	SW (option)	Tuning Range	5800 - 18000 kHz	
		Intermediate Frequency	450 kHz	
[Amp]		Output Power	100W + 100W	50W + 50W      30W + 30W
		T.H.D	0.5%	
		Frequency Response	42 - 20000 Hz	
		Signal-to-noise ratio	75 dB	
[TAPE]		Tape Speed	3000±40Cm/sec	
		Wow Flutter	0.25% (JIS-WTD)	
		F.F/REW Time	120sec (C-60)	
		Frequency Response	125 - 8000Hz	
		Signal to Noise Ratio	40dB	
		Channel Separation	50dB(P/B)/45dB(R/P)	
		Erase Ratio	55dB (MTT-5511)	
[Speakers]	MODEL		LMS-V1060V	LMS-V560V      LMS-V360V
	Type		3Way 3Speaker	2Way 2Speaker      2Way 2Speaker
	Impedance		4Ω	8Ω      8Ω
	Frequency Response		55-20000Hz	56-20000Hz      56-20000Hz
	Sound Pressure Level		85 dB/W (1m)	85 dB/W (1m)      85 dB/W (1m)
	Rated Input Power		100W	50W      30W
	Max. Input Power		200W	100W      60W
	Net Dimensions (W x H x D)		227X327X272mm	199X326X232mm      199X326X232mm
	Net Weight		4.2kg	2.78kg      2.78kg

\* Designs and specifications are subject to change without notice.



P/NO : 3834RH0147B