

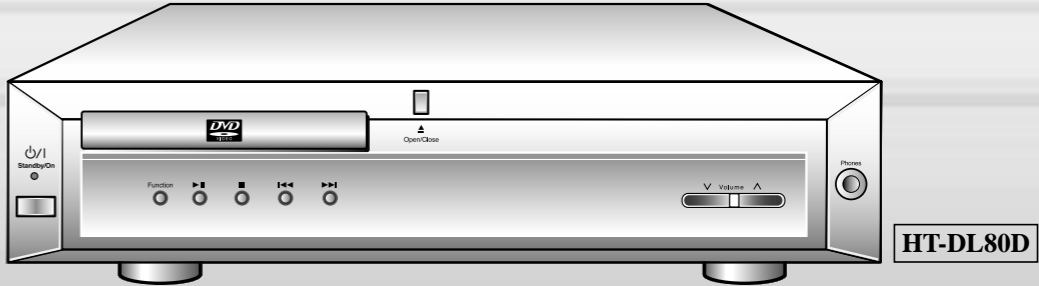
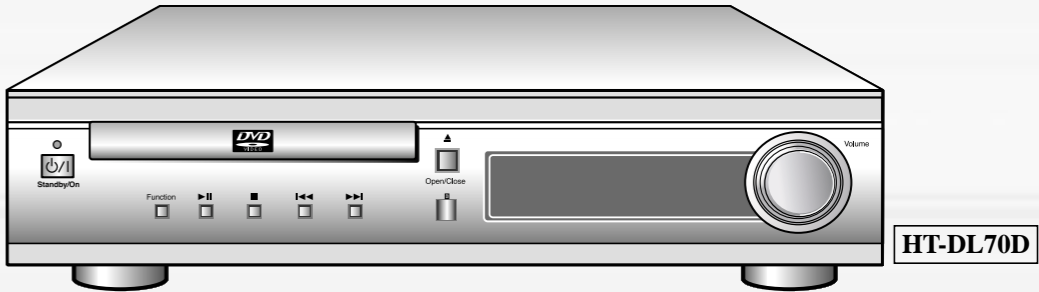


# DIGITAL HOME THEATER SYSTEM

## HT-DL70D

## HT-DL80D

### Instruction Manual



CLASS 1 LASER PRODUCT  
KLASSE 1 LASER PRODUKT  
LUOKAN 1 LASER LAITE  
KLASS 1 LASER APPARAT  
PRODUCTO LASER CLASE 1



**CAUTION**

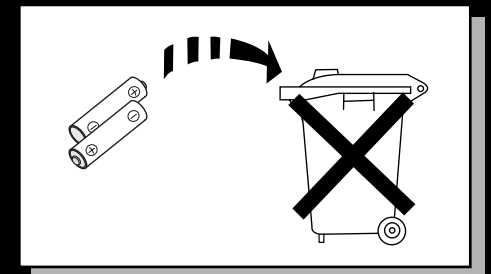
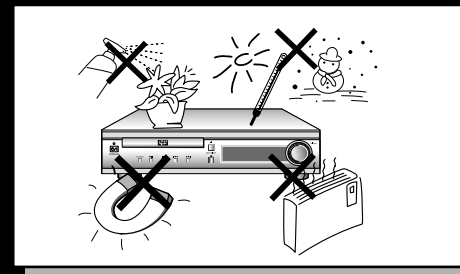
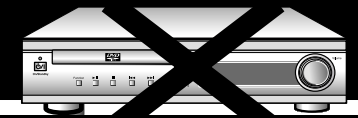
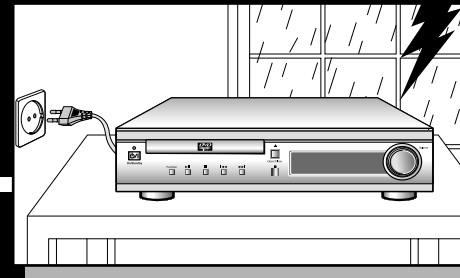
RISK OF ELECTRIC SHOCK.  
DO NOT OPEN



CAUTION:  
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT  
REMOVE REAR COVER. NO USER SERVICEABLE  
PARTS INSIDE. REFER SERVICING TO QUALIFIED  
SERVICE PERSONNEL.

**CLASS 1 LASER PRODUCT**

This Compact Disc player is classified  
as a CLASS 1 LASER product.





**DVD (Digital Versatile Disc)** offers fantastic audio and video, thanks to Dolby Digital surround sound and MPEG-2 video compression technology. Now you can enjoy these realistic effects in the home as if you were in a theater or concert hall.

DVD players and the discs are coded by region. These regional codes must match in order for the disc to play. If the codes do not match, the disc will not play.

The Region Number for this player is given on the rear panel of the player. (Your DVD player will only play DVDs that are labeled with identical region codes.)

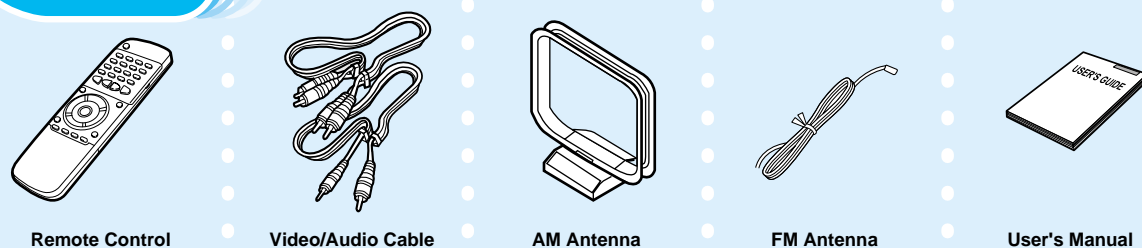
### Do not use the following types of disc!

- LD, CDG, CD-I, CD-ROM and DVD-ROM cannot be played on this player. If such discs are played, a "WRONG DISC FORMAT" message appears on the TV screen.
- DVD discs purchased abroad may not play on this player. If such discs are played, a "WRONG REGION CODE" message appears on the TV screen.

### Copy Protection

- Many DVD discs are encoded with copy protection. Because of this, you should only connect your DVD player directly to your TV, not to a VCR. Connecting to a VCR results in a distorted picture from copy-protected DVD discs.
- This product incorporates copyright protection technology that is protected by methods claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

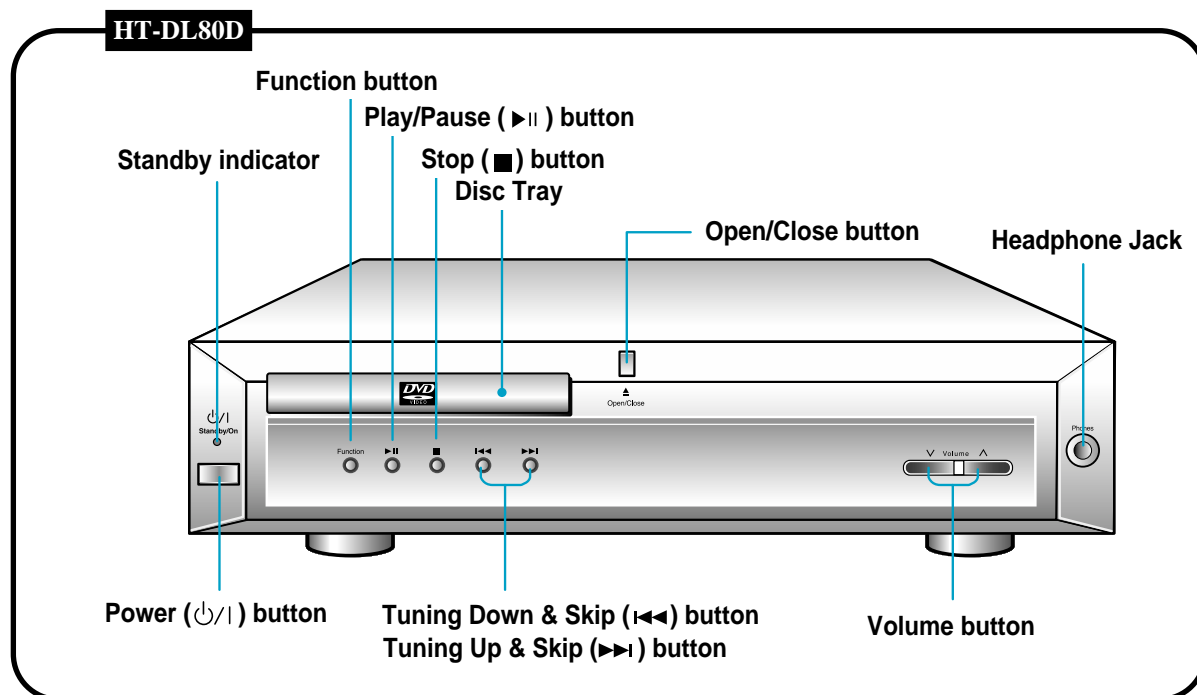
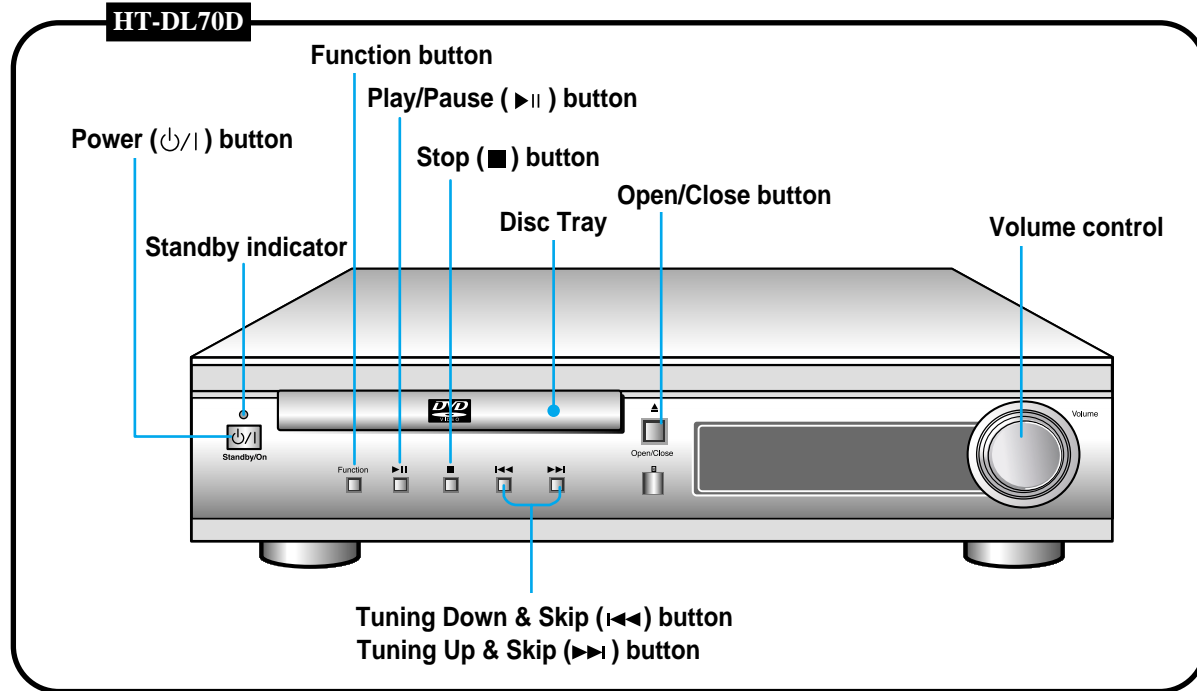
### Accessories



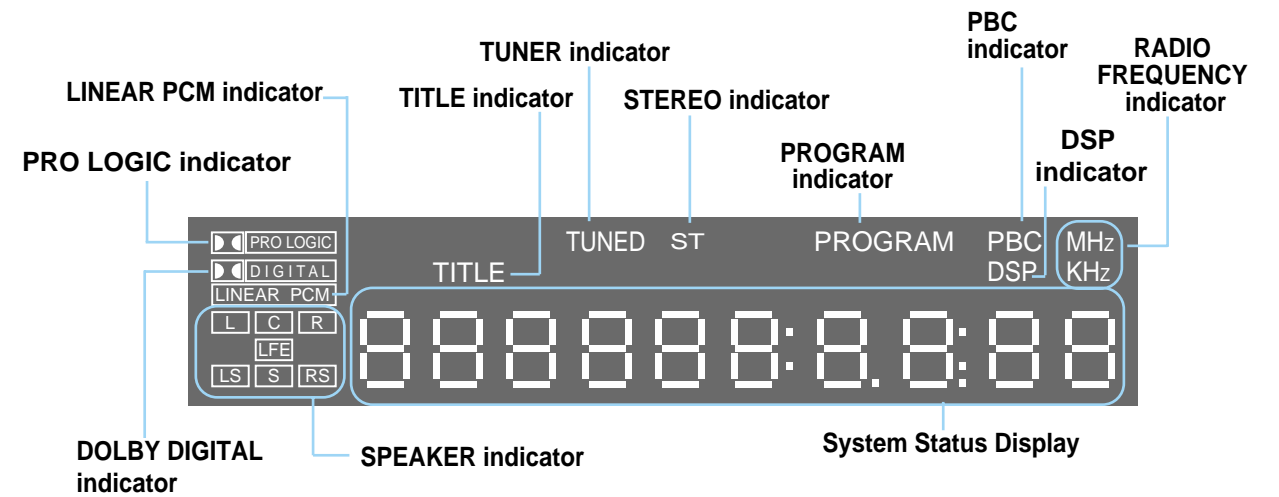
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# Description

## Front Panel



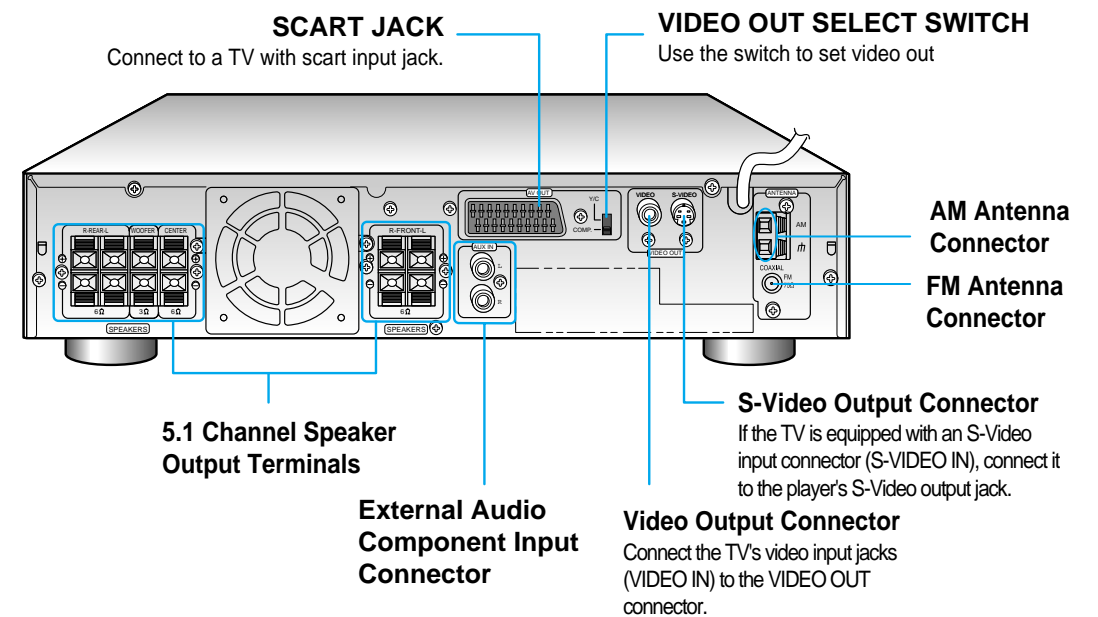
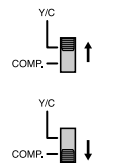
## Display



## Rear Panel

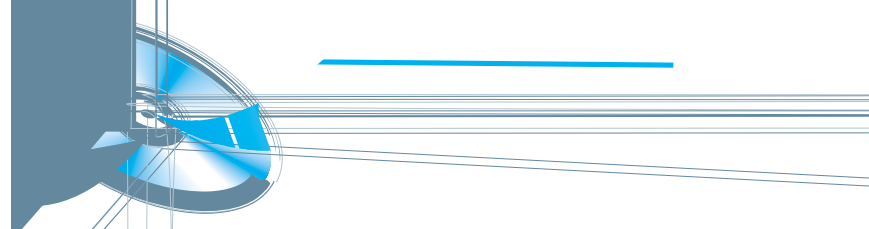
### For using the SCART cable

- If S-Video (Y/C-separation) is equipped for your TV, set Y/C-COMP. selector of the center unit to Y/C. You can get a better picture quality by using S-Video (Y/C-separation) setting.
- If S-Video (Y/C-separation) is not equipped for your TV, set Y/C-COMP. selector to COMP.





# Connecting the Speakers



Right frc







- The **"WAIT"** message that appears on the display for about seven to eight seconds when turning on the power or selecting a DVD function indicates a stabilization period for optimizing the condition of your DVD player. While the message is being displayed, other buttons remain inactive.
- When the power is not turned on, press down the Stop (■) button on the main unit for over 5 seconds.  
The product will be initialized to its optimum state.
- Certain operational features such as the Speaker mode, Test tone, Volume, etc. will not be displayed on the TV screen.



# DVD Playback

- 1**

Press the **Open/Close** (▲) button to open the disc tray.

  - The button is located on the Front Panel of the player (not on the remote).
- 2**

Insert a disc.

  - Place a disc gently into the tray with the disc's label facing up.
- 3**

Press the **Open/Close** (▲) button again to close the disc tray.

  - Playback starts automatically.

## Using the On-Screen Display

Press the Display button on the remote.

The OSD displays the following information:

- DVD VIDEO
- T 1/2 (TITLE indicator)
- C 1/8 (CHAPTER indicator)
- 00:00:00 (TITLE ELAPSED indicator)
- ENG (SUBTITLE LANGUAGE indicator)
- ENG 1/3 (AUDIO LANGUAGE indicator)
- dts OFF (DISC TYPE indicator)
- 1/1 (REPEAT indicator)
- ANGLE indicator

The On-Screen Display disappears.

## Pausing Playback



Press the **Play/Pause** (▶||) button during playback.

- To resume, press the Play/Pause (▶||) button again.

- Note**
- Depending on the disc, the initial disc information screen may look different from disc to disc.
  - When playing a DVD containing MPEG format, video may not be reproduced correctly and you may get picture distortion.

## Stopping Playback



Press the **Stop** (■) button during playback.

- During playback, when the Stop (■) button is pressed, the position is stored in the memory, and ▶■ STOP is shown on the display. When the Play/Pause (▶||) button or Return button is pressed subsequently, playback resumes from the position at which it was stopped.
- If the Stop (■) button is pressed a second time, the 'resume play' memory function is canceled, and ■ STOP is shown on the display. When the Play/Pause (▶||) button is pressed, playback starts from the beginning.

### What is a Title?

A movie contained in a DVD disc.

### What is a Chapter?

Each Title on a DVD disc is divided into several smaller sections called "chapters".

## Turning the sound off temporarily?

Mute

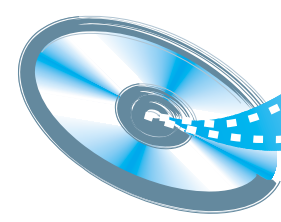


Press the **Mute** button during playback.

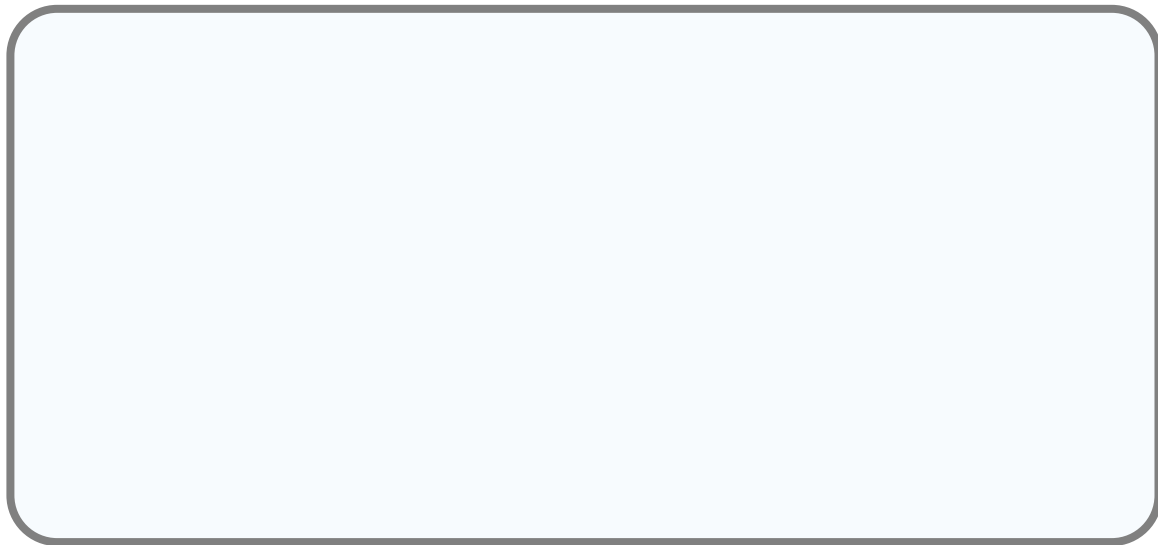
- This operation may be useful when you need to greet guests or answer the telephone.

- Note**
- If the player is left for more than 3 minutes in pause mode, it will stop.

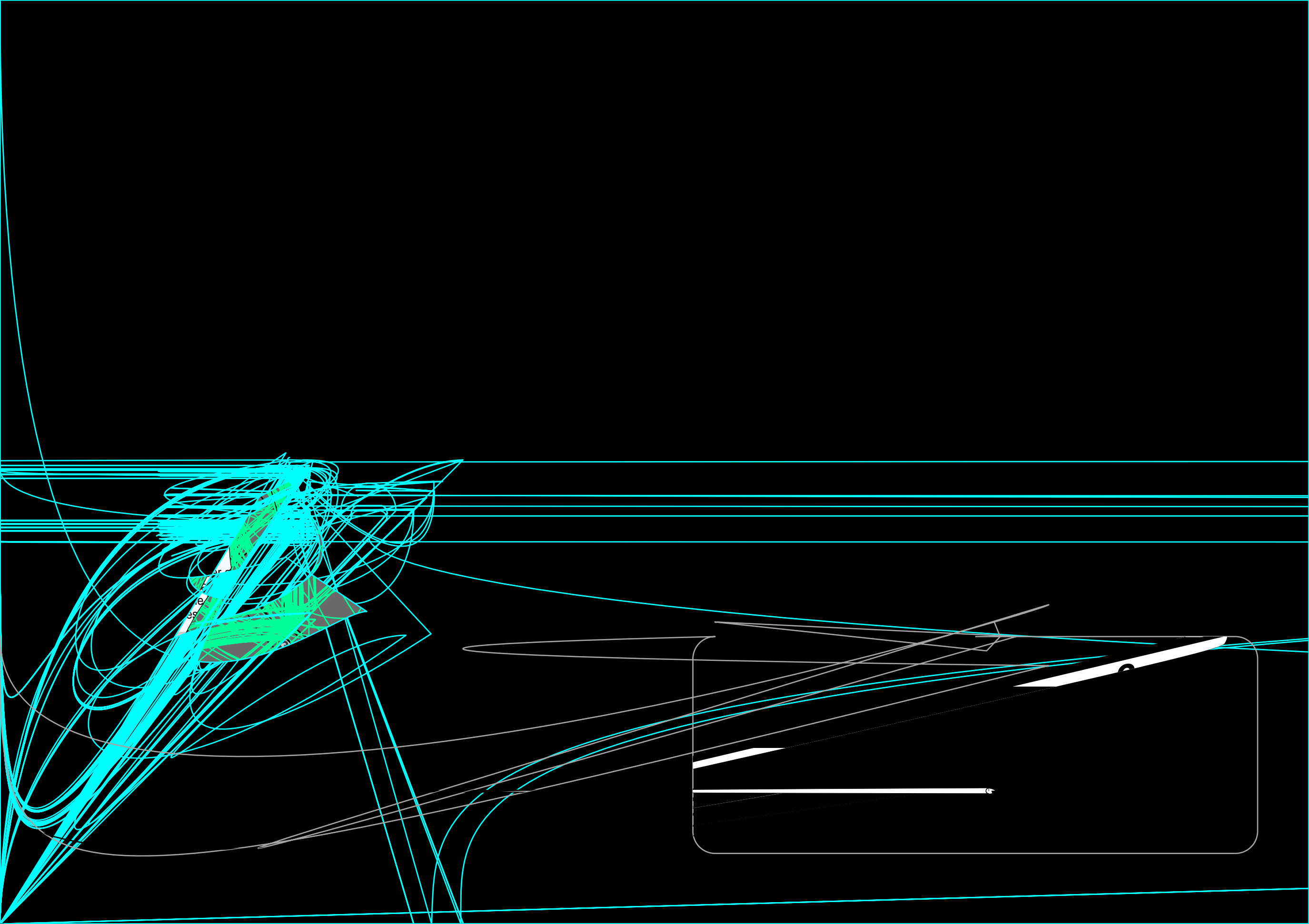


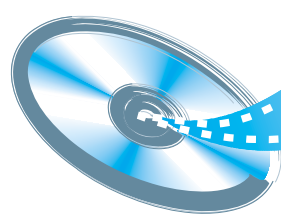


# Using Disc Menu/Title









# MP3 Playback

This system has a built-in MP3 decoder.  
You can play back MP3 tracks (files) recorded on CD-Rs, CD-RWs, and CD-ROMs.

## Starting Playback

- It is recommended you turn on your TV when playing back an MP3 disc.

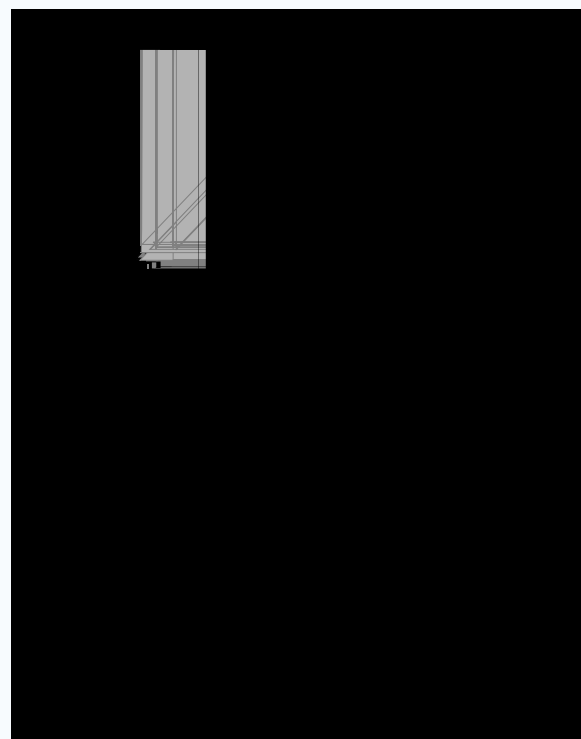
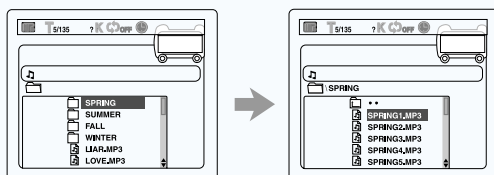
### 1

Press the **Open/Close** (▲) button to load a disc.

### 2

Press the **Play/Pause** (▶||) button.

- After detecting the disc, playback starts.
- The on-screen bar and the contents recorded on the MP3 disc will be shown on the TV if it is turned on.





P E b



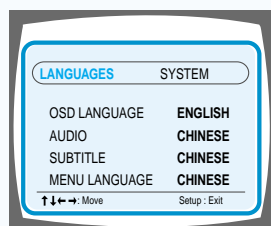
# Setting up the Language Features

Using the DVD player's Setup function, you can customize the Menu Language, Subtitle Language, and Disc Menu Language.

To set up the language feature

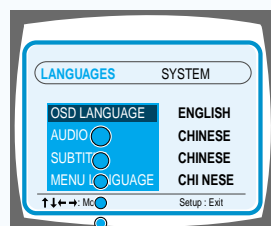
1

Press the **Setup** button from the stop mode.



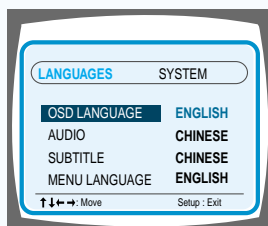
2

Press the **Up/Down** (▲/▼) button to select the desired item.



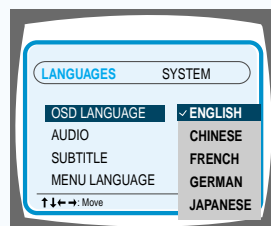
3

Press the **Enter** button or **Right** (▶) button.



4

Press the **Up/Down** (▲/▼) button to select the desired language and then press the **Enter** button.



To End the Language Features Setup



- Press the **Setup** button again.

# Activating Dynamic Range Compression

Activating Dynamic Range Compression

You can enjoy a powerful sound even at a low volume level by compressing the dynamic range (difference between the maximum and minimum sounds).

**From the remote control ONLY:**

Press the **D.R.C** button.

- Each time you press the button, the dynamic range compression mode alternates between on and off. Select "D.R.C.ON" while watching the DVD at night. (You can obtain a powerful sound at a low volume.)
- This function takes effect only when Dolby Digital or DTS Digital Surround is activated.

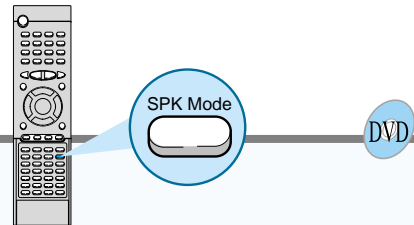




# Speaker Setup

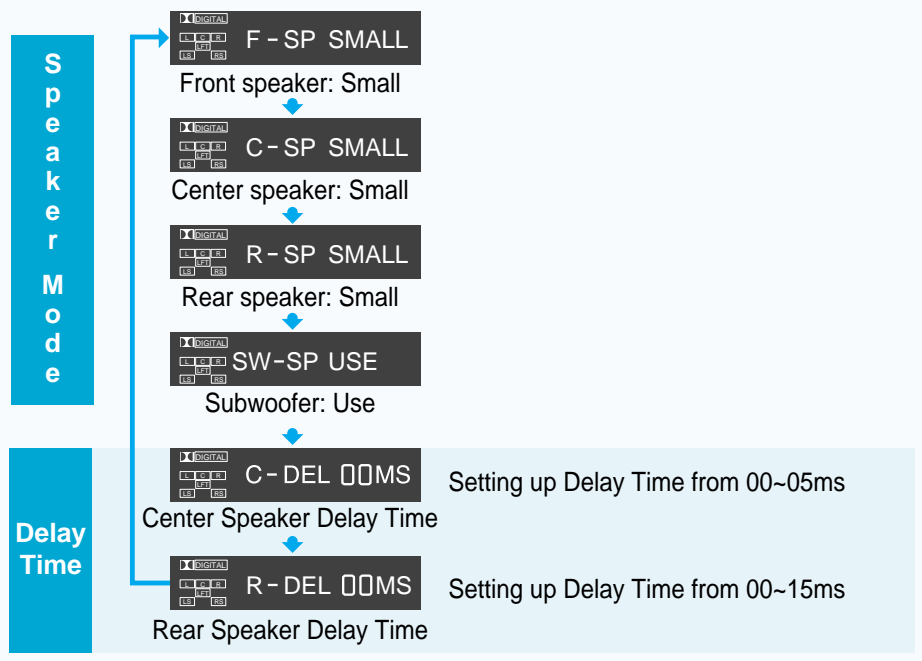


## Setting up Speaker Mode and Delay Time



Press the **SPK Mode** button.

- Each time the button is pressed, a different mode selection is displayed on the front panel display as shown below.



- SMALL:** When this setting is selected, low frequencies of below 200 Hz are assigned to the subwoofer only.
- USE:** Select when using speakers.

- Note**
- The display changes depending on the current audio output mode (DSP, PRO LOGIC, 3-STEREO, STEREO, etc.).
  - When in the speaker mode, the center and rear speakers and the subwoofer cannot be selected.

## To set the delay time

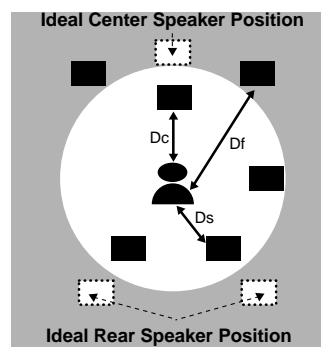
- When 5.1 Channel Surround Sound is played, you can enjoy the best sound if the distance between you and each speaker is the same. You can set Delay Time in the Center/Rear Speaker to customize the sound to the acoustics of your room.
- Setting Center Speaker**  
If the distance of Dc is equal to or longer than the distance of Df in the figure, set the mode as 0ms. Otherwise, change the setting according to the table on the table.
- Setting Rear Speakers**  
If the distance of Df is equal to the distance of Ds in the figure, set the mode as 0ms. Otherwise, change the setting according to the table.

(A)=Df-Dc

Distance of (A)	Value
50	1.3ms
100	2.6ms
150	3.9ms
200	5.3ms

(B)=Df-Ds

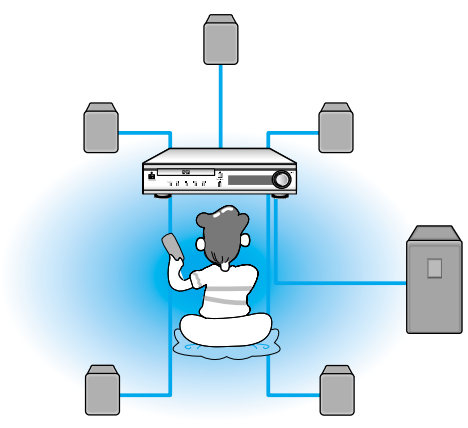
Distance of (B)	Value
200	5.3ms
400	10.6ms
600	15.9ms



Dc: Distance from center speaker to listening position  
 Df: Distance from front speakers to listening position  
 Ds: Distance from rear speakers to listening position

Arrange all speakers within a circle as shown in the figure.

## Speaker Setting Methods



### Front Speakers

Set the front speakers so that their tweeters (high-range) are aligned at about ear level and at a horizontal angle of 45° to the prime listening position.

### Center Speaker

Ideally the center speaker should be positioned with its top surface flush with the front speakers. However, you may place the speaker either on top or near the bottom of your TV set.

### Rear Speakers

Set the rear speakers further back, parallel to the walls, at 60 to 90 centimeters (2 to 3 feet) above prime listening position ear level.  
 If the space behind the listening position is insufficient (i.e., too close to the wall), place the rear speakers facing each other on either side.

### Subwoofer Speaker

Place the subwoofer at any convenient location within the vicinity of the listening position.



00 F-00

00 A-00

CEN 00d8

REAR 03d8

SW 03d8

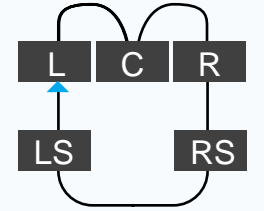
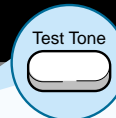
### Speaker Setting Methods

Press the **Test Tone** button.

- The test signal will be sent to the Left Front, Center, Right Front, Right Rear, Left Rear in that order.

To End the Speaker Setup

- Press the **Test Tone** button again.



### Note

### Selecting Dolby Pro Logic

Press the **Pro Logic** button.

Converts Dolby Surround encoded 2-channel sound (e.g., program material received by Stereo VCR could be Dolby Surround encoded 2-channel material that can be decoded into 4-channel sound using the Dolby Pro Logic mode). Pro Logic mode can also be enjoyed when in DVD mode or when playing Dolby Digital or PCM material that is Dolby Surround encoded.

1

Press the **Function Selection** button to select the desired function.

- Select from FM, AM, DVD and AUX IN.

2

Press the **Pro Logic** button.

- Each time the Pro Logic button is pressed

PRO LOGIC

**PRO LOGIC** : Left, Center, Right, Subwoofer and Surround Channel

3-STEREO

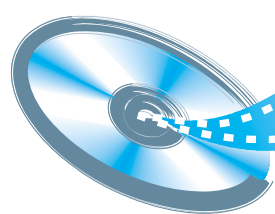
**3-STEREO** : Left, Center, Right and Subwoofer Channel

STEREO

**STEREO** : Left, Right and Subwoofer Channel

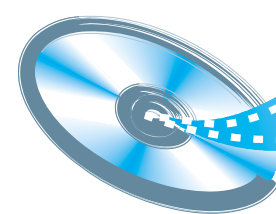
### Note





# Listening to the Radio

You can listen to the chosen band (FM, MW or LW broadcast stations) by using either the automatic tuning or manual tuning operation.



# Presetting stations

You can store up to:

- ◆ 15 FM stations
- ◆ 8 MW stations
- ◆ 7 LW stations

- **FM** ..... Frequency Modulation
- **AM(MW)** ..... Medium Wave
- **LW** ..... Long Wave



Remote Control Unit

### 1

Press the **Tuner(Band)** button.

- The selection toggles back and forth between "FM" "MW" and "LW" each time the **Tuner(Band)** button is pressed.

### 2

Select a broadcast station.

**Auto Station 1** When the **◀▶** button is pressed, a preset broadcast station is selected.

**Auto Station 2** Hold in the **◀▶** button. Automatic searching begins, and then stops when a station is tuned in.

**Manual Station** Press the **◀▶** button to tune to the chosen station. The frequency changes incrementally in either direction each time the corresponding button is pressed.

### 1

Press the **Function** button to select the desired band (FM, MW or LW).

Main Unit

### 2

Select a broadcast station.

**Auto Station 1** Press the **Stop (■)** button to select the PRESET mode. Then press the **◀▶** button to select a station stored in the preset. See the instructions on the next page to preset stations.

**Auto Station 2** Press the **Stop (■)** button to select the MANUAL mode on the front panel. Then hold in the **◀▶** button to make the unit begin automatically searching for broadcast stations.

**Manual Station** Press the **Stop (■)** button to select the MANUAL mode on the front panel. Press the **◀▶** button to tune to the desired station. The frequency changes incrementally in either direction each time the corresponding button is pressed.



## To Listen in Mono/Stereo

Press the **MO/ST** button. (FM only)

- The selection toggles back and forth between "STEREO" and "MONO" each time the **MO/ST** button is pressed.
- In a poor reception areas, select Mono mode for a clear, interference-free broadcast.



Example: Presetting FM 89.1 in the memory

### 1

Press the **Tuner(Band)** button and select the FM band.

### 2

Select **MANUAL** by pressing the **Stop (■)** button on the main unit.

### 3

Use the **◀** and **▶** button to tune to 89.1

- The selection toggles back and forth between "FM → AM(MW) → LW" each time the **Tuner(Band)** button is pressed.



### 4

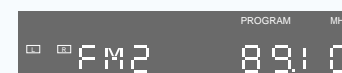
Press the **Program** button on the remote control, FM1 will flash. If you want to save 89.1 to FM1, press Program again.

### 5

If you want to save 89.1 to another preset location(FM2~FM15), press **◀** or **▶**, then press **Program** to save it to that location.

### 6

To preset other stations, follow steps 1~4 again.



## To store other Channels

- Follow steps 3~5 again.

## To tune in a preset station

- See the previous page.

# About RDS broadcasting

## Using the RDS (Radio Data System) to receive FM stations

RDS allows FM stations to send an additional signal along with their regular program signals. For example, the stations send their station names, as well as information about what type of program they broadcast, such as sports or music, etc.

When tuned to an FM station which provides the RDS service, the RDS indicator lights up on the display.

- Description on RDS function
  1. **PTY (Program Type)** : Displays the type of programme currently being broadcast
  2. **PS NAME (Program Service Name)** : Indicates the name of broadcasting station and is composed of 8 characters.
  3. **RT (Radio Text)** : Decodes the text broadcast by a station (if any) and is composed of maximum 64 characters.
  4. **CT (Clock Time)** : Decodes the real time clock from the FM frequency.
    - Some stations may not transmit PTY, RT or CT information therefore this may not be displayed in all cases.
  5. **TA (Traffic Announcement)** : When this symbol flashes it shows that the traffic announcement is in progress.

### Note

- RDS is not available for MW/LW broadcasts.
- RDS may not operate correctly if the station tuned is not transmitting RDS signal properly or if the signal strength is weak.

## What information can RDS signals provide?

You can see the RDS signals the station sends on the display.

### TO show the RDS signals

Press **RDS DISPLAY** while listening to an FM station.

Each time you press the button, the display change to show you the following information:

**PS (Program Service)** : While searching, "PS" appears and then the station names will be displayed. "NO PS" appears if no signal is sent.

**PTY (Program Type)** : while searching, "PTY" appears and then the type of the broadcast program will be displayed. "NO PTY" appears if no signal is sent.

**RT (Radio Text)** : while searching, "RT" appears and then text messages the station sends will be displayed. "NO RT" appears if no signal is sent.

**Frequency** : station frequency (non-RDS service)

### About characters shown in the display

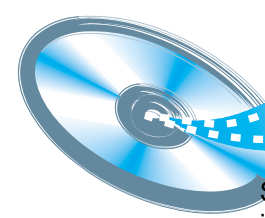
When the display shows PS, PTY, or RT signals, the following characters are used.

- The display window cannot differentiate upper case and lower case letters and always uses upper case letters.
- The display window cannot show accented letters, "A," for instance, may stand for accented "A's" like "Á, Â, Ã, Ä, Å and Æ."

### Note

If searching finishes at once, "PS", "PTY", and "RT" will not appear on the display.





# Cautions on Handling and Storing Discs

Small scratches on the disc may reduce sound and picture quality or cause breaks in playback. Be especially careful not to scratch discs when handling them.

Problem	Check
<ul style="list-style-type: none"> <li>• The disc revolves but no picture appears.</li> <li>• Picture shows interference and quality is poor.</li> </ul>	<ul style="list-style-type: none"> <li>• Is the TV power turned on?</li> <li>• Are the video cables properly connected?</li> <li>• Is it the player in PAUSE mode?</li> <li>• Is there any dirt on the disc, or is the disc damaged?</li> <li>• It may not be possible to play some DVD discs due to poor manufacture.</li> <li>• When a dark scene changes to a bright scene during playback, the screen may flicker vertically. Some disturbance is normal.</li> </ul>
Remote control unit does not operate.	<ul style="list-style-type: none"> <li>• Is the remote control being used within the appropriate distance and angle of operation for the unit?</li> <li>• Are there any obstacles between the remote control unit and the remote control sensor?</li> <li>• Are the batteries dead? Is it time to replace the batteries with new ones?</li> </ul>
Audio or subtitle language does not operate.	<ul style="list-style-type: none"> <li>• The audio or subtitle language features does not operate with DVDs that do not include multiple audio or subtitle languages.</li> </ul>
The Menu button is pressed but the Menu screen does not appear.	<ul style="list-style-type: none"> <li>• Is the remote control being used within the appropriate distance and angle of operation for the unit?</li> <li>• Are the batteries dead?</li> <li>• Does the disc have a Menu?</li> </ul>
The screen ratio cannot be changed.	<ul style="list-style-type: none"> <li>• You can play 16:9 wide DVDs in 16:9 WIDE mode or 4:3 LETTER BOX mode or 4:3 PAN-SCAN mode; but 4:3 encoded DVDs only show in 4:3 ratio. Refer to the DVD disc jacket and then select the appropriate function.</li> </ul>
The desired radio station cannot be tuned in.	<ul style="list-style-type: none"> <li>• Is the antenna installed properly?</li> <li>• When the antenna's input signal is weak, install an external FM antenna in an area with good reception quality.</li> </ul>
The system is malfunctioning (the system does not work or no sound).	<ul style="list-style-type: none"> <li>• While the player is in the stop mode, hold the Stop (■) button down on the main unit for over 5 seconds. "INITIAL" appears on the display and all settings will return to the Factory Preset condition. <b>The RESET function erases all settings; do not use this function unless necessary.</b></li> </ul>

## Handling and Storing Discs



**When you get fingerprints or dirt on the disc, clean it with a mild detergent diluted in water and wipe with a soft cloth.**

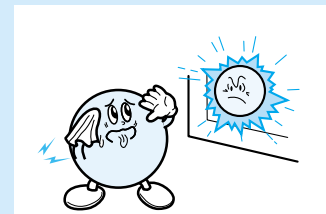
- When cleaning, wipe gently from the inside to the outside of the disc.



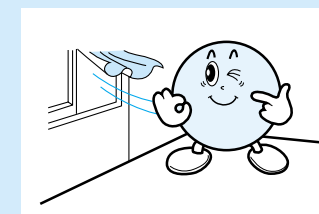
Condensation may form if warm air comes into contact with cold parts inside the player. When condensation forms inside the player, the player may not operate correctly. If this occurs, remove the disc and let the player stand for 1 or 2 hours with the power on.

## Disc Storage

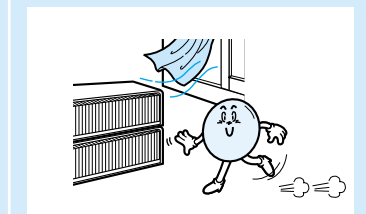
**Do not keep in direct sunlight**



**Keep in a cool ventilated area**



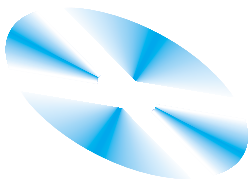
**Keep in a clean Protection jacket. Store vertically.**



- Do not allow the discs to become contaminated with dirt.
- Do not load cracked discs or discs that are scratched.







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