



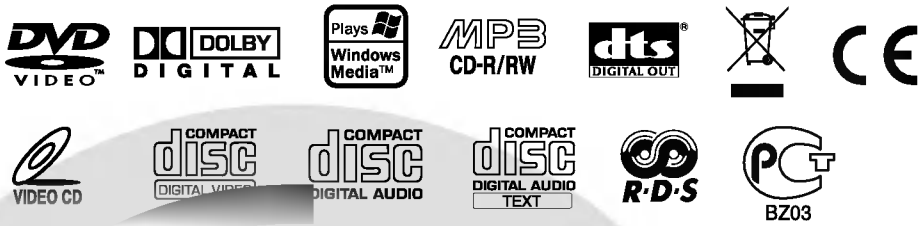
# CAR DVD Receiver

## OWNER'S MANUAL

### MODEL : LAD-4600R

Please read this instruction booklet carefully and completely before connecting, operating or adjusting this product.

The working life of this product is 7 years since the date of purchase.





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	<b>CAUTION</b>	
TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT SPLIT THE COVER (OR BACK) THERE ARE NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		



The lightning flash with the arrowhead symbol within an equilateral triangle is intended to alert the user about 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.



Always operate the vehicle in a safe manner. Do not become distracted by the vehicle while driving, and always be fully aware of all driving conditions. Do not change settings, or any functions. Pull over in a safe and legal manner before attempting such operations.



Do not use for many hours at extremely low or high temperatures. (-10~60°C)



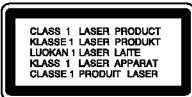
To reduce the risk of electric shock, do not remove the cover or back of this product. There are no user-serviceable parts inside. Refer servicing to qualified service personnel.



To reduce the risk of fire or electric shock, do not expose this product to dripping or splashing water, rain, or moisture.



If the temperature of units outside can be extremely high, please use the unit after proper installation in your vehicle.



**CAUTION : VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED.**

**CAUTION :** This product uses a Laser System.  
 To ensure proper use of this product, please read this owner's manual carefully and retain it for future reference. Should the unit require maintenance, contact an authorized service center.  
 Performing controls, adjustments, or carrying out procedures other than those specified herein may result in hazardous radiation exposure.  
 To prevent direct exposure to the laser beam, do not try to open the enclosure. Visible laser radiation when open. **DO NOT STARE INTO BEAM.**



- A defective or soiled disc inserted into the unit can cause the sound to drop during playback.
- Handle the disc by holding its inner and outer edges.
- Do not touch the surface of the unlabeled side of the disc.



Do not stick paper or tape, etc. on the surface.



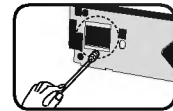
Do not expose the disc to direct sunlight or excessive heat.



- Clean the disc before playback. Wipe the disc from the center outward with a cleaning cloth.
- Never use solvents such as benzine or alcohol to clean the disc.



Periodically wipe the contacts on the back of the front panel with a cotton swab moistened with alcohol.



### To ensure safe driving

- To avoid the risk of accident and the potential violation of applicable laws, this unit is not for use with a video screen that is visible to the driver.
- This unit detects whether your car's parking brake is engaged or not, and prevents you from watching a DVD or Video CD on the display connected to **FRONT VIDEO OUTPUT** while driving. When you attempt to watch a DVD/Video CD, the screen will turn black. When you park your car in a safe place and apply the parking brake, the picture appears on the screen.






A section whose title has one of the following symbols is applicable only to the disc represented by the symbol.

- |   |           |   |           |
|---|-----------|---|-----------|
|  | DVD       |  | Video CDs |
|  | Audio CDs |  | MP3 files |
|  | WMA files |   |           |

### About the Symbol Display

When you are watching a DVD and attempt to perform an operation, it may not be performed due to the programming on the disc. When this happens, the unit indicates the button  on the screen.

### Types of Playable Discs



DVD  
(12 cm/8 cm disc)



Video CD (VCD)  
(12 cm/8 cm disc)



Audio CD  
(12 cm/8 cm disc)

In addition, this unit plays DVD±R, DVD±RW and CD-R or CD-RW containing audio titles, MP3 or WMA.

- Depending on the conditions of the recording equipment or the CD-R/RW (or DVD±R/±RW) disc itself, some CD-R/RW (or DVD±R/±RW) discs cannot be played on the unit.
- Do not attach any seal or label to either side (the labeled side or the recorded side) of a disc.
- Do not use irregularly shaped CDs (e.g., heart-shaped or octagonal). It may result in malfunctions.

### Notes on DVDs and Video CDs

Some playback operations of DVDs and Video CDs may be intentionally programmed by software manufacturers. This unit plays DVDs and Video CDs according to disc contents designed by the software manufacturer, therefore some playback features may not be available or other functions may be added.





### Regional code

This unit is designed and manufactured for playback of region "5" encoded DVD software. This unit can only play DVD discs labeled "5" or "ALL".



### Notes on Regional Codes

- Most DVD discs have a globe with one or more numbers on it clearly visible on the cover. This number must match your Car DVD Receiver's regional code or the disc cannot play.
- If you try to play a DVD with a different region code from your player, the message "Check Regional Code" appears on the screen.

### TV System Selection

You must select the appropriate system mode for your TV system. If "No Disc" appears in the display window, press and hold **PAUSE** on the front panel or **PAUSE (III)** on remote control for more than 5 seconds to be able to select a system (AUTO, NTSC, or PAL).

- When the selected system does not coincide with the system of your TV, normal colour picture may not be displayed.

**AUTO** : Select when the unit is connected with Multi system TV.

**NTSC** : Select when the unit is connected with NTSC-TV.

**PAL** : Select when the unit is connected with PAL-TV.

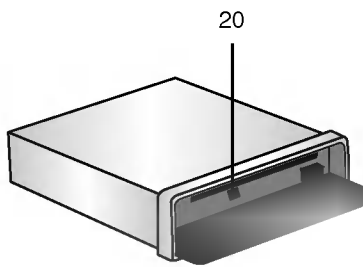
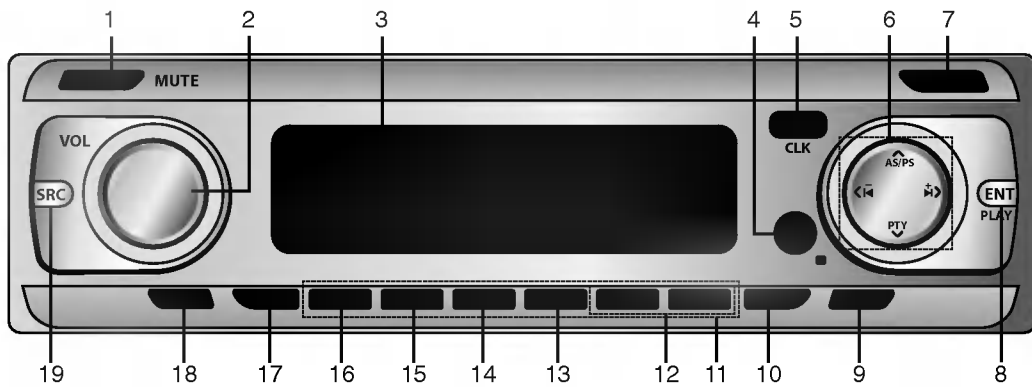
### Disposal of your old appliance

1. When this crossed-out wheeled bin symbol is attached to a product, it means the product is covered by the European Directive 2002/96/EC.
2. All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.
3. The correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health.
4. For more detailed information about disposal of your old appliance, please contact your city office, waste disposal service or the shop where you purchased the product.



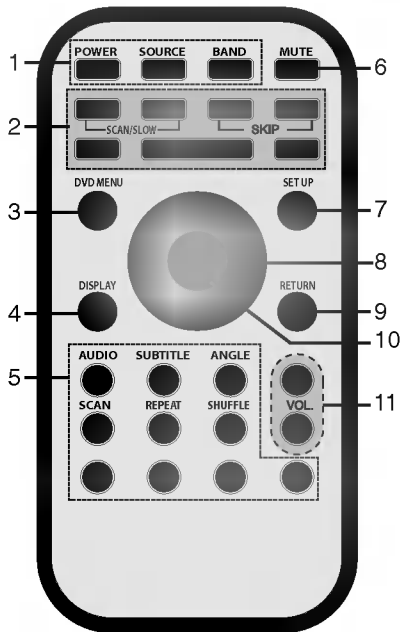
This product has been manufactured to comply with the radio interference requirements of EEC DIRECTIVE 89/336/EEC, 93/68/EEC and 73/23/EEC.





- |   |   |    |   |
|---|---|----|---|
| 1 | POWER [PWR / MUTE]  | 9  | SELECT [SEL.]   |
| 2 | • VOLUME [VOL]<br>• CONTROL UP/DOWN   | 10 | • EQUALIZER [EQ]<br>• EXTREME DYNAMIC SOUND SYSTEM [XDSS]     |
| 3 | DISPLAY WINDOW  | 11 | PRESET STATION [1-6]  |
| 4 | REMOTE SENSOR   | 12 | MP3 TRACK -5/+5   |
| 5 | • INFORMATION [INFO]<br>• CLOCK [CLK]   | 13 | SHUFFLE [SHF]   |
| 6 | • AUTO STORE [AS]<br>• PRESET SCAN [PS]<br>• SKIP/SEARCH I◀/▶I<br>• AUTO TUNE/ MANUAL TUNE -/+<br>• UP/DOWN ^ v<br>• LEFT/RIGHT < > | 14 | REPEAT [RPT]  |
| 7 | RELEASE   | 15 | INTRO SCAN [SCAN]   |
| 8 | • ENTER [ENT]<br>• [PLAY]   | 16 | [Pause]   |
|   |   | 17 | • TRAFFIC ANNOUNCEMENT [TA]<br>• ALTERNATIVE FREQUENCIES [AF] |
|   |   | 18 | [BAND]  |
|   |   | 19 | SOURCE [SRC]  |
|   |   | 20 | EJECT   |





1. **POWER**  
Switches the unit ON/OFF.
- SOURCE**  
Selects a source.
- BAND**  
Selects three FM and MW (AM) bands.
2. **SCAN/SLOW ◀◀/▶▶**
  - Backward (Forward) search playback.
  - Reverse/ Forward slow playback.
- SKIP I◀◀/▶▶I**
  - Goes to next (previous) chapter, track or file.
  - Returns to the beginning of the current chapter, track or file.
- PAUSE II**
  - Pauses playback temporarily.
  - Press repeatedly for frame-by-frame playback.
- PLAY ▶**  
Starts playback.
- STOP ■**  
Stops playback. ■ ■

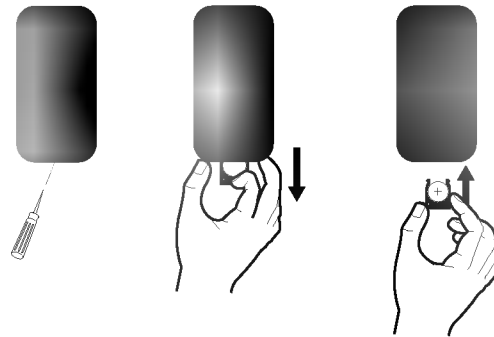
3. **DVD MENU ■**  
Accesses menu on a DVD disc.
4. **DISPLAY**  
Accesses On-Screen display.
5. **0-9 number buttons**
  - Selects numbered items in the menu.
  - Selects a stored radio station frequency (1-6).
- AUDIO**
  - Selects audio language. ■
- SUBTITLE**
  - Selects audio subtitle language. ■
- ANGLE**
  - Selects a DVD camera angle if available. ■
- SCAN**
  - Plays the first 10 seconds of all track. ■■■
- REPEAT**
  - Repeats chapter, track, title or file.
- SHUFFLE**
  - Plays tracks or files in random order. ■■■
6. **MUTE**  
Mutes the volume.
7. **SET UP**  
Accesses the setup menu
8. **▲/▼/◀/▶** (up/down/left/right)  
Selects an item in the menu.
9. **RETURN**  
Displays the disc menu with PBC.
10. **ENTER**  
Confirms menu selection.
11. **VOLUME (UP ▲ / DOWN ▼)**  
Adjusts the volume level.



### Install the battery of remote control

Pull the tray on the back of battery of remote control outward with a pencil or ball point pen and insert the battery with the plus (+) minus (-) poles pointing in the proper direction.

- 1 Remove the battery holder with a pencil or ball point pen.
- 2 Install the battery on the battery holder.
- 3 Install the battery holder back into its original position.



### Using the remote control

Point the remote control in the direction of the front panel to operate.


#### **✦ Notes**

- Use only one CR2025 (3V) lithium battery.
- Remove the battery if the remote control is not going to be used for a long period of time.
- Do not leave the product in a hot or humid place.
- Do not handle the battery with metallic tools.
- Do not store the battery with metallic materials.
- In the event of battery leakage, wipe the remote control completely clean and install a new battery.



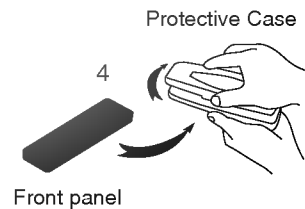
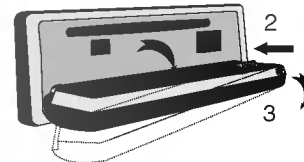
## Detachable front panel

The front panel can be detached to prevent theft.

- 1 Press  (RELEASE) to open the front panel.
- 2 Push the front panel to right.
- 3 Pull the front panel.
- 4 Place the front panel in the supplied protective case.

### Notes

- The front panel is a precision piece of equipment and can be damaged by shocks or jolts. For that reason, keep the front panel in its protective case while detached.
- Do not touch the connectors directly with your fingers or with any metal device.

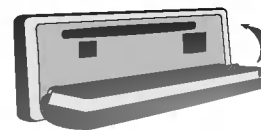
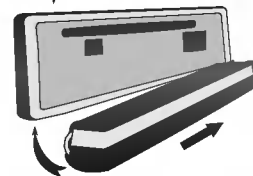
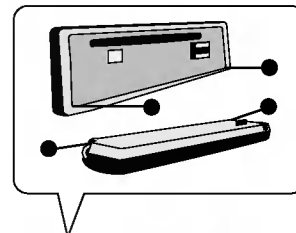


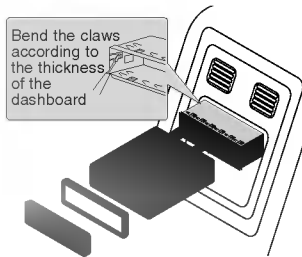
## Attachable front panel

- 1 Attach the part **A** of the front panel to the part **B** of the unit.
- 2 Attach the part **C** of the front panel to the part **D** of the unit while pushing the front panel to right.
- 3 Close the front panel.

### Notes

- When detaching or attaching the front panel, do not press the display or control buttons.
- The control buttons may not work properly if the front panel is not attached properly. If this occurs, gently press the front panel.
- Do not leave the front panel in any area exposed to high temperatures or direct sunlight.
- Do not drop the front panel or otherwise it may be subject to a strong impact.
- Do not allow volatile agents such as benzine, thinner, or insecticides to come into contact with the surface of the front panel.
- Do not try to disassemble the front panel.



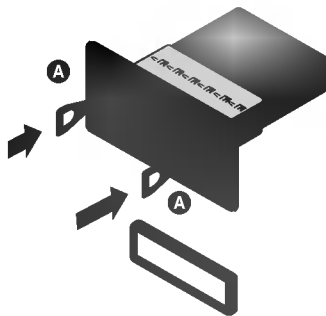


Front panel

### Basic installation

Before installing, make sure that the ignition switch is set to OFF and remove the terminal of the car battery to avoid short-circuiting.

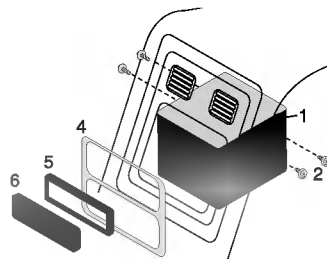
- 1 Remove the existing receiver unit.
- 2 Make the necessary connections.
- 3 Install the installation sleeve.
- 4 Install the unit into the installation sleeve.



### Removing the existing receiver unit

Please remove any installation sleeves that is already in place for the receiver unit in the dashboard, it must be removed.

- 1 Remove the front panel and trim ring from the unit.
- 2 Insert the lever **A** into the hole on one side of the unit. Perform the same operation on the other side and pull the unit out from the mounting sleeve.



Front panel

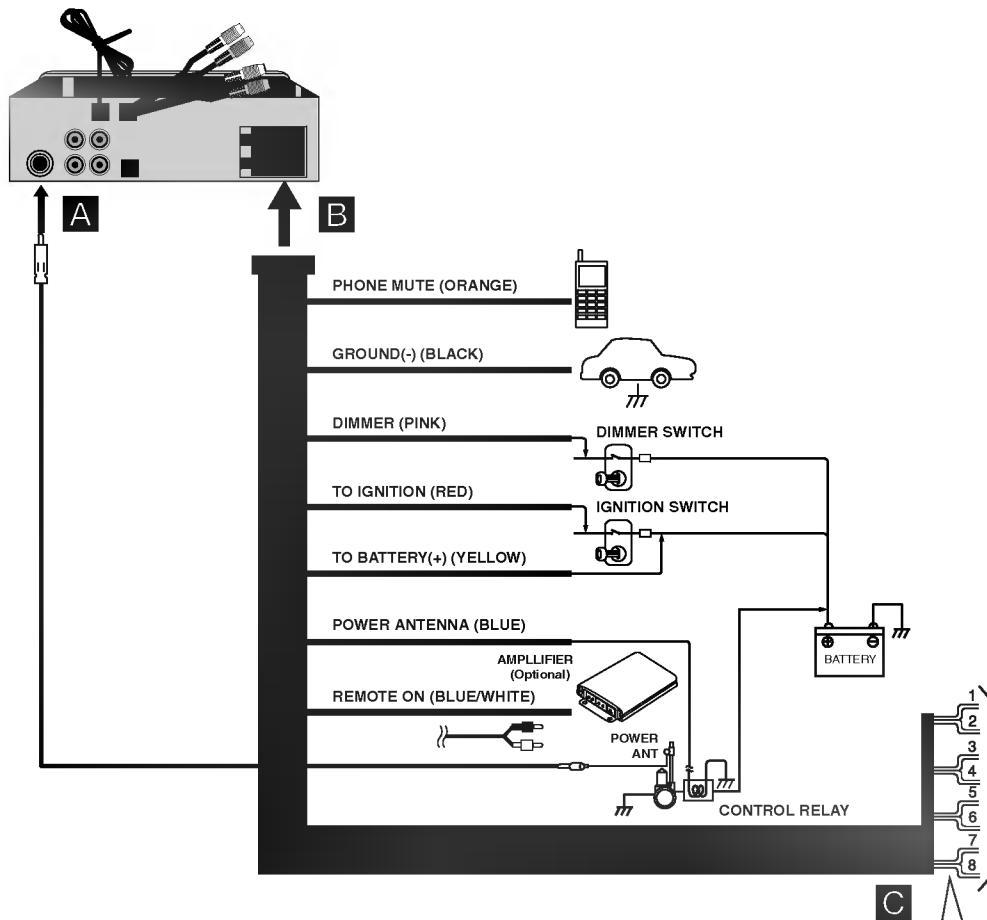
### ISO-DIN installation

- 1 Slide the unit into the ISO-DIN frame.
- 2 Install the screws removed from the old unit.
- 3 Slide the unit and frame into the dash opening.
- 4 Install the dash panel or adapter plate.
- 5 Install the trim ring into unit.
- 6 Install the faceplate by fitting the right edge into position, then push the left panel closed.



## Connecting to car

Before connecting, make sure that the ignition switch is set to OFF and remove the battery ⊖ terminal to avoid short circuits.



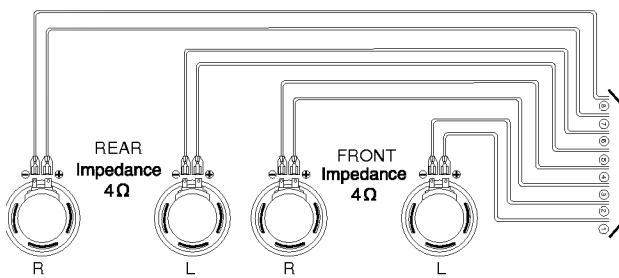
1. WHITE FL+
2. WHITE/BLACK STRIPE FL-
3. GRAY FR+
4. GRAY/ BLACK STRIPE FR-
5. GREEN RL+
6. GREEN/ BLACK STRIPE RL-
7. VIOLET RR+
8. VIOLET/ BLACK STRIPE RR-

**A** From antenna

**B** To the wiring of the vehicle colors of leads.

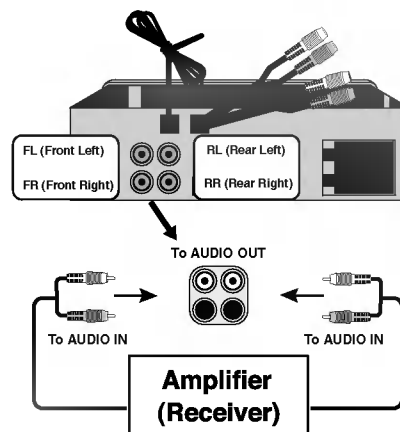
- **BLACK** : This lead is for the ground connection.
- **ORANGE** : This lead is for the phone line connection.
- **PINK** : This lead is for the dimmer line connection.
- **RED** : This lead is for connection to the power supply terminal when the ignition switch is set to ACC.
- **YELLOW** : This lead is for connection to the battery (back-up) terminal from which power is always supplied.
- **BLUE** : This lead is for the power antenna connection.
- **BLUE/WHITE** : This lead is for the remote amplifier connection.

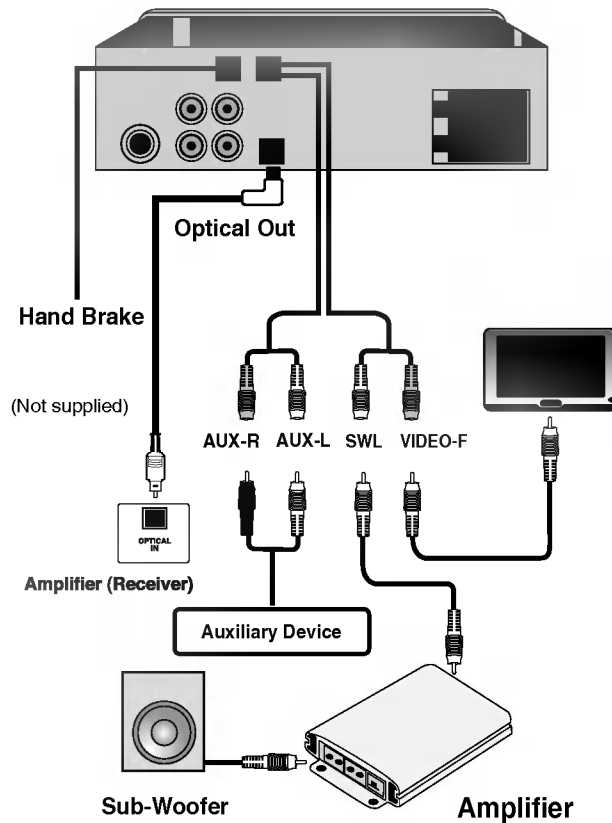
**C** Speaker Connections



**Connecting to Auxiliary Equipment (Optional)**

Connect the **AUDIO OUTPUT** connector of this unit to the **AUDIO INPUT** connector of the Auxiliary Equipment.





- **Hand Brake :**  
Be sure to wire the hand brake (Parking brake) for safety and preventing accidents.
- **SWL :**  
Connect the **SWL (Sub-Woofers)** connector of this unit to the **AUDIO INPUT** connector of the Sub-Woofers.
- **AUX-R/L :**  
Connect the **AUX-R/L** connector of this unit to the **AUX OUTPUT** connector of the Auxiliary Equipment.
- **VIDEO-F :**  
Connect the **VIDEO-F** connector of this unit to the **VIDEO INPUT** connector of the Auxiliary Equipment.
- **Optical Out :**  
Connecting to an amplifier equipped with two channel digital stereo (PCM) or to an Audio/ Video receiver equipped with a multi-channel decoder (Dolby Digital™, MPEG 2 or DTS). Connect the **OPTICAL OUT** connector of this unit to the corresponding jack on your Amplifier or Receiver.



### Turning the unit on

Press **PWR/MUTE** (**POWER** on the remote control.) or any other button.

#### **Note**

When you insert the CD in the CD slot, the unit turns on.

### Turning the unit off

Press and hold **PWR/MUTE**. (Press **POWER** on the remote control.)

### Inserting a disc

- 1 Press **▶** to open the front panel.
- 2 The disc is drawn in and playback starts automatically.

### Ejecting a disc

- 1 Press **▶** to open the front panel.
- 2 Press **▲**. The disc automatically ejects from the loading slot.  
When the disc is ejected by pressing **▲** during playback, it will be loaded automatically after 10 seconds unless you remove the disc from the unit.

#### **Note**

If a disc cannot be ejected, press **▲** for a long time with the front panel opened.

### Selecting a source

Press **SRC** to select a source. (Press **SOURCE** on the remote control.)

Each press changes the modes as follows.

TUNER → CD/DVD → AUX IN → TUNER

### Adjusting the volume

Rotate **VOL** to adjust the sound level. (Press **VOLA V** on the remote control.)

#### **Note**

When you turn the unit off, the current volume level is automatically memorized. Whenever you turn the unit on again, it will operate at the memorized volume level.

### Checking the clock

You can see the clock by pressing **INFO/CLK**.

#### **Note**

If the the RDS broadcasting with CT (Clock Time) information is received by the unit, the clock will be shown automatically in the display window. Unless, "No Clock" appears in the display window.

### Mute

- 1 Press **PWR/MUTE** (**MUTE** on the remote control.) to cut the sound.
- 2 To cancel it, press **PWR/MUTE** (**MUTE** on the remote control.) again.





## XDSS/XDSS+ (Extreme Dynamic Sound System)

Press and hold **EQ/XDSS** to reinforce treble, bass and surround effect.

XDSS off (No display) → XDSS → XDSS+

### Using the EQ (Equalizer)

The equalizer lets you adjust the equalization to match the acoustic characteristics of the car's interior as desired.

Press **EQ/XDSS** repeatedly. Each press changes the modes as follow.

Pop → Classic → Rock → Jazz → Vocal → Salsa → Samba → User1 → User2 → EQ off (No display)

- Pop : Optimized for R&B, Soul and Country music.
- Classic : Optimized for orchestral music.
- Rock : Optimized for Hard Rock and Heavy Metal music.
- Jazz : Sweet sound with soft feeling.
- Vocal : Powerful realism with strong sound quality.
- Salsa : Reproduces salsa music acoustics.
- Samba : Reproduces samba music acoustics.
- User1 : Set the sound level you want.
- User2 : Set the sound level you want.
- EQ OFF : Cancels equalizer play.

#### Note

You can adjust each sound level to your preference. Once you select a USER mode and then make an adjustment, it is automatically stored for the currently selected USER mode.

See "Adjusting the sound level".

### Adjusting the sound level

- 1 Press **SEL** repeatedly to select the mode you want to adjust from volume, bass, middle, treble, balance, fader and sub-woofer. Each press changes the modes as follow.  
VOL → BAS → MID → TRB → BAL → FAD → S-W
- 2 Rotate **VOL** (Press **VOL ▲ ▼** on the remote control) to adjust the sound quality.

	Turn right	Turn left
<b>VOL</b>	Increase the volume level.	Decrease the volume level.
<b>BAS</b>	Increase the bass level.	Decrease the bass level.
<b>MID</b>	Increase the middle level.	Decrease the middle level.
<b>TRB</b>	Increase the treble level.	Decrease the treble level.
<b>BAL</b>	Decrease the level of the left speaker(s).	Decrease the level of the right speaker(s).
<b>FAD</b>	Decrease the level of the front speaker(s).	Decrease the level of the rear speaker(s).
<b>S-W</b>	Increase the level of the Sub-Woofer.	Decrease the level of the Sub-Woofer.

#### Note

The unit can adjust the bass, middle and treble in the **User1**, **User2**, **EQ OFF** and **XDSS OFF**.



## Listening to radio stations

- 1 Press **SRC** to select the tuner.
- 2 Press **BAND** repeatedly to select a band.  
Each press changes the modes as follows. FM1 → FM2 → FM3 → MW(AM)
- 3 **Auto Search** : Press **<(left)/>(right)** or **SKIP ◀▶**.  
When a station is received, searching stops.  
**Manual Search** : Press **<(left)/>(right)** or **SKIP ◀▶** until "MANUAL" appears, and then press it repeatedly.  
The frequencies move up or down step by step.

## Storing broadcast frequencies

You can easily store up to 6 broadcast frequencies for later recall at the touch of a button.

- 1 Select the desired frequency.
- 2 Press one of the **preset station 1 ~ 6** buttons for more than 1 second.  
The number you have pressed will flash in the preset number indicator and then remain lit. The selected radio station frequency has been stored in memory.
- 3 Repeat the steps 1 and 2 to preset other stations.  
Next time, you press the same the **preset station 1 ~ 6** buttons, the radio station frequency is recalled from the memory.

### ★ Notes

- Up to 18 FM stations, 6 for each of three FM bands and 6 MW(AM) stations can be stored in the memory.
- When a station is stored on the preset numbers on which another station of the same band has already been preset, the previously preset station is automatically erased.

## Auto search memory

This function lets you automatically store the 6 strongest broadcast frequencies.

- 1 Press **SRC** to select the tuner.
- 2 Press and hold **AS/PS**.  
Scanning starts from the currently displayed frequency to higher frequencies and stops when 6 stations have been preset or the receivable frequencies have been scanned once.

## Scanning the preset stations

Press **AS/PS** on the front panel. To stop the scanning, press the **AS/PS**.

## Tuning in the preset stations

Press **BAND** to select the desired band and press the desired number (1-6).  
The number of the **preset station 1 ~ 6** buttons is displayed and the preset station is received.



## RDS display options

In normal RDS operation the display will indicate the station name. Pressing **INFO/CLK** enables you to cycle through the various data types in the following sequence:

CT → FREQUENCY → PTY → RT → PS

- **CT** (Time controlled by the channel)
- **PTY** (Programme type recognition)
- **RT** (Radio text recognition)
- **PS** (Programme Service name)
- **PI** (Programme Identification)
- **AF** (Alternative Frequencies for the actual programme)
- **TP** (Traffic programme Identification)
- **TA** (Traffic Announcement Identification)

## PTY (Programme Type) function

To select a certain programme type from the reception band, the following procedure may be used.

- 1 Press **BAND** to select the FM mode.
- 2 After, press the **PTY** repeatedly for selecting each mode.  
music group → speech group → search off
- 3 Short press one of the **preset station 1 ~ 6**.  
Each time this button is pressed, the display mode changes as follows.

No	Music group	No	Speech group
1.	Pop M, Rock M	1.	News, Affairs, Info
2.	Easy M, Light M.	2.	Sport, Educate, Drama
3.	Classics, Other M	3.	Culture, Science, Varied
4.	Jazz, Country	4.	Weather, Finance, Children
5.	Nation M, Oldies	5.	Social, Religion, Phone In
6.	Folk M	6.	Travel, Leisure, Document

### ★ **Note**

RDS is only available for FM reception.

## TA (Traffic Announcement Identification) function

TA function allows the unit to switch to traffic announcement (TA) from the current source. (Another FM station, CD, or other connected components.)

To switch the TA function on or off, press **TA/AF**.

### ★ **Notes**

- If TP indicator lights up, TA reception is activated.
- TA reception will not work if you are listening to an AM(MW) station.



## AF (Alternative Frequency)/REG (Region) function

You can select the different modes of network-tracking reception to continue listing to the same programme in its finest reception.

To switch the AF/REG function on or off, press and hold **TA/AF**.

### AF : On / REG : On

Network-Tracking reception is activated.

The unit switches to another station, within the same network when the receiving signals from the current station become weak.

Both the AF indication and the REG indicator light up.

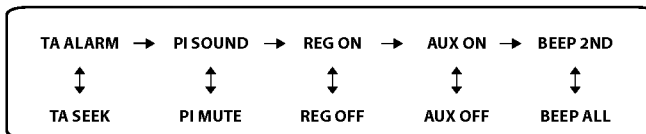
### AF : Off / REG : Off

Network-Tracking reception is deactivated.

Neither the AF indication nor the REG indicator lights up.

## Prefer setting mode adjustment

- 1 Press and hold **SEL** to activate the select mode.
- 2 After, press **SEL** repeatedly to select each mode.
- 3 Rotate **VOL** left or right (Press **VOL ▲ ▼** on the remote control) to select the indicator.



**TA ALARM mode** : When a newly tuned station has no TP information for 5 seconds, a double beep sound is output.

**TA SEEK mode** : When the newly tuned station does not receive TP information for 5 seconds, the receiver retunes to the next station which has the same PI as the last station, but has the TP information.

**PI SOUND mode** : If the sound of a station with different PI is heard intermittently, the receiver mutes the sound after 1 second.

**PI MUTE mode** : If the situation described above is repeated, the receiver instantly mutes the sound.

**REG ON mode** : Network-Tracking is activated.

The unit switches to another station, within the same network, broadcasting the same programme when the receiving signals from the current station become weak.

**REG OFF mode** : Network-Tracking is activated.

The unit switches to another station, within the same network when the receiving signals from the current station become weak.(In this mode, the programme may differ from the one currently received.)

**AUX ON mode** : When using a auxiliary equipment, activate the auxiliary setting when using auxiliary equipment connected to this unit.

**AUX OFF mode** : When not using a auxiliary equipment, deactivate the auxiliary setting when using auxiliary equipment connected to this unit.


**BEEP 2ND mode** : The beep is only generated when a key is long pressed. (1 sec)

**BEEP ALL mode** : The beep is generated when any key is pressed.



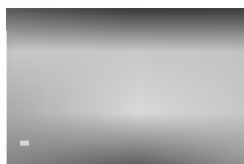


## Playing an Audio CD and MP3/WMA Disc

Press  on the front panel and then Insert a disc in the unit.

“Reading” appears in the display window, and playback starts automatically.

- The unit can play MP3/WMA recordings formatted on CD-ROM, CD-R or CD-RW discs. Before playing MP3/WMA recordings, read the notes on MP3/WMA Recordings on the page 38.
- If you change the source, CD play also stops (without ejecting the CD). Next time you select “CD” as a source, CD play starts from where playback was stopped previously.



Audio CD Menu



MP3/WMA Menu

### Pause

1. Press **Pause (II)** during playback.
2. To return to playback, press **PLAY (▶)** or press **Pause (II)** again.

### Skip to next track/file

Press **>(right)** or **SKIP▶▶▶** to select the next track or file.

### Skip to previous track/file

Press **<(left)** or **SKIPI◀◀◀** within 3 seconds of playing time.

### Return to the beginning of the current track/file

Press **<(left)** or **SKIPI◀◀◀** after 4 seconds of playing time.

### Search

Press and hold **<(left)/>(right)** or **SCAN/SLOW◀◀/▶▶** during playback and then release at the point you want.

### Intro scan

1. Press **SCAN** during playback.  
The “SCAN” appears on the screen.  
The first 10 seconds of all tracks on the disc are played in order.
2. To return to normal playback, press **SCAN** again.  
The “SCAN” disappears on the screen.





## Repeat

1. Press **RPT** or **REPEAT** during playback.  
The "1 RPT" appears on the screen.
2. To cancel the Repeat mode, press **RPT** or **REPEAT** again.

## Repeat : Folder

1. To play repeatedly the whole file within the folder, Press and hold **RPT** or **REPEAT** for about 1 second during playback.  
The "■ RPT" appears on the screen.
2. To cancel the Repeat mode, press **RPT** or **REPEAT** again.

## Shuffle

1. Press **SHF** or **SHUFFLE** during playback.  
Audio CD : The "SHF" appears on the screen.  
MP3/WMA : The "■ SHF" appears on the screen.  
(The MP3/WMA plays randomly the whole file within the folder.)
2. To return to normal playback, press **SHF** or **SHUFFLE** again.

### **Note**

During random playback, if you press the **I◀** (**I◀◀** on remote control), you won't go back to the previous track.

## CD TEXT / ID3 TAG

When playing a disc containing information, you can see the CD TEXT/ID3 TAG information. In CD TEXT, information about the disc (disc title, performer and track title) is recorded. In a ID3 TAG, information about the file (album title, Performer name, song title) is recorded. In a WMA Content, information about the file (album title, Performer name) is recorded. If there is no information, "NO ID3 TAG or No Album No Title No Artist" will be shown in the display window.

Press the **INFO/CLK** repeatedly during MP3/WMA/CD TEXT file playback.

## MP3/WMA TRACK -5/+5

During playback, press **-5** to go back to 5 tracks, and press **+5** to go forward to the next 5 track.

### **Note**

The time display appearing on the display part when playing a VBR file may vary and there may be some difference from the actual time (both progress time and VBR are displayed at the same time when playing a file).



## General Explanation

You can display the general playback status on the TV screen. Some items can be changed using the menu. To use the on-screen display.

## On-Screen Display


General playback status can be displayed on the TV screen. Some items can be changed on the menu.

## On-Screen Display operation

1. Press **DISPLAY** during playback.
2. Press **▲**(up)/**▼**(down) or **▲**(up)/**▼**(down) to select an item.  
The selected item will be highlighted.
3. Press **◀**(left)/**▶**(right) or **◀**(left)/**▶**(right) to change the setting.  
You can also use the numeric buttons if appropriate (e.g. inputting the title number).  
For some functions, press **ENT** to execute the setting.

## Playback Status/ Restrictions

 Chapter Repeat chapter



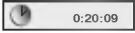

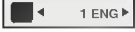
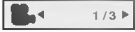
 Resume play from this point (Pre-Stop mode)

 Action prohibited or not available

### ✦ Notes

- Some discs may not provide all of the features on the on-screen display example shown below.
- If no button is pressed for 10 seconds, the on-screen display disappears.

### Example: On-Screen Display during playing DVD Video

Items		Selection Method
Title Number		◀ / ▶, < / > Numbers or ENTER
Chapter Number		◀ / ▶, < / > Numbers or ENTER
Time search		Numbers and ENTER
Audio language and Digital Audio Output mode		◀ / ▶, < / >
Subtitle language		◀ / ▶, < / >
Angle		◀ / ▶, < / >





### Example: On-Screen Display during playing VCD

Items		Selection Method
Track Number (PBC off mode)		◀ / ▶, < / > Numbers or ENTER
Time search		Numbers and ENTER
Audio Channel		◀ / ▶, < / >

### Initial Settings

By using the Setup menu, you can make various adjustments to items such as picture and sound. You can also set a language for the subtitles and the Setup menu, among other things. For details on each Setup menu item, see the pages 25 to 29.

#### To display and exit the Menu:

Press **SET UP** to display the menu. A second press of SET UP will take you back to initial screen. (You can also use the TRACK SKIP (-5) button on the front panel to display the menu.)

#### To go to the next level:

Press >(right) or ▶(right).

#### To go back to the previous level:

Press <(left) or ◀(left).

### General Operation

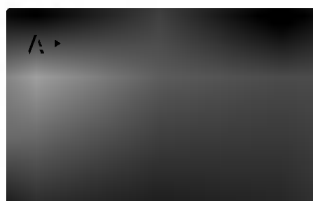
1. Press the -5 on the front panel or **SET UP** on the remote control. The Setup menu appears.
2. Use ▲(up)/▼(down) or ▲(up)/▼(down) to select the desired option then press >(right) or ▶ (right) to move to the second level. The screen shows the current setting for the selected item as well as alternate setting(s).
3. Use ▲(up)/▼(down) or ▲(up)/▼(down) to select the second desired option then press >(right) or ▶ (right) to move to the third level.
4. Use ▲(up)/▼(down) or ▲(up)/▼(down) to select the desired setting then press **ENTER** or **ENT** to confirm your selection. Some items require additional steps.
5. Press -5, **SET UP** or **PLAY** (▶) to exit the Setup menu.







## LANGUAGE



### Player Menu

Select a language for the Setup menu.

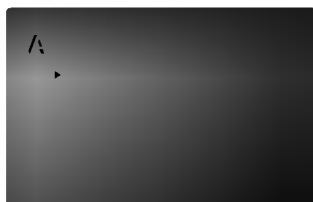
### Disc Audio / Subtitle / Menu

Select the language you prefer for the audio track (Disc Audio), subtitles, and the disc menu.

**Original** : Refers to the original language in which the disc was recorded.

**Other** : To select another language, press number buttons to enter the corresponding 4-digit number according to the language code list on the page 37. And then press **ENTER** or **ENT**. If you enter the wrong language code, input the complete 4-digit number and press **ENTER** or **ENT**. And then input the 4-digit number correctly.

## DISPLAY



### TV Type

**4:3**: Select when a standard 4:3 TV is connected.

**16:9** : Select when a 16:9 wide TV is connected.

### Display Mode

Display Mode setting works only when the TV Type mode is set to "4:3".

**Letterbox** : Displays a wide picture with bands on the upper and lower portions of the screen.

**Panscan** : Automatically displays the wide picture on the entire screen and cuts off the portions that do not fit.





## AUDIO

Each DVD disc has a variety of audio output options. Set the player's AUDIO options according to the type of audio system you use.



### Dolby Digital / DTS / MPEG

**Bitstream:** Select "Bitstream" if you connect the Car DVD Receiver's DIGITAL OUT jack to an amplifier or other equipment with a Dolby Digital, DTS or MPEG decoder.

**PCM (for Dolby Digital / MPEG):** Select when connected to a two-channel digital stereo amplifier. DVDs encoded in Dolby Digital or MPEG will be automatically downmixed to two-channel PCM audio.

**Off (for DTS):** If you select "Off", the DTS signal is not output through the DIGITAL OUT jack.

### Dynamic Range Control (DRC)

With the DVD format, you can hear a program's soundtrack in the most accurate and realistic presentation, thanks to digital audio technology. However, you may wish to compress the dynamic range of the audio output (the difference between the loudest sounds and the quietest ones). This allows you to listen to a movie at a lower volume without losing clarity of sound. Set DRC to On for this effect.



## LOCK (Parental Control)



### Rating

Some movies contain scenes that may not be suitable for children to view. Many of these discs contain parental control information that applies to the complete disc or to certain scenes on the disc. Movies and scenes are rated from 1 to 8, depending on the country. Some discs offer more suitable scenes as an alternative.

The parental control feature allows you to block access to scenes below the rating you input, thereby preventing your children from being able to view material you believe is unsuitable.

1. Select "Rating" on the LOCK menu then press **>**(right) or **▶**(right).
2. To access the Rating, Password and Country Code features, you must input the 4-digit security code you created. If you have not yet entered a security code you are prompted to do so.  
Input a 4-digit code and press **ENTER** or **ENT**. Enter it again and press **ENTER** or **ENT** to verify. If you make a mistake before pressing **ENTER** or **ENT**, press **<**(left) or **◀**(left).
3. Select a rating from 1 to 8 using **▲**(up)/**▼**(down) or **▲**(up)/**▼**(down) buttons.

**Rating 1-8:** Rating one (1) has the most restrictions and rating eight (8) is the least restrictive.

### Unlock

If you select unlock, parental control is not active and the disc plays in full.

4. Press **ENTER** or **ENT** to confirm your rating selection, then press **SET UP** to exit the menu.

### **Note**

If you set a rating for the player, all disc scenes with the same rating or lower are played. Higher rated scenes are not played unless an alternate scene is available on the disc. The alternative must have the same rating or a lower one. If no suitable alternative is found, playback stops. You must enter the 4-digit password or change the rating level in order to play the disc.



### **Password (Security Code)**

You can enter or change password.

1. Select Password on the LOCK menu then press **>(right)** or **▶(right)**.
2. Follow the step 2 as shown on the page 27 (Rating).
3. Enter the new 4-digit code, then press **ENTER** or **ENT**. Input it again to verify.
4. Press SET UP to exit the menu.


### **If you forget your Security Code**

If you forget your security code you can clear it using the follow setup.

1. Press SET UP to display the Setup menu.
2. Input the 6-digit number "210499" and the security code is cleared.
3. Enter a new code as described above.

### **Country Code**

Enter the code of the country/area whose standards were used to rate the DVD video disc, based on the list in the reference chapter.

1. Select "Country Code" on the LOCK menu then press **>(right)** or **▶(right)**.
  2. Follow the step 2 as shown on the page 27 (Rating).
  3. Select the first character using **▲(up)/▼(down)** or **▲(up)/▼(down)** buttons.
  4. Shift the cursor using **>(right)** or **▶(right)** button and select the second character using **▲(up)/▼(down)** or **▲(up)/▼(down)** buttons.
  5. Press **ENTER** or **ENT** to confirm your country code selection.
- 

## OTHERS

The PBC, Auto Play and B.L.E. settings can be changed.



### **PBC**

Set Playback Control (PBC) to On or Off.

**On:** Video CDs with PBC are played according to the PBC.

**Off:** Video CDs with PBC are played in the same way as Audio CDs.

#### **Note**

The PBC function is only available for playing the Video CD 2.0.

### **Auto Play**

You can set up the Car DVD receiver so a DVD disc automatically starts playing whenever the DVD is inserted.

If Auto Play mode is set to On, this Car DVD receiver will search for the title that has the longest playback time and then playback the title automatically.

**On:** Auto Play function is active.

**Off:** Auto Play function is not active.

#### **Note**

The Auto Play function may not work for some DVDs.

### **B.L.E. (Black Level Expansion)**

To select the black level of playback pictures. Set your preference and monitor's ability.

**On:** Expanded grey scale.

**Off:** Standard grey scale.



#### **Note**

The B.L.E. function works NTSC system only.













## Playing a DVD and Video CD

1. Press  on the front panel.
2. Insert a disc in the unit.  
“Reading” appears on the display window, and playback starts automatically. If playback does not start, press **PLAY** ().  
In some cases, the disc menu might appear instead.

### **Note**

- **If a menu screen is displayed**  
The menu screen may be displayed first after loading a DVD or Video CD 2.0 which offers a menu.
- **Auto reloading**  
If any button is not pressed after a disc is ejected, a disc is loaded automatically in about 10 seconds.



Use the the  (left)/ (right)/ (up)/ (down) or  (left)/ (right)/ (up)/ (down) buttons to select the title/chapter you want to view, then press **ENTER** to start playback.  
Press **DVD MENU** to return to the menu screen.




Use the numeric buttons to select the track you want to view.  
Press **RETURN** to return to the menu screen. Menu settings and operating procedures may differ. Follow the instructions on the each menu screen. You also may set PBC to On under setup. See the page 29.



### **Notes**

- If parental control is set and the disc is not within the rating settings you must input the password. (See “LOCK” menu on the page 27).
- DVDs may have a region code. Your player does not play discs that have a region code different from your player.

## Pre-Stop

1. Press **STOP** () during playback.  
“Pre-Stop” appears in the display window.
2. To return to playback, if you press **PLAY** () on the Pre-Stop mode, it will be played from this point you stop.

## Stop

1. Press **STOP** () on the Pre-Stop mode.
2. To return to playback, if you press **PLAY** (), it will be played from the first point of the disc.



## Pause

1. Press **PAUSE (II)** during playback.
2. To return to playback, press **PLAY (▶)**.

## Still Picture and Frame-by-Frame playback

1. Press **PAUSE (II)** during playback.  
The unit will now go into the PAUSE mode.
2. You can advance the picture frame-by-frame by pressing **PAUSE (II)** repeatedly on the remote control.
3. To return normal playback, press **PLAY (▶)**.

## Slow Motion

1. Press **PAUSE (II)** during playback.  
The unit will now go into the PAUSE mode.
2. Use the **SCAN/SLOW ◀◀/▶▶** to select the required speed: ◀◀ 1/16, ◀◀ 1/8, ◀◀ 1/4, or ◀◀ 1/2 (backward), or ▶▶ 1/16, ▶▶ 1/8, ▶▶ 1/4, or ▶▶ 1/2 (forward).  
With a Video CD, the Slow speed changes: ▶▶ 1/16, ▶▶ 1/8, ▶▶ 1/4 or ▶▶ 1/2 (forward).
3. To exit Slow Motion mode, press **PLAY (▶)**.

### **Note**

Slow motion playback in reverse is not possible with Video CDs.

## Moving to another TITLE

When a disc has more than one title, you can move to another title as follows:

1. Press **DISPLAY**.
2. Press the appropriate numbered button (0-9) to select a title number.

## Search






1. Press **SCAN/SLOW ◀◀/▶▶** briefly on the remote control during playback.  
The unit will now go into SEARCH mode.
2. Press and hold ◀◀(left)/▶▶(right) or **SCAN/SLOW ◀◀/▶▶** repeatedly to select the required speed: ◀◀X2, ◀◀X4, ◀◀X16, ◀◀X100 (backward) or ▶▶X2, ▶▶X4, ▶▶X16, ▶▶X100 (forward).  
With a Video CD, the Search speed changes: ◀◀X2, ◀◀X4, ◀◀X8, (backward) or ▶▶X2, ▶▶X4, ▶▶X8, (forward).
3. To return normal playback, press **PLAY (▶)**.





## Moving to another CHAPTER/TRACK

When a title on a disc has more than one chapter or a disc has more than one track, you can move to another chapter/track as follows:

- Press <(left)/>(right) or **SKIPI**   briefly during playback to select the next chapter/track or to return to the beginning of the current chapter/track.
- Press <(left) or **SKIPI**  twice briefly to step back to the previous chapter/track.
- To go directly to any chapter during DVD playback, press **DISPLAY** and press the **▲(up)/▼(down)** or **▲(up)/▼(down)** to select the chapter/track icon. Then, input the chapter/track number or use <(left)/>(right) or  .

### **Note**

For two-digit numbers, press the numbered buttons (0-9) in rapid succession.

## Repeat

### DVD Video Discs - Repeat Chapter/Title/Off

1. To repeat the currently playing chapter, press **RPT** or **REPEAT**.  
The Repeat "Chapter" icon appears on the TV screen.
2. To repeat the title currently playing, press **RPT** or **REPEAT** for more than 1 second.  
The Repeat "Title" icon appears on the TV screen.
3. To exit the Repeat mode, press **RPT** or **REPEAT** again.  
The Repeat "Off" icon appears on the TV screen.

### Video CDs - Repeat Track/OFF

1. To repeat the currently playing track, press **RPT** or **REPEAT**.  
The Repeat "Track" icon appears on the TV screen.
2. To exit Repeat mode, press **RPT** or **REPEAT** again.  
The Repeat "OFF" icon appears on the TV screen.

### **Note**

On a Video CD with PBC, you must set PBC to Off on the setup menu to use the repeat function. (See "PBC" on the page 29.)





## Shuffle

1. Press **SHF** or **SHUFFLE** during playback.  
The unit automatically begins random playback and "Random" appears on the TV screen.
2. To return normal playback, press **SHF** or **SHUFFLE** again.  
"Normal" appears on the TV screen.

### ★ Notes

- On a Video CD with PBC, you must set PBC to Off on the setup menu to use the random function (See "PBC" on page 29).
- By pressing **>**(right) or **SKIP▶▶** during random playback, the unit selects another title (track) and resumes random playback.

## Time Search

The Time Search function allows you to start playing at any chosen time on the disc.

1. Press **DISPLAY** during playback. The on-screen display appears on the screen.  
The Time Search box shows the elapsed playing time of the current disc.
2. Within 10 seconds, press **▲**(up)/**▼**(down) or **▲**(up)/**▼**(down) to select the Time Search icon in the on-screen display.  
The ":-:--" appears in the Time Search box.
3. Within 10 seconds, use the numeric buttons to enter the required start time. Enter hours, minutes, and seconds from left to right in the box.
4. Within 10 seconds, press **ENTER** to confirm the start time.  
Playback starts from the selected time on the disc. If you enter an invalid time, playback will continue from the current point.

## Checking the contents of DVD Video discs: Menus

DVDs may offer menus that allow you to access special features. To use the disc menu, press **DVD MENU**. Then, press the appropriate numeric button to select an option.

Or, use the **▲**(up)/**▼**(down)/**<**(left)/**>**(right) or **▲**(up)/**▼**(down)/**<**(left)/**>**(right) buttons to highlight your selection, then press **ENTER** or **ENT**.

## Disc Menu

1. Press **TRACK SKIP (+5)** on the front panel or **DVD MENU** on the remote control.  
The disc menu is displayed.
2. To remove the disc menu, press **TRACK SKIP (+5)** on the front panel or **DVD MENU** on the remote control again.



### Camera Angle

If the disc contains scenes recorded at different camera angles, you can change to a different camera angle during playback.

- Press **ANGLE** on the remote control repeatedly during playback to select a desired angle. The number of the current angle appears on the display.

### Changing the Audio Language

Press **AUDIO** repeatedly during playback to hear a different audio language or audio track.


### Changing the Audio Channel

1. Press **DISPLAY** and then press **▲(up)/▼(down)** or **▲(up)/▼(down)** to select a audio channel.
2. Select a desired audio channel (  ,  ,  ) pressing **◀(left)/▶(right)** or **◀(left)/▶(right)** buttons.

### Subtitles


Press **SUBTITLE** repeatedly during playback to see the different subtitle languages.

#### **Note**

If the icon  appears, the feature is not available on the disc.





Symptom	Cause	Correction
Power doesn't turn on. The unit doesn't operate.	<ul style="list-style-type: none"><li>● Leads and connectors are not properly connected.</li><li>● The fuse has blown.</li><li>● Noise and other factors are causing the built-in microprocessor to operate incorrectly.</li></ul>	<ul style="list-style-type: none"><li>● Confirm once more that all connections are correct.</li><li>● Rectify the problem which caused the fuse to blow, and then replace it. Be very sure to install the correct fuse of the same rating.</li><li>● Turn the unit off and then on.</li></ul>
The unit does not operate correctly even when the appropriate remote control buttons are pressed.	<ul style="list-style-type: none"><li>● Battery power is low.</li><li>● Some operations with certain discs are prohibited .</li></ul>	<ul style="list-style-type: none"><li>● Load new battery.</li><li>● Check with another disc.</li></ul>
Playback is not possible.	<ul style="list-style-type: none"><li>● The disc is dirty.</li><li>● The loaded disc is the type that this unit cannot play.</li></ul>	<ul style="list-style-type: none"><li>● Clean the disc.</li><li>● Check the type of the disc.</li></ul>
No sound is heard. The volume level doesn't rise.	<ul style="list-style-type: none"><li>● Cables are not connected correctly.</li></ul>	<ul style="list-style-type: none"><li>● Connect the cables correctly.</li></ul>
There's no picture.	<ul style="list-style-type: none"><li>● The parking brake cord is not connected.</li><li>● The parking brake cord is not applied.</li></ul>	<ul style="list-style-type: none"><li>● Connect a parking brake cord, and apply the parking brake.</li><li>● Connect a parking brake cord, and apply the parking brake.</li></ul>
The icon  is displayed, and operation is not possible.	<ul style="list-style-type: none"><li>● The operation is prohibited for the disc.</li><li>● The operation is not compatible with the disc's organization.</li></ul>	<ul style="list-style-type: none"><li>● This operation is not possible.</li><li>● This operation is not possible.</li></ul>





Symptom	Cause	Correction
The picture stops (pauses) and the unit cannot be operated.	<ul style="list-style-type: none"><li>● Reading of data has become impossible during playback.</li></ul>	<ul style="list-style-type: none"><li>● After pressing ■ once, start playback once more.</li></ul>
There's no sound.	<ul style="list-style-type: none"><li>● The volume level is low.</li></ul>	<ul style="list-style-type: none"><li>● Adjust the volume.</li></ul>
There's audio and video skipping.	<ul style="list-style-type: none"><li>● This unit is not firmly secured.</li></ul>	<ul style="list-style-type: none"><li>● Secure this unit firmly.</li></ul>
The picture is stretched, the aspect is incorrect.	<ul style="list-style-type: none"><li>● The aspect setting is incorrect for the display.</li></ul>	<ul style="list-style-type: none"><li>● Select the appropriate setting for your display.</li></ul>

## Language Codes

Enter the appropriate code number for the initial settings "Disc Audio", "Disc Subtitle" and/or "Disc Menu" (See the page 25).

Language	Code	Language	Code	Language	Code	Language	Code
Abkhazian	6566	Fiji	7074	Lingala	7678	Singhalese	8373
Afar	6565	Finnish	7073	Lithuanian	7684	Slovak	8375
Afrikaans	6570	French	7082	Macedonian	7775	Slovenian	8376
Albanian	8381	Frisian	7089	Malagasy	7771	Somali	8379
Ameharic	6577	Galician	7176	Malay	7783	Spanish	6983
Arabic	6582	Georgian	7565	Malayalam	7776	Sudanese	8385
Armenian	7289	German	6869	Maltese	7784	Swahili	8387
Assamese	6583	Greek	6976	Maori	7773	Swedish	8386
Aymara	6588	Greenlandic	7576	Marathi	7782	Tagalog	8476
Azerbaijani	6590	Guarani	7178	Moldavian	7779	Tajik	8471
Bashkir	6665	Gujarati	7185	Mongolian	7778	Tamil	8465
Basque	6985	Hausa	7265	Nauru	7865	Tatar	8484
Bengali; Bangla	6678	Hebrew	7387	Nepali	7869	Telugu	8469
Bhutani	6890	Hindi	7273	Norwegian	7879	Thai	8472
Bihari	6672	Hungarian	7285	Oriya	7982	Tibetan	6679
Breton	6682	Icelandic	7383	Panjabi	8065	Tigrinya	8473
Bulgarian	6671	Indonesian	7378	Pashto; Pushto	8083	Tonga	8479
Burmese	7789	Interlingua	7365	Persian	7065	Turkish	8482
Byelorussian	6669	Irish	7165	Polish	8076	Turkmen	8475
Cambodian	7577	Italian	7384	Portuguese	8084	Twi	8487
Catalan	6765	Japanese	7465	Quechua	8185	Ukrainian	8575
Chinese	9072	Javanese	7487	Rhaeto-Romance	8277	Urdu	8582
Corsican	6779	Kannada	7578	Rumanian	8279	Uzbek	8590
Croatian	7282	Kashmiri	7583	Russian	8285	Vietnamese	8673
Czech	6783	Kazakh	7575	Samoan	8377	Volapük	8679
Danish	6885	Kirghiz	7589	Sanskrit	8365	Welsh	6789
Dutch	7876	Korean	7579	Scots Gaelic	7168	Wolof	8779
English	6978	Kurdish	7585	Serbian	8382	Xhosa	8872
Esperanto	6979	Laothian	7679	Serbo-Croatian	8372	Yiddish	7473
Estonian	6984	Latin	7665	Shona	8378	Yoruba	8979
Faroese	7079	Latvian; Lettish	7686	Sindhi	8368	Zulu	9085

## Area Codes

Enter the appropriate code number for the initial setting "Country Code" (See page 28).

Area	Code	Area	Code	Area	Code	Area	Code
Afghanistan	AF	Ethiopia	ET	Malaysia	MY	Saudi Arabia	SA
Argentina	AR	Fiji	FJ	Maldives	MV	Senegal	SN
Australia	AU	Finland	FI	Mexico	MX	Singapore	SG
Austria	AT	France	FR	Monaco	MC	Slovak Republic	SK
Belgium	BE	Germany	DE	Mongolia	MN	Slovenia	SI
Bhutan	BT	Great Britain	GB	Morocco	MA	South Africa	ZA
Bolivia	BO	Greece	GR	Nepal	NP	South Korea	KR
Brazil	BR	Greenland	GL	Netherlands	NL	Spain	ES
Cambodia	KH	Heard and McDonald Islands	HM	Netherlands Antilles	AN	Sri Lanka	LK
Canada	CA	Hong Kong	HK	New Zealand	NZ	Sweden	SE
Chile	CL	Hungary	HU	Nigeria	NG	Switzerland	CH
China	CN	India	IN	Norway	NO	Taiwan	TW
Colombia	CO	Indonesia	ID	Oman	OM	Thailand	TH
Congo	CG	Israel	IL	Pakistan	PK	Turkey	TR
Costa Rica	CR	Italy	IT	Panama	PA	Uganda	UG
Croatia	HR	Jamaica	JM	Paraguay	PY	Ukraine	UA
Czech Republic	CZ	Japan	JP	Philippines	PH	United States	US
Denmark	DK	Kenya	KE	Poland	PL	Uruguay	UY
Ecuador	EC	Kuwait	KW	Portugal	PT	Uzbekistan	UZ
Egypt	EG	Libya	LY	Romania	RO	Vietnam	VN
El Salvador	SV	Luxembourg	LU	Russian Federation	RU	Zimbabwe	ZW



**MP3/WMA Disc compatibility with this unit is limited as follows:**

1. Sampling Frequency / 8 - 48kHz (MP3), 22.05 - 48kHz (WMA)
2. Bit rate / within 8 - 320kbps (include VBR) (MP3), 32 - 320kbps (WMA)
3. CD-R/CD-RW physical format should be "ISO 9660"
4. If you record MP3/WMA files using software which cannot create a FILE SYSTEM, for example "Direct-CD" etc., it will not be possible to playback MP3/WMA files. We recommend that you use "Easy-CD Creator" which can create an ISO9660 file system.

**Customers should also note that permission is required in order to download MP3/WMA files and music from the Internet.**

**Our company has no right to grant such permission.**

**Permission should always be sought from the copyright owner.**

**GENERAL**

Output Power	.50W x 4CH (Max.)
Power Source	.DC 12V
Speaker impedance	.4 $\Omega$
Ground System	Negative
Dimensions (W x H x D)	.182 x 51 x 171 mm (Without Front Panel)
Net Weight	.1.5 kg

**CD/DVD/VCD SECTION**

Frequency Response	.20 Hz-20 kHz
S/N Ratio	.95 dB
Distortion	.0.1%
Channel Separation (1kHz)	.70 dB

**RADIO SECTION**

**FM**

Frequency Range	.65-74, 87.5-107.9 or 87.5-108 MHz
S/N Ratio	.55 dB
Distortion	.0.7%
Usable Sensitivity	.12 dB $\mu$ V

**AM (MW)**

Frequency Range	.520-1720 or 522-1620 kHz
S/N Ratio	.45 dB
Distortion	.1.0%
Usable Sensitivity	.28 dB $\mu$ V





P/NO : MFL34866402