



Car DVD Receiver

OWNER'S MANUAL *MODEL : TCD-100R*



Before connecting, operating or adjusting this product,
please read this instruction booklet carefully and completely.





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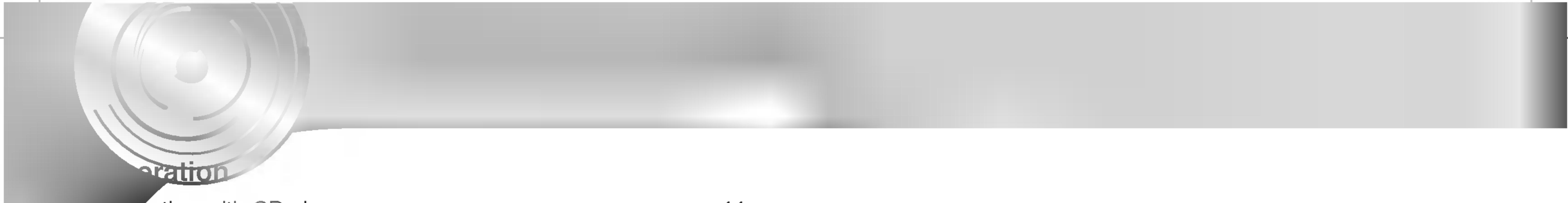


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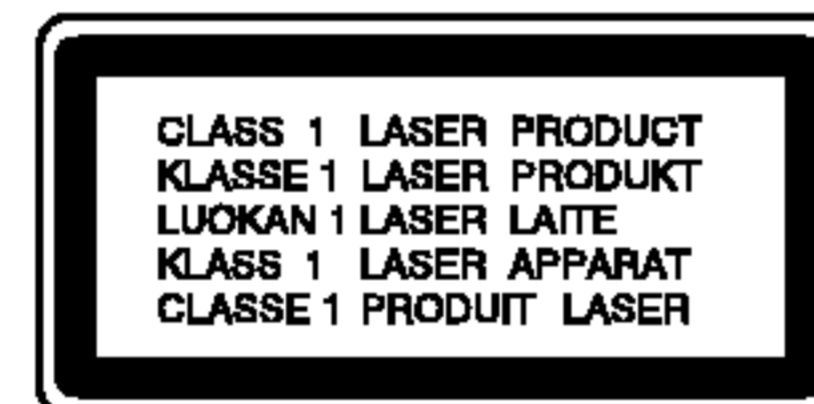
CAUTION



Warning: 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.



Warning: To reduce the risk of fire or electric shock, do not expose this product to dripping or splashing water, rain, or moisture. Do not place objects filled with water such as vases, on the product.



Caution: Do not install this product in a confined space such as a book case or similar unit.



Caution: Never install the display in a location that enables the driver to watch the DVD or Video CD while driving.



Caution: Protect this product from moisture.



Caution: If the battery is disconnected or discharged, the preset memory will be erased and must be reprogrammed.

NOTES

- Keep this manual handy as a reference for operating procedures and precautions.
- Always keep the volume low enough so you can hear sounds outside of the car.

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.

When using a display connected to DVD REAR MONITOR OUTPUT

This unit's **DVD REAR MONITOR OUTPUT** is for connection of a display to enable passengers in the rear seats to watch DVD or Video CD.



To ensure proper use of this product, please read this owner's manual carefully and retain for future reference.

Symbol Used in this Manual



The lightning flash symbol alerts you to the presence of dangerous voltage within the product enclosure that may constitute a risk of electric shock.



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

NOTE

Indicates special notes and operating features.

TIP

Indicates tips and hints for making the task easier.

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 discs




WMA discs



CD changer

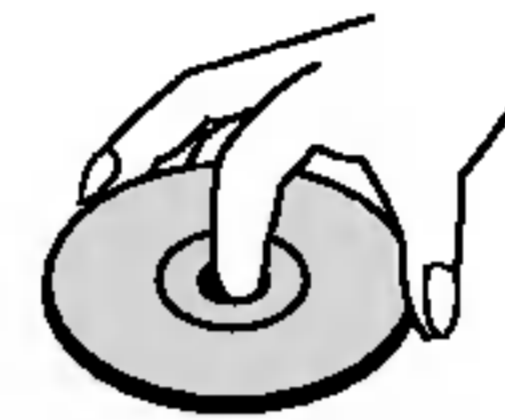
About the Symbol Display

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

Notes on Discs

Handling Discs

Do not touch the playback side of the disc. Hold the disc by the edges so that fingerprints do not get on the surface. Never 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 and never leave it in a parked car exposed to direct sunlight.





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, benzine, thinner, commercially available cleaners, or anti-static spray intended for older vinyl records.

Types of Playable Discs

	DVD (8 cm / 12 cm disc)
	Video CD (VCD) (8 cm / 12 cm disc)
	Audio CD (8 cm / 12 cm disc)
	Audio CD with CD TEXT function (8 cm / 12 cm disc)

In addition, this unit plays DVD±R, DVD±RW and CD-R or CD-RW that contains 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 content 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 encoded DVD software. This unit can play only DVD discs labeled "2" or "ALL".

Notes on Regional Codes

- Most DVD discs have a globe with one or more numbers in 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 (II)** 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.

**DVD video playback**

It is possible to play back DVD video, DVD±R and DVD±RW.

Video CDs featuring PBC compatibility

It is possible to play back Video CDs featuring PBC (Playback control).

CD playback

It is possible to play back music CD/CD-R/CD-RW.

MP3 file playback

It is possible to play back MP3 files recorded on CD-ROM/CD-R/CD-RW.

WMA playback

It is possible to play back WMA (Windows media audio file).
A type of coding / decoding developed by Microsoft Corp.

NTSC/PAL compatibility

This unit is NTSC/PAL system compatible.
When connecting other components to this unit, be sure components are compatible with the same video system or else will not be correctly reproduced.

Dolby Digital/DTS compatibility

When using this unit with a multi channel processor, you can enjoy the atmosphere and excitement provided by DVD movie and music software featuring 5.1 channel recordings.

- Manufactured under license from Dolby Laboratories. “Dolby” and the double-D symbol are trademarks of Dolby Laboratories.
- “DTS” is registered trademark of Digital Theater Systems, Inc.

Multi-aspect

Switching between wide screen, letterbox and panscan display is possible.

Multi-audio

You can switch between multiple audio system recorded on a DVD as desired.

Multi-subtitle

You can switch between multiple subtitle languages recorded on a DVD as desired.

Multi-angle

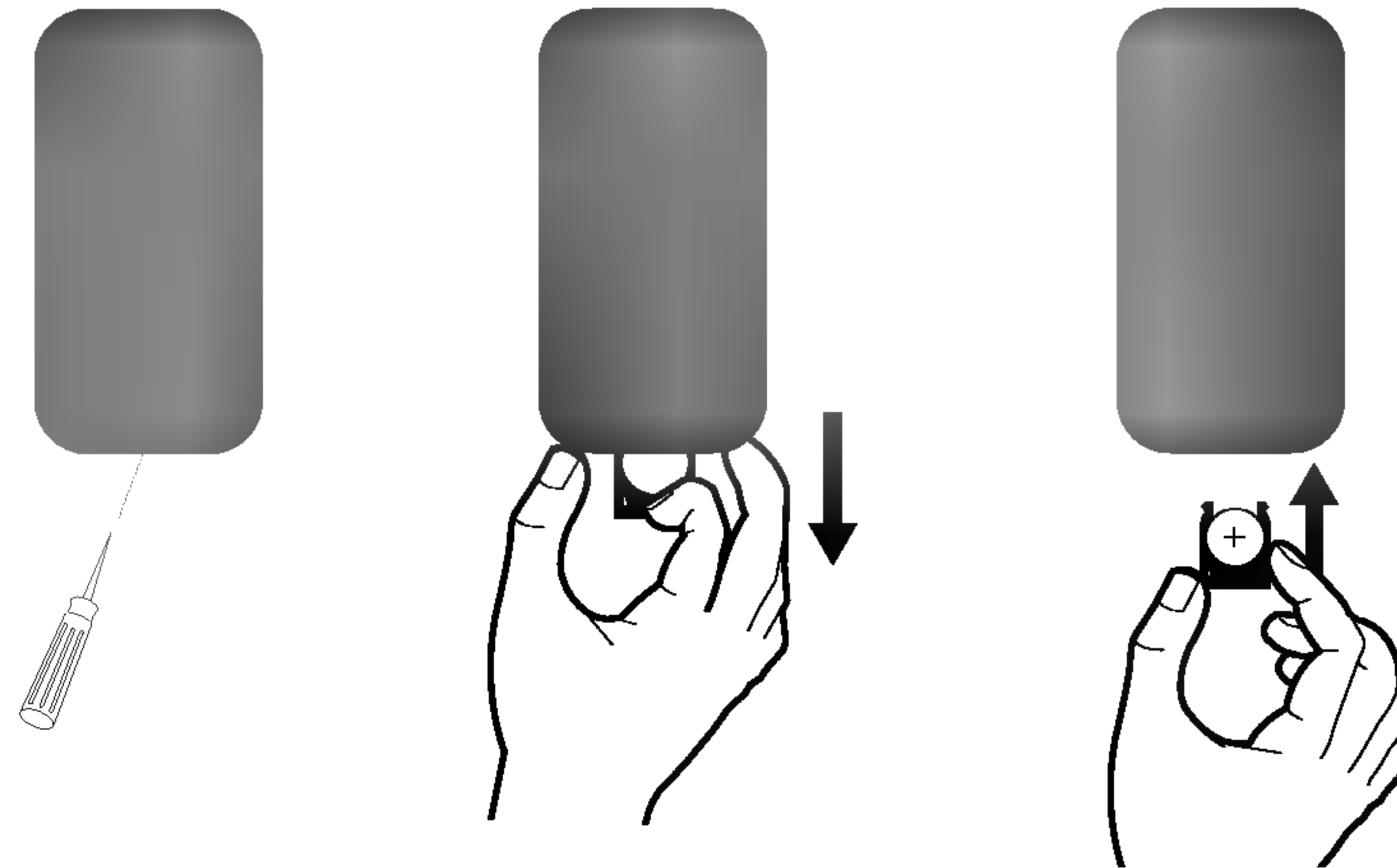
You can switch between multiple viewing angles of a scene recorded on a DVD as desired.



Use and care of the remote control

Installing the battery

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



NOTES

- Use only one CR2025 (3V) lithium battery.
- Remove the battery if the remote control is not used for long.
- Do not recharge, disassemble, heat or dispose of the battery in fire.
- 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.

Using the remote control

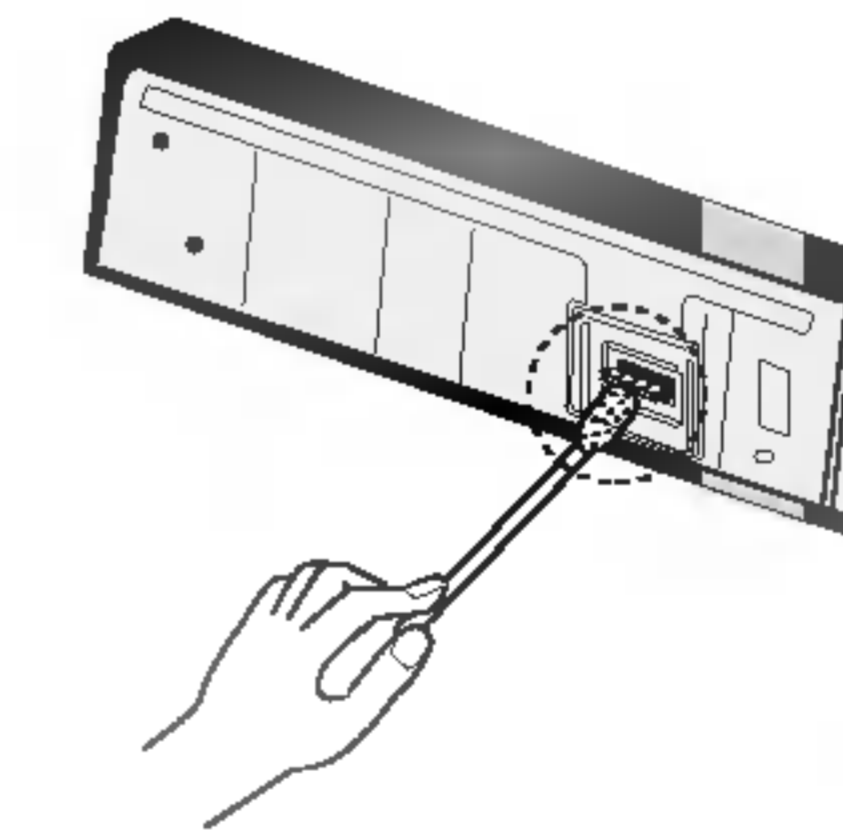
Point the remote control in the direction of the front panel to operate.

NOTES

- The remote control may not function properly in direct sunlight.
- Do not store the remote control in high temperatures or sunlight.
- Do not let the remote control fall onto the floor, where it may become jammed under the brake or accelerator pedal.


Handling the Unit

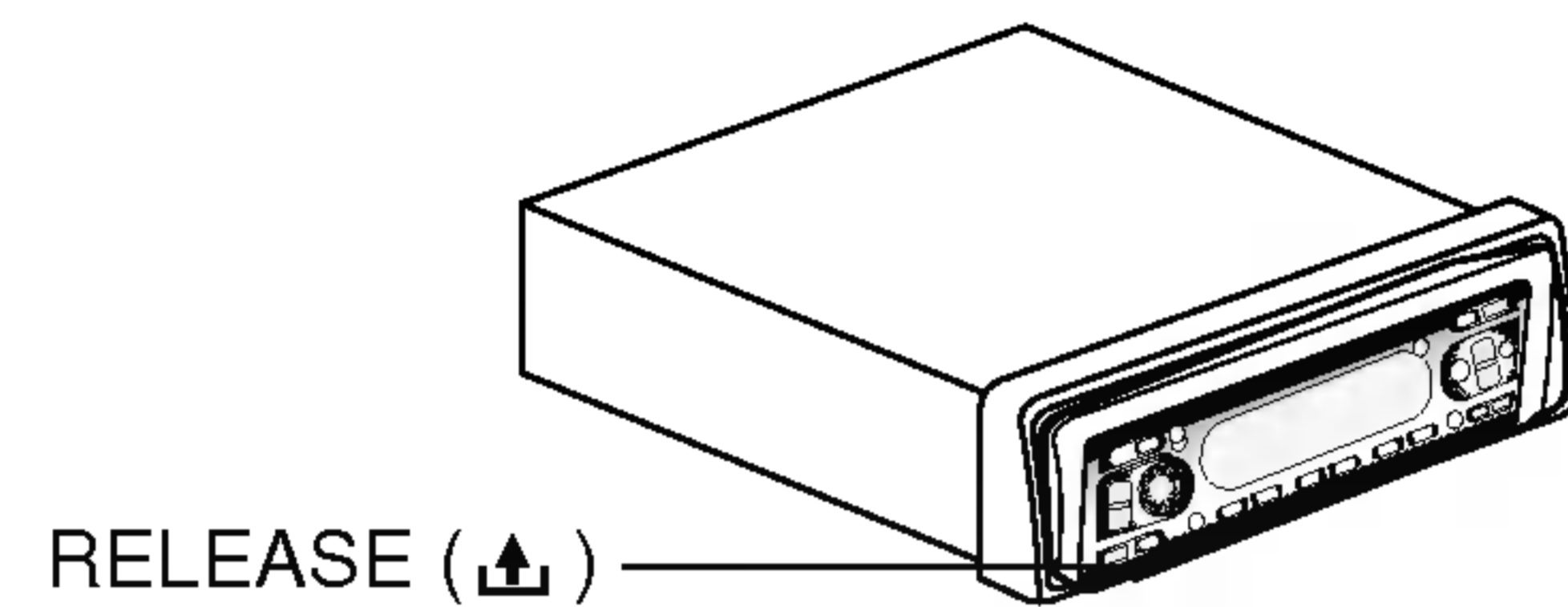
- This unit is designed to be operated on a 12 volt DC negative ground electrical system only.
- When replacing the fuse, be sure to use the fuse whose amperage rating is identical. Use of a fuse with higher amperage may cause serious damage to the unit.
- Periodically wipe the contacts on the back of the front panel with a cotton swap moistened with alcohol.



Protecting your unit from theft

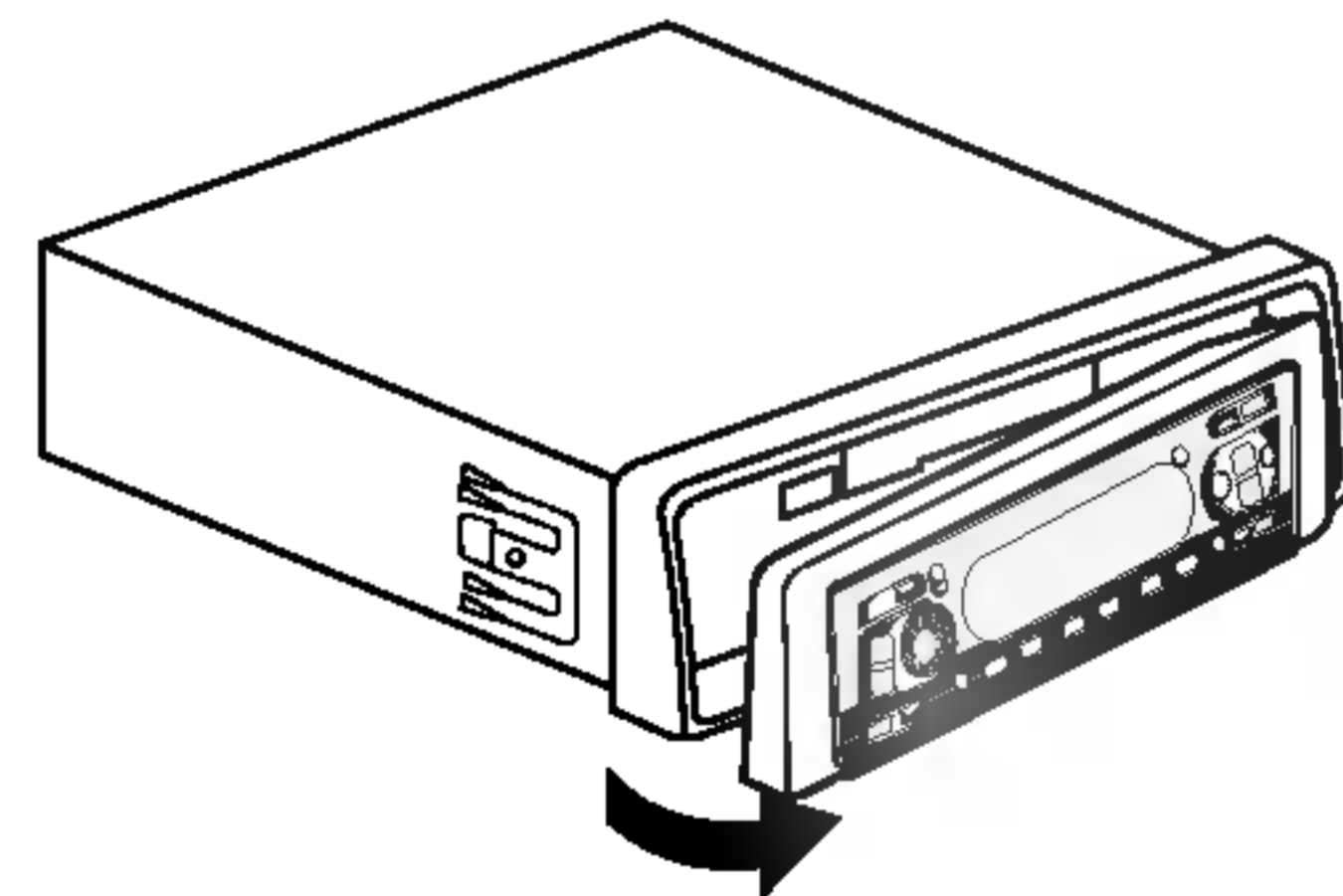
The front panel can be detached from the head unit and stored in the protective case provided to discourage theft.

1. Press **RELEASE**  to open the front panel.

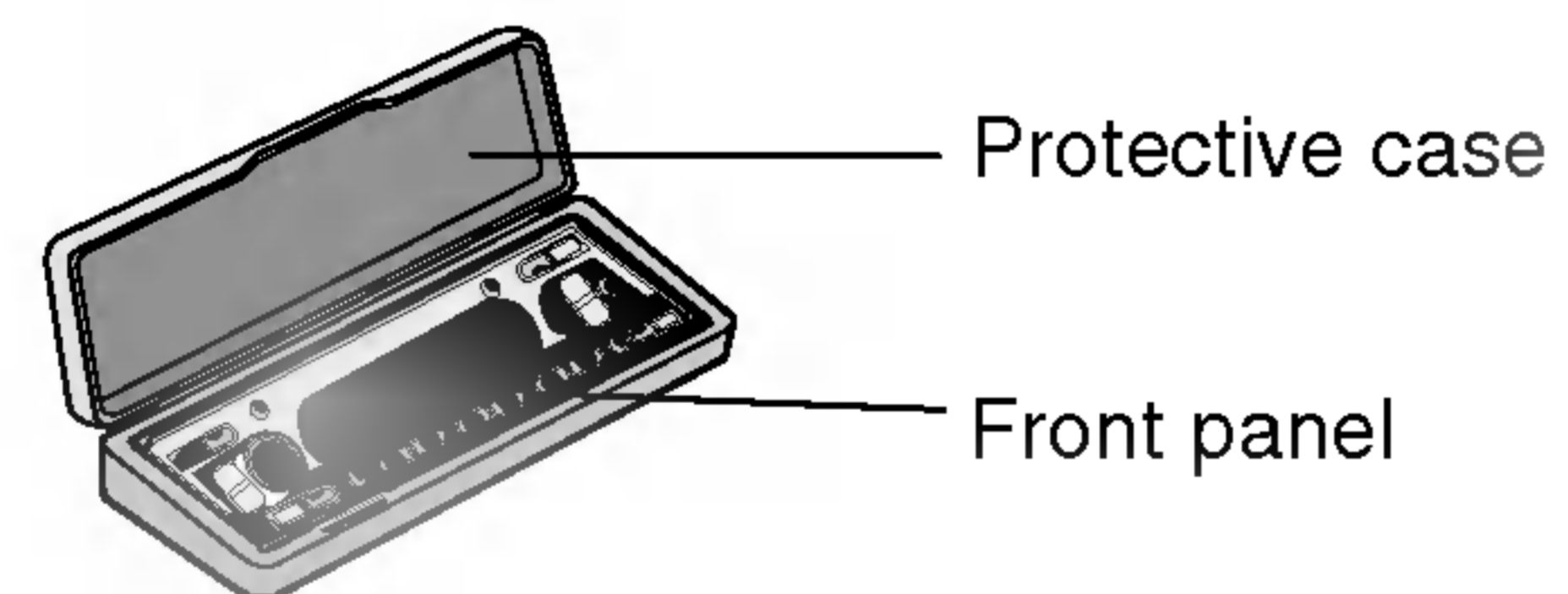


2. Grip the left side of the front panel and pull it gently outward.

Take care not to grip it tightly or to drop it.

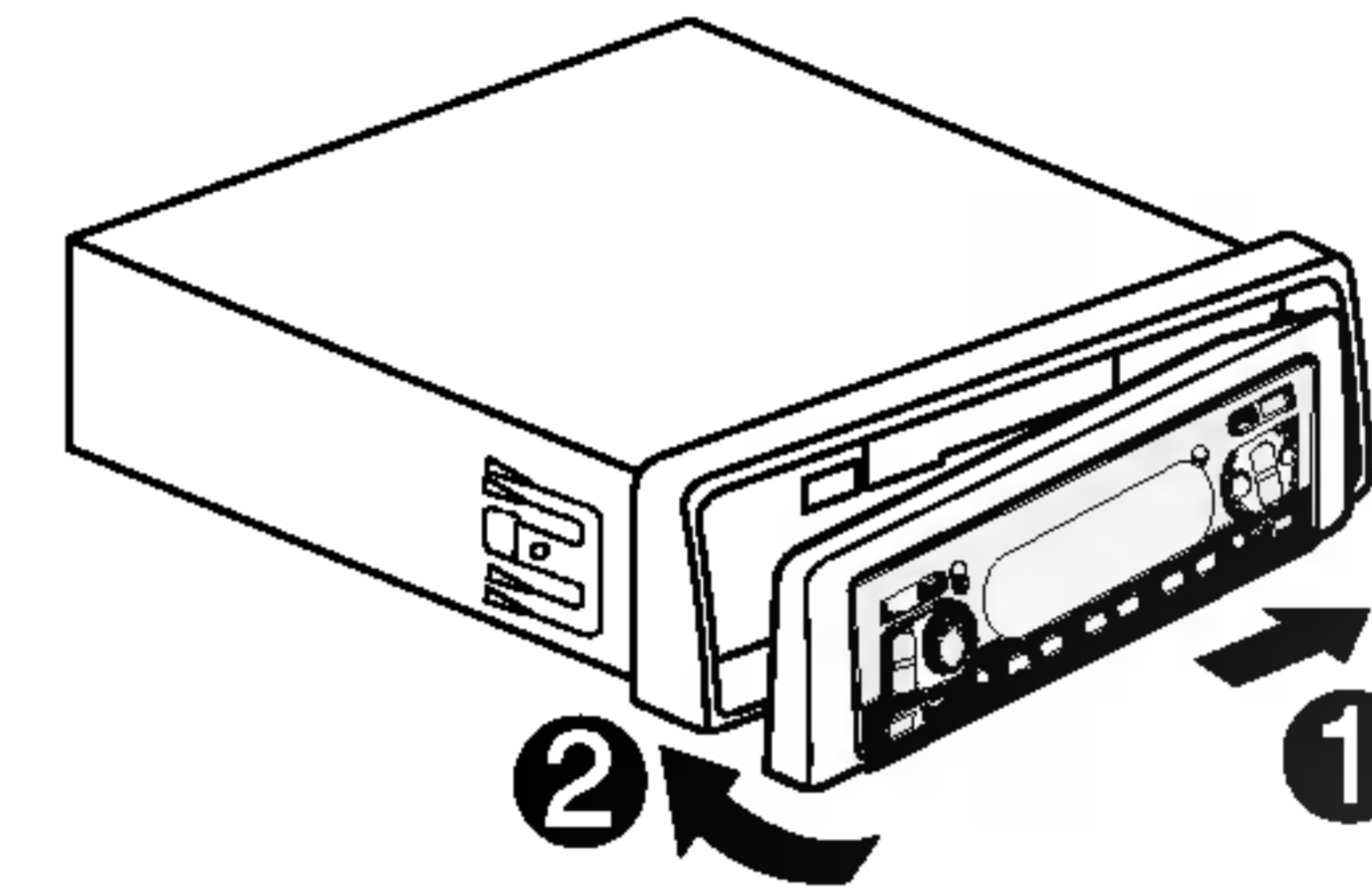


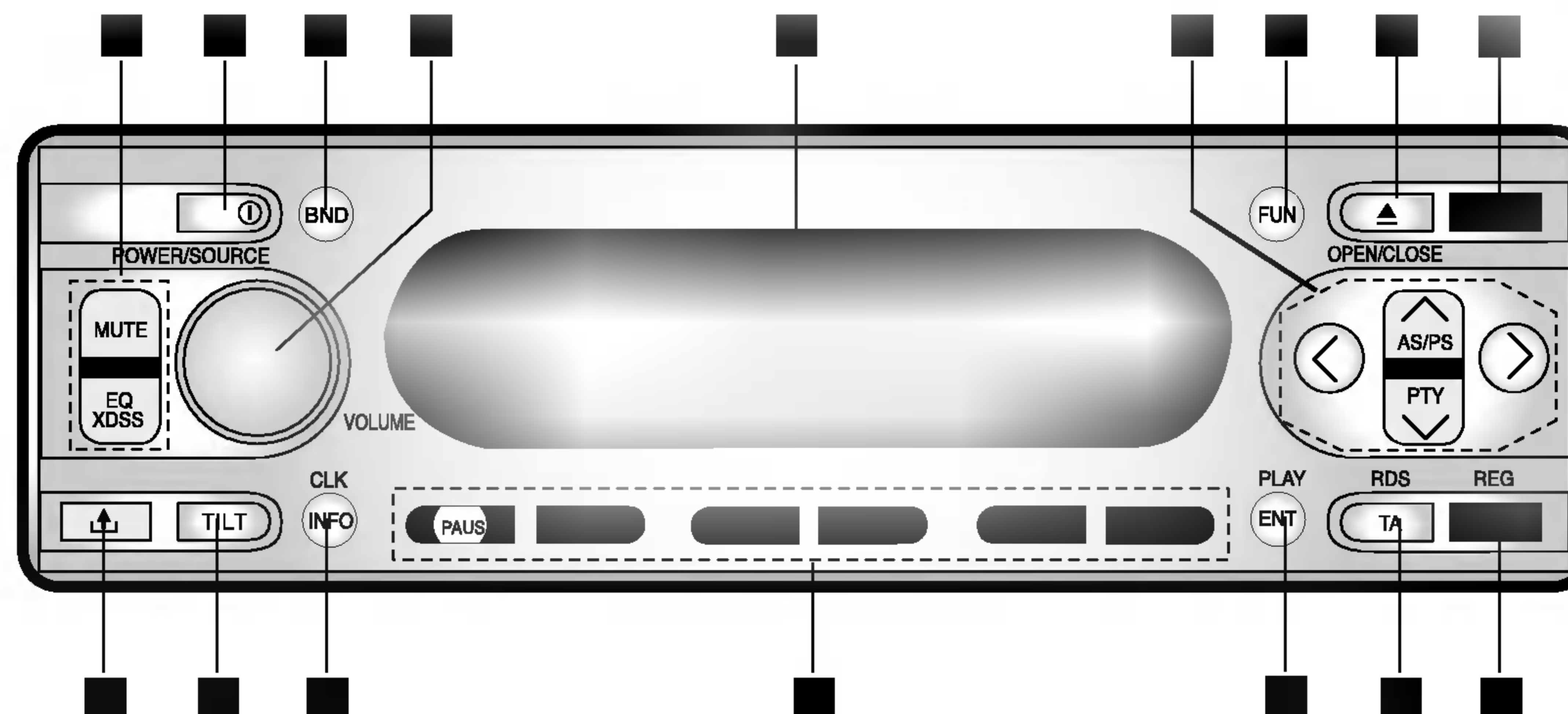
3. Put the front panel into the protective case provided for safe keeping.



Attaching the front panel

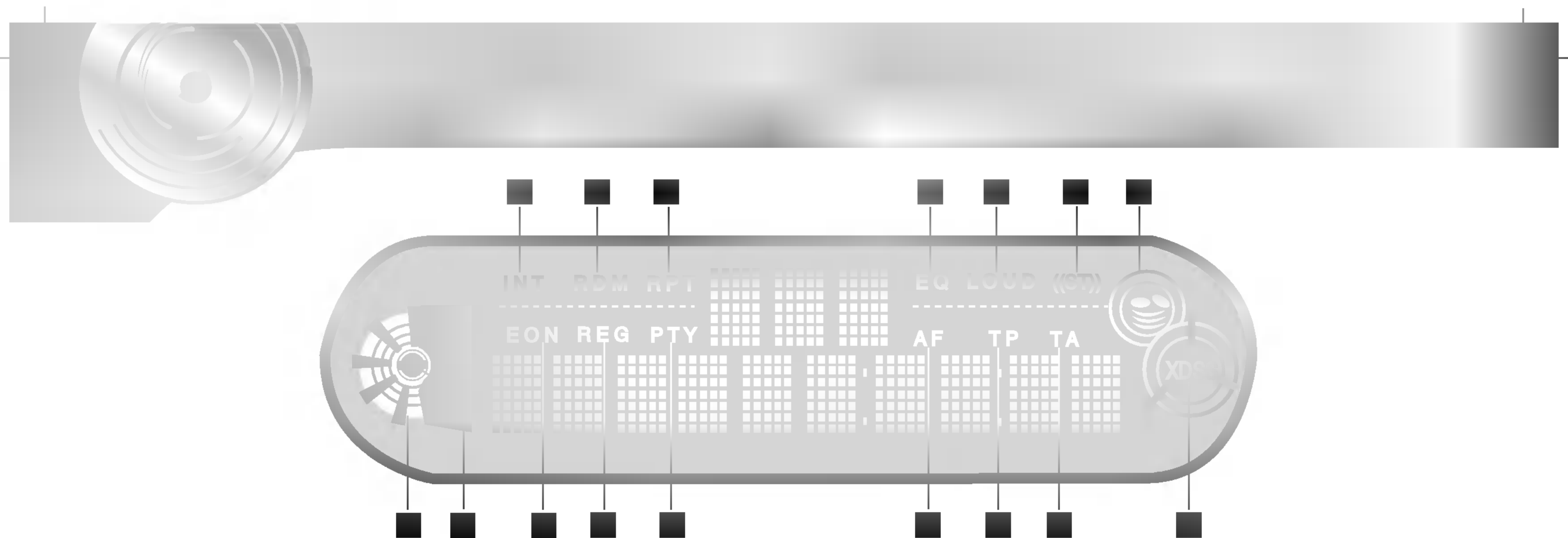
Align the right side of the panel with the stopper, and then push the left side of the panel into the unit until it clicks.



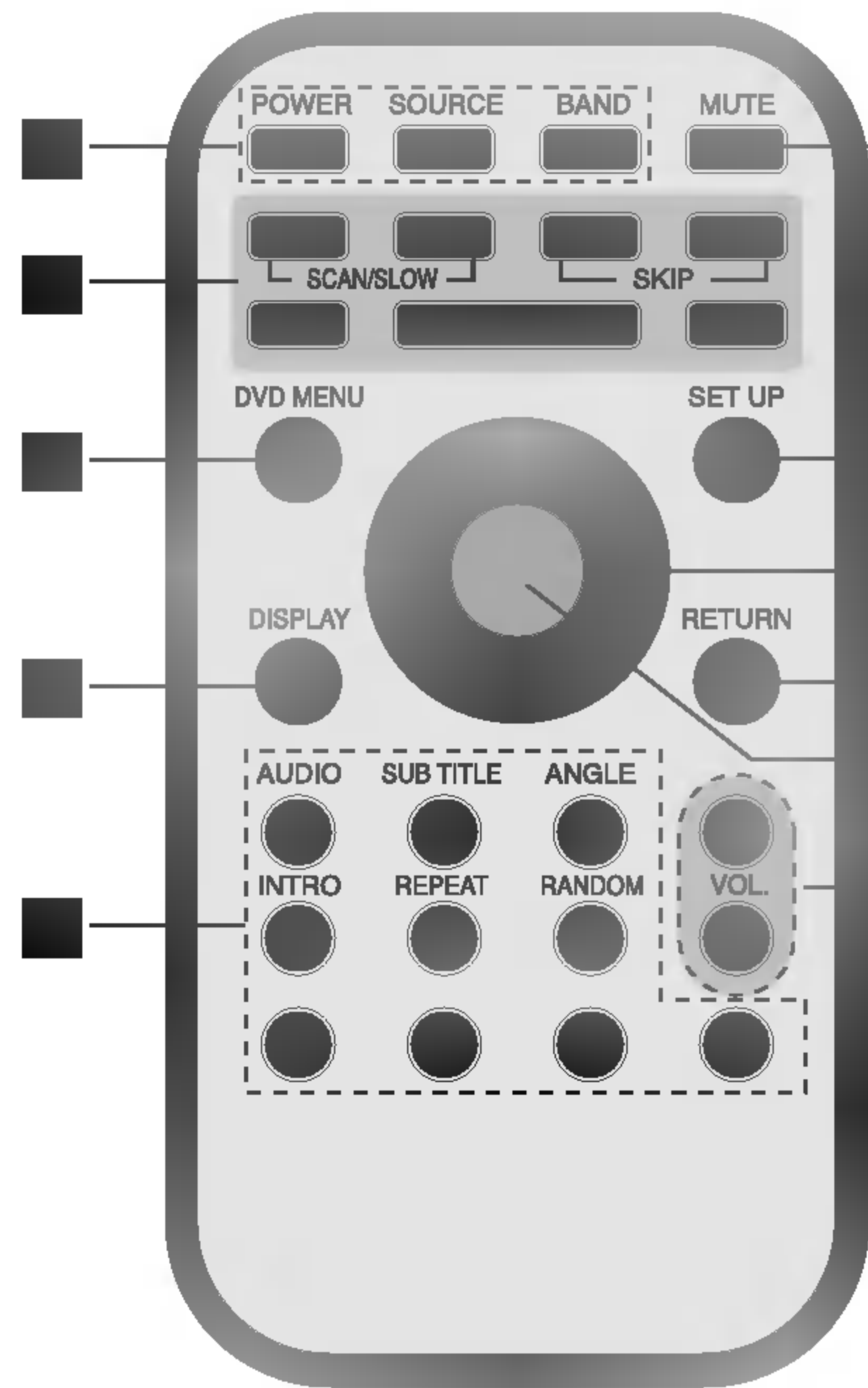


- • MUTE button
- • EQ/XDSS button
- POWER/SOURCE button
- BAND (BND) button
- VOLUME KNOB/ Sound mode selection
- DISPLAY WINDOW
- AS/PS (Auto Store/Preset Scan), PTY button,
⊙/⊙/⊗/⊗ (left/right/up/down) buttons
- FUNCTION (FUN) button
- ▲ OPEN/CLOSE button
- REMOTE SENSOR
- RELEASE (⏏) button
- TILT button
- CLOCK/INFORMATION (CLK/INFO) button
- • PRESET (1-6) buttons
- • PAUSE button/ TV System (Auto, NTSC, or PAL) Selection
- • INTRO (INT) button
- • REPEAT (RPT) button
- • RANDOM (RDM) button
- • TRACK SKIP (-5) button/ Setup Menu Selection
- • TRACK SKIP (+5) button/ Disc Menu Selection
- PLAY/ENTER (ENT) button
- RDS/TA button/ RDS User Option Selection
- AF/REG button





- | | |
|---|--|
| ■ INTRO PLAY indicator | ■ REG (REGION) indicator |
| ■ RANDOM PLAY indicator | ■ PTY (Program type) indicator |
| ■ REPEAT PLAY indicator | ■ AF(Alternative Frequencies) indicator |
| ■ EQUALIZER indicator | ■ TP (Traffic Program) indicator |
| ■ LOUDNESS indicator | ■ TA (Traffic Announcement) indicator |
| ■ STEREO indicator | ■ XDS (Extreme Dynamic Sound System) indicator |
| ■ CDC (CD Changer) CONNECTION indicator | |
| ■ DISC OPERATING STATUS indicator | |
| ■ DISC IN indicator | |
| ■ EON indicator | |



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

- **DVD MENU**
Accesses menu on a DVD disc.
- **DISPLAY**
Accesses On-Screen display.
- **• 0-9 number buttons**
- Selects numbered items in a menu.
- Selects a stored radio station frequency (1-6).
- **• AUDIO**
Selects an audio language (DVD).
- **• SUBTITLE**
Selects a subtitle language. (DVD)
- **• ANGLE**
Selects a DVD camera angle if available
- **• INTRO**
Plays the first 10 seconds of all track. (Audio CD)
- **• REPEAT**
Repeat chapter, track, title.
- **• RANDOM**
Plays tracks in random order. (Audio CD, MP3, WMA)

- **MUTE**
Press to mute the sound from the speaker.
- **SET UP**
Accesses or removes setup menu.
- **◀/▶/▲/▼ (left/right/up/down)**
Selects an item in the menu.
- **RETURN**
Displays the disc menu with PBC.
- **ENTER**
Confirms menu selection.
- **VOLUME** (▼/▲)

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 in to the installation sleeve.

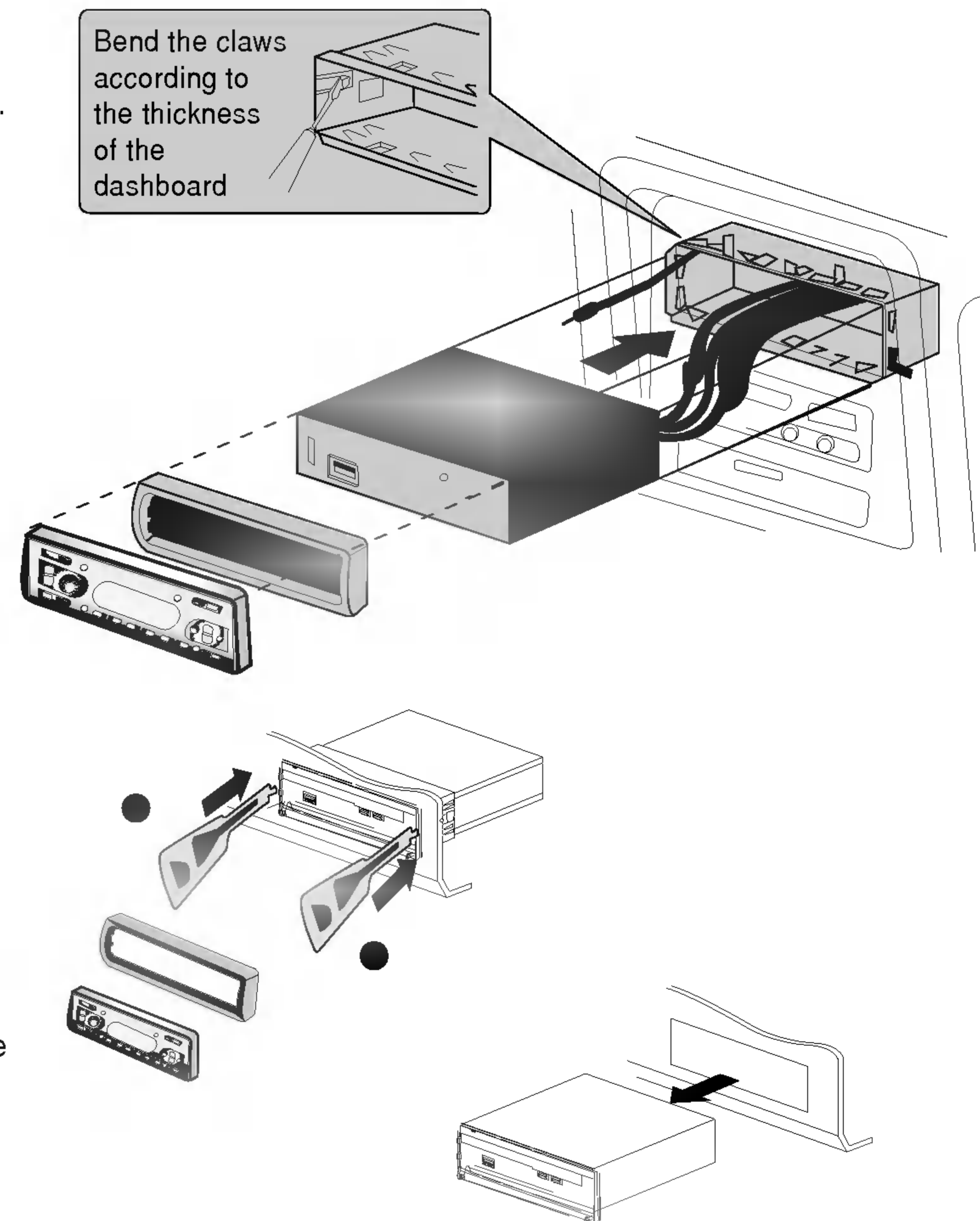
Removing existing receiver unit

If there is already an installation sleeve for the receiver unit in the dashboard, it must be removed.

When removing the unit from the installation sleeve

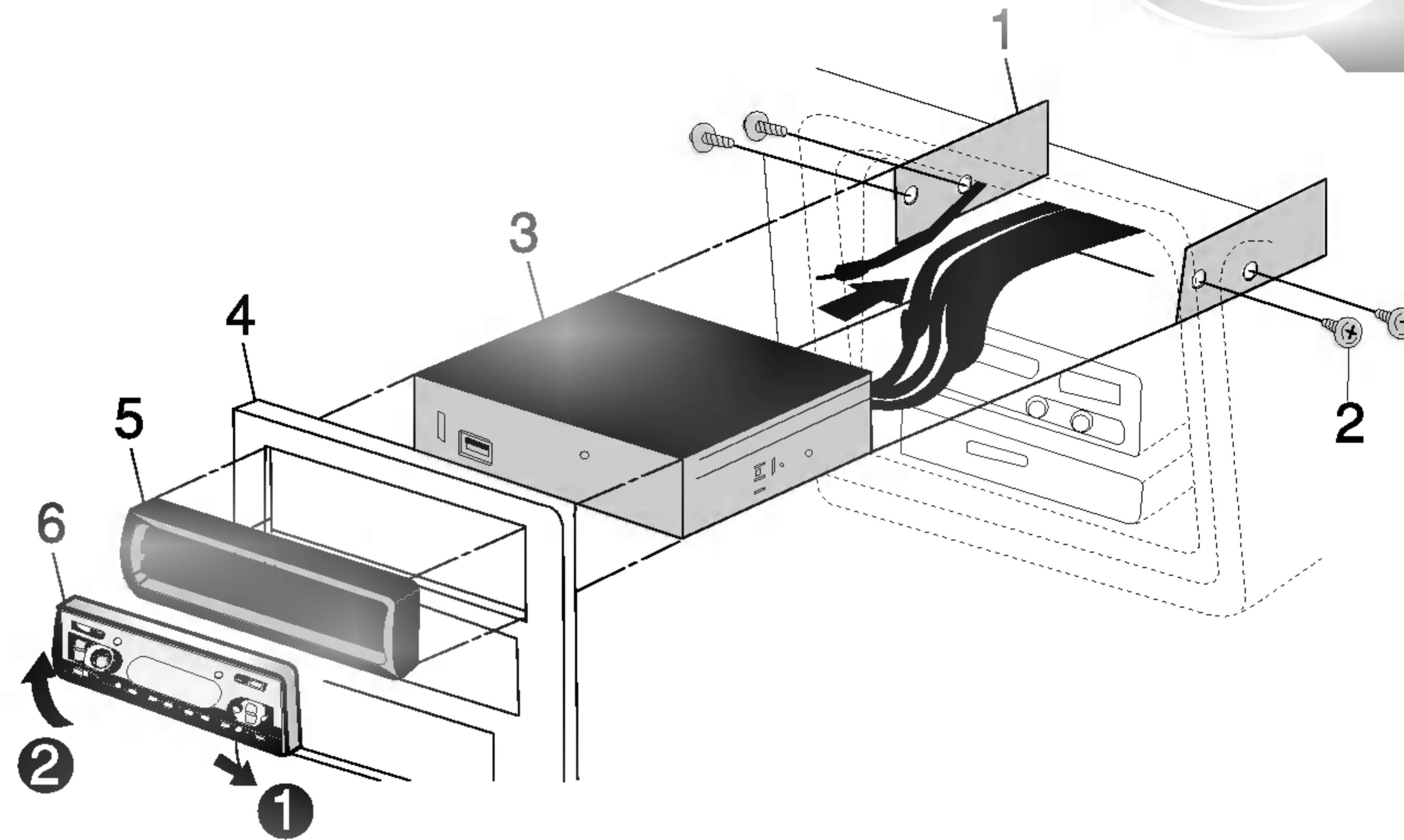
If you need to remove the unit from the installation sleeve, proceed as follows.

1. Remove the rear supporter from the unit.
2. Remove the front panel and trim ring from the unit.
3. Insert the lever ● into the hole on one side of the unit. Do the same operation on the other side and pull out the unit from the installation sleeve.



ISO-DIN Installation

1. Slide the unit into ISO-DIN frame.
2. Install screws removed from old unit.
3. Slide the unit and frame into dash opening.
4. Install dash panel or adapter plate.
5. Install trim ring to the unit.
The notch on trim ring must be positioned at the bottom.
6. Install faceplate by fitting right edge into position then pushing left edge closed.

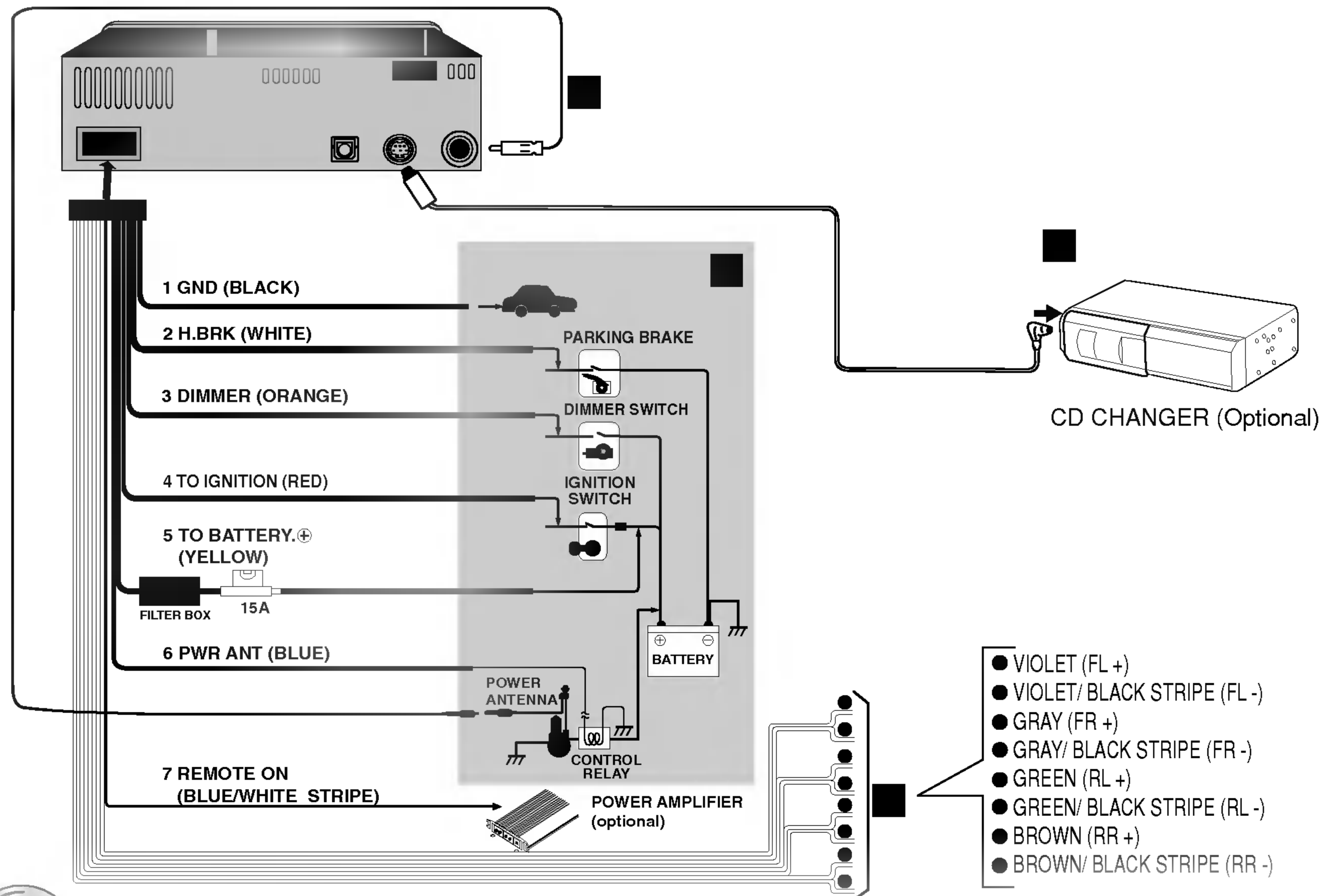


PREPARATION



Connecting to Car

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



Connecting to Car

A From antenna

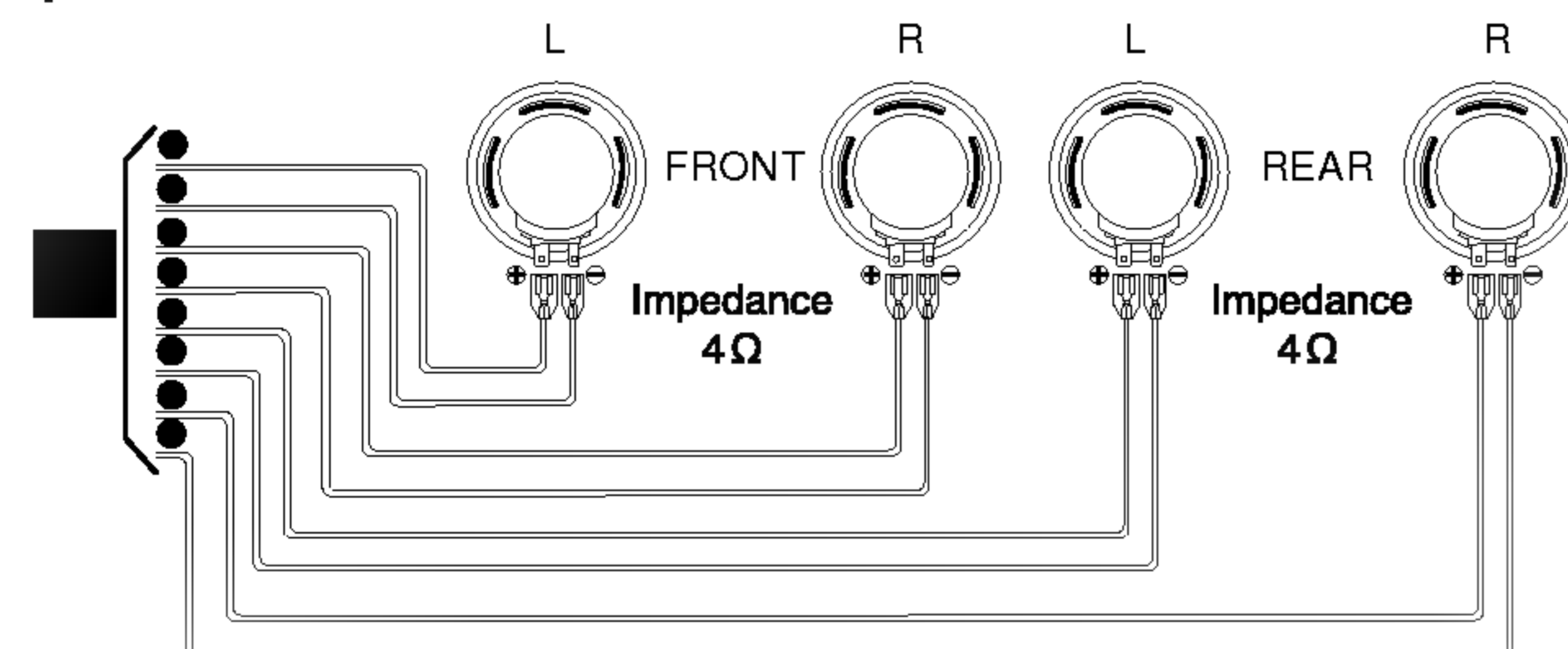
B To the wiring of vehicle Colors of leads

- 1 **BLACK** : This lead is for connection to the Ground.
- 2 **WHITE** : This lead is for connection to the parking brake.
- 3 **ORANGE** : This lead is for connection to the Dimmer line
- 4 **RED** : This lead is for connection to the terminal from which the power is supplied when the ignition switch is set to ACC.
- 5 **YELLOW** : This lead is for connection to the Battery (back-up) terminal from which the power is always supplied.
- 6 **BLUE** : This lead is for connection to the power antenna.
- 7 **BLUE/WHITE STRIPE** : This lead is for connection to the amplifier remote on.

C Connect the CD changer

- Your car receiver works as control unit for a CD changer which you can buy, if not yet done, later.
- The suitable cord shown on the scheme will be provided together with the CD changer.

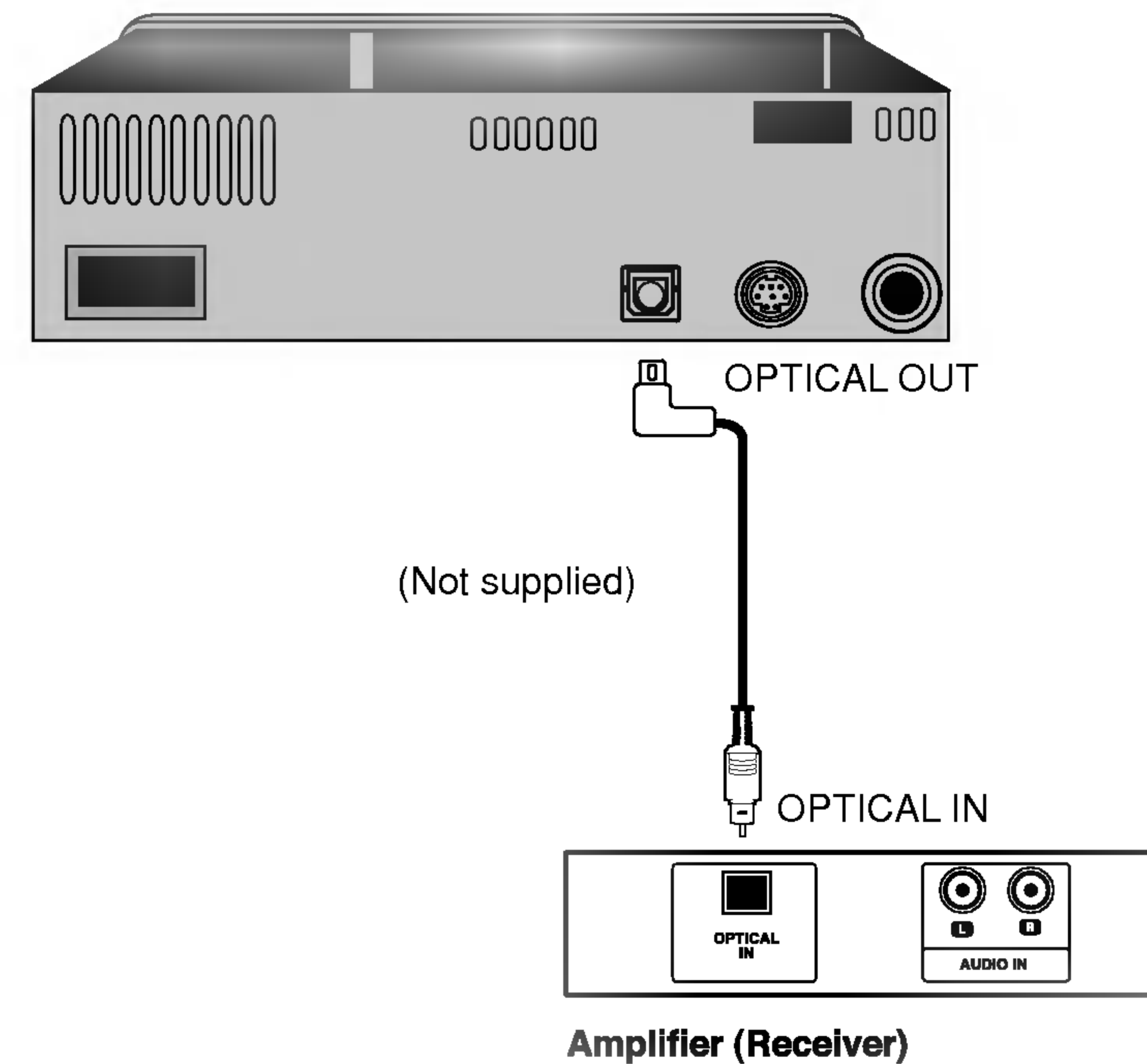
D Speaker Connections



Connecting to Optional Equipment

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)

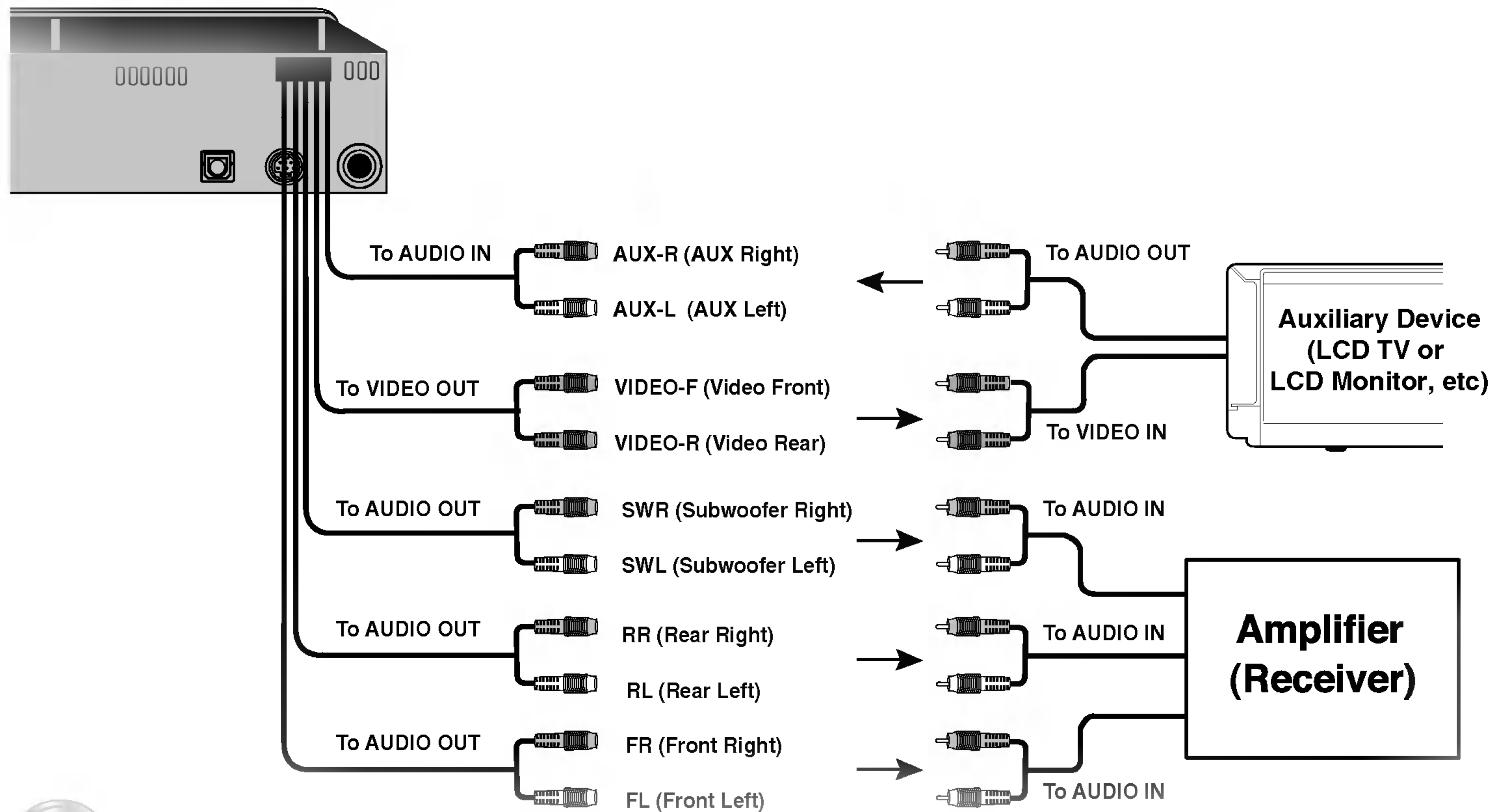
Connect the OPTICAL OUT connector of this unit to the corresponding in jack on your Amplifier or Receiver.



PREPARATION

Connecting to Auxiliary Equipment

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



Turning the unit on

Press **POWER/SOURCE** or any other button on the front panel or **POWER** on the remote control to turn the unit on.

Turning the unit off

- Press **POWER/SOURCE** on the front panel for more than 1 second to turn the unit off.
- Press **POWER** on the remote control to turn the unit off.

Selecting a source

You can select a source you want to listen to.

Press **POWER/SOURCE** on the front panel or **SOURCE** on the remote control to select a source.

Press **POWER/SOURCE** or **SOURCE** repeatedly to switch between the following sources:

Tuner → DVD/CD → CD Changer (optional) → AUX In → Tuner...

NOTES

- When you turn off, the unit is memorized automatically the current volume level before you turn off. Whenever you turn on the unit, it will operate at the memorized volume level.
- When the front panel is opened, it is closed automatically after about 20 seconds and beep sounds.

Adjusting the volume

Use **VOLUME** to adjust the sound level.

Rotate **VOLUME KNOB** on the front panel to increase or decrease the volume.

Press **VOLUME** (⏮/⏭) on the remote control to increase or decrease the volume.

Adjusting the angle of the front panel

Press **TILT** repeatedly on the front panel.

- The angle of the front panel can be adjusted up to 3 steps.

Checking the clock

You can see the clock pressing **CLK/INFO** on the front panel.

Even when the unit is off, if you press **CLK/INFO** on the front panel the clock appears in the display window. If you press **CLK/INFO** again, the clock disappears in the display window.

NOTE

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



FUNCTION (FUN) button

1. Select a mode you want pressing **FUN** repeatedly on the front panel during operating.
 - Beep mode → Woofer mode → Colour mode → Contrast mode → Display mode → Beep mode...
2. Select the function you want pressing the **◂(left)/ ◃(right)** on the front panel or **◀(left) / ▶(right)** on the remote control within 5 seconds.

Beep mode

- “Beep 2nd” indicator : When the button with long key function is pressed for more than 1 seconds, beep sounds.
- “Beep All” indicator : When any button is pressed, beep sounds.
- “Beep Off” indicator : When any button is pressed, beep doesn't sound.

Woofer mode

- “FREQ 120Hz” indicator : Setting to 120Hz the cut-off frequency of woofer speaker.
- “FREQ 80Hz” indicator : Setting to 80Hz the cut-off frequency of woofer speaker.

Colour mode

Colour mode	Display window colour
Color WH	White
Color BL	Blue
Color GR	Green
Color SB	Sky blue
Color RD	Red
Color VL	Violet
Color YL	Yellow

Contrast mode

This can adjust the shown letter/shape brightly or darkly in the display window. (1~11steps)

Display mode

According to the current Source, confirms the information.

- “DSPL All” indicator :
The whole information of title, artist, album or CD TEXT etc scroll from right to left in the display window during playing an MP3,WMA or etc.
- “DSPL NORM” indicator :
Each time is pressed **CLK/INFO** button, the clock and information appear in order in the display window.



SOUND Adjustment

MUTE

1. Press **MUTE** to cut the sound.
 - "Mute" indicator will be shown in the display window.
2. To cancel it press **MUTE** again.

Using the EQ (equalizer)

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

There are five stored equalizer curves which you can easily recall at any time.

Here is a list of the equalizer curves:

- Pop : Reproduces the acoustics of pop music.
- Classic : Reproduces the acoustics of orchestral music.
- Rock : Reproduces the acoustics of rock music.
- Jazz : Reproduces the acoustics of jazz music.
- Vocal : Reproduces the acoustics of vocal music.

Press **EQ/XDSS** to select the equalizer on the unit.

Press EQ repeatedly to select among the following equalizer.

Pop → Classic → Rock → Jazz → Vocal → Off → Pop ...

XDSS (Extreme Dynamic Sound System)

You can reinforce the bass and create a more powerful sound.

Press **EQ/XDSS** for more than about 2 seconds.

"XDSS On" appears in the display window.

To cancel it, Press **EQ/XDSS** for more than about 2 seconds again.

SOUND MODE

1. Select the sound mode you want to adjust pressing **VOLUME KNOB** repeatedly on the front panel.
 - When the equalizer is selected to "Off" the EQ mode, the mode indicator lights up in the following order in the display window.
VOL → BAS → TRB → BAL → FAD → LFE → SPK → VOL...
 - When the equalizer is selected to the EQ mode, the mode indicator lights up in the following order in the display window.
VOL → BAL → FAD → LFE → SPK → VOL...
2. Turn left or right **VOLUME KNOB** to adjust the sound quality within 5 seconds.

TIP : The BASS and TREBLE mode is not selected on the "XDSS On" mode.

Sound mode	Turn left.	Turn right.
VOL (Volume)	Decrease the volume level.	Increase the volume level.
BAS (Bass)	Decrease the bass level.	Increase the bass level.
TRB (Treble)	Decrease the treble level.	Increase the treble level.
BAL (Balance)	Decrease the level of the right speaker(s).	Decrease the level of the left speaker(s).
FAD (Fader)	Decrease the level of the rear speakers.	Decrease the level of the front speakers.
LFE (Woofer volume)	Decrease the level of the woofer volume.	Increase the level of the woofer volume.
SPK (Loudness)	Loud off	Loud on



Tuning the radio stations

1. Press **POWER (POWER/SOURCE)** on the front panel) button to turn the unit on.
 - When you select a source the unit is turned on.
2. Press **SOURCE (POWER/SOURCE)** on the front panel) button to select the tuner.
 - Press **SOURCE** button until you see "Tuner" displayed.
3. Press **BAND (BND)** on the front panel) button to select a band.
 - Press **BAND** button until the desired band is displayed, FM1, FM2, FM3, MW(AM).
4. To perform seek tuning, press the **⏪(left)/ ⏩(right)** on the front panel or **SKIP ⏪/⏩** on the remote control with quick presses.
 - The "Search" is shown in the display window.
The tuner will scan the frequencies until a broadcast strong enough for good reception is found.
 - You can cancel seek tuning by pressing either the **⏪(left)/ ⏩(right)** or **SKIP ⏪/⏩** with quick presses.
5. To perform manual tuning, press and hold the **⏪(left)/ ⏩(right)** on the front panel for 1 second and release until you see "Manual" displayed. And then press the **⏪(left)/ ⏩(right)** on the front panel or **SCAN/SLOW ⏪/⏩** on the remote control with quick presses.
 - The frequencies move up or down step by step.

NOTES

- During manual tuning, if the "Auto" indicator is displayed and disappeared for about 0.5 second, it will be entered to the seek tuning mode.
- When the selected frequency is being broadcast in stereo, "((ST))" indicator will light.

Storing and recalling broadcast frequencies

If you press any of the **PRESET (1-6)** buttons you can easily store up to six broadcast frequencies for later recall with the touch of a button.

1. When you find a frequency that you want to store press the **PRESET (1-6)** buttons and hold until the preset number appears in the display window.
 - 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.
The next time you press the same PRESET (1-6) buttons the radio station frequency is recalled from memory.

NOTES

- Up to 18 FM stations, 6 for each of three FM bands and 6 MW(AM) stations can be stored in memory.
- When a station is stored on the preset station button which another frequency of the same band has already been stored, the previous preset station is erased automatically.
- If the unit is received the Non-RDS broadcast, set to off the AF (Alternative Frequency) pressing **AF/REG** button on the front panel.

Auto Search Memory

This function lets you automatically store the six strongest broadcast frequencies under PRESET (1-6) buttons.

1. Press **SOURCE (POWER/SOURCE)** on the front panel button to select the tuner.
2. Press **AS/PS** button on the front panel for about 1 second.
The 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.

NOTES

- The presetting is not performed if there is no station to be tuned in.
- When the automatic presetting is performed, the previous preset stations are automatically erased.
- To stop the automatic presetting, press AS/PS button again or press any of the **PRESET (1-6)** buttons.

To scan the preset stations

Press **AS/PS** button briefly.
Each preset station is tuned in for about 7 seconds in order.
To stop the scanning, press **AS/PS** button again or any of the **PRESET (1-6)** buttons.

To tune in the preset stations

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



RDS (Radio Data System) Function

RDS (Radio Data System) is a method for sending information signals together with the transmitter signals. Your tuner is capable of translating these signals and putting the information on the display. These codes contain the following information. Program Service Name (PS), A list of program Type (PTY), Traffic Announcement (TA), Clock Time (CT), Radio Text (RT)

RDS Display Options

The RDS system is capable of transmitting a wide variety of information in addition to the initial call sign that appears when a station is first tuned. In normal RDS operation the display will indicate the station name, broadcast network or call letters. Pressing **CLK/INFO** on the front panel enables you to cycle through the various data types in the sequence:

(CT → FREQUENCY → PTY → RT → PS)

- **CT** (Time controlled by the channel): Enable the unit to receive the actual time and show it on the display window.
- **PTY** (Program type recognition): The program type is shown on the display window.
- **RT** (Radio text recognition): The radio station's information is displayed on the display window.
- **PS** (Program Service name): The program title is displayed on the display window.

NOTE

Some RDS stations may not choose to include some of these additional features. If the data required for the selected mode is not being transmitted, the Display Window will show a **NO Clock, PTY None, RT None** message.

- **PI** (Program Identification) : contains additional information for regional program operation
- **AF** (Alternative Frequencies for the actual program)
- **TP** (Traffic Program Identification)
- **TA** (Traffic Announcement Identification)
- **EON** (Enhanced Other Networks): Information on other programs to use their services like traffic announcement etc

NOTES

- RDS is only available for FM reception.
- The PS function allows station names to be displayed in clear letters.
- Network Tracking reception uses the PI and AF codes. The PI code identifies the country, area and broadcast system. AF lists up which reception frequencies at the area are broadcasting the same program and automatically changes to the best reception quality offering frequency without the need to interrupt the program by a seek function.
- Traffic programmes and announcements can be automatically received using the TP/TA features.
- EON-TA: With activated EON function traffic announcements can be heard when listening programs which do not broadcast such information by themselves. To do this, the tuner changes to another program only for announcements, returning automatically afterwards to the previous listened program.
- PTY program type selection enables to select the contents of programs who are supporting this service.

RDS (Radio Data System) Function

STATION NAME DISPLAY

The station name is displayed automatically when a RDS station is received.

AF (Alternative Frequency)/ REG (Regional) Function

- The list of alternative frequencies give information on the various transmitters broadcasting the same program in the same or adjacent reception areas, and enable receivers equipped with a memory to store the list, to reduce the time for switching to another transmitter.
 - When the REG function is enabled, you can only hear regional programmes.
 - When the REG function is enabled, you can also listen to various programmes by means of the alternative frequencies.
 - The regional function covers restricted areas of transmission, hence it is advisable to use it only for short distances.
1. Press **AF/REG** on the front panel to switch on or off the AF function (Network-Tracking).
“AF” indicator appears in the display window.
 2. Press **AF/REG** on the front panel repeatedly for more than 2 seconds in the AF mode to switch on or off the REG function (Regional Network-Tracking).
“REG On” or “REG Off” indicator appears in the display window.

- Mode 1 (AF: On/REG: On):

Network-Tracking is activated. Regional mode is engaged (AF function changes between stations broadcasting the same program at all times). Regional mode shall be selected only in case of driving in certain local areas.

- Mode 2 (AF: On/REG: Off):

Network-Tracking is activated. AF function changes between stations belonging to the broadcast network being received.

- Mode 3 (AF: Off):

Network-Tracking is deactivated. Only station name will be displayed. In case of poor reception no alternative station can be used.

Network-Tracking reception

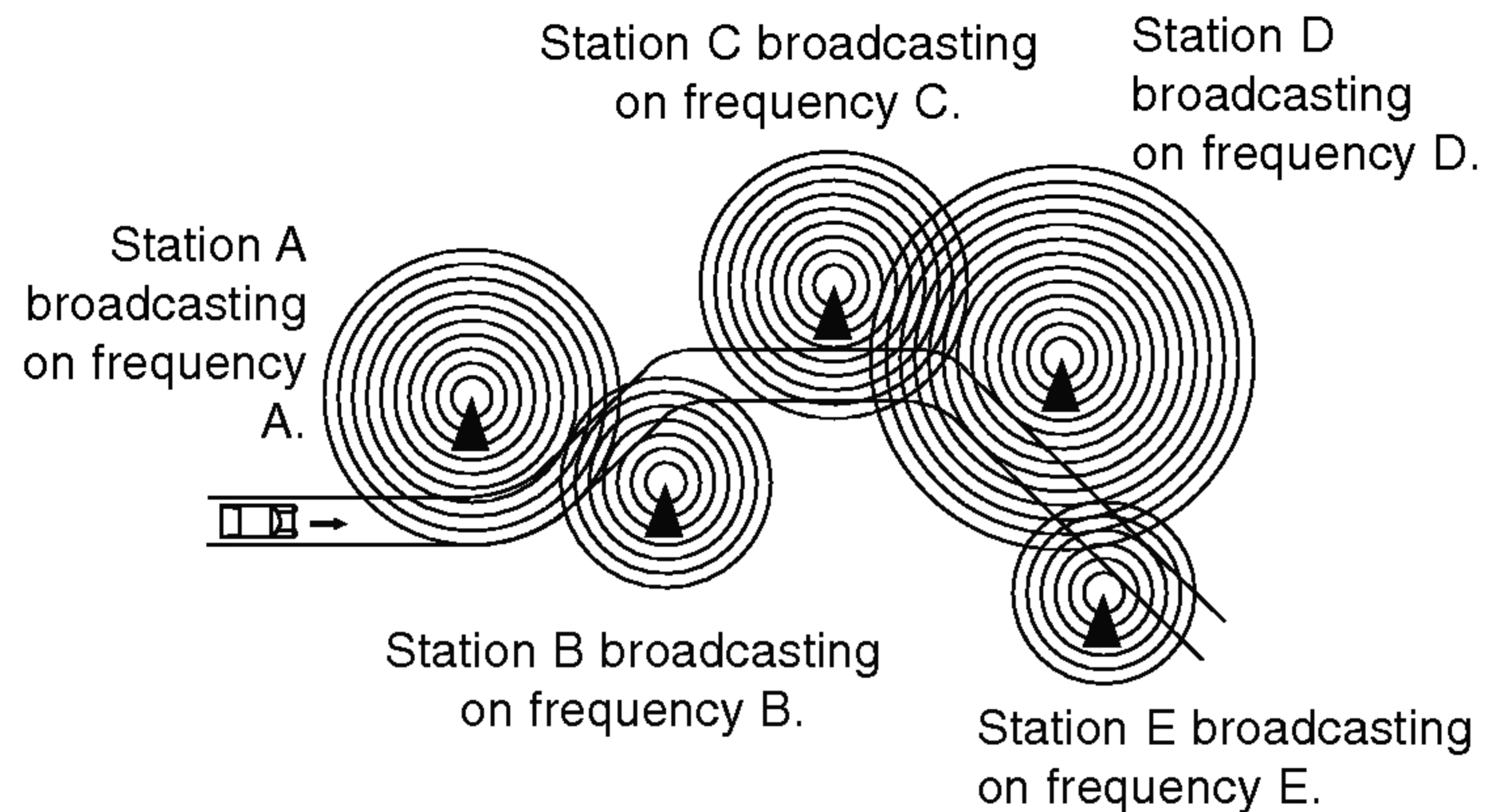
When you are driving in an area where RDS data is broadcasted by stations in a network, following procedures are operated in Modes 1 and 2 if a RDS station is tuned:

A flashing of the AF indicator in the LCD display shows, the processor is still collecting the complete set of RDS data of this program. Whenever the flashing stops, all data are complete and the RDS functions can be used as far as they are supported by the program.

RDS (Radio Data System) Function

If AF functions are activated:

When the reception quality drops, the tuner automatically changes to another station in the network, broadcasting a better reception quality, using the PI and AF codes. This means: wherever you drive, you can continue to listen to the same programme without interruptions. (Refer to figure.)



NOTE

The same program can be received on different frequencies.

PI SEEK procedure:

If the reception quality drops too much without finding a better quality alternative frequency from the AF list, after a while the PI SEEK function starts (Display: 'Seek-PI'). The tuner is searching a station of the same program not regarding the AF list, which has the same PI code.

If such station is not available even after PI SEEK has checked the whole FM band, PI SEEK stops and the usual SEEK function starts (Display: "Search") because the program is not longer receivable in this reception area.

NOTES

- The AF function may not operate correctly in areas where no alternative station can be received.
- In reception borderland of a program chain normally no alternative stations can be found. In this case also a high advanced RDS function cannot help anymore, another program – of the driving area must be selected.
- Especially in regional mode such reception borderland can be often reached. Because of possible reduced reception quality, the regional function shall be used only for driving short distances.
- If the RDS station does not support AF data list or if the tuner cannot read AF data from reception, no network tracking is possible. Switching to alternative frequencies does not work.

RDS data for preset buttons

When a preset button is pressed, if the station with that frequency is received with a sufficient quality, the receiver will tune to that frequency. When the reception quality is not sufficient for good reception, referring to its AF list, the receiver will change to a station of the same program which is broadcasting the best reception quality (a station broadcasting the same program contents may not be received when Mode 2 (REG Off) is selected and a regional program is selected).

If a sufficient quality station cannot be found in the AF list, PI-Seek tuning starts automatically.

RDS (Radio Data System) Function

PTY (Program Type) FUNCTION

To select a certain program type out of the reception band, following procedure can be operated.

1. Press **PTY** repeatedly on the front panel on the FM mode.
Music Group → Speech Group → Frequency → Music Group...
2. Press **PRESET (1-6) buttons** on the front panel in the PTY mode.

NOTE

As long as there was no RDS data reception, the LCD display shows the actual reception frequency, After PS data was read from RDS signal, steadily the station name (PS) is displayed unless the AF function decides to receive another frequency. In that case, for 3 sec. The new reception frequency will be shown automatically.

Music Group

Preset 1 button	Pop M Rock M	Popular Music Rock Music
Preset 2 button	Easy M Light M	Easy Listening Music Classical Music
Preset 3 button	Classics Other M	Serious Classical Music Other Music
Preset 4 button	Jazz Country	Jazz Music Country Music
Preset 5 button	Nation M Oldies	National Music Oldies Music
Preset 6 button	Folk M	Folk Music

Speech Group

Preset 1 button	News Affairs INFO	News Current Affairs Information
Preset 2 button	Sport Educate Drama	Sports Educational Drama
Preset 3 button	Culture Science Varied	Culture Science Varied Speech Programme
Preset 4 button	Weather Finance Children	Weather Information Financial Programme Children Programme
Preset 5 button	Social Religion Phone In	Social Affairs Programme Religious Broadcasts Phone-In Programme
Preset 6 button	Travel Leisure Document	Travel and Touring Leisure and Hobby Documentary Programme

OPERATION

TA (Traffic Announcement Identification) Function

This is an On/Off switching signal to indicate when a traffic announcement is on air.

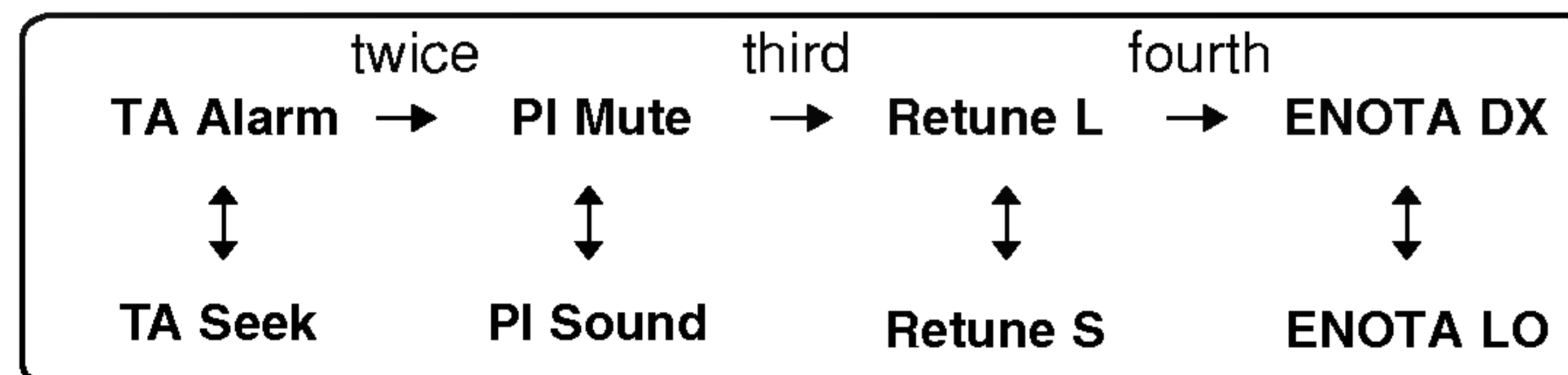
Press **RDS/TA** on the front panel to switch on or off the TA function.

If there is no TA, the "No TP-TA" appears in the display window.

RDS (Radio Data System) Function

RDS User Option Mode Adjustment

1. Press the **RDS/TA** button for more than 2 seconds, it is activated selecting mode.
2. After, pressing **RDS/TA** button one by one activated as selecting each mode.
3. Press the **◂(left)/ ◃(right)** on the front panel or **◀(left) / ▶(right)** on the remote control to select the indicator.



4. Press the **ENTER** or **ENT** to exit the RDS user option mode.

- TA Seek mode

When newly tuned station does not receive TP information for 5 sec, the radio retunes to next station which has not the same station(PI) as the last station, but has the TP information.

When TP information gets lost at the current station for retune time which is set by "Retune Short" (30 sec) or "Retune Long" (90 sec), the radio start to retune to next same PI station. When same PI station does not catch in 1 cyclic search, the radio retunes to next station with TP information.

It must be noted that in TA Seek mode, the current station can be changed to the completely different station because the unit searches TP station when the field(signal) strength of the current station is very weak, or the current station has no "TP" signal. (The higher priority is TP rather than PI.)

- TA Alarm mode

When this mode is selected, any automatic retune mode is not activated. Only double beep sound (ALARM) is out-put. So, in this mode, unit keeps the current station anyhow. (The higher priority is PI rather than TP)

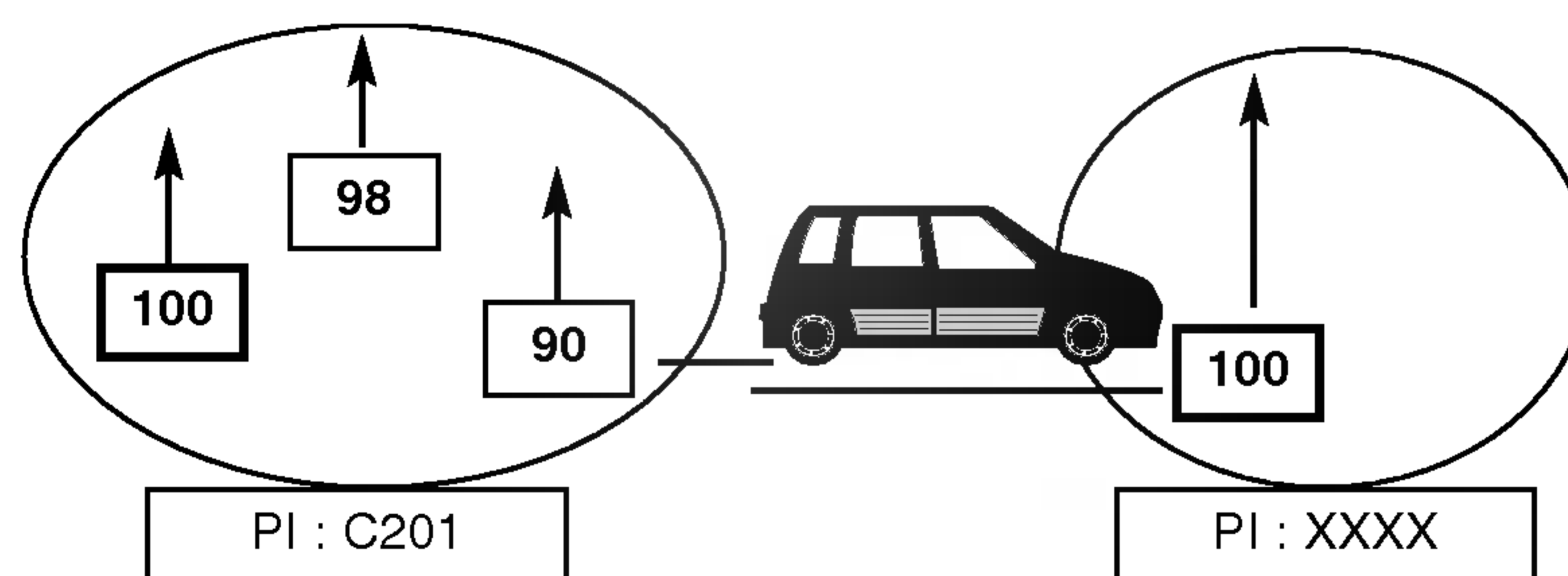
When newly tuned station does not have TP information for 5 sec, beeps come out. When TP information gets lost at the current station for retune time. The beep sound is out-putted. When newly tuned station has not RDS signal, "PI Seek" is suppressed somewhat.

RDS (Radio Data System) Function

- PI Sound or PI Mute mode

While AF switching is implemented in C201 station, AF can switch to 100MHz, which is non genuine AF (where, Different PI with same AF) in short "DIP".

If a car cruises that critical area back and forth, an oscillation phenomenon can be occurred, because the different PI code can be received from 100MHz with "XXX" PI. This unit has special procedure to reduce even this kind of unavoidable situation however there is a limit to be escaped from this serious case perfectly. In that serious case, 2 mode is selectable as follows.



- PI Sound mode :

When above different PI sound (DIP) is heard once in a while, the DIP's sound will be heard for less than 1 second.

- PI Mute mode :

Under above same situation, a mute sound will be heard for less than 1 second.

- Retune L, Retune S mode

The initial time of automatic TA search or PI Search mode is selected. When PI information is not caught for retune time, the radio start to retune to next same PI station.

When same PI station does not catch 1 cyclic search, the radio goes to last station and wait for 4-5 minute until PI code is received.

- Retune L mode : Selected as 90 seconds.
- Retune S mode : Selected as 30 seconds.

- EONTA LO/EONTA DX selection in EONTA mode

The EONTA mode causes only local and strong stations to be received.

It receives all stations, including distant and weak ones.

It is recommended to set the EONTA mode to the local position to receive local stations with good sound quality.

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 the (up)/ (down) or (up)/ (down) to select an item.
The selected item will be highlighted.
3. Press the (left)/ (right) or (left) / (right) to change the setting.
You can also use the number buttons if appropriate (e.g. inputting the title number). For some functions, press **ENTER** or **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, ENTER or ENT
Chapter Number	Numbers, ENTER or ENT
Time search	Numbers, ENTER or ENT
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, ENTER or ENT
Time search	Numbers, ENTER or ENT
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 pages 31 to 35.

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 the **⊙(right)** or **▶(right)**.

To go back to the previous level:

Press the **⊙(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 the **▲(up)/▼(down)** or **▲(up)/▼(down)** to select the desired option then press the **⊙(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 the **▲(up)/▼(down)** or **▲(up)/▼(down)** to select the second desired option then press the **⊙(right)** or **▶(right)** to move to the third level.
4. Use the **▲(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.

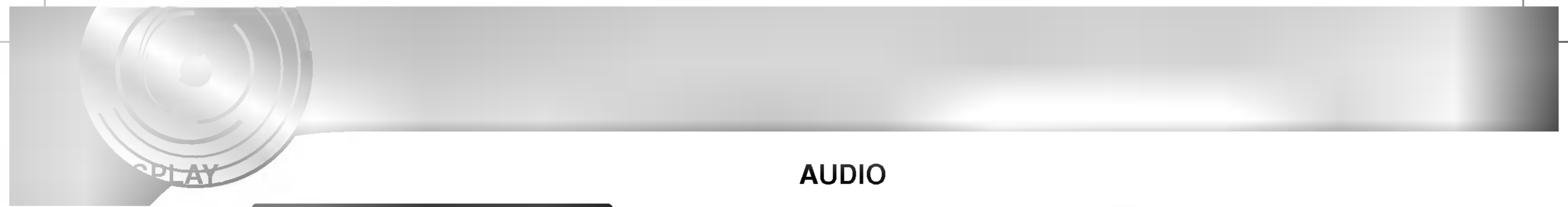
Disc Audio / Subtitle / Menu

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 page 47. 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.



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

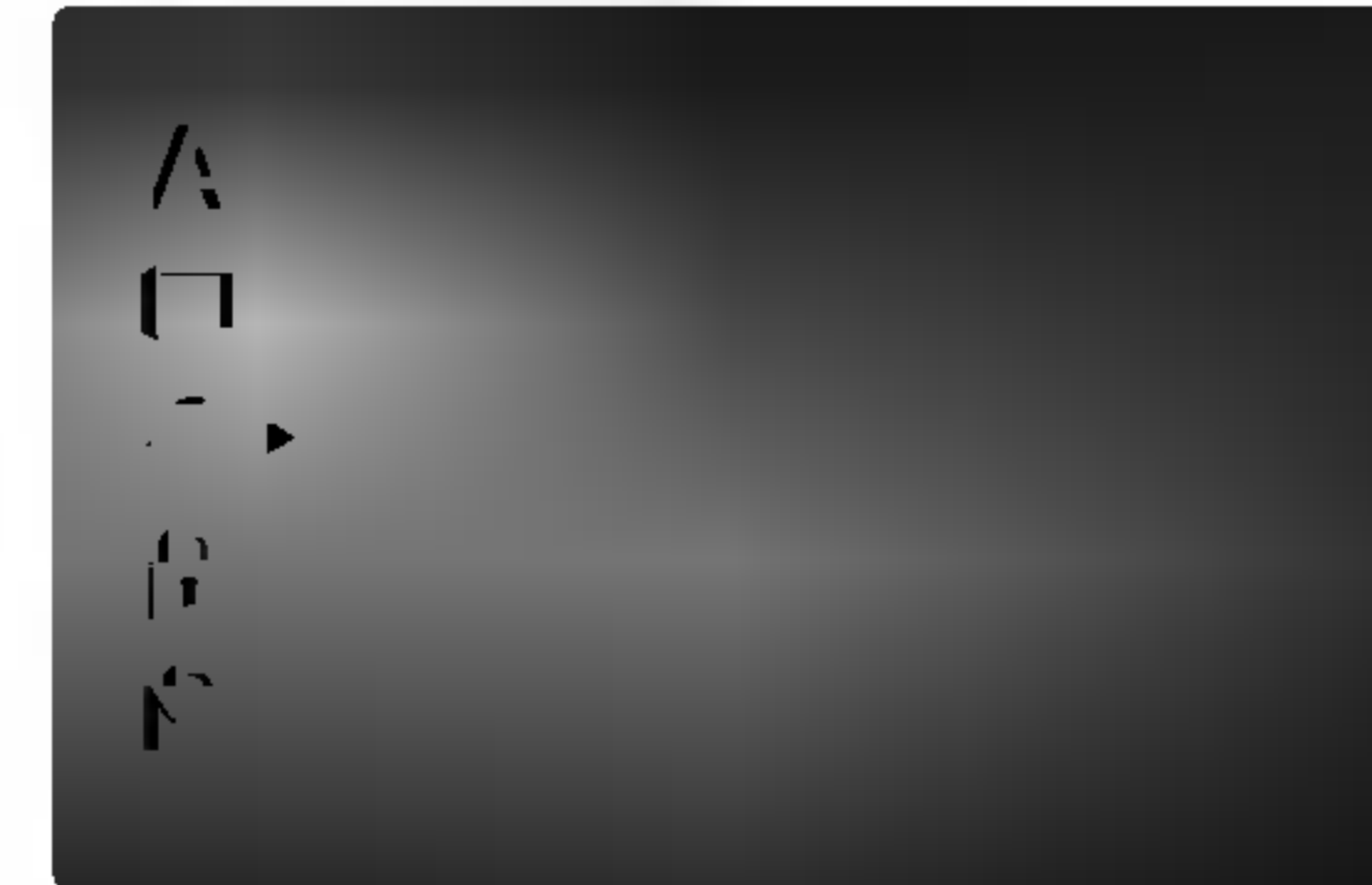
Display Mode setting works only when the TV Type mode is set to "4:3".

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.

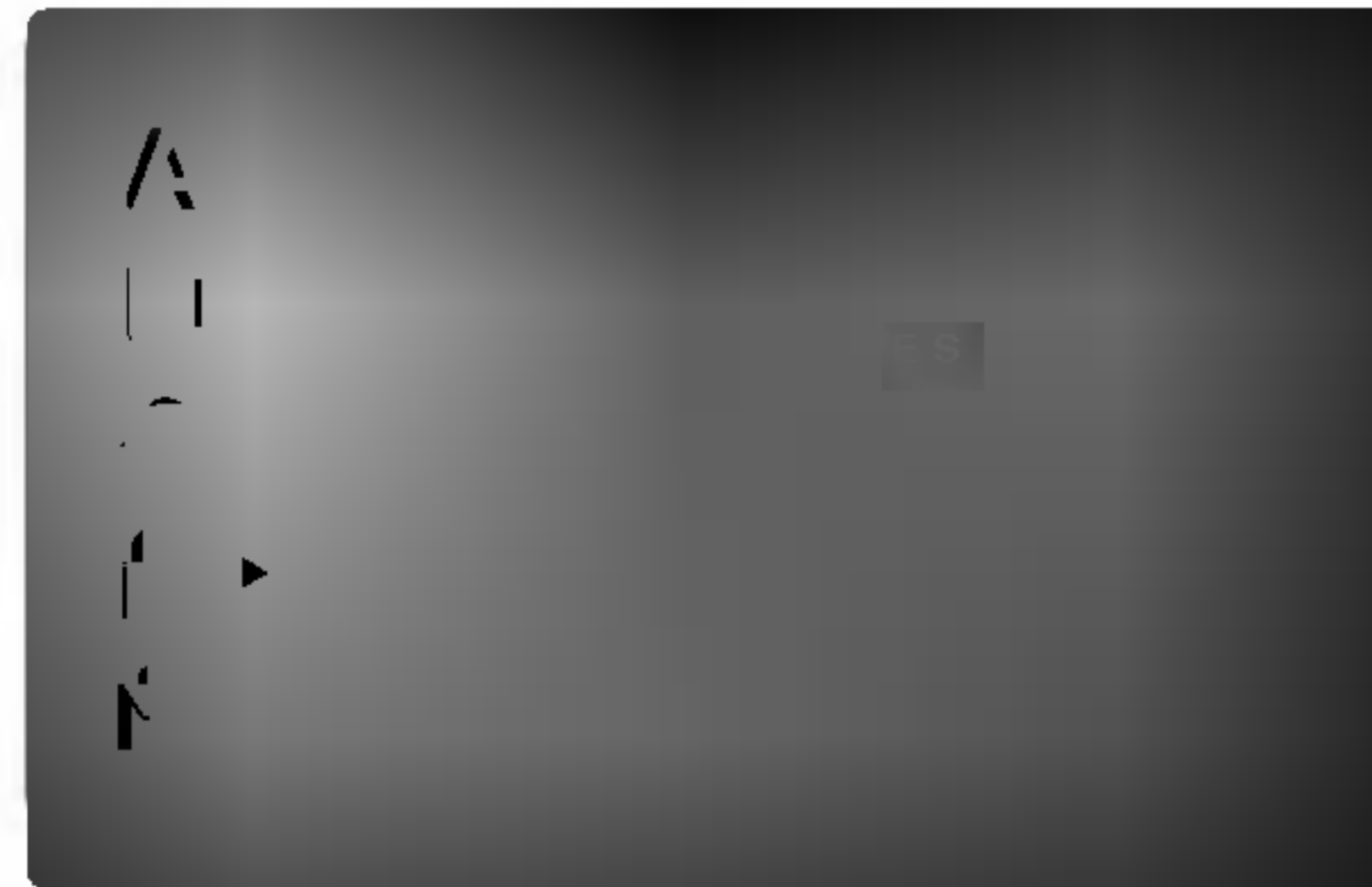
Off (for DTS): If you select "Off", the DTS signal is not output through the DIGITAL OUT jack.

Dynamic Range Control (DRC)

With the DVD format, you can hear a program's soundtrack in the most accurate and realistic presentation possible, 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 the **▶ (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 the **⊙ (left)** or **◀ (left)**.
3. Select a rating from 1 to 8 using the **⬆ (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.

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.

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



Password (Security Code)

You can enter or change password.

1. Select Password on the LOCK menu then press the **⏪ (right)** or **▶ (right)**.
2. Follow step 2 as shown on page 33 (Rating). "Change" or "New" is highlighted.
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 following steps:

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 the **⏪ (right)** or **▶ (right)**.
2. Follow step 2 as shown on page 33 (Rating).
3. Select the first character using the **⏪ (up)/ ⏩ (down)** or **▲ (up)/ ▼ (down)** buttons.
4. Shift the cursor using the **⏪ (right)** or **▶ (right)** button and select the second character using the **⏪ (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 the same way as Audio CDs.

NOTE

The PBC function is only available to play 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 title that has the longest playback time and then play back 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 **▲ OPEN/CLOSE** button 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.

TIP

- **If a menu screen is displayed**
The menu screen may be displayed first after loading a DVD or Video CD 2.0 which offer 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** or **ENT** to start playback.
Press **DVD MENU** to return to the menu screen.





Use the number 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 Off under setup. See page 35.

NOTES



- If parental control is set and the disc is not within the rating settings you must input the password. (See “LOCK” menu on page 33).
- DVDs may have a region code. Your player does not play discs that have a region code different from your player. The region code for this player is 2 (two).

General Features



Pre-Stop

1. Press **STOP** () during playback.
"Pre-Stop" appears in the display window.
2. To return to playback, if you press **PLAY** () on 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





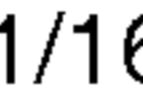

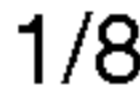


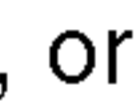


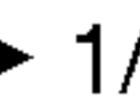



1. Press **PAUSE** () during playback.
2. To return to playback, press **PLAY** ().

Still Picture and Frame-by-Frame playback



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

Slow Motion

1. Press **PAUSE** () during playback.
The unit will now go into 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 **SCAN/SLOW** repeatedly to select the required speed: **SCAN/SLOW** x2, **SCAN/SLOW** x4, **SCAN/SLOW** x16, **SCAN/SLOW** x100 (backward) or **SCAN/SLOW** x2, **SCAN/SLOW** x4, **SCAN/SLOW** x16, **SCAN/SLOW** x100 (forward).
With a Video CD, the Search speed changes: **SCAN/SLOW** x2, **SCAN/SLOW** x4, **SCAN/SLOW** x8, (backward) or **SCAN/SLOW** x2, **SCAN/SLOW** x4, **SCAN/SLOW** 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 **SKIP** briefly during playback to select the next chapter/track or to return to the beginning of the current chapter/track.
- Press **SKIP** 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** or **DOWN** or **UP** or **DOWN** to select the chapter/track icon. Then, input the chapter/track number or use the **LEFT** or **RIGHT** or **LEFT** or **RIGHT**.

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 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 track currently playing, 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 page 35.)

Random





1. Press **RDM** or **RANDOM** during playback.
The unit automatically begins random playback and "Random" appears on the TV screen.
2. To return normal playback, press **RDM** or **RANDOM** 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 35).
- 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 the  (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 number 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** or **ENT** 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.





Special Features

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 number 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) button 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) button 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 the  (up)/  (down) or  (up)/  (down) to select a audio channel ( Stereo ,  Right ,  Left).
2. Select a desired audio channel (Stereo, Right, Left) pressing the the  (left)/  (right) or  (left)/  (right) buttons.

Subtitles

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

NOTE

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

Operation with Audio CD and MP3/WMA Disc



Playing an Audio CD and MP3/WMA Disc



The unit can play MP3/WMA formatted recordings on CD-ROM, CD-R or CD-RW discs.

Before playing MP3/WMA recordings, read the notes on MP3/WMA Recordings on page 43.

- Press **▲ OPEN/CLOSE** on the front panel and then Insert a disc in the unit.
“Reading” appears in the display window, and playback starts automatically.

*Audio CD and MP3/WMA Discs:

Audio CD or MP3/WMA menu appears as below.



Audio CD Menu



MP3/WMA Menu

Pause

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

Moving to another Track

- Press the **⏪(left)/ ⏩(right)**, **◀(left) / ▶(right)** or **SKIP ⏮/⏭** briefly during playback to go to the next track or to return to the beginning of the current track.
- Press the **⏪(left)**, **◀(left)** or **SKIP ⏮** twice briefly to step back to the previous track.

Moving to another Folder

Press **⏶(up)/ ⏷(down)** or **▲(up)/ ▼(down)** briefly during playback to go to the next folder or to step back to the previous folder.

Search

Press and hold the **⏪(left)/ ⏩(right)** on the front panel or **SCAN/SLOW ⏮/⏭** on the remote control for about 1 second during playback and then release at the point you want.

NOTE

There is no sound during the reverse search playback of MP3 or WMA.

Operation with Audio CD and MP3/WMA Disc

Repeat



1. Press **RPT** or **REPEAT** during playback.
Audio CD : The "RPT TRACK" appears on the screen.
MP3/WMA : The "RPT FILE" appears on the TV screen.
2. To cancel Repeat mode, press **RPT** or **REPEAT** again.
Audio CD : The "RPT TRACK" disappears on the screen.
MP3/WMA : The "RPT FILE" disappears on the screen.



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

Random



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

Intro scan

1. Press **INT** or **INTRO** during playback.
The "INT" 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 **INT** or **INTRO** again.
The "INT" disappears on the screen.

CD TEXT/ID 3 TAG

Some discs have certain information encoded on the disc during manufacture. These discs may contain such information as title, artist's name and album name and are called CD TEXT discs.

When playing a disc containing information, you can see the information (Folder name, File name, ID3 TAG, Title, Artist or Album) in the display window. If there is no information, "No Title, No Artist and No Album" or "No ID3 Tag" will be shown in the display window.

1. Press the **FUN** repeatedly to select the Display mode.
2. Select the "DSPL NORM" mode pressing the **⏪ (left) / ⏩ (right)** or **◀ (left) / ▶ (right)** within 5 seconds.
3. Press **CLK/INFO** repeatedly on the front panel.
MP3/WMA : Clock → Folder name → File name → ID3 TAG
CD TEXT : Clock → Title → Artist → Album

NOTE

If you select the "DSPL All" mode the information will be shown automatically in the display window.

Track skip (-5/+5)

During playback, press **TRACK SKIP (-5)** button to go back to the previous 5th track, and press **TRACK SKIP (+5)** button to go forward to the next 5th track.

Operation with Audio CD and MP3/WMA Disc



Notes on MP3/WMA Recordings

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 a file extension other than “.mp3”.

About WMA (Window Media Audio)

- An WMA file is a Microsoft audio compression technology.
- WMA(Windows Media Audio) offers double the audio compression of the MP3 format.

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

1. Sampling Frequency / only at 44.1kHz (MP3), 22.05 - 44.1kHz (WMA)
2. Bit rate / within 32 - 320kbps (MP3), 32 - 128kbps (WMA)
3. CD-R/CD-RW physical format should be “ISO 9660”
4. If you record MP3/WMA files using the software which cannot create a FILE SYSTEM, for example “Direct-CD” etc., it is impossible to playback MP3/WMA files. We recommend that you use “Easy-CD Creator” which creates an ISO9660 file system.

5. A single session disc requires MP3/WMA files in the first track. If there is no MP3/WMA file in the 1st track, it cannot playback MP3/WMA files. If you wish to playback MP3/WMA files, format all the data in the disc or use a new one.
6. Folder or File names should have a maximum 27 letters or less. ID3 TAG: Title, Artist or Album names should have a maximum 29 letters or less. If the total number of letters for Title, Artist and Album is more than 59, Title and Artist only appear in the display window. CD TEXT: Title, Artist or Album names should have a maximum 31 letters or less. The file must incorporate “.mp3” or “.wma” extension e.g. “*****.MP3” or “*****.WMA”.

This unit requires discs/recordings to meet certain technical standards in order to achieve optimal playback quality. Pre-recorded DVDs are automatically set to these standards. There are many different types of recordable disc formats (including CD-R/CD-RW containing MP3 or WMA files). That require certain pre-existing conditions (see above) to insure compatible playback.

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.



Playback Setup

- Connect the CD Changer connector of this unit to connector of this CD Changer on page 16.
 - Audio system: Turn on the audio system and select the input source connected to the Car DVD Receiver.
1. Press **POWER/SOURCE** or **POWER** to turn the unit on.
 2. Select the CD changer function pressing **POWER/SOURCE** or **SOURCE** repeatedly.
 3. Insert a disc you want to play into the magazine.
Playback starts automatically.

Pause

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

Search

Press and hold the **◀(left)/▶(right)** on the front panel or **SCAN/SLOW ◀◀/▶▶** on the remote control for about 1 second during playback and then release at the point you want.

Moving to another Track

- Press the **◀(left)/▶(right)**, **◀(left) / ▶(right)** or **SKIP ◀◀/▶▶** briefly during playback to go to the next track or to return to the beginning of the current track.
- Press the **◀(left)**, **◀(left)** or **SKIP ◀◀** twice briefly to step back to the previous track.

Moving to another Disc

Press **⬆(up)/⬇(down)** or **⬆(up)/⬇(down)** briefly during playback to go to the next disc or step back to the previous disc.

Intro scan

1. Press **INT** or **INTRO** during playback.
The "INT" appears in the display window.
The first 10 seconds of all tracks on the disc are played in order.
2. Press **INT** or **INTRO** for more than 1 second during playback.
The "INT Disc" appears in the display window.
The first 10 seconds of the first track on the whole disc are played in order.
3. To return to normal playback, press **INT** or **INTRO** again.
The "INT" segment disappears in the display window.

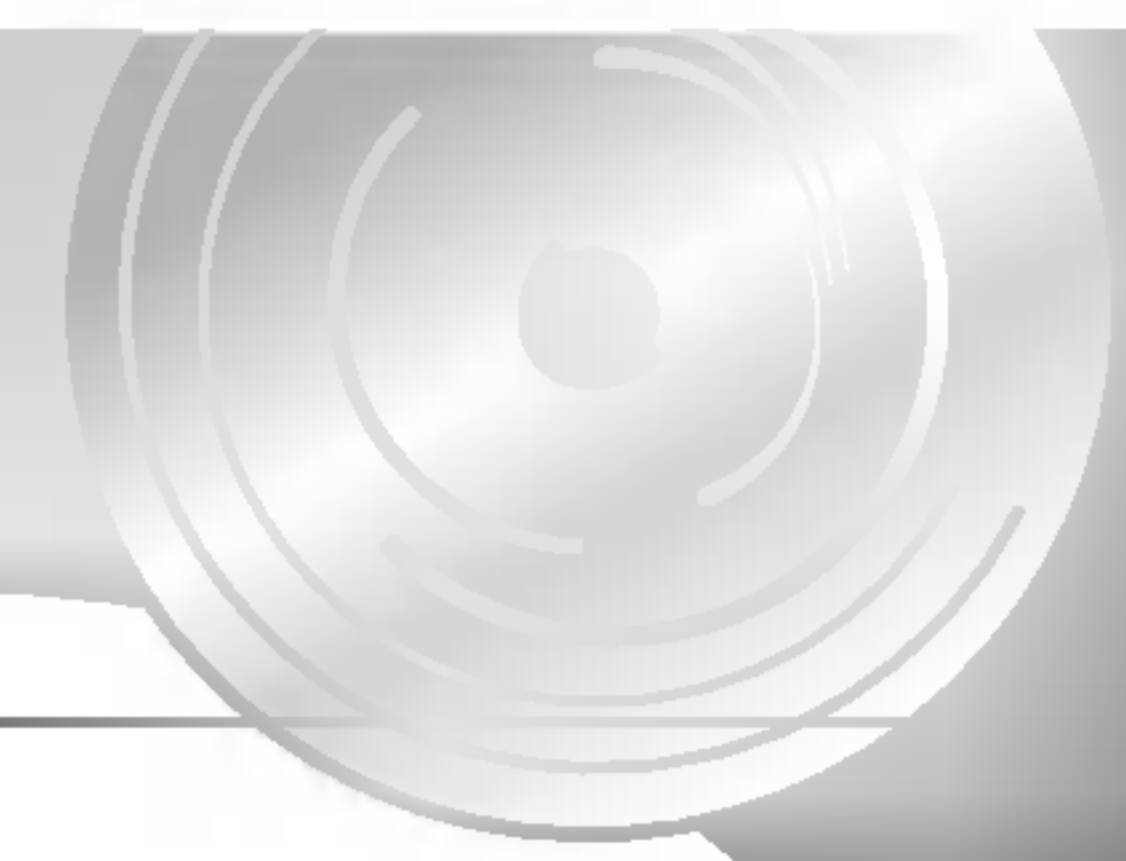
Repeat

1. Press **RPT** or **REPEAT** during playback.
The "RPT Track" appears in the display window.
2. Press **RPT** or **REPEAT** for more than 1 second during playback.
The "RPT Disc" appears in the display window.
All tracks on the disc are played repeatedly.
3. To cancel Repeat mode, press **RPT** or **REPEAT** again.
The "RPT" segment disappears in the display window.

Random

1. Press **RDM** or **RANDOM** during playback.
The "RDM" appears in the display window.
All tracks on the disc are played in random order.
2. Press **RDM** or **RANDOM** for more than 1 second during playback.
The "RDM CDC" appears in the display window.
All tracks on the whole disc are played in random order.
3. To return to normal playback, press **RDM** or **RANDOM** again.
The "RDM" segment disappears in the display window.





Symptom	Cause	Correction
Power doesn't turn on. The unit doesn't operate.	<ul style="list-style-type: none">Leads and connector are incorrectly connected.The fuse is blown.Noise and other factors are causing the built-in microprocessor to operate incorrectly.	<ul style="list-style-type: none">Confirm once more that all connections are correct.Rectify the reason for the fuse blowing, then replace the fuse. Be very sure to install the correct fuse with the same rate.Turn the unit off and then on.
The unit does not operate correctly even when the appropriate remote control buttons are pressed.	<ul style="list-style-type: none">Battery power is low.Some operations are prohibited with certain discs.	<ul style="list-style-type: none">Load new battery.Check using another disc.
Playback is not possible.	<ul style="list-style-type: none">The disc is dirty.The loaded disc is a type this unit cannot play.Non compatible video system disc is loaded.	<ul style="list-style-type: none">Clean disc.Check what type the disc is.Change to a disc compatible to your video system.
No sound are heard. The volume level will not rise.	<ul style="list-style-type: none">Cables are not connected correctly.The unit is performing still, slow motion or frame-by frame playback.	<ul style="list-style-type: none">Connect the cables correctly.There is no sound during still, slow motion or frame-by frame playback.
There's no picture.	<ul style="list-style-type: none">The parking brake cord is not connected.The parking brake cord is not applied.	<ul style="list-style-type: none">Connect a parking brake cord, and apply the parking brake.Connect a parking brake cord, and apply the parking brake.



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



Enter the appropriate code number for the initial settings “Disc Audio”, “Disc Subtitle” and/or “Disc Menu”
(See page 31).

Code	Language	Code	Language	Code	Language	Code	Language
6565	Afar	7079	Faroese	7678	Lingala	8375	Slovak
6566	Abkhazian	7082	French	7679	Laothian	8376	Slovenian
6570	Afrikaans	7089	Frisian	7684	Lithuanian	8377	Samoan
6577	Ameharic	7165	Irish	7686	Latvian, Lettish	8378	Shona
6582	Arabic	7168	Scots Gaelic	7771	Malagasy	8379	Somali
6583	Assamese	7176	Galician	7773	Maori	8381	Albanian
6590	Azerbaijani	7178	Guarani	7775	Macedonian	8382	Serbian
6665	Bashkir	7185	Gujarati	7776	Malayalam	8385	Sudanese
6669	Byelorussian	7265	Hausa	7778	Mongolian	8386	Swedish
6671	Bulgarian	7273	Hindi	7779	Moldavian	8387	Swahili
6672	Bihari	7282	Croatian	7782	Marathi	8465	Tamil
6678	Bengali; Bangla	7285	Hungarian	7783	Malay	8469	Telugu
6679	Tibetan	7289	Armenian	7784	Maltese	8471	Tajik
6682	Breton	7365	Interlingua	7789	Burmese	8472	Thai
6765	Catalan	7378	Indonesian	7865	Nauru	8473	Tigrinya
6779	Corsican	7383	Icelandic	7869	Nepali	8475	Turkmen
6783	Czech	7384	Italian	7876	Dutch	8476	Tagalog
6789	Welsh	7387	Hebrew	7879	Norwegian	8479	Tonga
6865	Danish	7465	Japanese	7982	Oriya	8482	Turkish
6869	German	7473	Yiddish	8065	Panjabi	8484	Tatar
6890	Bhutani	7487	Javanese	8076	Polish	8487	Twi
6976	Greek	7565	Georgian	8083	Pashto, Pushto	8575	Ukrainian
6978	English	7575	Kazakh	8084	Portuguese	8582	Urdu
6979	Esperanto	7576	Greenlandic	8185	Quechua	8590	Uzbek
6983	Spanish	7577	Cambodian	8277	Rhaeto-Romance	8673	Vietnamese
6984	Estonian	7578	Kannada	8279	Rumanian	8679	Volapük
6985	Basque	7579	Korean	8285	Russian	8779	Wolof
7065	Persian	7583	Kashmiri	8365	Sanskrit	8872	Xhosa
7073	Finnish	7585	Kurdish	8368	Sindhi	8979	Yoruba
7074	Fiji	7589	Kirghiz	8372	Serbo-Croatian	9072	Chinese
		7665	Latin	8373	Singhalese	9085	Zulu

REFERENCE



For the appropriate code number for the initial setting "Country Code" (See page 34).

Code	Country	Code	Country	Code	Country	Code	Country
AD	Andorra	BV	Bouvet Island	EH	Western Sahara	HN	Honduras
AE	United Arab Emirates	BW	Botswana	ER	Eritrea	HR	Croatia
AF	Afghanistan	BY	Belarus	ES	Spain	HT	Haiti
AG	Antigua and Barbuda	BZ	Belize	ET	Ethiopia	HU	Hungary
AI	Anguilla	CA	Canada	FI	Finland	ID	Indonesia
AL	Albania	CC	Cocos (Keeling) Islands	FJ	Fiji	IE	Ireland
AM	Armenia	CF	Central African Republic	FK	Falkland Islands	IL	Israel
AN	Netherlands Antilles	CG	Congo	FM	Micronesia	IN	India
AO	Angola	CH	Switzerland	FO	Faroe Islands	IO	British Indian Ocean Territory
AQ	Antarctica	CI	Ivory Coast	FR	France	IQ	Iraq
AR	Argentina	CK	Cook Islands	FX	France (European Territory)	IR	Iran
AS	American Samoa	CL	Chile	GA	Gabon	IS	Iceland
AT	Austria	CM	Cameroon	GB	Great Britain	IT	Italy
AU	Australia	CN	China	GD	Grenada	JM	Jamaica
AW	Aruba	CO	Colombia	GE	Georgia	JO	Jordan
AZ	Azerbaijan	CR	Costa Rica	GF	French Guyana	JP	Japan
BA	Bosnia-Herzegovina	CS	Former Czechoslovakia	GH	Ghana	KE	Kenya
BB	Barbados	CU	Cuba	GI	Gibraltar	KG	Kyrgyzstan
BD	Bangladesh	CV	Cape Verde	GL	Greenland	KH	Cambodia ⁶
BE	Belgium	CX	Christmas Island	GM	Gambia	KI	Kiribati
BF	Burkina Faso	CY	Cyprus	GN	Guinea	KM	Comoros
BG	Bulgaria	CZ	Czech Republic	GP	Guadeloupe (French)	KN	Saint Kitts & Nevis Anguilla
BH	Bahrain	DE	Germany	GQ	Equatorial Guinea	KP	North Korea
BI	Burundi	DJ	Djibouti	GR	Greece	KR	South Korea
BJ	Benin	DK	Denmark	GS	S. Georgia & S. Sandwich Isls.	KW	Kuwait
BM	Bermuda	DM	Dominica	GT	Guatemala	KY	Cayman Islands
BN	Brunei Darussalam	DO	Dominican Republic	GU	Guam (USA)	KZ	Kazakhstan
BO	Bolivia	DZ	Algeria	GW	Guinea Bissau	LA	Laos
BR	Brazil	EC	Ecuador	GY	Guyana	LB	Lebanon
BS	Bahamas	EE	Estonia	HK	Hong Kong	LC	Saint Lucia
BT	Bhutan	EG	Egypt	HM	Heard and McDonald Islands	LI	Liechtenstein

Code	Country	Code	Country	Code	Country	Code	Country
LK	Sri Lanka	NF	Norfolk Island	SD	Sudan	TW	Taiwan
LR	Liberia	NG	Nigeria	SE	Sweden	TZ	Tanzania
LS	Lesotho	NI	Nicaragua	SG	Singapore	UA	Ukraine
LT	Lithuania	NL	Netherlands	SH	Saint Helena	UG	Uganda
LU	Luxembourg	NO	Norway	SI	Slovenia	UK	United Kingdom
LV	Latvia	NP	Nepal	SJ	Svalbard and Jan Mayen Islands	UM	USA Minor Outlying Islands
LY	Libya	NR	Nauru	SK	Slovak Republic	US	United States
MA	Morocco	NU	Niue	SL	Sierra Leone	UY	Uruguay
MC	Monaco	NZ	New Zealand	SM	San Marino	UZ	Uzbekistan
MD	Moldavia	OM	Oman	SN	Senegal	VA	Vatican City State
MG	Madagascar	PA	Panama	SO	Somalia	VC	Saint Vincent & Grenadines
MH	Marshall Islands	PE	Peru	SR	Suriname	VE	Venezuela
MK	Macedonia	PF	Polynesia (French)	ST	Saint Tome and Principe	VG	Virgin Islands (British)
ML	Mali	PG	Papua New Guinea	SU	Former USSR	VI	Virgin Islands (USA)
MM	Myanmar	PH	Philippines	SV	El Salvador	VN	Vietnam
MN	Mongolia	PK	Pakistan	SY	Syria	VU	Vanuatu
MO	Macau	PL	Poland	SZ	Swaziland	WF	Wallis and Futuna Islands
MP	Northern Mariana Islands	PM	Saint Pierre and Miquelon	TC	Turks and Caicos Islands	WS	Samoa
MQ	Martinique (French)	PN	Pitcairn Island	TD	Chad	YE	Yemen
MR	Mauritania	PR	Puerto Rico	TF	French Southern Territories	YT	Mayotte
MS	Montserrat	PT	Portugal	TG	Togo	YU	Yugoslavia
MT	Malta	PW	Palau	TH	Thailand	ZA	South Africa
MU	Mauritius	PY	Paraguay	TJ	Tadjikistan	ZM	Zambia
MV	Maldives	QA	Qatar	TK	Tokelau	ZR	Zaire
MW	Malawi	RE	Reunion (French)	TM	Turkmenistan	ZW	Zimbabwe
MX	Mexico	RO	Romania	TN	Tunisia		
MY	Malaysia	RU	Russian Federation	TO	Tonga		
MZ	Mozambique	RW	Rwanda	TP	East Timor		
NA	Namibia	SA	Saudi Arabia	TR	Turkey		
NC	New Caledonia (French)	SB	Solomon Islands	TT	Trinidad and Tobago		
NE	Niger	SC	Seychelles	TV	Tuvalu		

REFERENCE



General

Output Power	.50W x 4CH(Max.)
Power Source	.DC 12V
Speaker impedance	.4 Ω
Ground System	.Negative type
Dimensions (W x H x D)	.185 x 50 x 170 mm (Without Front Panel)
Net Weight (approx.)	.1.8 kg

FM tuner

Frequency Range	.87.5-108 MHz
S/N Ratio	.55 dB
Distortion	.1.0%
Usable sensitivity	.12 dB

MW(AM) tuner

Frequency Range	.522-1620 kHz
S/N Ratio	.45 dB
Distortion	.1.0%
Usable sensitivity	.32 dB

CD/DVD/VCD

Frequency Range	.42 - 20000 Hz
S/N Ratio	.60 dB
Distortion	.0.5%

● Design and specifications are subject to change without notice.





P/NO : 3834RR0009Q