

LAC-M6501_ENG



OWNER'S MANUAL

MODEL : LAC-M6501



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

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



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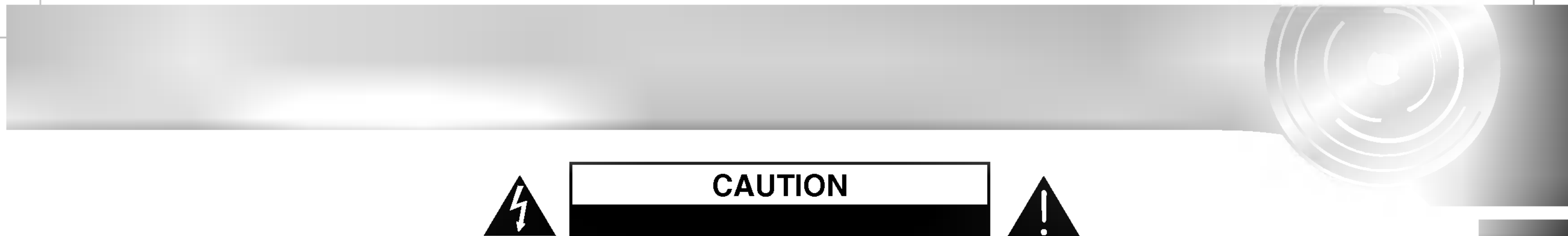
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Disposal of your old appliance

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.





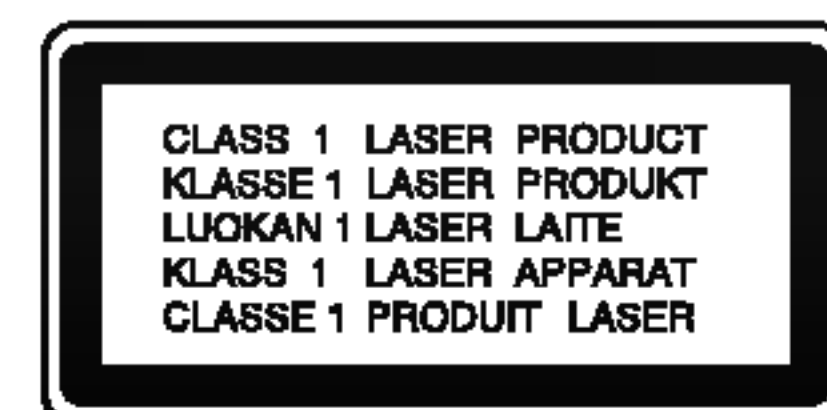
INTRODUCTION



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.



Caution: Protect this product from moisture.



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

CAUTION:

This unit employs a Laser System.

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

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

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



For safe and 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.

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.

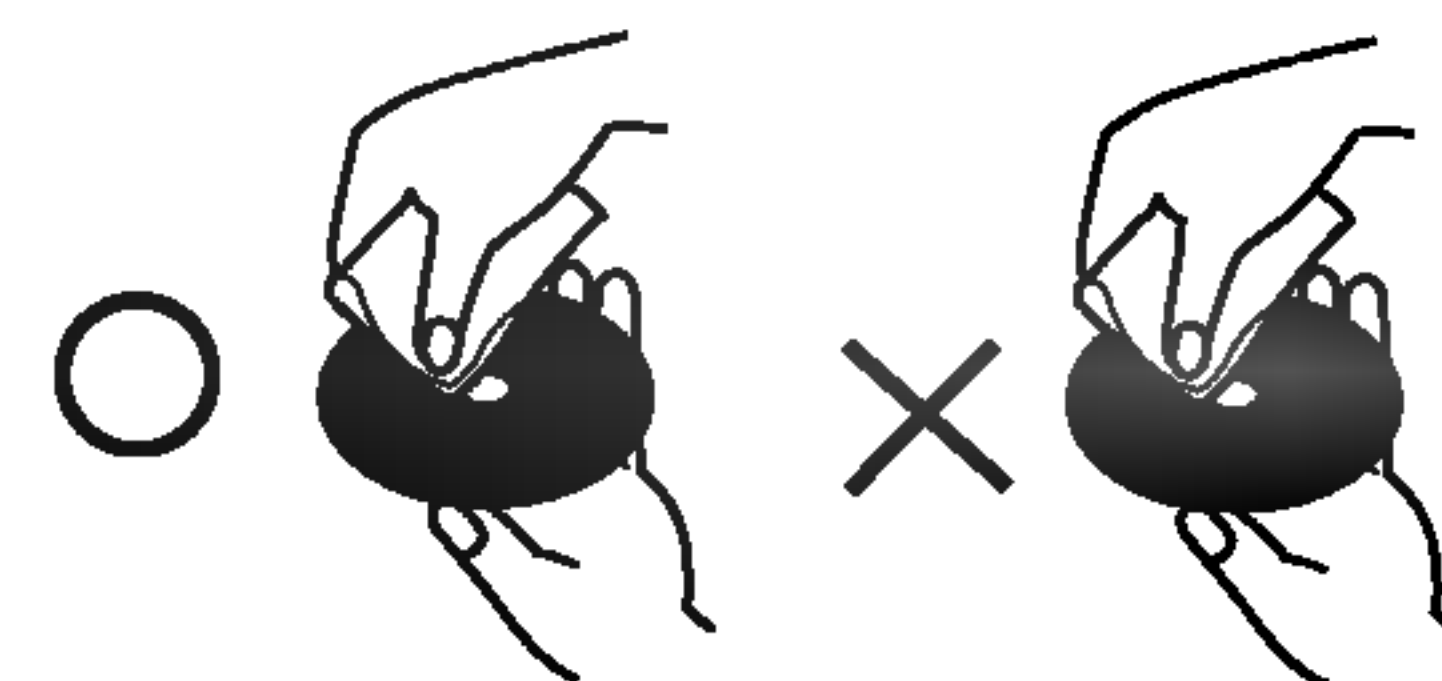


Storing Discs

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.

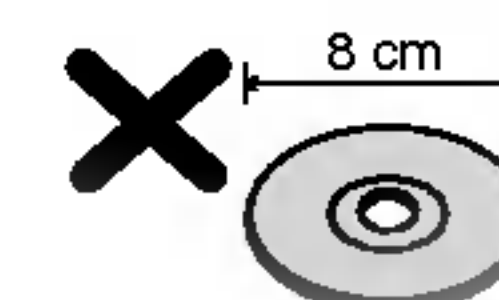
Cleaning Discs

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.

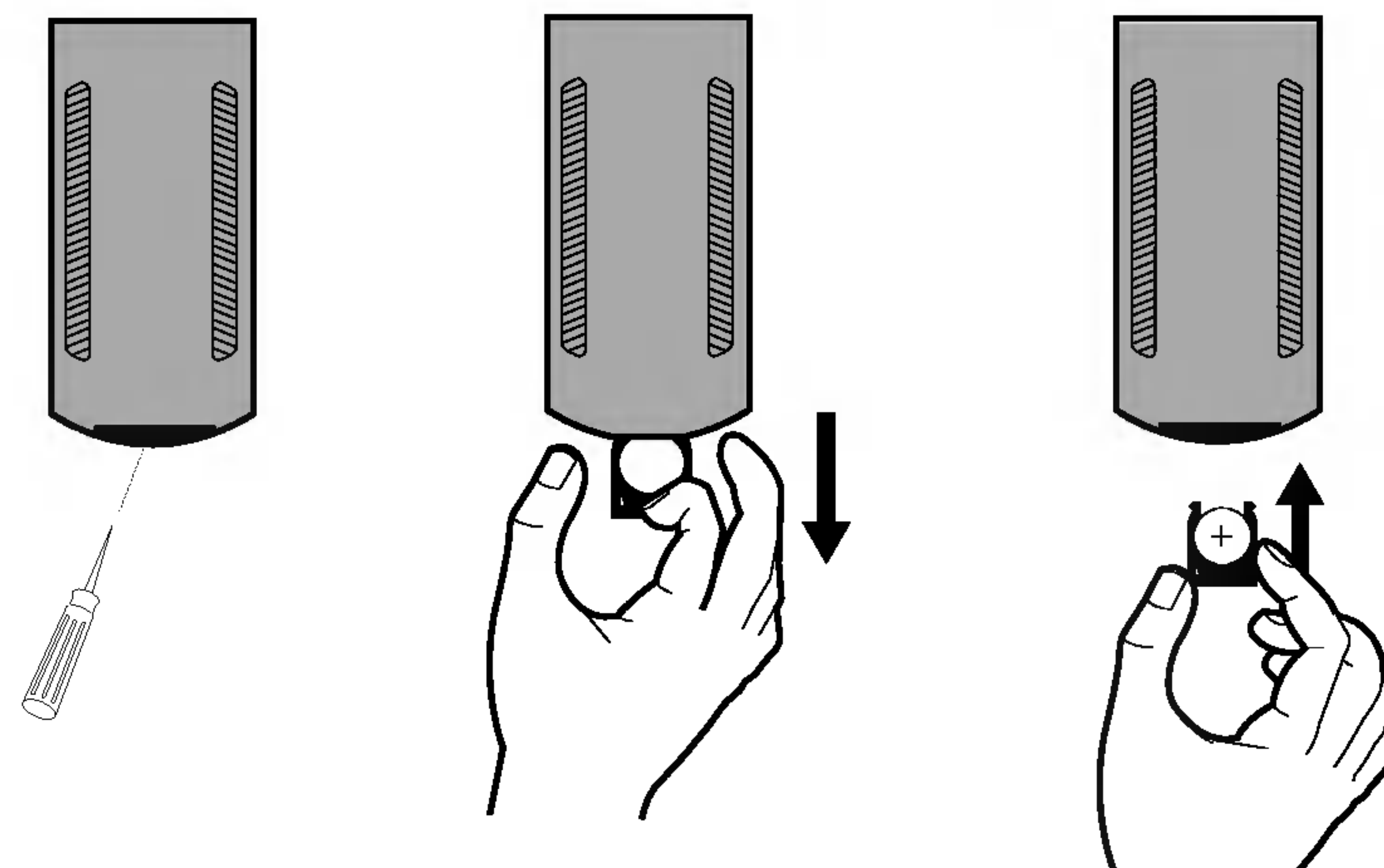
This unit cannot be operated by 8cm disc (using 12cm disc only).



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

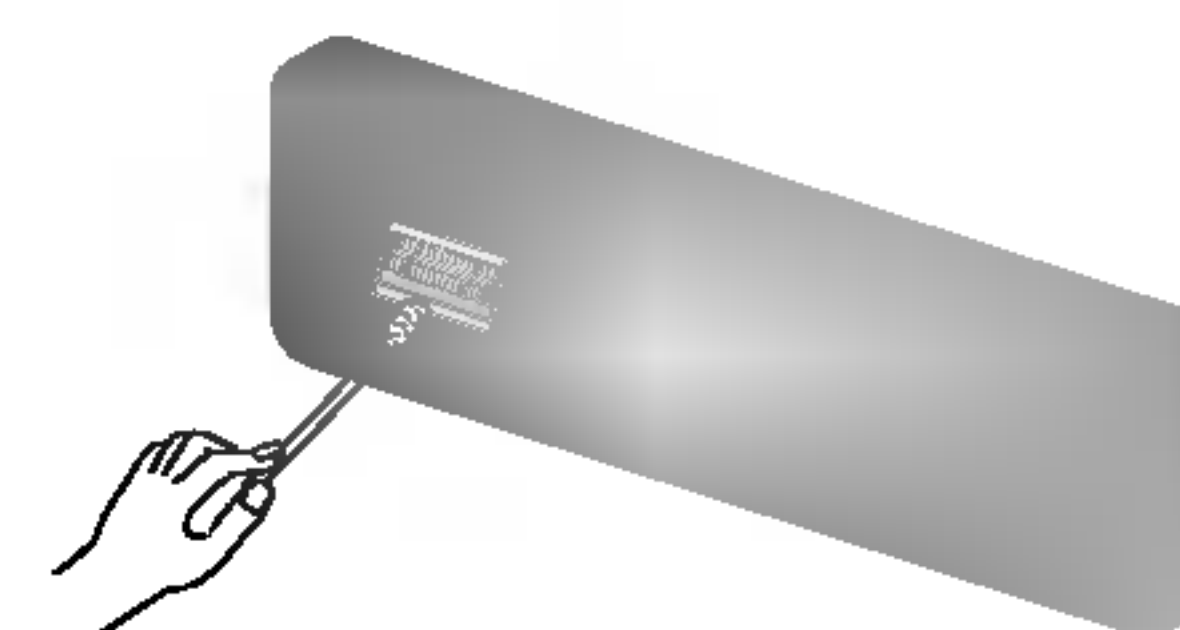
Point the remote control in the direction of the front panel to operate.

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

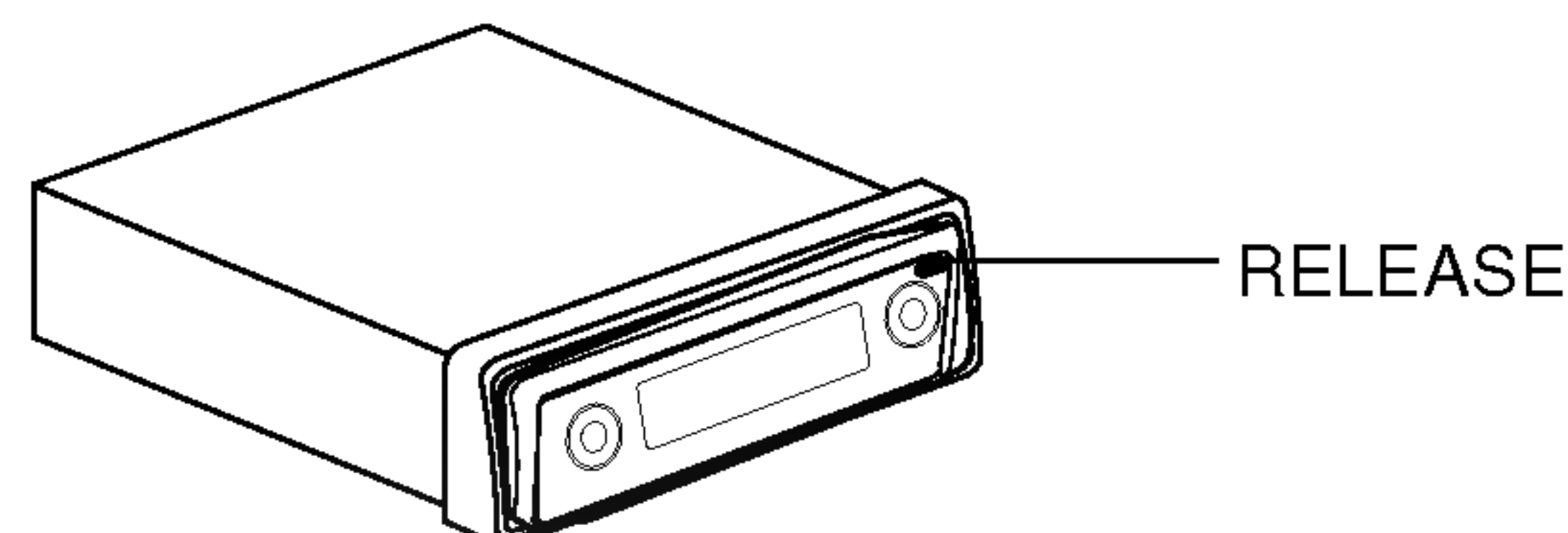
- This unit is designed to be operated on a 12 volt DC negative ground electrical system only.
- When replacing the fuse, be sure to use the fuse whose amperage rating is identical. Use of a fuse with higher amperage may cause serious damage to the unit.
- Periodically wipe the contacts on the back of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



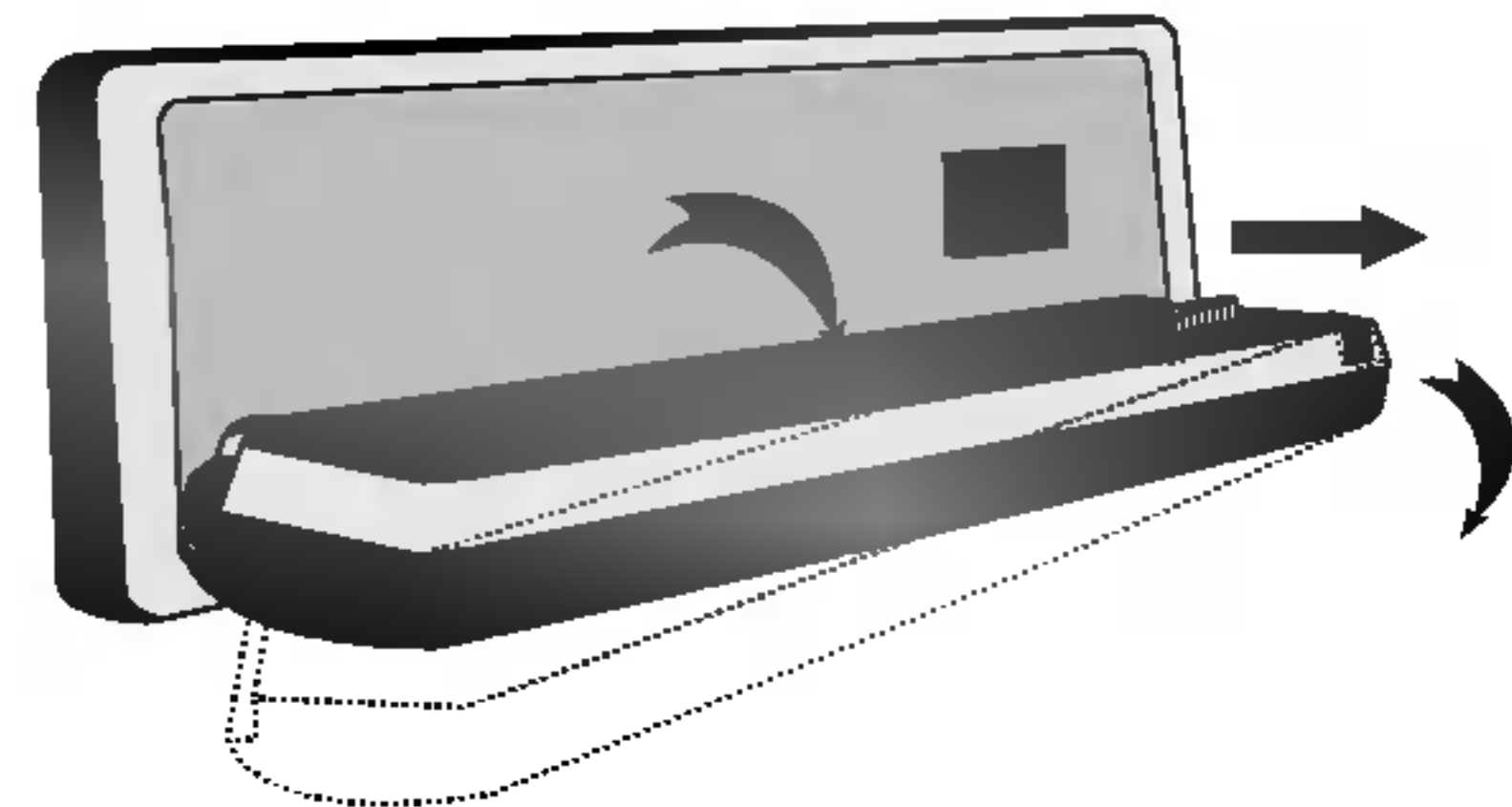
Protecting your unit from theft

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

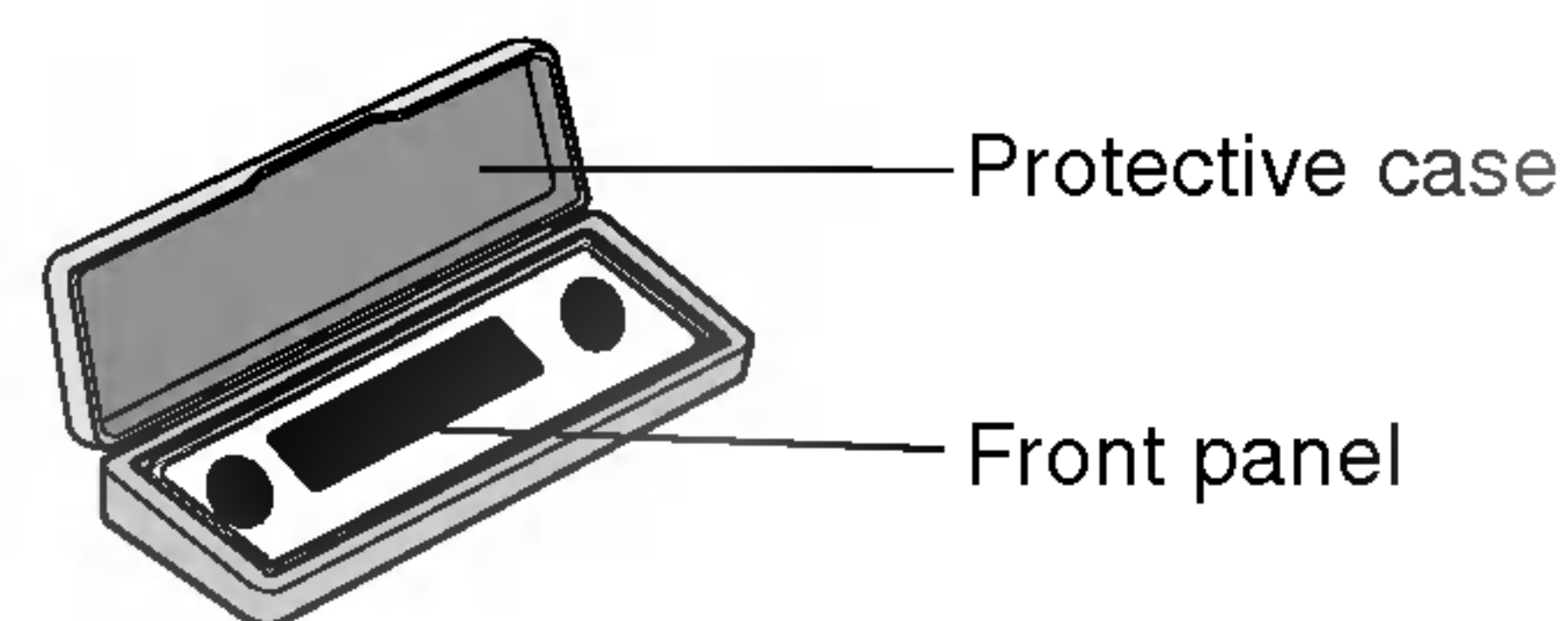
1. Press **RELEASE** to open the front panel.



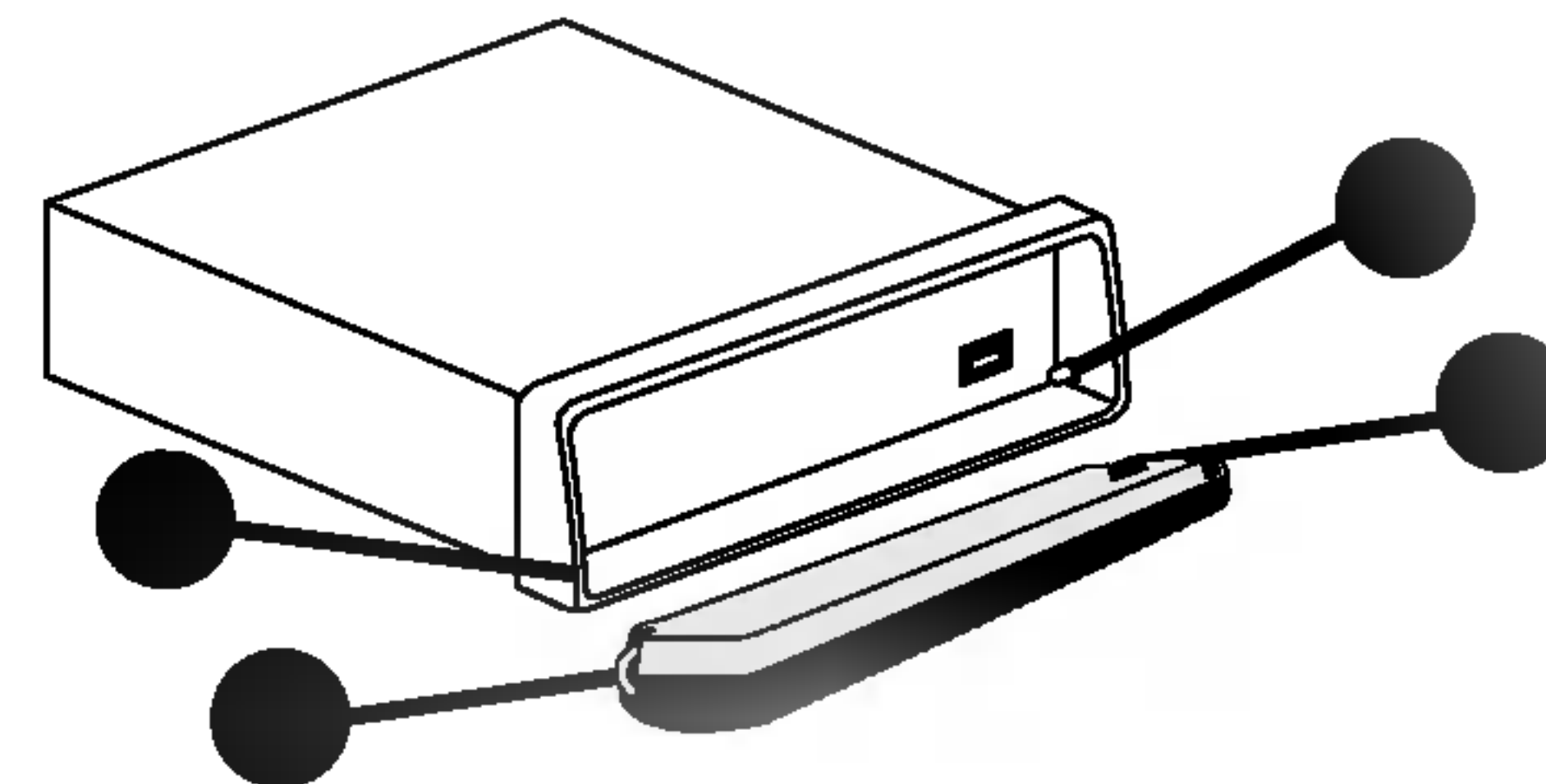
2. Push the front panel to right.
3. Pull the front panel.



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



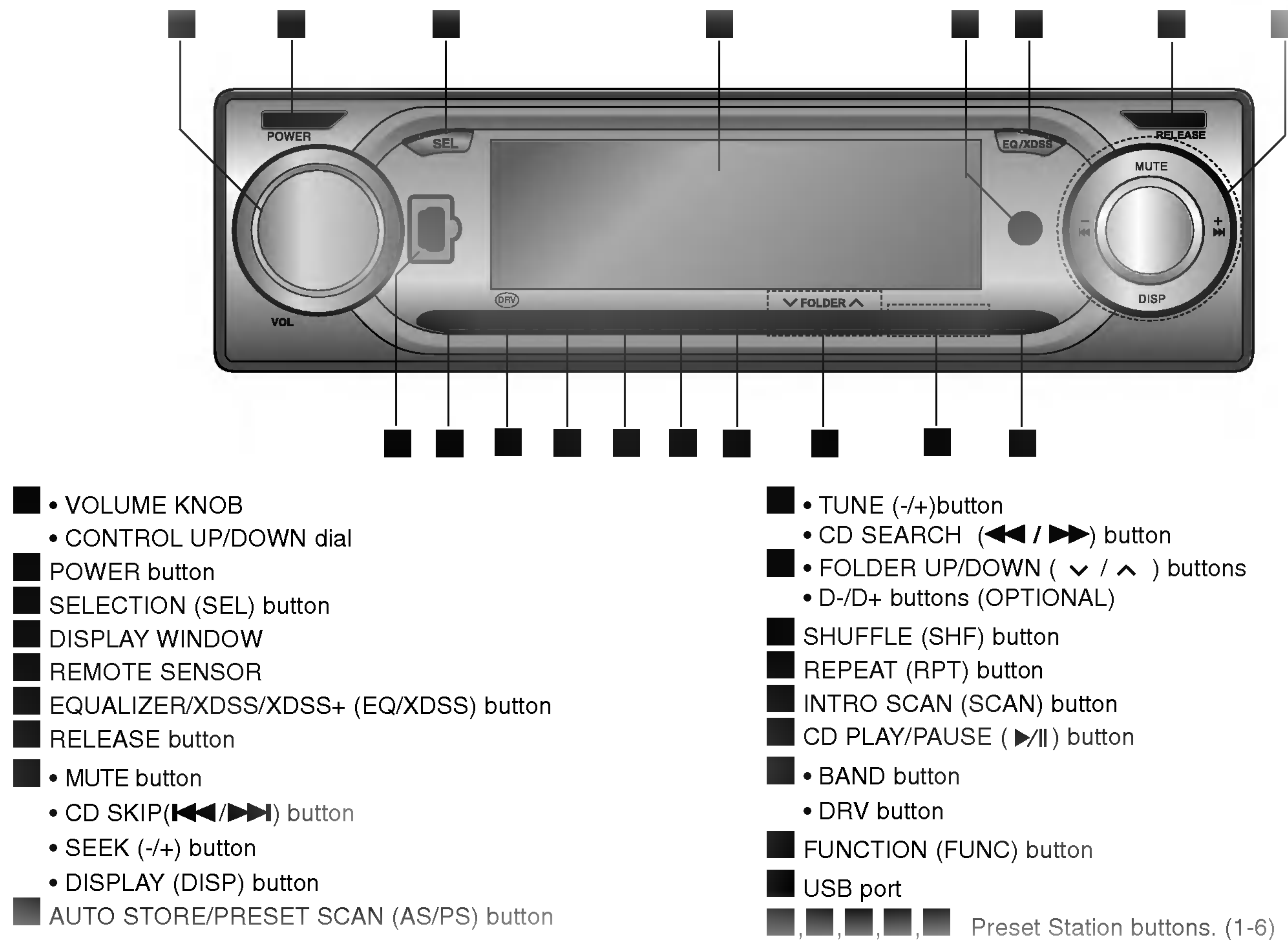
Attaching the front panel

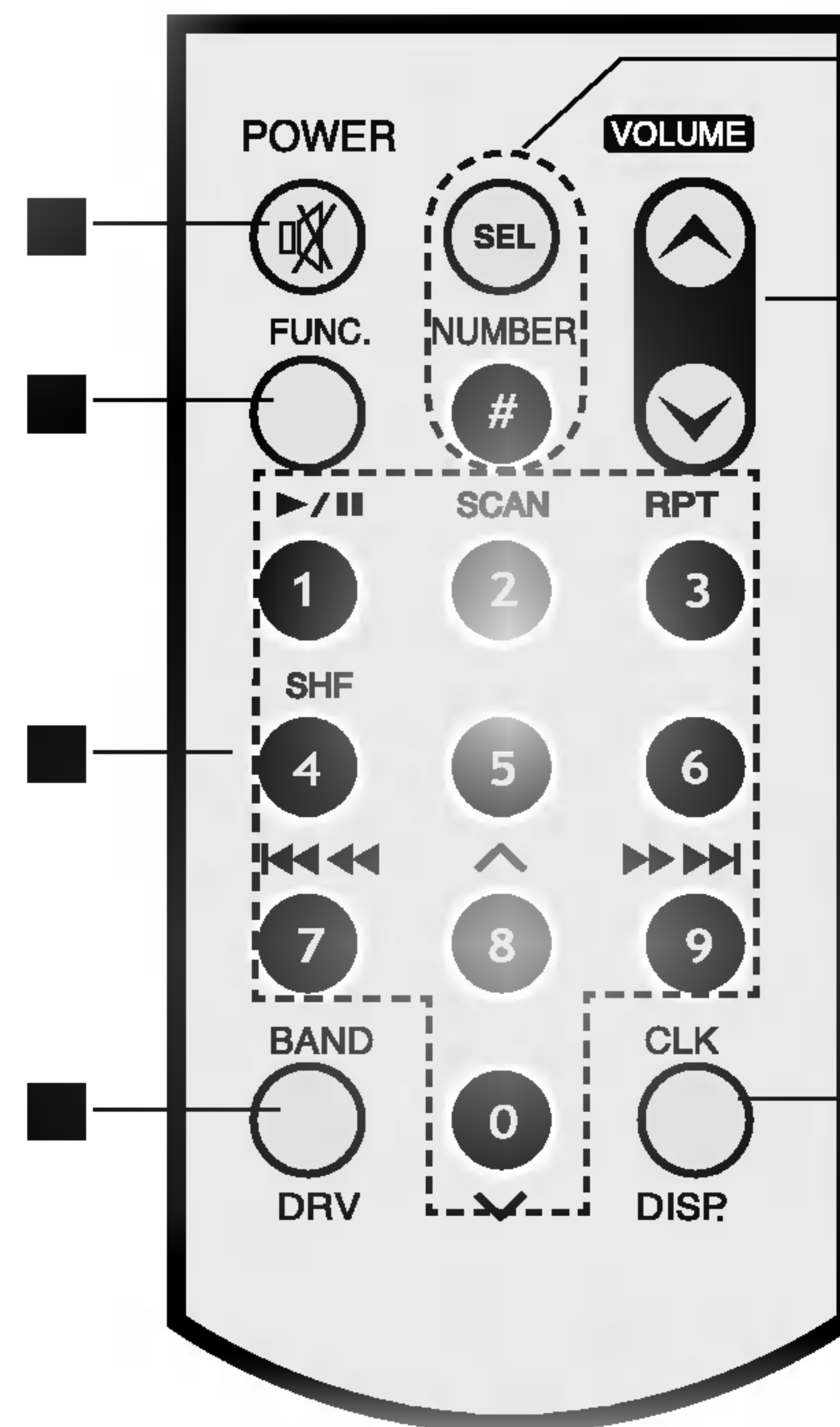


1. Join ● on the front panel to ● on the main unit.
2. Join ● on the front panel to ● on the main unit while pushing the front panel to left.
3. Close the front panel

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 subject it to strong impact.
- Do not allow such volatile agents as benzine, thinner, or insecticides to come into contact with the surface of the front panel.
- Do not try to disassemble the front panel.





• **POWER/MUTE** (⏻)

- Switches the unit ON and OFF.
- Press to mute the sound from the speaker.

• **FUNCTION (FUNC.)** button

Selects a function.

• **0-9 number** buttons

- Preset Station buttons. (1-6)

• **PLAY/PAUSE** (▶/⏸)

- Starts playback.
- Pauses playback temporarily.

• **SCAN**

- Plays the first 10 seconds of all track.

• **REPEAT (RPT)**

- Plays tracks repeatedly.

• **SHF**

- Plays tracks in random order.

• **SKIP/SEARCH** (⏮⏮ / ⏭⏭)

- Backward or forward search playback.
- Go to next track. Returns to beginning of current track or go to previous track.

• **DISC SELECTOR (D+/-) button** (Optional)

• **FOLDER UP/DOWN** (^ / v) button

• **BAND**

- Selects three FM and MW (AM) bands.

• **DRV** button.

- Go to next driver

• **SEL**

- Enters the audio settings.

• **NUMBER (#)**

- To play a file directly, press **NUMBER (#)** button and then press the track number with **0-9 number** buttons.

• **VOLUME** (⏮ / ⏭)

Adjusts the volume level.

• **DISPLAY (DISP.)**

- Changes the display.

• **CLOCK (CLK)**

- Clock display.

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.

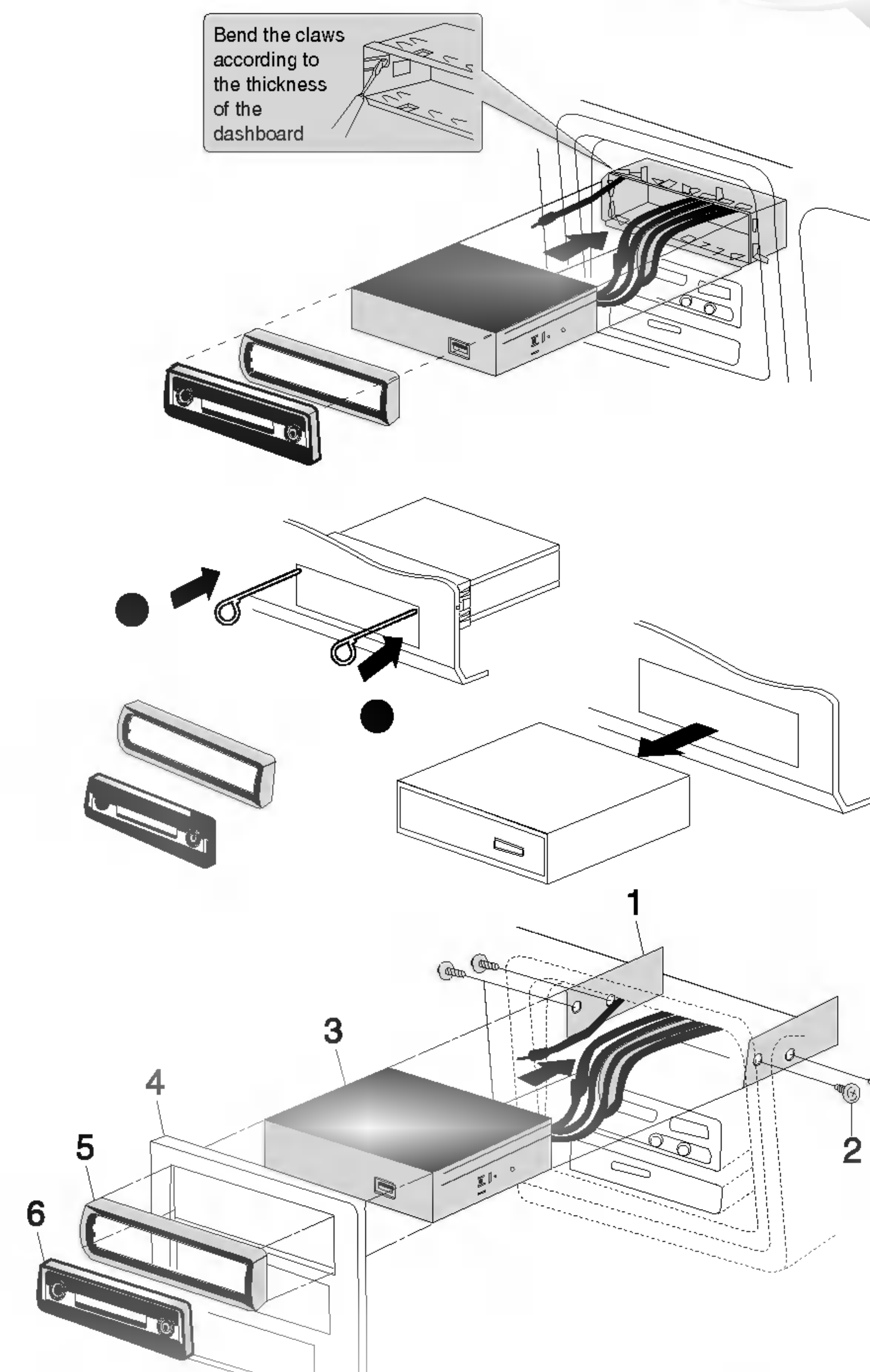
When removing the unit from the installation sleeve

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

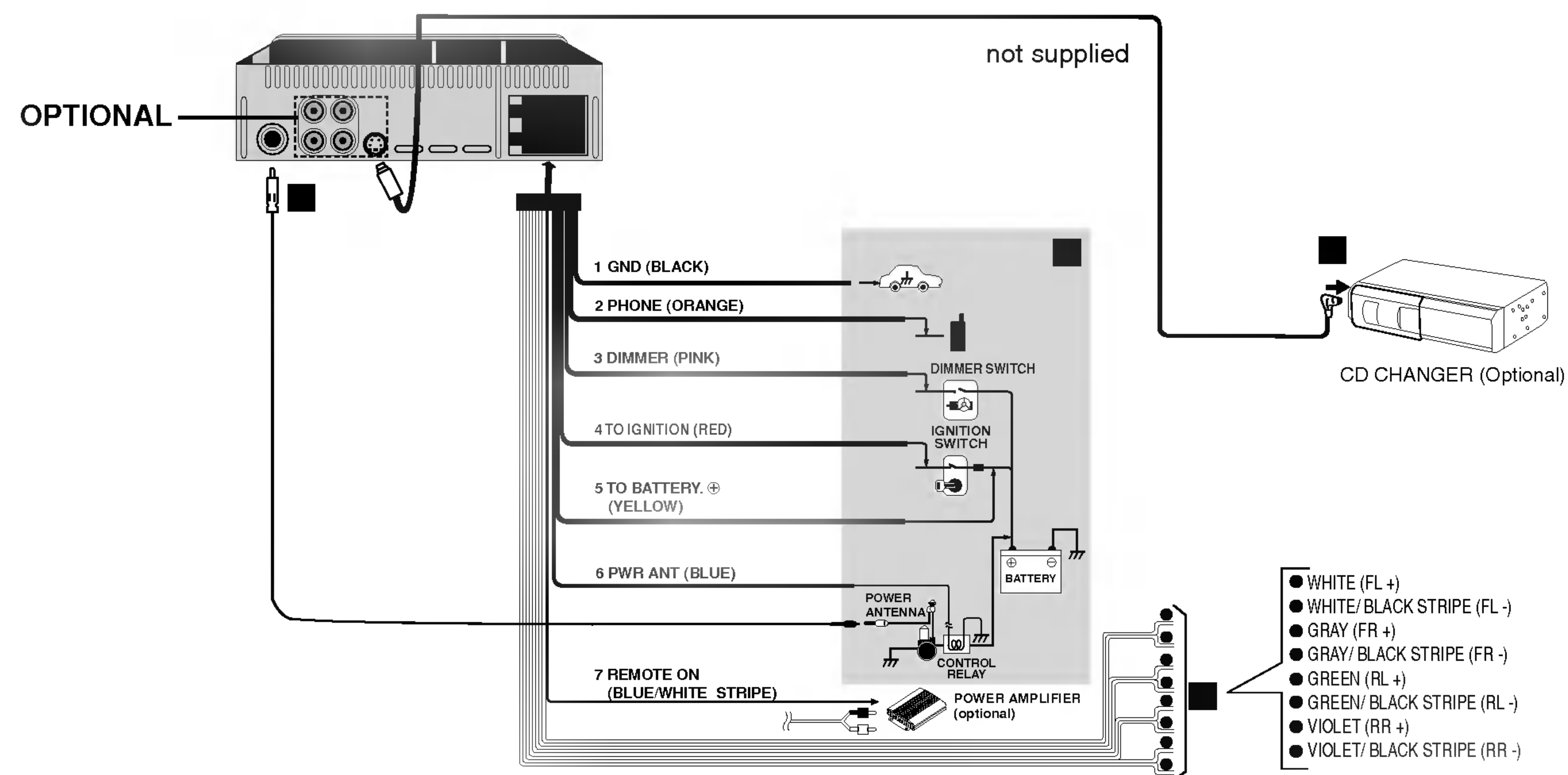
1. Slide the unit into ISO-DIN frame.
2. Install screws removed from old unit.
3. Slide the unit and frame into dash opening.
4. Install dash panel or adapter plate.
5. Install trim ring to the unit.
6. Install faceplate by fitting right edge into position then pushing left edge closed.



PREPARATION

Connecting to Car

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



Connecting to Car

A From antenna

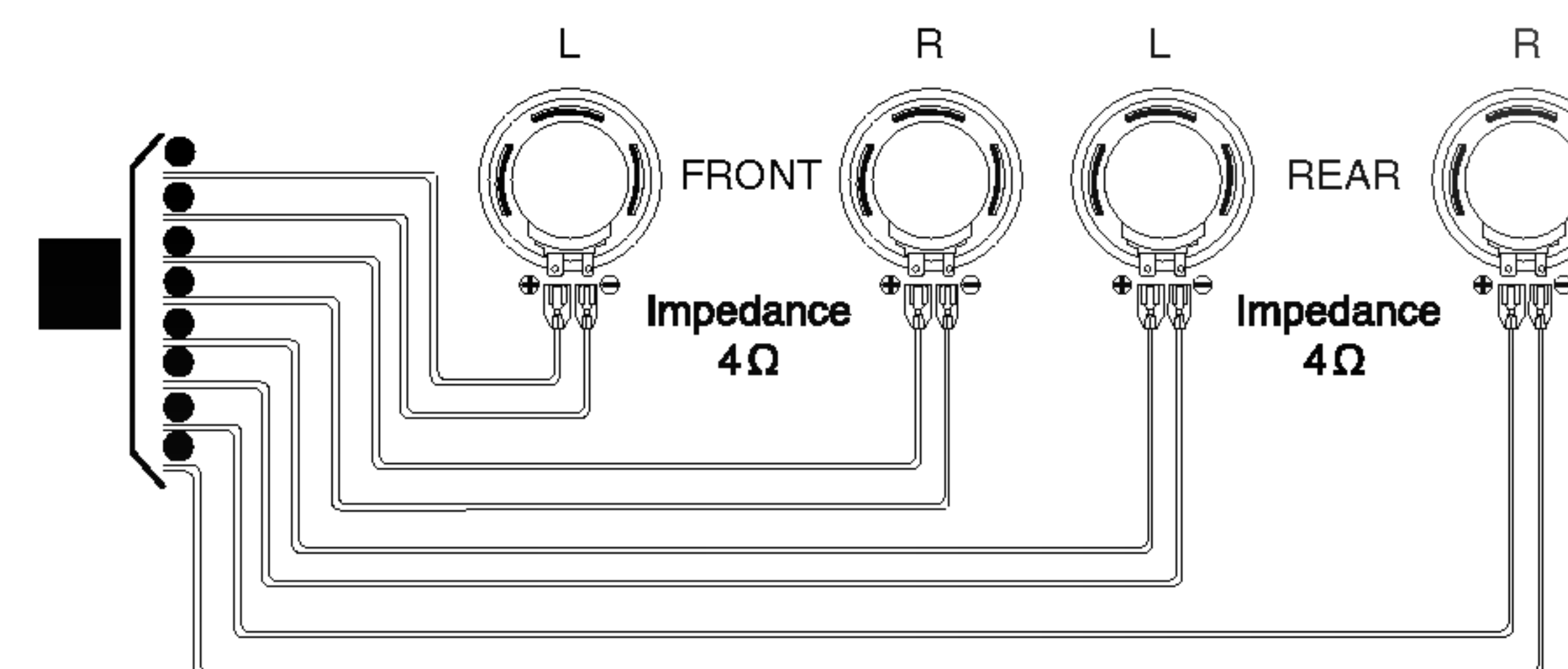
B To the wiring of vehicle Colors of leads

- 1 **BLACK** : This lead is for connection to the Ground.
- 2 **ORANGE** : This lead is for connection to the phone line.
- 3 **PINK** : 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

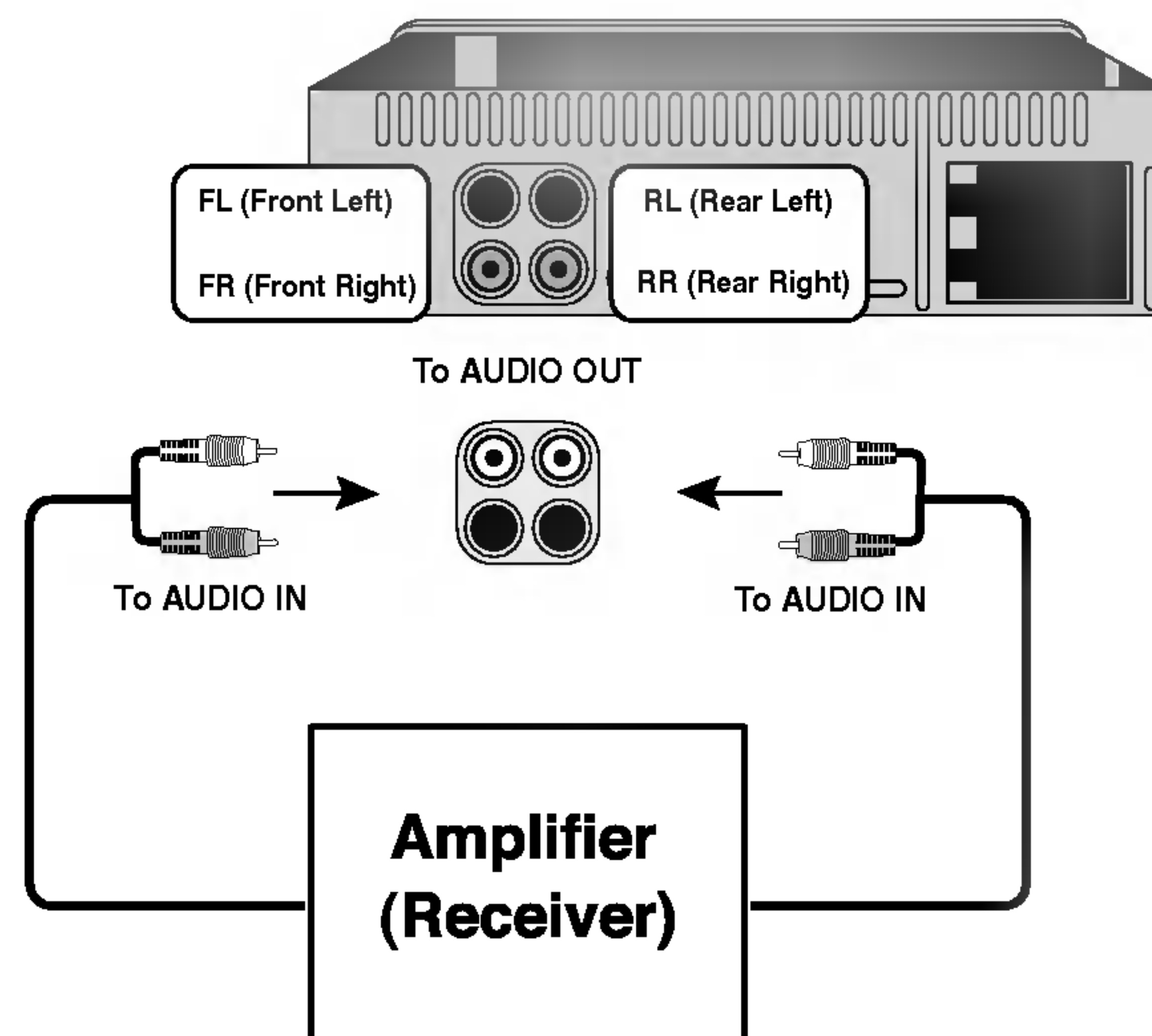


PREPARATION

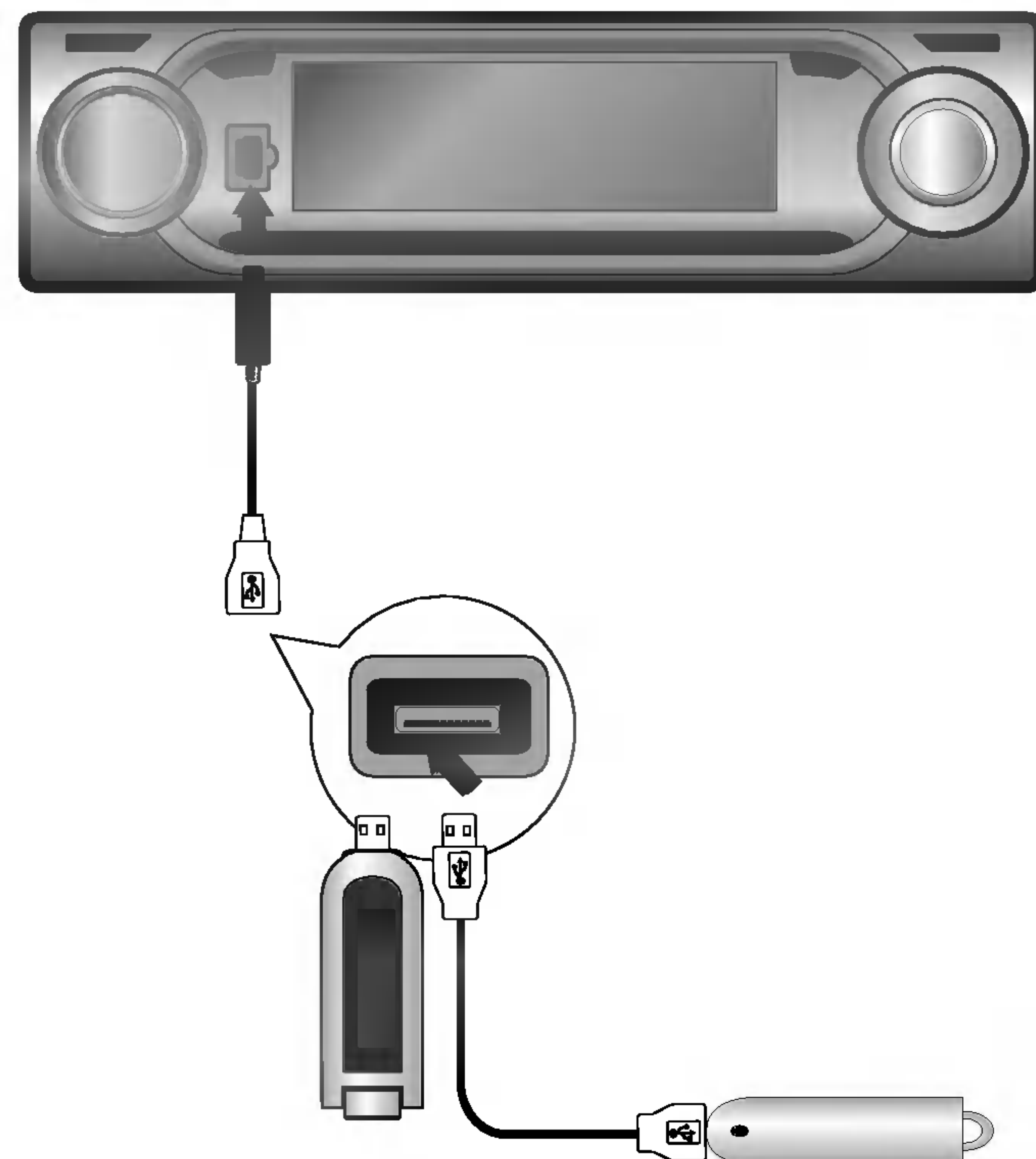


Connecting to Auxiliary Equipment (OPTIONAL)

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



Connecting USB port



1. Connect the plug of USB cable into the USB port.
2. Plug the USB device into the USB port of USB cable.

NOTES

- Don't remove a MP3 player or memory card while playing the USB.
- Numbers of file available are maximum 999 EA.
- Be sure to save file in the memory card after formatting.
- No cladding hard disk is supported.
- The HARD MP3 (or memory, MP3 player etc.) player available is maximum 32GB.
- The MP3 player requiring installation of a drive is not supported.
- This unit is supported FAT format.
- USB Hub is not supported. When connectting the this unit and USB Hub, "USB CHECK/NO USB" will be shown in display window.
- **There may be memory and card not be recognized depending on the type of memory card.**



Turning the unit on

Press **POWER** or any other button on the front panel or **POWER/MUTE** (🔊) on the remote control to turn the unit on.

Turning the unit off

- Press **POWER** on the front panel to turn the unit off.
- Press **POWER/MUTE** (🔊) on the remote control for more than 1.2 second to turn the unit off.

Selecting a source

You can select a source you want to listen to.

Press **FUNC** to select a source.

Press **FUNC** repeatedly to switch between the following sources:
Tuner → USB → CD → CD Changer (optional) → 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.
- If the USB function is not operated.
 - Disconnect USB cable and then connect USB cable.
 - Remove the front panel, and then attach the front panel.
- When operating the USB function, Do not open the front panel.
 - The unit which is connected goes wrong is a possibility of operating.

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.

Setting the clock

1. Press **DISP** or **CLK** and press **DISP** for more than 1 second.
(Clock indicator will be displayed for 5 seconds. Adjust the clock within 5 seconds.)
2. Press **▶▶** on the front panel to adjust the hour.
3. Press **◀◀** on the front panel to adjust the minute.
4. Press **DISP** or **CLK**.

Checking the clock

You can see the clock pressing **DISP** or **CLK**.

SOUND Adjustment

Using the EQ (Equalizer)

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

There are 7 stored equalizer curves which you can easily recall at any time.

Here is a list of the equalizer curves:

- EQ POP : Reproduces the acoustics of pop music.
- EQ CLASSIC : Reproduces the acoustics of orchestral music.
- EQ ROCK : Reproduces the acoustics of rock music.
- EQ JAZZ : Reproduces the acoustics of jazz music.
- EQ VOCAL: Reproduces the acoustics of vocal music.
- EQ USER 1 : Selects an initial user mode.
- EQ USER 2 : Selects an initial user mode.

1. Press **EQ/XDSS** on the front panel to select the equalizer.
2. Press **EQ/XDSS** repeatedly to select among the following equalizer.
Pop → Classic → Rock → Jazz → Vocal → User 1
→ User 2 → Flat(EQ OFF) → Pop....

MUTE

1. Press **MUTE [POWER/MUTE (M)]** to cut the sound.
2. To cancel it press **MUTE [POWER/MUTE (M)]** again.

XDSS+ (Extreme Dynamic Sound System)

Press and hold **EQ/XDSS** button to reinforce treble, bass and middle.

XDSS off (No display) → XDSS → XDSS+...

SELECTION (SEL) Button

	Turn right	Turn left
VOL	Increase the volume level.	Decrease the volume level.
BAS	Increase the bass level.	Decrease the bass level.
MID	Increase the Middle level.	Decrease the Middle level.
TRB	Increase the Treble level.	Decrease the Treble level.
BAL	Decrease the level of the left speaker(s).	Decrease the level of the right speaker(s).
FAD	Decrease the level of the front speaker(s).	Decrease the level of the rear speaker(s).

1. WAY

1. Select the **USER EQ1**, **USER EQ2** or **EQ OFF** using the **EQ/XDSS** button
2. Press the **SELECTION (SEL)** button repeatedly to select the mode you want to adjust from volume, bass, middle treble, balance and fader. The mode indicator lights up in the following order.

→ VOL → BAS → MID → TRB → BAL → FAD →

3. Turn left or right CONTROL UP/DOWN (or press **VOLUME (V / A)** on the remote control) to adjust the sound quality.

2. WAY

1. Press the **SELECTION (SEL)** button repeatedly to select the mode you want to adjust from volume, balance and fader. The mode indicator lights up in the following order.

→ VOL → BAL → FAD →

2. Turn left or right CONTROL UP/DOWN (or press **VOLUME (V / A)** on the remote control) to adjust the sound quality.

NOTE

The unit can adjust the bass, middle and treble in the **USER EQ1**, **USER EQ2** or **EQ OFF**.



Adjusting the Back Lighting Color

1. Press the **SEL** button for more than 2 seconds it is activated selecting mode.
2. After, pressing **SEL** button one by one activated as selecting **Back Lighting Color** mode.
3. Adjust the **Back Lighting Color**.
 - Turn left or right CONTROL UP/DOWN.
 - Press **VOLUME** (▼ / ▲).COL AUTO → COL RD (red) → COL GR (green) → COL YL (yellow) → COL BL (blue) → COL VL (violet) → COL SB2 (sky blue) → COL SB1 (sky blue) → COL AUTO ...

Setting the changing time of Back Lighting Color

This function is operated when If you select Back Lighting Color with AUTO

1. Press the **SEL** button for more than 2 seconds it is activated selecting mode.
2. After, pressing **SEL** button one by one activated as selecting the **changing time of Back Lighting Color** mode.
3. Setting the **changing time of Back Lighting Color**.
 - Turn left or right CONTROL UP/DOWN.
 - Press **VOLUME** (▼ / ▲).ColTm 5s (5 sec) → ColTm10s (10 sec) → ColTm15s (15 sec) → ColTm30s (30 sec) → ColTm 5s (5 sec) ...

BEEP SOUND FUNCTION

1. Press the **SEL** button for more than 2 seconds it is activated selecting mode.
2. After, pressing **SEL** button one by one activated as selecting **BEEP SOUND**.
 - Turn left or right CONTROL UP/DOWN.
 - Press **VOLUME** (▼ / ▲).
 - **BEEP ALL**
When any button is pressed, beep sounds.
 - **BEEP 2ND**
When the button with long key function is pressed for more than 1 seconds, beep sounds.

Setting the USER mode

1. Select the **EQ OFF** using the **EQ/XDSS** button
2. Press the **SELECTION (SEL)** button repeatedly to select the mode you want to adjust from volume, bass, middle treble, balance and fader. The mode indicator lights up in the following order.

→ VOL → BAS → MID → TRB → BAL → FAD →
3. Turn left or right CONTROL UP/DOWN (or press **VOLUME** (▼ / ▲) on the remote control) to adjust the sound quality.
4. Press the **SEL** button for more than 2 seconds and press the **SEL** button repeatedly to select "SetUser1".
5. Turn left or right CONTROL UP/DOWN to select "SetUser1" or "SetUser2".
6. Press the **SEL** button for more than 2 seconds.

Listening the radio stations

1. Press **POWER/MUTE** (OFF) [POWER on the front panel] button to turn the unit on.
 - When you select a source the unit is turned on.
2. Press **FUNC.** button to select the tuner.
3. Press **BAND** 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 SEEK(-/+) button on the front panel or **◀◀ ◻ / ▶▶ ▶▶** on the remote control with quick presses.
 - 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 SEEK(-/+) button or **◀◀ ◻ / ▶▶ ▶▶** with quick presses.
5. To perform manual tuning, press the TUNE(-/+) button with quick presses.
 - The frequencies move up or down step by step.

NOTE

- When the selected frequency is being broadcast in stereo, “((ST))” indicator will light.

Auto Search Memory

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

1. Press **FUNC** 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 BAND or AS/PS button.

Storing and recalling broadcast frequencies

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

1. Select the desired frequency
2. Press one of the **preset station** buttons (1 - 6) for more than 1 seconds. The number of the pressed preset station button is displayed.
3. Repeat steps 1 and 2 to preset other stations.

NOTES

- As F1, F2, F3 have the same frequency range, up to 18 station can be preset for FM.
- When a station is preset on the preset station button on which another station of the same band has already been preset, the previously preset station is automatically erased.

To scan the preset stations

Press **AS/PS** button on the front panel.

To stop the scanning, press **AS/PS** button.

To tune in the preset stations

Press BAND to select the desired band and press the desired number buttons (1-6) on the remote control.

The number of the preset station button is displayed and the preset station is received.





Operation with Audio CD, MP3/WMA Disc, USB and CD changer

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 21.

- To play a file directly, press **NUMBER (#)** button and then press the track number with **0-9 number** buttons.

Playing a CD changer (OPTIONAL)

Playback Setup

- Connect the CD Changer connector of this unit to connector of this CD Changer on page 10.
- Audio system: Turn on the audio system and select the input source connected to the unit.

1. Press **POWER** or **POWER/MUTE** (⏻) to turn the unit on.
2. Select the CD changer function pressing **FUNC** repeatedly.
3. Insert a disc you want to play into the magazine.
Playback starts automatically.

Moving to another Disc

Press **D(+/-)** briefly during playback to go to the next disc or step back to the previous disc.

Pause

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

Moving to another Track



- Press the **⏮ / ⏭** on the front panel or **⏮ ⏮ / ⏭ ⏭** on the remote control briefly during playback to go to the next track or to return to the beginning of the current track.
- Press the **⏮** on the front panel or **⏮ ⏮** on the remote control twice briefly to step back to the previous track.
(If playing times is in less then 3 seconds and then this function is not operated.)

Moving to another FOLDER

Press **FOLDER UP/DOWN** (^ / v) briefly to go to the next folder or step back to the previous folder.

Search

Press and hold the **⏮ / ⏭** on the front panel or **⏮ ⏮ / ⏭ ⏭** on the remote control for about 1 second during playback and then release at the point you want.

Moving to another DRIVER

When connecting the this unit to Multi reader and partition of memory, the DRV is used.

Press **DRV** briefly to go to the next Driver

- You can't select previous Driver using the **DRV** button.



Operation with Audio CD, MP3/WMA Disc, USB and CD changer



Repeat

- Press **RPT** during playback.
The "1 RPT" appears in the display window.
 - Press and hold **RPT** during playback.
MP3/WMA : The "RPT" appears in the display window.
(It is played repeatedly the whole file within the folder.)
CDC : The "RPT" appears in the display window.
(It is played repeatedly the whole file within the disc of CD changer.)
- Press **RPT** again.
The "1 RPT" or "RPT" disappears in the display window.
(The repeat mode is cancelled.)

Random

- Press **SHF** during playback.
The "SHF" appears in the display window.
 - Press and hold **SHF** during playback.
MP3/WMA : The "ALL SHF" appears in the display window.
(It is played randomly the whole file within the folder.)
CDC : The "ALL SHF" appears in the display window.
(It is played randomly the whole file within the disc of CD changer.)
- Press **SHF** again.
The "SHF" or "ALL SHF" disappears in the display window.
(Random play mode is cancelled.)

NOTE

- During random playback, if you press  button, you won't go back to the previous track.

Intro scan

- Press **SCAN** during playback.
The "SCAN" appears in the display window.
 - Press and hold **SCAN** during playback.
MP3/WMA : The "ALL SCAN" appears in the display window.
(It is played the first 10 seconds of the whole file within the folder.)
CDC : The "ALL SCAN" appears in the display window.
(It is played the first 10 seconds of the whole file within the disc of CD changer.)
- Press **SCAN** again.
The "SCAN" or "ALL SCAN" disappears in the display window.
(The intro scan is cancelled.)

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 TEXT" will be shown in the display window.

Press the **DISP** button repeatedly during MP3/WMA file playback.



Symptom	Cause	Correction
Power doesn't turn on. The unit doesn't operate.	● Leads and connector are incorrectly connected. ● The fuse is blown. ● Noise and other factors are causing the built-in microprocessor to operate incorrectly.	● 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.	● Battery power is low. ● Some operations are prohibited with certain discs.	● Load new battery. ● Check using another disc.
Playback is not possible.	● The disc is dirty. ● The loaded disc is a type this unit cannot play.	● Clean disc. ● Check what type the disc is.
No sound are heard. The volume level will not rise.	● Cables are not connected correctly.	● Connect the cables correctly.
There's no sound.	● The volume level is low.	● Adjust the volume.
There's audio skipping.	● This unit is not firmly secured.	● Secure this unit firmly.

Specifications

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

1. Sampling Frequency / 8 - 48kHz (MP3)
32 - 48kHz (WMA)
2. Bit rate / within 8 - 320kbps (include VBR) (MP3)
64 - 160kbps (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.

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 Power50W x 4CH(Max.)
Power SourceDC 12V
Speaker impedance4 Ω
Ground SystemNegative type
Dimensions (W x H x D)182 x 51 x 173 mm (Without Front Panel)
Net Weight (approx.)1.8 kg

FM tuner

Frequency Range87.5-107.9MHz or
87.5-108 MHz or 65-74 MHz, 87.5-108 MHz
S/N Ratio55 dB
Distortion1.0%
Usable sensitivity12 dB μ V

MW(AM) tuner

Frequency Range520-1720kHz or 522-1620 kHz
S/N Ratio45 dB
Distortion1.0%
Usable sensitivity32 dB μ V

CD

Frequency responses20 - 20000 Hz
S/N Ratio70 dB
Distortion0.15%

- Design and specifications are subject to change without notice.