Pioneer sound.vision.soul

AV Receiver/DVD Player with 7.0 inch Display and Dolby Digital/DTS Multi Channel Surround

ENGLISH

SUPER TUNER III

Owner's Manual

AVH-P7490DVD

This product conforms to CEMA cord colors.

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Dear Customer:

Selecting fine audio equipment such as the unit you've just purchased is only the start of your musical enjoyment. Now it's time to consider how you can maximize the fun and excitement your equipment offers. This manufacturer and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion—and, most importantly, without affecting your sensitive hearing.

Sound can be deceiving. Over time your hearing "comfort level" adapts to higher volumes of sound. So what sounds "normal" can actually be loud and harmful to your hearing. Guard against this by setting your equipment at a safe level BEFORE your hearing adapts.

To establish a safe level:

- Start your volume control at a low setting.
- Slowly increase the sound until you can hear it comfortably and clearly, and without distortion.

Once you have established a comfortable sound level:

- Set the dial and leave it there.

Taking a minute to do this now will help to prevent hearing damage or loss in the future. After all, we want you listening for a lifetime.

We Want You Listening For A Lifetime

Used wisely, your new sound equipment will provide a lifetime of fun and enjoyment. Since hearing damage from loud noise is often undetectable until it is too late, this manufacturer and the Electronic Industries Association's Consumer Electronics Group recommend you avoid prolonged exposure to excessive noise. This list of sound levels is included for your protection.

Decibel Level	Example
30	Quiet library, soft whispers
40	Living room, refrigerator, bedroom away from traffic
50	Light traffic, normal conversation, quiet office
60	Air conditioner at 20 feet, sewing machine
70	Vacuum cleaner, hair dryer, noisy restaurant
80	Average city traffic, garbage disposals, alarm clock at two feet.
THE FOLLOWING NOISES CAN BE DANGEROUS UNDER CONSTANT EXPOSURE	
90	Subway, motorcycle, truck traffic, lawn mower
100	Garbage truck, chain saw, pneumatic drill
120	Rock band concert in front of speakers, thunderclap
140	Gunshot blast, jet plane
180	Rocket launching pad

Information courtesy of the Deafness Research Foundation.

Before Using This Product

IMPORTANT SAFEGUARDS

PLEASE READ ALL OF THESE INSTRUCTIONS REGARDING YOUR DISPLAY AND RETAIN THEM FOR FUTURE REFERENCE

1. Read this manual fully and carefully before operating your display.
2. Keep this manual handy for future reference.
3. Pay close attention to all warnings in this manual and follow the instructions carefully.
4. Do not allow other persons to use this system until they have read and understood the operating instructions.
5. Do not install the display where it may (i) obstruct the driver's vision, (ii) impair the performance of any of the vehicle's operating systems or safety features, including air bags, or (iii) impair the driver's ability to safely operate the vehicle.
6. As with any accessory in your vehicle's interior, the display should not divert your attention from the safe operation of your vehicle. If you experience difficulty in operating the system or reading the display, please park safely before making adjustments.
7. Do not attempt to install or service your display by yourself. Installation or servicing of the display by persons without training and experience in electronic equipment and automotive accessories may be dangerous and could expose you to the risk of electric shock or other hazards.
8. Please remember to wear your seat belt at all times while operating your vehicle. If you are ever in an accident, your injuries can be considerably more severe if your seat belt is not properly buckled.

About This Product

This product is a combination of an AV Receiver and a DVD Player featuring a 7-inch wide display. Almost all operations can be performed with the AV Receiver, using the remote control with the operation mode switch set to “AUDIO”. To operate the DVD Player, set the operation mode switch to “DVD”. (Refer to “Setting the Remote Control for DVD Player Operation” on page 20.)

The tuner frequencies on this product are allocated for use in North America. Use in other areas may result in improper reception.

This product features a “Virtual Theater” Graphical User Interface which is referred to in this manual as the “Virtual Theater Quick Tour”. Once you understand the basic structure of the “Virtual Theater”, you will be able to navigate quite easily throughout it.

The basic structure of the “Virtual Theater” is actually quite simple. Everything is centralized around a base location known as the “Center Room”. (Refer to “Virtual Theater Quick Tour” on page 29.)

Dolby* Digital/DTS** Compatibility

You can enjoy the atmosphere and excitement provided by DVD-Video software featuring 5.1 channel recordings.

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

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

– Reorient or relocate the receiving antenna.
– Increase the separation between the equipment and receiver.
– Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
– Consult the dealer or an experienced radio/TV technician for help.

Information to User
Alteration or modifications carried out without appropriate authorization may invalidate the user’s right to operate the equipment.

[For Canadian model]
This Class B digital apparatus complies with Canadian ICES-003.

Video System of a Connected Component

This product is NTSC system compatible. When connecting an external component to this product, be sure the component is compatible with the same video systems. If it is not, images will not be correctly reproduced.

Output Setting of the DVD Player

When using a DVD Player for the first time, make the “Digital Output Setting (DIGITAL OUTPUT)” and “Digital and Analog Audio Output Setting (OUTPUT SELECTION)” as follows:

Function	Setting
DIGITAL OUTPUT	Dolby D/LPCM
OUTPUT SELECTION	48 kHz

Refer to “Setting for Digital Output” on page 126 and “Setting Digital and Analog Audio Output” on page 127.

Precaution:

- Be sure to set the correct position. If not, no audio can be output.

Be Sure to Adjust Picture Brightness

Although the angle at which the LCD can be positioned and viewed clearly is limited because of its design, visibility can be improved by adjusting the pictures brightness. When first using the display, adjust the picture to a brightness that allows clear visibility at the angle of use. (Refer to page 131.)

Preventing the Battery from Becoming Exhausted

When using this product, be sure your car engine is running. If you use this product when your engine is not running, the battery will become exhausted.

About This Manual

This product features a number of sophisticated functions ensuring superior reception and operation. All are designed for the easiest possible use, but many are not self-explanatory. This operation manual is intended to help you benefit fully from their potential and to maximize your listening enjoyment.

We recommend that you familiarize yourself with the functions and their operation by reading through the manual before you begin using this product. It is especially important that you read and observe the “Precaution” on page 11 and in other sections.

In the explanation on DVD Player operation, when there are restrictions concerning which discs can be operated, compatible discs are indicated with an icon.

To Ensure Safe Driving

⚠ WARNING

- To avoid the risk of accident and the potential violation of applicable laws, this product is not for use with a video screen that is visible to the driver.
- In some countries or states the viewing of images on a display inside a vehicle even by persons other than the driver may be illegal. Where such regulations apply, they must be obeyed.

To ensure safe vehicle operation, do not operate this product during driving. If you try to view pictures from a DVD-Video disc or other sources on the front display while the parking brake is not engaged, this warning will appear:

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 Rear Video Output

This product's Rear video output is for connection of a display to enable passengers in the Rear seats to watch the Video or DVD.

⚠ WARNING

- NEVER install the display in a location that enables the Driver to watch the Video or DVD while Driving.

Important

The serial number of this device is located on the top of the DVD player. For your own security and convenience, be sure to record this number on the enclosed warranty card.

Condition Memory

This function memorizes audio language, subtitle language, angle number, audio output (L, R) and aspect ratio made during disc playback for up to 30 discs. Without any special operations, the final setting details during playback of a disc are memorized. The next time a disc is played, the previous settings are automatically applied.

Note:

- With some discs, audio language and subtitle language are automatically specified, in which case condition memory does not function.
- When the number of discs exceeds 30, settings for the latest disc replace those for the least recent disc.

Resetting the Microprocessor

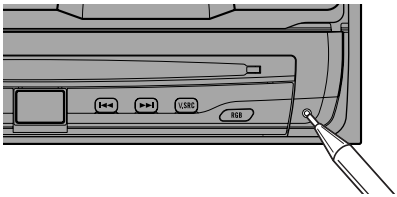
When the ignition switch is turned OFF, pressing the RESET button lets you reset the microprocessor to its initial settings without changing SET UP MENU settings, Condition Memory and other settings.

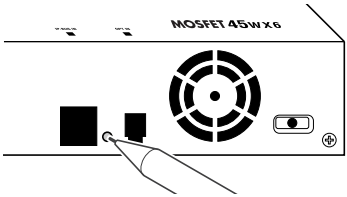
Press the RESET button in the following cases.

- When this unit fails to operate correctly.
- When strange (incorrect) messages appear on the display.

1. **Turn the ignition switch OFF.**
2. **Press the RESET button.**

   Use a pen tip or other pointed instrument.





Note:

- After completing connections or when you want to erase all memorized settings or return the unit to its initial (factory) settings, switch your engine ON or set the ignition switch to ACC ON before pressing the RESET button.

Precaution

CAUTION: USE OF CONTROL OR ADJUSTMENT OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

CAUTION: THE USE OF OPTICAL INSTRUMENTS WITH THIS PRODUCT WILL INCREASE EYE HAZARD.

- Keep this manual handy as a reference for operating procedures and precautions.
- Always keep the volume low enough for outside sounds to be audible.
- Protect this product from moisture.
- If the battery is disconnected, the preset memory will be erased and must be reprogrammed.

After-sales Service for Pioneer Products

Please contact the dealer or distributor from where you purchased the product for its after-sales service (including warranty conditions) or any other information. In case the necessary information is not available, please contact the companies listed below:

Please do not ship your product to the companies at the addresses listed below for repair without advance contact.

■ U.S.A.

Pioneer Electronics (USA) Inc.
CUSTOMER SUPPORT
DIVISION
P.O. Box 1760
Long Beach, CA 90801-1760
800-421-1404

■ CANADA

Pioneer Electronics of Canada, Inc.
CUSTOMER SATISFACTION
DEPARTMENT
300 Allstate Parkway
Markham, Ontario L3R OP2
(905) 479-4411
1-877-283-5901

For warranty information please see the Limited Warranty sheet included with your product.

When using the 50-Disc Type Multi-CD Player

The available functions of the 50-Disc Type Multi-CD Player are described in this manual. Note that other 50-Disc Type Multi-CD Player functions cannot be used with this product.

Discs Compatible with this Product

Features of This Player

Compatible with DVD, Video CD and CD Formats

DVD, Video CD and CD discs that display the logos shown below can be played back on this player. For more information on discs compatible with this player, refer to the table below.

Disc types and logos	Diameter/Playable sides		Playback time
DVD VIDEO	DVD VIDEO		Digital audio/Digital video (MPEG 2)
	12 cm (5 in.)/single-sided	1 layer	133 min.
		2 layer	242 min.
	12 cm (5 in.)/double-sided	1 layer	266 min.
		2 layer	484 min.
	DVD VIDEO		Digital audio/Digital video (MPEG 2)
	8 cm (3 in.)/single-sided	1 layer	41 min.
		2 layer	75 min.
	8 cm (3 in.)/double-sided	1 layer	82 min.
		2 layer	150 min.
VIDEO CD	VIDEO CD 12 cm (5 in.)/single-sided		Digital audio/Digital video (MPEG 1) Max. 74 minutes
	VIDEO CD single 8 cm (3 in.)/single-sided		Digital audio/Digital video (MPEG 1) Max. 20 minutes
CD	CD 12 cm (5 in.)/single-sided		Digital audio Max. 74 minutes
	CD single 8 cm (3 in.)/single-sided		Digital audio Max. 20 minutes

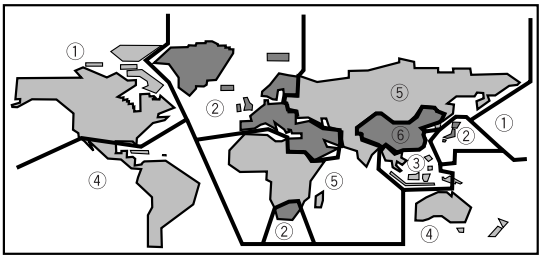
The disc format logos shown above are found on disc labels or on disc jackets.

Note:

- With some DVD-Video discs, you may not be able to use certain functions.
- Playback of some DVD-Video discs may not be possible.
- With DVD-R/DVD-RW discs, only recordings made in the Video format (Video mode) can be played back. DVD-RW discs recorded in the Video Recording format (VR mode) cannot be played back.
- Even with DVD-R/DVD-RW discs featuring recordings made in the Video format (Video mode), playback may not be possible with this product due to disc characteristics or scratches or dirt on the disc. Dirt or condensation on the lens inside this product may also prevent playback.
- Playback of CD-R/RW and DVD-R/RW discs that have not been finalized is not possible.
- Playback of discs recorded with a PC using the correct format is possible, but depending on the application software settings, environment and other factors, playback may not be possible. (For details, inquire at the store or dealer's where you purchased the application software.)
- Playback of CD-TEXT discs is possible, but display of titles and other information is not possible.
- CD-Extra discs can be played back as music CDs.

Precaution:

- Playback of DVD-Audio and CD-ROM discs is not possible. This player can only playback discs bearing the marks shown on page 12.
- **DVDs that have incompatible region numbers (see page 150) cannot be played on this player. The region number of the player can be found on the top of this product. The illustration below shows the regions and corresponding region numbers.**



- Normal playback of CD-R/CD-RW discs other than those recorded with a music CD recorder may not be possible.
- Playback of music CD-R/CD-RW discs, even those recorded with a music CD recorder, may not be possible with this product due to disc characteristics or scratches or dirt on the disc. Dirt or condensation on the lens inside this product may also prevent playback.
- If you insert a CD-RW disc into this product, time to playback will be longer than when you insert a conventional CD or CD-R disc.
- Read the precautions with the CD-R/CD-RW discs before using.

What the Marks on DVDs Indicate

The marks below can be found on DVD disc labels and packages. They indicate the type of images and audio recorded on the disc, and the functions you can use.

Mark	Meaning
2	Indicates the number of audio systems.
2	Indicates the number of subtitle languages.
3	Indicates the number of viewing angles.
16 : 9 LB	Indicates the picture size (aspect ratio: screen width-to-height ratio) type.
1 ALL	Indicates the number of the region where playback is possible.

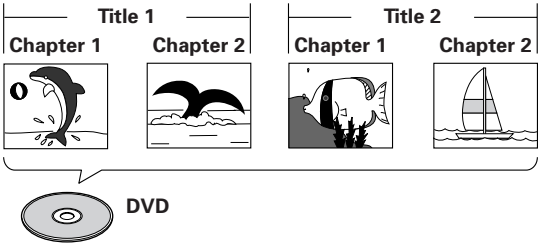
■ Disc Operation

With some DVDs, depending on the intentions of the disc's producer, certain operations may be prohibited. Also, with discs enabling menu operation and two-way operation during playback, the way titles and chapters are organized may prevent certain operations such as Repeat play.
If this happens with this player, the prohibited mark "⃠" is displayed.
The prohibited mark "⃠" may not appear on some discs.

Disc Organization

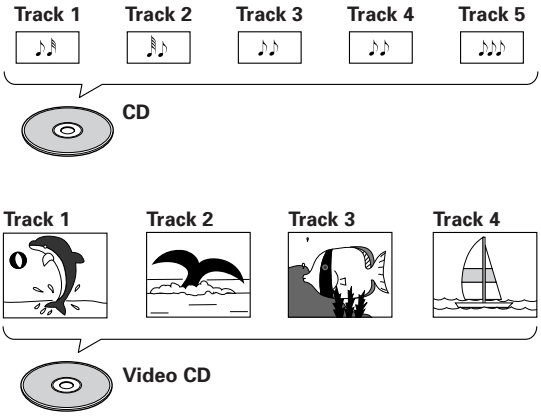
DVD

On DVD-Video discs, the contents are divided into titles which are in turn divided into chapters.
With video material, a single work (movie etc.) usually corresponds to a single title, with different scenes corresponding to separate chapters. With karaoke discs, one song corresponds to one title.
However, some discs are not organized like this, so bear this in mind when using the Search function.



Video CD and CD

On CDs and Video CDs, the contents are divided into tracks. One track usually corresponds to one song. On some discs, tracks may also feature an index.
With Video CDs featuring PBC (Playback Control), you can use a menu to perform playback operations. It may not be possible to use functions such as Repeat and Search.



Main Features of DVD Player

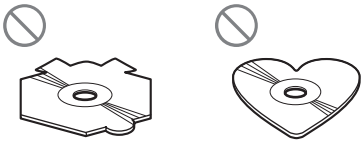
You can play back DVDs, Video CDs (PBC compatibility) and CDs.

Repeat Play	You can enjoy different kinds of repeat play.
Still Image & Frame-By-Frame Playback	You can view still images or playback of one frame at a time.
Slow Motion Playback	Slow motion playback is possible.
Multi-Aspect	Switching between Wide screen, Letter box and Panscan display is possible.
Multi-Audio	You can switch between multiple audio systems 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.
Video CDs featuring PBC Compatibility	You can play back Video CDs featuring PBC (Playback Control).
Parental Lock	You can use this to prevent your children viewing violent or adult oriented scenes.

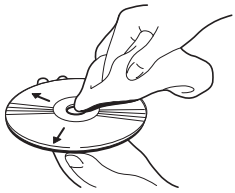
This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners.
Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Care of Discs

Precaution



- This product is designed for use with conventional, fully circular discs only. Use of shaped discs are not recommended for this product.
- Check all discs before playing and discard cracked, scratched or warped discs.
- Wipe dirty or damp discs outward from the center with a soft cloth.



- Avoid touching the recorded (iridescent) surface when handling discs.
- Store discs in their cases when not in use.
- Keep discs out of direct sunlight and high temperatures.
- Do not affix labels or apply chemicals to discs.
- Condensation may collect inside the player when using the heater in cold weather, interfering with playback. Turn it off for an hour or so and wipe damp discs with a soft cloth.
- Road shocks may interrupt disc playback.
- Never insert anything other than discs. Do not attach a label or tape to a disc.
- The use of benzine, thinner, insecticide, or other volatile chemicals may damage the disc surface.

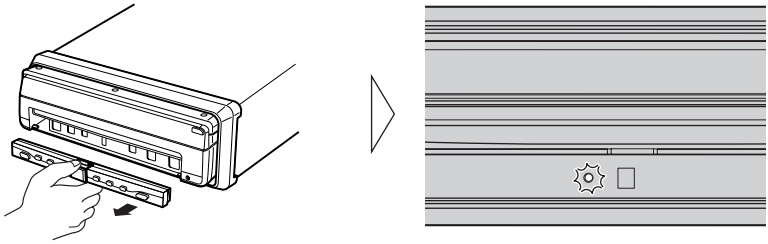
Detaching and Replacing the Front Panel

Theft Protection

The front panel of the DVD player is detachable to discourage theft.
When the front panel is detached, the display closes automatically and cannot be opened.
So, you will not be able to operate this product.

Detaching the Front Panel

- **Eject the front panel.**

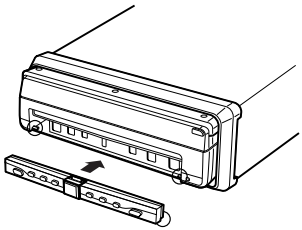


The LED indicator will flash while the front panel is being detached.

Note:
- Take care not to grip it too tightly or drop it.

Replacing the Front Panel

- **Replace the front panel by clipping it into place.**



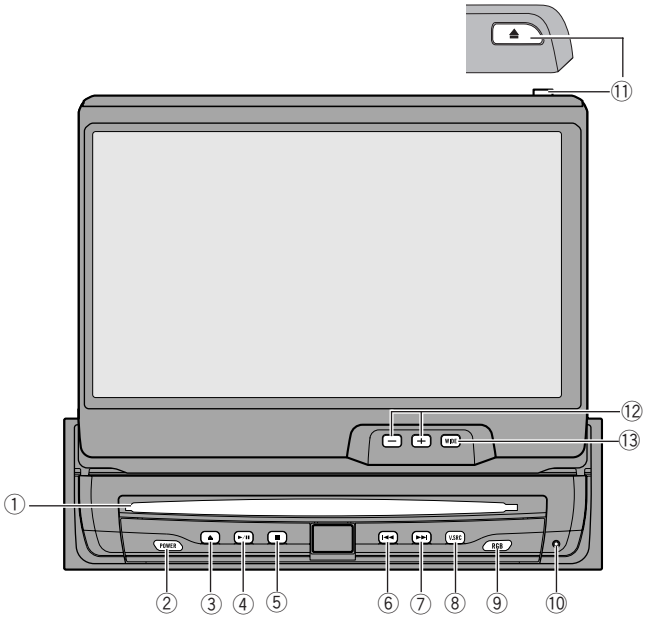
Align the groove on the bottom of the front panel with the guide on the main body, and clip in.

Precaution:
- When replacing the front panel, avoid pressing any of the buttons.
- Avoid subjecting the front panel to excessive shocks.
- Keep the front panel out of direct sunlight and high temperatures.

Key Finder

DVD Player

The following diagram shows the display when it is deployed.



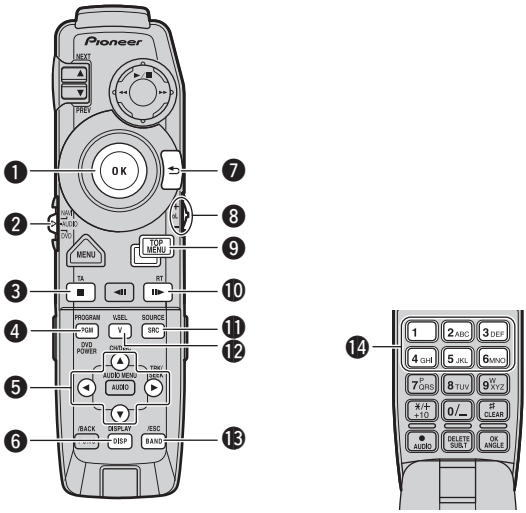
① Disc loading slot
② POWER button
③ Eject button
④ PLAY/PAUSE (▶/❚❚) button
⑤ STOP (■) button
⑥ PREVIOUS (⏮) button
⑦ NEXT (⏭) button
⑧ V.SOURCE button
⑨ RGB button
⑩ RESET button
⑪ OPEN/CLOSE (⏏) button
⑫ ANGLE buttons
⑬ WIDE button

Note:

- The DVD player plays one standard 12 cm (5 in.) or 8 cm (3 in.) single disc at a time. Do not use an adapter when playing 8 cm (3 in.) disc.
- Do not insert anything into the Disc Loading Slot other than discs that are compatible with this product.
- The DVD function can be turned ON/OFF with the disc remaining in the DVD player. (Refer to page 73.)
- A disc left partially inserted after ejection may incur damage or fall out.

Setting the Remote Control for AV Receiver Operation

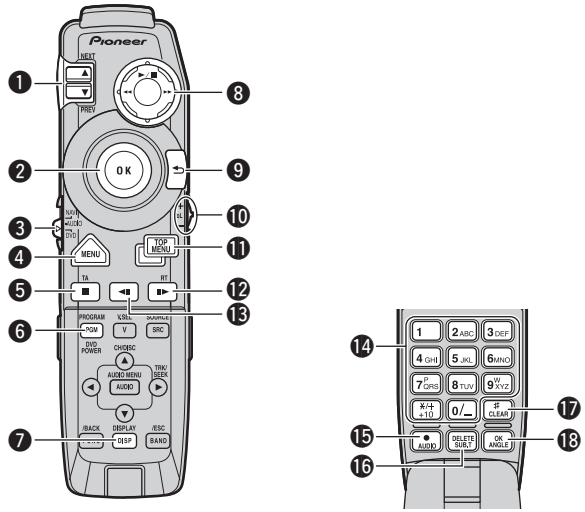
To operate this system's AV Receiver, set the remote control's operation mode switch to "AUDIO".



❶ Joystick
❷ Remote control operation mode switch
❸ TA button
❹ PGM button
❺ ▲/▼/◄/► buttons
❻ DISPLAY button
❼ RETURN button
❽ VOLUME
Move upward or downward to adjust the volume.
If it is pressed, the volume is reduced (by about 90%).
Press once more to return to the original volume level.
❾ MENU button
❿ RT button
⓫ SOURCE button
⓬ V.SEL button
⓭ BAND button
⓮ Buttons 1–6

Setting the Remote Control for DVD Player Operation

To operate this system's DVD Player, set the remote control's operation mode switch to "DVD".



❶ NEXT/PREV button
❷ Joystick
❸ Remote control operation mode switch
❹ MENU button
❺ STOP (■) button
❻ POWER button
❼ DISPLAY button
❽ Control stick
❾ RETURN button
❿ VOLUME
Move upward or downward to adjust the volume.
If it is pressed, the volume is reduced (by about 90%).
Press once more to return to the original volume level.

⓫ TOP MENU button
⓬ STEP (II►) button
⓭ STEP (◄II) button
⓮ Number buttons
⓯ AUDIO button
⓰ SUBTITLE button
⓱ CLEAR button
⓲ ANGLE button

Using the Remote Control

This product is equipped with a remote control for convenient operation.

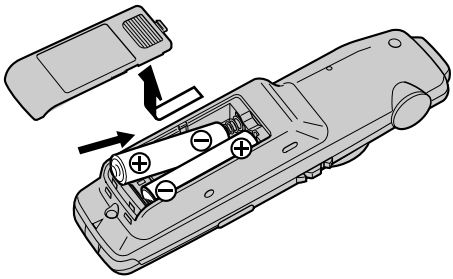
- Point the control in the direction of the signal reception on the color display to operate.
- When the control is not in use, attach it firmly to the provided mounting base.

Precaution:

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

Batteries

- **Remove the cover on the back of the remote control and insert the batteries with the (+) and (–) poles pointing in the proper direction.**



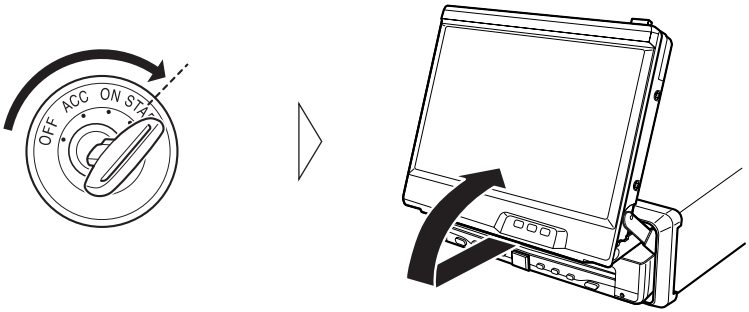
Precaution:

- Use only UM-4, AAA or IEC LR03 1.5 V batteries.
- Remove the batteries if the remote control is not to be used for a month or longer.
- Do not attempt to recharge the batteries supplied with remote control.
- Do not mix new and used batteries.
- In the event of battery leakage, wipe the remote control completely clean and install new batteries.
- We recommended using alkaline batteries as replacements.
- When disposing of used batteries, please comply with governmental regulations or environmental public institution's rules that apply in your country/area.

Operation of the Display

Deploying the Display

- **Turn your vehicle's engine ON.**



The display will be automatically deployed by the automatic close/open mode.

If the display is not automatically deployed, press the OPEN/CLOSE button.

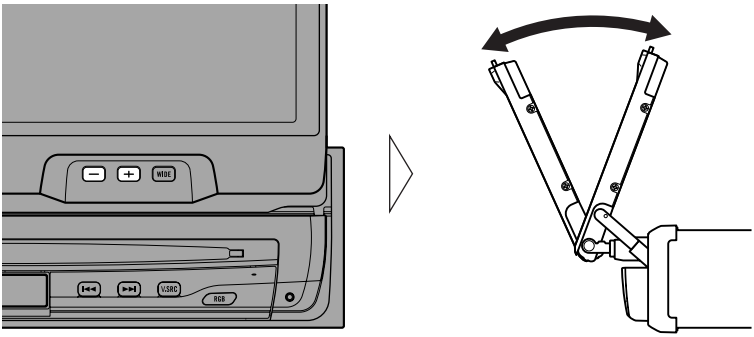
Note:

- The automatic close/open mode will operate the display as follows.
  * When the ignition switch is turned OFF while the display is deployed, the display will be closed after approximately 6 seconds.
    When the ignition switch is turned ON again (or turned to ACC), the display will be deployed automatically.
  * Installing the front panel will automatically deploy the display. (Refer to page 17.)
- The automatic close/open mode can be switched ON/OFF. (Refer to page 130.)
- When the ignition switch is turned OFF after the display has been closed, turning the ignition switch ON again (or turning it to ACC) will not deploy the display. In this case, press the OPEN/CLOSE button to deploy the display.

Screen Angle Adjustment

The angle of this product's screen continues changing as long as you keep pressing the ANGLE button.

- **Adjust the screen to an easily viewable angle.**



Precaution:

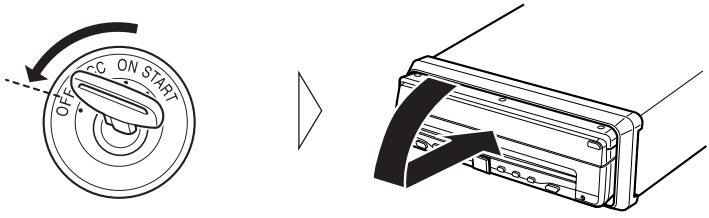
- If you can hear the display knocking against your vehicle's console or dashboard, press the ANGLE button on the (–) side to move the screen a little forward.

Note:

- When adjusting the angle, be sure to press the ANGLE button. Forcible adjusting of the display by hand may damage it.
- The adjusted angle of the display will be memorized and automatically returned to the next time the display is deployed.

Closing the Display

- **Turn the vehicle's engine OFF.**



The display will be automatically closed by the automatic close/open mode. If the display does not close automatically, press the OPEN/CLOSE button.

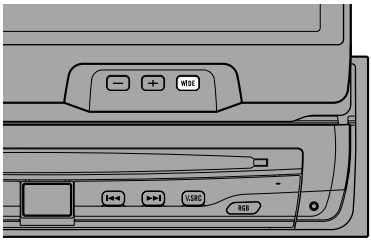
Note:

- When closing the display, check to make sure that it has closed completely. If the display has stopped halfway, leaving it like this could result in damage to it.
- The automatic close/open mode will operate the display as follows.
  * When the ignition switch is turned OFF while the display is deployed, the display will be closed after approximately 6 seconds.
    When the ignition switch is turned ON again (or turned to ACC), the display will be deployed automatically.
  * Removing the front panel will close the display. (Refer to page 17.)
- The automatic close/open mode can be switched ON/OFF. (Refer to page 130.)
- When the ignition switch is turned OFF after the display has been closed, turning the ignition switch ON again (or turning it to ACC) will not deploy the display. In this case, press the OPEN/CLOSE button to deploy the display.

Changing the Wide Mode

You can select a desired mode for enlarging a 4:3 picture to a 16:9 one.

- **Select the desired mode in the following order:**



Full (FULL) → Just (JUST) → Cinema (CINEMA) → Zoom (ZOOM) → Normal (NORMAL)

Full (FULL)

A 4:3 picture is enlarged in the horizontal direction only, enabling you to enjoy a 4:3 TV picture (normal picture) without any omissions.

Just (JUST)

The picture is enlarged slightly at the center and the amount of enlargement increases horizontally to the ends, enabling you to enjoy a 4:3 picture without sensing any disparity even on a wide screen.

Cinema (CINEMA)

A picture is enlarged by the same proportion as FULL or ZOOM in the horizontal direction and by an intermediate proportion between FULL and ZOOM in the vertical direction; ideal for a cinema-sized picture (wide-screen picture) where captions lie outside.

Zoom (ZOOM)

A 4:3 picture is enlarged in the same proportion both vertically and horizontally; ideal for a cinema-sized picture (wide-screen picture).

Normal (NORMAL)

A 4:3 picture is displayed as it is, giving you no sense of disparity since its proportions are the same as that of the normal picture.

Note:

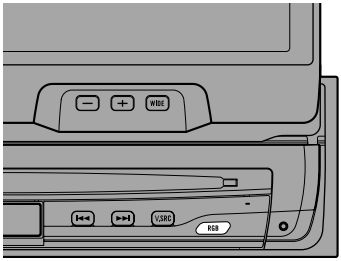
- Different settings can be memorized for the AV, VCR and RGB video. In addition, different settings can also be memorized for a component (AV) connected to the AV-BUS input.
- The Wide Mode used for menu setting is switched to Full (FULL). The Wide Mode will return when the menu setting is deleted.
- When video is viewed in a wide mode that dose not match its original aspect ratio, it may appear differently.
- Remember that using the wide mode feature of this system for commercial or public viewing purpose may constitute an infringement on the author's rights protected by the Copyright Law.
- Video will appear roughened when viewed in CINEMA or ZOOM mode.

Switching the Video Source

■ Switching to RGB

You can watch videos from the AV-Receiver. Usually set the video source to RGB.

- **Switch to RGB.**



Repeat the preceding operation to switch to the previous video source.

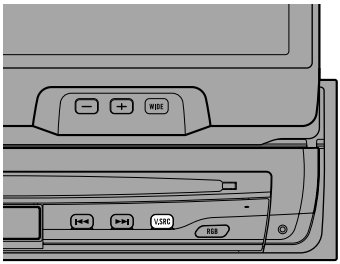
Note:
- If you select the “AVM” video select setting in the display setting menu, video is locked to RGB. (See page 130.)

■ Switching to AV and VCR

You can switch between video from a component connected to the DVD player’s video input (VCR) and video from the built-in DVD player or component connected to AV-BUS input (AV).

Note:
- When switched to AV, you can watch video from the AV-BUS component selected with the AV Receiver’s source select.

- **Select the desired video source in following order:**



AV → VCR

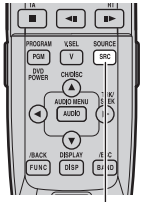
Note:
- If you select the “AVM” video select setting in the display setting menu, video is locked to RGB. (See page 130.)

Operation for Each Source Unit

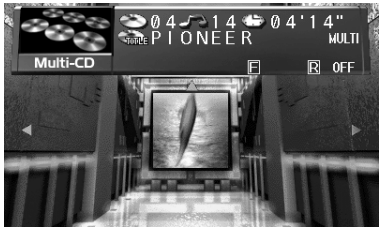
To Listen to Music

The following explains the initial operations required before you can listen to music. Initially, set the remote control's operation mode switch to "AUDIO". (Refer to "Setting the Remote Control for AV Receiver Operation" on page 19.) Also set the display's video source to RGB. (Refer to "Switching the Video Source" on page 26.)

1. Select the desired source (e.g. Multi-CD Player).



Each press changes the Source ...



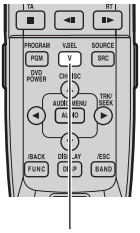
Each press of the SOURCE button selects the desired source in the following order:

DVD Player ➞ TV ➞ VIDEO ➞ Tuner ➞ MD Player ➞ CD Player ➞ Multi-CD Player ➞ External 1 ➞ External 2 ➞ AUX ➞ Speaker Input

Note:

- External Unit refers to a Pioneer product (such as one available in the future) that, although incompatible as a source, enables control of basic functions by this product. Two External Units can be controlled by this product, although "External" is displayed whether you select External Unit 1 or External Unit 2. When two External Units are connected, the allocation of them to External Unit 1 or External Unit 2 is automatically set by this product.
- In the following cases, the sound source will not change:
  - * When the sound source from another product is not connected to this product.
  - * When no magazine is set in the Multi-CD player.
  - * When no disc is set in the DVD player.
  - * When no disc is set in the CD player.
  - * When no disc is set in the MD player.
  - * When the AUX (auxiliary input), VIDEO and Speaker Input are set to OFF. (See pages 134, 135.)
- When this product's blue/white lead is connected to the car's Auto-antenna relay control terminal, the car's Auto-antenna extends when this product's source is switched ON. To retract the antenna, switch the source OFF.

2. Select the desired picture.



Each press changes the picture ...

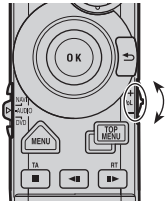
Each press of the V.SEL button selects the source in the following order:

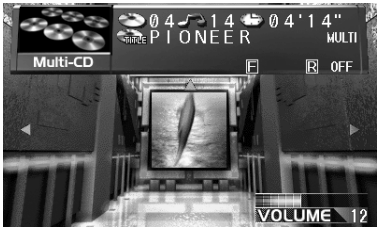
Source Screen → Navigation Unit (NAVI) → TV Tuner Unit (BGTV) → Video (BGVTR)

Note:

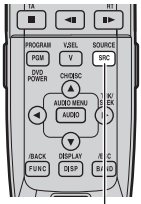
- Select “Source Screen” to hear/view playback of normal audio/video sources.
- You can select the Pioneer Navigation Unit only when that unit is switched on.
- You can select the TV Tuner Unit only when connecting it to this product. (The video source selected with the TV Tuner is displayed.)
- To select the VIDEO mode, switch the VIDEO mode ON in the Set Up Menu. (See page 33.)

3. Raise or lower the volume.





4. Turn the source OFF.



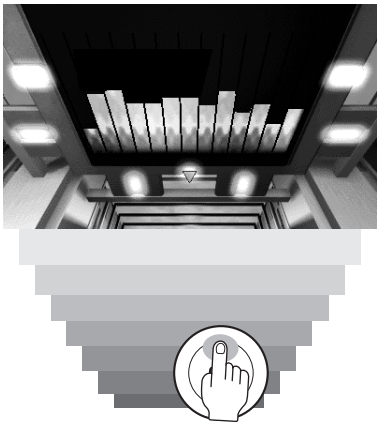
Hold for 1 second

When using the DVD player

You can switch on and off the DVD player independently from other units. Switching the AV Receiver off independently does not switch the DVD player off. You have to switch the DVD player off separately.

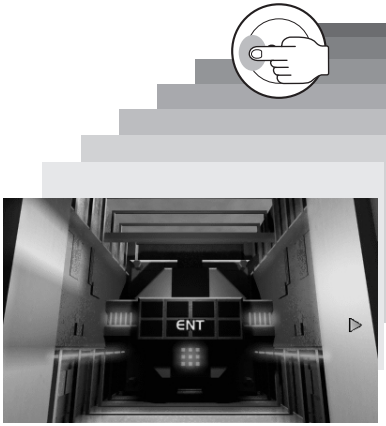
- If, while “DVD” is selected as source, you switch off the DVD player, you can confirm it on the display.

Virtual Theater Quick Tour

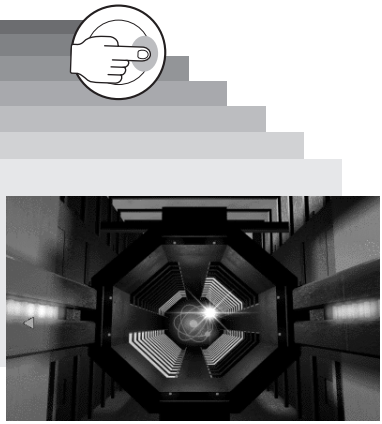


Move the joystick up to move in virtual space to the Spectrum Analyzer Room. The spectrum analyzer features a graph indicating the frequency of the sound currently in play.

When the power is turned on, the Center Room screen is displayed automatically. The screen appearing at the center of the room can be changed. (See page 133.)



Move the joystick left to move to the entrance of the Function Menu Screen. If you click the joystick, you switch to the Function Menu Screen. Further explanation on how to use the Function Menu Screen will follow.

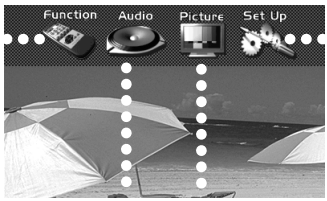


Move the joystick right to move to the Power Band Room. This screen provides a visual image of the volume settings. Click the joystick to change the power band display as below.

Monaural display ⇔ 4-band display

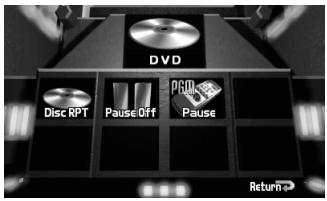
Menu Structure

The setting and adjusting operation of AV Receiver is done from the Main Menu. Press the MENU button, and four main menu icons appear on the screen: “Function”, “Audio”, “Picture” and “Set Up”. The selected function is highlighted in green. Move to each menu screen from this opening screen.

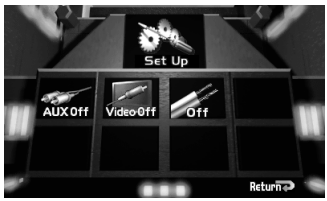


Animation

Animation



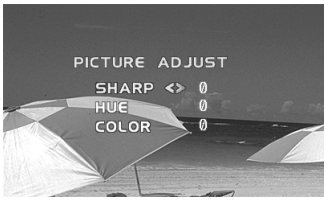
Select “Function”, then click the joystick to display the Function Menu Screen. The menu varies depending on the source.



Select “Set Up”, then click the joystick to display the Set Up Menu.

Animation

Select “Audio”, then click the joystick to display the Audio Setting Menu.



Select “Picture”, then click the joystick to display the Picture Adjust Menu.

- The Picture icon appears only when the selected source is a visual medium.

Returning to the Center Room

You can return to the Center Room after you are finished in any of the sub-rooms quite simply with either of 2 options. Either use the joystick to select the Return option in that rooms screen, then click the joystick, or simply press the RETURN button on the remote controller. In either case, you are brought back to the Center Room.

Click the joystick

Click the joystick means to press the center of the joystick down and release one time.

Information Screen

By pressing the DISPLAY button on this remote control unit you can show the title list, make changes to the Source Plate Information Screen, etc.

Switching the Information Screen

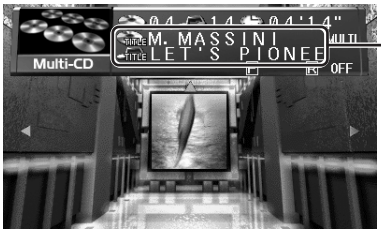
In the following, the Multi-CD Player is used as an example of source.

■ Multi-CD Player

Pressing the DISPLAY button switches the Information display on the Source Plate as follows. The title list appears on the plate and you can input disc titles here. You can also switch the titles displayed on the Flip-Down Plate.

DISP

Source Plate Display



Entered title is displayed.

■ When playing a CD TEXT disc
The Disc Title and Track Title are displayed.

Flip-Down Plate Display

■ When playing a CD TEXT disc
Pressing the DISPLAY button switches the display as follows:

1 **Track Title**
Disc Title
⬇
2 **Disc Artist Name**
Disc Title
⬇
3 **Track Artist Name**
Disc Title

No Plate

Note:
- If the Multi-CD Player in use is not CD TEXT compatible, you cannot access CD TEXT-specific display features.

■ Tuner

Source Plate Display
⬇
Flip-Down Plate Display
(Preset Frequency List)
⬇
Flip-Down Plate Display
(Radio Text Display)
⬇
No Plate

■ TV

Source Plate Display
⬇
No Plate

- For televisions, the Source Plate Display disappears after about 8 seconds.

■ DVD Player

Source Plate Display
⬇
No Plate

■ CD Player

Source Plate Display
⬇
Flip-Down Plate Display
⬇
No Plate

■ MD Player

Source Plate Display
⬇
No Plate

- Each press of the DISPLAY button switches the display on the Source Plate as follows:
  1. Disc Title
     Track Title
  2. Track Title
     Disc Title

  Pressing the DISPLAY button for 2 seconds scrolls the upper title.

■ External Devices

External Devices are VIDEO, AUX, Speaker Input and External Units.

Source Plate Display
⬇
No Plate

- For visual sources, the Source Plate Display disappears after about 8 seconds.

Using the Screen Pictures (Selecting the NAVI, VTR etc.)

Selecting the Navigation Picture

You can switch the picture (separately from the audio) of the Navigation to another source while listening to the sound from the current source.

Switch the power to your navigation unit ON before performing operations. (Refer to the navigation manual.)

- **Select the "NAVI" by pressing the V.SEL button.**

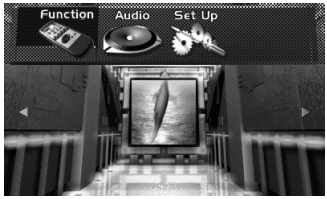
Note:
- You can select the Pioneer Navigation Unit only when that unit is switched on.
- If, while "NAVI" is selected as source, you switch off your navigation unit, you can confirm it on the display.

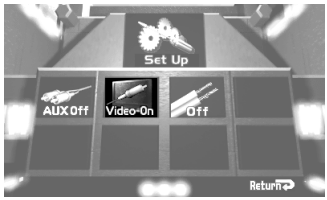
Selecting the Video Source

Switching the Video ON/OFF Mode

You can select the video unit when one is connected to the video input on the AV-Receiver. To select the Video mode, switch the Video in the Set Up Menu On.

1. **Press the MENU button.**
   The main menu icons whirl down, with "Function" highlighted in green.
2. **Select "Set Up" by moving the joystick.**
   "Set Up" is highlighted in green.
3. **Click the joystick.**
   The Set Up Menu appears.
4. **Select "Video" by moving the joystick.**
   "Video" is highlighted in green.
5. **Click the joystick.**
   Each click toggles Video On/Off.
6. **Press the RETURN button.**
   You go back to the Center Room.





Selecting the Video Source

You can enjoy video and audio entertainment from external components connected to video input.

Switch the power to your video unit ON before performing operations. (Refer to the video unit manual.)

- **Select "Video" by pressing the SOURCE button.**

Selecting the BGTV, BGVTR

You can switch the picture (separately from the audio) of the TV or Video to another source while listening to the sound from the current source.

Switch the power to your video unit ON before performing operations. (Refer to the video unit manual.)

- **Select "BGTV" or "BGVTR" by pressing the V.SEL button.**

Selecting the Picture to Rear Display

You can also enjoy video and audio entertainment from external components connected to video input on a rear display (sold separately).
This is only possible if a rear display is connected to the AV Receiver.

Switch the power to your video unit ON before performing operations.
(Refer to the video unit manual.)

- **Press the V.SEL button for 2 seconds.**

  Each press of the V.SEL button for 2 seconds selects the source in the following order:

  OFF → Link to Front Display Source (F.SRC) → Video (VTR)

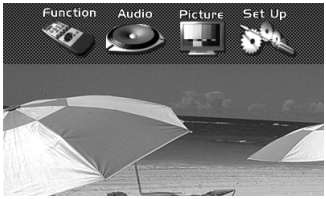
Note:

- The rear display will only display audiovisual sources (i.e. DVD player, TV Tuner, etc.). Audio only sources (MD, CD, FM/AM Tuner) cannot be heard from the rear display.
- You cannot switch rear display source audio and video separately.

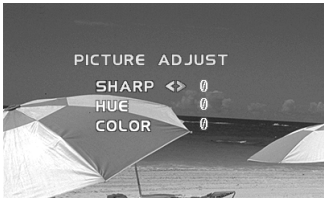
Adjusting the Picture

You can independently adjust Video, DVD and TV Tuner unit picture quality.
You can also make adjustments to the picture quality when viewing with the car courtesy light ON or OFF, and store both settings in memory.

1. **Select the desired source (picture) by pressing the SOURCE button.**
2. **Press the MENU button.**
   The main menu icons whirl down.
3. **Select "Picture" by moving the joystick right.**
   "Picture" is highlighted in green.
4. **Click the joystick.**
   The "PICTURE ADJUST" screen appears.

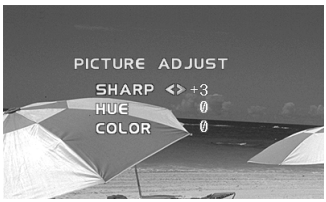


5. **Select an option by moving the joystick up/down.**
   The selected option is highlighted in yellow.
   You can adjust the selected option.



Option	Adjustment
SHARP	You can adjust the sharpness of the picture. • The display changes as the distinction of the picture changes from sharp to dull.
HUE	You can adjust the hue of the picture. • The display changes as the distinction of the picture changes from reddish to greenish.
COLOR	You can adjust the color of the picture. • The display changes as the distinction of the picture changes from light to dark.

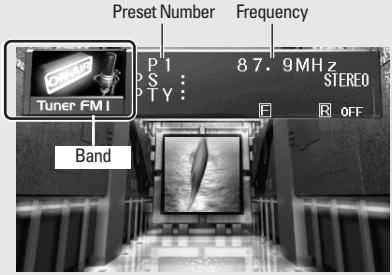
6. **Adjust the selected option by moving the joystick left/right.**
7. **Cancel the "PICTURE ADJUST" screen by pressing the RETURN button.**



Note:
- After entering the "PICTURE ADJUST" screen, if you do not perform an operation within about 30 seconds, the "PICTURE ADJUST" screen is automatically canceled.

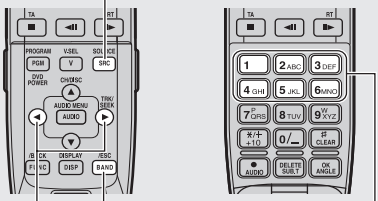
Built-In Tuner

Basics



Selecting the Tuner

Select the "Tuner" as source by pressing the SOURCE button as many times as necessary.



Preset Tuning

You can memorize broadcast stations in buttons 1 through 6 for easy, one-touch station recall.

Preset station recall	Less than 2 seconds
Broadcast station preset memory	More than 2 seconds

Note:

- Up to 18 FM stations (6 in FM1, FM2 and FM3) and 6 AM stations can be stored in memory.
- You can also use the ▲/▼ button to recall broadcast stations memorized in buttons 1 through 6.

Band

FM1 → FM2 → FM3 → AM

Manual and Seek Tuning

You can select the tuning method by changing the length of time you press the ◄/► button.

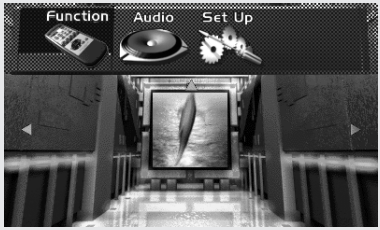
Manual Tuning (step by step)	Less than 0.5 seconds
Seek Tuning	More than 0.5 seconds

Note:

- If you continue pressing the button for longer than 0.5 seconds, you can skip broadcasting stations. Seek Tuning starts as soon as you release the button.
- Stereo indicator "STEREO" lights when a stereo station is selected.

Operation at the Function Menu Screen

Accessing the Tuner Function Menu



1. **Press the MENU button.**
   The main menu icons whirl down, with "Function" highlighted in green.
2. **Click the joystick.**
   The Tuner Function Menu appears, offering you the following options:

■ **FM Tuner Function Menu**

Local Seek Tuning
(See page 39.)

Best Stations Memory
(See page 39.)

PGM button
(See page 40.)

TA Function
(See page 40.)

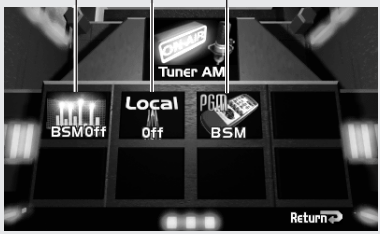
Seek Select
(See page 40.)

■ **AM Tuner Function Menu**

Local Seek Tuning
(See page 39.)

Best Stations Memory
(See page 39.)

PGM button
(See page 40.)



3. **Select the option by moving the joystick.**
   The selected option is highlighted in green.
4. **Click the joystick.**
   Refer to detailed operation of each function.

Exit from the Tuner Function Menu

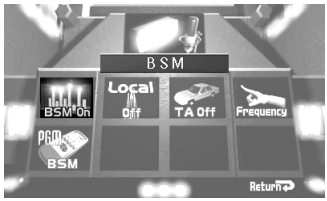
- **Press the RETURN button.**

Operating Each Function

Best Stations Memory (BSM)

The BSM function stores stations in memory automatically.

Select the band before performing operations. (See "Band" on page 37.)

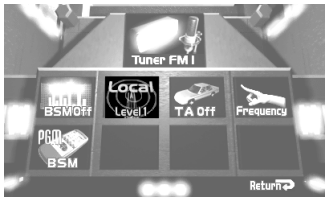


1. **Check to see "BSM" is currently highlighted.**
   If not, select that option by moving the joystick.
   "BSM" is highlighted in green.
2. **Click the joystick.**
   The "BSM Off" display changes to "BSM On".
   The stations with the strongest signals will be stored under buttons 1–6 and in order of their signal strength.

- **To Cancel the process, click the joystick before memorization is complete.**

Local Seek Tuning

When Local is ON, you can only select broadcast stations providing strong reception.



1. **Select "Local" by moving the joystick.**
   "Local" is highlighted in green.
2. **Click the joystick.**
   Each click selects the desired Local Seek Sensitivity in the following order:
   FM: Off → Level 1 → Level 2 → Level 3 → Level 4
   AM: Off → Level 1 → Level 2

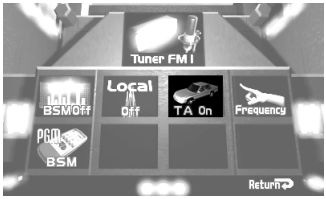
Note:

- The "Level 4" setting allows reception of only the strongest stations, while lower settings let you receive progressively weaker stations.

TA Function

You can switch TA (Traffic Announcements) on/off. (See page 45.)

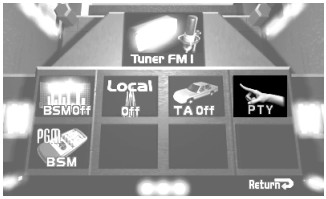
1. **Select "TA" by moving the joystick.**
   "TA" is highlighted in green.
2. **Click the joystick.**
   Each click toggles TA On/Off.



Seek Select

You can select seek mode between PTY search and Frequency search. (See page 43.)

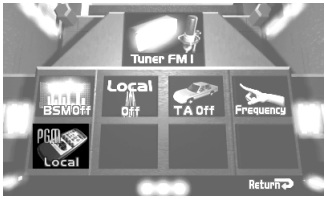
1. **Select "Seek Select Mode" by moving the joystick.**
   "Seek Select Mode" is highlighted in green.
2. **Click the joystick.**
   Each click toggles the PTY/Frequency.



PGM button

You can create a shortcut for BSM or Local Mode.
If you want to control the function of one of these, without needing to go to the Function Menu each time, do the following:

1. **Select "PGM" by moving the joystick.**
   "PGM" is highlighted in green.
2. **Click the joystick.**
   Each click changes the PGM mode in the following order:
   BSM → Local



Press the PGM button in the Tuner source

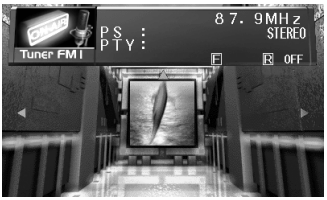
Function name (Display)	Press	Hold for 2 seconds
Best Stations Memory (BSM)	OFF	ON
Local Seek Tuning (Local)	Switch the Local Seek Sensitivity	———

Display the Flip-Down Plate

- **Press the DISPLAY button.**
  Each press of the DISPLAY button changes the Source Plate and Flip-Down Plate in the following order:
  Source Plate → Preset Frequency List → Radio Text Display → No Plate

Examples

Source Plate



Radio Text Display (FM band)

Preset Frequency List

Recalling Preset Stations by Preset Frequency List

1. **Press the DISPLAY button for the Preset Frequency List to appear.**
2. **Select the band by pressing the BAND button.**
3. **Select the preset station by moving the joystick up/down.**
   Selected station is highlighted.
4. **Click the joystick.**
   Selected station is indicated in yellow and tuned.

Using the RDS Functions

This product features a tuner with RDS functions.
RDS (Radio broadcast Data System) is a system that transmits broadcast station information together with FM programs.
You get display of Program Service Name and PTY (Program Type ID code), tuning to stations broadcasting a desired PTY, automatic tuning to traffic information, and emergency broadcasts and radio text display.

Note:
- The RDS service does not provide AM broadcast information.
- The RDS service may not be provided by all FM stations.

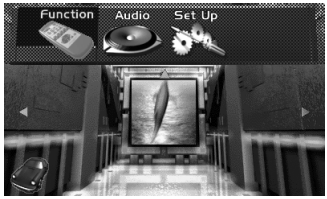
PTY Function

This product allows you to look for a station by PTY information (Program Type ID code). The information is divided into 8 types, such as ROCK, COUNTRY, NEWS and TALK.

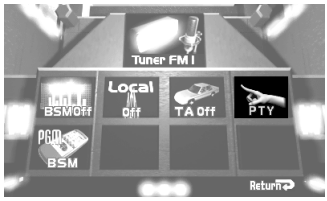
PTY	Corresponding PTY
ROCK	TOP 40
	CLS ROCK
	ROCK
	SFT ROCK
EASY LIS	SOFT
	ADLT HIT
	OLDIES
CLS/JAZZ	CLASSICL
	JAZZ
	NOSTALGA
	PUBLIC
COUNTRY	COUNTRY
R & B	R AND B
	SOFT R/B
INFO	SPORTS
	NEWS
	TALK
	INFORM
	PERSNLTY
RELIGION	REL MUSC
	REL TALK
MISC	LANGUAGE
	MISC

Searching the PTY

1. **Press the MENU button.**
   The main menu icons whirl down, with “Function” highlighted in green.
2. **Click the joystick.**
   The Tuner Function Menu appears.

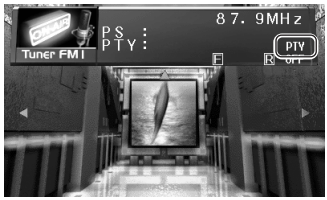


3. **Select “Seek Select Mode” by moving the joystick.**
   “Seek Select Mode” is highlighted in green.
4. **Click the joystick.**
   Each click toggles the PTY/Frequency.

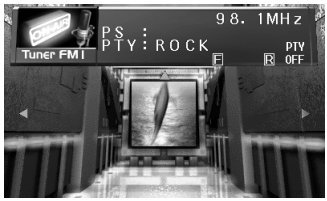


5. **Press the RETURN button.**

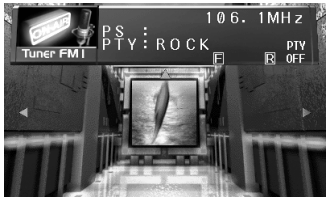
   Note:
   - To search for the same PTY as the currently received broadcast station, perform step 7 only.



6. **Select a PTY by pressing the ▲/▼ button.**
   A station broadcasting a program with a different PTY from the PTY of the currently received broadcast station is selected.



7. **Select a station by pressing the ◄/► button.**
   A station broadcasting a program with the same PTY as the currently received broadcast station is selected.



Note:
- If a PTY code of zero is received from a station, “NONE” will be displayed. This indicates that the station has not defined its program contents.
- The program of some stations may differ from that indicated by the transmitted PTY.
- If no station broadcasting the selected programming type is found, “NOT FOUND” is displayed for about 2 seconds, and the tuner returns to the original station.

PTY Alarm

The PTY Alarm function automatically lets you hear broadcasts of emergency announcements concerning natural disasters and other emergencies, regardless of the source you are listening to.

- **If the tuner receives a radio alarm code, "ALARM" is indicated in the display, and the tuner switches to reception of an emergency announcement.**

  Note:
  - The system switches back to the original source following emergency announcement reception.
  - In sources other than tuner, the tuner automatically seeks out the RDS station with the strongest signal in the current area 10 seconds after RDS station reception has become impossible. (This function does not operate when the TA function is active.)

Canceling Announcements

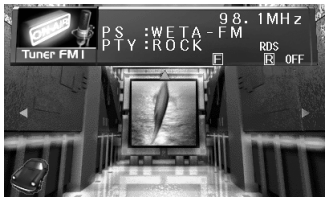
- **Press the SOURCE button during announcement reception to cancel the announcement and return to the original source.**

TA Function

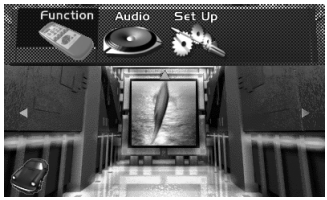
The TA (Traffic Announcement standby) function lets you receive traffic announcements automatically, no matter what source you are listening to. The TA function can be activated for a TP station (a station that broadcasts traffic information).

Activating/Deactivating the TA Function

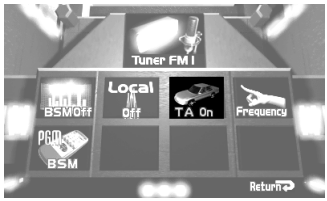
1. **Tune in a TP station by pressing the ◄/► button.**
   The Car icon lights when the tuner is tuned to a TP station.



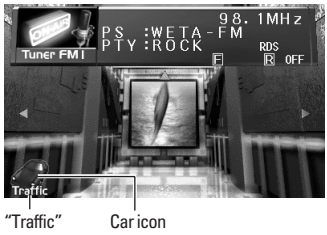
2. **Press the MENU button.**
   The main menu icons whirl down, with "Function" highlighted in green.
3. **Click the joystick.**
   The Tuner Function Menu appears.



4. **Select "TA" by moving the joystick.**
   "TA" is highlighted in green.
5. **Activate the TA function by clicking the joystick.**
   Each click toggles TA On/Off.



6. **Press the RETURN button.**
   You go back to the Center Room.
   The "Traffic" indicator lights, indicating that the tuner is waiting for traffic announcements.
   Repeat the preceding operation when no traffic announcement is being received to deactivate the TA function.



Note:

- The system switches back to the original source following traffic announcement reception.
- The TA function can be activated from sources other than tuner if the tuner was last set to the FM band but not if it was last set to the AM band.
- In sources other than tuner, the tuner automatically seeks out the TP station with the strongest signal in the current area 10 seconds after the Car icon disappears from the display. (During seek operation, Car icon disappears.)
- Only TP stations are tuned in during the Seek Tuning mode when the “Traffic” indicator is ON.
- Only TP stations are stored by BSM when the “Traffic” indicator is ON.
- You can also switch TA on/off without needing to go to the Function Menu each time by pressing the TA button.

Canceling Traffic Announcements

- **Press the SOURCE button while a traffic announcement is being received to cancel the announcement and return to the original source.**

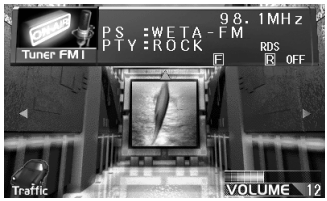
  The announcement is canceled but the tuner remains in the TA mode until the TA function is deactivated.

Adjusting the TA Volume

When a traffic announcement begins, the volume adjusts automatically to a preset level to enable you to hear the announcement clearly.

- **Set the volume by adjusting it by moving the VOLUME up/down during reception of a traffic announcement.**

  The newly set volume is stored in memory and recalled for subsequent traffic announcements.



Radio Text

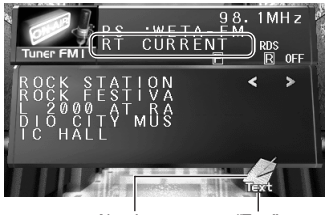
This tuner can display Radio Text data transmitted by RDS stations, such as station information, the name of the currently broadcast song and the name of the artist.

Note:
- When an RDS station is received, the "RDS" indicator lights.
- When Radio Text is received, the "Text" indicator and Note icon light.
- The tuner automatically memorizes the three latest Radio Text broadcasts received, replacing text from the least recent reception with new text when it is received.
- You can store data from up to six Radio Text transmissions in buttons 1–6.
- You can also switch to the Radio Text Display by pressing the DISPLAY button. (Refer to "Display the Flip-Down Plate" on page 41.)

Radio Text display

1. Press the RT button if the RDS indicator is On.

Flip-Down Plate displaying Radio Text Display appears.



Note icon "Text"

Note:
- Press the RT button once more, and the Radio Text mode is canceled.
- When no Radio Text is currently being received, "NO TEXT" is displayed.

2. Select either " ◀ " or " ▶ " by moving the joystick left/right.

3. Click the joystick.

Each click switches the three Radio Text data display left or right.

Note:
- If there is no Radio Text data stored in the tuner, the function does not operate.

Storing Radio Text in memory

1. **Perform "Radio Text display" steps 1–3, and then select the Radio Text you want to store in memory.**

2. **Press one of buttons 1 – 6 for 2 seconds to store the desired Radio Text. (e.g. Press button 4 for 2 seconds.)**
   The Radio Text is stored in memory under the selected button.

Recalling preset Radio Text

1. **Press the RT button.**
   Flip-Down Plate displaying Radio Text appears.

2. **Press one of buttons 1 – 6 to recall a Radio Text preset under that button. (e.g. Press button 4.)**

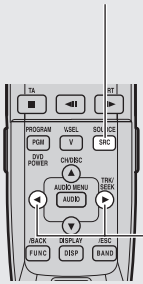
DVD Player (Control with AV Receiver)

Basics

Selecting the DVD player

Select the "DVD" as source by pressing the SOURCE button as many times as necessary.

The player starts playing automatically.



Chapter (Track) Search and Fast Forward/Reverse

You can select between Chapter (Track) Search or Fast Forward/Reverse by pressing the ◄/► button for a different length of time.

Chapter (Track) Search	Less than 0.5 seconds
Fast Forward/Reverse	Continue pressing

Note:

- Although DVD and Video CD images cannot be seen on screen while driving, all functions of the DVD player can be operated. (Audio can be heard.)
- You can use DVD player to play DVDs, Video CDs, and CDs.
- The AV Receiver may not be available to operate the DVD player momentarily depending on discs and the playing status.

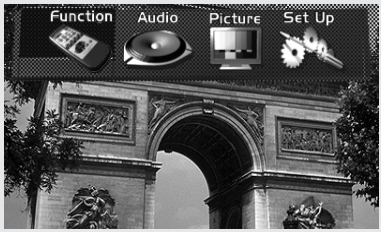
Operation at the Function Menu Screen (DVD, Video CD)

With DVD player, the Function Menu differs for playing DVDs, Video CDs and CDs. When playing CDs, refer to "Operation at the Function Menu Screen (CD)". (See page 53.)

Accessing the DVD Function Menu (DVD, Video CD)

Begin play of a disc before selecting options from the DVD Function Menu.

1. **Press the MENU button.**
   The main menu icons whirl down, with "Function" highlighted in green.
2. **Click the joystick.**
   The DVD Function Menu appears, offering you the following options:

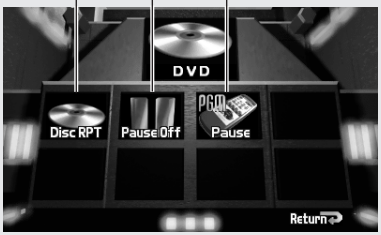


■ **DVD Function Menu (DVD, Video CD)**

Pause
(See page 51.)

Repeat Play
(See page 51.)

PGM button
(See page 52.)



3. **Select the option by moving the joystick.**
   The selected option is highlighted in green.
4. **Click the joystick.**
   Refer to detailed operation of each function.

Exit from the DVD Function Menu (DVD, Video CD)

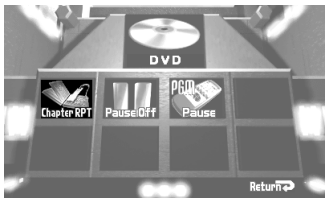
- **Press the RETURN button.**

Operating Each Function

Repeat Play

You can select the desired repeat mode play range from the chapter (track), title or disc currently in play.

1. **Check to see "RPT" is currently highlighted.**
   If not, select that option by moving the joystick.
   "RPT" is highlighted in green.
2. **Click the joystick.**
   Each click changes repeat range in the following order:



Source plate

Repeat range

■ DVD

Disc RPT → Chapter RPT → Title RPT

Display	Repeat range
Chapter RPT	Chapter Repeat
Title RPT	Title Repeat
Disc RPT	Disc Repeat

■ Video CD

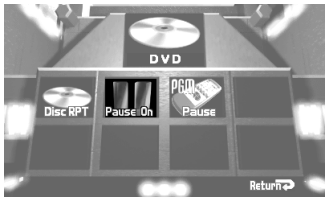
Disc RPT → Track RPT

Display	Repeat range
Track RPT	Track Repeat
Disc RPT	Disc Repeat

Pause

Pause pauses the currently playing track.

1. **Select "Pause" by moving the joystick.**
   "Pause" is highlighted in green.
2. **Click the joystick.**
   Each click toggles the Pause On/Off.

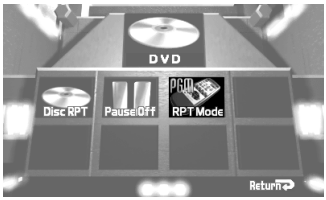


PGM button

You can create a shortcut for Pause or Repeat Play Mode.
If you want to control the function of one of these, without needing to go to the Function Menu each time, do the following:

1. **Select "PGM" by moving the joystick.**
   "PGM" is highlighted in green.
2. **Click the joystick.**
   Each click changes the PGM mode in the following order:

   Pause → RPT Mode



Press the PGM button when playing a DVD or Video CD in the DVD source

Function name (Display)	Press	Hold for 2 seconds
Pause (Pause)	ON/OFF	———
Repeat play (RPT Mode)	Switch repeat range	———

Operation at the Function Menu Screen (CD)

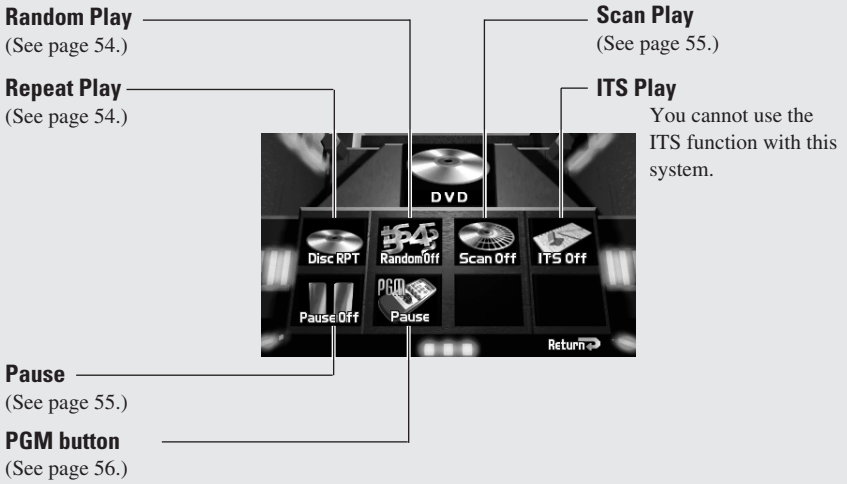
With DVD player, the Function Menu differs for playing DVDs, Video CDs and CDs. When playing DVDs and Video CDs, refer to "Operation at the Function Menu Screen (DVD, Video CD)". (See page 50.)

Accessing the DVD Function Menu (CD)

Begin play of a disc before selecting options from the DVD Function Menu.

1. **Press the MENU button.**
   The main menu icons whirl down, with "Function" highlighted in green.
2. **Click the joystick.**
   The DVD Function Menu appears, offering you the following options:

■ **DVD Function Menu (CD)**



3. **Select the option by moving the joystick.**
   The selected option is highlighted in green.
4. **Click the joystick.**
   Refer to detailed operation of each function.

Exit from the DVD Function Menu (CD)

- **Press the RETURN button.**

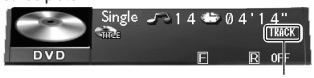
Repeat Play

Repeat Play plays the same disc and track repeatedly.

1. **Check to see "RPT" is currently highlighted.**
   If not, select that option by moving the joystick.
   "RPT" is highlighted in green.
2. **Click the joystick.**
   Each click changes the Repeat mode in the following order:

   Disc RPT → Track RPT

Source plate



Repeat range

Display	Repeat range
Track RPT	Track repeat
Disc RPT	Disc repeat

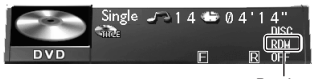
Note:
- If you perform Track Search, Repeat Play is automatically canceled.

Random Play

Random Play plays the tracks on a CD in random order for variety.

1. **Select "Random" by moving the joystick.**
   "Random" is highlighted in green.
2. **Click the joystick.**
   Each click toggles the Random On/Off.

Source plate



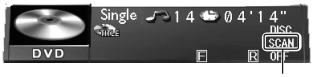
Random

Scan Play

Scan Play plays the first 10 seconds or so of each track on a CD in succession.

1. **Select "Scan" by moving the joystick.**
   "Scan" is highlighted in green.
2. **Switch the Scan Play On by clicking the joystick.**
3. **When you find the desired track, cancel the Scan Play by clicking the joystick.**
   If the Function Menu has been canceled automatically, select the "Scan" in the Function Menu again.

Source plate



Scan

Note:

- Scan Play is canceled automatically after all the tracks on a disc have been scanned.

Pause

Pause pauses the currently playing track.

1. **Select "Pause" by moving the joystick.**
   "Pause" is highlighted in green.
2. **Click the joystick.**
   Each click toggles the Pause On/Off.

PGM button

You can create a shortcut for Pause, RPT or Random Mode.
If you want to control the function of one of these, without needing to go to the Function Menu each time, do the following:

1. **Select “PGM” by moving the joystick.**
   “PGM” is highlighted in green.
2. **Click the joystick.**
   Each click changes the PGM mode in the following order:

   Pause → RPT Mode → Random → ITS*

Note

- You cannot use the ITS function with this system. If you select ITS, nothing will happen even if you press the PGM button.

Press the PGM button when playing a CD in the DVD source

Function name (Display)	Press	Hold for 2 seconds
Pause (Pause)	ON/OFF	———
Repeat play (RPT Mode)	Switch repeat range	———
Random play (Random)	ON/OFF	———

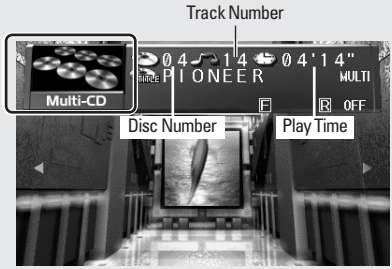
Multi-CD Player

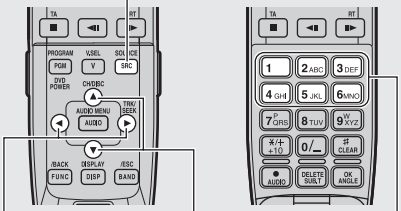
Basics

Selecting the Multi-CD Player

Select the "Multi-CD" as source by pressing the SOURCE button as many times as necessary.

The player starts playing automatically.





Disc Number Search (for 6-Disc, 12-Disc types)

You can select discs directly with the 1 to 6 buttons. Just press the number corresponding to the disc you want to listen to.

Note:

- When a 12-Disc Multi-CD Player is connected and you want to select disc 7 to 12, press the 1 to 6 buttons for 2 seconds.

Disc Search

Track Search and Fast Forward/Reverse

You can select between Track Search or Fast Forward/Reverse by pressing the ◄/► button for a different length of time.

Track Search	Less than 0.5 seconds
Fast Forward/Reverse	Continue pressing

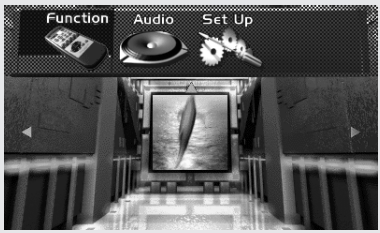
Note:

- The Multi-CD player may perform a preparatory operation, such as verifying the presence of a disc or reading disc information, when the power is turned ON or a new disc is selected for playback. "READY" is displayed.
- If the Multi-CD player cannot operate properly, an error message such as "ERROR-14" is displayed. Refer to the Multi-CD player owner's manual.
- If there are no discs in the Multi-CD player magazine, "NO DISC" is displayed.

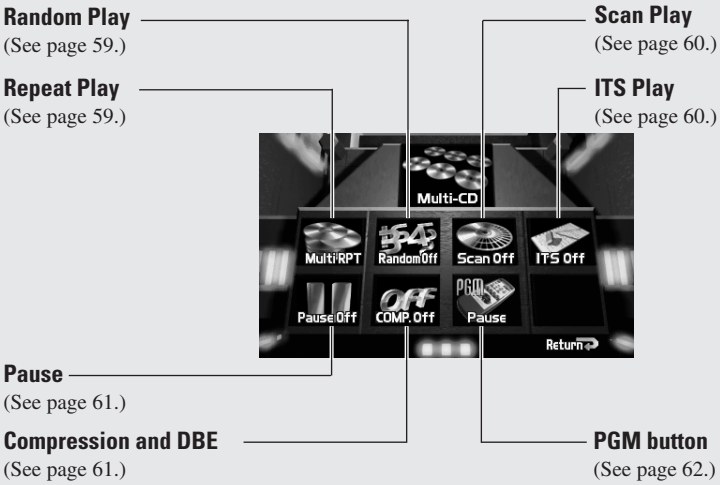
Operation at the Function Menu Screen

Accessing the Multi-CD Function Menu

1. **Press the MENU button.**
   The main menu icons whirl down, with "Function" highlighted in green.
2. **Click the joystick.**
   The Multi-CD Function Menu appears offering you the following options:



■ **Multi-CD Function Menu**



3. **Select the option by moving the joystick.**
   The selected option is highlighted in green.
4. **Click the joystick.**
   Refer to detailed operation of each function.

Exit from the Multi-CD Function Menu

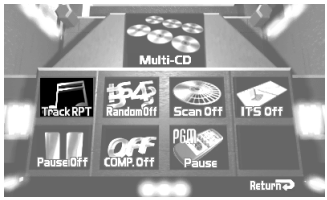
- **Press the RETURN button.**

Operating Each Function

Repeat Play

There are three repeat play ranges: One-track Repeat, Disc Repeat and Multi-CD player Repeat. Default repeat play range is Multi-CD player Repeat.

1. **Check to see "RPT" is currently highlighted.**
   If not, select that option by moving the joystick.
   "RPT" is highlighted in green.
2. **Click the joystick.**
   Each click changes the Repeat mode in the following order:
   Multi RPT → Track RPT → Disc RPT



Source plate

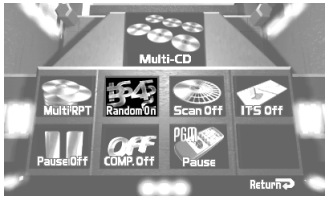
Repeat range

Display	Repeat range
Track RPT	One-track Repeat
Disc RPT	Disc Repeat
Multi RPT	Multi-CD player Repeat

Random Play

Tracks are played at random within the selected repeat play range as explained in "Repeat Play" above.

1. **Select "Random" by moving the joystick.**
   "Random" is highlighted in green.
2. **Click the joystick.**
   Each click toggles Random play On/Off.
   After selecting the desired repeat play range from those referred to in "Repeat Play" above, switch Multi-CD Player Random Play ON.



Source plate

Random Play range

Display	Play range
DISC RDM	Disc Repeat
MULTI RDM	Multi-CD player Repeat

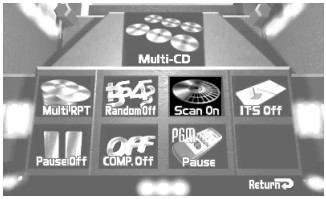
Note:

- One-track Repeat changes to the Disc Repeat when you switch the Random Play ON.

Scan Play

In the Disc Repeat, the beginning of each track on the selected disc is scanned for about 10 seconds. In the Multi-CD player Repeat, the beginning of the first track on each disc is scanned for about 10 seconds.

1. **Select "Scan" by moving the joystick.**
   "Scan" is highlighted in green.
2. **Switch the Scan Play ON by clicking the joystick.**
   After selecting the desired repeat play range from those referred to in "Repeat Play" on page 59, switch Multi-CD Player Scan Play ON.
3. **When you find the desired track (or disc), cancel the Scan Play by clicking the joystick.**
   If the Function Menu has been canceled automatically, select the "Scan" in the Function Menu again.



Source plate

Scan Play range

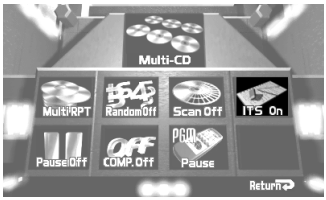
Display	Play range
DISC SCAN	Disc Repeat
MULTI SCAN	Multi-CD player Repeat

Note:
- Scan Play is canceled automatically after all the tracks or discs have been scanned.
- One-track Repeat changes to the Disc Repeat when you switch the Scan Play ON.

ITS Play

ITS Play plays the memorized track. (Refer to "ITS Programming (ITS)" on page 65.) ITS play of tracks is performed within the play range explained in the "Repeat Play" section.

1. **Select "ITS" by moving the joystick.**
   "ITS" is highlighted in green.
2. **Click the joystick.**
   Each click toggles ITS play On/Off.
   After selecting the desired repeat play range from those referred to in "Repeat Play" on page 59, switch ITS Play ON.



Source plate

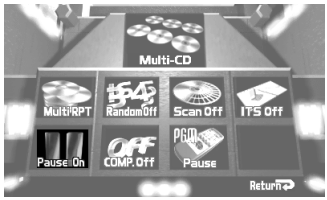
ITS Play

Note:
- If no track in the current range is programmed for ITS Play, "Empty" is displayed.

Pause

Pause pauses the currently playing track.

1. **Select "Pause" by moving the joystick.**
   "Pause" is highlighted in green.
2. **Click the joystick.**
   Each click toggles Pause On/Off.



Compression and DBE

Using the COMP (Compression) and DBE (Dynamic Bass Emphasis) functions enables Multi-CD player sound quality adjustment. Each of the functions enables two-step adjustment.

■ COMP

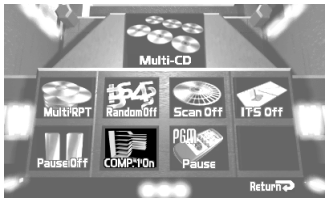
The COMP (Compression) function adjusts imbalances between loud and subdued sounds at higher volumes.

■ DBE

DBE (Dynamic Bass Emphasis) boosts bass levels to give a fuller sound.

COMP/DBE ON/OFF Switching

1. **Select "COMP." by moving the joystick.**
   "COMP." is highlighted in green.
2. **Click the joystick.**
   Each click changes the mode in the following order:
   COMP. Off → COMP. 1 → COMP. 2 → COMP. Off → D.B.E. 1 → D.B.E. 2



Note:

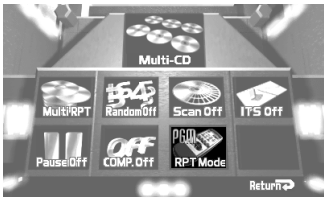
- You can use these functions with a Multi-CD player that has them. If the player does not feature the COMP/DBE functions, "No COMP" is displayed in "COMP.".

PGM button

You can create a shortcut for Pause, RPT, Random or ITS mode.
If you want to control the function of one of these, without needing to go to the Function Menu each time, do the following:

1. **Select "PGM" by moving the joystick.**
   "PGM" is highlighted in green.
2. **Click the joystick.**
   Each click changes the PGM mode in the following order:

   Pause ➞ RPT Mode ➞ Random ➞ ITS



Press the PGM button in the Multi-CD source

Function name (Display)	Press	Hold for 2 seconds
Pause (Pause)	ON/OFF	———
Repeat play (RPT Mode)	Switch repeat range	———
Random play (Random)	ON/OFF	———
ITS play (ITS)	ON/OFF	———

Display the Flip-Down Plate

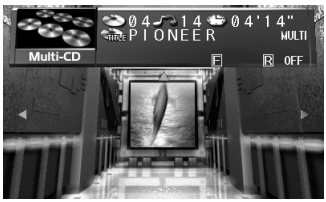
You can display input titles and titles recorded on CD TEXT compatible CDs.
For CD TEXT, up to 12 letters of a title can be seen at a time. If the title is longer than 12 letters, the remaining letters can be viewed by scrolling.

- **Press the DISPLAY button.**
  Each press of the DISPLAY button changes the Source Plate and Flip-Down Plate in the following order:

  Source Plate ➞ Disc Title List ➞ No Plate

Examples

Source Plate



Disc Title List

Note:
- If a disc title has not been input, "NO TITLE" is displayed.
- For numbers that do not have a disc, no title is shown.

Disc Title Input

You can input Titles up to 10 letters long for up to 100 discs. Using this function lets you easily search for and select a desired disc for play. (You can store ITS program and Disc Title data for up to 100 discs in memory.)

Note:
- When playing a CD TEXT disc on a CD TEXT compatible Multi-CD player, you cannot switch to this mode.
- A CD TEXT disc is a CD featuring recorded text information such as Disc Title, Artist Name and Track Title.
- Don't click the joystick to confirm your entry of title. Doing so cancels the title and you must start from the beginning.

1. **Press the DISPLAY button for the Flip-Down Plate to appear.**
2. **Play the disc you wish to input the disc title.**
3. **Select "Title Edit" by moving the joystick.**
   "Title Edit" is highlighted in green.

4. **Click the joystick.**
   "Title Edit" is highlighted in yellow and the display changes to show the left most character position highlighted.
5. **Select the desired character type by pressing the button 1.**
   Each press of button 1 changes the character type in the following order:

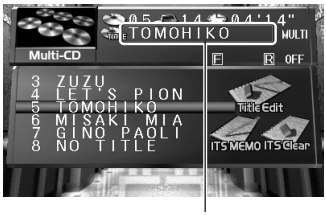
   Alphabet (Upper case), Numbers and Symbols → Alphabet (Lower case)

Note:
- You can select to input Numbers and Symbols by pressing button 2.

6. **Select letters, numbers and symbols by moving the joystick up/down.**
   To insert a space, select the cursor "_".

7. **Move the box left and right by moving the joystick left/right.**

8. **When you have completed title input, move to the 10th letter position, then memorize by moving the joystick right.**



Note:
- Titles remain in memory, even after the disc has been removed from the magazine, and are recalled when the disc is reinserted.
- After the titles for 100 discs have been entered, data for a new disc will overwrite the data for the disc that has not been played back for the longest time.

Getting Text Displayed (for CD TEXT compatible type)

You can use these functions when playing a CD TEXT disc on a CD TEXT compatible Multi-CD player.

Title Display Switching

- **Select the desired title display by pressing the DISPLAY button.**
  Refer to “Information Screen” on page 31.

Note:
- If certain text information is not recorded on a CD TEXT disc, “NO TITLE” is displayed.

Title Scroll

This product displays the first 12 letters only of Disc Title, Artist Name and Track Title. With text longer than 12 letters, you can see the rest of the text by scrolling.

- **Scroll the upper title display by pressing the DISPLAY button for 2 seconds.**

Selecting Discs by Disc Title List

Follow the procedures below to play a disc for which you have input the title in a Multi-CD player or a CD TEXT disc on a CD TEXT compatible Multi-CD player.

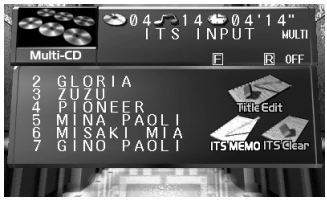
1. **Press the DISPLAY button for the Flip-Down Plate to appear.**
2. **Select the desired disc title by moving the joystick up/down.**
   "NO TITLE" is displayed for disc whose titles have not been input.
3. **Click the joystick.**
   The selected disc is indicated in yellow and begins play.

ITS (Instant Track Selection)

The ITS function allows you to search for the track you wish to play. You can use ITS to enter and playback up to 99 tracks per disc, up to 100 discs (with the disc title). (With multi-CD players sold before the CDX-P1250 and CDX-P650, up to 24 tracks can be stored in the playlist.)

ITS Programming (ITS)

Programmed tracks are played within the selected repeat play range in the "Repeat Play" on page 59.



1. **Press the DISPLAY button for the Flip-Down Plate to appear.**
2. **Play the track you wish to program.**
3. **Select "ITS MEMO" by moving the joystick.**
   "ITS MEMO" is highlighted in green.
4. **Click the joystick.**
   The currently playing track is stored.

Note:

- After 100 discs have been programmed, data for a new disc will overwrite the data for the disc that has not been played back for the longest time.

Erase a Track Program

1. **Press the DISPLAY button for the Flip-Down Plate to appear.**
2. **Select the track you wish to erase, during ITS Play.**
3. **Select "ITS Clear" by moving the joystick.**
   "ITS Clear" is highlighted in green.
4. **Click the joystick.**
   Erase the track program and playback of the next ITS-programmed track begins. If there are no more programmed tracks in the current range, "ITS EMPTY" is displayed and normal play resumes.

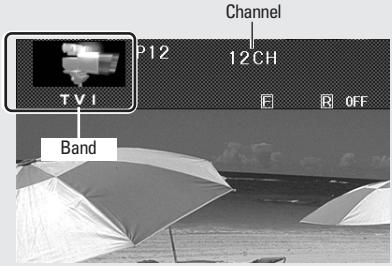
Erase a Disc Program

1. **Press the DISPLAY button for the Flip-Down Plate to appear.**
2. **Select the disc you wish to erase, while the disc is playing.**
3. **Select "ITS Clear" by moving the joystick.**
   "ITS Clear" is highlighted in green.
4. **Click the joystick.**
   Erase the disc program.

TV Tuner

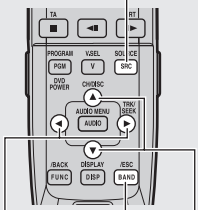
The following explains how to use this product to control TV tuners. For details of TV tuner-specific operations/features, see your TV tuner's manual.

Basics



Selecting the TV Tuner

Select the "TV Tuner" as source by pressing the SOURCE button as many times as necessary.



Preset Memory and Direct Recall

You can memorize broadcast stations in buttons 1 through 6 for easy, one-touch station recall.

Direct recall	Less than 2 seconds
Broadcast station preset memory	More than 2 seconds

Note:

- Up to 12 stations (6 in TV1 and TV2) can be stored in memory.
- You cannot memorize in Preset Channels 7–12 with this function.

Preset Tuning

You can recall memorized stations.

Band

TV1 → TV2

Manual and Seek Tuning

You can select the tuning method by changing the length of time you press the ◄/► button.

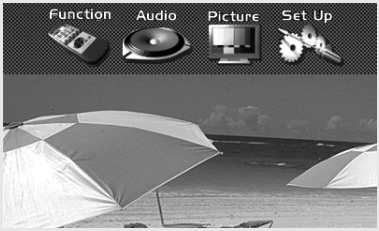
Manual Tuning (step by step)	Less than 0.5 seconds
Seek Tuning	More than 0.5 seconds

Note:

- If you continue pressing the button for longer than 0.5 seconds, you can skip broadcasting stations. Seek Tuning starts as soon as you release the button.

Operation at the Function Menu Screen

Accessing the TV Tuner Function Menu



1. **Press the MENU button.**
   The main menu icons whirl down, with "Function" highlighted in green.

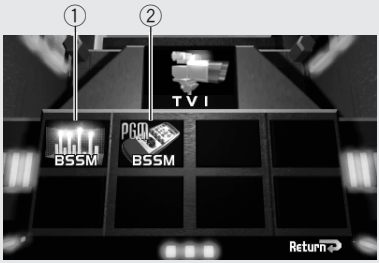
2. **Click the joystick.**
   The TV Tuner Function Menu appears, offering you the following options:

3. **Select the option by moving the joystick and click the joystick.**
   The selected option is highlighted in green.

■ TV Tuner Function Menu

① Best Station Sequential Memory (BSSM)
Switch the BSSM ON by clicking the joystick.

② PGM button
For TV, you cannot memorize functions other than BSSM in the PGM button.



Exit from the TV Tuner Function Menu

- **Press the RETURN button.**

CD Player

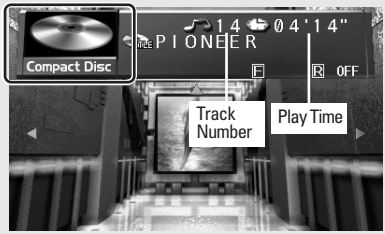
The following explains how to use this product to control CD players. For details of CD player-specific operations/features, see your CD player's manual.

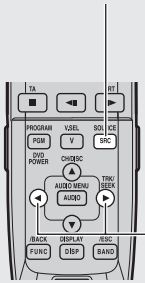
Basics

Selecting the CD Player

Select the "Compact Disc" as source by pressing the SOURCE button as many times as necessary.

The player starts playing automatically.





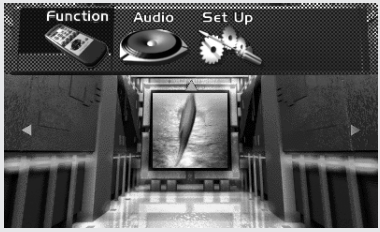
Track Search and Fast Forward/Reverse

You can select between Track Search or Fast Forward/Reverse by pressing the ◄/► button for a different length of time.

Track Search	Less than 0.5 seconds
Fast Forward/Reverse	Continue pressing

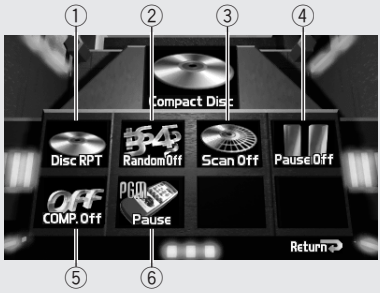
Operation at the Function Menu Screen

Accessing the CD Function Menu



1. **Press the MENU button.**
   The main menu icons whirl down,with "Function" highlighted in green.
2. **Click the joystick.**
   The CD Function Menu appears, offering you the following options:
3. **Select the option by moving the joystick and click the joystick.**
   The selected option is highlighted in green.

■ CD Function Menu



① **Repeat Play**
Each click changes the Repeat mode in the following order:
Disc RPT (Disc Repeat) → Track RPT (Track Repeat)

② **Random Play**
Each click toggles Random play On/Off.

③ **Scan Play**
Each click toggles Scan play On/Off.

④ **Pause**
Each click toggles Pause On/Off.

⑤ **Compression and DBE**
Each click changes the COMP in the following order:
COMP. Off → COMP. 1 → COMP. 2 → COMP. Off → D.B.E. 1 → D.B.E. 2

⑥ **PGM button**
Each click changes the PGM mode in the following order:
Pause → RPT Mode → Random

Disc Title Input

For detail operation to enter titles, refer to "Disc Title Input" on page 63.

Exit from the CD Player Function Menu

- **Press the RETURN button.**

MD Player

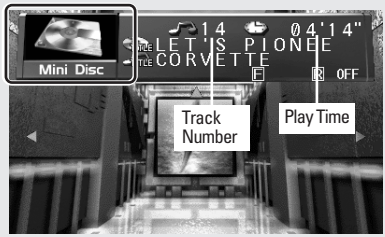
The following explains how to use this product to control MD players. For details of MD player-specific operations/features, see your MD player's manual.

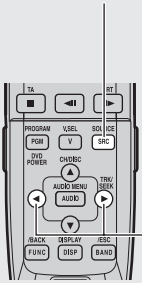
Basics

Selecting the MD Player

Select the "Mini Disc" as source by pressing the SOURCE button as many times as necessary.

The player starts playing automatically.





Track Search and Fast Forward/Reverse

You can select between Track Search or Fast Forward/Reverse by pressing the ◄/► button for a different length of time.

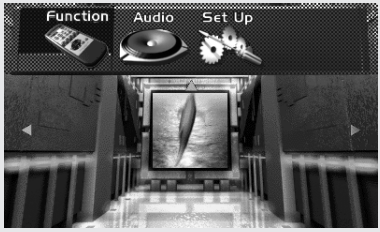
Track Search	Less than 0.5 seconds
Fast Forward/Reverse	Continue pressing

Note:

- If "TEMP" is displayed, look it up (or "HEAT") in the error message table in the MD Player's manual.

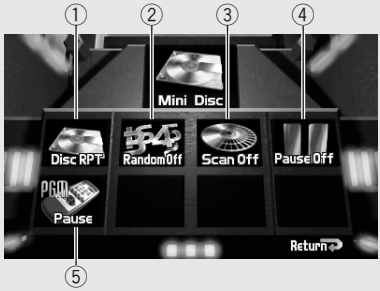
Operation at the Function Menu Screen

Accessing the MD Function Menu



1. **Press the MENU button.**
   The main menu icons whirl down with "Function" highlighted in green.
2. **Click the joystick.**
   The MD Function Menu appears, offering you the following options:
3. **Select the option by moving the joystick and click the joystick.**
   The selected option is highlighted in green.

■ MD Function Menu



① **Repeat Play**
Each click changes the Repeat mode in the following order:
Disc RPT (Disc Repeat) → Track RPT (One-track Repeat)

② **Random Play**
Each click toggles Random play On/Off.

③ **Scan Play**
Each click toggles Scan play On/Off.

④ **Pause**
Each click toggles Pause On/Off.

⑤ **PGM button**
Each click changes the PGM mode in the following order:
Pause → RPT Mode → Random

Switching the Title Positions

You can switch the display position of the Disc Title and Track Title. Also with text longer than 12 letters, you can see the rest of the text by scrolling. (Refer to "Information Screen" on page 31.)

Exit from the MD Function Menu

- **Press the RETURN button.**

Basic Operations of DVD Player

Selecting the DVD

1. **Press the SOURCE button.**
   Press repeatedly until DVD is selected, and the disc starts playing. (See page 49.)

   Note:
   - If you were previously playing a DVD, playback of that disc resumes from where you left off.
   - With some discs, a menu may be displayed. (See page 74.)

2. **Set the remote control's operation mode switch to "DVD".**
   (Refer to "Setting the Remote Control for DVD Player Operation" on page 20.)

IP AUTO Mode

- When power to DVD Player is switched OFF, you can switch the IP AUTO mode ON/OFF by pressing the POWER button for two seconds.
  When the IP AUTO mode is ON, if a disc is loaded in DVD player, the AV Receiver automatically switches the source to DVD Player.
  If the IP AUTO mode is OFF, even if there is a disc loaded in DVD player, the AV Receiver will not switch the source to DVD Player.
  When using DVD Player mainly as a REAR SEAT ENTERTAINMENT SYSTEM, you are recommended to switch the IP AUTO mode OFF.
- When the IP AUTO mode is ON, [A] is indicated in the Display Setting Menu.
  In the initial settings, the IP AUTO mode is switched ON.

When using a rear display

- Even if the source selected with the AV Receiver is not DVD, if you switch power to DVD Player ON with the POWER button, you can watch the DVD picture from DVD Player on the rear display.
- Regardless of whether the AV Receiver is switched ON/OFF, you can switch power to DVD Player ON/OFF.

Precautions

- When you have switched power to DVD Player ON by pressing the POWER button, be sure not to forget to switch power to DVD Player OFF. If you switch power to DVD Player OFF after switching to DVD video display, the display shows that power to DVD Player has been switched OFF.
- When you eject a source disc (CD or MD) selected with the AV Receiver, power to the AV Receiver switches OFF. Depending on the connection method, the picture on the rear display may disappear.

Disc (DVD/Video CD/CD) Playback

Move the control stick upward (PLAY/PAUSE (►/II)).
The playback mark ( ) is displayed for 4 seconds and the disc starts playing.

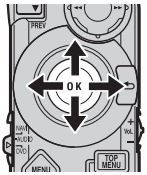
Note:
- Moving the control stick upward (PLAY/PAUSE (►/II)) when a disc is playing, pauses playback.
- If the last disc played was a DVD, playback starts from the point on that disc where you stopped play previously. With some discs, a menu may be displayed and playback may not be possible from where you left off previously.

Working with the Menu Screen

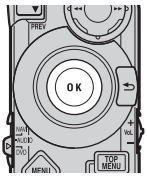
DVD Video CD

When DVDs offering menu or Video CDs featuring the PBC (Playback Control) function start playing, a menu is displayed.

With DVDs



1. **Use the joystick to select the desired MENU option.**



2. **Click the joystick.**
   Playback starts from the selected menu option.

■ To Display the Menu

You can display the menu by pressing the MENU button or TOP MENU button while a disc is playing. Pressing either of these buttons again lets you start playback from the location selected from the menu. For details, refer to the instructions provided with the disc.

Note:
- The way to display the menu differs depending on the disc.

With Video CDs

Press the number buttons to select a desired menu option.

Playback starts from the selected menu option.
Operation with the joystick is not possible.

■ To Display the Menu

You can display the menu by pressing the RETURN button while PBC playback. For details, refer to the instructions provided with the disc.

Note:

- When menu are two or more pages long, move the NEXT/PREV button upward/downward (NEXT (►►I)/PREVIOUS (I◄◄)) to switch between displays.
- To play a disc without using a menu (without PBC playback), when the disc is stopped press the appropriate number button to select the desired track. To return to PBC playback, stop playback and move the control stick upward (PLAY/PAUSE (►/II)).

Chapter and Track Advance/Return

Skipping to the Next Chapter/Track

During play, move the NEXT/PREV button upward (NEXT (►►I)).

Chapter/track numbers are displayed for 8 seconds and you advance to the next chapter/track.

Returning to the Previous Chapter/Track

During play, move the NEXT/PREV button downward (PREVIOUS (I◄◄)).

Chapter/track numbers are displayed for 8 seconds and you return to the beginning of the current chapter/track.
Move the NEXT/PREV button downward (PREVIOUS (I◄◄)) twice in succession takes you to the beginning of the chapter/track before the current chapter/track.

Specifying Title/Chapter/Track (Direct Search)

Specifying Title

DVD

Press the number button corresponding to a desired title number when the disc is stopped.

Title number is displayed for 8 seconds and playback starts from the selected title.

To select 3, press button 3.
To select 10, press buttons 10 and 0 in order.
To select 23, press buttons 10, 10 and 3 in order.

Specifying Chapter

DVD

Press the number button corresponding to a desired chapter number during playback.

Chapter number is displayed for 8 seconds and playback starts from the selected chapter.

To select 3, press button 3.
To select 10, press buttons 10 and 0 in order.
To select 23, press buttons 10, 10 and 3 in order.

Specifying Track

Video CD

Press the number button corresponding to a desired track number.

Track number is displayed for 8 seconds and playback starts from the selected track.

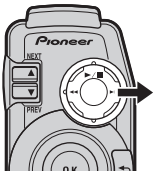
To select 3, press button 3.
To select 10, press buttons 10 and 0 in order.
To select 23, press buttons 10, 10 and 3 in order.

Note:

- With some discs, the prohibited mark "⃠" may be displayed and operation may not be possible.
- With Video CD, Direct Search is not possible during PBC playback.

Disc Fast Forward/Reverse

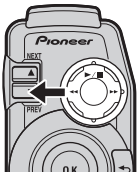
Fast Forward



1. **During play, continue moving the control stick to the right (FORWARD (►►)).**
   The fast forward mark (▶▶) is displayed while pressing the button and disc fast forward is performed.
2. **Release the control stick at the point you want to watch/listen.**
   Playback resumes from that point.

Note:
- If you continue moving the control stick to the right (FORWARD (►►)) for 5 seconds, the color of the fast forward mark (▶▶) changes from white to blue. When this happens, fast forward continues even if you release the control stick. To resume playback at a desired point, move the control stick upward (PLAY/PAUSE (►/❚❚)).
- If you fast forward to the end of a CD, fast forward continues from the beginning of the disc.
- Fast forward may not be possible at certain locations on some discs. If this happens, normal playback automatically resumes.

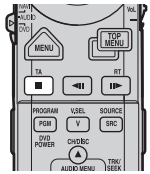
Fast Reverse



1. **During play, continue moving the control stick to the left (REVERSE (◄◄)).**
   The fast reverse mark (◀◀) is displayed while pressing the button and disc fast reverse is performed.
2. **Release the control stick at the point you want to watch/listen.**
   Playback resumes from that point.

Note:
- If you continue moving the control stick to the left (REVERSE (◄◄)) for 5 seconds, the color of the fast reverse mark (◀◀) changes from white to blue. When this happens, fast reverse continues even if you release the control stick. To resume playback at a desired point, move the control stick upward (PLAY/PAUSE (►/❚❚)).
- If you fast reverse to the beginning of a CD, normal playback resumes.
- Fast reverse may not be possible at certain locations on some discs. If this happens, normal playback automatically resumes.

Stopping Playback



Press the STOP (■) button.

Note:

- When you stop DVD or Video CD playback (during PBC playback only) by pressing the STOP (■) button, that location on the disc is memorized enabling playback from that point when you play the disc again.

Playback Variations of DVD Player

Still, Frame-by-Frame and Slow Motion Playback

Still Playback

DVD Video CD

This lets you pause playback and view a still picture.

Move the control stick upward (PLAY/PAUSE (►/II)) during playback.

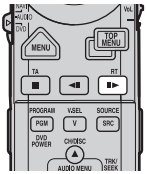
The still mark (II) is displayed for 4 seconds and playback is paused letting you view a still image.

- To return to normal playback, move the control stick upward (PLAY/PAUSE (►/II)) once more.

Frame-by-Frame Playback

DVD

This lets you move ahead one frame at a time during playback.



Press the STEP (II►) button.

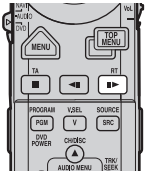
Each time you press the STEP (II►) button, you move ahead one frame.

- To return to normal playback, move the control stick upward (PLAY/PAUSE (►/II)).

Slow Motion Playback

DVD

This lets you slow down playback speed.



Press the STEP (II►) button for 1 second during playback.

The slow playback mark (▯▶) is displayed, forward Slow Motion playback begins.

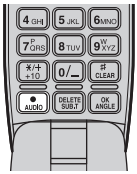
- To return to normal playback, move the control stick upward (PLAY/PAUSE (►/II)).

Note:

- There is no sound during Still, Frame-by-Frame or Slow Motion playback.
- Depending on the disc and the playback location on the disc, the prohibited mark "⃠" may be displayed indicating that Still, Frame-by-Frame and Slow Motion playback are not possible.
- With some discs, images may be unclear during Frame-by-Frame and Slow Motion playback.
- Reverse Frame-by-Frame playback and Reverse Slow Motion playback are not possible.

Changing Audio Language during Playback (Multi-Audio) DVD

DVDs can provide audio playback with different languages and different systems (Dolby Digital, DTS etc.). With DVDs featuring multi-audio recordings, you can switch between languages/audio systems during playback.



1. **Press the AUDIO button during playback.**
   The audio selection mark ( ) is displayed for 8 seconds.
2. **Press the AUDIO button while the audio selection mark is displayed.**
   The audio changes each time you press the AUDIO button.

Note:

- This function only operates with DVDs featuring multi-audio recordings.
- The number in the "②)))" mark on a DVD's package indicates the number of recorded languages/audio systems.
- With some DVDs, switching between languages/audio systems may only be possible using a menu display.
- You can also switch between languages/audio systems using the SET UP MENU. For details, refer to "Setting the Audio Language" on page 120.
- While the audio selection mark is displayed, you can also switch to a desired audio language number using the number buttons.
- Display indications such as "Dolby D" and "5.1ch" indicate the audio system recorded on the DVD. Depending on the setting, playback may not be with the same audio system as that indicated.

Changing the Subtitle Language during Playback (Multi-Subtitle) DVD

With DVDs featuring multi-subtitle recordings, you can switch between subtitle languages during playback.

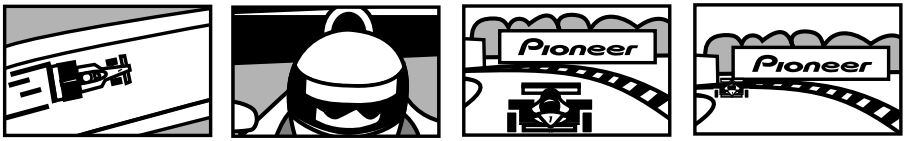
1. **Press the SUBTITLE button during playback.**
   The subtitle selection mark ( ) is displayed for 8 seconds.
2. **Press the SUBTITLE button while the subtitle selection mark is displayed.**
   The subtitle language changes each time you press the SUBTITLE button.

Note:

- This function only operates with DVDs featuring multi-subtitle recordings.
- The number in the " 2 " mark on a DVD's package indicates the number of recorded subtitle languages.
- With some DVDs, switching between subtitle languages may only be possible using a menu display.
- You can also switch between subtitle languages using the SET UP MENU. For details, refer to "Setting the Subtitle" on page 117.
- While the subtitle selection mark is displayed, you can also switch to a desired subtitle language number using the number buttons. At this time, you can also switch subtitle display OFF by pressing the CLEAR button.

Changing the Viewing Angle during Playback (Multi-Angle) DVD

With DVDs featuring multi-angle (scenes shot from multiple angles) recordings, you can switch among viewing angles during playback.



■ About Scenes that Let You Change the Viewing Angle

During playback of a scene shot from multiple angles on this product, the angle mark ( ) is displayed in the bottom right of the screen.
Switch angle mark display ON/OFF using the SET UP MENU. For details, refer to "Setting Angle Mark Display" on page 125.

1. **Press the ANGLE button during playback of a scene shot from multiple angles.**
   The angle mark ( ) and angle number (1) are displayed for 8 seconds.
2. **Press the ANGLE button while the angle mark and angle number are displayed.**
   The angle changes each time you press the ANGLE button.

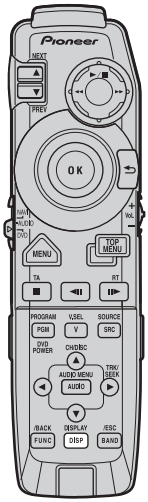
Note:

- This function only operates with DVDs featuring multi-angle recordings.
- The " " mark on a DVD's package indicates it features multi-angle scenes. The number in the " " mark indicates the number of angles from which scenes were shot.
- You cannot switch angles during Slow Motion playback.
- If you press the ANGLE button during fast forward/fast reverse or pause, fast forward/fast reverse or pause is canceled and normal playback resumes but the viewing angle does not change.
- While the angle mark and angle number are displayed, you can also switch to a desired angle number using the number buttons.

Operating DVD Player with Information Displays

Calling up Information Displays

Information displays let you easily perform a wide range of disc operations. These include starting playback from a specified title, chapter or time, setting the range of Repeat play and switching between different audio and subtitle settings.



1. **Press the DISPLAY button.**
   Each time you press the button the display changes as follows:
   Information display 1 → Information display 2 (for DVD) → Display OFF → Information display 1

Information display 1 (e.g. DVD)

Information display 2 (e.g. DVD)

Note:

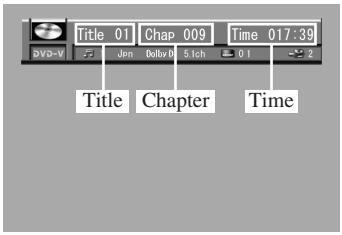
- For CDs there is no Display OFF setting.
- You can perform title, chapter and time settings with either the information display 1 or 2. This manual explains how to use the information display 1 to perform title, chapter and time settings.
- Pressing the DISPLAY button during fast forward/reverse returns you to normal playback.

Operating with the Information Display 1 of a DVD

This display lets you use the Search function to specify a title or chapter to search for a desired scene, use the Time Search function to specify a time to search for a desired scene, select the desired audio and subtitle language, and select the angle.

Searching for a Desired Scene, Starting Playback from a Specified Time

You can use the Search function to search for a desired scene by specifying a title or chapter, and the Time Search function to specify the time on a disc at which play starts.



1. **Move the joystick left/right to select a desired option.**
   The selected option is indicated in blue.
2. **Press the number buttons to input the desired number.**

For Titles and Chapters

To select 3, press button 3.
To select 10, press buttons 1 and 0 in order.
To select 23, press buttons 2 and 3 in order.

- To jump 10 titles or chapters ahead of the selected one, press the 10 button.

For Time (Time Search)

To select 21 minutes 43 seconds, press buttons 2, 1, 4 and 3 in order.
To select 1 hour 11 minutes, convert the time into 71 minutes 00 seconds and press buttons 7, 1, 0 and 0 in order.

- To jump 10 seconds ahead of the selected time, press the 10 button.

Note:

- Pressing the CLEAR button cancels the input number.
- You can also select titles and chapters by moving the joystick up/down.

3. **While the input number is displayed, click the joystick.**
   This starts playback from the selected scene.

Note:

- With discs featuring a menu, you can also press the MENU button or TOP MENU button and then make selections from the displayed menu.
- With some discs, the prohibited mark "⃠" may be displayed, indicating that titles, chapters and time cannot be specified.
- Chapter Search and Time Search are not possible when disc playback has been stopped.

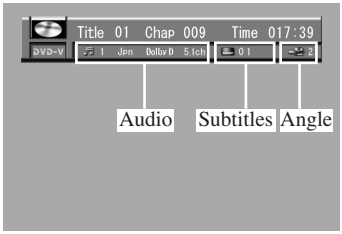
■ Direct Search

Even without using an information display you can start playback from a specified title or chapter. For details, see page 76.

Selecting Audio, Subtitle and Angle

You can perform Audio (language, stereo, audio type as Dolby Digital etc.), Subtitle language and Angle selection.

1. **Move the joystick left/right to select a desired option.**
   The selected option is indicated in blue.
2. **Move the joystick up/down to switch to the desired setting.**
   This switches you to the selected setting.



For Audio

Selection options switch as follows:

Audio 1 ↔ Audio 2 ↔ Audio 3 ↔ Audio 1

For Subtitles

Selection options switch as follows:

Subtitles 1 ↔ Subtitles 2 ↔ Subtitles OFF ↔ Subtitles 1

For Angle

Selection options switch as follows:

Angle 1 ↔ Angle 2 ↔ Angle 3 ↔ Angle 1

Note:

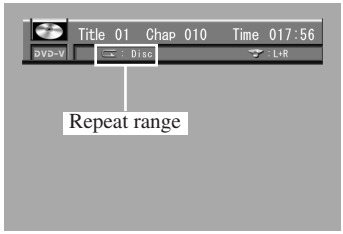
- The number of switching options depends on how many options are recorded on the DVD.
- You can switch Audio, Subtitle and Angle during playback using the respective buttons. For details, refer to “Playback Variations of DVD Player” on page 79.
- You can also switch settings by inputting numbers with the number buttons.
- Display indications such as “Dolby D” and “5.1ch” indicate the audio system recorded on the DVD. Depending on the setting, playback may not be with the same audio system as that indicated.

Operating with the Information Display 2 of a DVD DVD

In addition to the Search and Time Search functions of the information display 1, this display lets you select the range for Repeat play, and switch audio output.

Selecting Repeat Range

You can choose between Repeat play of a disc, title or chapter.

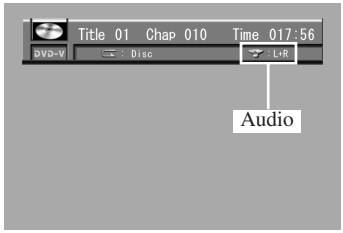


1. **Move the joystick left/right to select the Repeat range option.**
   The Repeat range option is indicated in blue.
2. **Move the joystick up/down to switch to the desired setting.**
   This switches you to the selected setting.
   Disc ↔ Title ↔ Chapter ↔ Disc
   - When you select Disc, playback of the entire disc is repeated. When you select Title or Chapter, playback of that title or chapter only is repeated.

Note:
- When the Repeat play of a DVD disc is selected, play stops and depending on the disc a menu is displayed upon completion of play of an entire disc once through.

Selecting Audio Output

You can select between stereo and monaural audio output.



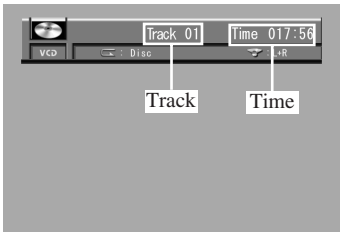
1. **Move the joystick left/right to select the Audio option.**
   The Audio option is indicated in blue.
2. **Move the joystick up/down to switch to the desired setting.**
   This switches you to the selected setting.
   L+R (Stereo) ↔ L (Left) ↔ R (Right) ↔ L+R (Stereo)
   - When you select Stereo, audio is output through both left and right channels. When you select Left or Right, audio is output from that channel only.

Operating with the Information Display of a Video CD

This display lets you use the Search function to specify a track to search for desired scenes, use the Time Search function to specify a time to search for a desired scene, switch audio output, and select the range for Repeat play. During playback of Video CDs featuring PBC (Playback Control), “PLAYBACK CONTROL ON” is displayed. During such playback, Search and Time Search functions cannot be used nor can you select the range for Repeat play. (See page 75.)

Searching for a Desired Scene, Starting Playback from a Specified Time

You can use the Search function to search for a desired scene by specifying a track, and the Time Search function to specify the time on a disc at which play starts.



1. **Move the joystick left/right to select a desired option.**
   The selected option is indicated in blue.
2. **Press the number buttons to input the desired number.**

For Tracks

To select 3, press button 3.
To select 10, press buttons 1 and 0 in order.
To select 23, press buttons 2 and 3 in order.
- To jump 10 tracks ahead of the selected one, press the 10 button.

For Time (Time Search)

To select 21 minutes 43 seconds, press buttons 2, 1, 4 and 3 in order.
To select 1 hour 11 minutes, convert the time into 71 minutes 00 seconds and press buttons 7, 1, 0 and 0 in order.
- To jump 10 seconds ahead of the selected time, press the 10 button.

Note:
- Pressing the CLEAR button cancels the input number.
- You can also select tracks by moving the joystick up/down.

3. **While the input number is displayed, click the joystick.**
   This starts playback from the selected scene.

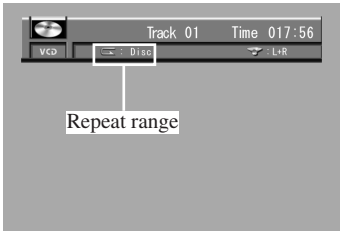
Note:
- Time Search is not possible while the disc is stopped.

■ Direct Search

Even without using an information display you can start playback of a desired track. For details, see page 76.

Selecting Repeat Range

You can choose between Repeat play of a disc or a track.



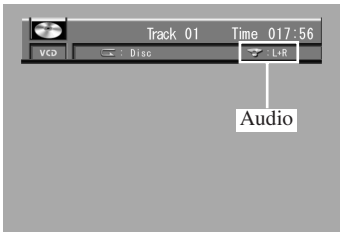
1. **Move the joystick left/right to select the Repeat range option.**
   The Repeat range option is indicated in blue.
2. **Move the joystick up/down to switch to the desired setting.**
   This switches you to the selected setting.
   Disc ↔ Track

- When you select Disc, playback of the entire disc is repeated. When you select Track, playback of that track only is repeated.

Note:
- When the Repeat play of a Video CD disc is selected, play stops and depending on the disc a menu is displayed upon completion of play of an entire disc once through.

Selecting Audio Output

You can select between stereo and monaural audio output.



1. **Move the joystick left/right to select the Audio option.**
   The Audio option is indicated in blue.
2. **Move the joystick up/down to switch to the desired setting.**
   This switches you to the selected setting.
   L+R (Stereo) ↔ L (Left) ↔ R (Right) ↔ L+R (Stereo)

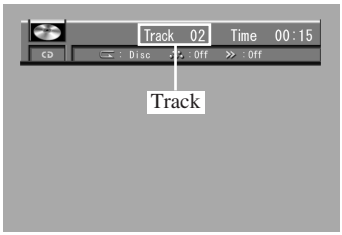
- When you select Stereo, audio is output through both left and right channels. When you select Left or Right, audio is output from that channel only.

Operating with the Information Display of a CD

This display lets you use the Search function to specify a track to search for desired track, select the range for Repeat play, and switch Random play and Scan play ON/OFF.

Searching for a Desired Track

You can use the Search function to specify a track to search for a desired track.

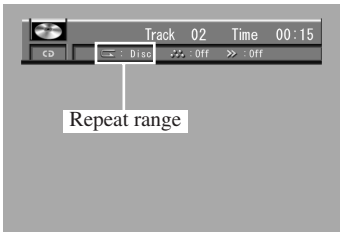


1. **Move the joystick left/right to select the Track option.**
   The Track option is indicated in blue.
2. **Press the number buttons to input the desired track number.**
   To select 3, press button 3.
   To select 10, press buttons 1 and 0 in order.
   To select 23, press buttons 2 and 3 in order.
   - To jump 10 tracks ahead of the selected one, press the 10 button.

   Note:
   - Pressing the CLEAR button cancels the input number.
   - You can also select tracks by moving the joystick up/down.
3. **While the input number is displayed, click the joystick.**
   Play of the selected track starts.

Selecting Repeat Range

You can choose between Repeat play of a disc or a track.

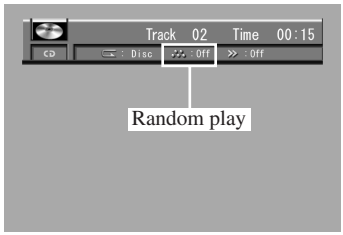


1. **Move the joystick left/right to select the Repeat range option.**
   The Repeat range option is indicated in blue.
2. **Move the joystick up/down to switch to the desired setting.**
   This switches you to the selected setting.
   Disc ↔ Track
   - When you select Disc, playback of the entire disc is repeated. When you select Track, playback of that track only is repeated.

Setting Random Play

Tracks of the CD you are currently listening to are played in a random order.

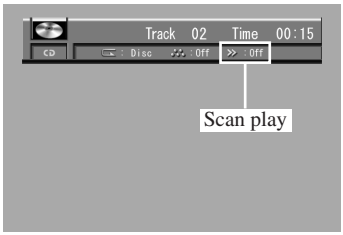
1. **Move the joystick left/right to select the Random option.**
   The Random option is indicated in blue.
2. **Move the joystick up/down to switch to the desired setting.**
   This switches you to the selected setting.
   ON ↔ OFF



Setting Scan Play

The beginning of each track on the CD you are currently listening to is played for about 10 seconds.

1. **Move the joystick left/right to select the Scan option.**
   The Scan option is indicated in blue.
2. **Move the joystick up/down to switch the Scan play ON.**
   This switches you to the selected setting.
   ON ↔ OFF



3. **When you find the desired track, move the joystick up/down to cancel the Scan play.**

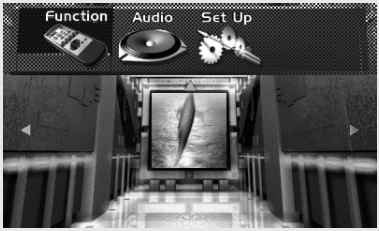
Note:
- Scan play is canceled automatically after all tracks have been scanned.

Adjusting Audio (Basic)

Accessing the Audio Menu

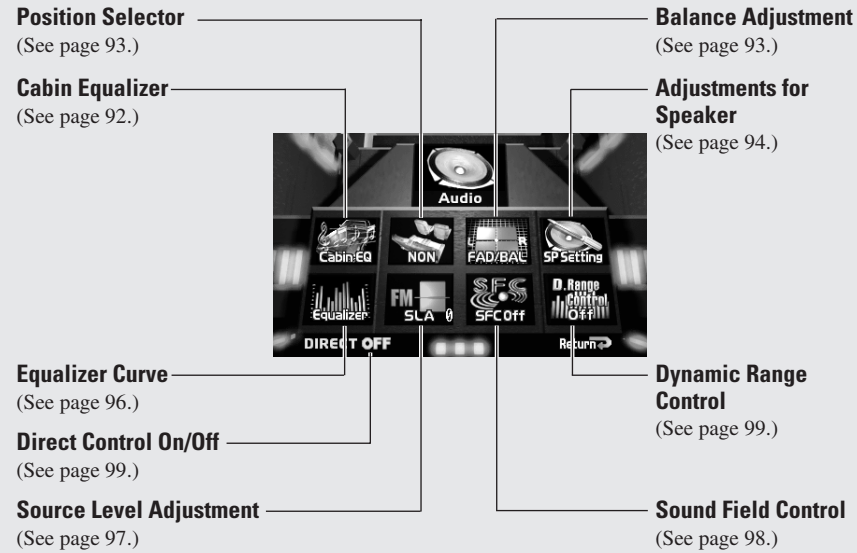
Before operating with the Audio Menu, set the remote control's operation mode switch to "AUDIO". (Refer to "Setting the Remote Control for AV Receiver Operation" on page 19.)

1. **Press the MENU button.**
   The main menu icons whirl down,with "Function" highlighted in green.



2. **Select "Audio" by moving the joystick.**
   "Audio" is highlighted in green.
3. **Click the joystick.**
   Audio Menu appears, offering you the following options:

■ **Audio Menu**



4. **Select the option by moving the joystick.**
   The selected option is highlighted in green.
5. **Click the joystick.**
   Refer to detailed operation of each function.

Exit from the Audio Menu

- **Press the RETURN button.**

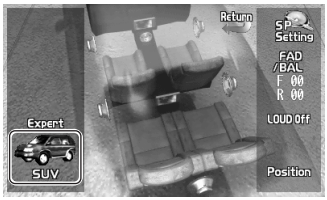
Proper Setting for the In-car Acoustic Characteristics

The built-in cabin equalizer allows you to easily adjust your audio system to meet the in-car acoustic characteristics which vary depending on the type of car and its measurement. To get the best possible sound spaciousness, be sure to make settings for the speakers. As well, making settings for “Position” and “Balance” boosts the effects of the cabin equalizer.

Cabin Equalizer

You can optimize the in-car acoustic characteristics by simply selecting a preset cabin EQ among SUV, SEDAN, WAGON and MINI VAN.

1. **Check to see “Cabin EQ” is currently highlighted.**
   If not, select that option by moving the joystick. “Cabin EQ” is highlighted in green.
2. **Click the joystick.**
   The Audio Setting Menu appears, with the currently effective type of car shown green.
3. **Click the joystick.**
   Each click changes type of car in the following order:
   SUV → SEDAN → WAGON → MINI VAN → CUSTOM → Off



Note:

- You can fine adjust or customize the preset cabin EQ. For details, see “Adjusting the Cabin Equalizer (Expert)” on page 104.

Operation at the Audio Setting Menu

- Use the joystick to move the cursor between different options. As such, the joystick will only move the cursor up/down and left/right. You cannot move diagonally.
  ↔ : Move the joystick left/right.
  ↕ : Move the joystick up/down.
- There are some settings you can make at the Audio Setting Menu without needing to go back to the Audio Menu.
  Position: See “Position Selector” (p. 93).
  LOUD: See “Loudness Adjustment” (p. 100).
  FAD/BAL: See “Balance Adjustment” (p. 93).
  SP Setting: See “Adjustments for Speaker” (p. 94).
  Expert: See “Adjusting the Cabin Equalizer (Expert)” (p. 104).
  Return: Completes operations at the Audio Setting Menu, bringing you back to the previous screen.

Position Selector

One way to assure a more natural sound is to clearly position the stereo sound image (putting you in the center of the sound field).

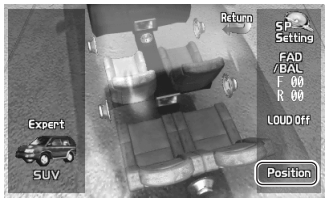
About the Position Selector

- The Position Selector function is a feature that automatically adjusts the speakers' output levels and inserts a delay time into the speakers' outputs depending on seats passengers occupy and the number of them. When used in conjunction with the Cabin EQ and SFC, the feature will make the sound image more natural and offer a panoramic sound that envelops you.

1. **Select "Position Selector" by moving the joystick.**
   "Position Selector" is highlighted in green.
2. **Click the joystick.**
   The Audio Setting Menu appears, with "Position" highlighted in green.

3. **Click the joystick again.**
   Each click changes listening position in the following order:

   Front Left ➞ Front Right ➞ Front Left & Right ➞ Rear Left ➞ Rear Right ➞ Rear Left & Right ➞ All Seats ➞ Off



Note:

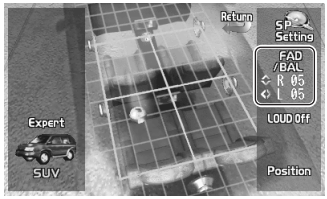
- For Time Alignment to be made, you need to have set the listening position to either of the Front Left or Right, or of the Rear Left or Right.

Balance Adjustment

This function allows you to select a Fader/Balance setting that provides ideal listening conditions in all occupied seats.

1. **Select "FAD/BAL" by moving the joystick.**
   "FAD/BAL" is highlighted in green.
2. **Click the joystick.**
   The Audio Setting Menu appears, with "FAD/BAL" highlighted in green.

3. **Click the joystick.**
   The FAD/BAL Setting Menu appears.
4. **Adjust speaker balance by moving the joystick.**
   The display shows "F 15" – "R 15" as it moves from front to rear.
   The display shows "L 09" – "R 09" as it moves from left to right.



5. Cancel the FAD/BAL Setting Menu by clicking the joystick.

Note:
- "F 00" is the proper setting when 2 speakers are in use.

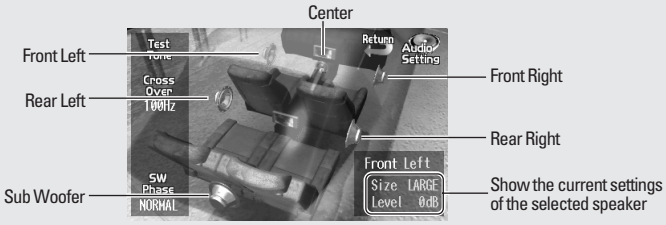
Adjustments for Speaker

You need to make "with/without" (or yes/no) and "size" (bass reproducing capacity) selection/adjustments depending on the installed speakers. The size needs to be set to Large if the speaker is capable of reproducing sounds of about 100 Hz or below. Otherwise select Small.

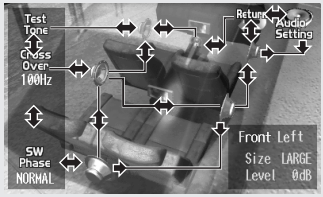
1. Select "SP Setting" by moving the joystick.
"SP Setting" is highlighted in green.

2. Click the joystick.
The Speaker Setting Menu appears.
The Front Left speaker is highlighted in green and in the lower right-hand corner of the screen the current settings of that speaker is shown.

Operation at the Speaker Setting Menu



- To select a speaker, move the joystick up/down and left/right. You cannot move diagonally.



↔ : Move the joystick left/right.

↕ : Move the joystick up/down.

Test Tone: See "Adjusting the Speakers' Output Levels using a Test Tone" (p. 102).
Cross Over: See "Selecting a Crossover Frequency" (p. 103).
SW Phase: See "Correcting the Subwoofer's Phase" (p. 103).
Audio Setting: Select this to go to the Audio Setting Menu.
Return: Completes operations at the Speaker Setting Menu, bringing you back to the previous screen.

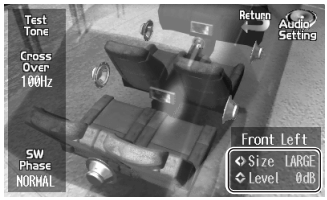
Continued overleaf.

3. **Select the speaker you want to make adjustments to by moving the joystick.**

   The currently selected speaker is highlighted in green.

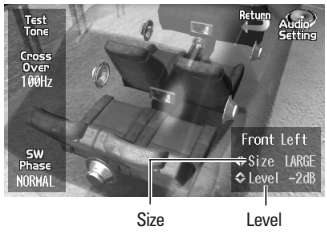
4. **Click the joystick.**

   ◇ and ◇ are displayed and you can set the size and the level for the selected speaker.



5. **Select the correct size for the selected speaker in use by moving the joystick left/right.**

   Select the speaker settings as follows:



Speakers	Setting
Front (Left & Right)	SMALL/LARGE
Rear (Left & Right)	OFF/SMALL/LARGE
Center	OFF/SMALL/LARGE
Sub Woofer	OFF/ON

Note:
- The Front Left and Right speakers cannot be set differently. The same is true for the Rear Left and Right.

6. **Adjust the speaker for output level by moving the joystick up/down.**

   When you make adjustments for listening position, the speakers are automatically set for appropriate output levels. You can tailor them if you want as discussed under the heading of "Adjusting the Speakers' Output Levels using a Test Tone" or "Adjusting the Speakers' Output Level".

7. **Click the joystick.**

   This completes adjustment to the selected speaker.

8. **Repeat steps 3 – 7 for other speakers.**

Precaution:
- Low frequency range is not output if the subwoofer is set "OFF" and the front or rear speakers set "SMALL" or "OFF".

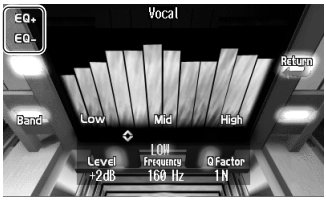
Note:
- It is imperative that non-installed speakers be set to "OFF".
- Set the front or rear speaker to "LARGE" if the speaker is capable of reproducing bass content, or if no subwoofer is installed.
- When playing a 2-channel mono source with PRO LOGIC switched ON, there are occasions when the following will occur:
  No audio is output if the center speaker setting is "ON" while no center speaker is installed.
  Audio is heard only over the center speaker if installed and the center speaker setting is "ON".

Equalizer Curve

You can switch between Equalizer curves.

1. **Select “Equalizer” by moving the joystick.**
   “Equalizer” is highlighted in green.
2. **Click the joystick.**
   The Graphic Equalizer Menu appears, with “Band” highlighted in green.

3. **Select either “EQ+” or “EQ–” by moving the joystick up/down.**
4. **Click the joystick.**
   Each click changes EQ curve in the following order:



With “EQ+” selected:

Powerful → Natural → Vocal → Custom → Flat → Super Bass

With “EQ–” selected:

Powerful → Super Bass → Flat → Custom → Vocal → Natural

Note:

- “CUSTOM” stores an equalizer curve you have made adjustments to. (Refer to “Adjusting the Equalizer Curves” on page 109.)
- You can create a different “CUSTOM” curve for each of the SLA function groups (see page 97). Remember, however, SLA is based on FM volume, so FM and AM curve are always the same.

Source Level Adjustment (SLA)

The SLA (Source Level Adjustment) function prevents radical leaps in volume level when switching between sources. Settings are based on the FM volume level, which remains unchanged.

Before performing the following steps, select the source whose volume level you will adjust. (Refer to "Operation for Each Source Unit" on page 27.)

1. **Select "SLA" by moving the joystick.**
   "SLA" is highlighted in green.
2. **Click the joystick.**
   The SLA Setting Menu appears, with the selected source's level highlighted in green.

3. **Increase or decrease the level by moving the joystick up/down.**
   The display shows "+8" – "–8".
4. **In a similar manner, adjust the volume level of other sources.**
   You can perform SLA independently for each of the following groups:

Display	Source
TUN	AM
CD	CD player, Multi-CD player, DVD player
MD	MD player
TV	TV, Video
AUX	AUX, Speaker Input
EXT	External 1, External 2

Note:
- Since the FM volume is the control, SLA is not possible in the FM modes.

Sound Field Control (SFC)

The SFC function creates the sensation of a live performance.

About the SFC function

- The acoustics of different performance environments are not the same and depend on the extent and contour of space through which sound waves move and on how sounds bounce off the stage, walls, floors and ceilings. At a live performance you hear music in three stages: direct sound, early reflections, and late reflections, or reverberations.
  Those factors are programmed into the SFC circuitry to recreate the acoustics of various performance settings.

1. **Select "SFC" by moving the joystick.**
   "SFC" is highlighted in green.
2. **Click the joystick.**
   The SFC Menu appears, with "Musical" highlighted in green.

3. **Select the desired SFC mode by moving the joystick.**
   The currently selected SFC mode is highlighted in green.

Dolby Pro Logic

Display	Sound Field Control
Musical	Musical
Drama	Drama
Action	Action
5D	5D Theater
Jazz	Jazz
Hall	Hall
Club	Club
Theater	Theater

Continued overleaf.

4. **Click the joystick.**
   Each click toggles the selected SFC mode On/Off. Switch the SFC mode On to experience a sense of presence and spaciousness.

Remarks on Dolby PRO LOGIC ON/OFF

- If the source is a 2-channel LPCM audio or a 2-channel Dolby Digital audio and you select SFC effects that are most applicable for 5.1-channel audio (i.e., Musical, Drama, Action or 5D), we recommend switching Dolby Pro Logic ON. On the other hand, when selecting SFC effects that are intended for use with 2-channel audio (i.e., Jazz, Club, Hall or Theater), we recommend switching Dolby Pro Logic OFF.
- When playing a 2-channel mono source with PRO LOGIC switched ON, there are occasions when the following will occur:
  No audio is output if the center speaker setting is "ON" while no center speaker is installed.
  Audio is heard only over the center speaker if installed and the center speaker setting is "ON".

Dynamic Range Control

The dynamic range refers to the difference between the largest and softest sounds. The dynamic range control compresses this difference so that you can clearly hear sounds even at low volume levels.

1. **Select "D. Range Control" by moving the joystick.**
   "D. Range Control" is highlighted in green.
2. **Click the joystick.**
   Each click toggles the Dynamic Range Control On/Off.

Note:

- The Dynamic Range Control is effective only on Dolby Digital sounds.

Direct Control ON/OFF

You can override audio settings to check for effectiveness of your audio settings.

1. **Select "DIRECT" by moving the joystick.**
   "DIRECT" is highlighted in green.
2. **Click the joystick.**
   Each click toggles DIRECT ON/OFF.
   When this feature is turned on, "DIRECT ON" appears in the center of the screen.

Note:

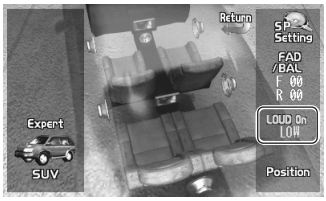
- All audio functions are locked out during DIRECT ON except VOLUME.

Loudness Adjustment

The Loudness function compensates for deficiencies in the low and high sound ranges at low volume. You can select a desired Loudness level.

1. **Select "Position Selector" by moving the joystick.**
   "Position Selector" is highlighted in green.
2. **Click the joystick.**
   The Audio Setting Menu appears, with "Position" highlighted in green.

3. **Select "LOUD" by moving the joystick up.**
   "LOUD" is highlighted in green.
4. **Click the joystick.**
   Each click changes sound range control in the following order:
   LOW → MID → HIGH → Off



Note:
- The Audio Menu Screen does not provide a direct access to "LOUD".

Fine Adjusting Audio (Expert)

Before Getting Started

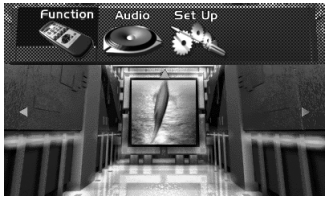
This section of the manual looks at trimming certain settings to customize audio to your taste. Check to make sure of the following settings before performing the steps below. In addition, it is also necessary that the Cabin Equalizer (see page 92) and Adjustments for Speaker (see page 94) should correctly have been set up and made in accordance with the type of car you are in and the speaker system in use.

Function	Setting	Page
DIRECT	OFF	99
Equalizer Curve	Flat	96
SFC (Sound Field Control)	Off	98
Fader/Balance	F 00/R 00	93
Position	Front Right, Front Left, Rear Right or Rear Left	93

Adjusting for the Speakers In Use

Accessing the Speaker Setting Menu

1. **Press the MENU button.**
   The main menu icons whirl down, with “Function” highlighted in green.
2. **Select “Audio” by moving the joystick.**
   “Audio” is highlighted in green.
3. **Click the joystick.**
   The Audio Menu appears.
4. **Select “SP Setting” by moving the joystick.**
   “SP Setting” is highlighted in green.

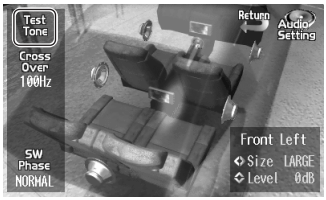


5. **Click the joystick.**
   The Speaker Setting Menu appears.

Adjusting the Speakers' Output Levels using a Test Tone

A convenient test tone allows you to easily get the overall balance right among the speakers.

1. **Select "Test Tone" by moving the joystick.**
   "Test Tone" is highlighted in green.



2. **Click the joystick.**
   The test tone is output. It rotates from speaker to speaker in the following sequence at intervals of about 2 seconds. The current settings for the speaker over which you hear the test tone are shown in the lower right-hand corner of the screen.

   Front Left → Center → Front Right → Rear Right → Rear Left → Subwoofer

   Check each speaker's output level. If no adjustments are needed, perform step 5 to stop the test tone.

   Note:
   - The settings do not appear for speakers whose Size is set OFF.

3. **Adjust the speakers' output level by moving the joystick up/down.**
   The display shows "–10 dB" – "+10 dB".
   The test tone rotates to next speaker after about 2 seconds from the last joystick operation.

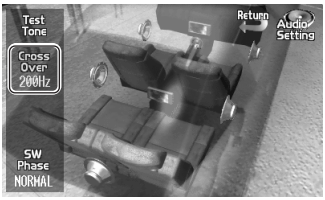
4. **Repeat step 3, make adjustment of the other speakers' output level.**

5. **Complete the procedure by clicking the joystick.**

   Note:
   - If needed, select speakers and adjust their 'absolute' output level, refer to "Adjustments for Speaker". (See page 94.)
   - To adjust the speakers' output level at the Speaker Setting Menu is the same as making an speakers' output level at the Expert Setting Menu. Both provide the same results.

Selecting a Crossover Frequency

You can select a frequency, sounds under which are reproduced through the subwoofer.
If the installed speakers include one whose “Size” has been set “SMALL”, you can select a frequency, sounds under which are reproduced through a “LARGE” speaker or subwoofer.



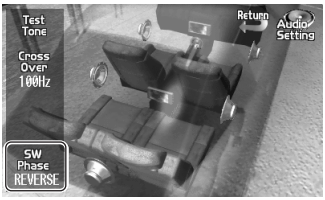
1. **Select “Cross Over” by moving the joystick.**
   “Cross Over” is highlighted in green.
2. **Click the joystick.**
   Each click changes crossover frequency in the following order:
   100 Hz → 200 Hz → 63 Hz

Note:

- Selecting a crossover frequency is to set a cut-off frequency of the subwoofer’s L.P.F. (low-pass filter) and that of the “SMALL” speaker’s H.P.F. (high-pass filter). Crossover frequency setting has no effect if the subwoofer is set “OFF” and any other speaker set “LARGE” or “OFF”.

Correcting the Subwoofer’s Phase

If trying to boost the bass output of the subwoofer doesn’t do much or rather makes you feel that bass gets further murky, this may indicate that the subwoofer’s output and bass content you hear over other speakers cancel each other out.
To remove this problem, try changing the phase setting for the subwoofer.



1. **Select “SW Phase” by moving the joystick.**
   “SW Phase” is highlighted in green.
2. **Click the joystick.**
   Each click toggles NORMAL and REVERSE.

Adjusting the Cabin Equalizer (Expert)

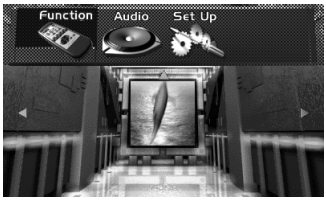
At the Expert Setting Menu you can make fine adjustments for 3-band parametric EQ, speaker output level and time alignment, speaker by speaker. “Band”, “Frequency”, “EQ Level” and “Q Factor” are options you need to select when adjusting the 3-band parametric equalizer.

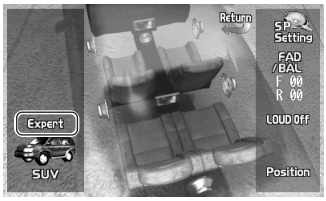
Tips for adjusting the Cabin Equalizer

- The center speaker largely determines the sound image and getting the balance right isn’t easy. We recommend reproducing a 2-ch. audio (a CD for example) and getting the balance right among the speakers except for the center, and then reproducing a 5.1-ch. audio (Dolby Digital or DTS) and adjusting the center speaker’s output to the balance you have already got among the other speakers.
- When you make adjustment for speakers, the currently selected type of car is highlighted in orange showing that a tailored EQ curve is stored in memory. Your tailored Cabin EQ can be stored in memory (see page 108) and be erased from memory (see page 108).

Accessing the Expert Setting Menu

1. **Press the MENU button.**
   The main menu icons whirl down, with “Function” highlighted in green.
2. **Select “Audio” by moving the joystick.**
   “Audio” is highlighted in green.
3. **Click the joystick.**
   The Audio Menu appears.
4. **Check to see “Cabin EQ” is currently highlighted.**
   If not, select that option by moving the joystick. “Cabin EQ” is highlighted in green.
5. **Click the joystick.**
   The Audio Setting Menu appears, with the currently effective type of car shown in green.
6. **Select “Expert” by moving the joystick.**
   “Expert” is highlighted in green.
7. **Click the joystick.**
   The Expert Setting Menu appears, with Front Left speaker highlighted in green and setting menu on the left.



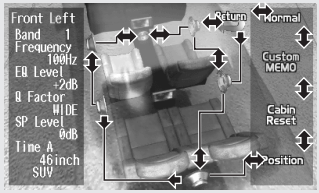


Operation at the Expert Setting Menu

- To select options, move the joystick up/down or left/right. You cannot move diagonally.

  ↔ : Move the joystick left/right.

  ↕ : Move the joystick up/down.



Normal: Select this to go to the Audio Setting Menu. (p. 92)
Custom MEMO: See “Storing the Adjusted Cabin EQ into Memory” (p. 108).
Cabin Reset: See “Reset Adjusted Cabin EQ” (p. 108).
Position: See “Position Selector” (p. 93).
Return: Completes operations at the Expert Setting Menu, bringing you back to the previous screen.

Adjusting 3-Band Parametric Equalizer

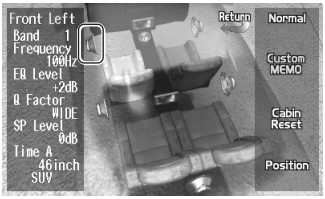
You can adjust the front, rear and center EQ curves separately by selecting a center frequency (Frequency), an EQ level (EQ Level) and a Q factor (Q Factor) for each band (Band).
The cabin EQ is an equalizer that optimizes the in-car acoustic characteristics and is basic to creation of sound fields most appropriate for your car. If you want to adjust sound fields to the current listening source of music, use the equalizer referred to in “Adjusting the Equalizer Curves” on page 109.

Center Frequency

- You can select a center frequency from among 20 frequencies for each band. You can change the center frequency in 1/3-octave steps, but you cannot select frequencies so that there are intervals shorter than 1 octave among the three bands’ center frequencies.

1. Select a speaker by moving the joystick.

The currently selected speaker is highlighted in green.



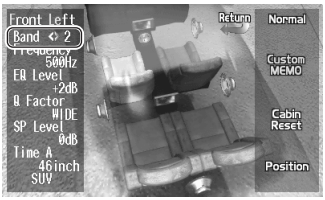
Note:

- When selecting the subwoofer, you cannot make adjustment to the 3-band parametric EQ. For the subwoofer you can only adjust its output level (see page 106) and perform a time alignment procedure (see page 107).

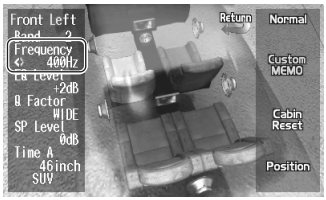
2. Click the joystick.

You are ready to adjust the selected speaker’s settings. “Band” is highlighted in green.

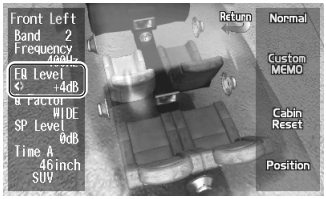
3. Select a band by moving the joystick left/right.



4. **Select "Frequency", "EQ Level" or "Q Factor" by moving the joystick up/down.**
   Selected option is highlighted in green.



5. **Adjust the selected option by moving the joystick left/right.**
   The selectable options are adjustable in the following limits:



Option	Adjustable Range
Frequency	100 Hz – 8 kHz
EQ Level	–12 dB – +12 dB
Q Factor	WIDE/NARROW

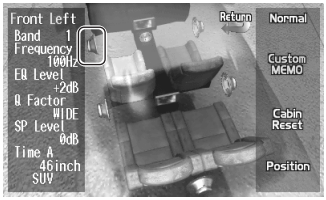
Note:
- The Front Left and Right speakers cannot be adjusted differently. The same is true for the Rear Left and Right. When you make adjustment to either of the pair, the other is automatically set to the same position.

6. **Select "Band" by moving the joystick up.**
7. **Repeat steps 3 – 6 for the selected band.**
8. **Complete the setting by clicking the joystick.**
9. **Repeat steps 1 – 8 for other speakers.**

Adjusting the Speakers' Output Level

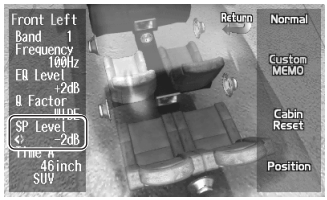
You can readjust the speakers' output levels once adjusted using a test tone while hearing music this time.

1. **Select a speaker by moving the joystick.**
   The currently selected speaker is highlighted in green.
2. **Click the joystick.**
   You are ready to make adjustments to the selected speaker. "Band" is highlighted in green.



Continued overleaf.

3. **Select "SP Level" by moving the joystick.**
   "SP Level" is highlighted in green.
4. **Adjust the speaker's output level by moving the joystick left/right.**
   The display shows "–10 dB" – "+10 dB".
5. **Complete the setting by clicking the joystick.**



Note:
- The output level you set at the Expert Setting Menu is imported into the speaker's output level field in the Speaker Setting Menu.

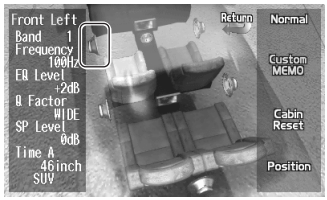
Adjusting the Time Alignment

By adjusting the distance between each speaker and a selected listening position, you can insert delay times into the speakers' output to obtain a correct sound image and overall level balance. Although this is automatically achieved when you set the Cabin EQ (see page 92) or the listening position (see page 93), the Time Alignment feature provides a fine adjustment.

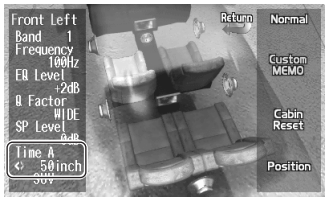
To perform time alignment

- The listening position must correctly be set (see page 93).

1. **Select a speaker by moving the joystick.**
   The currently selected speaker is highlighted in green.
2. **Click the joystick.**
   You are ready to make adjustments to the selected speaker. "Band" is highlighted in green.



3. **Select "Time A" by moving the joystick down.**
   "Time A" is highlighted in green.
4. **Select a distance by moving the joystick left/right.**
   The display shows "0" – "200" inches.
5. **Complete the setting by clicking the joystick.**

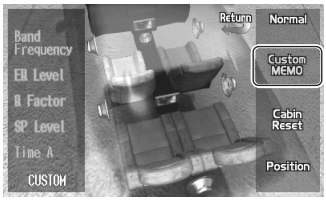


Note:
- "A" in "Time A" is for Alignment.

Storing the Adjusted Cabin EQ into Memory

Once you have adjusted a Cabin EQ, you can store it into memory.

1. **Select "Custom MEMO" by moving the joystick.**
   "Custom MEMO" is highlighted in green.



2. **Click the joystick.**
   Your adjusted cabin EQ has been stored into memory, and car type changes to "CUSTOM" in the lower left-hand corner of the screen.

Note:

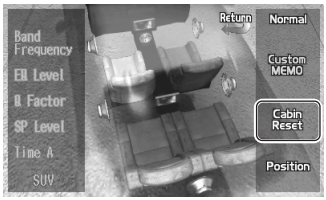
- You can perform the above steps as many times as you want in the process of customizing a cabin EQ. Each time you do so, the "Custom MEMO" is updated.

Reset Adjusted Cabin EQ

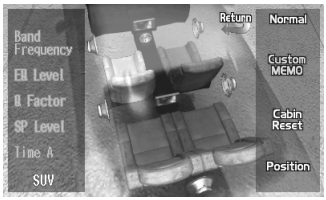
You can switch a tailored Cabin EQ back to its initial setting status.

You need to select a Cabin EQ (type of car) to be reset first. (Refer to "Cabin Equalizer" on page 92.)

1. **Select "Cabin Reset" by moving the joystick.**
   "Cabin Reset" is highlighted in green.



2. **Click the joystick.**
   The customized EQ is erased and the type of car displayed in the lower left-hand corner of the screen, that was highlighted in orange, is grayed out.

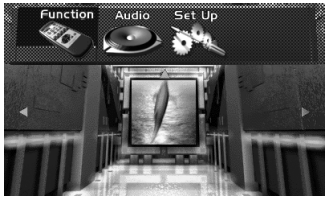


Adjusting the Equalizer Curves

The Cabin EQ is factory set to provide the best possible sound depending on types of car. Against this background you can also adjust Equalizer Curves, or sound effects, to create sound according to your preference.

Before performing the following steps, select the source whose EQ curve you'll adjust. (Refer to "Operation for Each Source Unit" on page 27.)

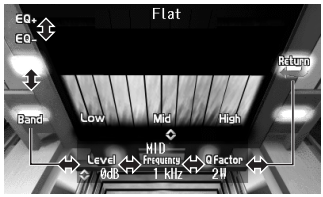
1. **Press the MENU button.**
   The main menu icons whirl down, with "Function" highlighted in green.
2. **Select "Audio" by moving the joystick.**
   "Audio" is highlighted in green.
3. **Click the joystick.**
   The Audio Menu appears.



4. **Select "Equalizer" by moving the joystick.**
   "Equalizer" is highlighted in green.
5. **Click the joystick.**
   The Graphic Equalizer Menu appears, with "Band" highlighted in green.

6. **Select the band by clicking the joystick.**
   Each click changes band in the following order:
   Low → Mid → High

7. **Select "Level", "Frequency" or "Q Factor" by moving the joystick.**
   Selected option is highlighted in green.



8. Adjust the selected option by moving the joystick up/down.

The selectable options are adjustable in the following limits:
As well, “Frequency” differs in adjustable range from Band to Band.

Option	Adjustable Range
Level	–12 dB to +12 dB
Frequency	Low: 40/80/100/160 Hz
	Mid: 200/500/1k/2k Hz
	High: 3.15k/8k/10k/12.5k Hz
Q Factor	2W/1W/1N/2N

9. Select “Band” by moving the joystick.

10. Repeat steps 6 – 9 for other bands.

Note:

- If you make adjustments when a curve other than “CUSTOM” is selected, “CUSTOM” appears and the adjusted curve is stored in “CUSTOM”. (See page 96.)
- For how to select EQ curves other than “CUSTOM”, refer to “Equalizer Curve”.

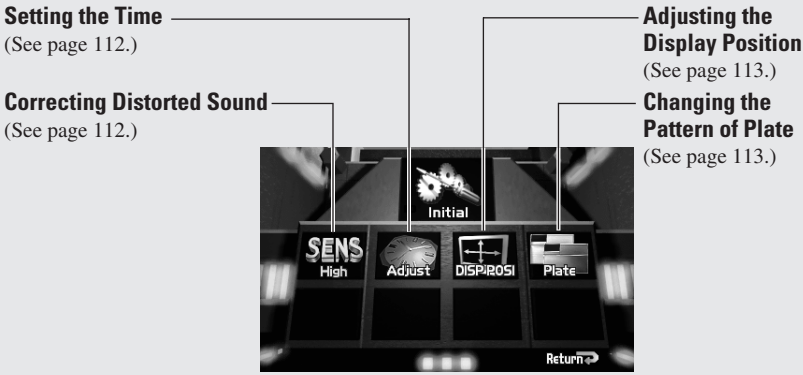
Changing the Initial Settings of AV Receiver

Accessing the Initial Settings Menu

Before operating with the AV Receiver's Initial Setting Menu, set the remote control's operation mode switch to "AUDIO". (Refer to "Setting the Remote Control for AV Receiver Operation" on page 19.)

1. **Switch the Power off by pressing the SOURCE button for 1 second.**
2. **Press the MENU button for 2 seconds.**
   The Initial Settings Menu appears, with "SENS" highlighted in green.

■ **Initial Settings Menu**



3. **Select the option by moving the joystick.**
   The selected option is highlighted in green.
4. **Click the joystick.**
   Refer to detailed operation of each function.

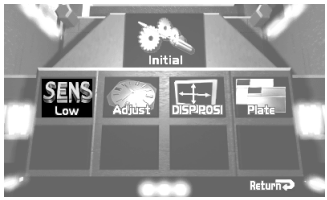
Exit from the Initial Settings Menu

- **Press the RETURN button.**
  Exit from the Initial Settings Menu and switch power off.

Correcting Distorted Sound

You can minimize distortion likely caused depending on the EQ curve settings.

1. **Check to see "SENS" is currently highlighted.**
   If not, select that option by moving the joystick.
   "SENS" is highlighted in green.
2. **Click the joystick.**
   Each click toggles SENS High/Low.



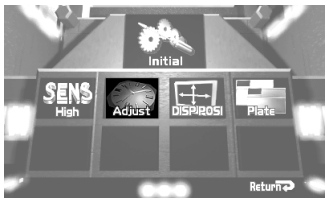
Note:

- Setting an EQ level high can cause distortion. If highs sound crippled or distorted, try switching to "Low". Normally, leave the setting at "High" to ensure quality sound.

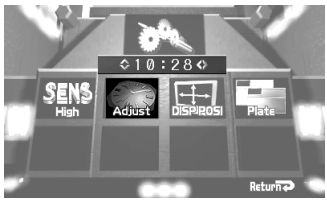
Setting the Time

This is the mode for setting the time on the product's clock display.

1. **Select "Adjust" by moving the joystick.**
   "Adjust" is highlighted in green.
2. **Click the joystick.**
   The clock adjustment display appears on the screen.



3. **Adjust "Hour" by moving the joystick up/down.**
4. **Adjust "Minute" by moving the joystick left/right.**
   As soon as you switch to "Minute", the seconds start counting from 00.
5. **Click the joystick.**
   The clock adjustment display disappears.



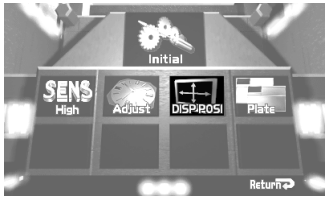
Note:

- How to display the time indication is discussed under the heading of "Switching the Center Screen and Time Display in the Center Room" on page 133.

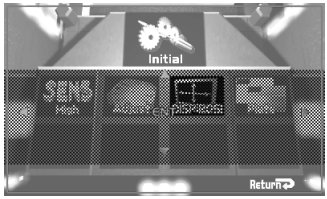
Adjusting the Display Position

You can adjust the position of the display.

1. **Select "DISP POSI" by moving the joystick.**
   "DISP POSI" is highlighted in green.
2. **Click the joystick.**



3. **Adjust the display position by moving the joystick.**
4. **Click the joystick.**
   The adjusted display position is memorized.

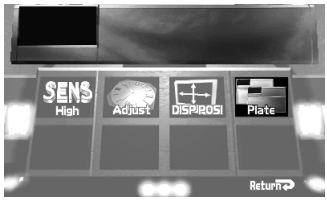


Changing the Pattern of Plate

You can change the pattern of the Source Plate and Flip-Down Plate in sequence.

1. **Select "Plate" by moving the joystick.**
   "Plate" is highlighted in green.

2. **Click the joystick.**
   Each click changes the pattern of the plate in the following order:
   Pattern 1 → Pattern 2 → Pattern 3

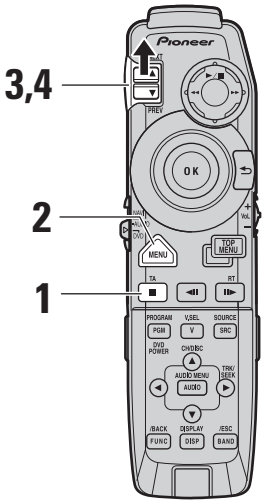


Changing Initial Settings of DVD Player

Calling up the SET UP MENU

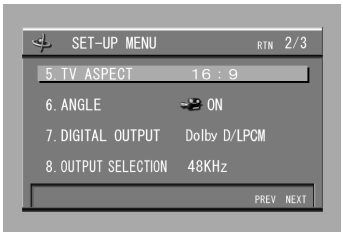
DVD

You can use this menu to change Audio, Subtitle, Parental Lock and other DVD settings. Before operating with the DVD Player's SET UP MENU, set the remote control's operation mode switch to "DVD". (Refer to "Setting the Remote Control for DVD Player Operation" on page 20.)



1. **Press the STOP (■) button.**
2. **Press the MENU button when the disc is stopped.**
   The SET UP MENU is displayed.

3. **Move the NEXT/PREV button upward (NEXT (►►I)).**
   The second SET UP MENU is displayed.

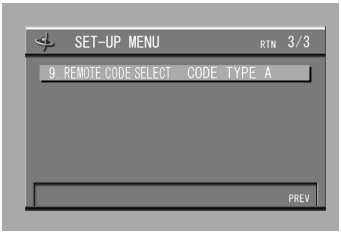


Note:

- To switch to the first SET UP MENU, move the NEXT/PREV button downward (PREVIOUS (I◄◄)).

4. Move the NEXT/PREV button upward (NEXT (►►I)).

The third SET UP MENU is displayed.



Note:

- To switch to the second SET UP MENU, move the NEXT/PREV button downward (PREVIOUS (I◄◄)).

Note:

- If you press the MENU button during display of a SET UP MENU, the SET UP MENU is canceled and the unit returns to the previous display.

■ Returning to the previous display

The SET UP MENU lets you switch between displays of different setting options. To continue performing different settings, or if you make a mistake during setting, pressing the RETURN button takes you back to the previous display each time you press it.

Setting the Subtitle (SUBTITLE LANG.) DVD

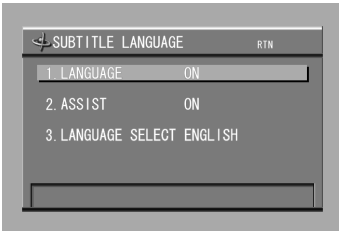
You can set a desired subtitle language. If the selected subtitle language is recorded on the DVD, subtitles are displayed in that language. You can also switch subtitle and assist subtitle display ON/OFF.

Setting Subtitles and Assist Subtitles ON/OFF

You can switch Subtitle and Assist Subtitle ON/OFF as desired.

1. **Move the joystick up/down to select the "SUBTITLE LANG.".**
   "SUBTITLE LANG." is indicated in blue.
2. **Click the joystick.**
   A subtitle language menu is displayed.

3. **Move the joystick up/down to select Subtitle ON/OFF (LANGUAGE) or Assist Subtitle ON/OFF (ASSIST).**
4. **Click the joystick.**
   Each time you click the joystick the selected setting switches ON/OFF.



Note:

- Pressing the RETURN button takes you back to the previous display.

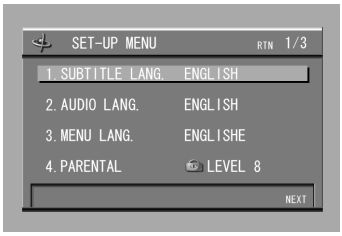
■ Assist Subtitles

Assist subtitles offer explanations for the aurally impaired. However, they are only displayed if they are recorded on the DVD.

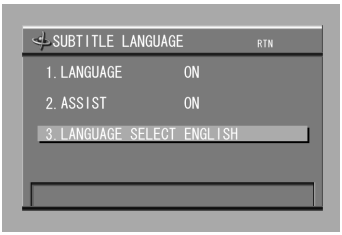
Setting the Subtitle Language

You can set the preferred subtitle language.

1. **Move the joystick up/down to select the "SUBTITLE LANG.".**
   "SUBTITLE LANG." is indicated in blue.
2. **Click the joystick.**
   A subtitle language menu is displayed.

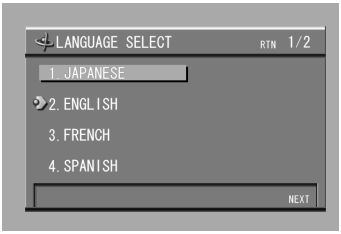


3. **Move the joystick up/down to select the "LANGUAGE SELECT".**
   "LANGUAGE SELECT" is indicated in blue.



4. **Click the joystick.**
   A language select menu is displayed.

5. **Move the joystick up/down to select the desired language.**
   The currently set language is indicated the mark "". The language selected with the joystick is indicated in blue.



Note:
- To switch to the second language select menu, move the NEXT/PREV button upward (NEXT (►►I)).
- To return to the first language select menu, move the NEXT/PREV button downward (PREVIOUS (I◄◄)).

Continued overleaf

6. Click the joystick.

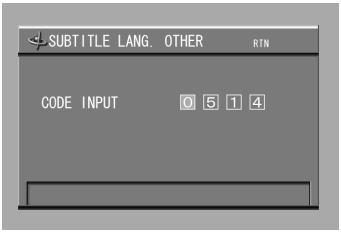
A subtitle language is set.

Note:

- If the selected language is not recorded on the disc, languages specified on the disc are displayed.
- You can also switch the subtitle language during playback with the SUBTITLE button. (See page 81.)
- Even if you use the SUBTITLE button to switch the subtitle language, this does not affect the settings here.
- Pressing the RETURN button takes you back to the previous display.

■ When You Select "OTHERS"

When you select "OTHERS", a language code input display is shown. Refer to "Language Code Chart" (see page 140), using the number buttons to input the four digit code of the desired language, then click the joystick.



Note:

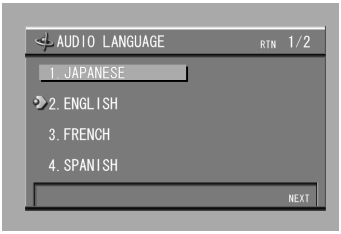
- Pressing the CLEAR button cancels the input numbers.

Setting the Audio Language (AUDIO LANG.) DVD

You can set the preferred audio language.

1. **Move the joystick up/down to select the "AUDIO LANG.".**
   "AUDIO LANG." is indicated in blue.
2. **Click the joystick.**
   An audio language menu is displayed.

3. **Move the joystick up/down to select the desired audio language.**
   The currently set language is indicated the mark "✓". The language selected with the joystick is indicated in blue.



Note:
- To switch to the second language select menu, move the NEXT/PREV button upward (NEXT (►►I)).
- To return to the first language select menu, move the NEXT/PREV button downward (PREVIOUS (I◄◄)).

4. **Click the joystick.**
   The audio language is set.

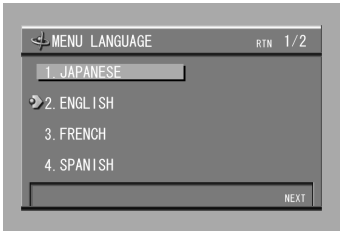
Note:
- If the selected language is not recorded on the disc, the language specified on the disc is output.
- You can also switch the audio language during playback with the AUDIO button. (See page 80.)
- Even if you use the AUDIO button to switch the audio language, this does not affect the settings here.
- Pressing the RETURN button takes you back to the previous display.
- If you have selected "OTHERS", refer to "When You Select "OTHERS"" on page 119.

Setting the Menu Language (MENU LANG.) DVD

You can set the preferred language for displays of menus recorded on a disc.

1. **Move the joystick up/down to select the "MENU LANG.".**
   "MENU LANG." is indicated in blue.
2. **Click the joystick.**
   A menu language menu is displayed.

3. **Move the joystick up/down to select the desired menu language.**
   The currently set language is indicated the mark "✓". The language selected with the joystick is indicated in blue.



Note:
- To switch to the second language select menu, move the NEXT/PREV button upward (NEXT (►►I)).
- To return to the first language select menu, move the NEXT/PREV button downward (PREVIOUS (I◄◄)).

4. **Click the joystick.**
   The menu language is set.

Note:
- If the selected language is not recorded on the disc, the language specified on the disc is displayed.
- Pressing the RETURN button takes you back to the previous display.
- If you have selected "OTHERS", refer to "When You Select "OTHERS"" on page 119.

Setting the Parental Lock (PARENTAL) DVD

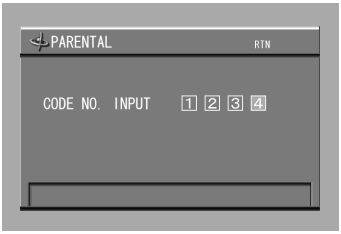
Some DVDs let you use Parental Lock to restrict the viewing of violent and adult oriented scenes by children. You can set the Parental Lock level in steps as desired.

Setting the Code Number and Level

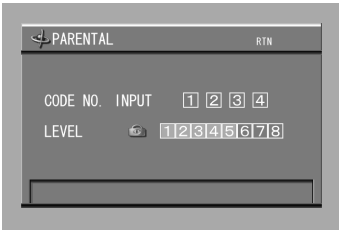
When you first use this function, register your code number. If you do not register a code number, Parental Lock will not operate.

1. **Move the joystick up/down to select the "PARENTAL".**
   "PARENTAL" is indicated in blue.

2. **Click the joystick.**
   Parental Lock setting menu is displayed.
3. **Press the number buttons to input a four digit code number.**
4. **Click the joystick.**
   The code number is set, and you can now set the level.



5. **Move the joystick left/right to select the desired level.**



Level	Parental Lock details
LEVEL 8	Playback of the entire disc is possible. (Initial setting)
LEVEL 7 – LEVEL 2	This prevents playback of discs featuring adult oriented material. (Playback of discs for children and non-adult oriented discs is possible.)
LEVEL 1	Playback of discs for children only is possible.

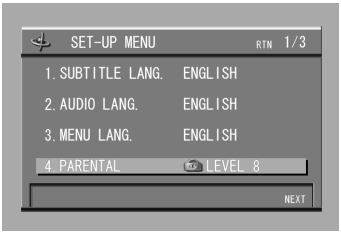
6. **Click the joystick.**
   The parental lock level is set.

Note:
- We recommend to keep a record of your code number in case you forget it.
- The Parental Lock level is recorded on the disc. You can confirm it by looking at the disc package, included literature or on the disc itself. With discs that do not feature a recorded Parental Lock level, you cannot use Parental Lock.
- With some discs, Parental Lock operates to skip certain scenes only, after which normal playback resumes. For details, refer to the disc's instructions.
- Pressing the RETURN button takes you back to the previous display.

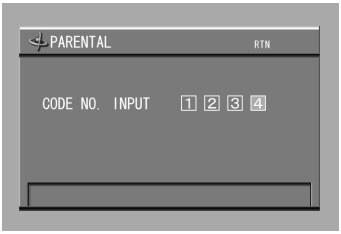
Changing the Level

You can change the set Parental Lock level.

1. **Move the joystick up/down to select the "PARENTAL".**
   "PARENTAL" is indicated in blue.
2. **Click the joystick.**
   Parental Lock setting menu is displayed.

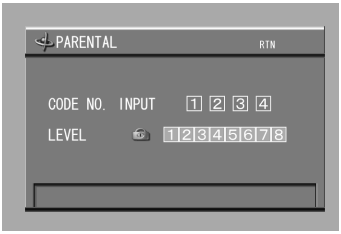


3. **Press the number buttons to input the registered code number.**
4. **Click the joystick.**
   This enters the code number, and you can now change the level.



Note:
- If you input an incorrect code number, the prohibited mark "⃠" is displayed. Press the CLEAR button and input the correct code number.
- If you forget your code number, refer to "If You Forget Your Code Number" on page 139.

5. **Move the joystick left/right to select the desired level.**
6. **Click the joystick.**
   The new Parental Lock level is set.



Note:
- Pressing the RETURN button takes you back to the previous display.

■ When Playing DVDs Enabling Parental Lock

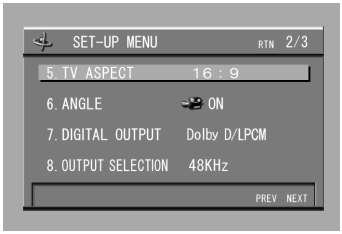
When you play a disc featuring Parental Lock, code number input indications may be displayed. If this happens and you do not input the correct code number, playback will not begin.

Setting Aspect Ratio (TV ASPECT) DVD

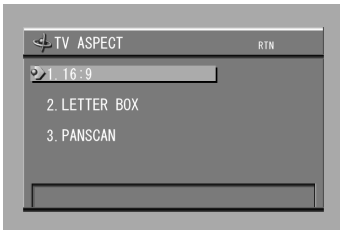
There are two kinds of display. A wide screen display has a width-to-height ratio (TV aspect) of 16:9, while a regular display has a TV aspect of 4:3. When a display is connected to the rear video output, set the correct TV aspect as for that display.

Note:
- If you change the TV aspect, this product's display changes to the same setting.

1. **Move the joystick up/down to select the "TV ASPECT" in the second SET UP MENU.**
   "TV ASPECT" is indicated in blue. (For details, see page 115.)
2. **Click the joystick.**
   TV aspect menu is displayed.



3. **Move the joystick up/down to select the desired TV aspect.**
   The currently set TV aspect is indicated the mark "✓". The TV aspect selected with the joystick is indicated in blue.



TV aspect	Setting detail
16:9	Select when using a wide screen display. (Initial setting)
LETTER BOX	Select when using a regular display. When playing discs featuring images recorded with a 16:9 TV aspect, the picture is the shape of a letter box with black bands at the top and bottom of the screen.
PANSCAN	Select when using a regular display. When playing discs featuring images recorded with a 16:9 TV aspect, the picture is cut short at the right and left of the screen.

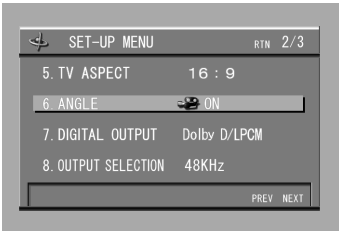
4. **Click the joystick.**
   The selected TV aspect is set.

Precaution:
- When using a regular display, select either "LETTER BOX" or "PANSCAN". Selecting 16:9 may result in an unnatural picture.
- When playing discs that do not specify "PANSCAN", playback is with "LETTER BOX" even if you select the "PANSCAN" setting. Confirm whether the disc package bears the "16:9 LB" mark. (See page 13.)
- Some discs do not enable changing of the TV aspect. For details, refer to the disc's instructions.
- Pressing the RETURN button takes you back to the previous display.

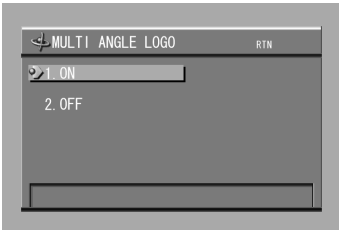
Setting Angle Mark Display (ANGLE) DVD

With discs featuring multi-angle recordings, the angle mark is displayed at the bottom right of the screen during playback of scenes enabling multi-angle viewing. You can set angle mark display ON/OFF.

1. **Move the joystick up/down to select the "ANGLE" in the second SET UP MENU.**
   "ANGLE" is indicated in blue. (For details, see page 115.)
2. **Click the joystick.**
   Angle mark menu is displayed.



3. **Move the joystick up/down to select angle mark display ON/OFF.**
   The currently set option is indicated the mark "✓". The option selected with the joystick is indicated in blue.
4. **Click the joystick.**
   Angle mark display is set ON/OFF.



Note:

- Pressing the RETURN button takes you back to the previous display.

Setting for Digital Output (DIGITAL OUTPUT) DVD

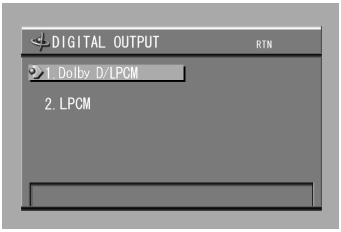
Set digital output correctly to match the components you are using with this unit. There is no need to change settings if this unit is not connected for digital output.
With this system, select the "Dolby D/LPCM" setting.

Precaution:
- Incorrect setting may result in noise and damage to speakers.

1. **Move the joystick up/down to select the "DIGITAL OUTPUT" in the second SET UP MENU.**
   "DIGITAL OUTPUT" is indicated in blue. (For details, see page 115.)

2. **Click the joystick.**
   Digital output setting menu is displayed.

3. **Move the joystick up/down to select the desired digital output setting.**
   The currently set digital output setting is indicated the mark "✓". The digital output setting selected with the joystick is indicated in blue.



Digital output	Setting detail
Dolby D/LPCM	Select when using a Dolby Digital compatible amp and decoder. The Dolby Digital signal is output as it is. (Initial setting)
LPCM	Select when using an amp and decoder that are not Dolby Digital compatible. The Dolby Digital signal is converted to and output as a linear PCM signal.

4. **Click the joystick.**
   The selected digital output setting is set.

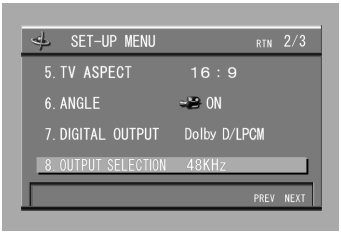
Note:
- Linear PCM output of DTS audio is not possible. If you select the LPCM setting, DTS audio is not output.
- Pressing the RETURN button takes you back to the previous display.

Setting Digital and Analog Audio Output (OUTPUT SELECTION) DVD

You can set linear PCM audio output for both digital and analog output. Set audio output correctly to match the components you are using with this unit.
With this system, select the “48 kHz” setting. If you select the “96 kHz” setting, no sound will be output when playing discs featuring 96 kHz recordings.

Precaution:
- If the setting is incorrect there will be no sound.

1. **Move the joystick up/down to select the “OUTPUT SELECTION” in the second SET UP MENU.**
   “OUTPUT SELECTION” is indicated in blue.
   (For details, see page 115.)



2. **Click the joystick.**
   Audio output setting menu is displayed.

3. **Move the joystick up/down to select the desired audio output setting.**
   The currently set audio output setting is indicated the mark “✓”. The audio output setting selected with the joystick is indicated in blue.

Output setting	Setting detail
48kHz	Select this setting when using digital connections. A 48 kHz signal is output regardless of the audio sampling frequency. A 96 kHz signal is converted to a 48 kHz signal. (Initial setting)
96kHz	Select this setting when using analog connections. The signal is output with the same frequency as the audio sampling frequency. With a 96 kHz signal, you can enjoy exceptionally high sound quality.

4. **Click the joystick.**
   The selected audio output setting is set.

Note:
- With discs featuring 96 kHz recording, if you select the “96kHz” setting, audio is not output from digital output.
- With discs do not feature a CSS (Content Scrambling System) copy guard signal, a 96 kHz digital signal is output.
- Pressing the RETURN button takes you back to the previous display.

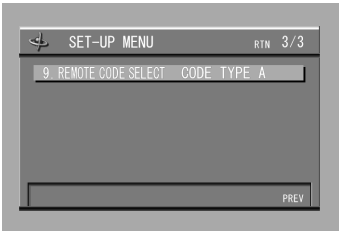
Setting Remote Control Code Type (REMOTE CODE SELECT) DVD

When using this product with a Pioneer DVD player, set the remote code of the supplied remote control to enable operation of this product only. There are two remote codes, CODE TYPE A and CODE TYPE B. When using this product with an "XDV-P90" Multi-DVD Player, select CODE TYPE B. When using this product with a DVD navigation unit, select CODE TYPE A.

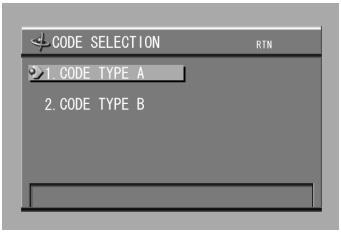
Precaution:

- When changing the code type, set the dipswitches of the remote control to the same setting. (See page 141.)
- When using in combination with the "XDV-P90", set the "XDV-P90" to the STAND ALONE mode.

1. **Switch to the third SET UP MENU to select the "REMOTE CODE SELECT" .**
   "REMOTE CODE SELECT" is indicated in blue. (For details, see page 115.)
2. **Click the joystick.**
   Code type selection menu is displayed.



3. **Move the joystick up/down to select the desired code type.**
   The currently set code type is indicated the mark "". The code type selected with the joystick is indicated in blue.
4. **Click the joystick.**
   The selected code type is set.



Note:

- Pressing the RETURN button takes you back to the previous display.

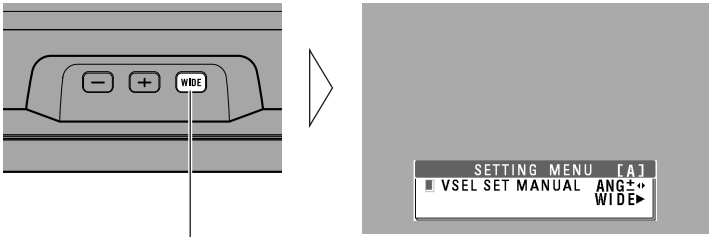
Setting the Display

Operating the Setting Menu

Entering the Display Setting Menu

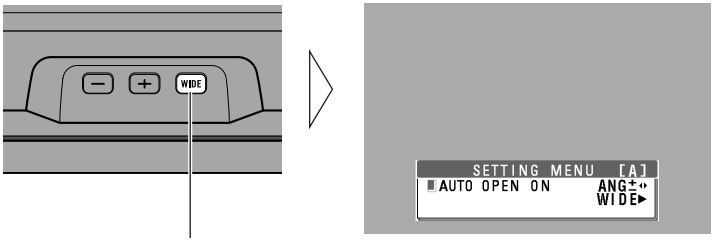
Perform display and picture setting with this menu. You cannot operate this menu with remote controller. Use the Display buttons.

1. Enter the Display Setting Menu.



Hold for 2 seconds

2. Select the desired mode in the following order:



Each press changes the Mode ...

VSEL SET → AUTO OPEN → BRIGHT → COLOR* → HUE* → DIMMER

To cancel the Display Setting Menu, press the WIDE button again for 2 seconds.

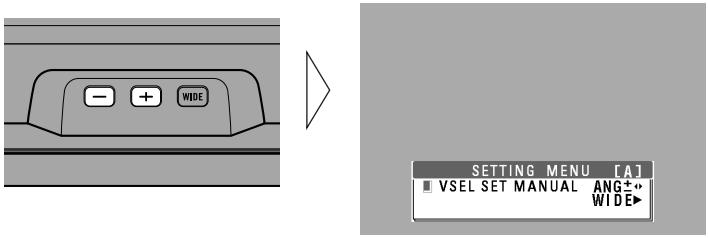
Note:

- After entering the Display Setting Menu, if you do not perform an operation within about 30 seconds, the Display Setting Menu is automatically canceled.
- When the video source is RGB or VSEL SET is “AVM”, you can not switch the “COLOR” and “HUE”.

Switching the Video Select Setting

You can change the video select setting. With this system, you are recommended to select the "AVM" setting.

1. **Press the WIDE button and select the video select mode (VSEL SET) in the Display Setting Menu.**
2. **Switch to the desired video select setting in the following order:**



AUTO ↔ MANUAL ↔ AVM

■ AUTO

When the AV Receiver source is switched to a component connected to the AV-BUS, output automatically switches to video from that component.

■ MANUAL

You can switch between VCR and AV with the V.SOURCE button. (Refer to page 26.)

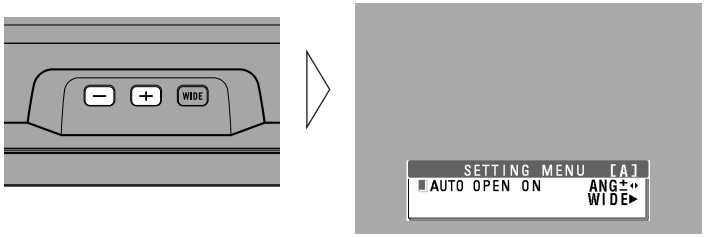
■ AVM

This prevents switching from video from a component connected to the RGB input.

Setting the Automatic Open Mode

To prevent the display from hitting the shift lever of an automatic vehicle when it is in the "P" (park) position, or when you do not wish opening/closing of the display to be carried out automatically, you can switch this function ON/OFF.

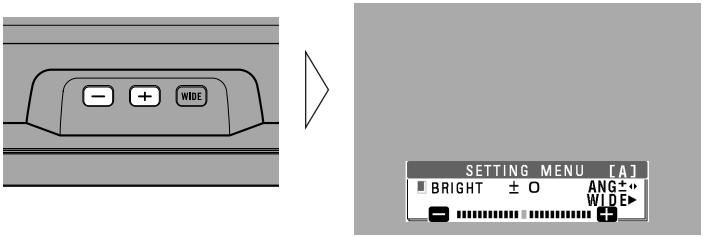
1. **Press the WIDE button and select the automatic open mode (AUTO OPEN) in the Display Setting Menu.**
2. **Switch the automatic open ON/OFF.**



Adjusting the Bright

You can adjust the bright of the picture.

1. **Press the WIDE button and select the Bright mode (BRIGHT) in the Display Setting Menu.**
2. **Adjust the Bright.**



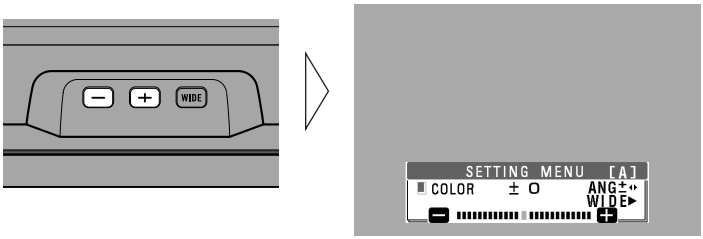
Note:

- The density of the display black can be adjusted within the range of "–24" to "+24."
- The adjustment values are recorded separately for the AV, VCR and RGB video. The adjustment values of a component (AV) connected to the AV-BUS input are also recorded separately. Adjustment values are recorded when the vehicle lights are off (bright daylight) or on (dark night) respectively.

Adjusting the Color

You can adjust the color of the picture.

1. **Press the WIDE button and select the Color mode (COLOR) in the Display Setting Menu.**
2. **Adjust the Color.**



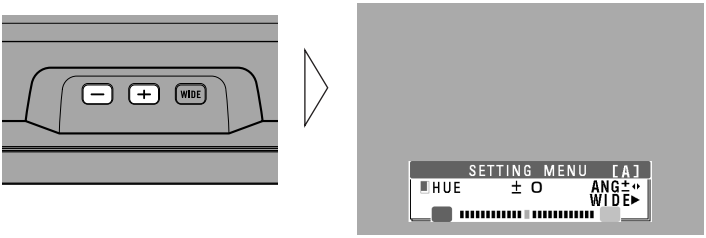
Note:

- "–24" to "+24" is displayed as it shifts from light color to dark color.
- The adjustment values are recorded separately for the AV, VCR and RGB video. The adjustment values of a component (AV) connected to the AV-BUS input are also recorded separately. Adjustment values are recorded when the vehicle lights are off (bright daylight) or on (dark night) respectively.

Adjusting the Hue

You can adjust the hue of the picture.

1. **Press the WIDE button and select the Hue mode (HUE) in the Display Setting Menu.**
2. **Adjust the Hue.**



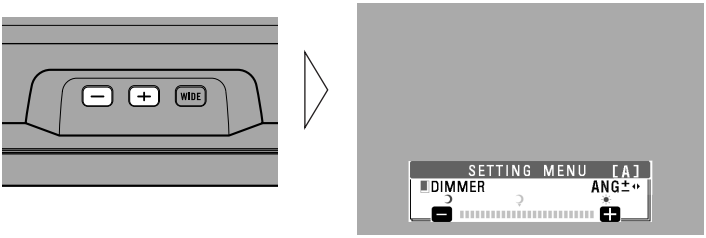
Note:

- The display changes within a range from "–24" to "+24" as the distinction of the picture changes from reddish to greenish.
- The adjustment values are recorded separately for the AV, VCR and RGB video. The adjustment values of a component (AV) connected to the AV-BUS input are also recorded separately. Adjustment values are recorded when the vehicle lights are off (bright daylight) or on (dark night) respectively.

Adjusting the Dimmer

The brightness of the LCD screen can be adjusted automatically to the brightness you set to match the ambient brightness. Separate adjustment values can be recorded for bright conditions (yellow) as well as dark conditions (blue).
The brightness of the LCD screen will be adjusted automatically in accordance with the ambient brightness based on the setting values.
The adjusted value is memorized when the setting screen disappears.

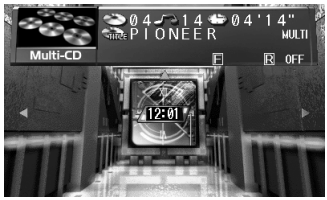
1. **Press the WIDE button and select the Dimmer mode (DIMMER) in the Display Setting Menu.**
2. **Adjust the Dimmer.**



Other Functions of AV Receiver

Switching the Center Screen and Time Display in the Center Room

You can change the center screen to show a simple source information, time display in addition to 9 different video clips.



1. **Select the desired Display by clicking the joystick.**

   Each click changes the center screen in the following order:

   Video clips ➞ Simple source information ➞ Time display

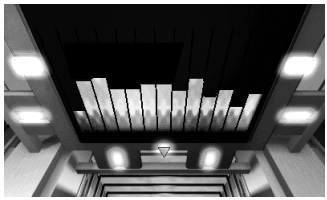
2. **Select a desired video clip by moving the joystick down when the video clip is playing.**

Note:

- A simple source information shows nothing when the Source Plate is displayed.

Switching the Color of the Spectrum Analyzer

You can select a color for the spectrum analyzer from among 6 options.



1. **Move the joystick up.**

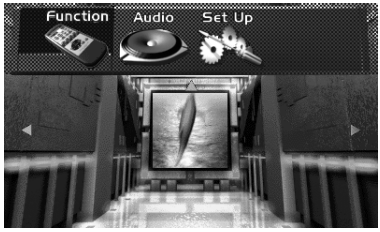
   The spectrum analyzer appears.

2. **Click the joystick.**

   Each click changes the color of the spectrum analyzer in sequence.

Listening Sounds or Viewing Images from Additional Units

Accessing the Set Up Menu



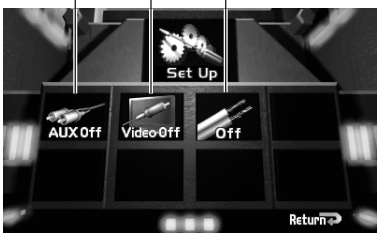
1. **Press the MENU button.**
   The main menu icons whirl down,with "Function" highlighted in green.
2. **Select "Set Up" by moving the joystick.**
   "Set Up" is highlighted in green.
3. **Click the joystick.**
   The Set Up Menu appears.

■ Set Up Menu

Switching the Video Mode
(See page 135.)

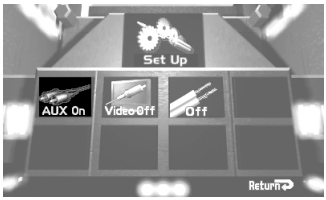
Switching the Aux Source
(See below.)

Switching the Speaker Input Mode
(See page 135.)



Switching the AUX Source

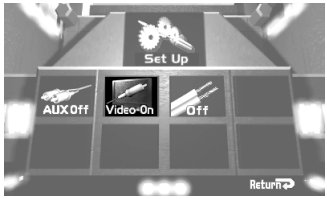
An IP-BUS-RCA Interconnector such as CD-RB20 or CD-RB10 (sold separately) enables you to connect the AV Receiver to auxiliary equipment featuring an RCA output.
For more details, refer to the IP-BUS-RCA Interconnector's Owner's Manual.



1. **Check to see "AUX" is currently highlighted.**
   If not, select that option by moving the joystick.
   "AUX" is highlighted in green.
2. **Click the joystick.**
   Each click toggles AUX On/Off.
3. **Press the RETURN button.**
   You go back to the Center Room.
4. **Select "AUX" by pressing the SOURCE button.**

Switching the Video Mode

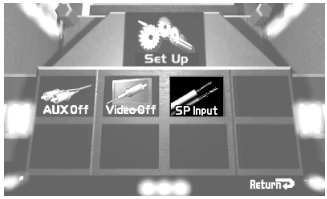
When connecting an external video component to the video input, switch the Video mode ON.



1. **Select "Video" by moving the joystick.**
   "Video" is highlighted in green.
2. **Click the joystick.**
   Each click toggles Video On/Off.
3. **Press the RETURN button.**
   You go back to the Center Room.
4. **Select the "Video" by pressing the SOURCE button.**

Switching the Speaker Input Mode

When connecting auxiliary equipment to the speaker input terminal, switch the Speaker Input mode ON.

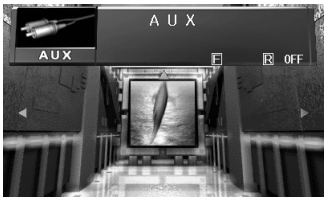


1. **Select "Off" by moving the joystick.**
   "Off" is highlighted in green.
2. **Click the joystick.**
   Each click toggles SP Input/Off.
3. **Press the RETURN button.**
   You go back to the Center Room.
4. **Select the "SP Input" by pressing the SOURCE button.**

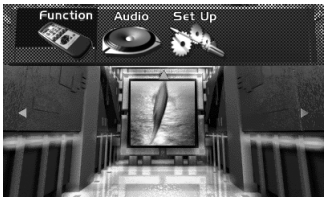
AUX Title Input

The display title for AUX source can be changed.

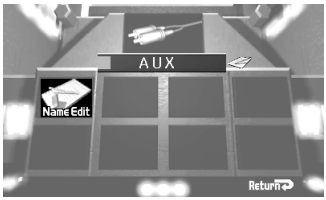
1. **Select "AUX" by pressing the SOURCE button.**



2. **Press the MENU button.**
   The main menu icons whirl down, with "Function" highlighted in green.
3. **Click the joystick.**
   The Function Menu appears, with "Name Edit" highlighted in green.



4. **Click the joystick.**
   The title edit display appears on the screen.
5. **Input the Aux Title.**
   Refer to "Disc Title Input" on page 63, and perform procedures 5 to 8 in the same way.



Muting Function

Navigation Unit Muting

In the following cases, sound from this product's front speakers are muted automatically:

- When the guidance audio is output from Navigation Unit connected to this product. (The guidance audio is output with muted source sound.)
- When you operate the Navigation Unit connected to this product by voice.
- The guidance audio from the Navigation Unit cannot be heard such as when the DVD Player is selected as the source and no sounds are being played back (as when a disc menu or a set-up menu is displayed).

Cellular Telephone Muting

Sound from this system is muted automatically when a call is made or received using a cellular telephone connected to this product.
The sound is turned off, "MUTE" is displayed and no audio adjustment is possible. Operation returns to normal when the phone connection is ended.

Others

Using the Display Correctly

⚠CAUTION

- **If moisture or foreign matter should get inside the product, turn OFF the power immediately and consult your dealer or the nearest authorized PIONEER Service Station. Using the product in this condition may result in a fire or electric shock, or other failure.**
- **If you notice smoke, a strange noise or smell, or any other abnormal signs from the display, turn OFF the power immediately and consult your dealer or the nearest authorized PIONEER Service Station. Using the product in this condition may result in failure of the system.**
- **Do not remove the rear cover of the display, as there are high-voltage components inside which may cause an electric shock. Be sure to consult your dealer or the nearest authorized PIONEER Service Station for internal inspection, adjustments or repairs.**

Handling the Display

- When the display is subjected to direct sunlight for a long period of time, it will become very hot resulting in possible damage to the LCD screen. When not using this product, close the display and avoid exposing it to direct sunlight as much as possible.
- The display should be used within the temperature ranges shown below.
  Operating temperature range: –20 to +60° C
  Storage temperature range: –40 to +85° C
  At temperatures higher or lower than the operating temperature range the display may not operate normally.
- The LCD screen of this product is exposed in order to increase its visibility within the vehicle. Please do not press strongly on it as this may damage it.
- Do not place anything on the display when it is deployed. Also, do not attempt to carry out angle adjustment, or opening/closing of the display by hand. Applying strong force to the display may damage it.
- Do not touch the LCD screen as this may scratch it or dirty it.
- Be careful not to place anything between the display and the main body when the display is opening or closing. If an object gets between the display and main body, the display may stop working.

About the Liquid Crystal Display (LCD) Screen

- If the display is near the vent of an air conditioner when it is deployed, make sure that air from the air conditioner is not blowing on it. Heat from the heater may break the LCD screen, and cool air from the cooler may cause moisture to form inside the display resulting in possible damage. Also, if the display is cooled down by the cooler, the screen may become dark, or the life span of the small fluorescent tube used inside the display may be shortened.
- Small black dots or white dots (bright dots) may appear on the LCD screen. These are due to the characteristics of the LCD screen and do not indicate a problem with the display.
- At low temperatures, the LCD screen may be dark for a while after the power is turned ON.
- The LCD screen will be difficult to see if it is exposed to direct sunlight.
- When using a portable phone, keep the antenna of the portable phone away from the Display to prevent disruption of the video by the appearance of spots, colored stripes, etc.

Keeping the Display in Good Condition

- When removing dust from the screen or cleaning the display, first turn the system power OFF, then wipe with a soft dry cloth.
- When wiping the screen, take care not to scratch the surface. Do not use harsh or abrasive chemical cleaners.

About the Small Fluorescent Tube

- A small fluorescent tube is used inside the display to illuminate the LCD screen.
  * The fluorescent tube should last for approximately 10,000 hours, depending on operating conditions. (Using the display at low temperatures reduces the service life of the fluorescent tube.)
  * When the fluorescent tube reaches the end of its useful life, the screen will be dark and the image will no longer be projected. If this happens, consult your dealer or the nearest authorized PIONEER Service Station.

If You Forget Your Code Number

Refer to “Changing the Level”, step 3 on page 123, and press the CLEAR button 10 times. The registered code number is canceled, letting you register a new one.

Error Message

When problems occur with disc playback, an error message appears on the display. Refer to the table below to identify the problem, then take the suggested corrective action. If the error persists, contact your dealer or your nearest PIONEER Service Center.

Message (error number)	When this message is displayed	Remedy
ERROR-02	The disc is dirty.	Wipe the disc clean. (See page 16.)
	The disc is scratched.	If the disc is scratched, replace it with another. (See page 16.)
THERMAL PROTECTION IN MOTION	The temperature of this unit is outside of the normal operating range.	Wait until the unit’s temperature returns to within normal operating limits.
DIFFERENT REGION DISC	The disc does not have the same region number as this unit.	Replace the DVD with one bearing the correct region number.
NON-PLAYABLE DISC	This type of disc (CD-ROM etc.) cannot be played by this unit.	Replace the disc with one this unit can play. (See page 12.)
	The disc is loaded upside down.	Check that the disc is loaded correctly.

Language Code Chart

DVD

Language (code)	Input code
Japanese (ja)	1001
English (en)	0514
French (fr)	0618
Spanish (es)	0519
German (de)	0405
Italian (it)	0920
Chinese (zh)	2608
Dutch (nl)	1412
Portuguese (pt)	1620
Swedish (sv)	1922
Russian (ru)	1821
Korean (ko)	1115
Greek (el)	0512
Afar (aa)	0101
Abkhazian (ab)	0102
Afrikaans (af)	0106
Amharic (am)	0113
Arabic (ar)	0118
Assamese (as)	0119
Aymara (ay)	0125
Azerbaijani (az)	0126
Bashkir (ba)	0201
Byelorussian (be)	0205
Bulgarian (bg)	0207
Bihari (bh)	0208
Bislama (bi)	0209
Bengali (bn)	0214
Tibetan (bo)	0215
Breton (br)	0218
Catalan (ca)	0301
Corsican (co)	0315
Czech (cs)	0319
Welsh (cy)	0325
Danish (da)	0401
Bhutani (dz)	0426
Esperanto (eo)	0515
Estonian (et)	0520
Basque (eu)	0521
Persian (fa)	0601
Finnish (fi)	0609
Fiji (fj)	0610
Faroese (fo)	0615
Frisian (fy)	0625
Irish (ga)	0701
Scots-Gaelic (gd)	0704
Galician (gl)	0712
Guarani (gn)	0714
Gujarati (gu)	0721

Language (code)	Input code
Hausa (ha)	0801
Hindi (hi)	0809
Croatian (hr)	0818
Hungarian (hu)	0821
Armenian (hy)	0825
Interlingua (ia)	0901
Interlingue (ie)	0905
Inupiak (ik)	0911
Indonesian (in)	0914
Icelandic (is)	0919
Hebrew (iw)	0923
Yiddish (ji)	1009
Javanese (jw)	1023
Georgian (ka)	1101
Kazakh (kk)	1111
Greenlandic (kl)	1112
Cambodian (km)	1113
Kannada (kn)	1114
Kashmiri (ks)	1119
Kurdish (ku)	1121
Kirghiz (ky)	1125
Latin (la)	1201
Lingala (ln)	1214
Laothian (lo)	1215
Lithuanian (lt)	1220
Latvian (lv)	1222
Malagasy (mg)	1307
Maori (mi)	1309
Macedonian (mk)	1311
Malayalam (ml)	1312
Mongolian (mn)	1314
Moldavian (mo)	1315
Marathi (mr)	1318
Malay (ms)	1319
Maltese (mt)	1320
Burmese (my)	1325
Nauru (na)	1401
Nepali (ne)	1405
Norwegian (no)	1415
Occitan (oc)	1503
Oromo (om)	1513
Oriya (or)	1518
Panjabi (pa)	1601
Polish (pl)	1612
Pashto, Pushto (ps)	1619
Quechua (qu)	1721
Rhaeto-Romance (rm)	1813
Kirundi (rn)	1814

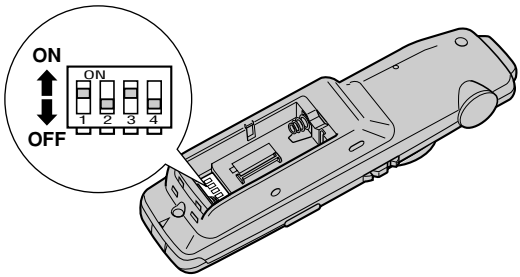
Language (code)	Input code
Romanian (ro)	1815
Kinyarwanda (rw)	1823
Sanskrit (sa)	1901
Sindhi (sd)	1904
Sangho (sg)	1907
Serbo-Croatian (sh)	1908
Sinhalese (si)	1909
Slovak (sk)	1911
Slovenian (sl)	1912
Samoan (sm)	1913
Shona (sn)	1914
Somali (so)	1915
Albanian (sq)	1917
Serbian (sr)	1918
Siswati (ss)	1919
Sesotho (st)	1920
Sundanese (su)	1921
Swahili (sw)	1923
Tamil (ta)	2001
Telugu (te)	2005
Tajik (tg)	2007
Thai (th)	2008
Tigrinya (ti)	2009
Turkmen (tk)	2011
Tagalog (tl)	2012
Setswana (tn)	2014
Tonga (to)	2015
Turkish (tr)	2018
Tsonga (ts)	2019
Tatar (tt)	2020
Twi (tw)	2023
Ukrainian (uk)	2111
Urdu (ur)	2118
Uzbek (uz)	2126
Vietnamese (vi)	2209
Volapük (vo)	2215
Wolof (wo)	2315
Xhosa (xh)	2408
Yoruba (yo)	2515
Zulu (zu)	2621

Setting the Remote Control

If you have changed the DVD Player's remote control code type (see page 128), reset the remote control's dipswitches. Also, when using a Pioneer Navigation Unit, if you set the remote control's operation mode switch to "NAVI", you can use it to control the Navigation Unit.

Setting the Dipswitches

When you remove the battery cover of the remote control, you will see the dipswitches as shown in the following illustration. You can set each dipswitch using the tip of a ballpoint pen.

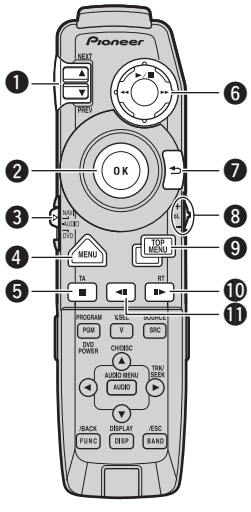


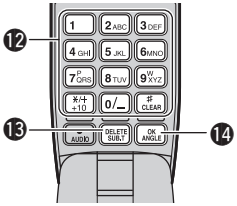
When the remote control code type (see page 128) is A, set switch 3 to the ON position. When the code type is B, set switch 3 to the OFF position.

Note:

- Switch 1 is usually ON, and switch 2 is usually OFF.
- If switch 4 is ON, when you set the operation mode switch to "NAVI" you can adjust the volume of the Navigation System's voice guidance. It's convenient if you usually set switch 4 to the OFF position.

Using it as a Navigation System Remote Control





❶ Scale controller
❷ Joystick/OK button
❸ Remote control operation mode switch
❹ NAVI button
❺ DETOUR button
❻ TALK button
❼ BACK button
❽ VOL dial
❾ MENU button
❿ GUIDE button
⓫ CANCEL ROUTE button
⓬ Numeric keypad
⓭ DELETE button
⓮ OK button for numeric keypad

Troubleshooting

If you think there is something wrong with the unit.
Before requesting repairs, check the following chart.

➡

If the problem remains even after checking.
Reset the unit. (See page 10.)

➡

If the problem still remains.
Request repairs.

■ General

Symptom	Cause	Remedy
Power doesn't switch ON. The unit doesn't operate.	Leads and connectors are incorrectly connected.	Confirm once more that all connections are correct.
	A fuse has blown.	Fix the problem causing the blown fuse, and replace the old fuse with a new one of the same capacity.
	Noise and other factors are causing the built-in microprocessor to operate incorrectly.	Press the RESET button. (See page 10.)
Operation with the remote control isn't possible. The unit does not operate correctly even when the appropriate remote control buttons are pressed.	The remote control operation mode is incorrect.	Switch to the correct remote control mode. (See pages 19 and 20.)
	The remote control code is incorrect.	Make sure the remote control dipswitches setting and code type setting are the same. (Refer to pages 128 and 141.)
	Battery power is low.	Load new batteries. (See page 21.)
	Some operations are prohibited with certain discs.	Check using another disc.
No sounds are heard. The volume level will not rise.	Cables are not connected correctly.	Connect the cables correctly.
	The volume is turned all the way down.	Increase the volume. (See page 28.)
	The front, rear, left and right speakers are not properly adjusted in level balance.	Adjust the relative levels between the speakers correctly. (See page 93.)

■ General (continued from previous page)

Symptom	Cause	Remedy
Sound is not heard over a specific speaker.	The speaker's Size is set to OFF.	Make the correct Size setting for the speaker. (See page 94.)
	The speaker's Level is set to too low a position.	Increase the speaker's Level setting to get the balance right with the other speakers. (See pages 102 and 106.)
	The center speaker's Size is set to SMALL or LARGE whereas no center speaker is installed.	Set the center speaker's Size to OFF. (See page 94.)
There's no picture.	The parking brake cord is not connected.	Connect a parking brake cord, and apply the parking brake.
	The parking brake is not applied.	

■ Audio/DSP

Symptom	Cause	Remedy
Speakers are not available to be adjusted.	Their Size settings is at OFF.	Make the correct Size settings. (See page 94.)
Time Alignment is not available.	Listening Position is not set correctly.	Set Listening Position correctly. (See page 93.)
	Their Size settings is at OFF.	Make the correct Size settings. (See page 94.)
The subwoofer is not available to switch its phase.	The subwoofer is set to OFF.	Set the subwoofer to the ON position. (See page 94.)
Bass content is not heard.	The subwoofer is set to OFF and yet other speakers are set to OFF or SMALL in Size.	Make the correct settings. (If no subwoofer is installed, the front or rear speaker needs set to LARGE.) (See page 94.)

■ Audio/DSP (continued from previous page)

Symptom	Cause	Remedy
Occasionally no sounds are output when Dolby Pro Logic is switched on.	The center speaker setting is at SMALL or LARGE whereas no center speaker is installed.	Change the center speaker's Size setting to OFF. (If the audio source is mono and Dolby Pro Logic is switched on, sound is heard over the center speaker only.) (See page 94.)
Occasionally no sounds are heard over other speakers than the center one.	Dolby Pro Logic is switched on.	Set Dolby Pro Logic to OFF. (If the audio source is mono and Dolby Pro Logic is switched on, sound is heard over the center speaker only.) (See page 99.)
Switching Dynamic Range Control ON has no effects.	The currently reproduced sound is not Dolby Digital coded.	The feature is only effective on Dolby Digital sounds. (See page 99.)

■ DVD Player

Symptom	Cause	Remedy
No sounds come from the DVD player only.	The optical cable has become detached.	Connect the cable correctly.
Playback is not possible.	The disc is dirty.	Clean the disc. (See page 16.)
	The loaded disc is a type this unit cannot play.	Check what type the disc is.
	Non compatible video system disc is loaded.	Change to a disc compatible to your video system.
	The loaded disc has a different region number from this unit.	Replace the disc with one featuring the same region number as this unit. (See page 13.)
There's no sound.	Connections are incorrect.	Check connections.
	With some discs, 96 kHz output is prohibited.	Switch the output setting to 48 kHz. (See page 127.)
	The unit is performing Still, Slow Motion or Frame-By-Frame playback.	There is no sound during Still, Slow Motion or Frame-By-Frame playback.

■ DVD Player (continued from previous page)

Symptom	Cause	Remedy
The prohibited mark "⃠" is displayed, and operation is not possible.	The operation is prohibited for the disc.	This operation is not possible.
	The operation is not compatible with the disc's organization.	
The picture stops (pauses) and the unit cannot be operated.	Reading of data has become impossible during playback.	After pressing the STOP (■) button once, start playback once more.
There's audio and video skipping.	This unit is not firmly secured.	Secure this unit firmly.
The picture is stretched, the aspect is incorrect.	The aspect setting is incorrect for the display.	Select the appropriate setting for your display. (See page 124.)
Rear display picture disappears.	The source disc being listened to with the head unit has been ejected.	Before ejecting the disc, switch the source. This problem may occur when certain connection methods are used.
When the ignition switch is turned ON (or turned to ACC), the motor sounds.	This product confirms whether a disc is loaded or not.	This is a normal operation.
A Parental Lock message is displayed and playback is not possible.	Parental Lock is ON.	Switch Parental Lock OFF or change the level. (See page 121.)
Parental Lock cannot be canceled.	The code number is incorrect.	Input the correct code number. (See page 123.)
	You have forgotten your code number.	Press the CLEAR button 10 times to cancel the code number. (See page 139.)
Dialog language (and subtitle language) cannot be switched.	The DVD playing does not feature multiple language recordings.	You cannot switch among multiple languages if they aren't recorded on the disc.
	You can only switch between options indicated in the disc menu.	Switch using the disc menu.
No subtitles are displayed.	The DVD playing does not feature subtitles.	Subtitles are not displayed if they are not recorded on the disc.
	You can only switch between options indicated in the disc menu.	Switch using the disc menu.

■ DVD Player (continued from previous page)

Symptom	Cause	Remedy
Playback is not with the audio language and subtitle language settings selected in the SET UP MENU.	The DVD playing does not feature dialog or subtitles in the language selected in the SET UP MENU.	Switching to a selected language is not possible if the language selected in the SET UP MENU is not recorded on the disc.
Switching the viewing angle is not possible.	The DVD playing does not feature scenes shot from multiple angles.	You cannot switch between multiple angles if the DVD does not feature scenes recorded from multiple angles.
	You are trying to switch to multiple angle viewing of a scene that is not recorded from multiple angles.	Switch between multiple angles when watching scenes recorded from multiple angles.
The picture is extremely unclear/distorted and dark during playback.	The disc features a signal to prohibit copying. (Some discs may have this.)	Since this product is compatible with the copy guard analog copy protect system, when playing a disc that has a signal prohibiting copying, the picture may suffer from horizontal stripes or other imperfections when viewed on some displays. This does not mean this product is malfunctioning.

■ Problems during Video CD playback

Symptom	Cause	Remedy
The PBC (Playback Control) menu display cannot be called up.	The Video CD playing does not feature PBC.	This operation is not possible with Video CDs not featuring PBC.
	PBC is switched OFF.	Switch PBC ON. (See page 75.)
Repeat play and Track/Time Search are not possible.	PBC is switched ON.	Switch PBC OFF. (See page 75.)

Terms

Aspect Ratio

This is the width-to-height ratio of a TV screen. A regular display has an aspect ratio of 4:3. Wide-screen displays have an aspect ratio of 16:9, providing a bigger picture for exceptional presence and atmosphere.

Chapter

DVD titles are in turn divided into chapters which are numbered in the same way as the chapters of a book. With DVDs featuring chapters, you can quickly find a desired scene with Chapter Search.

Dolby Digital

Dolby Digital provides multi-channel audio from up to 5.1 independent channels. This system is the same as the Dolby Digital surround sound system used in theaters.
To enjoy Dolby Digital entertainment, you must connect the DVD player's optical digital output jacks to the optical digital input jacks of the AV Receiver.

Dolby Surround Pro Logic

When you play a 2-channel audio disc marked Dolby Surround Pro Logic using an AV amplifier equipped for Dolby Pro Logic, the audio is converted into 4-channel audio.
Dolby Pro Logic gives enhanced spatial and directional effects, creating theater-like sense of presence and ambience.

DTS for Digital Theater Surround

This stands for Digital Theater Systems. DTS is a surround system delivering multi-channel audio from up to 6 independent sources.
To enjoy discs featuring DTS audio recording, you must connect the DVD player's optical digital output jacks to the optical digital input jacks of the AV Receiver.

Dynamic Range Control

Dolby Digital has a function for compressing the difference between the loudest and softest sounds: Dynamic Range Control. This control ensures sounds with an increased dynamic range are heard clearly even at low volume levels.

Linear PCM (LPCM)

This stands for Linear Pulse Code Modulation, which is the signal recording system used for music CDs. Compared to music CDs, which feature 44.1 kHz/16-bit recordings, DVDs feature 48 kHz/16-bit – 96 kHz/24-bit recordings. The result is sound quality even higher than that provided by music CDs.

MPEG

This stands for Moving Pictures Experts Group, and is an international video image compression standard. Some DVDs feature digital audio compressed and recorded using this system.

Multi-Angle

With regular TV programs, although multiple cameras are used to simultaneously shoot scenes, only images from one camera at a time are transmitted to your TV. Some DVDs feature scenes shot from multiple angles, letting you choose your viewing angle as desired.

Multi-Audio (Multilingual Dialog)

Some DVDs feature dialog recorded in multiple languages. Dialog in up to 8 languages can be recorded on a single disc, letting you choose as desired.

Multi-Subtitle

Subtitles in up to 32 languages can be recorded on a single DVD, letting you choose as desired.

Optical Digital Output

By transmitting the audio signal as a digital signal, it's possible to minimize any loss of sound quality. Optical digital output refers to the transmission (output) of a digital audio signal via optical cable.

Parental Lock

Some DVDs with violent or adult-oriented scenes feature parental lock which prevents children from viewing such scenes. With this kind of disc, if you set this unit's parental lock level, playback of scenes inappropriate for children will not be possible, or these scenes will be skipped.

Playback Control (PBC)

This is a playback control signal recorded on Video CDs (Version 2.0). Using menu displays provided by Video CDs with PBC lets you enjoy playback of simple interactive software and software with search functions. You can also enjoy viewing high- and standard-resolution still images.

Region Number

DVD players and DVD discs feature region numbers indicating the area in which they were purchased. Playback of a DVD is not possible unless it features the same region number as the DVD player. This unit's region number is displayed top of the DVD player.

Title

DVDs have a high data capacity, enabling recording of multiple movies on a single disc. If, for example, one disc contains three separate movies, they are divided into Title 1, Title 2 and Title 3. This lets you enjoy the convenience of Title Search and other functions.

Installation

Connecting the Units

Note:

- This unit is for vehicles with a 12-volt battery and negative grounding. Before installing it in a recreational vehicle, truck, or bus, check the battery voltage.
- To avoid shorts in the electrical system, be sure to disconnect the ⊖ battery cable before beginning installation.
- Refer to each product's manual for details on connecting the power amp and other units, then make connections correctly.
- Secure the wiring with cable clamps or adhesive tape. To protect the wiring, wrap adhesive tape around them where they lie against metal parts.
- Route and secure all wiring so it cannot touch any moving parts, such as the gear shift, handbrake and seat rails. Do not route wiring in places that get hot, such as near the heater outlet. If the insulation of the wiring melts or gets torn, there is a danger of the wiring short-circuiting to the vehicle body.
- Don't pass the yellow lead through a hole into the engine compartment to connect to the battery. This will damage the lead insulation and cause a very dangerous short.
- Do not shorten any leads. If you do, the protection circuit may fail to work when it should.
- Never feed power to other equipment by cutting the insulation of the power supply lead of the unit and tapping into the lead. The current capacity of the lead will be exceeded, causing overheating.
- When replacing fuse, be sure to use only fuse of the rating prescribed on the fuse holder.
- If the RCA pin jack on the unit will not be used, do not remove the caps attached to the end of the connector.
- Since a unique BPTL circuit is employed, never wire so the speaker leads are directly grounded or the left and right ⊖ speaker leads are common.
- Speakers connected to this unit must be high-power types with minimum rating of 45 W and impedance of 4 to 8 ohms. Connecting speakers with output and/or impedance values other than those noted here may result in the speakers catching fire, emitting smoke or becoming damaged.
- When this product's source is switched ON, a control signal is output through the blue/white lead. Connect to an external power amp's system remote control or the car's Auto-antenna relay control terminal (max. 300 mA 12 V DC). If the car features a glass antenna, connect to the antenna booster power supply terminal.
- When an external power amp is being used with this system, be sure not to connect the blue/white lead to the amp's power terminal. Likewise, do not connect the blue/white lead to the power terminal of the auto-antenna. Such connection could cause excessive current drain and malfunction.
- To avoid short-circuiting, cover the disconnected lead with insulating tape. Especially, insulate the unused speaker leads without fail. There is a possibility of short-circuiting if the leads are not insulated.
- To prevent incorrect connection, the input side of the IP-BUS or optical cable connector is blue, and the output side is black. Connect the connectors of the same colors correctly.
- If this unit is installed in a vehicle that does not have an ACC (accessory) position on the ignition switch, the red lead of the unit should be connected to a terminal coupled with ignition switch ON/OFF operations. If this is not done, the vehicle battery may be drained when you are away from the vehicle for several hours.

ACC position

No ACC position

- The black lead is ground. Please ground this lead separately from the ground of high-current products such as power amps.
  If you ground the products together and the ground becomes detached, there is a risk of damage to the products or fire.

- To ensure proper heat dissipation of this product, take special care not to block the cooling fan side of this product.

- Cords for this product and those for other products may be different colors even if they have the same function. When connecting this product to another product, refer to the supplied Installation manuals of both products and connect cords that have the same function.

Routing the Optical Cable

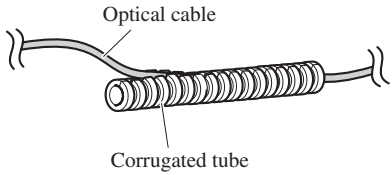
Precaution:

- Try not to bend the optical cable sharply. If it is necessary to bend it sharply, make sure that the bending radius is at least 25 mm (1 in.), otherwise the cable will not transfer signals properly and so this unit will not work properly.
- Route the optical cable so that nothing heavy rests on it, and so that it cannot be stepped on or caught in anything – for instance, a door.
- Make a loop of diameter at least 200 mm (7-7/8 in.) with the remaining optical cable so that the cable does not get strained.
- When plugging the optical cable into the unit, use the supplied cable clamps to prevent the cable from being bent sharply.
- Route the optical cable so that it does not get caught in moving parts such as the gear shift, hand brake, or seat sliding mechanism. Keep the cable away from hot spots, such as near the heater outlet.

■ Using the Corrugated Tube

To prevent the optical cable from being strained, use the corrugated tube after cutting it to the correct length.

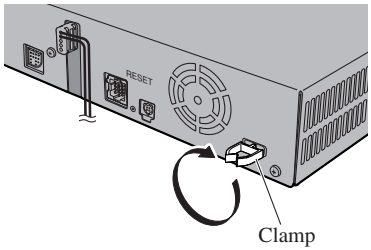
- **Insert the optical cable into the corrugated tube.**



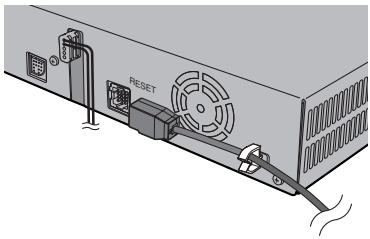
■ Mounting the Clamp

The clamp is used to secure the optical cable when using it.

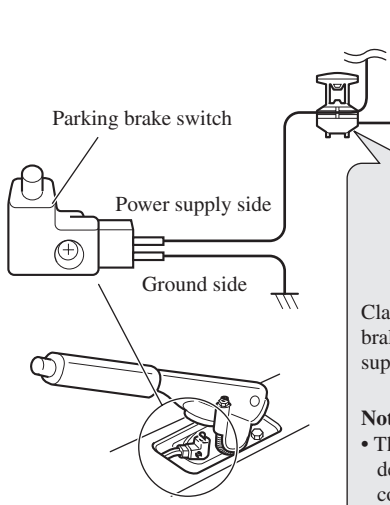
1. **Insert the clamp in the direction indicated in the figure, and turn it 90 degrees to lock.**

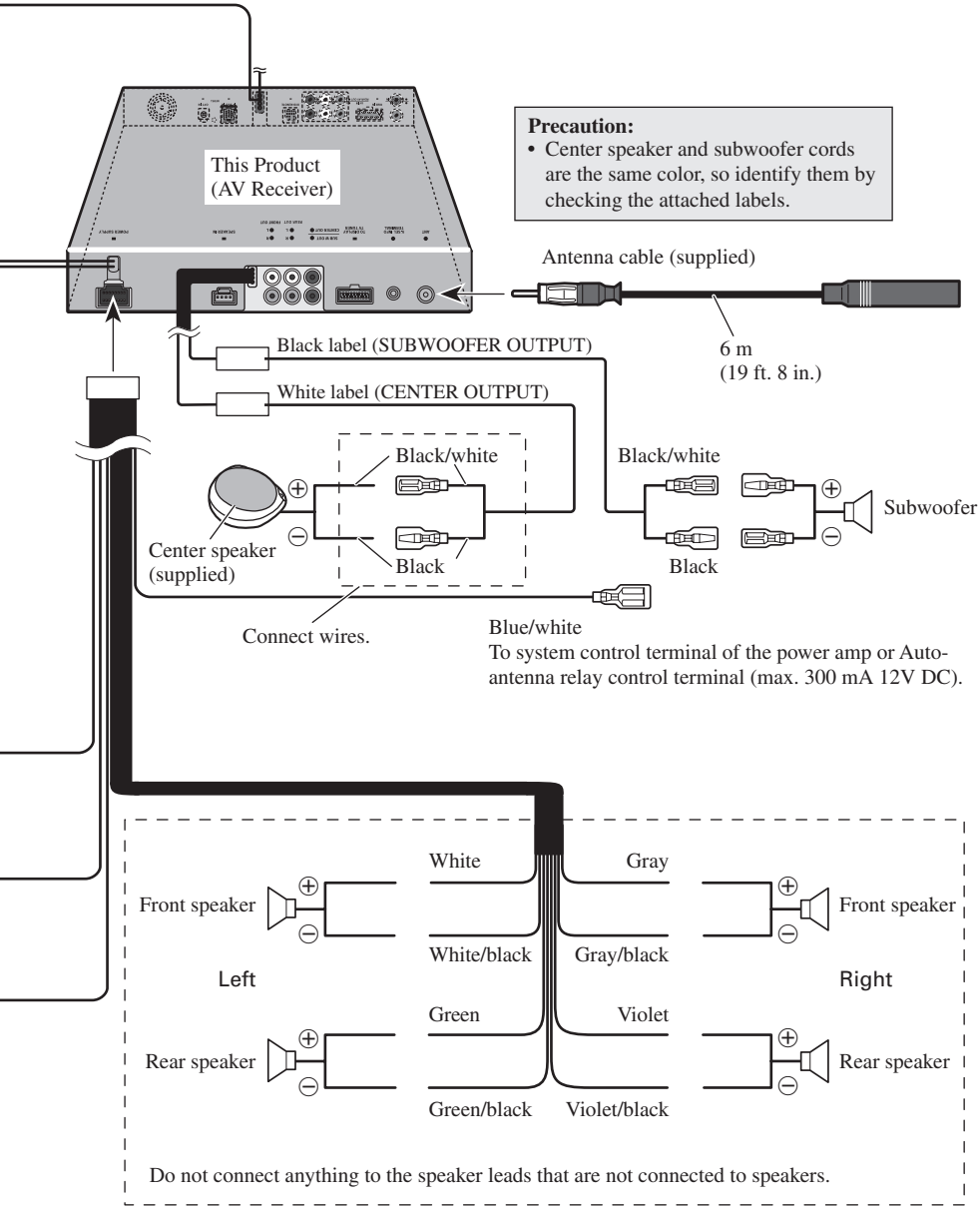


2. **Secure the optical cable.**

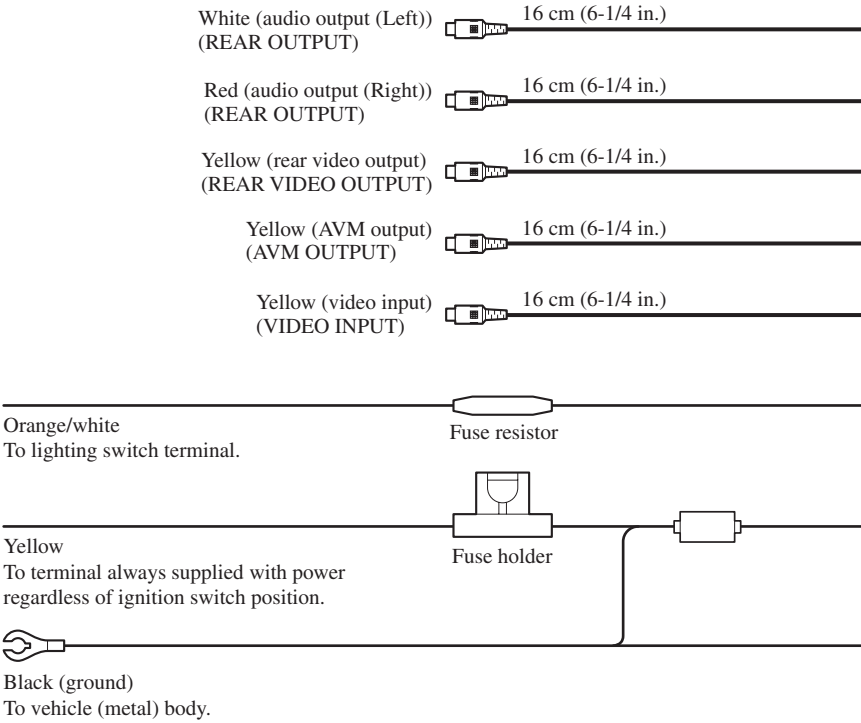


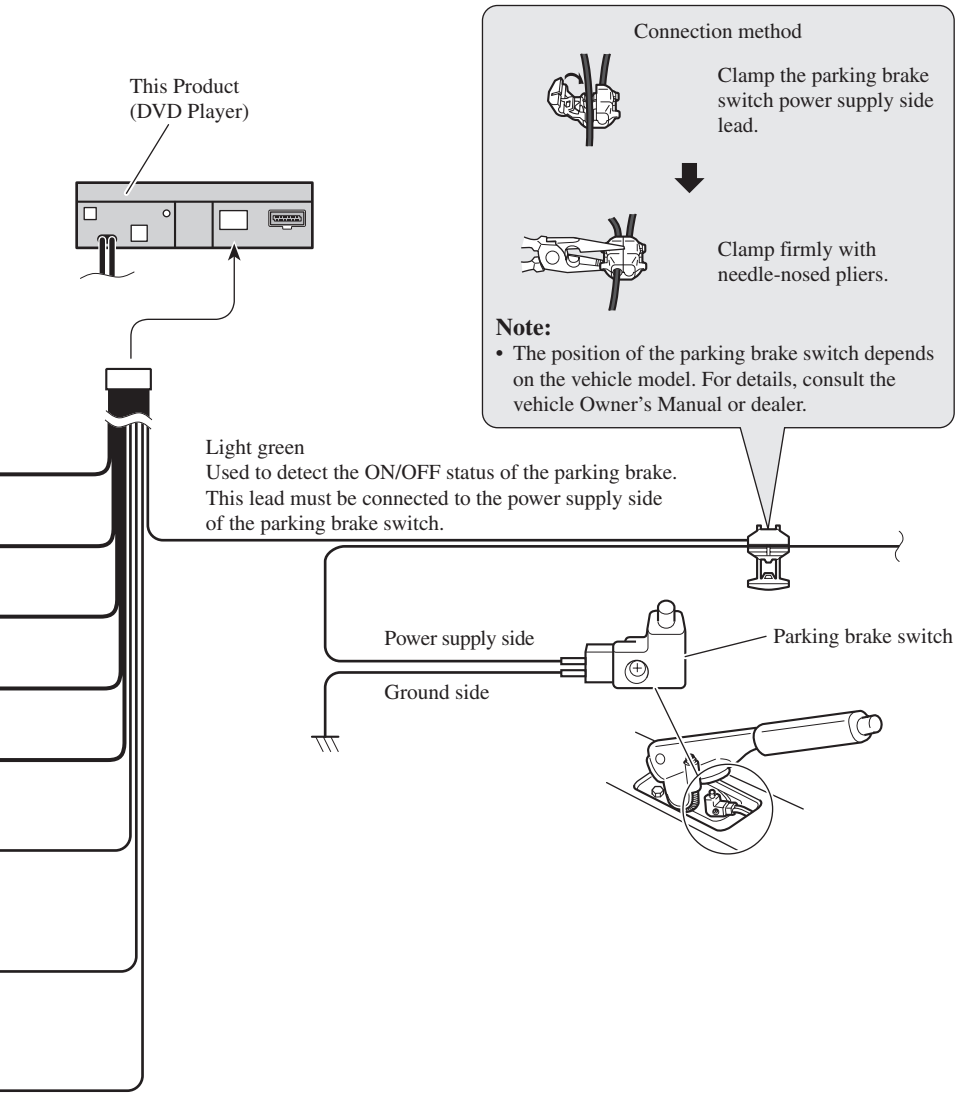
Connecting the Power Cord of AV Receiver




This Product
(AV Receiver)
Precaution:
• Center speaker and subwoofer cords are the same color, so identify them by checking the attached labels.
Antenna cable (supplied)
6 m
(19 ft. 8 in.)
Black label (SUBWOOFER OUTPUT)
White label (CENTER OUTPUT)
Black/white
Black/white
Subwoofer
Center speaker
(supplied)
Black
Black
Connect wires.
Blue/white
To system control terminal of the power amp or Auto-antenna relay control terminal (max. 300 mA 12V DC).
White
Gray
Front speaker
Front speaker
White/black
Gray/black
Left
Right
Green
Violet
Rear speaker
Rear speaker
Green/black
Violet/black
Do not connect anything to the speaker leads that are not connected to speakers.

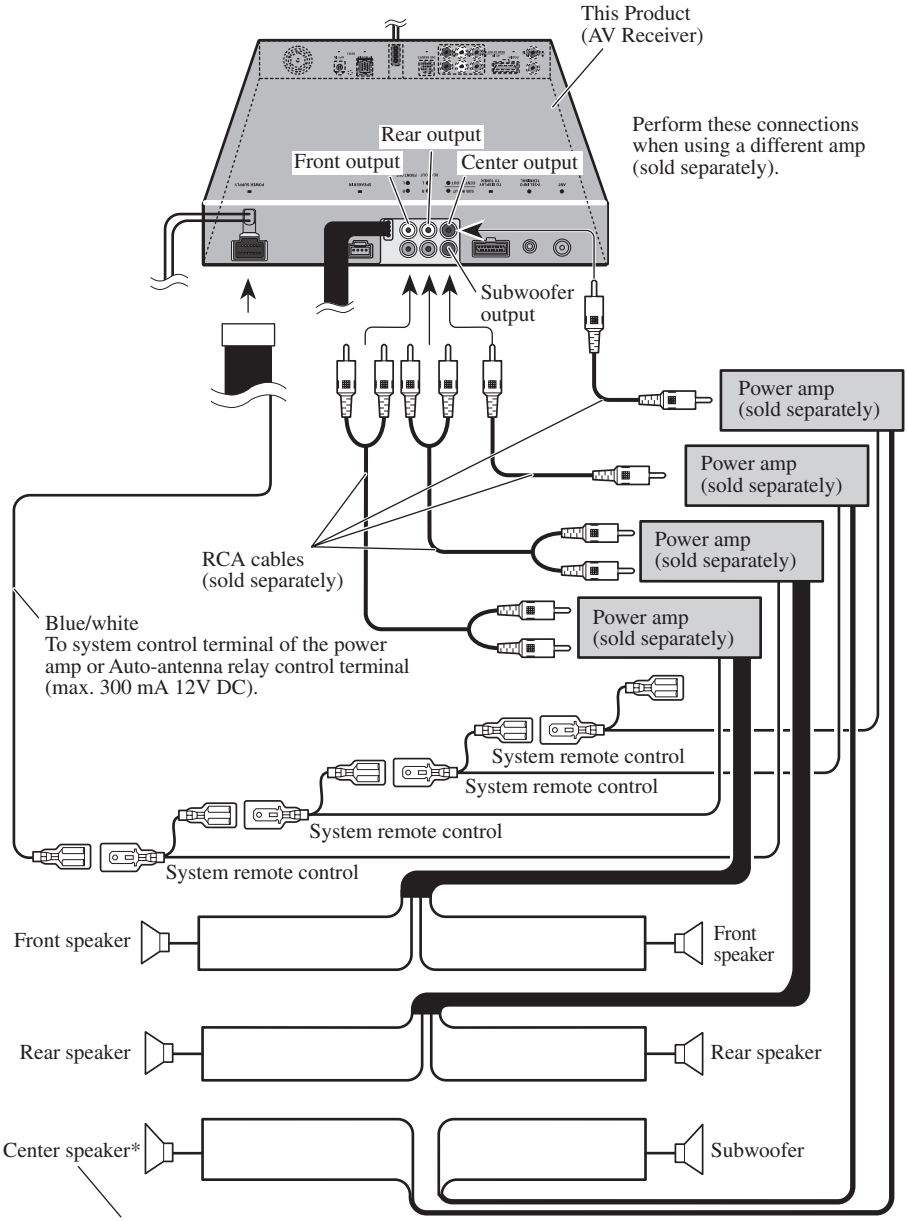
Connecting the Power Cord of DVD Player




Connection method
Clamp the parking brake switch power supply side lead.
Clamp firmly with needle-nosed pliers.
Note:
• The position of the parking brake switch depends on the vehicle model. For details, consult the vehicle Owner's Manual or dealer.
This Product (DVD Player)
Light green
Used to detect the ON/OFF status of the parking brake.
This lead must be connected to the power supply side of the parking brake switch.
Power supply side
Ground side
Parking brake switch

Connecting to a Sold Separately Power Amp

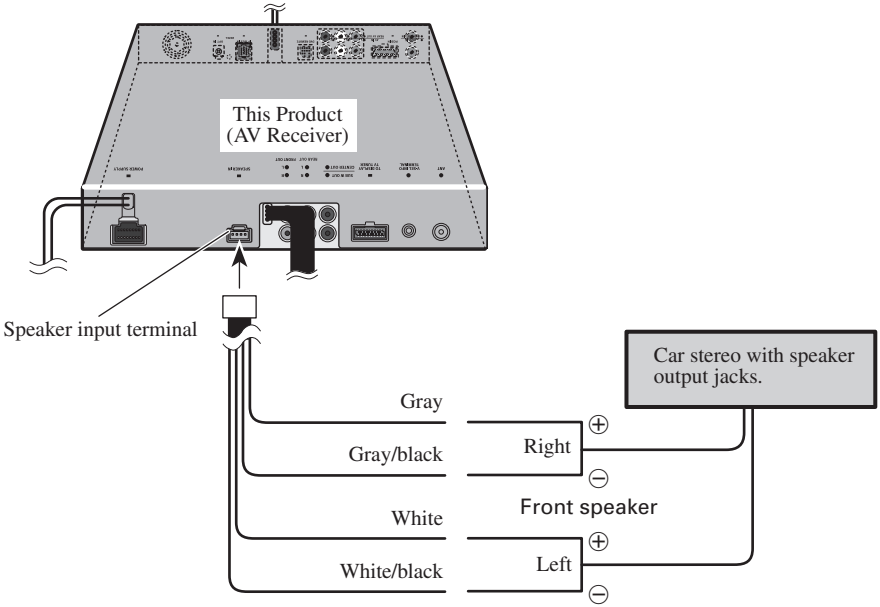
This product can be connected to a sold separately power amp using the RCA output jacks.



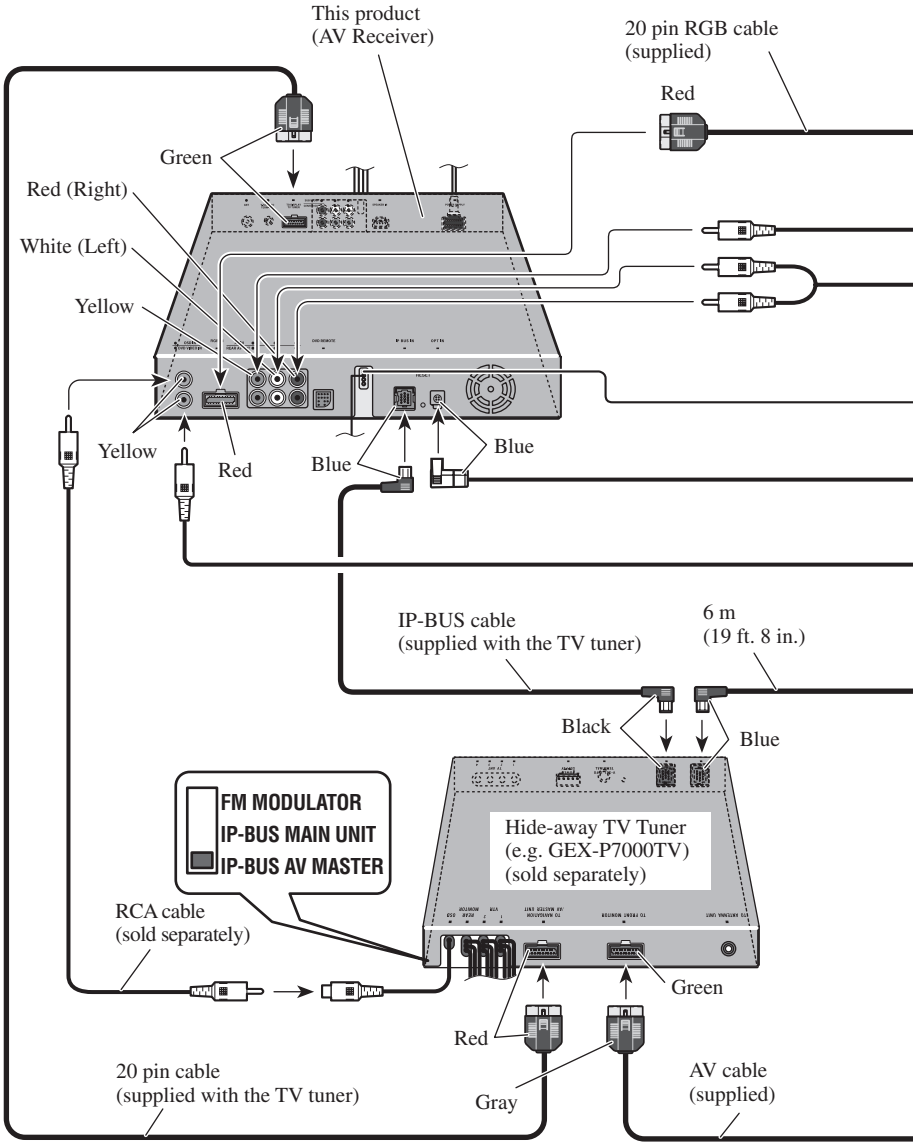
Maximum input for the center speaker supplied with this product is 45W. If input exceeds this, the speaker may catch fire, start smoking or become damaged, so be careful when using it.

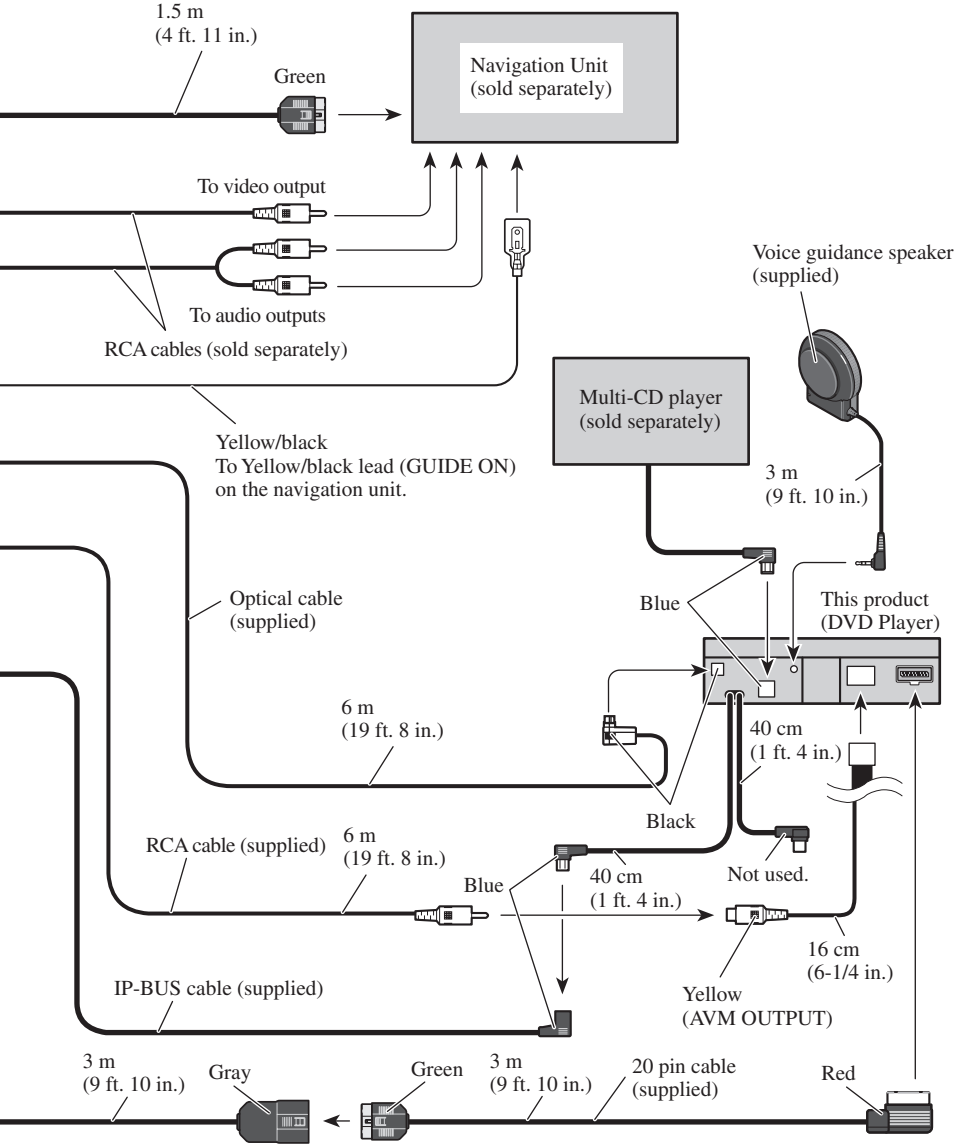
Speaker Input Jack Connection

This product also can be connected to a car stereo without RCA output jacks by using the speaker input jack.



Connecting the System



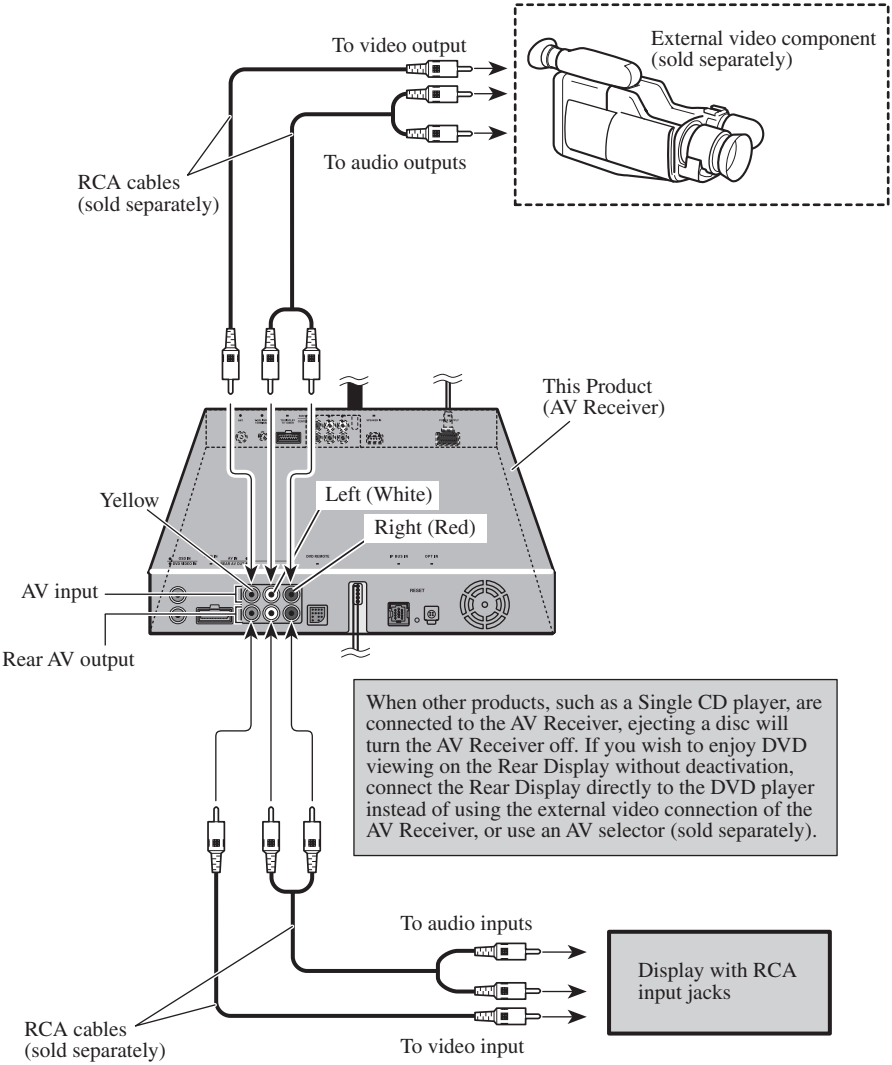

1.5 m
(4 ft. 11 in.)
Green
Navigation Unit
(sold separately)
To video output
To audio outputs
RCA cables (sold separately)
Yellow/black
To Yellow/black lead (GUIDE ON)
on the navigation unit.
Voice guidance speaker
(supplied)
Multi-CD player
(sold separately)
3 m
(9 ft. 10 in.)
Optical cable
(supplied)
Blue
This product
(DVD Player)
6 m
(19 ft. 8 in.)
40 cm
(1 ft. 4 in.)
Black
RCA cable (supplied)
6 m
(19 ft. 8 in.)
Blue
40 cm
(1 ft. 4 in.)
Not used.
16 cm
(6-1/4 in.)
IP-BUS cable (supplied)
Yellow
(AVM OUTPUT)
3 m
(9 ft. 10 in.)
Gray
Green
3 m
(9 ft. 10 in.)
20 pin cable
(supplied)
Red

VIDEO Input/Output Connection of AV Receiver

It is possible to use an external video component by connecting it to the AV input on the AV Receiver.
When connecting the Display with RCA input jacks to Rear AV output, you can also watch the external video component's picture.

⚠ WARNING

- NEVER install the display in a location that enables the Driver to watch the Video or DVD while Driving.

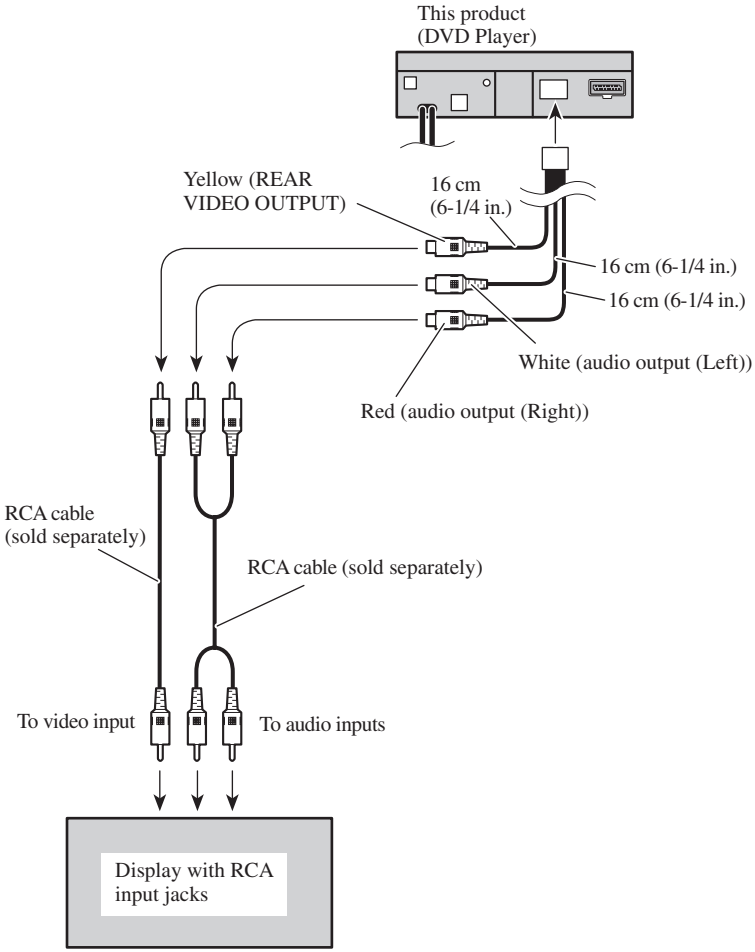


Rear Video Output of DVD Player

DVD Player's rear video output is for connection of a display to enable passengers in the rear seats to watch the DVD or Video CD.

⚠ WARNING

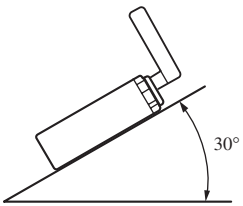
- NEVER install the display in a location that enables the Driver to watch the DVD or Video CD while Driving.



Installation

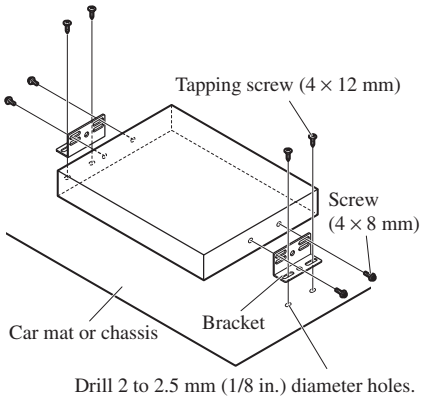
Note:

- Before finally installing the unit, connect the wiring temporarily, making sure it is all connected up properly, and the unit and the system work properly.
- Use only the parts included with the unit to ensure proper installation. The use of unauthorized parts can cause malfunctions.
- Consult with your nearest dealer if installation requires the drilling of holes or other modifications of the vehicle.
- Install the unit where it does not get in the driver's way and cannot injure the passenger if there is a sudden stop, like an emergency stop.
- When mounting the AV Receiver, make sure none of the leads are trapped between the AV Receiver and the surrounding metalwork or fittings.
- Do not mount the AV Receiver near the heater outlet, where it would be affected by heat, or near the doors, where rainwater might splash onto it.
- Before drilling any mounting holes always check behind where you want to drill the holes. Do not drill into the gas line, brake line, electrical wiring or other important parts.
- If the AV Receiver is installed in the passenger compartment, anchor it securely so it does not break free while the car is moving, and cause injury or an accident.
- If the AV Receiver is installed under a front seat, make sure it does not obstruct seat movement. Route all leads and cords carefully around the sliding mechanism so they do not get caught or pinched in the mechanism and cause a short circuit.
- Do not place the display in a position where it will impede the driver's visibility or affect the operation of your vehicle's air bags.
- The semiconductor laser will be damaged if it overheats, so don't install the unit anywhere hot — for instance, near a heater outlet.
- If installation angle exceeds 30° from horizontal, the unit might not give its optimum performance.



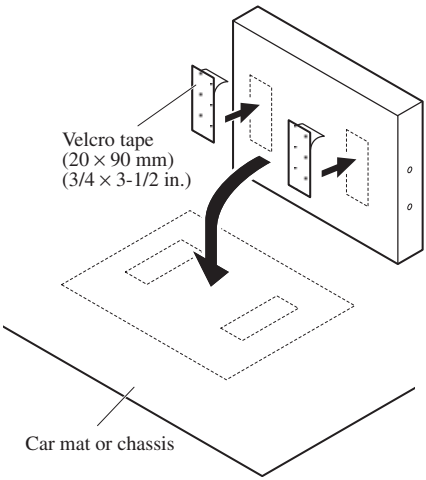
Installing the AV Receiver

■ Mounting with Brackets



■ Mounting with Velcro Tape

Thoroughly wipe off the surface before affixing the velcro tape.



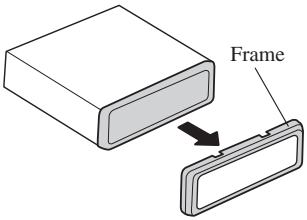
Installing the DVD Player (DIN Front/Rear-mount)

DVD Player can be properly installed either from “Front” (conventional DIN Front-mount) or “Rear” (DIN Rear-mount installation, utilizing threaded screw holes at the sides of unit chassis). For details, refer to the following illustrated installation methods.

Installing the DVD Player (DIN Front-mount)

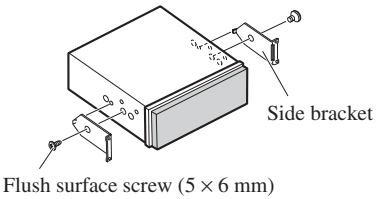
Installation with the rubber bush

1. Remove the frame.



Pull out to remove the frame.
(When reattaching the frame, point the side with a groove downwards and attach it.)

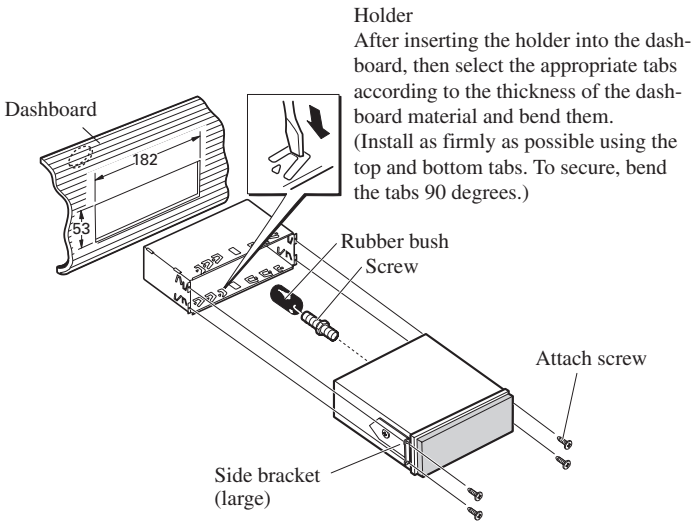
2. Install side brackets.



Continued overleaf.

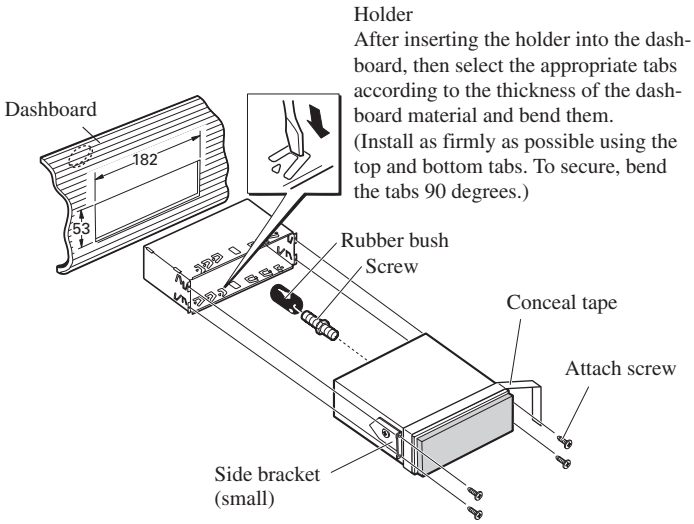
3. Fastening the unit.

As a rule, secure with side brackets (large).



■ When the installation space is not very deep

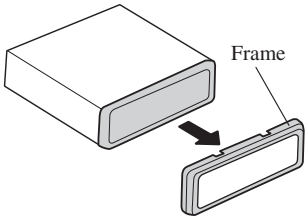
When installing in a shallow space, secure with side brackets (small). In this case, stick conceal tape on parts that protrude from the dashboard.



Installing the DVD Player (DIN Rear-mount)

Installation using the screw holes on the side of the unit

1. Remove the frame.

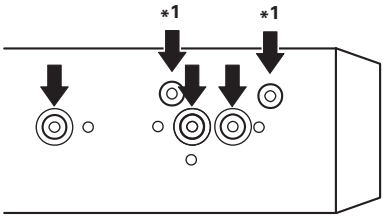


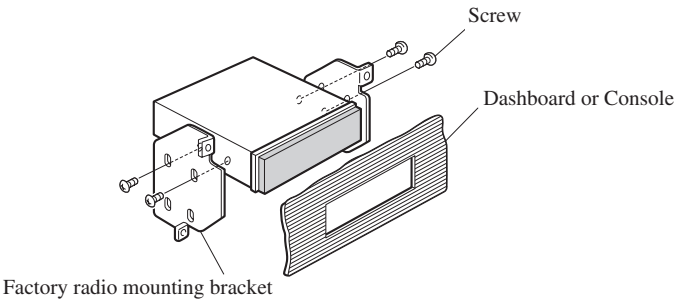
Pull out to remove the frame.
(When reattaching the frame, point the side with a groove downwards and attach it.)

2. Fastening the unit to the factory radio mounting bracket.

Select a position where the screw holes of the bracket and the screw holes of this product become aligned (are fitted), and tighten the screws at 2 places on each side. Use any of binding screws (4 × 3 mm), binding screws (5 × 6 mm) or flush surface screws (5 × 6 mm), depending on the shape of the screw holes in the bracket.

*1 Use binding screws (4 × 3 mm) only.



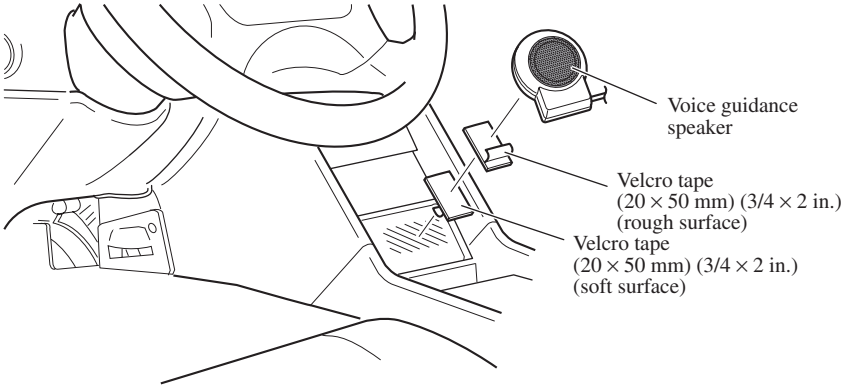


Installing the Voice Guidance Speaker

Precaution:

- Do not install on the dashboard where it may be subjected to direct sunlight. High temperatures may result in damage to the unit.

Stick the supplied velcro tapes to both the back of the voice guidance speaker and center console, and attach them.

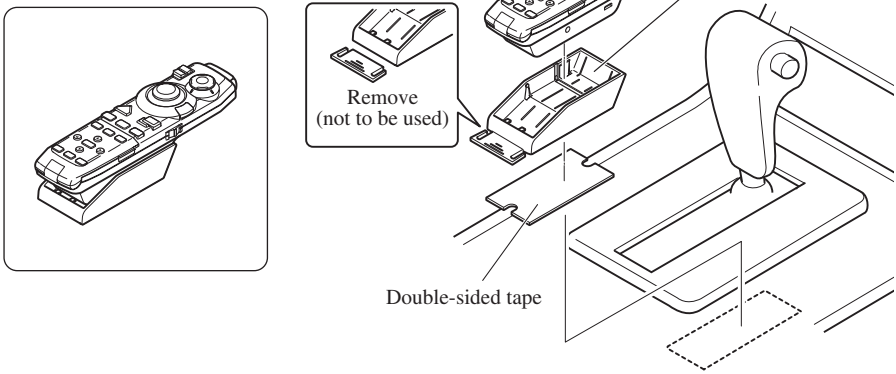


Installing the Remote Control Unit

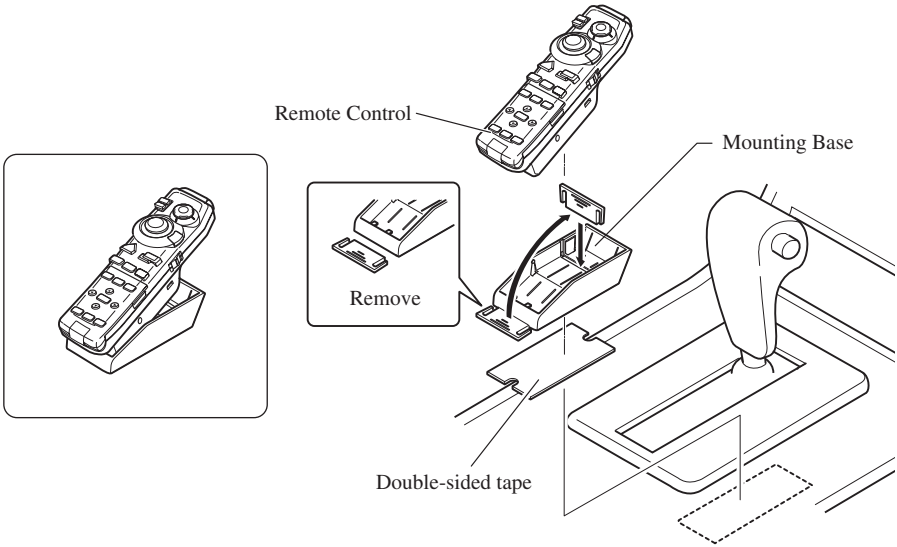
Precaution:

- Press the remote control unit onto the mounting base until it clicks into place.
- To avoid it being a hindrance to driving, always install the remote control unit to the passenger's side — not the driver's side.
- Install the mounting base so that the remote control unit is slanting upwards at an angle when fitted.
- Before using double-sided tape, clean off any dirt on the surface to which the double-sided tape is to be attached.

■ When attaching horizontally



■ When attaching with elevated position

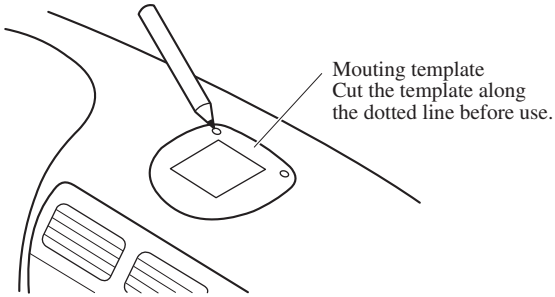


Installing the Center Speaker

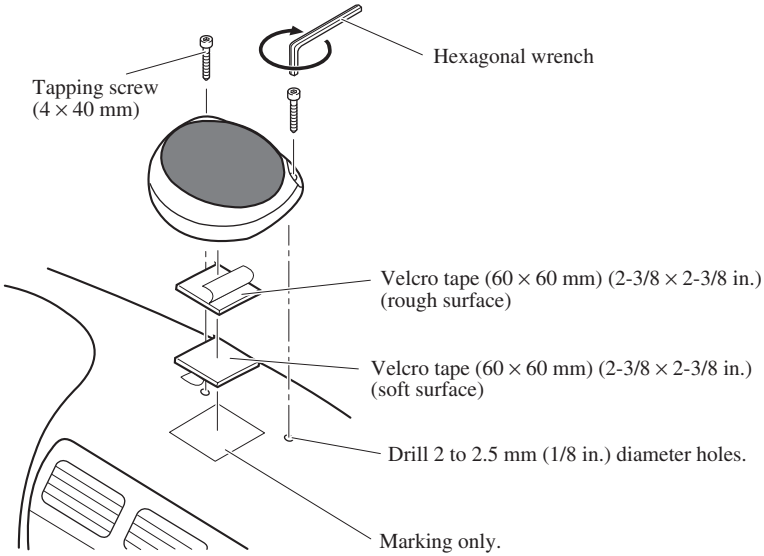
Precaution:

- Do not dismantle the speaker system by removing all the screws.
- If the speaker terminals are wired incorrectly, low pitched sounds will not be reproduced fully.
- Be sure to use a speaker load impedance of 4 ohm and keep peak maximum music power below 45 W.

1. Make some marks for the positions of the screws and velcro tape using the mounting template.



2. Secure the center speaker.



Specifications

■ AV Receiver

General

Power source ..... 14.4 V DC (10.8 – 15.1 V allowable)
Grounding system ..... Negative type
Max. current consumption
Backup current ..... 10 A
Accessory current ..... 4 A
Dimensions ..... 307 (W) × 51 (H) × 187 (D) mm
[12-1/8 (W) × 2 (H) × 7-3/8 (D) in.]
Weight ..... 2.5 kg (5.5 lbs)

Amplifier

Continuous power output is 22 W per channel min. into 4 ohms, both channels driven 50 to 15,000 Hz with no more than 5% THD.
Maximum power output ..... 45 W × 6
Load impedance ..... 4 Ω (4 – 8 Ω allowable)
Preout maximum output level/output impedance ..... 2.2 V/1 kΩ
Decoder
.... Linear PCM/Dolby Digital/Dolby Pro Logic/DTS
Equalizer (3-Band Parametric Equalizer)
(Low) ..... Frequency: 40/80/100/160 Hz
(Mid) ..... Frequency: 200/500/1k/2k Hz
(High) ..... Frequency: 3.15k/8k/10k/12.5k Hz
Level ..... ±12 dB
Subwoofer output
Crossover frequency ..... 63 Hz, 100 Hz, 200 Hz
Level ..... ±10 dB
Speaker setting
Time Alignment..... 0 – 200 inch (1 inch)
Level ..... ±10 dB
Equalizer ..... Band: 3 Band
Frequency: 100/125/160/200/250/315/
400/500/630/800/1k/1.25k/
1.6k/2k/2.5k/3.15k/4k/
5k/6.3k/8k Hz
Gain: ±12 dB
Crossover frequency: 63, 100, 200 Hz

FM tuner

Frequency range ..... 87.9 – 107.9 MHz
Usable sensitivity
..... 10 dBf (0.9 µV/75 Ω, mono, S/N: 30 dB)
50 dB quieting sensitivity .... 15 dBf (1.5 µV/75 Ω, mono)
Signal-to-noise ratio ..... 70 dB (IHF-A network)
Distortion ..... 0.3% (at 65 dBf, 1 kHz, stereo)
Frequency response ..... 30 – 15,000 Hz (±3 dB)
Stereo separation ..... 40 dB (at 65 dBf, 1 kHz)
Selectivity ..... 70 dB (2ACA)
Three-signal intermodulation
(desired signal level) ..... 30 dBf
(two undesired signal level: 100 dBf)

AM tuner

Frequency range ..... 530 – 1,710 kHz (10 kHz)
Usable sensitivity ..... 18 µV (S/N: 20 dB)
Selectivity ..... 50 dB (±10 kHz)

Video

Composit input level ..... 1 V/75 Ω
NTSC only
Composit output level ..... 1 V/75 Ω
NTSC Directly Through Input

■ DVD Player

General

Power source ..... 14.4 V DC (10.8 – 15.1 V allowable)
Grounding system ..... Negative type
Max. current consumption ..... 5 A
Dimensions
(DIN)
(chassis) ..... 180 (W) × 50 (H) × 160 (D) mm
[7-1/8 (W) × 2 (H) × 6-1/4 (D) in.]
(nose) ..... 188 (W) × 58 (H) × 31 (D) mm
[7-3/8 (W) × 2-1/4 (H) × 1-1/4 (D) in.]
(D)
(chassis) ..... 178 (W) × 50 (H) × 165 (D) mm
[7 (W) × 2 (H) × 6-1/2 (D) in.]
(nose) ..... 170 (W) × 46 (H) × 26 (D) mm
[6-3/4 (W) × 1-3/4 (H) × 1 (D) in.]
(display) ..... 169 (W) × 125 (H) × 16 (D) mm
[6-5/8 (W) × 4-7/8 (H) × 5/8 (D) in.]
Weight ..... 2.0 kg (4.4 lbs)

Display

Screen size/Aspect ratio ..... 7 inch wide/16:9
(effective display area: 154 × 87 mm)
[6-1/8 × 3-3/8 in.]
Pixels ..... 336,960 (1,440 × 234)
Type ..... TFT active matrix, transmissive type
Color system ..... NTSC Compatible
Operating temperature range ..... –20 to +60 °C
Storage temperature range ..... –40 to +85 °C
Angle Adjustment ..... 55 – 110°
Initial setting angle: 100°

Audio

(with DVD, at Sampling frequency 96 kHz)
Frequency response ..... 5 – 44,000 Hz
Signal-to-noise ratio
..... 97 dB (1 kHz) (IHF-A network)
(CD: 96 dB (1 kHz) (IHF-A network))
Dynamic range ..... 96 dB (1 kHz)
(CD: 95 dB (1 kHz))
Distortion ..... 0.008 % (1 kHz)
Output Level ..... 1.0 V (1 kHz, 0 dB)
Number of channels ..... 2 (stereo)

Player

System ..... DVD-Video, Video CD,
Compact disc audio system
Usable discs .... DVD-Video, Video CD, Compact disc
Signal format
..... Sampling frequency: 44.1/48/96 kHz
Number of quantization bits: 16/20/24; linear
Region Number 1

Video

Output level ..... 1.0 Vp-p/75 Ω (±0.2 V)

■ Center Speaker

Speaker specifications ..... ø 66 mm (2-5/8 in. Dia.)
High compliance, rolled edge
Heat-resistant voice coil
Strontium magnet: 80 g (2.8 oz)
Speaker system ..... Sealed type, full-range
Cabinet material ..... Heat-resistant ABS
Nominal impedance (with cord) ..... 4 Ω
Sensitivity ..... 83 dB/W (1 m)
Maximum music power ..... 45 W
Nominal power ..... 22 W
Frequency response ..... 200 – 30,000 Hz
Size ..... 116 (W) × 41 (H) × 113 (D) mm
[4-5/8 (W) × 1-5/8 (H) × 4-1/2 (D) in.]
Weight (including accessory parts) ..... 0.5 kg (1.1 lb)

Note:

- Specifications and the design are subject to possible modification without notice due to improvements.

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