

Operation Manual

7 inch Wide Fully Motorized LCD Color Display with 5-
Channel High-Power DVD/VCD/CD Receiver

AVH-P7500DVD

SUPER  **TUNER III** **D**

English

Thank you for buying this Pioneer product.

Please read through these operating instructions so you will know how to operate your model properly. *After you have finished reading the instructions, put them away in a safe place for future reference.*



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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

<u>Level</u>	<u>Example</u>
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.



Precautions

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. **

To ensure safe driving

WARNING

- To avoid the risk of accident and the potential violation of applicable laws, this unit is not for use with a video screen that is visible to the driver.
- 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.


This unit detects whether your car's parking brake is engaged or not, and prevents you from watching a DVD or TV on this display while driving. When you attempt to watch a DVD or TV, the warning **VIDEO VIEWING IS NOT AVAILABLE WHILE DRIVING** will appear on the screen.

To watch a DVD or TV on this display, park your car in a safe place and apply the parking brake.

When using a display connected to REAR MONITOR OUT

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


WARNING

NEVER install the display in a location that enables the driver to watch the DVD or TV while driving. 

To avoid battery exhaustion

Be sure to run the vehicle engine while using this unit. Using this unit without running the engine can result in battery drainage.

WARNING

Do not use with vehicles that do not feature an ACC position. 

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.



About this unit

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



Important (Serial number)

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

Playable discs

DVD, Video CD and CD discs that display the logos shown below can be played back on this player.

DVD audio



DVD video



Video CD



CD



Note

This player can only playback discs bearing the marks shown above.

DVD video disc region numbers

DVD video discs that have incompatible region numbers cannot be played on this player. The region number of the player can be found on the bottom of this unit.

The illustration below shows the regions and corresponding region numbers.



Before You Start

When combined with a Pioneer navigation unit

When you use this unit with the Pioneer DVD navigation unit, make sure that you use the map disc CNDV 21. This manual explains the operations with the combination use of them. If you do not use the map disc CNDV 21 but use an older version one with the navigation unit, this unit may have some failures or inconveniences as follows:

- **ENTERTAINMENT** button and **WIDE** button cannot function as **NAVI MENU** button and **NAVI** button.
- **NAVI** (navigation unit), such as DVD video from the combined Pioneer navigation unit with DVD video playback, cannot be selected as a source.
- In **NAVI MIXING**, the other settings besides **ALL** cannot be selected.
- Voice recognition control system of the combined Pioneer navigation unit cannot function properly. On the one hand the voice operation for navigation can be used, but on the other, the voice operation related to AV equipment cannot be used.
- Route guidance of the combined Pioneer navigation unit cannot be function properly when some other source image is displayed. On the one hand the guidance by voice can be informed, but on the other, the guidance by display (e.g. switching to an enlarged map of an intersection) cannot be informed.
- **NAVI BG PICT** (navigation unit wall paper) cannot be selected as a background display.

About this manual

This unit features a number of sophisticated functions ensuring superior reception and operation. All the functions have been designed

for the easiest possible use, but many are not self explanatory. This operation manual will help you benefit fully from this unit's 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 unit. It is especially important that you read and observe precautions on the next page and in other sections.

After-sales service for Pioneer products

Please contact the dealer or distributor from where you purchased this unit for 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 unit 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 0P2
(905) 479 4411
1 877 283 5901

For warranty information please see the Limited Warranty sheet included with this unit.

Product registration

Visit us at the following site:


<http://www.pioneerelectronics.com>

- 1 Register your product. We will keep the details of your purchase on file to help you refer to this information in the event of an insurance claim such as loss or theft.
- 2 Receive updates on the latest products and technologies.
- 3 Download owner's manuals, order product catalogues, research new products, and much more. 

Precautions

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 so you can hear sounds outside of the car.
- Protect this unit from moisture.
- If the battery is disconnected or discharged, the preset memory will be erased and must be reprogrammed. 

Features

Touch panel key operation

It is possible to operate this unit by using touch panel key.

DVD audio playback

It is possible to play back DVD audio.

DVD video playback

It is possible to play back DVD video, DVD R (video mode) and DVD RW (video mode).

Video CDs featuring PBC compatibility

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

CD playback

Music CD/CD R/CD RW playback is possible.

MP3 file playback

It is possible to play back MP3 files recorded on CD ROM/CD R/CD RW (ISO9660 Level 1/ Level 2 standard recordings).

- Supply of this product only conveys a license for private, non commercial use and does not convey a license nor imply any right to use this product in any commercial (i.e. revenue generating) real time broadcasting (terrestrial, satellite, cable and/or any other media), broadcasting/streaming via internet, intranets and/or other networks or in other electronic content distribution systems, such as pay audio or audio on demand applications. An independent license for such use is required. For details, please visit <http://www.mp3licensing.com>.

NTSC compatibility

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

Before You Start

Dolby Digital/DTS compatibility

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

- Manufactured under license from Dolby Laboratories. "Dolby", "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.



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.


Note

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. 

To protect the LCD screen


- Do not allow direct sunlight to fall on the display when this unit is not being used. Extended exposure to direct sunlight can result in LCD screen malfunction due to the resulting high temperatures.
- 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. 

For viewing LCD comfortably

Due to its construction, the view angle of the LCD screen is limited. The viewing angle (vertical and horizontal) can be increased, however, by using **BRIGHT** to adjust the black density of the video. When using for the first time, adjust the black density in accordance with the viewing angle (vertical and horizontal) to adjust for clear viewing. **DIMMER** can also be used to adjust the brightness of the LCD screen itself to suit your personal preference. 






Condition memory

This function memorizes audio language, subtitle language, angle number 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.


- 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. 



What the marks on DVDs indicate

The marks below may 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
	Indicates the number of audio systems.
	Indicates the number of subtitle languages.
	Indicates the number of viewing angles.
	Indicates the picture size (aspect ratio: screen width to height ratio) type.
	Indicates the number of the region where playback is possible.

When an operation is prohibited

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

- The icon  may not appear in certain discs. 

Resetting the microprocessor

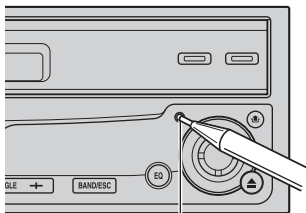
Pressing **RESET** lets you reset the microprocessor to its initial settings without changing the condition memory.

The microprocessor must be reset under the following conditions:

- Prior to using this unit for the first time after installation
- If the unit fails to operate properly
- When strange or incorrect messages appear on the display


1 Turn the ignition switch **OFF**.

2 Press **RESET** with a pen tip or other pointed instrument.



RESET button

Notes

- When using with a Pioneer navigation unit, if you press **RESET**, be sure **ACC OFF** is selected. If **ACC ON** is selected, correct operation may not be possible even if you press **RESET**.
- 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 **RESET**. 

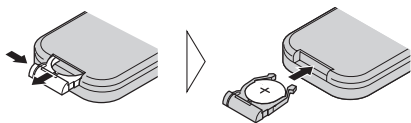
Before You Start

Use and care of the remote control

Installing the battery

Slide the tray out on the back of the remote control and insert the battery with the plus (+) and minus (-) poles pointing in the proper direction.

- When using for the first time, pull out the film protruding from the tray.



! WARNING

Keep the battery out of the reach of children. Should the battery be swallowed, immediately consult a doctor.

! CAUTION

- Use only one **CR2025 (3 V)** lithium battery.
- Remove the battery if the remote control is not used for a month or longer.
- Do not recharge, disassemble, heat or dispose of the battery in fire.
- Do not handle the battery with metallic tools.
- Do not store the battery with metallic materials.
- In the event of battery leakage, wipe the remote control completely clean and install a new battery.
- When disposing of used batteries, please comply with governmental regulations or environmental public institution's rules that apply in your country/area.

Using the remote control

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

- The remote control may not function properly in direct sunlight.

! Important

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

About the XM READY mark



The XM READY mark printed on the front panel indicates that the Pioneer XM tuner (sold separately) can be controlled by this unit. Please inquire to your dealer or nearest authorized Pioneer service station regarding the XM tuner that can be connected to this unit. For XM tuner operation, please refer to the XM tuner owner's manual.

! Notes

- XM Satellite Radio is developing a new band of radio in the U.S.A.



- The system will use direct satellite to receiver broadcasting technology to provide listeners in their cars and at home with crystal clear sound seamlessly from coast to coast. XM will create and package up to 100 channels of digital quality music, news, sports, talk and children's programming.
- The XM name and related logos are trademarks of XM Satellite Radio Inc.

Feature demo

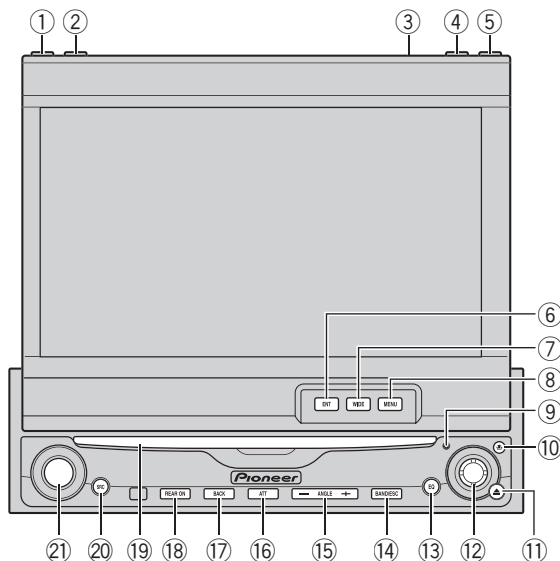


Important

The red lead (ACC) of this 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.

The feature demo automatically starts when power to this unit is turned off while the ignition switch is set to ACC or ON. Pressing and holding **ATT** during feature demo operation cancels the feature demo mode. Press and hold **ATT** again to start the feature demo mode. Remember that if the feature demo continues operating when the car engine is turned off, it may drain battery power. ▣

What's What



Head unit

- ① **DISPLAY button**
Press to select different displays.
- ② **PGM button**
Press to operate the preprogrammed functions for each source. (Refer to *Using the PGM button* on page 95.)
- ③ **Ambient light sensor**
Senses ambient light. This system automatically adjusts the brightness of the display to compensate for ambient light.
- ④ **FLIP DOWN/CLOCK button**
Press to turn the LCD panel horizontal temporarily when the LCD panel is upright. Press to display the clock for eight seconds when the LCD panel is closed.
- ⑤ **OPEN/CLOSE button**
Press to open or close the LCD panel.
- ⑥ **ENTERTAINMENT button**
Press to switch between the background displays.
- ⑦ **WIDE button**
Press to select a desired mode for enlarging a 4:3 picture to a 16:9 one.
- ⑧ **MENU button**
Press and hold to display the picture adjustment menu.
- ⑨ **RESET button**
Press to return to the factory settings (initial settings).
- ⑩ **DETACH button**
Press to remove the front panel from the head unit.
- ⑪ **EJECT button**
Press to eject a disc from this unit.

⑫ Joystick

Move to do manual seek tuning, fast forward, reverse and track search controls. Also used for controlling functions.

⑬ EQ button

Press to select various equalizer curves.

⑭ BAND/ESC button

Press to select among three FM and one AM bands and cancel the control mode of functions.

⑮ ANGLE (+/-) button

Press to change the LCD panel angle.

⑯ ATT button

Press to quickly lower the volume level, by about 90%. Press once more to return to the original volume level.

⑰ BACK button

Press to return to the previous display.

⑱ REAR ON button

Press to switch between the video sources (such as **DVD** or **AV**) on rear display.


⑲ Disc loading slot

Insert a disc to play.

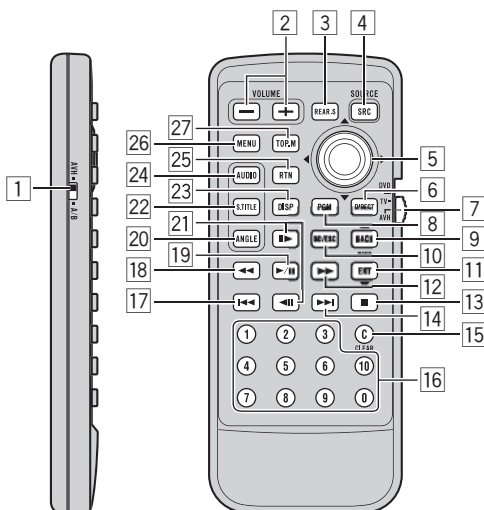
⑳ SOURCE button

This unit is turned on by selecting a source. Press to cycle through all of the available sources.

㉑ VOLUME

Rotate to increase or decrease the volume. 

What's What



Remote control

1 Remote control selection switch

Switch to change the setting of the remote control. For details, refer to *Setting remote control code type* on page 86.

2 VOLUME button

Press to increase or decrease the volume.

3 REAR.S button

Press to switch between the video sources (such as **DVD** or **AV**) on rear display.

4 SOURCE button

This unit is turned on by selecting a source. Press to cycle through all of the available sources.

5 Joystick

Move to do manual seek tuning, fast forward, reverse and track search controls. Also used for controlling functions.

6 DIRECT button

Press to do direct channel select when using an XM tuner.

7 Remote control operation mode switch

Switch the operation mode between **AVH**, **DVD** and **TV** modes. Normally, set to **AVH**.

- **AVH** – For common operation of this unit
- **DVD** – Only for DVD player operation
- **TV** – Only for TV tuner operation

For details, refer to *Switching the remote control operation mode switch* on the next page.

8 PGM button

Press to operate the preprogrammed functions for each source. (Refer to *Using the PGM button* on page 95.)

9 BACK button

Press to return to the previous display.

What's What

10 BAND/ESC button

Press to select among three FM and one AM bands and cancel the control mode of functions.

11 ENTERTAINMENT button

Press to switch between the background displays.

12 FORWARD (▶▶) button

Press to perform fast forward playback.

13 STOP (■) button

Press to stop playback.

14 NEXT (▶▶|) button

Press to go to the next track (chapter).

15 CLEAR button

Press to cancel the input number while **0–10** are used.

16 0–10 buttons

Press to directly select the desired track, preset tuning and disc. **1–6** buttons can operate the preset tuning for the tuner or disc number search for the multi CD player.

17 PREVIOUS (|◀◀) button

Press to return to the previous track (chapter).

18 REVERSE (◀◀) button

Press to perform fast reverse playback.

19 PLAY/PAUSE (▶/||) button

Press to switch sequentially between play back and pause play.

20 ANGLE button

Press to change the viewing angle during DVD playback.

21 STEP (||▶/◀||) button

Press to move ahead one frame at a time during DVD/VideoCD playback. Press and hold for one second to activate slow playback.

22 SUBTITLE (SUB.T) button

Press to change the subtitle language during DVD playback.

23 DISPLAY button

Press to select different displays.

24 AUDIO button

Press to change the audio language during DVD playback.

25 RETURN button

Press to display the PBC (playback control) menu during PBC playback.

26 MENU button

Press to display the DVD menu during DVD playback.

27 TOP MENU (TOP.M) button

Press to return to the top menu during DVD playback.

Switching the remote control operation mode switch

There are three remote control operation modes on the remote control.

AVH mode operation

When operating this unit by remote control, normally switch the mode to **AVH**.

- The joystick on the remote control can perform the same operations as it on the head unit. Furthermore, the joystick can perform the same operations as the touch panel keys ▲, ▼, ◀ and ▶.

What's What

- **1–6** can perform the same operations as the preset tuning keys **P 1—P 6** and the disc selection keys **01—06**.
 - If you want to select a disc located at 7 to 12 by using **1–6**, press and hold the corresponding numbers such as **1** for disc 7, until the disc number appears in the display.

DVD mode operation

If you switch the mode to **DVD**, the joystick and **0–10** operations are changed for DVD player.

● When you want to operate the following functions, switch the mode to DVD:

- When browsing still pictures by using the joystick. (Refer to *Browsing still pictures* on page 34.)
- When operating the DVD menu by using the joystick. (Refer to *Operating the DVD menu* on page 39.)
- When operating the PBC menu by using **0–10**. (Refer to *Watching a Video CD* on page 44.)
- When specifying group, title or track by using **0–10**. (Refer to *Specifying group* on page 35, *Specifying title* on page 42 and *Specifying track* on page 48.)

Note

When switching the mode to **DVD**, you cannot use these buttons: **BACK**, **ENTERTAINMENT**, **DISPLAY**, **PGM** and **DIRECT**.


TV mode operation

If you use **REAR MONITOR OUT**, you can watch the TV picture on the rear display independently. To operate the TV on the rear display independently, switch the mode to **TV**. In this case, the joystick operation is changed for TV.

● When you want to operate the following functions only on the rear display, switch the mode to TV:

- When performing manual or seek tuning by moving the joystick left or right. (Refer to *Watching the TV tuner* on page 57.)
- When recalling preset stations by moving the joystick up or down. (Refer to *Storing and recalling broadcast stations* on page 58.)
- When confirming current channel and other settings by pressing **DIRECT**. (Refer to *Confirming current channel and other settings* on page 59.)

Note

When switching the mode to **TV**, you cannot use except the joystick, **DIRECT**, **SOURCE** and **VOLUME**. 

Turning the unit on and selecting a source



① Source icon

Shows what the source has been selected.

You can select a source you want to listen to. If **DVD AUTO PLAY** is turned on, load a disc in this unit to switch to **DVD** (refer to *Switching the automatic disc playback* on page 89).

● When using the touch panel keys, touch the source icon and then touch the desired source name.

The source names are displayed and selectable ones are highlighted.

- **DVD** – Built in DVD player
 - **S-DVD** – DVD player/multi DVD player
 - **M-CD** – Multi CD player
 - **TUNER** – Tuner
 - **TV** – Television
 - **AV** – Video input
 - **EXT1** – External unit 1
 - **EXT2** – External unit 2
 - **AUX** – AUX
 - **XM** – XM tuner
 - **NAVI** – Navigation unit
 - **OFF** – Turn the unit off
- When the source icon is not displayed, you can display it by touching the screen.
 - Even if you touch the source icon while operating the menu, you cannot select a source.
 - To return to the playback display, touch **ESC**.

● When using the button, press **SOURCE** to select a source.

Press **SOURCE** repeatedly to switch between the following sources:

XM (XM tuner)—**TUNER** (tuner)—**TV** (television)—**AV** (video input)—**DVD** (built in DVD player)—**S-DVD** (DVD player/multi DVD player)—**M-CD** (multi CD player)—**EXT1** (external unit 1)—**EXT2** (external unit 2)—**AUX** (AUX)—**NAVI** (navigation unit)



Notes

- In the following cases, the sound source will not change:
 - When a unit corresponding to each source is not connected to this unit.
 - When no disc is set in this unit.
 - When no disc is set in the DVD player.
 - When no magazine is set in the multi CD player.
 - When no magazine is set in the multi DVD player.
 - When the AUX (auxiliary input) is set to off (refer to page 88).
 - When the AV (video input) is not set to **VIDEO** (refer to page 91).
- 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 unit. Two external units can be controlled by this unit. When two external units are connected, the allocation of them to external unit 1 or external unit 2 is automatically set by this unit.
- When this unit's blue lead is connected to the car's auto antenna relay control terminal, the car's antenna extends when this unit's selected source is the tuner. To retract the antenna, switch to a source other than tuner.

Basic Operations

Loading a disc

- **Insert a disc into the disc loading slot.**

Playback will automatically start.

- If **DVD AUTO PLAY** is turned off, touch the source icon and then touch **DVD** to select **DVD** (refer to the previous page).
- When a disc is loaded in this unit, touch the source icon and then touch **DVD** to select **DVD**.
- To eject a disc, press **EJECT**.



Notes

- The DVD player plays one, standard, 12 cm or 8 cm (single) disc at a time. Do not use an adapter when playing 8 cm discs.
- Do not insert anything other than a disc into the disc loading slot. Discs which can be played back are listed on *Playable discs* on page 8.
- If you cannot insert a disc completely or if after you insert a disc the disc does not play, check that the label side of the disc is up. Press **EJECT** to eject the disc, and check the disc for damage before inserting the disc again.
- If the DVD player does not operate properly, an error message such as **ERROR-02** may be displayed. Refer to *Error messages* on page 98.

Adjusting the volume

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

With the head unit, rotate **VOLUME** to increase or decrease the volume.

With the remote control, press **VOLUME** to increase or decrease the volume.

Turning the unit off

- **When using the touch panel keys, touch the source icon and then touch OFF.**

▪ When the source icon is not displayed, you can display it by touching the screen.

- **When using the button, press SOURCE and hold until the unit turns off.**

Using the rear display

You can watch the video sources (such as **DVD** or **AV**) on rear display independently of front display.

- If you watch a DVD/Video CD on the rear display only, switch the operation mode on the remote control to **DVD**. And you can operate the DVD/Video CD playback on the rear display independently by the remote control. (Refer to page 18.)
- If you watch a TV on the rear display only, switch the operation mode on the remote control to **TV**. And you can operate the TV tuner on the rear display independently by the remote control. (Refer to page 18.)



CAUTION

When you have turned the rear display output on by pressing **REAR ON**, you cannot turn it off even if you press **SOURCE** and hold. In this case, press **REAR ON** and hold to turn the rear display output off.

- **Press REAR ON to select the video source on the rear display.**

Press **REAR ON** repeatedly to switch between the following video sources:

- F. SOURCE** (same source as the front display)
- DVD** (built in DVD player)—**TV** (television)
- AV** (video input)

Rear display output is turned on and the illumination color of **REAR ON** changes into the different color than the other buttons.

- You can also perform this operation by pressing **REAR.S** on the remote control.
- To turn the rear display output off, press **REAR ON** and hold.
 - When selecting **F. SOURCE**, when the selected source is an audio source, nothing is displayed on rear display.
 - When you watch **DVD** (built in DVD player) on both the front and the rear display, audio is not output from **REAR MONITOR OUT**.
 - When selecting **FRONT SOURCE** in **REAR MODE**, audio is not output from **REAR MONITOR OUT**. (Refer to *Setting the video of rear display* on page 93.)
 - When selecting **FRONT SOURCE** in **REAR MODE**, you can select **F. SOURCE** only. (Refer to *Setting the video of rear display* on page 93.)



Notes

- In the following cases, the sound source will not change:
 - When no disc is set in this unit.
 - When the AV (video input) is not set to **VIDEO** (refer to page 91).
- When a Pioneer navigation unit is connected to this unit, the navigation video can be displayed on the rear display. (Refer to page 93.)

Displaying the navigation video

You can display navigation map and navigation menu on this display.

- Only when a Pioneer navigation unit is connected to this unit, you can operate these functions.

Displaying navigation map

- Press **WIDE** on the head unit to display navigation map.
 - When the map is scrolled, pressing this button returns to the display of the map of your surrounding.

Displaying navigation menu

- Press **ENTERTAINMENT** on the head unit to display navigation menu when the navigation map is displayed.

Switching to the navigation video

- Press **MENU** on the head unit to switch the display to navigation video.
 - To return to the video of each source, press **MENU** on the head unit again.

Basic Operations

Touch panel key basic operation

Activating the touch panel keys



①

① Touch panel keys

Touch to do various operations.

1 Touch the screen to activate the touch panel keys corresponding to each source.

The touch panel keys appear on the display.

- To go to the next group of touch panel keys, touch →.

2 Touch ESC to hide the touch panel keys.

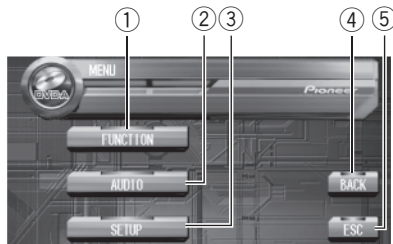
- You can also hide the touch panel keys by pressing **BAND/ESC**.



Note

If you do not use the touch panel keys for 30 seconds, they will be hidden automatically.

Operating the menu



① FUNCTION key

Touch to select functions for each source.

② AUDIO key

Touch to select various sound quality controls.

③ SETUP key

Touch to select various setup functions.

④ BACK key

Touch to return to the previous display.

⑤ ESC key

Touch to cancel the control mode of functions.

1 Touch A.MENU to display MENU.

MENU appears on the display.

- When **A.MENU** is not displayed, you can display it by touching the screen.

2 Touch the desired key to display the function names you want to operate.

- To go to the next group of function names, touch **NEXT**.
- To return to the previous group of function names, touch **PREV**.

3 Touch ESC to return to the display of each source.

 **Note**

If you do not operate the function within about 30 seconds, the display is automatically returned to the playback display.

Operating the menu by using the joystick

You can also perform most of the menu items by using the joystick.

- Switch the remote control operation mode to **AVH** to operate the menu by using the joystick on the remote control. (Refer to page 18.)


1 Click the joystick during display of each source to display MENU.

MENU appears on the display.

2 Move the joystick up or down and then click it to display the function names you want to operate.

- To go to the next group of function names, move the joystick to **NEXT** and click it.
- To return to the previous group of function names, move the joystick to **PREV** and click it.

3 Press BAND/ESC to return to the display of each source.

- You can return to the previous display by pressing **BACK**. 

Opening and closing the LCD panel

The LCD panel will be opened or closed automatically with the turning of the ignition switch on or off. You can turn off the automatic close/open function. (Refer to page 92.)

- The automatic close/open function will operate the display as follows.

- When the ignition switch is turned OFF while the LCD panel is opened, the LCD panel will close after six seconds.
- When the ignition switch is turned ON again (or turned to ACC), the LCD panel will be opened automatically.
- Removing or attaching the front panel will automatically close or open the LCD panel. (Refer to page 27.)

- When the ignition switch is turned OFF after the LCD panel has been closed, turning the ignition switch ON again (or turning it to ACC) will not open the LCD panel. In this case, press **OPEN/CLOSE** to open the LCD panel.
- When closing the LCD panel, check to make sure that it has closed completely. If the LCD panel has stopped halfway, leaving it like this could result in damage.

● Press OPEN/CLOSE to open the LCD panel.

- To close the LCD panel, press **OPEN/CLOSE** again.

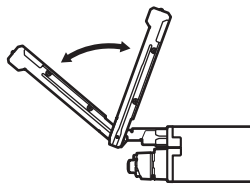
Adjusting the LCD panel angle **Important**

- If you can hear the LCD panel knocking against your vehicle's console or dashboard, press **ANGLE (-)** to move the LCD panel a little forward.
- When adjusting the LCD panel angle, be sure to press **ANGLE (+/-)**. Forcibly adjusting the LCD panel by hand may damage it.

● Press ANGLE (+/-) to adjust the LCD panel to an easily viewable angle.

The LCD panel angle continues changing as long as you press **ANGLE (+/-)** and hold.


Basic Operations



- The adjusted LCD panel angle will be memorized and automatically returned to the next time the LCD panel is opened.

Turning the LCD panel horizontal

When the LCD panel is upright and it hinders the operation of the air conditioner, the position of the panel can be turned horizontal temporarily.

- **Press FLIP DOWN/CLOCK to turn the LCD panel horizontal.**
 - To return to original position, press **FLIP DOWN/CLOCK** again.
 - The LCD panel returns to the original position automatically with beep sounds 10 seconds after operation. 

Changing the wide screen mode

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

- **Press WIDE to select the desired setting.**
Press **WIDE** repeatedly to switch between the following settings:
FULL (full)—**JUST (just)**—**CINEMA (cinema)**
—**ZOOM (zoom)**—**NORMAL (normal)**
 - When a Pioneer navigation unit is connected to this unit, press **WIDE** and hold to select the de-

sired setting. Press **WIDE** and hold repeatedly to switch between the settings.

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 is, giving you no sense of disparity since its proportions are the same as that of the normal picture.



Notes

- Different settings can be memorized for each video source.
- When video is viewed in a wide screen mode that does 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 purposes may constitute an infringement on the author's rights protected by the Copyright Law.
- Video will appear grainy when viewed in **CINEMA** or **ZOOM** mode.
- The navigation map and the back up camera picture is always **FULL**. 

Adjusting the picture adjustment

You can adjust **BRIGHT** (brightness), **CONTRAST** (contrast), **COLOR** (color) and **HUE** (hue) for each source and back up camera.

- The adjustments of **BRIGHT** and **CONTRAST** are stored separately for light ambient (daytime) and dark ambient (night time). A sun  or moon  is displayed to the left of **BRIGHT** and **CONTRAST**, respectively, as the ambient light sensor determines brightness or darkness.
- You cannot adjust **HUE** for PAL video.
- You cannot adjust **COLOR** and **HUE** for the audio source.

1 Press MENU on the head unit and hold to display PICTURE ADJUST.

Press **MENU** until **PICTURE ADJUST** appears in the display.

- You cannot use **MENU** on the remote control.

2 Touch any of the following touch panel keys to select the function to be adjusted.

The adjustment function names are displayed and adjustable ones are highlighted.

- **BRIGHT** – Adjust the black intensity
- **CONTRAST** – Adjust the contrast
- **COLOR** – Adjust the color saturation
- **HUE** – Adjust the tone of color (red is emphasized or green is emphasized)

- **DIMMER** – Adjust the brightness of display
- **B.Camera** – Switch to the picture adjustment display for the back up camera
- **SOURCE** – Return to the picture adjustment display for each source
 - You can adjust the picture adjustment for back up camera only when **BACK UP CAMERA** is turned on. (Refer to *Setting for back up camera* on page 91.)
 - **SOURCE** will appear in the display instead of **B.Camera** when you touch **B.Camera**.
 - With some back up camera, the picture adjustment may not be able to use.

3 Touch ◀ or ▶ to adjust the selected item.

Each time you touch ◀ or ▶ increases or decreases the level of selected item. **+24** – **–24** is displayed as the level is increased or decreased.

4 Touch ESC to hide the touch panel keys.

Adjusting the dimmer


The adjustment of **DIMMER** is stored separately for each ambient light; daytime, evening and nighttime. The brightness of LCD screen will be adjusted optimum level automatically in accordance with the ambient light based on the setting values.

1 Press MENU on the head unit and hold to display PICTURE ADJUST.

Press **MENU** until **PICTURE ADJUST** appears in the display.

2 Touch DIMMER.

The ambient light level used as the standard for adjusting **DIMMER** appears above the level bar.

- Orange sun  – Adjust the brightness for bright ambient light (daytime)

Basic Operations

- Red sun ☀ – Adjust the brightness for intermediate brightness (evening)
- Yellow moon 🌙 – Adjust the brightness for dark ambient light (nighttime)

3 Touch ◀ or ▶ to adjust the brightness.

Each time you touch ◀ or ▶ moves red towards the left or the right. The level indicates the brightness of the screen being adjusted. The farther red moves to the right, the brighter the screen.

4 Touch ESC to hide the touch panel keys.



Note

The icons indicating the current ambient brightness used for adjusting **BRIGHT** and **CONTRAST** may differ from **DIMMER** slightly. ▣

Protecting your unit from theft

The front panel can be detached from the head unit to discourage theft.

- If the front panel is not detached from the head unit within five seconds of turning off the ignition, a warning tone will sound.
- You can turn off the warning tone. See *Switching the warning tone* on page 88.



Important

- Never use force or grip the display and the buttons tightly when removing or attaching.
- Avoid subjecting the front panel to excessive shocks.
- Keep the front panel out of direct sunlight and high temperatures.
- Attach the front panel while driving, or else may result in scratching or damage.

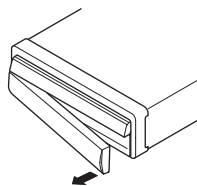
Removing the front panel

1 Press DETACH to remove the front panel.

Press **DETACH** and the right side of the front panel is removed from the head unit.

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

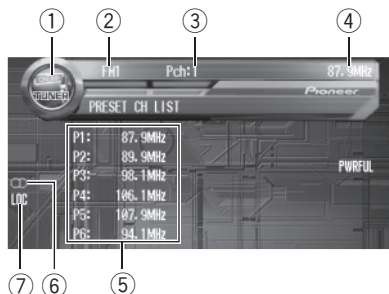
Take care not to grip it tightly or to drop it.



Attaching the front panel

- Replace the front panel by holding it upright to this unit and clipping it securely into the mounting hooks. ▣

Listening to the radio



These are the basic steps necessary to operate the radio. More advanced tuner operation is explained starting on the next page.

① Source icon

Shows what the source has been selected.

② Band indicator

Shows which band the radio is tuned to, AM or FM.

③ Preset number indicator

Shows what preset has been selected.

④ Frequency indicator

Shows to which frequency the tuner is tuned.

⑤ Preset list display

Shows the preset list.

⑥ Stereo (◻) indicator

Shows that the frequency selected is being broadcast in stereo.

⑦ LOC indicator

Shows when local seek tuning is on.

1 Touch the source icon and then touch TUNER to select the tuner.

- When the source icon is not displayed, you can display it by touching the screen.

2 Touch the screen to display the touch panel keys.

3 Touch BAND to select a band.

Touch **BAND** repeatedly until the desired band is displayed, **FM1**, **FM2**, **FM3** for FM or **AM**.

4 To perform manual tuning, touch ◀ or ▶ shortly.

The frequencies move up or down step by step.

- You can also perform manual tuning by moving the joystick left or right.

5 To perform seek tuning, keep touching ◀ or ▶ for about one second and release.

The tuner will scan the frequencies until a broadcast strong enough for good reception is found.

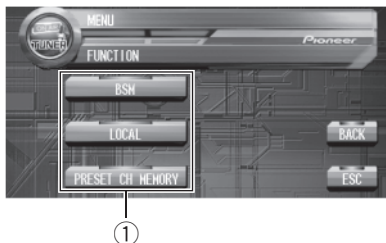
- You can cancel seek tuning by touching either ◀ or ▶ shortly.
- If you keep touching ◀ or ▶ you can skip broadcasting stations. Seek tuning starts as soon as you release the keys.
- You can also perform seek tuning by holding the joystick left or right.



Note

If you do not use the touch panel keys for 30 seconds, they will be hidden automatically. ◻

Introduction of advanced tuner operation



① Function display

Shows the function names.


● Touch **A.MENU** and then touch **FUNCTION** to display the function names.

The function names are displayed and operable ones are highlighted.

- When **A.MENU** is not displayed, you can display it by touching the screen.
- You can also display **MENU** by clicking the joystick.
- To return to the previous display, touch **BACK**.
- To return to the frequency display, touch **ESC**.



Note

If you do not operate the function within about 30 seconds, the display is automatically returned to the frequency display. 

Storing and recalling broadcast frequencies

If you touch any of the preset tuning keys **P 1—P 6** you can easily store up to six broadcast frequencies for later recall with the touch of a key.

● When you find a frequency that you want to store in memory keep touching a preset tuning key **P 1—P 6** until the preset number stops flashing.


The number you have touched will flash in the preset number indicator and then remain lit. The selected radio station frequency has been stored in memory.

The next time you touch the same preset tuning key **P 1—P 6** the radio station frequency is recalled from memory.

- When the touch panel keys are not displayed, you can display them by touching the screen.
- When **P 1—P 6** are not displayed, you can display them by touching **DISP**.



Notes

- Up to 18 FM stations, 6 for each of the three FM bands, and 6 AM stations can be stored in memory.
- You can also use **▲** and **▼** to recall radio station frequencies assigned to preset tuning keys **P 1—P 6**.
- You can also perform the same operations using **PRESET CH MEMORY**. To display **PRESET CH MEMORY**, touch **A.MENU** and then touch **FUNCTION**. 

Tuning in strong signals

Local seek tuning lets you tune in only those radio stations with sufficiently strong signals for good reception.

1 Touch **A.MENU** and **FUNCTION** and then touch **LOCAL**.

2 Touch **▲** to turn local seek tuning on.


- To turn local seek tuning off, touch **▼**.

3 Touch ◀ or ▶ to set the sensitivity.

There are four levels of sensitivity for FM and two levels for AM:

FM: **LEVEL 1—LEVEL 2—LEVEL 3—LEVEL 4**

AM: **LEVEL 1—LEVEL 2**

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

Storing the strongest broadcast frequencies

BSM (best stations memory) lets you automatically store the six strongest broadcast frequencies under preset tuning keys **P 1—P 6** and once stored there you can tune in to those frequencies with the touch of a key.

1 Touch **A.MENU** and **FUNCTION** and then touch **BSM**.


2 Touch ▲ to turn **BSM** on.

BSM begins to flash. While **BSM** is flashing the six strongest broadcast frequencies will be stored under preset tuning keys **P 1—P 6** in order of their signal strength. When finished, **BSM** stops flashing.

- To cancel the storage process, touch ▼.

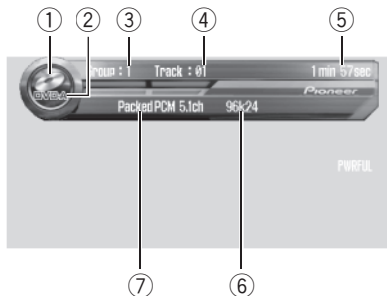


Note

Storing broadcast frequencies with BSM may replace broadcast frequencies you have saved using **P 1—P 6**. 

Playing DVD audio discs

Listening a DVD audio



These are the basic steps necessary to play a DVD audio with your DVD player. More advanced DVD audio operation is explained starting on page 33.

- ① **Source icon**
Shows what the source has been selected.
- ② **DVD-A indicator**
Shows when a DVD audio is playing.
- ③ **Group number indicator**
Shows the group currently playing.
- ④ **Track number indicator**
Shows the track currently playing.
- ⑤ **Play time indicator**
Shows the elapsed playing time of the current track.
- ⑥ **Sampling frequency and number of quantization bits indicator**
Shows the sampling frequency and number of quantization bits of the current track.
- ⑦ **Audio system indicator**
Shows what audio system has been selected.

1 Touch the source icon and then touch DVD to select the DVD player.

- When the source icon is not displayed, you can display it by touching the screen.
- If no disc is loaded in this unit, you cannot select **DVD** (DVD player). Insert a disc in this unit. (Refer to page 21.)
- With some discs, a menu may be displayed. (Refer to *Operating the DVD menu* on the next page.)

2 Touch the screen to display the touch panel keys.

3 To skip back or forward to another track, touch ◀◀ or ▶▶.

Touching ▶▶ skips to the start of the next track. Touching ◀◀ once skips to the start of the current track. Touching again will skip to the previous track. Track numbers are displayed for eight seconds.

- You can also skip back or forward to another track by moving the joystick left or right.

4 Touch → to display ◀◀ and ▶▶.

Touch → until ◀◀ and ▶▶ appear in the display.

5 To perform fast forward or reverse, keep touching ◀◀ or ▶▶.

If you keep touching ◀◀ or ▶▶ for five seconds, the icon ◀◀ or ▶▶ changes into reversal indication. When this happens, fast reverse/fast forward continues even if you release ◀◀ or ▶▶. To resume playback at a desired point, touch ▶/||.

- You can also perform fast reverse/fast forward by holding the joystick left or right.
- Fast forward/fast reverse may not be possible at certain locations on some discs. If this happens, normal playback automatically resumes.

**Notes**

- You can display the repeat range selected currently by touching **DISP**.
- If you do not use the touch panel keys for 30 seconds, they will be hidden automatically.

Operating the DVD menu

Some DVDs allow you to select the disc contents using a menu.

- You can display the menu by touching **MENU** or **TOP.M** while a disc is playing. Touching either of these keys again lets you start playback from the location selected from the menu. For details, refer to the instructions provided with the disc.

1 Touch **↔** to display touch panel keys to operate the DVD menu.

- When the touch panel keys are not displayed, you can display them by touching the screen.

2 Touch **▲, ▼, ◀** or **▶** to select the desired menu item.

3 Touch **ENTER**.

Playback starts from the selected menu item.

- If you switch the remote control operation mode to **DVD**, the joystick on the remote control can also operate the DVD menu. (Refer to page 18.)
- You cannot operate the DVD menu by the joystick on the head unit.
- The way to display the menu differs depending on the disc.

Skipping back or forward to another group

● To skip back or forward to another group, touch **▲** or **▼**.

Touching **▲** skips to the start of the next group. Touching **▼** skips to the start of the previous group.

Group numbers are displayed for eight seconds.

- You can also skip back or forward to another group by moving the joystick up or down.
- If you select bonus groups, you will have to enter a four digit password, which you can find on the disc's packaging. (Refer to *To play back bonus groups* on page 86.)

Stopping playback

● Touch **■**.

- When you stop DVD playback by touching **■**, that location on the disc is memorized enabling playback from that point when you play the disc again.
- To play back the disc again, touch **▶/II**.

Playing DVD audio discs

Introduction of advanced DVD audio operation



① Function display


Shows the function names.

- **Touch A.MENU and then touch FUNCTION to display the function names.**

The function names are displayed and operable ones are highlighted.

- When **A.MENU** is not displayed, you can display it by touching the screen.
- You can also display **MENU** by clicking the joystick.
- To go to the next group of function names, touch **NEXT**.
- To return to the previous group of function names, touch **PREV**.
- To return to the previous display, touch **BACK**.
- To return to the playback display, touch **ESC**.

Note

If you do not operate the function within about 30 seconds, the display is automatically returned to the playback display. 

Repeating play

There are three repeat play ranges for the DVD playback: **DISC** (disc repeat), **GROUP** (group repeat) and **TRACK** (track repeat).


1 Touch **A.MENU** and **FUNCTION** and then touch **REPEAT**.

2 Touch any of the following touch panel keys to select the repeat range.

- **DISC** – Play throughout the current disc
- **GROUP** – Repeat just the current group
- **TRACK** – Repeat just the current track



Note

If you perform track search or fast forward/reverse, the repeat play range changes to **DISC**. 

Playing tracks in a random order

Random play lets you play back tracks in a random order within the current group.

1 Touch **A.MENU** and **FUNCTION** and then touch **RANDOM**.

2 Touch **▲** to turn random play on.

Tracks will play in a random order within the current group.

- To turn random play off, touch **▼**. 

Scanning tracks

Scan play lets you hear the first 10 seconds of each track in the current group.

1 Touch **A.MENU** and **FUNCTION** and then touch **SCAN**.

2 Touch **▲** to turn scan play on.

The first 10 seconds of each track of the current group is played.

3 When you find the desired track touch ▼ to turn scan play off.



Note

After scanning is finished, normal playback of the tracks will begin again.

Pausing DVD audio playback

Pause lets you temporarily stop disc playback.

- **Touch ►/II during playback.**

The icon **II** is displayed for four seconds and playback is paused.

- To resume playback at the same point that you turned pause on, touch **►/II** again.



Notes

- You can also turn on or off pause function using **PAUSE**. To display **PAUSE**, touch **A.MENU** and then touch **FUNCTION**.
- Depending on the disc and the playback location on the disc, the icon may be displayed indicating that still playback is not possible.

Browsing still pictures

You can browse still pictures recorded on the disc while the audio is played back.

- You cannot operate Slideshow. (Refer to *Slideshow* on page 107.)

1 Touch **BROWSE** to browse still pictures during playback.

2 Touch **PAGE –** or **PAGE +** to switch still pictures.

Touching **PAGE +** goes to the next still picture. Touching **PAGE –** returns to the previous still picture.

- You can also go to the next still picture by touching **II►** during playback.
- To return to the initial still picture, touch **HOME**.
- If you switch the remote control operation mode to **DVD**, the joystick on the remote control can also browse still pictures. (Refer to page 18.)
- You cannot browse still pictures by the joystick on the head unit.



Note

Depending on the disc and the playback location on the disc, the icon may be displayed indicating that browsing still pictures is not possible.

Frame-by-frame playback

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

- This function can be operated only on the moving picture parts of DVD audio disc.

- **Touch **II►** during playback.**

Each time you touch **II►**, you move ahead one frame.

- To return to normal playback, touch **►/II**.



Notes

- Depending on the disc and the playback location on the disc, the icon may be displayed indicating that frame by frame playback is not possible.
- With some discs, images may be unclear during frame by frame playback.

Playing DVD audio discs

Slow motion playback

This lets you slow down playback speed.

- This function can be operated only on the moving picture parts of DVD audio disc.

1 Keep touching **II▶** until **▶II** is displayed during playback.

The icon **▶II** is displayed, forward slow motion playback begins.



- To return to normal playback, touch **▶/II**.

2 Press **◀II** or **II▶** to adjust playback speed during slow motion playback.

Each time you press **◀II** or **II▶** changes the speed in four steps in the following order:

1/16—1/8—1/4—1/2

Notes

- There is no sound during slow motion playback.
- Depending on the disc and the playback location on the disc, the icon  may be displayed indicating that slow motion playback is not possible.
- With some discs, images may be unclear during slow motion playback.
- Reverse slow motion playback is not possible. .

Searching for a desired track or group

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

- Track search is not possible when disc playback has been stopped.

1 Touch **SEARCH** and then touch **GROUP (group)** or **TRACK (track)**.


2 Touch **0—9** to input the desired number.

- To select 3, touch **3**.
- To select 10, touch **1** and **0** in order.
- To select 23, touch **2** and **3** in order.
- To cancel the input numbers, touch **C**.
- You can also input the desired number by using the joystick and **0-9**.

3 While the input number is displayed, touch **ENTER**.

This starts playback from the selected group or track.

Notes

- You can also perform the same operations using **SEARCH**. To display **SEARCH**, touch **A.MENU** and then touch **FUNCTION**.
- With discs featuring a menu, you can also touch **MENU** or **TOP.M** and then make selections from the displayed menu.
- With some discs, the icon  may be displayed, indicating that groups and tracks cannot be specified.


Specifying group

You can use the direct search function to search for a desired group by specifying a group.

- Only the remote control can operate this function. To perform this function, switch the remote control operation mode to **DVD**. (Refer to page 18.)

● Press **0—10** corresponding to a desired group number when the disc is stopped.

Group number is displayed for eight seconds and playback starts from the selected group.

- To select 3, press **3**.
- To select 10, press **10** and **0** in order.
- To select 23, press **10**, **10** and **3** in order. .

Changing audio language during playback (Multi-audio)



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.

● Touch **AUDIO** during playback.

Each time you touch **AUDIO** switches between audio.



Notes

- The number in the  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 **DVD SETUP MENU**. For details, refer to *Setting the audio language* on page 84.
- 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.
- Touching **AUDIO** during fast forward/fast reverse, pause or slow motion playback returns you to normal playback. .

Changing the subtitle language during playback (Multi-subtitle)



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

● Touch **SUB.T** during playback.

Each time you touch **SUB.T** switches between subtitle language.




Notes

- The number in the  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 **DVD SETUP MENU**. For details, refer to *Setting the subtitle language* on page 83.
- Touching **SUB.T** during fast forward/fast reverse, pause or slow motion playback returns you to normal playback. .

Changing the viewing angle during playback (Multi-angle)

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


- During playback of a scene shot from multiple angles on this unit, the angle icon  is displayed. Turn angle icon display on or off using **DVD SETUP MENU**. For details, refer to *Setting angle icon display* on page 85.

● Touch **ANGLE** during playback of a scene shot from multiple angles.


Each time you touch **ANGLE** switches between angle.




Notes

- The  mark on a DVD's package indicates it features multi angle scenes. The number in

Playing DVD audio discs

the  mark indicates the number of angles from which scenes were shot.

- Touching **ANGLE** during fast forward/fast reverse, pause or slow motion playback returns you to normal playback. 

Using the 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.

- The dynamic range control is effective only on Dolby Digital sounds.
- The dynamic range control may produce little effect on certain discs.

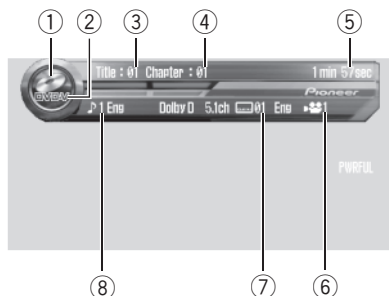
1 Touch A.MENU and FUNCTION and then touch NEXT.

2 Touch D. R. C.

3 Touch ▲ to turn the dynamic range control on.

- To turn dynamic range control off, touch ▼. 

Watching a DVD video



These are the basic steps necessary to play a DVD video with your DVD player. More advanced DVD video operation is explained starting on page 40.

- ① **Source icon**
Shows what the source has been selected.
- ② **DVD-V indicator**
Shows when a DVD video is playing.
- ③ **Title number indicator**
Shows the title currently playing.
- ④ **Chapter number indicator**
Shows the chapter currently playing.
- ⑤ **Play time indicator**
Shows the elapsed playing time of the current chapter.
- ⑥ **Viewing angle indicator**
Shows what viewing angle has been selected.
- ⑦ **Subtitle language indicator**
Shows what subtitle language has been selected.

⑧ Audio language indicator

Shows what audio language has been selected.

1 Touch the source icon and then touch DVD to select the DVD player.

- When the source icon is not displayed, you can display it by touching the screen.
- If no disc is loaded in this unit, you cannot select **DVD** (DVD player). Insert a disc in this unit. (Refer to page 21.)
- With some discs, a menu may be displayed. (Refer to *Operating the DVD menu* on the next page.)

2 Touch the screen to display the touch panel keys.

3 To skip back or forward to another chapter, touch ◀◀ or ▶▶.

Touching ▶▶ skips to the start of the next chapter. Touching ◀◀ once skips to the start of the current chapter. Touching again will skip to the previous chapter. Chapter numbers are displayed for eight seconds.

- You can also skip back or forward to another chapter by moving the joystick left or right.

4 Touch → to display ◀◀ and ▶▶.

Touch → until ◀◀ and ▶▶ appear in the display.

5 To perform fast forward or reverse, keep touching ◀◀ or ▶▶.

If you keep touching ◀◀ or ▶▶ for five seconds, the icon ◀◀ or ▶▶ changes into reversal indication. When this happens, fast reverse/fast forward continues even if you release ◀◀ or ▶▶. To resume playback at a desired point, touch ▶/II.


- You can also perform fast reverse/fast forward by holding the joystick left or right.

Playing DVD video discs

- Fast forward/fast reverse may not be possible at certain locations on some discs. If this happens, normal playback automatically resumes.



Notes

- You can display the repeat range selected currently by touching **DISP**.
- If you do not use the touch panel keys for 30 seconds, they will be hidden automatically. 

Operating the DVD menu

Some DVDs allow you to select the disc contents using a menu.

- You can display the menu by touching **MENU** or **TOP.M** while a disc is playing. Touching either of these keys again lets you start playback from the location selected from the menu. For details, refer to the instructions provided with the disc.


1 Touch to display touch panel keys to operate the DVD menu.

- When the touch panel keys are not displayed, you can display them by touching the screen.

2 Touch **▲**, **▼**, **◀** or **▶** to select the desired menu item.

3 Touch **ENTER**.

Playback starts from the selected menu item.


- If you switch the remote control operation mode to **DVD**, the joystick on the remote control can also operate the DVD menu. (Refer to page 18.)
- You cannot operate the DVD menu by the joystick on the head unit.
- The way to display the menu differs depending on the disc. 

Skipping back or forward to another title

- To skip back or forward to another title, touch **▲** or **▼**.

Touching **▲** skips to the start of the next title. Touching **▼** skips to the start of the previous title.

Title numbers are displayed for eight seconds.

- You can also skip back or forward to another title by moving the joystick up or down. 

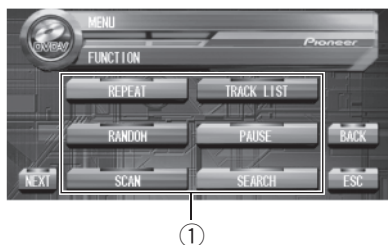
Stopping playback

- Touch **■**.

▪ When you stop DVD playback by touching **■**, that location on the disc is memorized enabling playback from that point when you play the disc again.

- To play back the disc again, touch **▶/II**. 

Introduction of advanced DVD video operation



① Function display


Shows the function names.

- **Touch A.MENU and then touch FUNCTION to display the function names.**

The function names are displayed and operable ones are highlighted.

- When **A.MENU** is not displayed, you can display it by touching the screen.
- You can also display **MENU** by clicking the joystick.
- To go to the next group of function names, touch **NEXT**.
- To return to the previous group of function names, touch **PREV**.
- To return to the previous display, touch **BACK**.
- To return to the playback display, touch **ESC**.

Note

If you do not operate the function within about 30 seconds, the display is automatically returned to the playback display. 

Repeating play


There are three repeat play ranges for the DVD playback: **DISC** (disc repeat), **TITLE** (title repeat) and **CHAPTER** (chapter repeat).

1 Touch **A.MENU** and **FUNCTION** and then touch **REPEAT**.

2 Touch any of the following touch panel keys to select the repeat range.

- **DISC** – Play throughout the current disc
- **TITLE** – Repeat just the current title
- **CHAPTER** – Repeat just the current chapter

Note

If you perform chapter search or fast forward/reverse, the repeat play range changes to **DISC**. 

Pausing DVD video playback



Pause lets you temporarily stop disc playback.

- **Touch ►/II during playback.**

The icon **II** is displayed for four seconds and playback is paused letting you view a still image.

- To resume playback at the same point that you turned pause on, touch **►/II** again.

Notes

- You can also turn on or off pause function using **PAUSE**. To display **PAUSE**, touch **A.MENU** and then touch **FUNCTION**.
- Depending on the disc and the playback location on the disc, the icon  may be displayed indicating that still playback is not possible. 

Frame-by-frame playback

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



Playing DVD video discs

● Touch **II▶** during playback.

Each time you touch **II▶**, you move ahead one frame.

- To return to normal playback, touch **▶/II**.

Notes

- Depending on the disc and the playback location on the disc, the icon  may be displayed indicating that frame by frame playback is not possible.
- With some discs, images may be unclear during frame by frame playback. .

Slow motion playback

This lets you slow down playback speed.

1 Keep touching **II▶** until **▶▶** is displayed during playback.



The icon **▶▶** is displayed, forward slow motion playback begins.

- To return to normal playback, touch **▶/II**.

2 Press **◀II** or **II▶** to adjust playback speed during slow motion playback.

Each time you press **◀II** or **II▶** changes the speed in four steps in the following order: 1/16—1/8—1/4—1/2

Notes

- There is no sound during slow motion playback.
- Depending on the disc and the playback location on the disc, the icon  may be displayed indicating that slow motion playback is not possible.
- With some discs, images may be unclear during slow motion playback.
- Reverse slow motion playback is not possible. .

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.

- Chapter search and time search are not possible when disc playback has been stopped.

1 Touch **SEARCH** and then touch **TITLE** (title), **CHAPTER** (chapter) or **TIME** (time).

2 Touch **0—9** to input the desired number.

For titles and chapters

- To select 3, touch **3**.
- To select 10, touch **1** and **0** in order.
- To select 23, touch **2** and **3** in order.

For time (time search)

- To select 21 minutes 43 seconds, touch **2**, **1**, **4** and **3** in order.
- To select 1 hour 11 minutes, convert the time into 71 minutes 00 seconds and touch **7**, **1**, **0** and **0** in order.
- To cancel the input numbers, touch **C**.
- You can also input the desired number by using the joystick and **0-9**.


3 While the input number is displayed, touch **ENTER**.

This starts playback from the selected scene.

Notes


- You can also perform the same operations using **SEARCH**. To display **SEARCH**, touch **A.MENU** and then touch **FUNCTION**.
- With discs featuring a menu, you can also touch **MENU** or **TOP.M** and then make selections from the displayed menu.

Playing DVD video discs

- With some discs, the icon  may be displayed, indicating that titles, chapters and time cannot be specified.

Specifying title

You can use the direct search function to search for a desired scene by specifying a title.


- Only the remote control can operate this function. To perform this function, switch the remote control operation mode to **DVD**. (Refer to page 18.)
- **Press 0–10 corresponding to a desired title number when the disc is stopped.**
Title number is displayed for eight seconds and playback starts from the selected title.
 - To select 3, press **3**.
 - To select 10, press **10** and **0** in order.
 - To select 23, press **10**, **10** and **3** in order. 


Changing audio language during playback (Multi-audio)

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.

- **Touch AUDIO during playback.**
Each time you touch **AUDIO** switches between audio.

Notes

- The number in the  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 **DVD SETUP MENU**. For details, refer to *Setting the audio language* on page 84.
- 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.
- Touching **AUDIO** during fast forward/fast reverse, pause or slow motion playback returns you to normal playback. 

Changing the subtitle language during playback (Multi-subtitle)

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

- **Touch SUB.T during playback.**
Each time you touch **SUB.T** switches between subtitle language.


Notes

- The number in the  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 **DVD SETUP MENU**. For details, refer to *Setting the subtitle language* on page 83.
- Touching **SUB.T** during fast forward/fast reverse, pause or slow motion playback returns you to normal playback. 

Playing DVD video discs

Changing the viewing angle during playback (Multi-angle)

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




- During playback of a scene shot from multiple angles on this unit, the angle icon  is displayed. Turn angle icon display on or off using **DVD SETUP MENU**. For details, refer to *Setting angle icon display* on page 85.

● Touch **ANGLE** during playback of a scene shot from multiple angles.

Each time you touch **ANGLE** switches between angle.



Notes

- 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.
- Touching **ANGLE** during fast forward/fast reverse, pause or slow motion playback returns you to normal playback. 

Using the 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.

- The dynamic range control is effective only on Dolby Digital sounds.
- The dynamic range control may produce little effect on certain discs.

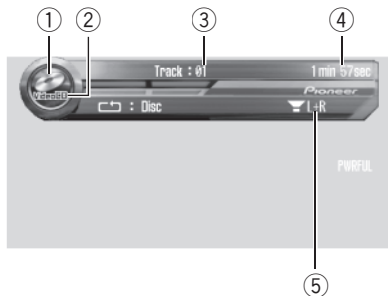
1 Touch **A.MENU** and **FUNCTION** and then touch **NEXT**.

2 Touch **D. R. C.**

3 Touch **▲** to turn the dynamic range control on.

- To turn dynamic range control off, touch **▼**. 

Watching a Video CD



These are the basic steps necessary to play a Video CD with your DVD player. More advanced Video CD operation is explained starting on page 46.

- ① **Source icon**
Shows what the source has been selected.
- ② **VideoCD indicator**
Shows when a Video CD is playing.
- ③ **Track number indicator**
Shows the track currently playing.
- ④ **Play time indicator**
Shows the elapsed playing time of the current track.
- ⑤ **Audio output indicator**
Shows the output channel selected currently.

1 Touch the source icon and then touch DVD to select the DVD player.

- When the source icon is not displayed, you can display it by touching the screen.
- If no disc is loaded in this unit, you cannot select **DVD** (DVD player). Insert a disc in this unit. (Refer to page 21.)

- With a Video CD featuring the PBC (playback control) function, a menu is displayed.

2 Switch the remote control operation mode to DVD and then press 0-10 to select the desired menu item.

Playback starts from the selected menu item.

- When the menu is two or more pages long, touch **◀◀** or **▶▶** to switch between displays.
- You can play a disc without using a menu (without PBC playback). (Refer to *Specifying track* on page 48.) To return to PBC playback, stop playback and touch **▶/II**.
- You can display the menu by pressing **RETURN** during PBC playback. For details, refer to the instructions provided with the disc.
- After operating the menu, we recommend that you switch remote control operation mode to **AVH**. (Refer to page 18.)

3 Touch the screen to display the touch panel keys.

4 To skip back or forward to another track, touch **◀◀** or **▶▶**.

Touching **▶▶** skips to the start of the next track. Touching **◀◀** once skips to the start of the current track. Touching again will skip to the previous track.

Track numbers are displayed for eight seconds.

- You can also skip back or forward to another track by moving the joystick left or right.
- During PBC playback, a menu may be displayed if you perform these operations.

5 Touch **→** to display **◀◀** and **▶▶**.

Touch **→** until **◀◀** and **▶▶** appear in the display.

6 To perform fast forward or reverse, keep touching **◀◀** or **▶▶**.

If you keep touching **◀◀** or **▶▶** for five seconds, the icon **◀◀** or **▶▶** changes into reversal indication. When this happens, fast


Playing Video CDs

reverse/fast forward continues even if you release ◀◀ or ▶▶. To resume playback at a desired point, touch ▶/II.

- You can also perform fast reverse/fast forward by holding the joystick left or right.
- Fast forward/fast reverse may not be possible at certain locations on some discs. If this happens, normal playback automatically resumes.



Note


If you do not use the touch panel keys for 30 seconds, they will be hidden automatically. 

Operating the menu

With Video CDs featuring PBC (playback control) function, you can operate a menu.

● Switch the remote control operation mode to DVD and then press 0–10 to select the desired menu item.

Playback starts from the selected menu item.

- When the menu is two or more pages long, touch I◀◀ or ▶▶I to switch between displays.
- You can play a disc without using a menu (without PBC playback). (Refer to *Specifying track* on page 48.) To return to PBC playback, stop playback and touch ▶/II.
- You can display the menu by pressing **RETURN** during PBC playback. For details, refer to the instructions provided with the disc.
- After operating the menu, we recommend that you switch remote control operation mode to **AVH**. (Refer to page 18.) 

Stopping playback

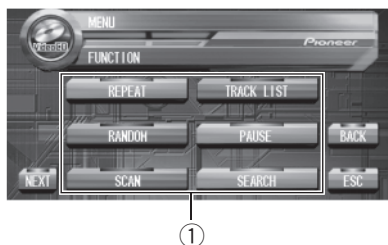
● Touch ■.

- When you stop Video CD playback (during PBC playback only) by touching ■, that location

on the disc is memorized enabling playback from that point when you play the disc again.

- To play back the disc again, touch ▶/II. 

Introduction of advanced Video CD operation



① Function display


Shows the function names.

● Touch **A.MENU** and then touch **FUNCTION** to display the function names.

The function names are displayed and operable ones are highlighted.

- When **A.MENU** is not displayed, you can display it by touching the screen.
- You can also display **MENU** by clicking the joystick.
- To go to the next group of function names, touch **NEXT**.
- To return to the previous group of function names, touch **PREV**.
- To return to the previous display, touch **BACK**.
- To return to the playback display, touch **ESC**.

Notes

- The dynamic range control is effective only on Dolby Digital sounds. (Refer to page 43.)
- If you do not operate the function within about 30 seconds, the display is automatically returned to the playback display. 

Repeating play

There are two repeat play ranges for the Video CD playback: **TRACK** (track repeat) and **DISC** (disc repeat).


- During PBC playback of Video CDs, this function cannot be operated.

1 Touch **A.MENU** and **FUNCTION** and then touch **REPEAT**.

2 Touch either of the following touch panel keys to select the repeat range.

- **DISC** – Repeat the current disc
- **TRACK** – Repeat just the current track

Note

If you perform track search or fast forward/reverse, the repeat play range changes to **DISC**. 

Pausing Video CD playback



Pause lets you temporarily stop disc playback.

● Touch **▶/||** during playback.

The icon **||** is displayed for four seconds and playback is paused letting you view a still image.

- To resume playback at the same point that you turned pause on, touch **▶/||** again.

Notes

- You can also turn on or off pause function using **PAUSE**. To display **PAUSE**, touch **A.MENU** and then touch **FUNCTION**.
- Depending on the disc and the playback location on the disc, the icon  may be displayed indicating that still playback is not possible. 

Playing Video CDs

Frame-by-frame playback

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



● Touch **II▶** during playback.

Each time you touch **II▶**, you move ahead one frame.

- To return to normal playback, touch **▶/II**.



Notes

- Depending on the disc and the playback location on the disc, the icon  may be displayed indicating that frame by frame playback is not possible.
- With some discs, images may be unclear during frame by frame playback. .

Slow motion playback

This lets you slow down playback speed.

1 Keep touching **II▶** until **▶▶** is displayed during playback.

The icon **▶▶** is displayed, forward slow motion playback begins.

- To return to normal playback, touch **▶/II**.


2 Press **◀II** or **II▶** to adjust playback speed during slow motion playback.


Each time you press **◀II** or **II▶** changes the speed in four steps in the following order:

1/16—1/8—1/4—1/2



Notes

- There is no sound during slow motion playback.
- Depending on the disc and the playback location on the disc, the icon  may be displayed indicating that slow motion playback is not possible.

- With some discs, images may be unclear during slow motion playback.
- Reverse slow motion playback is not possible. .

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.

- During PBC playback of Video CDs, this function cannot be operated.
- Time search is not possible when disc playback has been stopped.

1 Touch **SEARCH** and then touch **TRACK (track)** or **TIME (time)**.

2 Touch **0—9** to input the desired number.

For tracks

- To select 3, touch **3**.
- To select 10, touch **1** and **0** in order.
- To select 23, touch **2** and **3** in order.

For time (time search)

- To select 21 minutes 43 seconds, touch **2**, **1**, **4** and **3** in order.
- To select 1 hour 11 minutes, convert the time into 71 minutes 00 seconds and touch **7**, **1**, **0** and **0** in order.
- To cancel the input numbers, touch **C**.
- You can also input the desired number by using the joystick and **0-9**.

3 While the input number is displayed, touch **ENTER**.

This starts playback from the selected scene.

**Note**

You can also perform the same operations using **SEARCH**. To display **SEARCH**, touch **A.MENU** and then touch **FUNCTION**.

Specifying track

You can use the direct search function to play a disc without using a menu (without PBC playback).



- Only the remote control can operate this function. To perform this function, switch the remote control operation mode to **DVD**. (Refer to page 18.)
- During PBC playback of Video CDs, this function cannot be operated.

- **Press 0–10 corresponding to a desired track number when the disc is stopped.**

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

- To select 3, press **3**.
- To select 10, press **10** and **0** in order.
- To select 23, press **10**, **10** and **3** in order.

**Note**

With some discs, the icon  may be displayed and operation may not be possible. 

Selecting audio output


You can switch between stereo and monaural audio output.

- **Press AUDIO during playback.**

Press **AUDIO** repeatedly to switch between the following outputs:

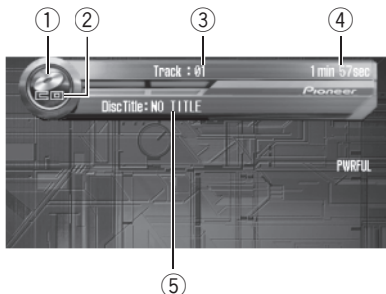
L+R (left and right channels)—**L** (left channel)
—**R** (right channel)

**Note**

You can also perform the same operations using **L/R SELECT**. To display **L/R SELECT**, touch **A.MENU** and **FUNCTION** and then touch **NEXT**. 

Playing CDs

Listening a CD



These are the basic steps necessary to play a CD with your DVD player. More advanced CD operation is explained starting on the next page.

- ① **Source icon**
Shows what the source has been selected.
- ② **CD indicator**
Shows when a CD is playing.
- ③ **Track number indicator**
Shows the track currently playing.
- ④ **Play time indicator**
Shows the elapsed playing time of the current track.
- ⑤ **Disc title indicator**
Shows the title of the currently playing disc.

1 Touch the source icon and then touch DVD to select the DVD player.

- When the source icon is not displayed, you can display it by touching the screen.
- If no disc is loaded in this unit, you cannot select **DVD** (DVD player). Insert a disc in this unit. (Refer to page 21.)

2 Touch the screen to display the touch panel keys.

3 To skip back or forward to another track, touch ◀◀ or ▶▶.

Touching ▶▶ skips to the start of the next track. Touching ◀◀ once skips to the start of the current track. Touching again will skip to the previous track.

Track numbers are displayed for eight seconds.

- You can also skip back or forward to another track by moving the joystick left or right.

4 Touch → to display ◀◀ and ▶▶.

Touch → until ◀◀ and ▶▶ appear in the display.

5 To perform fast forward or reverse, keep touching ◀◀ or ▶▶.

- You can also perform fast reverse/fast forward by holding the joystick left or right.



Notes

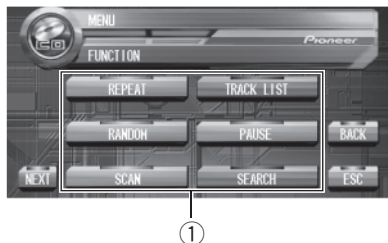
- When playing discs with MP3 files and audio data (CD DA) such as CD EXTRA and MIXED MODE CDs, both types can be played only by switching mode between MP3 and CD DA by touching **DA<>MP3** or pressing **BAND/ESC**.
- If you do not use the touch panel keys for 30 seconds, they will be hidden automatically. □

Stopping playback

● Touch ■.

- When you stop CD playback by touching ■, that location on the disc is memorized enabling playback from that point when you play the disc again.
- To play back the disc again, touch ▶/||. □

Introduction of advanced CD operation



① Function display


Shows the function names.

● Touch **A.MENU** and then touch **FUNCTION** to display the function names.

The function names are displayed and operable ones are highlighted.

- When **A.MENU** is not displayed, you can display it by touching the screen.
- You can also display **MENU** by clicking the joystick.
- To go to the next group of function names, touch **NEXT**.
- To return to the previous group of function names, touch **PREV**.
- To return to the previous display, touch **BACK**.
- To return to the playback display, touch **ESC**.

Notes

- The dynamic range control is effective only on Dolby Digital sounds. (Refer to page 43.)
- If you do not operate the function within about 30 seconds, the display is automatically returned to the playback display. 

Repeating play

Repeat play lets you hear the same track over again.


1 Touch **A.MENU** and **FUNCTION** and then touch **REPEAT**.

2 Touch either of the following touch panel keys to select the repeat range.

- **DISC** – Repeat the current disc
- **TRACK** – Repeat just the current track



Notes

- If you perform track search or fast forward/reverse, repeat play is automatically cancelled.
- When playing discs with MP3 files and audio data (CD DA), repeat play performs within the currently playing data type even if **DISC** is selected. 

Playing tracks in a random order

Random play lets you play back tracks on the CD in a random order.

1 Touch **A.MENU** and **FUNCTION** and then touch **RANDOM**.

2 Touch **▲** to turn random play on.

Tracks will play in a random order.

- To turn random play off, touch **▼**. 

Scanning tracks of a CD

Scan play lets you hear the first 10 seconds of each track on the CD.

1 Touch **A.MENU** and **FUNCTION** and then touch **SCAN**.

Playing CDs

2 Touch ▲ to turn scan play on.

The first 10 seconds of each track is played.

3 When you find the desired track touch ▼ to turn scan play off.



Note

After scanning of a CD is finished, normal playback of the tracks will begin again. □

Pausing CD playback

Pause lets you temporarily stop disc playback.

● Touch ►/|| during playback.

The icon || is displayed for four seconds and playback is paused.

- To resume playback at the same point that you turned pause on, touch ►/|| again.



Note

You can also turn on or off pause function using **PAUSE**. To display **PAUSE**, touch **A.MENU** and then touch **FUNCTION**. □

Entering disc titles

You can input CD titles and display the title.

The next time you insert a CD for which you have entered a title, the title of that CD will be displayed.

Disc title input lets you input CD titles up to 20 letters long and up to 48 disc titles into this unit.

- When playing a CD TEXT disc, you cannot switch to **TITLE EDIT**. The disc title will have already been recorded on a CD TEXT disc.
- If no title has been entered for the currently playing disc, **NO TITLE** is displayed.

1 Play a CD that you want to enter the title.

2 Touch A.MENU and FUNCTION and then touch NEXT.

3 Touch TITLE EDIT.

4 Touch ABC to select the desired character type.

Touch **ABC** repeatedly to switch between the following character type:

Alphabet (upper case), numbers and symbols
—Alphabet (lower case)

- You can select to input numbers and symbols by touching **012**.
- You can also switch character types by clicking the joystick.

5 Touch ▲ or ▼ to select a letter of the alphabet.

Each time you touch ▲ will display a letter of the alphabet in **A B C ... X Y Z**, numbers and symbols in **1 2 3 ... |}** order. Each time you touch ▼ will display a letter in the reverse order, such as **Z Y X ... C B A** order.



6 Touch ► to move the cursor to the next character position.

When the desired letter is displayed, touch ► to move the cursor to the next position and then select the next letter. Touch ◀ to move backwards in the display.

Playing CDs

7 Touch OK to store the entered title in memory.

- You can also store the entered title in memory by moving the cursor to right until it disappears.

8 Touch ESC to return to the playback display.



Notes

- Titles remain in memory, even after the disc has been removed from this unit, and are recalled when the disc is reinserted.
- Titles are stored in this unit and multi CD player separately.
- After data for 48 discs has been stored in memory, data for a new disc will overwrite the oldest one.

Using CD TEXT functions

Some discs have certain information encoded on the disc during manufacture. These discs may contain such information as the CD title, track title, artist's name and playback time and are called CD TEXT discs. Only these specially encoded CD TEXT discs support the functions listed below.

Displaying titles on CD TEXT discs

● Touch DISP.

Touch **DISP** repeatedly to switch between the following settings:

DiscTitle (disc title)—**DiscArtist** (disc artist name)—**TrackTitle** (track title)—**TrackArtist** (track artist name)

- If specific information has not been recorded on a CD TEXT disc, **NO XXXX** will be displayed (e.g., **NO ARTIST**).

Scrolling titles in the display

This unit can display the first 20 letters only of **DiscTitle**, **DiscArtist**, **TrackTitle** and **TrackArtist**. When the recorded information is longer than 20 letters, you can scroll the text to the left so that the rest of the title can be seen.

● Keep touching DISP until the title begins to scroll to the left.

The rest of the title will appear in the display.

Selecting tracks from the track title list

Track title list lets you see the list of track titles on a CD.TEXT disc and select one of them to playback.

1 Touch A.MENU and FUNCTION and then touch TRACK LIST.

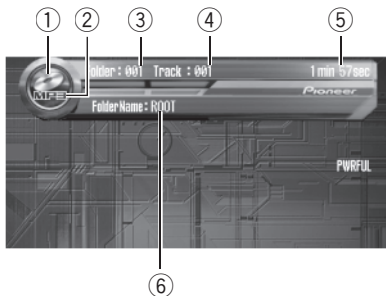
2 Touch PREV or NEXT to switch between the lists of titles.

3 Touch your favorite track title.

That selection will begin to play.

Playing MP3

Listening MP3



These are the basic steps necessary to play an MP3 with your DVD player. More advanced MP3 operation is explained starting on the next page.

- ① **Source icon**
Shows what the source has been selected.
- ② **MP3 indicator**
Shows when the MP3 file is playing.
- ③ **Folder number indicator**
Shows the folder number currently playing.
- ④ **Track number indicator**
Shows the track (file) currently playing.
- ⑤ **Play time indicator**
Shows the elapsed playing time of the current track (file).
- ⑥ **Folder name indicator**
Shows the folder name currently playing.

1 Touch the source icon and then touch DVD to select the DVD player.

- If no disc is loaded in this unit, you cannot select **DVD** (DVD player). Insert a disc in this unit. (Refer to page 21.)

2 Touch the screen to display the touch panel keys.

3 To skip back or forward to another track, touch ◀◀ or ▶▶.

Touching ▶▶ skips to the start of the next track. Touching ◀◀ once skips to the start of the current track. Touching again will skip to the previous track.

Track numbers are displayed for eight seconds.

- You can also skip back or forward to another track by moving the joystick left or right.

4 Touch → to display ▲, ▼, ◀◀ and ▶▶.

Touch → until ▲, ▼, ◀◀ and ▶▶ appear in the display.


5 To perform fast forward or reverse, keep touching ◀◀ or ▶▶.

- You can also perform fast reverse/fast forward by holding the joystick left or right.
- There is no sound on fast forward or reverse.
- This is fast forward and reverse operation only for the file being played. This operation is canceled when the previous or next file is reached.




6 Touch ▲ or ▼ to select a folder.

- You can also select a folder by moving the joystick up or down.
- To return to folder **001** (ROOT), press and hold **BAND/ESC**. However, if folder **001** (ROOT) contains no files, playback commences with folder **002**.
- You cannot select a folder that does not have an MP3 file recorded in it.

Notes

- When playing discs with MP3 files and audio data (CD DA) such as CD EXTRA and MIXED MODE CDs, both types can be played only by switching mode between MP3 and CD DA by touching **DA<>MP3** or pressing **BAND/ESC**.
- If you have switched between playback of MP3 files and audio data (CD DA), playback starts at the first track on the disc.
- This DVD player can play back an MP3 file recorded on CD ROM. (Refer to page 101 for files that can be played back.)
- There is sometimes a delay between starting up playback and the sound being issued. This is particularly the case when playing back multi session and many folders. When being read in, **FORMAT READ** is displayed.
- Playback is carried out in order of file number. Folders are skipped if they contain no files. (If folder **001** (ROOT) contains no files, playback commences with folder **002**.)
- When playing back files recorded as VBR (variable bit rate) files, the play time will not be correctly displayed if fast forward or reverse operations are used.
- If you do not use the touch panel keys for 30 seconds, they will be hidden automatically. 

Stopping playback

- Touch .
 - When you stop MP3 playback by touching , that location on the disc is memorized enabling playback from that point when you play the disc again.
 - To play back the disc again, touch **▶/||**. 

Introduction of advanced MP3 operation




① Function display

Shows the function names.

- Touch **A.MENU** and then touch **FUNCTION** to display the function names. The function names are displayed and operable ones are highlighted.
 - When **A.MENU** is not displayed, you can display it by touching the screen.
 - You can also display **MENU** by clicking the joystick.
 - To go to the next group of function names, touch **NEXT**.
 - To return to the previous group of function names, touch **PREV**.
 - To return to the previous display, touch **BACK**.
 - To return to the playback display, touch **ESC**.

Notes

- The dynamic range control is effective only on Dolby Digital sounds. (Refer to page 43.)
- If you do not operate the function within about 30 seconds, the display is automatically returned to the playback display. 

Playing MP3

Repeating play


For MP3 playback, there are three repeat play ranges: **FOLDER** (folder repeat), **TRACK** (one track repeat) and **DISC** (repeat all tracks).

1 Touch A.MENU and FUNCTION and then touch REPEAT.

2 Touch any of the following touch panel keys to select the repeat range.

- **DISC** – Repeat all tracks
- **FOLDER** – Repeat the current folder
- **TRACK** – Repeat just the current track

Notes

- If you select other folder during repeat play, the repeat play range changes to **DISC**.
- If you perform track search or fast forward/reverse during **TRACK**, the repeat play range changes to **FOLDER**.
- When **FOLDER** is selected, it is not possible to play back a subfolder of that folder.
- When playing discs with MP3 files and audio data (CD DA), repeat play performs within the currently playing data type even if **DISC** is selected. 

Playing tracks in a random order

Random play lets you play back tracks in a random order within the repeat range, **FOLDER** and **DISC**.

1 Select the repeat range.

Refer to *Repeating play* on this page.

2 Touch A.MENU and FUNCTION and then touch RANDOM.

3 Touch ▲ to turn random play on.

Tracks will play in a random order within the previously selected **FOLDER** or **DISC** ranges.

- To turn random play off, touch ▼. 

Scanning folders and tracks

While you are using **FOLDER**, the beginning of each track in the selected folder plays for about 10 seconds. When you are using **DISC**, the beginning of the first track of each folder is played for about 10 seconds.

1 Select the repeat range.

Refer to *Repeating play* on this page.


2 Touch A.MENU and FUNCTION and then touch SCAN.

3 Touch ▲ to turn scan play on.

The first 10 seconds of each track of the current folder (or the first track of each folder) is played.

4 When you find the desired track (or folder) touch ▼ to turn scan play off.

Note

After track or folder scanning is finished, normal playback of the tracks will begin again. 

Pausing MP3 playback

Pause lets you temporarily stop disc playback.

● **Touch ►/|| during playback.**

The icon **||** is displayed for four seconds and playback is paused.

- To resume playback at the same point that you turned pause on, touch ►/|| again.

**Note**

You can also turn on or off pause function using **PAUSE**. To display **PAUSE**, touch **A.MENU** and then touch **FUNCTION**.

Displaying text information on MP3 discs

Text information recorded on a MP3 discs can be displayed.

- **Touch DISP.**

Touch **DISP** repeatedly to switch between the following settings:

FolderName (folder name)—**FileName** (file name)—**TrackTitle** (track title)—**ArtistName** (artist name)—**AlbumTitle** (album title)—**Comment** (comment)—**BitRate** (bit rate)

- When playing back files recorded as VBR (variable bit rate) files, the bit rate value is not displayed even after switching to bit rate. (**VBR** will be displayed.)
- If specific information has not been recorded on a MP3 disc, **NO XXXX** will be displayed (e.g., **NO NAME**).

Scrolling text information in the display

This unit can display the first 20 letters only of **FolderName**, **FileName**, **TrackTitle**, **ArtistName**, **AlbumTitle** and **Comment**.

When the recorded information is longer than 20 letters, you can scroll the text to the left so that the rest of the text information can be seen.

- **Keep touching DISP until the text information begins to scroll to the left.**

The rest of the text information will appear in the display.

Selecting tracks from the file name list

File name list lets you see the list of file names (or folder names) on an MP3 disc and select one of them to playback.

- 1 **Touch A.MENU and FUNCTION and then touch FOLDER&TRACK LIST.**

- 2 **Touch PREV or NEXT to switch between the lists of names.**

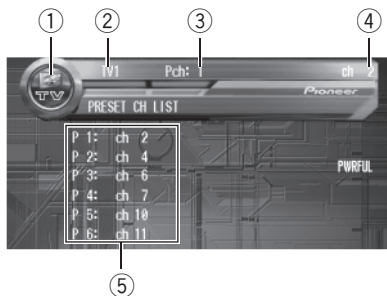
- 3 **Touch your favorite file name (or folder name).**

That selection will begin to play.

- When you have selected a folder, a list of the names of the files (or the folders) in it can be viewed. Repeat 2 and 3 to select the desired file name.
- To return to the previous list (the folder one level higher), touch **UP**.

TV tuner

Watching the TV tuner



These are the basic steps necessary to operate the TV. More advanced TV operation is explained starting on the next page.

① Source icon

Shows what the source has been selected.

② Band indicator

Shows which band the TV tuner is tuned to.

③ Preset number indicator

Shows what preset has been selected.

④ Channel indicator

Shows which channel the TV tuner is tuned.

⑤ Preset list display

Shows the preset list.

1 Touch the source icon and then touch TV to select the TV.

- When the source icon is not displayed, you can display it by touching the screen.

2 Touch the screen to display the touch panel keys.

3 Touch BAND to select a band.

Touch **BAND** repeatedly until the desired band is displayed, **TV1** or **TV2**

4 To perform manual tuning, touch ◀ or ▶ shortly.

The channels move up or down step by step.


- You can also perform manual tuning by moving the joystick left or right.

5 To perform seek tuning, keep touching ◀ or ▶ for about one second and release.

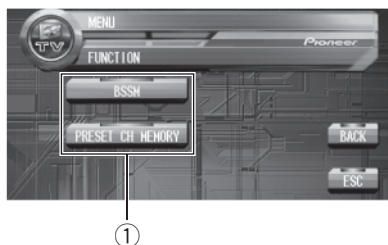
The tuner will scan the channels until a broadcast strong enough for good reception is found.

- You can cancel seek tuning by touching either ◀ or ▶ shortly.
- If you keep touching ◀ or ▶ you can skip broadcasting channels. Seek tuning starts as soon as you release the keys.
- You can also perform seek tuning by holding the joystick left or right.

Note

If you do not use the touch panel keys for 30 seconds, they will be hidden automatically. 

Introduction of advanced TV tuner operation



① Function display

Shows the function names.

● Touch **A.MENU** and then touch **FUNCTION** to display the function names.

The function names are displayed and operable ones are highlighted.

- When **A.MENU** is not displayed, you can display it by touching the screen.
- You can also display **MENU** by clicking the joystick.
- To return to the previous display, touch **BACK**.
- To return to the TV picture, touch **ESC**.



Note

If you do not operate the function within about 30 seconds, the display is automatically returned to the TV picture. □

Storing and recalling broadcast stations

If you touch any of the preset tuning keys **P 1—P12** you can easily store up to 12 broadcast stations for later recall with the touch of a key.

● When you find a station that you want to store in memory keep touching a preset tuning key **P 1—P12** until the preset number stops flashing.

The number you have touched will flash in the preset number indicator and then remain lit. The selected station has been stored in memory.

The next time you touch the same preset tuning key **P 1—P12** the station is recalled from memory.

- To switch between **P 1—P 6** and **P 7—P12**, touch **PREV** or **NEXT**.
- When the touch panel keys are not displayed, you can display them by touching the screen.
- When **P 1—P 6** and **P 7—P12** are not displayed, you can display them by touching **DISP**.



Notes

- Up to 24 stations, 12 for each of two TV bands can be stored in memory.
- You can also use **▲** and **▼** to recall stations assigned to preset tuning keys **P 1—P12**.
- You can also perform the same operations using **PRESET CH MEMORY**. To display **PRESET CH MEMORY**, touch **A.MENU** and then touch **FUNCTION**. □

Storing the strongest broadcast stations sequentially

BSSM (best stations sequential memory) lets you automatically store the 12 strongest broadcast stations in order from the lowest channel up under preset tuning keys **P 1—P12** and once stored there you can tune in to those stations with the touch of a key.

1 Touch **A.MENU** and **FUNCTION** and then touch **BSSM**.

TV tuner


2 Touch ▲ to turn BSSM on.

BSSM begins to flash. While **BSSM** is flashing the 12 strongest broadcast stations will be stored in order from the lowest channel up. When finished, **BSSM** stops flashing.

- To cancel the storage process, touch ▼.



Note

Storing broadcast stations with BSSM may replace broadcast stations you have saved using **P 1—P12**. 

Confirming current channel and other settings


When watching a TV on the rear display, you can display the reception information such as the channel, band and preset channel list.

- Only the remote control can operate this function. To perform this function, switch the remote control operation mode to **TV**. (Refer to page 18.)

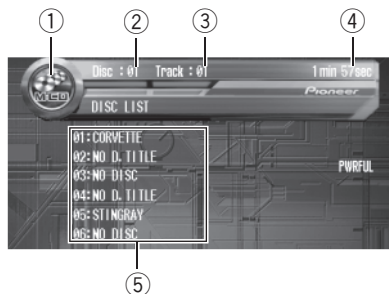
● Press **DIRECT** to display the reception information.

Each press of **DIRECT** displays reception informations in the following order:

Current channel information (channel and band)—Preset channel list—Reception informations disappear

- Reception informations are displayed for eight seconds. 

Listening a CD



You can use this unit to control a multi CD player, which is sold separately.

These are the basic steps necessary to play a CD with your multi CD player. More advanced CD operation is explained starting on the next page.

- ① **Source icon**
Shows what the source has been selected.
- ② **Disc number indicator**
Shows the disc currently playing.
- ③ **Track number indicator**
Shows the track currently playing.
- ④ **Play time indicator**
Shows the elapsed playing time of the current track.
- ⑤ **Disc list display**
Shows the disc title list.

1 Touch the source icon and then touch M-CD to select the multi-CD player.

- When the source icon is not displayed, you can display it by touching the screen.

2 Touch the screen to display the touch panel keys.

3 Touch any of 01—06 to select a disc you want to listen to.

If you want to select a disc located at 7 to 12, touch **PREV** or **NEXT** to display **07—12**.

- When **01—06** and **07—12** are not displayed, you can display them by touching **DISP**.
- You can also sequentially select a disc by using **▲/▼**.

4 To skip back or forward to another track, touch ◀ or ▶.

Touching **▶** skips to the start of the next track. Touching **◀** once skips to the start of the current track. Touching again will skip to the previous track.

- You can also skip back or forward to another track by moving the joystick left or right.

5 To perform fast forward or reverse, keep touching ◀ or ▶.

- You can also perform fast reverse/fast forward by holding the joystick left or right.



Notes

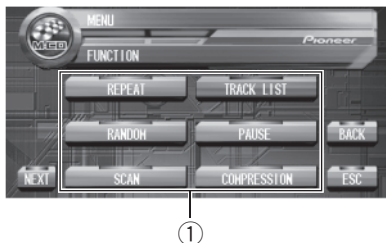
- When the multi CD player performs the preparatory operations, **READY** is displayed.
- If the multi CD player does not operate properly, an error message such as **ERROR-02** may be displayed. Refer to the multi CD player owner's manual.
- If there are no discs in the multi CD player magazine, **NO DISC** is displayed.
- If you do not use the touch panel keys for 30 seconds, they will be hidden automatically.

50-disc multi-CD player

Only those functions described in this manual are supported for 50 disc multi CD players.

Multi-CD Player

Introduction of advanced multi-CD player operation



① Function display


Shows the function names.

● Touch **A.MENU** and then touch **FUNCTION** to display the function names.

The function names are displayed and operable ones are highlighted.

- When **A.MENU** is not displayed, you can display it by touching the screen.
- You can also display **MENU** by clicking the joystick.
- To go to the next group of function names, touch **NEXT**.
- To return to the previous group of function names, touch **PREV**.
- To return to the previous display, touch **BACK**.
- To return to the playback display, touch **ESC**.

Note

If you do not operate the function within about 30 seconds, the display is automatically returned to the playback display. 

Repeating play

There are three repeat play ranges for the multi CD player: **MULTI-CD REPEAT** (multi CD player repeat), **TRACK REPEAT** (one track repeat) and **DISC REPEAT** (disc repeat).


1 Touch **A.MENU** and **FUNCTION** and then touch **REPEAT**.

2 Touch **◀▶** to select the repeat range.

Touch **◀▶** repeatedly until the desired repeat range appears in the display.

- **MULTI-CD REPEAT** – Repeat all discs in the multi CD player
- **TRACK REPEAT** – Repeat just the current track
- **DISC REPEAT** – Repeat the current disc
 - You can also select the repeat range by moving the joystick left or right.

Notes

- If you select other discs during repeat play, the repeat play range changes to **MULTI-CD REPEAT**.
- If you perform track search or fast forward/reverse during **TRACK REPEAT**, the repeat play range changes to **DISC REPEAT**. 

Playing tracks in a random order

Random play lets you play back tracks in a random order within the repeat range, **MULTI-CD REPEAT** and **DISC REPEAT**.


1 Select the repeat range.

Refer to *Repeating play* on this page.

2 Touch **A.MENU** and **FUNCTION** and then touch **RANDOM**.

3 Touch **▲** to turn random play on.

Tracks will play in a random order within the previously selected **MULTI-CD REPEAT** or **DISC REPEAT** ranges.

- To turn random play off, touch **▼**. 

Scanning CDs and tracks

While you are using **DISC REPEAT**, the beginning of each track on the selected disc plays for about 10 seconds. When you are using **MULTI-CD REPEAT**, the beginning of the first track of each disc is played for about 10 seconds.

1 Select the repeat range.

Refer to *Repeating play* on the previous page.

2 Touch A.MENU and FUNCTION and then touch SCAN.

3 Touch ▲ to turn scan play on.

The first 10 seconds of each track of the current disc (or the first track of each disc) is played.

4 When you find the desired track (or disc) touch ▼ to turn scan play off.



Note

After track or disc scanning is finished, normal playback of the tracks will begin again. □

Pausing CD playback

Pause lets you temporarily stop disc playback.

1 Touch A.MENU and FUNCTION and then touch PAUSE.

2 Touch ▲ to turn pause on.

Play of the current track pauses.

- To turn pause off, touch ▼. □

Using ITS playlists

ITS (instant track selection) lets you make a playlist of favorite tracks from those in the multi CD player magazine. After you have added your favorite tracks to the playlist you can turn on ITS play and play just those selections.

Creating a playlist with ITS programming

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.)

1 Play a CD that you want to program.

Touch ▲ or ▼ to select a CD.

2 Touch A.MENU and FUNCTION and then touch NEXT.

3 Touch ITS MEMORY.

4 Touch ◀ or ▶ to select a desired track.

5 Touch ▲ to store the currently playing track in the playlist.

ITS MEMORY is displayed briefly and the currently playing selection is added to your playlist. The display then shows track number again.

6 Touch ESC to return to the playback display.



Note

After data for 100 discs has been stored in memory, data for a new disc will overwrite the oldest one.

Multi-CD Player

Playback from your ITS playlist

ITS play lets you listen to the tracks that you have entered into your ITS playlist. When you turn on ITS play, tracks from your ITS playlist in the multi CD player will begin to play.

1 Select the repeat range.

Refer to *Repeating play* on page 61.

2 Touch A.MENU and FUNCTION and then touch NEXT.

3 Touch ITS PLAY.

4 Touch ▲ to turn ITS play on.

Playback begins of those tracks from your playlist within the previously selected **MULTI-CD REPEAT** or **DISC REPEAT** ranges.

- If no tracks in the current range are programmed for ITS play then **ITS EMPTY** is displayed.
- To turn ITS play off, touch ▼.

Erasing a track from your ITS playlist

When you want to delete a track from your ITS playlist, you can if ITS play is on. If ITS play is already on, skip to step 2.

1 Play a CD you want to delete a track from your ITS playlist, and turn ITS play on.

Refer to *Playback from your ITS playlist* on this page.

2 Touch A.MENU and FUNCTION and then touch NEXT.

3 Touch ITS MEMORY.

4 Touch ◀ or ▶ to select a desired track.

5 Touch ▼ to erase a track from your ITS playlist.

The currently playing selection is erased from your ITS playlist and playback of the next track from your ITS playlist begins.

- If there are no tracks from your playlist in the current range, **ITS EMPTY** is displayed and normal play resumes.

6 Touch ESC to return to the playback display.

Erasing a CD from your ITS playlist

When you want to delete all tracks of a CD from your ITS playlist, you can if ITS play is off.

1 Play a CD that you want to delete.

Touch ▲ or ▼ to select a CD.

2 Touch A.MENU and FUNCTION and then touch NEXT.

3 Touch ITS MEMORY.

4 Touch ▼ to erase all tracks on the currently playing CD from your ITS playlist.

All tracks on the currently playing CD are erased from your playlist and **ITS CLEAR** is displayed.

5 Touch ESC to return to the playback display. □

Using disc title functions

You can input CD titles and display the title. Then you can easily search for and select a desired disc for play.

Entering disc titles

Disc title input lets you input CD titles up to 20 letters long and up to 100 disc titles (with ITS playlist) into the multi CD player.

- With multi CD players sold before the CDX P1250 and CDX P650, up to 10 letters long can be input into multi CD player.
- When playing a CD TEXT disc on a CD TEXT compatible multi CD player, you cannot switch to **TITLE EDIT**. The disc title will have already been recorded on a CD TEXT disc.

1 Play a CD that you want to enter the title.

Touch ▲ or ▼ to select a CD.

2 Touch A.MENU and FUNCTION and then touch NEXT.

3 Touch TITLE EDIT.

4 Touch ABC to select the desired character type.

Touch **ABC** repeatedly to switch between the following character type:

Alphabet (upper case), numbers and symbols
—Alphabet (lower case)

- You can select to input numbers and symbols by touching **012**.
- You can also switch character types by clicking the joystick.

5 Touch ▲ or ▼ to select a letter of the alphabet.

Each time you touch ▲ will display a letter of the alphabet in **A B C ... X Y Z**, numbers and symbols in **1 2 3 ... | }** order. Each time you touch ▼ will display a letter in the reverse order, such as **Z Y X ... C B A** order.



6 Touch ► to move the cursor to the next character position.

When the desired letter is displayed, touch ► to move the cursor to the next position and then select the next letter. Touch ◀ to move backwards in the display.

7 Touch OK to store the entered title in memory.

- You can also store the entered title in memory by moving the cursor to right until it disappears.

8 Touch ESC to return to the playback display.



Notes

- Titles remain in memory, even after the disc has been removed from the magazine, and are recalled when the disc is reinserted.
- Titles are stored in this unit and multi CD player separately.
- After data for 100 discs has been stored in memory, data for a new disc will overwrite the oldest one.

Displaying disc titles

You can display the title of any disc that has had a disc title entered.

● Touch DISP.

Touch **DISP** repeatedly to switch between the following settings:

DISC LIST (disc list)—**DiscTitle** (disc title)

When you select **DiscTitle**, the title of the currently playing disc is shown in the display.

- If no title has been entered for the currently playing disc, **NO TITLE** is displayed. []

Multi-CD Player

Using CD TEXT functions

You can use these functions only with a CD TEXT compatible multi CD player.

Some discs have certain information encoded on the disc during manufacture. These discs may contain such information as the CD title, track title, artist's name and playback time and are called CD TEXT discs. Only these specially encoded CD TEXT discs support the functions listed below.

Displaying titles on CD TEXT discs

● Touch DISP.

Touch **DISP** repeatedly to switch between the following settings:

DISC LIST (disc list)—**DiscTitle** (disc title)
—**DiscArtist** (disc artist name)—**TrackTitle**
(track title)—**TrackArtist** (track artist name)

▪ If specific information has not been recorded on a CD TEXT disc, **NO XXXX** will be displayed (e.g., **NO ARTIST**).

Scrolling titles in the display

This unit can display the first 20 letters only of **DiscTitle**, **DiscArtist**, **TrackTitle** and **TrackArtist**. When the recorded information is longer than 20 letters, you can scroll the text to the left so that the rest of the title can be seen.

● Keep touching DISP until the title begins to scroll to the left.

The rest of the title will appear in the display.

Selecting tracks from the track title list

Track title list lets you see the list of track titles on a CD TEXT disc and select one of them to playback.

1 Touch A.MENU and FUNCTION and then touch TRACK LIST.

2 Touch PREV or NEXT to switch between the lists of titles.

3 Touch your favorite track title.

That selection will begin to play.

Using compression and bass emphasis

You can use these functions only with a multi CD player that supports them.

Using **COMP** (compression) and **DBE** (dynamic bass emphasis) functions let you adjust the sound playback quality of the multi CD player. Each of the functions have a two step adjustment. The **COMP** function balances the output of louder and softer sounds at higher volumes. **DBE** boosts bass levels to give playback a fuller sound. Listen to each of the effects as you select through them and use the one that best enhances the playback of the track or CD that you are listening to.

1 Touch A.MENU and FUNCTION and then touch COMPRESSION.

▪ If the multi CD player does not support **COMP/DBE**, **NO COMPRESSION** is displayed when you attempt to select it.

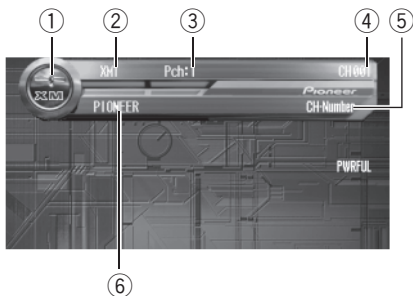
2 Touch ▲▼ to select your favorite setting.

Touch **▲▼** repeatedly to switch between the following settings:

OFF—COMP1—COMP2—OFF—DBE1—DBE2

▪ You can also select the desired setting by moving the joystick up or down.

Listening to the XM



You can use this unit to control a XM satellite digital tuner (GEX P910XM), which is sold separately.

For details concerning operation, refer to the XM tuner's operation manuals. This section provides information on XM operations with this unit which differs from that described in the XM tuner's operation manual.

- This unit does not have the text scroll function.
- With this unit, you can operate one additional function: XM channel direct selection.

① Source icon

Shows what the source has been selected.

② XM band indicator

Shows the XM band which has been selected.

③ XM preset number indicator

Shows what XM preset has been selected.

④ XM channel number indicator

Shows to which XM channel number the tuner is tuned.

⑤ XM channel select setting indicator

Shows what channel select setting has been selected. **CH-Number** is displayed when **CH NUMBER** is selected, and **Category** is displayed when **CATEGORY** is selected.

⑥ XM channel name

Shows the channel name of broadcast channel.

1 Touch the source icon and then touch XM to select the XM.

- When the source icon is not displayed, you can display it by touching the screen.

2 Touch the screen to display the touch panel keys.

3 Touch BAND to select a XM band.

Touch **BAND** repeatedly until the desired XM band is displayed, **XM1**, **XM2** or **XM3**.

4 To perform tuning, touch ◀ or ▶.

The channels move up or down step by step. Channels that cannot currently be selected are skipped, and the next channel is selected.

- If you keep touching ◀ or ▶, you can increase or decrease channel number continuously.
- You can also perform manual tuning by moving the joystick left or right.
- You can also perform tuning from a desired channel category. (Refer to *Selecting the channel in the channel category* on page 68.)

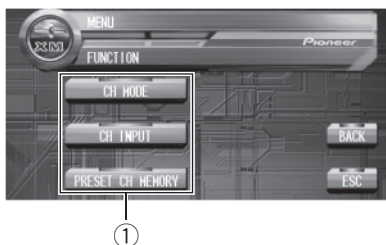


Notes

- If you do not use the touch panel keys for 30 seconds, they will be hidden automatically.
- You can go to the next group of touch panel keys by touching →. [■]

XM tuner

Introduction of advanced XM tuner operation



① Function display

Shows the function names.


● Touch **A.MENU** and then touch **FUNCTION** to display the function names.

The function names are displayed and operable ones are highlighted.

- When **A.MENU** is not displayed, you can display it by touching the screen.
- You can also display **MENU** by clicking the joystick.
- To return to the previous display, touch **BACK**.
- To return to the channel display, touch **ESC**.




Note

If you do not operate the function within about 30 seconds, the display is automatically returned to the channel display. 

Switching the XM display

● Touch **DISP** to switch the XM display.

Each time you touch **DISP** changes the XM display in the following order:

Channel name—Artist name/feature—Song/program title—Channel category 

Storing and recalling broadcast stations

If you touch any of the preset tuning keys **P1—P6** you can easily store up to six broadcast stations for later recall with the touch of a key.

● When you find a station that you want to store in memory keep touching a preset tuning key **P1—P6** until the XM preset number stops flashing.


The number you have touched will flash in the XM preset number indicator and then remain lit. The selected station has been stored in memory.

The next time you touch the same preset tuning key **P1—P6** the station is recalled from memory.

- When the touch panel keys are not displayed, you can display them by touching the screen.
- When **P1—P6** are not displayed, you can display them by touching **→**.



Notes

- Up to 18 stations, 6 for each of three XM bands can be stored in memory.
- You can also use **▲** and **▼** to recall stations assigned to preset tuning keys **P1—P6**.
- You can also perform the same operations using **PRESET CH MEMORY**. To display **PRESET CH MEMORY**, touch **A.MENU** and then touch **FUNCTION**. 

Switching the XM channel select setting

You can switch if you select a channel with a channel number or from a channel category when you select a channel.

- Touch **MODE** to select the desired channel select setting.

Touch **MODE** repeatedly to switch between the following channel select settings:

CH NUMBER (channel number select setting)

—**CATEGORY** (channel category select setting)

Note

You can also perform the same operations using **CH MODE**. To display **CH MODE**, touch **A.MENU** and then touch **FUNCTION**.

Selecting the channel in the channel category

- 1 Touch **MODE** to select the channel category select setting.

Touch **MODE** repeatedly to switch between the following channel select settings:

CH NUMBER (channel number select setting)

—**CATEGORY** (channel category select setting)

- 2 Touch **▲** or **▼** to select the desired channel category.

- 3 Touch **◀** or **▶** to select the desired channel in the selected channel category. 

Selecting the XM channel directly


You can select the XM channel directly by entering the desired channel number.

- 1 Touch **DIRECT**.
- 2 Touch **0—9** to input the desired channel number.
 - To cancel the input numbers, touch **C**.

- 3 While the input number is displayed, touch **ENTER**.

The entered XM channel is selected.

Note

You can also perform the same operations using **CH INPUT**. To display **CH INPUT**, touch **A.MENU** and then touch **FUNCTION**. 

Display the ID code


Channel number select setting

If you select **CH 000**, the ID code is displayed.

- Touch **◀** or **▶** to select **CH 000**.

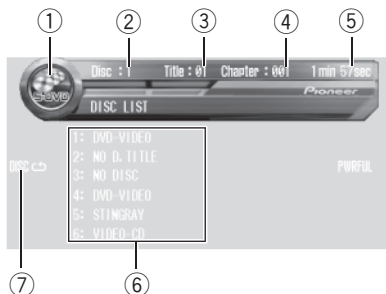
Channel category select setting

RADIO ID is provided as a channel category for displaying the ID code.

- Touch **▲** or **▼** to select **RADIO ID** from channel category.
 - If you select another channel, display of the ID code is canceled.
 - Display of the ID code repeats displaying **RADIO ID** and the ID code one after the other. 

DVD Player

Playing a disc



You can use this unit to control a DVD player or multi DVD player, which is sold separately.

For details concerning operation, refer to the DVD player's or multi DVD player's operation manuals. This section provides information on DVD operations with this unit which differs from that described in the DVD player's or multi DVD player's operation manual.

- Switch the remote control selection to suitable setting to operate DVD players. (Refer to page 86.)
- Switch the remote control operation mode to **DVD** to operate the DVD player by using remote control. (Refer to page 18.)

① Source icon

Shows what the source has been selected.

② Disc number indicator

Shows the disc currently playing when using a multi DVD player.

③ Title number indicator

Shows the title currently playing during DVD video playback.

④ Chapter/track number indicator

Shows the chapter/track currently playing.

⑤ Play time indicator

Shows the elapsed playing time of the current chapter/track.

⑥ Disc list display

Shows the list of the disc type or the disc title when using a multi DVD player.

⑦ Repeat indicator

Shows the selected repeat range.

1 Touch the source icon and then touch S-DVD to select the DVD player.

- When the source icon is not displayed, you can display it by touching the screen.

2 Touch the screen to display the touch panel keys.

3 To skip back or forward to another chapter/track, touch ◀ or ▶ shortly.

- You can also skip back or forward to another chapter/track by moving the joystick left or right. When using the joystick on the remote control, switch the remote control operation mode to **AVH**. (Refer to page 18.)

4 To perform fast forward or reverse, keep touching ◀ or ▶ for about one second and release.

- You can also perform fast reverse/fast forward by holding the joystick left or right. When using the joystick on the remote control, switch the remote control operation mode to **AVH**. (Refer to page 18.)



Note

If you do not use the touch panel keys for 30 seconds, they will be hidden automatically. ■

Turning the DVD player on or off

- Only the remote control can operate this function. To perform this function, switch the remote control operation mode to **DVD**. (Refer to page 18.)

- **Press REAR.S to turn the DVD player on.**

- To turn the DVD player off, press **REAR.S** again. 


Selecting a disc

- Only when a multi DVD player is connected to this unit, you can operate this function.

- **Touch any of 1—6 to select the desired disc.**

- When **1—6** are not displayed, you can display them by touching **DISP**.
- You can also sequentially select a disc by using **▲/▼**.
- You can also skip back or forward to another disc by moving the joystick up or down.

When using the joystick on the remote control, switch the remote control operation mode to **AVH**. (Refer to page 18.)

- You can also select a disc by pressing **BACK** or **ENTERTAINMENT** on the remote control when the remote control operation mode is switched to **DVD**. 

Introduction of advanced DVD player operation



① **Function display**

Shows the function names.


- **Touch A.MENU and then touch FUNCTION to display the function names.**

The function names are displayed and operable ones are highlighted.

- When **A.MENU** is not displayed, you can display it by touching the screen.
- You can also display **MENU** by clicking the joystick.
- To return to the previous display, touch **BACK**.
- To return to the playback display, touch **ESC**.



Note

If you do not operate the function within about 30 seconds, the display is automatically returned to the playback display. 

Repeating play

- During PBC playback of Video CDs, this function cannot be operated.

1 Touch A.MENU and FUNCTION and then touch REPEAT.

DVD Player

2 Touch ◀▶ to select the repeat range.

During DVD video playback

- **DISC REPEAT** – Repeat the current disc
- **CHAPTER REPEAT** – Repeat just the current chapter
- **TITLE REPEAT** – Repeat just the current title

During Video CD or CD playback

- **DISC REPEAT** – Repeat the current disc
- **TRACK REPEAT** – Repeat just the current track



Notes

- If you select other discs during repeat play, the repeat play range changes to **DISC REPEAT**.
- If you perform track search or fast forward/reverse during **TRACK REPEAT**, the repeat play range changes to **DISC REPEAT**.

Pausing disc playback

1 Touch A.MENU and FUNCTION and then touch PAUSE.

2 Touch ▲ to turn pause on.

- To turn pause off, touch ▼.

Playing tracks in a random order

- You can operate this function only during CD playback.

1 Touch A.MENU and FUNCTION and then touch RANDOM.

2 Touch ▲ to turn random play on.

Tracks will play in a random order.

- To turn random play off, touch ▼.

Scanning tracks of a CD

- You can operate this function only during CD playback.

1 Touch A.MENU and FUNCTION and then touch SCAN.

2 Touch ▲ to turn scan play on.

The first 10 seconds of each track is played.

3 When you find the desired track touch ▼ to turn scan play off.

Using ITS playlists

- Only when a multi DVD player is connected to this unit, you can operate these functions.
- This function differs slightly from ITS playback with a multi CD player. With multi DVD player, ITS playback applies only to the CD playing. For details, refer to *Using ITS playlists* on page 62.

Using disc title functions

You can input CD titles and display the title. Then you can easily search for and select a desired disc for play.

Entering disc titles

Disc title input lets you input CD titles up to 10 letters long into the multi DVD player. For details concerning operation, refer to *Entering disc titles* on page 64.

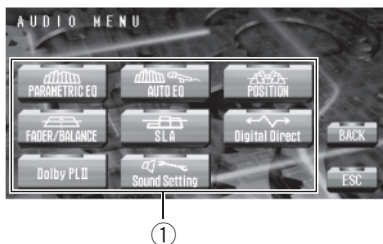
- Only when a multi DVD player is connected to this unit, you can operate this function.

Introduction of audio adjustments

By carrying out the following settings/adjustments in order, you can create a finely tuned sound field effortlessly.

- 1 Using the position selector
- 2 Selecting a cut off frequency
- 3 Auto TA and EQ (auto time alignment and auto equalizing)

Operating the audio menu



① Audio display

Shows the audio function names.

● Touch **A.MENU** and then touch **AUDIO** to display the audio function names.

The audio function names are displayed and operable ones are highlighted.

- When **A.MENU** is not displayed, you can display it by touching the screen.
- You can also display **MENU** by clicking the joystick.
- When playing discs recorded with more than 96 kHz sampling frequency, you cannot use audio functions. Also, equalizer curve setting, **POSITION**, **AUTO EQ** and **AUTO TA** will be cancelled.
- When playing discs recorded with more than 96 kHz sampling frequency, audio is output from front speaker only.
- When selecting the FM tuner as the source, you cannot switch to **SLA**.
- To return to the previous display, touch **BACK**.
- To return to the display of each source, touch **ESC**.

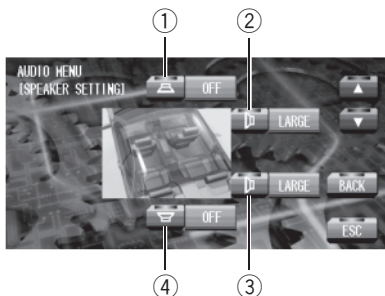


Note

If you do not operate the audio function within about 30 seconds, the display is automatically returned to the source display.

Audio Adjustments


About speaker settings



- ① Center speaker
- ② Front speaker
- ③ Rear speaker
- ④ Subwoofer



Note

When selecting **SP LEVEL**, **Test Tone** or **Time Alignment**, L/R speaker adjustments for the front and rear can be adjusted separately. 

Using the equalizer

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

Recalling equalizer curves

There are nine stored equalizer curves which you can easily recall at any time. Here is a list of the equalizer curves:

Display	Equalizer curve
SUPER BASS (S BASS)	Super bass
POWERFUL (PWRFUL)	Powerful
NATURAL	Natural
VOCAL	Vocal
FLAT	Flat
CUSTOM1	Custom 1
CUSTOM2	Custom 2
CUSTOM3	Custom 3
CUSTOM4	Custom 4

- **CUSTOM1**, **CUSTOM2**, **CUSTOM3** and **CUSTOM4** are adjusted equalizer curves.
- When **FLAT** is selected no supplement or correction is made to the sound. This is useful to check the effect of the equalizer curves by switching alternatively between **FLAT** and a set equalizer curve.

- **Press EQ to select the equalizer.**

Press **EQ** repeatedly to switch between the following equalizers:

SUPER BASS (S BASS)—
POWERFUL (PWRFUL)—**NATURAL**—**VOCAL**
 —**FLAT**—**CUSTOM1**—**CUSTOM2**—
CUSTOM3—**CUSTOM4**

Adjusting 3-band parametric equalizer

For custom equalizer curves (**CUSTOM1**—**CUSTOM4**), you can adjust the front, rear and center equalizer curves separately by selecting a center frequency, an equalizer level and a Q factor for each band.

- A separate **CUSTOM1** curve can be created for each source.
- **CUSTOM2**, **CUSTOM3** and **CUSTOM4** curves can be created common to all sources.

Audio Adjustments

- 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 output to the balance you have already got among the other speakers.

1 Touch **A.MENU** and **AUDIO** and then touch **PARAMETRIC EQ**.

2 Touch **C.EQ** to select the equalizer.

Touch **C.EQ** repeatedly to switch between the following equalizers:

SUPER BASS (S BASS)—
POWERFUL (PWRFUL)—**NATURAL**—**VOCAL**
 —**FLAT**—**CUSTOM1**—**CUSTOM2**—
CUSTOM3—**CUSTOM4**

3 Touch **POS** to select the speaker to be adjusted.

Each time you touch **POS** selects speakers in the following order:

FRONT (front speakers)—**REAR** (rear speakers)—**CENTER** (center speaker)

- You cannot select speakers whose size is set **OFF**.

4 Touch **BAND** to select the equalizer band to be adjusted.

Each time you touch **BAND** selects equalizer bands in the following order:

LOW (low)—**MID** (mid)—**HIGH** (high)

5 Touch **◀** or **▶** to select the center frequency of selected band.

Touch **◀** or **▶** until the desired frequency appears in the display.

**40—50—63—80—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—10k—12.5k** (Hz)

- 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 that have intervals shorter than 1 octave among the center frequencies of the three bands.

6 Touch **▲** or **▼** to adjust the equalizer level.

Each time you touch **▲** or **▼** increases or decreases the equalizer level. **+12dB** — **-12dB** is displayed as the level is increased or decreased.

7 Touch **Q.Fac** to select the desired Q factor.

Each time you touch **Q.Fac** switches between the following Q factor:

WIDE (wide)—**NARROW** (narrow)

- You can adjust parameters for each band of the other speakers in the same way.

8 Touch **ESC** to return to the playback display.

Using the auto-equalizer

The auto equalizer is the equalizer curve created by auto TA and EQ (refer to *Auto TA and EQ* (auto time alignment and auto equalizing) on page 80).

You can turn the auto equalizer on or off.

1 Touch **A.MENU** and **AUDIO** and then touch **AUTO EQ**.

- You cannot use this function if auto TA and EQ has not been carried out.

2 Touch **▲** to turn the auto-equalizer on.

- To turn auto equalizer off, touch **▼**. 

Audio Adjustments

Using the position selector

One way to assure a more natural sound is to accurately position the stereo image, putting you right in the center of the sound field. The position selector function lets you automatically adjust the speaker output levels and inserts a delay time to match the number and position of occupied seats.


- 1 Touch **A.MENU** and **AUDIO** and then touch **POSITION**.
- 2 Touch **◀/▶/▲/▼** to select a listening position. Touch one of these, **◀/▶/▲/▼**, to select a listening position as listed in the table.

Key	Display	Position
◀	FL	Front seat left
▶	FR	Front seat right
▲	FRONT	Front seats
▼	ALL	All seats

- To cancel the selected listening position, touch the same key again.



Note

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 speaker output levels using a test tone or Adjusting the speaker output levels*. 

Using balance adjustment

You can select a fader/balance setting that provides an ideal listening environment in all occupied seats.

- 1 Touch **A.MENU** and **AUDIO** and then touch **FADER/BALANCE**.

2 Touch ▲ or ▼ to adjust front/rear speaker balance.


Each time you touch ▲ or ▼ moves the front/rear speaker balance towards the front or the rear.

FAD F:25 – FAD R:25 is displayed as the front/rear speaker balance moves from front to rear.

- **FAD FR: 0** is the proper setting when only two speakers are used.

3 Touch ◀ or ▶ to adjust left/right speaker balance.

Each time you touch ◀ or ▶ moves the left/right speaker balance towards the left or the right.

BAL L:25 – BAL R:25 is displayed as the left/right speaker balance moves from left to right. 

Adjusting source levels

SLA (source level adjustment) lets you adjust the volume level of each source to prevent radical changes in volume when switching between sources.

- Settings are based on the FM tuner volume level, which remains unchanged.

1 Compare the FM tuner volume level with the level of the source you wish to adjust.

2 Touch **A.MENU** and **AUDIO** and then touch **SLA**.


3 Touch ▲ or ▼ to adjust the source volume.

Each time you touch ▲ or ▼ increases or decreases the source volume.

+8dB – –8dB is displayed as the source volume is increased or decreased.



Notes

- The AM tuner volume level can also be adjusted with source level adjustments.
- Video CD, CD and MP3 are set to the same source level adjustment volume automatically.
- DVD and the optional DVD player are set to the same source level adjustment volume automatically.
- External unit 1 and external unit 2 are set to the same source level adjustment volume automatically.
- AUX (auxiliary input) and AV (video input) are set to the same source level adjustment volume automatically. 

Using the direct control

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

- All audio functions are locked out during the direct control is on except **VOLUME**.

1 Touch A.MENU and AUDIO and then touch Digital Direct.

2 Touch ▲ to turn the direct control on.

- To turn direct control off, touch ▼. 

Using the Dolby Pro Logic II

Dolby Pro Logic **II** creates five full bandwidth output channels from two channel sources to achieve high purity matrix surround.

- If both the center and the rear speakers are set to **OFF**, you cannot use this function.
- Dolby Pro Logic **II** supports up to 48kHz sampling rate stereo source and has no effect on the other type of source.

1 Touch A.MENU and AUDIO and then touch Dolby PLII.

2 Touch any of the following touch panel keys to select the desired mode.

- **MOVIE** – The Movie mode suitable for movie playback
- **MUSIC** – The Music mode suitable for music playback
- **MATRIX** – The Matrix mode in the case when the FM radio reception is weak
- **OFF** – Turn Dolby Pro Logic **II** off
- **MUSIC ADJUST** – Adjust the Music mode
 - You can operate **MUSIC ADJUST** only when **MUSIC** has been selected.

Adjusting the Music mode

You can adjust the Music mode as following three controls.

- Panorama (**PANORAMA**) extends the front stereo image to include the surround speakers for an exciting “wraparound” effect.
- Dimension (**DIMENSION**) allows you to gradually adjust the sound field either towards the front or the rear.
- Center Width (**CENTER WIDTH**) allows center channel sounds to be positioned between the center speaker and the left/right stage presentation for both the driver and the front passenger.

1 Touch A.MENU and AUDIO and then touch Dolby PLII.

2 Touch MUSIC and then touch MUSIC ADJUST.

- You can operate **MUSIC ADJUST** only when **MUSIC** has been selected.

Audio Adjustments

3 Touch PANORAMA and then touch ► to turn the Panorama control on.

- To turn the Panorama control off, touch ◀.

4 Touch DIMENSION and then touch ◀ or ► to adjust front/surround speaker balance.

Each time you touch ◀ or ► moves the sound towards the front or the surrounds.

+3 – –3 is displayed as the front/surround speaker balance moves from front to surrounds.

5 Touch CENTER WIDTH and then touch ◀ or ► to adjust the center image.

Each time you touch ◀ or ► gradually spreads the center channel sound into the front left and right speakers over a range **0–7**.

3 is the default and it's recommended for most recordings. **0** places all center sound in the center speaker. **7** places all center sound equally in the left/right speakers. ◻

Setting the speaker setting

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** (large) if the speaker is capable of reproducing sounds of about 100 Hz or below. Otherwise select **SMALL** (small).

- Low frequency range is not output if the subwoofer is set to **OFF** and the front and rear speakers set to **SMALL** or **OFF**.
- 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.

1 Touch A.MENU and AUDIO and then touch Sound Setting.

2 Touch SP SET.

3 Touch the speaker to be adjusted.

4 Touch ▲ or ▼ to select the correct size for the selected speaker.

Each time you touch ▲ or ▼ selects the size in the following order:

OFF (off)—**SMALL** (small)—**LARGE** (large)

- You cannot select **OFF**, when the front speakers have been selected.
- You can turn **ON** or **OFF**, when the subwoofer has been selected.

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 the bass gets more 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 Touch A.MENU and AUDIO and then touch Sound Setting.

2 Touch SP SET.

3 Touch the subwoofer.

4 Touch ▲ to turn subwoofer output on.

- To turn subwoofer output off, touch ▼.

5 Touch ◀ or ► to select the phase of subwoofer output.

Touch ► to select normal phase and **NORMAL** appears in the display. Touch ◀ to select reverse phase and **REVERSE** appears in the display. ◻

Selecting a cut-off frequency

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

1 Touch A.MENU and AUDIO and then touch Sound Setting.

2 Touch Cross Over.

3 Touch the speaker to be adjusted.

- You cannot select speakers whose size is set **OFF**.

4 Touch ▲ or ▼ to select cut-off frequency.

Each time you touch ▲ or ▼ selects cut off frequencies in the following order:

63—80—100—125—160—200 (Hz)



Note

Selecting cut off frequencies are to set cut off frequencies of the subwoofer's L.P.F. (low pass filter) and that of the **SMALL** speaker H.P.F. (high pass filter). The cut off frequency setting has no effect if the subwoofer is set to **OFF** and other speakers are set to **LARGE** or **OFF**.

Adjusting the speaker output levels

You can readjust the speaker output levels using a test tone while listening to music.

1 Touch A.MENU and AUDIO and then touch Sound Setting.

2 Touch SP LEVEL.

3 Touch the speaker to be adjusted.

- You cannot select speakers whose size is set **OFF**.

4 Touch ▲ or ▼ to adjust the speaker output level.

Each time you touch ▲ or ▼ increases or decreases the speaker output level. **+10 – -10** is displayed as the level is increased or decreased.



Note

To adjust the speaker output levels at this mode is the same as making the speaker output levels at **Test Tone**. Both provide the same results.

Adjusting the speaker output levels using a test tone

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

1 Touch A.MENU and AUDIO and then touch Sound Setting.

2 Touch Test Tone.

The test tone is output. It rotates from speaker to speaker in the following sequence at intervals of about two seconds. The current settings for the speaker over which you hear the test tone are shown in the display.

Front speaker left—Center speaker—Front speaker right—Rear speaker right—Rear speaker left—Subwoofer

Check each speaker output level. If no adjustments are needed, perform step 4 to stop the test tone.

- The settings do not appear for speakers whose size is set **OFF**.

Audio Adjustments

3 Touch ▲ or ▼ to adjust the speaker output level.

Each time you touch ▲ or ▼ increases or decreases the speaker output level. **+10** – **–10** is displayed as the level is increased or decreased.

- The test tone rotates to the next speaker after about two seconds from the last operation.

4 Touch BACK to stop the test tone output.



Notes

- If needed, select speakers and adjust their 'absolute' output levels. (Refer to *Adjusting the speaker output levels* on the previous page.)
- To adjust the speaker output levels at this mode is the same as making the speaker output levels at **SP LEVEL**. Both provide the same results.

Using the time alignment

The time alignment lets you adjust the distance between each speaker and the listening position.

1 Touch A.MENU and AUDIO and then touch Sound Setting.

2 Touch Time Alignment.

3 Touch any of the following touch panel keys to select the time alignment.

- **INITIAL** – Initial time alignment (factory setting)
- **AUTO TA** – Time alignment created by auto TA and EQ. (Refer to *Auto TA and EQ (auto time alignment and auto equalizing)* on the next page.)
- **CUSTOM** – Adjusted time alignment that you can create for yourself

- **OFF** – Turn the time alignment off
- **ADJUSTMENT** – Adjust the time alignment as desired
 - You cannot select **AUTO TA** if auto TA and EQ has not been carried out.
 - You cannot select **ADJUSTMENT** when neither **FL** nor **FR** is selected in **POSITION**.

Adjusting the time alignment

You can adjust the distance between each speaker and the selected position.

- An adjusted time alignment is memorized in **CUSTOM**.

1 Touch A.MENU and AUDIO and then touch Sound Setting.

2 Touch Time Alignment and then touch ADJUSTMENT.

- You cannot select **ADJUSTMENT** when neither **FL** nor **FR** is selected in **POSITION**.

3 Touch the speaker to be adjusted.

- You cannot select speakers whose size is set **OFF**.

4 Touch ▲ or ▼ to adjust the distance between the selected speaker and the listening position.

Each time you touch ▲ or ▼ increases or decreases the distance. **0inch** – **200inch** is displayed as the distance is increased or decreased.

5 Touch ESC to return to the playback display.

Auto TA and EQ (auto-time alignment and auto-equalizing)

The auto time alignment automatically adjusts the distance between each speaker and the listening position.

The auto equalizer automatically measures the car interior acoustic characteristics, and then creates the auto equalizer curve based on that information.



WARNING

To prevent accidents, never carry out auto TA and EQ while driving. When this function measures the car interior acoustic characteristics to create an auto equalizer curve, a loud measurement tone (noise) may be output from the speakers.



CAUTION

- Carrying out auto TA and EQ under the following conditions may damage the speakers. Be sure to check the conditions thoroughly before carrying out auto TA and EQ.
 - When speakers are incorrectly connected. (e.g., When a rear speaker is connected to a subwoofer output.)
 - When a speaker is connected to a power amp delivering output higher than the speaker's maximum input power capability.
- If the microphone is placed in an unsuitable position the measurement tone may become loud and measurement may take a long time, resulting in a drain on battery power. Be sure to place the microphone in the specified location.

Before operating the auto TA and EQ function

- Carry out auto TA and EQ in as quiet a place as possible, with the car engine and air conditioning switched off. Also cut power to car phones or portable telephones in the car, or remove them from the car before carrying out auto TA and EQ. Sounds other than the measurement tone (surrounding sounds, engine sound, telephones ringing etc.) may prevent correct measurement of the car interior acoustic characteristics.
- Be sure to carry out auto TA and EQ using the supplied microphone. Using another microphone may prevent measurement, or result in incorrect measurement of the car interior acoustic characteristics.
- When front speaker is not connected, auto TA and EQ cannot be carried out.
- When this unit is connected to a power amp with input level control, auto TA and EQ may not be possible if you lower power amp input level. Set the power amp's input level to the standard position.
- When this unit is connected to a power amp with an LPF, turn off the LPF on the power amp before carrying out auto TA and EQ. In addition, the cut off frequency for built in LPF of an active subwoofer should be set to the highest frequency.
- The time alignment value calculated by auto TA and EQ may differ from the actual distance in the following circumstances. However, the distance has been calculated by computer to be the optimum delay to give accurate results for the circumstances, so please continue to use this value.
 - When the reflected sound within a vehicle is strong and delays occur.
 - When delays occur for low sounds due to the influence of the LPF on active subwoofers or external amps.

Audio Adjustments

- Auto TA and EQ changes the audio settings as below:
 - The fader/balance settings return to the center position. (Refer to page 75.)
 - The equalizer curve switches to **FLAT**. (Refer to page 73.)
 - It will be adjusted automatically to high pass filter setting for front, center and rear speaker.
- If you carry out auto TA and EQ when a previous setting of this already exists, the setting will be replaced.

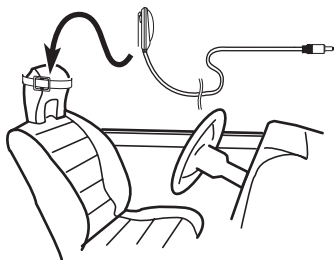
Carrying out auto TA and EQ

1 Stop the car in a place that is as quiet as possible, close all doors, windows and the sun roof, and then turn the engine off.

If the engine is left running, engine noise may prevent correct auto TA and EQ.

2 Fix the supplied microphone in the center of the headrest of the driver's seat, facing forward, using the belt (sold separately).

The auto TA and EQ may differ depending on where you place the microphone. If desired, place the microphone on the front passenger seat to carry out auto TA and EQ.



3 Turn the ignition switch to ON or ACC.

If the car's air conditioner or heater is turned on, turn it off. Noise from the fan in the air

conditioner or heater may prevent correct auto TA and EQ.

- Press **SOURCE** to turn the source on if this unit is turned off.

4 Select the position for the seat on which the microphone is placed.

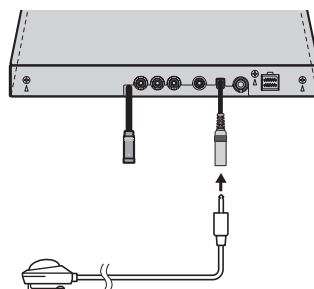
Refer to *Using the position selector* on page 75.

- If no position is selected before you start auto TA and EQ, **FL** is selected automatically.

5 Press SOURCE and hold until the unit turns off.

6 Press and hold EQ to enter the auto TA and EQ measurement mode.

7 Plug the microphone into the microphone input jack on the hide-away unit.



8 Touch START to start the auto TA and EQ.

9 Get out of the car and close the door within 10 seconds when the 10-second count-down starts.

The measurement tone (noise) is output from the speakers, and auto TA and EQ begins.

- When all speakers are connected, auto TA and EQ is completed in about nine minutes.
- To stop auto TA and EQ, touch **STOP**.


- To cancel auto TA and EQ part way through, touch **BACK** or **ESC**

10 When auto TA and EQ is completed, Complete is displayed.

When correct measurement of car interior acoustic characteristics is not possible, an error message is displayed. (Refer to *Understanding auto TA and EQ error messages* on page 99.)

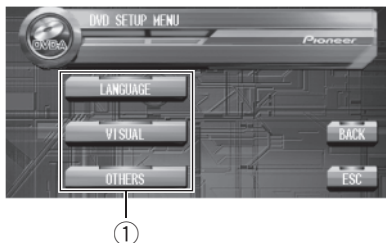
11 Touch ESC to cancel the auto TA and EQ mode.

12 Store the microphone carefully in the glove compartment.

Store the microphone carefully in the glove compartment or any other safe place. If the microphone is subjected to direct sunlight for an extended period, high temperatures may cause distortion, color change or mal function. 

Setting up the DVD player

Introduction of DVD setup adjustments



You can use this menu to change audio, subtitle, parental lock and other DVD settings.

- When watching a DVD/Video CD on the rear display independently, you cannot operate this menu.

① DVD setup menu display

Shows the DVD setup menu names.

1 Touch ■.

SETUP will be displayed instead of **MENU**.

2 Touch **SETUP** when the disc is stopped.

The DVD setup menu is displayed.


- When **SETUP** is not displayed, you can display it by touching the screen.
- You can also display **DVD SETUP MENU** by pressing **MENU** on the remote control when the disc is stopped.

3 Touch any of **LANGUAGE**, **VISUAL** or **OTHERS** to display the DVD setup function names.

The DVD setup function names in selected menu are displayed.

- To go to the next group of function names, touch **NEXT**.
- To return to the previous group of function names, touch **PREV**.
- To return to the previous display, touch **BACK**.
- To return to the playback display, touch **ESC**.

Note

If you do not operate the DVD setup function within about 30 seconds, the display is automatically returned to the playback display. 

Setting the subtitle language

You can set a desired subtitle language. If the selected subtitle language is recorded on the DVD, subtitles are displayed in that language.

1 Touch **SETUP** and **LANGUAGE** and then touch **SUB TITLE LANGUAGE**.

A subtitle language menu is displayed and the currently set language is highlighted.

- To switch to the second language select menu, touch **NEXT**.
- To return to the first language select menu, touch **PREV**.

2 Touch the desired language.

A subtitle language is set.

- If you have selected **OTHERS**, refer to *When you select OTHERS on the next page*.

Notes

- If the selected language is not recorded on the disc, the language specified on the disc is displayed.
- You can also switch the subtitle language by touching **SUB.T** during playback. (Refer to *Changing the subtitle language during playback (Multi subtitle)* on page 42.)
- Even if you use **SUB.T** to switch the subtitle language, this does not affect the settings here.

Setting up the DVD player

When you select OTHERS

When you select **OTHERS**, a language code input display is shown. Refer to *Language code chart for DVD* on page 104 to input the four digit code of the desired language.

1 Touch 0—9 to input the language code.

- To cancel the input numbers, touch **C**.
- You can also input the desired number by using the joystick and **0-9**.

2 While the input number is displayed, touch ENTER.

Setting the audio language

You can set the preferred audio language.

1 Touch SETUP and LANGUAGE and then touch AUDIO LANGUAGE.

An audio language menu is displayed and the currently set language is highlighted.

- To switch to the second language select menu, touch **NEXT**.
- To return to the first language select menu, touch **PREV**.

2 Touch the desired language.


The audio language is set.

- If you have selected **OTHERS**, refer to *When you select OTHERS on this page*.



Notes

- 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 by touching **AUDIO** during playback. (Refer to *Changing audio language during playback (Multi audio)* on page 42.)

- Even if you use **AUDIO** to switch the audio language, this does not affect the settings here. 

Setting the menu language

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

1 Touch SETUP and LANGUAGE and then touch MENU LANGUAGE.

A menu language menu is displayed and the currently set language is highlighted.

- To switch to the second language select menu, touch **NEXT**.
- To return to the first language select menu, touch **PREV**.


2 Touch the desired language.

The menu language is set.

- If you have selected **OTHERS**, refer to *When you select OTHERS on this page*.



Note

If the selected language is not recorded on the disc, the language specified on the disc is displayed. 

Setting assist subtitles on or off

Assist subtitles offer explanations for the aurally impaired. However, they are only displayed if they are recorded on the DVD. You can turn assist subtitles on or off as desired.

1 Touch SETUP and LANGUAGE and then touch NEXT.

Setting up the DVD player

2 Touch ASSIST SUB TITLE.

3 Touch ▲ to turn assist subtitles on.

- To turn assist subtitles off, touch ▼. □

Setting angle icon display

You can set up that the angle icon appears on scenes where the angle can be switched.

1 Touch SETUP and VISUAL and then touch MULTI ANGLE.

2 Touch ▲ to turn angle icon display on.

- To turn angle icon display off, touch ▼. □

Setting the aspect ratio

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. Be sure to select the correct TV aspect for the display connected to **REAR MONITOR OUT**.

- When using a regular display, select either **LETTER BOX** or **PANSCAN**. Selecting **16:9** may result in an unnatural picture.
- If you select the TV aspect, this unit's display changes to the same setting.

1 Touch SETUP and VISUAL and then touch TV ASPECT.

2 Touch any of the following touch panel keys to select the TV aspect.

- **16:9** – Wide screen picture (16:9) is displayed as it is (initial setting)
- **LETTER BOX** – The picture is the shape of a letter box with black bands at the top and bottom of the screen

- **PANSCAN** – The picture is cut short at the right and left of the screen



Notes

- 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 12.)
- Some discs do not enable changing of the TV aspect. For details, refer to the disc's instructions. □

Setting the parental lock

Some DVD video discs 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.

- When you set a parental lock level and then play a disc featuring parental lock, code number input indications may be displayed. In this case, playback will begin when the correct code number is input.

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 Touch SETUP and VISUAL and then touch PARENTAL.

2 Touch 0—9 to input a four digit code number.

3 While the input number is displayed, touch ENTER.

The code number is set, and you can now set the level.

Setting up the DVD player

4 Touch ◀ or ▶ to select the desired level.

The parental lock level is set.

- **8** – Playback of the entire disc is possible (initial setting)
- **7-2** – Playback of discs for children and non adult oriented discs is possible
- **1** – Playback of discs for children only is possible



Notes

- 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.

Changing the level


You can change the set parental lock level.

1 Touch SETUP and VISUAL and then touch PARENTAL.

2 Touch 0—9 to input the registered code number.

3 Touch ENTER.


This enters the code number, and you can now change the level.

- If you input an incorrect code number, the icon  is displayed. Touch **C** and input the correct code number.
- If you forget your code number, refer to *If you forget your code number* on this page.

4 Touch ◀ or ▶ to select the desired level.

The new parental lock level is set.

If you forget your code number

Refer to *Changing the level* on this page, and touch **C** 10 times. The registered code number is canceled, letting you register a new one. 

To play back bonus groups

Some DVD audio discs have an extra 'bonus' group that requires a four digit password to access. See the disc packaging for details and the password. When you try and play the bonus group, the password input screen will automatically appear.

- The bonus group can be played back after the password has been entered until the disc is removed from the unit.

1 Touch SETUP and OTHERS and then touch BONUS GROUP.

2 Touch 0—9 to input a four digit password.

- If you input an incorrect password, touch **C** and then input the correct password.

3 While the input number is displayed, touch ENTER.

Setting remote control code type

When the remote control operation switch is set to **DVD**, changing the remote control code type enables you to operate the Pioneer DVD player by the supplied remote control. There are three remote codes, code type **A**, code type **B** and code type **AVH**. When using this unit with a multi DVD player (e.g. XDV P90), select code **A**. When using this unit with a DVD navigation unit, select code **B**. When using this unit only, select code **AVH**.

Setting up the DVD player

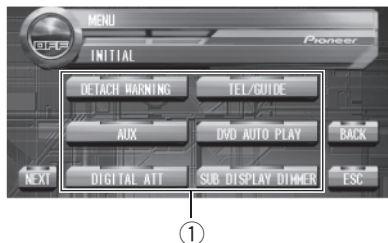
1 Set the remote control selection switch on the left side of the remote control to the appropriate position with a pen tip or other pointed instrument .

- If you select **AVH** mode, there is no need to take the following procedure.
- If you select **A/B** mode, take the following procedure and change the code type to the appropriate type.

2 Press 7 and 0 on the remote control simultaneously to change the code type.

Initially, the code type is set to **A**. Each time you press **7** and **0** simultaneously on the remote control the code type switches between **A** and **B**.

Adjusting initial settings



Initial settings lets you perform initial set up of different settings for this unit.

① Function display

Shows the function names.

1 Touch the source icon and then touch OFF to turn this unit off.

- When the source icon is not displayed, you can display it by touching the screen.

2 Touch A.MENU and then touch INITIAL to display the function names.

The function names are displayed and operable ones are highlighted.

- When **A.MENU** is not displayed, you can display it by touching the screen.
- You can also display **MENU** by clicking the joystick.
- To go to the next group of function names, touch **NEXT**.
- To return to the previous group of function names, touch **PREV**.
- To return to the previous display, touch **BACK**.
- To return to the display of each source, touch **ESC**.

Switching the warning tone

If the front panel is not detached from the head unit within five seconds of turning off the

ignition, a warning tone will sound. You can turn off the warning tone.

1 Touch A.MENU and INITIAL and then touch DETACH WARNING.

2 Touch ▲ to turn warning tone on.

- To turn warning tone off, touch ▼.

Switching the auxiliary setting

It is possible to use auxiliary equipment with this unit. Activate the auxiliary setting when using auxiliary equipment connected to this unit.

1 Touch A.MENU and INITIAL and then touch AUX.

2 Touch ▲ to turn auxiliary setting on.

- To turn auxiliary setting off, touch ▼.

Correcting distorted sound

You can minimize distortion likely caused by the equalizer curve settings.

Setting an equalizer level high can cause distortion. If high sound is crippled or distorted, try switching to **LOW**. Normally, leave the setting at **HIGH** to ensure quality sound.

1 Touch A.MENU and INITIAL and then touch DIGITAL ATT.

2 Touch either of the following touch panel keys to select the digital attenuator setting.

- **HIGH** – High quality sound
- **LOW** – Minimize distortion sound

Initial Settings

Switching the sound muting/attenuation

Sound from this system is muted, attenuated or mixed automatically in the following cases:

- When a call is made or received using a cellular telephone connected to this unit.
- When the voice guidance is output from a Pioneer navigation unit connected to this unit.

1 Touch A.MENU and INITIAL and then touch TEL/GUIDE.

2 Touch any of the following touch panel keys to select the desired setting.

- **MIXING** – Mixing
- **ATT –10dB** – Attenuation
- **ATT –20dB** – Attenuation (**ATT –20dB** has a stronger effect than **ATT –10dB**)
- **MUTE** – Muting



Notes

- The sound is turned off, **MUTE** is displayed and no audio adjustments are possible.
- The sound is attenuated, **ATT** is displayed and no audio adjustments, except volume control, are possible.
- Operation returns to normal when the phone connection or the voice guidance is ended.

Switching the automatic disc playback

You can turn automatic disc playback on or off when you insert a disc into the disc loading slot. When this function is on, the disc will be automatically played after it is inserted into the disc loading slot.

Initially, this function is set to on.

1 Touch A.MENU and INITIAL and then touch DVD AUTO PLAY.

2 Touch ▲ to turn automatic disc playback on.

- To turn automatic disc playback off, touch ▼.

Switching the dimmer setting for sub-display

To prevent the sub display from being too bright at night, the sub display is automatically dimmed when the car's headlights are turned on. You can turn dimmer on or off.

1 Touch A.MENU and INITIAL and then touch SUB DISPLAY DIMMER.

2 Touch ▲ to turn dimmer on.

- To turn dimmer off, touch ▼.

Resetting the audio functions

You can reset all audio functions except volume.

1 Touch A.MENU and INITIAL and then touch NEXT.

2 Touch AUDIO RESET.

3 Touch RESET.

4 Touch RESET again to reset audio functions.

- To cancel resetting the audio functions, touch **CANCEL**.

Mixing navigation voice/ beep and audio sound

When there is a navigation guidance, you can mix the guidance voice/beep sound from a Pioneer navigation unit with the audio sound from this system. You can select either mixing both the guidance voice and the beep sound or the guidance voice only.

- Only when a Pioneer navigation unit is connected to this unit, you can operate this function.

1 Touch A.MENU and INITIAL and then touch NEXT.

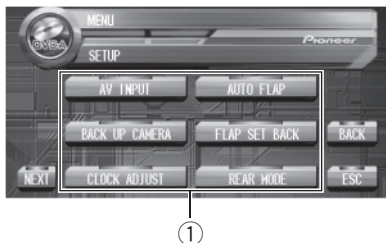
2 Touch NAVI MIXING.

3 Touch either of the following touch panel keys to select the mixing of navigation voice/beep.

- **ALL** – Mixing both guidance voice and beep
- **GUIDE** – Mixing guidance voice only

Other Functions

Introduction of setup adjustments



① Setup menu display

Shows the setup function names.

● Touch **A.MENU** and then touch **SETUP** to display the setup function names.

The setup function names are displayed and operable ones are highlighted.

- When **A.MENU** is not displayed, you can display it by touching the screen.
- You can also display **MENU** by clicking the joystick.
- To go to the next group of function names, touch **NEXT**.
- To return to the previous group of function names, touch **PREV**.
- To return to the previous display, touch **BACK**.
- To return to the display of each source, touch **ESC**.



Note

If you do not operate the setup function within about 30 seconds, the display is automatically returned to the source display.

Setting the video input

You can switch the setting according to the connected component.

- Select **VIDEO** to watch video of a connected component as **AV** source.
- Select **M-DVD** to watch video of a connected DVD player as **S-DVD** source.

1 Touch **A.MENU** and **SETUP** and then touch **AV INPUT**.

2 Touch any of the following touch panel keys to select the video input setting.

- **OFF** – No video component is connected
- **VIDEO** – External video component
- **M-DVD** – DVD player connected with RCA cable
 - When a DVD player is connected with an AV BUS cable, do not select **M-DVD** or else no picture is displayed even if you select **S-DVD**.

Setting for back-up camera

This unit features a function that automatically switches to the back up camera video (**BACK UP CAMERA IN** jack) when a back up camera is installed on your car. When the gear shift is in **REVERSE (R)** position, the video automatically switches to a back up camera video. (For more details, consult with your dealer.)

- We recommend that you use a camera which outputs mirror reversed images.
- Confirm the setting immediately whether the display changes to a back up camera video when the gear shift is moved to **REVERSE (R)** from another position.
- When the display changes to a back up camera video during normal drivings, switch to another setting.
- To return to the source display, press **MENU** on the head unit.

1 Touch **A.MENU** and **SETUP** and then touch **BACK UP CAMERA**.

2 Touch ▲ to turn back-up camera setting on.

- To turn back up camera setting off, touch ▼.

3 Touch ◀ or ▶ to select an appropriate setting for polarity.

Each time you touch ◀ or ▶ switches between the following polarity:

- **BATTERY** – When the polarity of the connected lead is positive while the gear shift is **REVERSE (R)** position
- **GND** – When the polarity of the connected lead is negative while the gear shift is **REVERSE (R)** position

Setting the clock

Use these instructions to set the clock.

- When this unit is turned on, time is displayed on the entertainment clock only. (Refer to *Switching the background display* on page 94.)

1 Touch A.MENU and SETUP and then touch CLOCK ADJUST.

2 Touch ◀ or ▶ to select the segment of the clock display you wish to set.

Each time you touch ◀ or ▶ will select one segment of the clock display:

Hour—Minute

As you select segments of the clock display the segment selected will be highlighted.



3 Touch ▲ or ▼ to set the clock.

Each time you touch ▲ will increase the selected hour or minute. Each time you touch ▼ will decrease the selected hour or minute.

Notes

- You can match the clock to a time signal by touching **JUST**.
 - If the minute is **00—29**, the minutes are rounded down. (e.g., **10:18** becomes **10:00**.)
 - If the minute is **30—59**, the minutes are rounded up. (e.g., **10:36** becomes **11:00**.)
- You can display the clock for eight seconds by pressing **FLIP DOWN/CLOCK** when the LCD panel is closed.
- Even when the sources are off, the clock display appears on the display.

Setting the automatic open function

To prevent the display from hitting the shift lever of an automatic vehicle when it is in **P** (park) position, or when you do not wish the display to open/close automatically, you can set the automatic open function in the manual mode.

1 Touch A.MENU and SETUP and then touch AUTO FLAP.

2 Touch either of the following touch panel keys to select the display to open/close automatically or manually.

- **AUTO** – The LCD panel will be opened or closed automatically with the turning of the ignition switch on or off
- **MANUAL** – You have to press **OPEN/CLOSE** to open/close the LCD panel


Other Functions

Adjusting the LCD panel slide position

To adjust the LCD panel slide position, you can turn the set back on or off.

1 Touch A.MENU and SETUP and then touch FLAP SET BACK.

2 Touch ▲ to turn the set back on, and the LCD panel slides to the back.

▪ To turn the set back off, touch ▼ and the LCD panel slides to the front. 


Setting the video of rear display

You can select either showing the same source as the front display or showing the video source on rear display independently.

- When selecting **FRONT SOURCE** in **REAR MODE**, when the selected source is an audio source, nothing is displayed on rear display.
- When selecting **FRONT SOURCE** in **REAR MODE**, audio is not output from **REAR MONITOR OUT**.

1 Touch A.MENU and SETUP and then touch REAR MODE.

2 Touch either of the following touch panel keys to select the video on rear display.

- **FRONT SOURCE** – Display the same source as the front display
- **SEPARATE** – Display the video source on rear display independently of front display 

Displaying the navigation video on rear display

When the navigation video is displayed on front display, you can select either showing the navigation video on rear display or the video of the selected source.

- Only when a Pioneer navigation unit is connected to this unit, you can operate this function.

1 Touch A.MENU and SETUP and then touch NEXT.

2 Touch REAR NAVI MAP.

3 Touch ▲ to display the navigation video on rear display.

▪ Touch ▼ to display the video of the selected source on rear display. 

Using the AUX source

An IP BUS RCA Interconnector such as the CD RB20/CD RB10 (sold separately) lets you connect this unit to auxiliary equipment featuring RCA output. For more details, refer to the IP BUS RCA Interconnector owner's manual.

Selecting AUX as the source

● **Touch the source icon and then touch AUX to select AUX as the source.**

- When the source icon is not displayed, you can display it by touching the screen.
- If the auxiliary setting is not turned on, **AUX** cannot be selected. For more details, see *Switching the auxiliary setting* on page 88.

Setting the AUX title

The title displayed for the **AUX** source can be changed.

1 After you have selected AUX as the source, touch A.MENU and FUNCTION and then touch NAME EDIT.

2 Touch ABC to select the desired character type.

Touch **ABC** repeatedly to switch between the following character type:

Alphabet (upper case), numbers and symbols
—Alphabet (lower case)

- You can select to input numbers and symbols by touching **012**.
- You can also switch character types by clicking the joystick.

3 Touch ▲ or ▼ to select a letter of the alphabet.

Each time you touch **▲** will display a letter of the alphabet in **A B C ... X Y Z**, numbers and symbols in **1 2 3 ... |}** order. Each time you touch **▼** will display a letter in the reverse order, such as **Z Y X ... C B A** order.



4 Touch ► to move the cursor to the next character position.

When the desired letter is displayed, touch **►** to move the cursor to the next position and then select the next letter. Touch **◀** to move backwards in the display.

5 Touch OK to store the entered title in memory.

- You can also store the entered title in memory by moving the cursor to right until it disappears.

6 Touch ESC to return to the playback display. ◻

Switching the background display

You can switch background displays while listening to each source.

● **Press ENTERTAINMENT.**

Each time you press **ENTERTAINMENT** the display changes in the following order:

Video of currently selected source—**PICTURE1** (picture 1)—**PICTURE2** (picture 2)—**SPEANA** (spectrum analyzer)—**LEVEL METER1** (level meter 1)—**LEVEL METER2** (level meter 2)
—**MOVIE1** (movie 1)—**MOVIE2** (movie 2)
—**CLOCK** (entertainment clock)—**DVD** (DVD player)—**TV** (television)—**AV** (video input)
—**NAVI BG PICT** (navigation unit wall paper)



Notes

- In the following cases, the background display will not change:
 - When no disc is set in this unit.
 - When the AV (video input) is not set to **VIDEO** (refer to page 91).
 - When a Pioneer navigation unit is not connected to this unit.
- If car's parking brake is not engaged, **MOVIE1** and **MOVIE2** will be changed into still pictures. ◻

Using the PGM button

You can operate the preprogrammed functions for each source by using **PGM**.

- **Press PGM to turn pause on when selecting the following sources:**

- **DVD** – Built in DVD player
- **S-DVD** – DVD player/multi DVD player
- **M-CD** – Multi CD player
- To turn pause off, press **PGM** again.

- **Press PGM and hold to turn BSM on when selecting TUNER as the source.**

Press **PGM** and hold until the BSM turns on.

- To cancel the storage process, press **PGM** again.

- **Press PGM and hold to turn BSSM on when selecting TV as the source.**

Press **PGM** and hold until the BSSM turns on.

- To cancel the storage process, press **PGM** again.

- **Press PGM to select the desired channel select setting when selecting XM as the source.**

Press **PGM** repeatedly to switch between the following channel select settings:

CH NUMBER (channel number select setting)

—**CATEGORY** (channel category select setting)



Additional Information

Troubleshooting

Common

Symptom	Cause	Action (See)
Power doesn't turn on. The unit doesn't operate.	Leads and connectors are incorrectly connected.	Confirm once more that all connections are correct.
	The fuse is blown.	Rectify the reason for the fuse blowing, then replace the fuse. Be very sure to install the correct fuse with the same rate.
	Noise and other factors are causing the built-in microprocessor to operate incorrectly.	Press RESET . (Page 12)
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. (Page 18)
	The remote control code is incorrect.	Make sure the remote control selection switch setting and code type setting are the same. (Page 86)
	Battery power is low.	Load new battery. (Page 13)
	Some operations are prohibited with certain discs.	Check using another disc.
Playback is not possible.	The disc is dirty.	Clean disc. (Page 100)
	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.
No sounds are heard. The volume level will not rise.	Cables are not connected correctly.	Connect the cables correctly.
	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.
	The front, rear, left and right speakers are not properly adjusted in level balance.	Adjust the relative levels between the speakers correctly. (Page 75)
Sound is not heard over a specific speaker.	The speaker size is set to OFF .	Make the correct size setting for the speaker. (Page 77)
	The speaker level is set too low.	Increase the speaker level setting to get the balance right with the other speakers. (Page 78)
	The center speaker size is set to SMALL or LARGE whereas no center speaker is installed.	Set the center speaker size to OFF . (Page 77)
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.	Connect a parking brake cord, and apply the parking brake.

Additional Information

Symptom	Cause	Action (See)
The icon  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.	This operation is not possible.
The picture stops (pauses) and the unit cannot be operated.	Reading of data has become impossible during playback.	After pressing  once, start playback once more.
There's no sound. Volume level is low.	The volume level is low.	Adjust the volume level.
	The attenuator is on.	Turn the attenuator off.
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. (Page 85)
When the ignition switch is turned ON (or turned to ACC), the motor sounds.	This unit confirms whether a disc is loaded or not.	This is a normal operation.
Nothing is displayed. The touch panel keys cannot use.	The back up camera is not connected. BACK UP CAMERA is incorrect setting.	Connect a back up camera. Press MENU on the head unit to return to the source display and then select the correct setting for BACK UP CAMERA . (Page 91)

Problems during DVD playback

Symptom	Cause	Action (See)
Playback is not possible.	The loaded disc has a different region number from this unit.	Replace the disc with one featuring the same region number as this unit. (Page 8, Page 107)
A parental lock message is displayed and playback is not possible.	Parental lock is on.	Turn parental lock off or change the level. (Page 85)
Parental lock cannot be canceled.	The code number is incorrect.	Input the correct code number. (Page 85)
	You have forgotten your code number.	Press CLEAR 10 times to cancel the code number. (Page 86)
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 items 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 items indicated in the disc menu.	Switch using the disc menu.
Playback is not with the audio language and subtitle language settings selected in DVD SETUP MENU .	The DVD playing does not feature dialog or subtitles in the language selected in DVD SETUP MENU .	Switching to a selected language is not possible if the language selected in DVD SETUP MENU is not recorded on the disc.

Additional Information

Symptom	Cause	Action (See)
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 play back.	The disc features a signal to prohibit copying. (Some discs may have this.)	Since this unit 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 unit is malfunctioning.

Problems during Video CD playback

Symptom	Cause	Action (See)
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 turned off.	Turn PBC on. (Page 44, Page 48)
Repeat play and track/time search are not possible.	PBC is turned on.	Turn PBC off. (Page 44, Page 48)



Error messages

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	Cause	Action (See)
ERROR-02	Dirty disc	Clean disc.
	Scratched disc	Replace disc.
ERROR-05	Electrical or mechanical	Press RESET .
DIFFERENT REGION DISC (REGION ERR)	The disc does not have the same region number as this unit	Replace the DVD video with one bearing the correct region number.
NON PLAYABLE DISC (NON-PLAY)	This type of disc cannot be played by this unit	Replace the disc with one this unit can play.
	The disc is loaded upside down	Check that the disc is loaded correctly.
THERMAL PROTECTION IN MOTION (TEMP)	The temperature of this unit is out side of the normal operating range	Wait until the unit's temperature returns to within normal operating limits.



Additional Information

Understanding auto TA and EQ error messages

When correct measurement of car interior acoustic characteristics is not possible using the auto TA and EQ, an error message may appear on the display. If an error message appears on the display refer to the table below to see what the problem is and the suggested method of correcting the problem. After checking, try again.

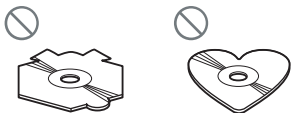
Message	Cause	Action
Error check MIC	Microphone is not connected.	Plug the supplied microphone securely into the jack.
Error check front SP. Error check FL SP. Error check FR SP. Error check center SP. Error check RL SP. Error check RR SP. Error check subwoofer	The microphone cannot pick up the measuring tone of any speaker.	<ul style="list-style-type: none"> • Confirm that the speakers are connected correctly. • Correct the input level setting of the power amp connected to the speakers. • Set the microphone correctly.
Error check noise	The surrounding noise level is too high.	<ul style="list-style-type: none"> • Stop your car in a place that is as quiet as possible, and switch off the engine, air conditioner or heater. • Set the microphone correctly.



Additional Information

DVD player and care

- Use only normal, round discs. If you insert irregular, non round, shaped discs they may jam in the DVD player or not play properly.



- Check all discs for cracks, scratches or warped discs before playing. Discs that have cracks, scratches or are warped may not play properly. Do not use such discs.
- Avoid touching the recorded (non printed side) surface when handling the disc.
- Store discs in their cases when not in use.
- Keep discs out of direct sunlight and do not expose the discs to high temperatures.
- Do not attach labels, write on or apply chemicals to the surface of the discs.
- To clean dirt from a disc, wipe the disc with a soft cloth outward from the center of the disc.



- If the heater is used in cold weather, moisture may form on components inside the DVD player. Condensation may cause the DVD player to not operate properly. If you think that condensation is a problem turn off the DVD player for an hour or so to allow the DVD player to dry out and wipe any damp discs with a soft cloth to remove the moisture.
- Road shocks may interrupt disc playback. ▣


DVD discs

- With some DVD video discs, it may not be possible to use certain functions.
- It may not be possible to play back some DVD video discs.
- When DVD R/DVD RW discs are used, playback is possible only for discs which have been finalized.
- When DVD R/DVD RW discs are used, playback is possible only for discs which have been recorded with the Video format (video mode). It is not possible to play back DVD RW discs which have been recorded with the Video Recording format (VR mode).
- It may not be possible to play back DVD R/DVD RW discs which have been recorded with the Video format (video mode), because of disc characteristics, scratches or dirt on the disc, or dirt, condensation, etc. on the lens of this unit.
- It is not possible to play back DVD ROM/DVD RAM discs.
- Playback of discs recorded on a personal computer may not be possible depending on the application settings and the environment. Please record with the correct format. (For details, contact the manufacturer of the application.) ▣

CD-R/CD-RW discs

- When CD R/CD RW discs are used, playback is possible only for discs which have been finalized.
- It may not be possible to play back CD R/CD RW discs recorded on a music CD recorder or a personal computer because of disc characteristics, scratches or dirt on the disc, or dirt, condensation, etc. on the lens of this unit.

Additional Information

- Playback of discs recorded on a personal computer may not be possible depending on the application settings and the environment. Please record with the correct format. (For details, contact the manufacturer of the application.)
- Playback of CD R/CD RW discs may become impossible in case of direct exposure to sunlight, high temperatures, or the storage conditions in the car.
- Titles and other text information recorded on a CD R/CD RW disc may not be displayed by this unit (in the case of audio data (CD DA)).
- This unit conforms to the track skip function of the CD R/CD RW disc. The tracks containing the track skip information are skipped automatically (in case of audio data (CD DA)).
- If you insert a CD RW disc into this unit, time to playback will be longer than when you insert a conventional CD or CD R disc.
- Read the precautions with CD R/CD RW discs before using them. 
- The max. number of characters which can be displayed for a folder name is 32 characters.
- In case of files recorded according to the Romeo and Joliet file system, only the first 32 characters can be displayed.
- When playing discs with MP3 files and audio data (CD DA) such as CD EXTRA and MIXED MODE CDs, both types can be played only by switching mode between MP3 and CD DA.
- The folder selection sequence for playback and other operations becomes the writing sequence used by the writing software. For this reason, the expected sequence at the time of playback may not coincide with the actual playback sequence. However, there also is some writing software which permits setting of the playback order.
- Files are compatible with the ID3 Tag Ver. 1.0 and Ver. 1.1 formats for display of album (disc title), track (track title) and artist (track artist).
- Only when MP3 files of 32, 44.1 and 48 kHz frequencies are played back, the emphasis function is valid. (16, 22.05, 24, 32, 44.1, 48 kHz sampling frequencies can be played back.)
- There is no m3u playlist compatibility.
- There is no compatibility with the MP3i (MP3 interactive) or mp3 PRO format.
- The sound quality of MP3 files generally becomes better with increasing bit rate. This unit can play recordings with bit rates from 8 kbps to 320 kbps, but in order to be able to enjoy a certain sound quality, it is recommended to use only discs recorded with a bit rate of at least 128 kbps.

MP3 files

- MP3 is short for MPEG Audio Layer 3 and refers to an audio compression technology standard.
- This unit allows playback of MP3 files on CD ROM, CD R and CD RW discs. Disc recordings compatible with level 1 and level 2 of ISO9660 and with the Romeo and Joliet file system can be played back.
- It is possible to play back multi session compatible recorded discs.
- MP3 files are not compatible with packet write data transfer.
- The max. number of characters which can be displayed for a file name, including the extension (.mp3), is 32 characters from the first character.



Important

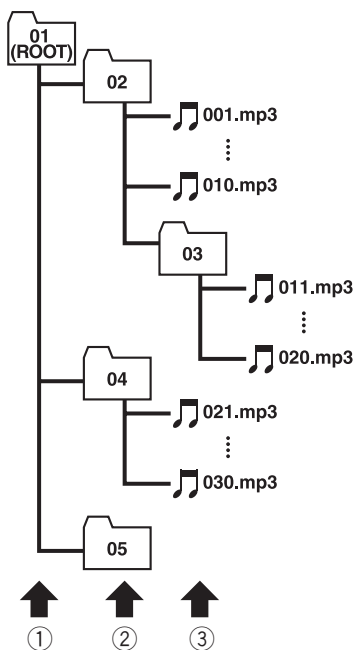
- When naming an MP3 file, add the corresponding filename extension (.mp3).

Additional Information

- This unit plays back files with the filename extension (.mp3) as an MP3 file. To prevent noise and malfunctions, do not use this extension for files other than MP3 files.

About folders and MP3 files

- An outline of a CD ROM with MP3 files on it is shown below. Subfolders are shown as folders in the folder currently selected.



① First level

② Second level

③ Third level



Notes

- This unit assigns folder numbers. The user can not assign folder numbers.

- It is not possible to check folders that do not include MP3 files. (These folders will be skipped without displaying the folder number.)
- MP3 files in up to 8 tiers of folders can be played back. However, there is a delay in the start of playback on discs with numerous tiers. For this reason we recommend creating discs with no more than 2 tiers.
- It is possible to play back up to 253 items from folder on one disc.

Using the display correctly



CAUTION

- If moisture or foreign matter should get inside this unit, turn off the power immediately and consult your dealer or the nearest authorized PIONEER Service Station. Using this unit 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 this unit in this condition may result in failure of the system.
- Do not disassemble or modify this unit, 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 be come very hot resulting in possible damage to the LCD screen. When not using this unit, close the display and avoid exposing it to direct sunlight as much as possible.

Additional Information

- The display should be used within the temperature ranges shown below.
Operating temperature range: -10 to +50 °C
Storage temperature range: -20 to +80 °C
At temperatures higher or lower than the operating temperature range the display may not operate normally.
- The LCD screen of this unit 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 open/close the display by hand. Applying strong force to the display may damage it.
- Do not push the LCD screen with much force as this may scratch 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.

Liquid crystal display (LCD) screen

- If the display is near the vent of an air conditioner when it is opened, 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 the supplied cloth.
- When wiping the screen, take care not to scratch the surface. Do not use harsh or abrasive chemical cleaners.

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 PIO NEER Service Station. ▣

Additional Information

Language code chart for DVD

Language (code), input code	Language (code), input code	Language (code), input code
Japanese (ja), 1001	Guarani (gn), 0714	Pashto, Pushto (ps), 1619
English (en), 0514	Gujarati (gu), 0721	Quechua (qu), 1721
French (fr), 0618	Hausa (ha), 0801	Rhaeto Romance (rm), 1813
Spanish (es), 0519	Hindi (hi), 0809	Kirundi (rn), 1814
German (de), 0405	Croatian (hr), 0818	Romanian (ro), 1815
Italian (it), 0920	Hungarian (hu), 0821	Kinyarwanda (rw), 1823
Chinese (zh), 2608	Armenian (hy), 0825	Sanskrit (sa), 1901
Dutch (nl), 1412	Interlingua (ia), 0901	Sindhi (sd), 1904
Portuguese (pt), 1620	Interlingue (ie), 0905	Sangho (sg), 1907
Swedish (sv), 1922	Inupiak (ik), 0911	Serbo Croatian (sh), 1908
Russian (ru), 1821	Indonesian (in), 0914	Sinhalese (si), 1909
Korean (ko), 1115	Icelandic (is), 0919	Slovak (sk), 1911
Greek (el), 0512	Hebrew (iw), 0923	Slovenian (sl), 1912
Afar (aa), 0101	Yiddish (ji), 1009	Samoan (sm), 1913
Abkhazian (ab), 0102	Javanese (jw), 1023	Shona (sn), 1914
Afrikaans (af), 0106	Georgian (ka), 1101	Somali (so), 1915
Amharic (am), 0113	Kazakh (kk), 1111	Albanian (sq), 1917
Arabic (ar), 0118	Greenlandic (kl), 1112	Serbian (sr), 1918
Assamese (as), 0119	Cambodian (km), 1113	Siswati (ss), 1919
Aymara (ay), 0125	Kannada (kn), 1114	Sesotho (st), 1920
Azerbaijani (az), 0126	Kashmiri (ks), 1119	Sundanese (su), 1921
Bashkir (ba), 0201	Kurdish (ku), 1121	Swahili (sw), 1923
Byelorussian (be), 0205	Kirghiz (ky), 1125	Tamil (ta), 2001
Bulgarian (bg), 0207	Latin (la), 1201	Telugu (te), 2005
Bihari (bh), 0208	Lingala (ln), 1214	Tajik (tg), 2007
Bislama (bi), 0209	Laothian (lo), 1215	Thai (th), 2008
Bengali (bn), 0214	Lithuanian (lt), 1220	Tigrinya (ti), 2009
Tibetan (bo), 0215	Latvian (lv), 1222	Turkmen (tk), 2011
Breton (br), 0218	Malagasy (mg), 1307	Tagalog (tl), 2012
Catalan (ca), 0301	Maori (mi), 1309	Setswana (tn), 2014
Corsican (co), 0315	Macedonian (mk), 1311	Tonga (to), 2015
Czech (cs), 0319	Malayalam (ml), 1312	Turkish (tr), 2018
Welsh (cy), 0325	Mongolian (mn), 1314	Tsonga (ts), 2019
Danish (da), 0401	Moldavian (mo), 1315	Tatar (tt), 2020
Bhutani (dz), 0426	Marathi (mr), 1318	Twi (tw), 2023
Esperanto (eo), 0515	Malay (ms), 1319	Ukrainian (uk), 2111
Estonian (et), 0520	Maltese (mt), 1320	Urdu (ur), 2118
Basque (eu), 0521	Burmese (my), 1325	Uzbek (uz), 2126
Persian (fa), 0601	Nauru (na), 1401	Vietnamese (vi), 2209
Finnish (fi), 0609	Nepali (ne), 1405	Volapük (vo), 2215
Fiji (fj), 0610	Norwegian (no), 1415	Wolof (wo), 2315
Faroese (fo), 0615	Occitan (oc), 1503	Xhosa (xh), 2408
Frisian (fy), 0625	Oromo (om), 1513	Yoruba (yo), 2515
Irish (ga), 0701	Oriya (or), 1518	Zulu (zu), 2621
Scots Gaelic (gd), 0704	Panjabi (pa), 1601	
Galician (gl), 0712	Polish (pl), 1612	



Additional Information

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.

Bit rate

This expresses data volume per second, or bps units (bits per second). The higher the rate, the more information is available to reproduce the sound. Using the same encoding method (such as MP3), the higher the rate, the better the sound.

Bonus group

An 'extra' group on some DVD audio discs that requires a key number to access.

Browsable pictures

A feature of some DVD audio discs in which you can browse still pictures recorded on the disc while the audio is played back.

Chapter

DVD titles are in turn divided into chapters which are numbered in the same way as the chapters of a book. With DVD video discs 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 is the same as the Dolby Digital surround sound system used in theaters.

Dolby Pro Logic II

Dolby Pro Logic II can create five full band width output channels from two channel sources. This new technology enables a discrete 5 channel playback with 2 front channels, 1 center channel, and 2 rear channels. A

music mode is also available for 2 channel sources in addition to the movie mode.

DTS

This stands for Digital Theater Systems. DTS is a surround system delivering multi channel audio from up to 6 independent channels.

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.

Group

A collection of tracks on a DVD audio disc. Equivalent to a DVD video title.

ID3 tag

This is a method of embedding track related information in a MP3 file. This embedded information can include the track title, the artist's name, the album title, the music genre, the year of production, comments and other data. The contents can be freely edited using software with ID3 Tag editing functions. Although the tags are restricted to the number of characters, the information can be viewed when the track is played back.

ISO9660 format

This is the international standard for the format logic of CD ROM folders and files. For the ISO9660 format, there are regulations for the following two levels.

Level 1:

The file name is in 8.3 format (the name consists of up to 8 characters, half byte English capital letters and half byte numerals and the " " sign, with a file extension of three characters.)

Level 2:

Additional Information

The file name can have up to 31 characters (including the separation mark “.” and a file extension). Each folder contains less than 8 hierarchies.

Extended formats

Joliet:

File names can have up to 64 characters.

Romeo:

File names can have up to 128 characters.

Linear PCM (LPCM)/Pulse code modulation

This stands for linear pulse code modulation, which is the signal recording system used for music CDs and DVDs. Generally, DVDs are recorded with higher sampling frequency and bit rate than CDs. Therefore, DVDs can provide higher sound quality.

m3u

Playlists created using the “WINAMP” software have a playlist file extension (.m3u).

MP3

MP3 is short for MPEG Audio Layer 3. It is an audio compression standard set by a working group (MPEG) of the ISO (International Standards Organization). MP3 is able to compress audio data to about 1/10th the level of a conventional disc.

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-session

Multi session is a recording method that allows additional data to be recorded later. When recording data on a CD ROM, CD R or CD RW, etc., all data from beginning to end is treated as a single unit or session. Multi session is a method of recording more than 2 sessions in one disc.

Multi-subtitle

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

Packed PCM

A lossless compression system that enables more PCM audio to be stored on a DVD audio disc than would otherwise be possible.

Packet write

This is a general term for a method of writing on CD R, etc. at the time required for a file, just as is done with files on floppy or hard discs.

Parental lock

Some DVD video discs with violent or adult or oriented scenes feature parental lock which prevents children from viewing such scenes. With this kind of disc, if you set the unit's parental lock level, playback of scenes inappropriate for children will be disabled, 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

Additional Information

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 on the bottom of this unit.

Slideshow

A feature of some DVD discs in which still pictures recorded on the disc cycle automatically while the audio is played back.

Title

DVD video discs have 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.

VBR

VBR is short for variable bit rate. Generally speaking CBR (constant bit rate) is more widely used. But to flexibly adjust the bit rate according to the needs of audio compression, it is possible to achieve compression priorities sound quality.

Additional Information

Specifications

General

Power source	14.4 V DC (10.8 – 15.1 V at lowable)
Grounding system	Negative type
Head unit:	
Max. current consumption	10.0 A
Dimensions (W × H × D):	
DIN	
Chassis	178 × 50 × 160 mm (7 × 2 × 6 1/4 in.)
Nose	188 × 58 × 36 mm (7 3/8 × 2 1/4 × 1 3/8 in.)
D	
Chassis	178 × 50 × 165 mm (7 × 2 × 6 1/2 in.)
Nose	170 × 46 × 31 mm (6 3/4 × 1 3/4 × 1 1/4 in.)
Weight	2.3 kg (5.1 lbs)
Hideaway unit:	
Max. current consumption	3.5 A
Dimensions (W × H × D)	
.....	279 × 28 × 171 mm (11 × 1 1/8 × 6 3/4 in.)
Weight	1.1 kg (2.4 lbs)

Display

Screen size/aspect ratio	7 inch wide/16:9 (effective display area: 154 × 87 mm)
Pixels	336,960 (1,440 × 234)
Type	TFT active matrix, transmissive type
Color system	NTSC compatible
Operating temperature range	-10 – +50 °C
Storage temperature range	-20 – +80 °C
Angle adjustment	50 – 110° (initial settings: 110°)

Audio

Continuous power output is 22 W per channel minimum into 4 ohms, both channels driven 50 to 15,000 Hz with no more than 5% THD.	
Maximum power output	50 W × 5
Load impedance	4 Ω (4 – 8 Ω allowable)

Preout max output level/output impedance	5.0 V/100 Ω
Decoder	Linear PCM/Dolby Digital/Dolby Pro Logic II/DTS
Subwoofer:	
Crossover frequency	63/80/100/125/160/200 Hz
Level	±10dB (1 dB/step)
Speaker setting:	
Time alignment	0 – 200 inch (1 inch/step)
Level	±10dB
Equalizer:	
Band	3 band
Frequency	40/50/63/80/100/125/160/200/250/315/400/500/630/800/1k/1.25k/1.6k/2k/2.5k/3.15k/4k/5k/6.3k/8k/10k/12.5k Hz
Gain	±12dB (2 dB/step)
Q Factor	1.2/3.6
Crossover frequency	63/80/100/125/160/200 Hz

DVD Player

System	DVD audio, DVD video, Video CD, CD, dtsCD, MP3 system
Usable discs	DVD audio, DVD video, Video CD, CD, dtsCD
Region number	1
Signal format:	
Sampling frequency	16/22.05/24/44.1/48/88.2/96/176.4/192 kHz
Number of quantization bits	16/20/24; linear
Frequency response	5 – 96,000 Hz (with DVD, at sampling frequency 192 kHz)
Signal to noise ratio	97 dB (1 kHz) (IHF A network) (CD: 96 dB (1 kHz) (IHF A network))
Dynamic range	95 dB (1 kHz) (CD: 94 dB (1 kHz))
Distortion	0.008 % (1 kHz)
Output level:	
Video	1.0 Vp p/75 Ω (±0.2 V)
Audio	1.1 V (1 kHz, 0 dB)
Number of channels	2 (stereo), Digital 6 ch
MP3 decoding format	MPEG 1 & 2 Audio Layer 3

Additional Information

TV tuner

Reception channel/TV system	US/M: VHF 2 – 13 ch, UHF 14 – 69 ch
Color system	NTSC compatible
Usable sensitivity	12 dB μ
Video S/N	Over 37 dB (59 dB μ RF input, White Peak 100%)
Video S/N 30 dB usable sensitivity	44 dB μ
Antenna input	4 ch Diversity (\varnothing 3.5 mm Mini plug type)
Antenna cable	6 m (19 ft. 8 in.)

FM tuner

Frequency range	87.9 – 107.9 MHz
Usable sensitivity	8 dBf (0.7 μ V/75 Ω , mono, S/N: 30 dB)
50 dB quieting sensitivity	10 dBf (0.9 μ V/75 Ω , mono)
Signal to noise ratio	75 dB (IHF A network)
Distortion	0.3 % (at 65 dBf, 1 kHz, stereo) 0.1 % (at 65 dBf, 1 kHz, mono)
Frequency response	30 – 15,000 Hz (\pm 3 dB)
Stereo separation	45 dB (at 65 dBf, 1 kHz)
Selectivity	80 dB (\pm 200 kHz)
Three signal intermodulation (desired signal level)	30 dBf (two undesired sig nal level: 100 dBf)

AM tuner

Frequency range	530 – 1,710 kHz (10 kHz)
Usable sensitivity	18 μ V (S/N: 20 dB)
Signal to noise ratio	65 dB (IHF A network)



Note

Specifications and the design are subject to possible modifications without notice due to improvements. ■

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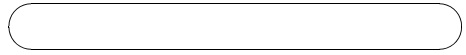
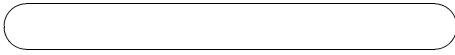
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PIONEER CORPORATION

4-1, MEGURO 1-CHOME, MEGURO-KU, TOKYO 153-8654, JAPAN

PIONEER ELECTRONICS (USA) INC.

P.O. Box 1540, Long Beach, California 90801-1540, U.S.A.
TEL: (800) 421-1404

PIONEER EUROPE NV

Haven 1087, Keetberglaan 1, B-9120 Melsele, Belgium
TEL: (0) 3/570.05.11

PIONEER ELECTRONICS ASIACENTRE PTE. LTD.

253 Alexandra Road, #04-01, Singapore 159936
TEL: 65-6472-1111

PIONEER ELECTRONICS AUSTRALIA PTY. LTD.

178-184 Boundary Road, Braeside, Victoria 3195, Australia
TEL: (03) 9586-6300

PIONEER ELECTRONICS OF CANADA, INC.

300 Allstate Parkway, Markham, Ontario L3R OP2, Canada
TEL: (905) 479-4411

PIONEER ELECTRONICS DE MEXICO, S.A. de C.V.

Bvd.Manuel Avila Camacho 138 10 piso
Col.Lomas de Chapultepec, Mexico, D.F. 11000
TEL: 55-9178-4270

先鋒股份有限公司

總公司：台北市中山北路二段44號13樓
電話：(02) 2521-3588

先鋒電子（中國）有限公司

香港辦事處：香港銅鑼灣告士打道280號世界貿易中心
17樓 1704-06室
電話：(0852) 2848-6488

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