

Pioneer

DVD RECEIVER

DVH-P4150UB

SUPER  **TUNER III D**

Operation Manual

English

Thank you for purchasing this PIONEER product.

Please read through this manual before using the product for the first time, to ensure proper use. *After reading, please keep the manual in a safe and accessible place for future reference.*



Be sure to read this

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Before You Start

To ensure safe driving

WARNING

- To avoid the risk of accident and the potential violation of applicable laws, the front DVD or TV (sold separately) feature should never be used while the vehicle is being driven. Also, rear displays should not be in a location where they are visibly distracting 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 and this unit's DVD features should not be used.
- **NEVER** install the display in a location that enables the driver to watch the DVD or Video CD while driving.

When you park your car in a safe place and apply the parking brake, the picture appears on the screen. 


About this unit

CAUTION


- Do not allow this unit to come into contact with liquids. Electrical shock could result. Also, damage to this unit, smoke, and overheating could result from contact with liquids.
- "CLASS 1 LASER PRODUCT"
This product contains a laser diode of higher class than 1. To ensure continued safety, do not remove any covers or attempt to gain access to the inside of the product. Refer all servicing to qualified personnel.
- Keep this manual handy as a reference for operating procedures and precautions.
- Always keep the volume low enough so that you can hear sounds from outside the vehicle.
- Protect this unit from moisture.
- If the battery is disconnected or discharged, the preset memory will be erased and must be reprogrammed.

- Should this unit fail to operate properly, please contact your dealer or nearest authorized PIONEER Service Station.

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 and this manual (refer to *Specifications* on page 82). 


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 **WARNINGs** and **CAUTIONs** in this manual. 

Visit our website

Visit us at the following site:

<http://pioneer.jp/group/index-e.html>

- We offer the latest information about Pioneer Corporation on our website. 

Features

DVD-R/RW compatibility

It is possible to play back DVD-R/RW discs recorded with the video format and Video Recording format. (Refer to *DVD-R/DVD-RW discs* on page 70.)

Before You Start

Video CDs featuring PBC compatibility

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

CD playback

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

MP3 file playback

You can play back MP3 files recorded on CD-R/RW/ROM (ISO9660 Level 1/Level 2 standard), DVD-R/RW/ROM (ISO9660 Level 1/Level 2 standard, UDF 1.02) and USB storage device (FAT 16, FAT 32).

WMA file playback

You can play back WMA files recorded on CD-R/RW/ROM (ISO9660 Level 1/Level 2 standard), DVD-R/RW/ROM (ISO9660 Level 1/Level 2 standard, UDF 1.02) and USB storage device (FAT 16, FAT 32).

AAC file playback

You can play back AAC files recorded on CD-R/RW/ROM (ISO9660 Level 1/Level 2 standard), DVD-R/RW/ROM (ISO9660 Level 1/Level 2 standard, UDF 1.02) and USB storage device (FAT 16, FAT 32).

DivX® video compatibility

Refer to *DivX compatibility* on page 75.

JPEG picture file playback

You can play back JPEG picture files recorded on CD-R/RW/ROM and USB storage device.

Dolby Digital/DTS compatibility

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

Portable audio player compatibility

- Make inquiries to the manufacturer about your USB portable audio player/USB memory.

This unit corresponds to the following.

- USB MSC (Mass Storage Class) compliant portable audio player and memory

- WMA, MP3 and AAC file playback

- JPEG file playback

iPod compatibility

This unit can control, listen to songs and view videos on an iPod.

For details about the supported iPod, refer to *iPod compatibility* on page 74.

Hands-free phoning

Using Bluetooth adapter (e.g. CD-BTB200), this unit realizes effortless hands-free phoning with Bluetooth wireless technology.


Bluetooth audio player compatibility

Using Bluetooth adapter (e.g. CD-BTB200), you can control Bluetooth audio player featuring Bluetooth wireless technology.


About DivX



DivX is a compressed digital video format created by the DivX® video codec from DivX, Inc. This unit can play DivX video files recorded on CD-R/RW/ROM and DVD-R/RW/ROM discs. Keeping the same terminology as DVD video, individual DivX video files are called "Titles". When naming files/titles on a CD-R/RW or a DVD-R/RW disc prior to burning, keep in mind that by default they will be played in alphabetical order.

Official DivX® Certified product

Plays all versions of DivX® video (including DivX® 6) with standard playback of DivX® media files 

When an operation is prohibited

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

- The icon  may not appear with certain discs. 

Before You Start

Protecting your unit from theft

The front panel can be detached to deter theft.

Important

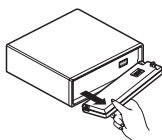
- Before detaching and opening/closing, be sure to remove the AUX/USB cable and USB device from the front panel. If they are not removed, this unit, any connected devices or the vehicle interior may be damaged.
- Handle gently when removing or attaching the front panel.
- Avoid subjecting the front panel to excessive shock.
- Keep the front panel out of direct sunlight and high temperatures.

Removing the front panel

1 Press  to open the front panel.

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

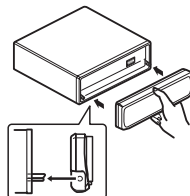
Take care not to grip it too tightly or to drop the front panel and protect it from contact with water or other fluids to prevent permanent damage.



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

Attaching the front panel

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

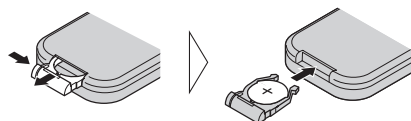


Use and care of the remote control

Installing the battery

Slide the tray on the back of the remote control out and insert the battery with the plus (+) and minus (-) poles aligned properly.

- 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, consult a doctor immediately.

CAUTION

- Use one **CR2025 (3 V)** lithium battery.
- Remove the battery if the remote control is not used for a month or longer.
- There is a danger of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent type.
- Do not handle the battery with metallic tools.
- Do not store the battery with metallic objects.

Before You Start

- If the battery leaks, wipe the remote control completely clean and install a new battery.
- When disposing of used batteries, comply with governmental regulations or environmental public institutions' rules that apply in your country/area.
- Always check carefully that you are loading the battery with its plus (+) and minus (-) poles facing the proper directions.


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.



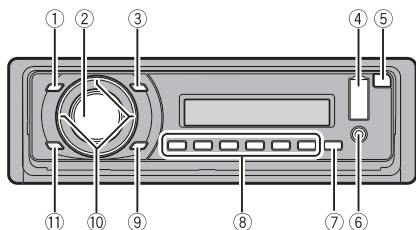
Important

- 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. 

Operating this unit

What's what

Head unit



- ① **SRC/OFF button**
This unit is turned on by selecting a source. Press to cycle through all the available sources.
- ② **MULTI-CONTROL**
Turn to increase or decrease the volume. Press to select a menu on the DVD menu. Also used for controlling functions.
- ③ **LIST/≡ button**
Press to display the track title list, folder list or file list depending on the source. Press and hold to turn the link play on during iPod playback.
- This button is not effective when tuner is selected as a source.
- ④ **USB port**
Use to connect a USB audio player/USB memory and iPod.
- When connecting, open up the USB connector lid.
 - Use a USB cable to connect the USB audio player/USB memory to the USB port. Since the USB audio player/USB memory is projected forward from the unit, it is dangerous to connect directly. Pioneer CD-U50E USB cable is also available. For details, consult your dealer.
- ⑤ **⏏ button**
Press to open the front panel.
- ⑥ **AUX input jack (3.5 mm stereo jack)**
Use to connect an auxiliary device.
- You can connect an auxiliary video device and an iPod with video compatibility. For details, refer to *iPod* on page 31 and *Switching the auxiliary setting* on page 44.
- ⑦ **⏪ button**
Press to change to the clock display. Press and hold to turn the display indication and button illumination off or on.
- ⑧ **1/S.Rtrv/DVD MENU to 6/↔/ANGLE buttons**
Press for preset tuning. Also used for controlling functions.
- 1/S.Rtrv/DVD MENU**
 - Press to control **S.RTRV** (advanced sound retriever).
 - Press to return to the top menu during DVD playback.
 - Press and hold to switch the DVD menu on or off during DVD playback.
 - 2/PAUSE**
 - Press to control **PAUSE** (pause).
 - 3/BOOKMARK**
 - Press to control the resume playback (bookmark) function during DVD playback.
 - 4/iPod/AUDIO**
 - Press to control **CTRL** (control mode) during iPod playback.
 - Press to change the audio language/audio system during DVD playback.
 - 5/⏮/SUB TITLE**
 - Press to control **RANDOM** (random).
 - Press to control **SHUFFLEALL** (shuffle all) during iPod playback.
 - Press to change the subtitle language during DVD playback.
 - 6/↔/ANGLE**
 - Press to control **REPEAT** (repeat).
 - Press to change the viewing angle during DVD playback.
- ⑨ **DISP/BACK/SCRL button**
Press to select different displays.

Operating this unit

Press and hold to scroll through the text information.

Press to return to the previous display when operating the menu.

Press and hold to return to the main menu when operating the menu.



Note

The function of **DISP/BACK/SCRL** is different depending on the setting of the display connection (refer to *Setting the display connection on or off* on page 46).

⑩ ▲/▼/◀/▶ buttons

Press to perform manual seek tuning, fast forward, reverse and title/folder/chapter/track/file search controls.

Press to select a menu on the DVD menu. Also used for controlling functions.

- When operating menus
 - Pressing ▲ is the same function as turning **MULTI-CONTROL** right.
 - Pressing ▼ is the same function as turning **MULTI-CONTROL** left.
 - Pressing ◀ is the same function as pressing **DISP/BACK/SCRL**.
 - Pressing and holding ◀ is the same function as pressing and holding **DISP/BACK/SCRL**.
 - Pressing ▶ is the same function as pressing **MULTI-CONTROL**.
- When operating lists
 - Pressing ▲ is the same function as turning **MULTI-CONTROL** left.
 - Pressing ▼ is the same function as turning **MULTI-CONTROL** right.
 - Pressing ◀ is the same function as pressing **DISP/BACK/SCRL**.
 - Pressing and holding ◀ is the same function as pressing and holding **DISP/BACK/SCRL**.
 - Pressing ▶ is the same function as pressing **MULTI-CONTROL**.
 - Pressing and holding ▶ is the same function as pressing and holding **MULTI-CONTROL**.

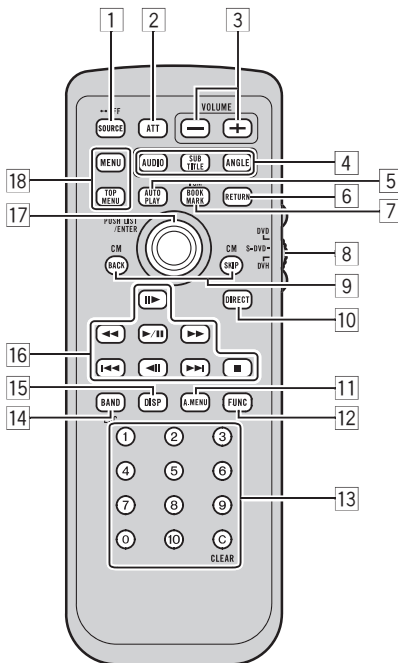
⑪ BAND/ESC button

Press to select among three FM bands and one AM band.

Press to return to the ordinary display when operating the menu.

Operating this unit

Remote control



	Button names	DVH mode	DVD and S-DVD mode
1	SOURCE button	Press to cycle through all the available sources. Press and hold to turn the source off.	
2	ATT button	Press to quickly lower the volume level by about 90%. Press once more to return to the original volume level.	
3	VOLUME buttons	Press to increase or decrease the volume.	
4	AUDIO button	Press to change the audio language/audio system during DVD playback.	
	SUBTITLE button	Press to change the subtitle language during DVD playback.	
	ANGLE button	Press to change the viewing angle during DVD playback.	
5	AUTO PLAY button	Press to turn the DVD auto-playback function on or off.	
6	RETURN button	Press to display the PBC (playback control) menu during PBC playback.	
7	BOOKMARK button	Press to operate the preprogrammed functions for each source. (Refer to <i>Using the PGM button</i> on page 49.)	Press to turn the bookmark function on or off. For details, refer to <i>Resume playback (Bookmark)</i> on page 20.
8	Remote control operation mode switch	Switch the operation mode between DVD , S-DVD and DVH modes. Normally, set to DVH . For details, refer to <i>Using the remote control operation mode switch</i> on the next page.	

Operating this unit

9	CM BACK/CM SKIP buttons	Press to skip progressively backward/forward through the video playing.	
10	DIRECT button	Press to select channels directly.	Not used.
11	A.MENU button	Press to select various sound quality controls.	
12	FUNC button	Press to select functions.	
13	0 to 10 buttons, CLEAR button	Press 0 to 9 to input numbers. Buttons 1 to 6 can operate the preset tuning for the tuner or disc changing for multi-CD players. Press CLEAR to clear the input numbers.	Press to select a menu item on a video CD featuring PBC (playback control).
14	BAND button	Press to select among three FM bands and one AM band and to cancel control modes of functions.	Press to switch between media file types. (Refer to <i>Switching the media file type</i> on page 18.)
15	DISP button	Press to turn the information display on or off when the video is displayed. Depending on the selected source, pressing this button can switch the display indication.	
16	PLAY/PAUSE (▶/⏸) button	Press to switch sequentially between playback and pause.	
	REVERSE (◀◀) button	Press to perform fast reverse.	
	FORWARD (▶▶) button	Press to perform fast forward.	
	PREVIOUS (◀◀) button	Press to return to the previous track (chapter).	
	NEXT (▶▶) button	Press to go to the next track (chapter).	
	STEP (⏪/◀◀) buttons	Press to move ahead one frame at a time during DVD/VideoCD playback. Press and hold for one second to activate slow playback. If a DVD-VR disc contains a still image, press ⏪ while displaying a still image to switch to the next image or video.	
	STOP (■) button	Not used.	Press to stop playback.
17	Move the thumb pad	Functions are the same as MULTI-CONTROL on the head unit. Move to operate fast forward, reverse and track search controls. Also used for controlling functions.	Move to select a menu on the DVD menu.
	Click the thumb pad	Click to display the track title list, folder list or file list depending on the source.	Click to select a menu on the DVD menu.
18	MENU button	Press to display the DVD menu during DVD playback.	
	TOP MENU button	Press to return to the top menu during DVD playback.	

Using the remote control operation mode switch

There are three remote control operation modes on the remote control. If you want to operate this unit by remote control, turn the mode switch to **DVH** mode. In this case, both

the head unit's buttons and the remote control can control this unit.

Operating this unit

DVH mode operation

When operating this unit by remote control, the mode is normally switched to **DVH**.

- The thumb pad on the remote control can perform the same operations as **MULTI-CONTROL** on the head unit.

DVD mode operation

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

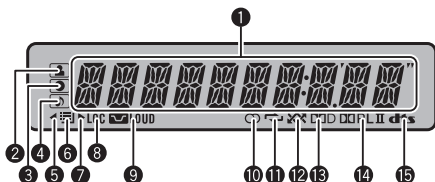
● When you want to operate the following functions, switch the mode to DVD:

- When operating the DVD menu by using the thumb pad. (Refer to *Operating the DVD menu* on page 18.)
- When operating the PBC menu by using **0** to **10**. (Refer to *PBC playback* on page 19.)
- When specifying title or track by using **0** to **10**. (Refer to *Specifying title* on page 20 and *Specifying track* on page 20.)
- When operating the DVD setup menu by using the thumb pad. (Refer to *Setting up the DVD player* on page 38.)

S-DVD mode operation

When using the remote control with this unit, there is no need to switch to **S-DVD** mode.

Display indication



① Main display section

Displays band, frequency, elapsed playback time and other settings.

- Tuner
Band and frequency are displayed.

- Built-in DVD player, USB, iPod, multi-CD player
Elapsed playback time and literal information are displayed.

② [artist] indicator

Appears when the disc (track) artist name is displayed on the main display section.
Appears when artist search refinement on the iPod browsing function is in use.

③ [disc] indicator

Appears when the disc (album) name is displayed on the main display section.
Appears when album search refinement on the iPod browsing function is in use.

④ [song] indicator

Appears when the track (song) name is displayed on the main display section.
Appears when playable file is displayed during viewing the file name list of disc and a USB storage device.
Appears when song search refinement on the iPod browsing function is in use.

⑤ ◀ indicator

Appears when an upper tier of folder or menu exists.

⑥ [list] indicator

Appears when operating list function.

⑦ ▶ indicator

Appears when a lower tier of folder or menu exists.

⑧ LOC indicator

Appears when local seek tuning is on.

⑨ [LOUD] LOUD (loudness) indicator

Appears when loudness is on.

⑩ [stereo] indicator

Appears when the selected frequency is being broadcast in stereo.

⑪ [repeat] indicator

Shows when track repeat is turned on.

Operating this unit

Also, shows when folder repeat is on.

12 (random) indicator

Shows when random play is on.

Appears when shuffle function is on while the iPod source is being selected.

13 (Dolby Digital) indicator

Appears when Dolby Digital audio is selected. (Activated only when DEQ-P7650/DEQ-P6600 is connected to this unit.)


14 (Dolby Pro Logic II) indicator

Appears when Dolby Pro Logic II is used. (Activated only when DEQ-P7650/DEQ-P6600 is connected to this unit.)

15 (DTS) indicator

Appears when DTS audio is selected. (Activated only when DEQ-P7650/DEQ-P6600 is connected to this unit.)

Note

When you set the display connection (refer to *Setting the display connection on or off* on page 46) to on, the indicators of 2 to 7 do not appear. 

Basic Operations

Power ON/OFF

Turning the unit on

- Press **SRC/OFF** to turn the unit on.

Turning the unit off

- Press **SRC/OFF** and hold until the unit turns off.

Selecting a source

- Press **SRC/OFF** repeatedly to switch between the following sources.

TUNER (tuner)—**DVD** (built-in DVD player)—**MULTI CD** (multi-CD player)—**USB** (USB storage device)/**USB-IPOD** (iPod connected using USB input)—**EXTERNAL** (external unit 1)—**EXTERNAL** (external unit 2)—**AUX1** (AUX 1)—**AUX2** (AUX 2)—**BLUETOOTH** (Bluetooth telephone/audio)


Notes

- In the following cases, the sound source will not change.
 - When no unit corresponding to the selected source is connected.
 - When there is no disc or magazine in the player.
 - When AUX (auxiliary input) is set to off (refer to page 44).
- When a USB storage device or iPod is not connected to the USB port of this unit, **NO DEVICE** is displayed.
- AUX1 is set to **AUDIO** by default. Set the AUX1 to **OFF** when not in use (refer to *Switching the auxiliary setting* on page 44).
- Listening to the radio while connecting a USB storage device or an iPod to this unit may generate noise. In this case disconnect the USB storage device or the iPod.
- Charging the portable audio player using car's DC power source while connecting it to AUX input may generate noise. In this case, stop charging.

Operating this unit

- External unit refers to a Pioneer product (such as ones available in the future) that, although incompatible as a source, enables control of basic functions with this unit. Two external units can be controlled with this unit. When two external units are connected, the external unit is automatically allocated to external unit 1 or external unit 2 by this unit.
- When this unit's blue/white lead is connected to the car's auto-antenna relay control terminal, the car's antenna extends when this unit's source is turned on. To retract the antenna, turn the source off. (When you connected a Pioneer multi-channel processor (DEQ-P7650/DEQ-P6600) to this unit, auto-antenna cannot be controlled.)

Adjusting the volume

- Turn **VOLUME** to adjust the sound level.
 - With the remote control, press **VOLUME** to increase or decrease the volume. 

Tuner

Basic Operations

- **Selecting a band**
Press **BAND/ESC**.
 - Band can be selected from among **FM1**, **FM2**, **FM3** or **AM**.
- **Manual tuning (step by step)**
Press ◀ or ▶.
- **Seeking tuning**
Press and hold ◀ or ▶, and then release.
 - You can cancel seek tuning by briefly pressing ◀ or ▶.
 - While pressing and holding ◀ or ▶, you can skip stations. Seek tuning starts as soon as you release ◀ or ▶.

Storing and recalling broadcast frequencies

If you press any of the preset tuning buttons **1/S.Rtrv/DVD MENU** to **6/↔/ANGLE** you can easily store up to six broadcast frequencies for later recall with the touch of a button.

- Six stations for each band can be stored in memory.
- **When you find a frequency that you want to store in memory, press one of preset tuning buttons 1/S.Rtrv/DVD MENU to 6/↔/ANGLE and hold until the preset number stops flashing.**
The number you have pressed will flash in the preset number indicator and then remain lit. The selected radio station frequency has been stored in memory.
The next time you press the same preset tuning button the radio station frequency is recalled from memory.
 - You can also recall radio station frequencies assigned to preset tuning numbers by pressing ▲ or ▼ during the frequency display.

Introduction to advanced operations

1 Press MULTI-CONTROL to display the main menu.

2 Use MULTI-CONTROL to select FUNCTION.

Turn to change the menu option. Press to select.

3 Turn MULTI-CONTROL to select the function.

BSM (best stations memory)—**LOCAL** (local seek tuning)



Notes

- You can also select the function by pressing **FUNCTION** on the remote control.
- To return to the previous display, press **DISP/BACK/SCRL**.
- To return to the main menu, press and hold **DISP/BACK/SCRL**.
- To return to the ordinary display, press **BAND/ESC**.
- If you do not operate functions within about 30 seconds, the display automatically returns to the ordinary display.

Storing the strongest broadcast frequencies

BSM (best stations memory) lets you automatically store the six strongest broadcast frequencies.

- Storing broadcast frequencies with BSM may replace broadcast frequencies you have saved using buttons **1/S.Rtrv/ DVD MENU** to **6/↔/ANGLE**.

1 Use MULTI-CONTROL to select BSM in the function menu.

Refer to *Introduction to advanced operations* on this page.

2 Press MULTI-CONTROL to turn BSM on.

The six strongest broadcast frequencies are stored in the order of their signal strength.

- To cancel, press **MULTI-CONTROL** again.

Tuning in strong signals

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

1 Use MULTI-CONTROL to select LOCAL in the function menu.

Refer to *Introduction to advanced operations* on this page.

2 Press MULTI-CONTROL to display the setting mode.

3 Turn MULTI-CONTROL to set the sensitivity.


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

AM: **OFF—LEVEL 1—LEVEL 2**

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

- You can also perform the same operation by pressing **▲** or **▼**.

4 Press MULTI-CONTROL to determine the selection.

- Even if the menu has been canceled before determination, operation is settled. 

Operating this unit

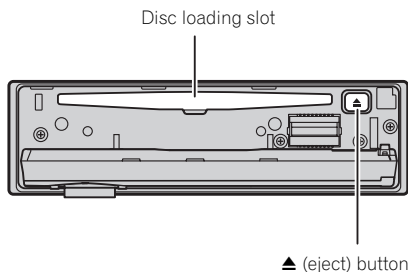
Built-in DVD player

Basic Operations

● Opening the front panel

Press **⏏**.

Disc loading slot appears.



■ When loading a disc, face the label side of a disc up.

■ To avoid a malfunction, make sure that no metal objects come into contact with the terminals when the front panel is open.

■ When the automatic playback function is on, this unit will cancel the DVD menu and automatically start playback from the first chapter of the first title. Refer to *Automatic playback of DVDs* on page 22.

■ If you are playing a DVD or Video CD, a menu may appear. Refer to *Operating the DVD menu* on the next page and *PBC playback* on page 19.

■ When loading a CD/CD-R/RW containing JPEG picture files, this unit automatically starts a slideshow from the first folder/picture on the disc. The player displays the pictures in each folder in alphabetical order.

● Ejecting a disc

Press **▲** (eject).

● Selecting a folder

Press **▲** or **▼**.

■ You cannot select a folder that does not have a compressed audio file, JPEG file or DivX file recorded in it.

● Selecting a chapter/track/file

Press **◀** or **▶**.

- You can also skip back or forward to another chapter/track/file by pressing **◀◀** or **▶▶**.
- During PBC playback, a menu may be displayed if you perform these operations.

● Fast forwarding or reversing

Press and hold **◀** or **▶**.

- When DVD, DivX disc or Video CD is playing, if you press and hold **◀** or **▶** for five seconds, the icon **◀◀** or **▶▶** is highlighted. When this happens, fast reverse/fast forward continues even if you release **◀** or **▶**. To resume playback at a desired point, press **▶/II**.
- When playing DVD video or Video CD, fast forward/fast reverse may not be possible at certain locations on some discs. If this happens, normal playback automatically resumes.

● Returning to root folder

Press and hold **BAND/ESC**.

- If folder 01 (ROOT) contains no files, playback commences with folder 02.

Notes







- The DVD player plays one, standard, 12-cm DVD (-R/-RW), CD (-R/-RW) at a time. Playing back an 8-cm disc is not possible with this unit.
- Read the precautions for the player and discs in the following section. Refer to *Handling guideline of discs and player* on page 70.
- A disc has already been inserted, press **SRC/OFF** to select the built-in DVD player.
- If bookmark function is on, DVD playback resumes from the selected point. For more details, refer to *Resume playback (Bookmark)* on page 20.
- If a disc contains a mixture of various media file types such as DivX and MP3, you can switch between media file types to play. Refer to *Switching the media file type* on the next page.
- There is sometimes a delay between starting up disc playback and the sound being issued. When being read, **FRMT READ** is displayed.

Operating this unit


- 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.
- Playback is carried out in order of file number. Folders are skipped if they contain no files. (If folder 01 (ROOT) contains no files, playback commences with folder 02.)
- If an error message is displayed, refer to *Error messages* on page 67.

Basic playback controls

The table below shows the basic controls for playing discs. The following chapters cover other playback features in more details.

Button	What it does
	Starts playback, pauses a disc that's playing or restarts a paused disc. Starts the slideshow, pauses the slideshow or restarts a paused disc.
	Stops playback.
	Press and hold to perform fast reverse.
	Press and hold to perform fast forward.
	Skips to the start of the current track, chapter or file, then to previous tracks/chapters/files. Displays the previous picture.
	Skips to the next track, chapter or file. Displays the next picture.

Notes

- You may find with some DVD or Video CD discs that some playback controls do not work in certain parts of the disc. This is not a malfunction.
- If the remote control is set to **DVH**,  does not operate.

Switching the media file type

When playing a disc containing a mixture of various media file types such as DivX and

MP3, you can switch between media file types to play.

- This unit allows playback of the following media file type recorded on discs.
 - Audio data (CD-DA)
 - Compressed audio files
 - DivX video files
 - JPEG files
- In case of DVD-R/RW/ROM, this unit does not allow playback of audio data (CD-DA) and JPEG file.

- **Press BAND/ESC to switch between media file types.**

Operating the DVD menu

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

- This function is available for DVD video.
- You can display the menu by pressing the **1/S.Rtrv/DVD MENU (MENU or TOP MENU** on the remote control) while a disc is playing. Pressing **1/S.Rtrv/DVD MENU (MENU)** again lets you start playback from the location selected from the menu. For details, refer to the instructions provided with the disc.
- The way to display the menu differs depending on the disc.

1 Press ▲/▼/◀/▶ to select the desired menu option.

2 Press MULTI-CONTROL.

Playback starts from the selected menu item.

Note

You can perform the same operation by using thumb pad on the remote control.

Operating this unit

PBC playback

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

- This function is available for Video CD.
- **When PBC menu is displayed, press 0 to 9 corresponding to a menu number to start playback.**
 - When the menu is two or more pages long, press ◀◀ or ▶▶ to switch between displays.

Notes

- You can display the menu by pressing **RETURN** during PBC playback. For details, refer to the instructions provided with the disc.
- PBC playback of Video CD cannot be canceled.
- During playback of Video CDs featuring PBC (Playback Control), **PBC**, search and time search functions cannot be used nor can you select the range for repeat play.

Playing DivX® VOD content

Some DivX VOD (video on demand) content may only be playable a fixed number of times. When you load a disc containing this type of DivX VOD content, the remaining number of plays is shown on-screen and you then have the option of playing the disc (thereby using up one of the remaining plays), or stopping. If you load a disc that contains expired DivX VOD content (for example, content that has zero remaining plays),

EXPIRED (Rental Expired) is displayed.

- If your DivX VOD content allows an unlimited number of plays, then you may load the disc into your player and play the content as often as you like, and no message will be displayed.

Important

- In order to play DivX VOD content on this unit, you first need to register the unit with your DivX VOD content provider. About your regis-

tration code, refer to *Displaying your DivX® VOD registration code* on page 42.

- DivX VOD content is protected by a DRM (Digital Rights Management) system. This restricts playback of content to specific, registered devices.

- **If the message is displayed after loading a disc containing DivX VOD content, press ▶/II.**

Playback of the DivX VOD content will start.

- To skip to the next file, press ▶▶.
- If you do not want to play the DivX VOD content, press ■.

CM skip/CM back

This function skips a reproduced image for a specified time. If the currently playing disc contains commercials, it is possible to skip them.

- This function is available for DVD.

- **To skip progressively backward or forward, press CM BACK or CM SKIP.**

Each time you press **CM BACK** or **CM SKIP** it changes steps in the following order:

CM back

5 sec.—15 sec.—30 sec.—1.0 min.—2.0 min.—3.0 min.—0 sec.

CM skip

30 sec.—1.0 min.—1.5 min.—2.0 min.—3.0 min.—5.0 min.—10.0 min.—0 sec.

After displaying the selected option for two seconds, reproduced image skips.

- If you do not operate the function within about eight seconds, the display is automatically returned.

Resume playback (Bookmark)

The Bookmark function lets you resume playback from a selected scene the next time the disc is loaded.

- This function is available for DVD video.
- **During playback, press 3/BOOKMARK at the point you want to resume playback next time.**

The selected scene will be bookmarked so that playback resumes from that point next time. You can bookmark up to five discs. After that, the oldest bookmark is replaced by the new one.

- To clear the bookmark on a disc, press and hold **3/BOOKMARK** during playback.



Notes

- You can also perform this operation by pressing **BOOKMARK** on the remote control.
 - To perform this function, set the remote control to **DVD** mode.
- You can also bookmark a disc by pressing and holding **EJECT** at the point you want to bookmark. Next time you load the disc, playback will resume from the bookmarked point. Note that you can only bookmark one disc using this method. To clear the bookmark on a disc, press **EJECT**.

Specifying title

- This function is available for DVD.
- To perform this function, set the remote control to **DVD** mode.
- **Press 0 to 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 that order.
- To select 23, press **10**, **10** and **3** in that order.

Specifying track

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

- This function is available for Video CD.
- During playback of Video CDs featuring PBC (playback control), this function cannot be operated.
- To perform this function, set the remote control to **DVD** mode.

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

Searching for the part you want to play

You can use the search function to find the part you want to play.

- Chapter search and track search are not possible when disc playback has been stopped.
- During playback of Video CDs featuring PBC (playback control), this function cannot be operated.
- To perform this function, set the remote control to **DVH** mode.

1 Press DIRECT.

2 Press 0 to 9 to input the desired number.

- To cancel the inputted numbers, press **CLEAR**.

3 Press DIRECT.

This starts playback from the selected part.

- After entering the number input mode, if you do not perform an operation within about eight seconds, the mode is automatically canceled.

Operating this unit

Note


With discs featuring a menu, you can also press **MENU** or **TOP MENU** and then make selections from the displayed menu.

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.

- This function is available for DVD and DivX disc.

1 Press 4/iPod/AUDIO during playback.

The audio selection icon  is displayed for eight seconds.

2 Press 4/iPod/AUDIO while the audio selection icon is displayed.

The audio changes each time you press 4/iPod/AUDIO.

Notes


- You can also perform this operation by pressing **AUDIO** on the remote control.
- 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 39.
- Only digital output of DTS audio is possible. If this unit's optical digital outputs are not connected, DTS audio will not be output, so select an audio setting other than DTS.
- Display indications such as **Dolby D** and **Mch** indicate the audio system recorded on the DVD. Depending on the setting, playback may not be with the same audio system as that indicated.
- Performing this operation 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.

- This function is available for DVD and DivX disc.

1 Press 5/⏏/SUB TITLE during playback.

The subtitle selection icon  is displayed for eight seconds.

2 Press 5/⏏/SUB TITLE while the subtitle selection icon is displayed.


The subtitle language changes each time you press 5/⏏/SUB TITLE.

Notes

- You can also perform this operation by pressing **SUBTITLE** on the remote control.
- 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 39.
- Performing this operation 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.

- This function is available for DVD video.
- During playback of a scene shot from multiple angles, the angle icon  is displayed. Turn angle icon display on or off using the DVD setup menu. For details, refer to *Setting the angle icon display* on page 40.

Operating this unit

1 Press 6/↔/ANGLE during playback of a scene shot from multiple angles.

The angle icon  and angle number 1 are displayed for eight seconds.

2 Press 6/↔/ANGLE while the angle icon and angle number are displayed.

The angle changes each time you press 6/↔/ANGLE.



Notes

- You can also perform this operation by pressing **ANGLE** on the remote control.
- Performing this operation during fast forward/fast reverse, pause or slow motion playback returns you to normal playback, but the viewing angle does not change.

Frame-by-frame playback

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

- This function is available for DVD, DivX disc and Video CD.

● Press **II▶** during playback.

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


- To return to normal playback, press **▶/II**.
- With some discs, images may be unclear during frame-by-frame playback.

Slow motion playback

This lets you slow down playback speed.

- This function is available for DVD, DivX disc and Video CD.

1 Press **II▶** and hold during playback.

The icon  is displayed, forward slow motion playback begins.

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

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

- To return to normal playback, press **▶/II**.
- You cannot operate this step during DivX disc playback.



Notes

- There is no sound during slow motion playback.
- With some discs, images may be unclear during slow motion playback.
- Reverse slow motion playback is not possible.

Return to the specified scene

You can return to the specified scene where the DVD you are currently playing has been preprogrammed to return.

- This function is available for DVD video.

● Press **RETURN** to return to the specified scene.

- If a specified scene has not been preprogrammed in DVD disc, this function is not possible.

Automatic playback of DVDs

When a DVD disc with DVD menu is inserted, this unit will cancel the DVD menu automatically and start playback from the first chapter of the first title.

- This function is available for DVD video.
- Some DVDs may not operate properly. If this function is not fully operated, turn this function off and start playback.

● Press **AUTO PLAY** to turn automatic playback on.

A PLAY:ON is displayed.

- To turn automatic playback off, press **AUTO PLAY** again.

Operating this unit

Displaying text information

When the video output is set to off in the initial setting menu (refer to *Setting the display connection on or off* on page 46), the text information of the currently playing disc will appear on this unit. You can switch the text information.

- When the video output is set to on in the initial setting menu and an separately sold display is connected to this unit, the text information appears on the display (refer to *Switching the information display* on page 27). The elapsed playing time is displayed on this unit and you cannot switch the text information.

● Press **DISP/BACK/SCRL** to select the desired text information.

For CD TEXT discs

Play time—**DISC TITLE** (disc title)—

ARTISTNAME (disc artist name)—

TRACKTITLE (track title)—**ARTISTNAME**
(track artist name)

For compressed audio files

Play time—**FLD NAME** (folder name)—

FILE NAME (file name)—**TRACKTITLE** (track
title)—**ARTISTNAME** (artist name)—

ALBUMTITLE (album title)—**COMMENT**
(comment)—bit rate—folder and track num-
bers

Notes

- You can scroll to the left of the title by pressing and holding **DISP/BACK/SCRL**.
- Audio CD that contains certain information such as text and/or number is CD TEXT.
- If specific information has not been recorded on a disc, **NO XXXX** will be displayed (e.g., **NO NAME**).
- Depending on the version of iTunes used to write MP3 files onto a disc, comment information may not be correctly displayed.
- Depending on the version of Windows Media™ Player used to encode WMA files, album names and other text information may not be correctly displayed.

- When playing back VBR (variable bit rate)-recorded WMA files, the average bit rate value is displayed.
- When playing back VBR (variable bit rate)-recorded MP3 files, **VBR** is displayed instead of bit rate value.
- The sampling frequency shown in the display may be abbreviated.
- When Ever Scroll is set to ON at the initial setting, text information scrolls continuously in the display. Refer to *Switching the ever scroll* on page 45.

Selecting titles from the title list

When the separately sold display is connected to this unit, the listed information will appear on it.

Title list lets you see the list of titles on a disc and select one of them to play back.

- This function is available for DVD-VR.

1 Press **LIST/** to switch to the title list mode.

2 Use **MULTI-CONTROL** to select the desired title.

Turn to change the title. Press to play.

- You can also change the title by pressing ▲ and ▼.
- To return to the ordinary display, press

BAND/ESC or **LIST/**.

- If you do not operate the list within about 30 seconds, the display automatically returns to the ordinary display.

Selecting files from the file name list

When the separately sold display is connected to this unit, the listed information will appear on it.

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

- This function is available for compressed audio, JPEG and DivX disc.

Operating this unit

1 Press LIST/☰ to switch to the file name list mode.

2 Use MULTI-CONTROL to select the desired file name (or folder name).

Turn to change the name of file or folder.

- when a file is selected, press to play.
- when a folder is selected, press to see a list of files (or folders) in the selected folder.
- when a folder is selected, press and hold to play a song in the selected folder.

- You can also change the name of a file or folder by pressing ▲ and ▼.
- You can also play the file by pressing ►.
- You can also play a song in the selected folder by pressing and holding ►.
- To return to the previous list (the folder one level higher), press ◀.
- To return to the ordinary display, press

BAND/ESC or **LIST/☰**.

- If you do not operate the list within about 30 seconds, the display automatically returns to the ordinary display.

Selecting tracks from the track title list

When the separately sold display is connected to this unit, the listed information will appear on it.

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

- This function is available for CD TEXT.

1 Press LIST/☰ to switch to the track title list mode.

2 Use MULTI-CONTROL to select the desired track title.

Turn to change the track title. Press to play.

- You can also change the track title by pressing ▲ or ▼.

- To return to the ordinary display, press

BAND/ESC or **LIST/☰**.

- If you do not operate the list within about 30 seconds, the display automatically returns to the ordinary display.

Introduction to advanced operations

Following functions can be operated during playback.

1 Press MULTI-CONTROL to display the main menu.

2 Use MULTI-CONTROL to select FUNCTION.

Turn to change the menu option. Press to select.

The function menu is displayed.

3 Turn MULTI-CONTROL to select the function.

For DVD video and Video CD

REPEAT (repeat play)—**LR SELECT** (audio output)—**PAUSE** (pause)

For DVD-VR discs

REPEAT (repeat play)—**LR SELECT** (audio output)—**PAUSE** (pause)—**PLAYLIST** (playlist)

For JPEG files

REPEAT (repeat play)—**RANDOM** (random play)—**ROTATION** (picture rotation)—**PAUSE** (pause)

For DivX discs

REPEAT (repeat play)—**PAUSE** (pause)

For CD-DA, CD TEXT and compressed audio files

REPEAT (repeat play)—**RANDOM** (random play)—**SCAN** (scan play)—**PAUSE** (pause)—**S.RTRV** (advanced sound retriever)



Notes

- You can also select the function by pressing **FUNCTION** on the remote control.
- To return to the previous display, press **DISP/BACK/SCRL**.
- To return to the main menu, press and hold **DISP/BACK/SCRL**.

Operating this unit

- To return to the ordinary display, press **BAND/ESC**.
- If you do not operate the list within about 30 seconds, the display automatically returns to the ordinary display.
- During PBC (Playback Control) playback, you cannot select **REPEAT**.

Selecting a repeat play range

Tracks in a play range are played repeatedly. Play range varies depending on the media. For DVD, play range can be selected from **DISC** (disc repeat), **TITLE** (title repeat) and **CHAPTER** (chapter repeat).

For Video CD and CD, play range can be selected from **DISC** (disc repeat) and **TRACK** (track repeat).

For compressed audio and DivX, play range can be selected from **DISC** (disc repeat), **FOLDER** (folder repeat) and **TRACK** (file repeat).

For JPEG files, play range can be selected from **DISC** (disc repeat) and **FOLDER** (folder repeat).

- During playback of Video CDs featuring PBC (playback control), this function cannot be operated.
- **Press 6/↔ to select the repeat range.**
 - **TITLE** – Repeat the current title
 - **CHAPTER** – Repeat the current chapter
 - **TRACK** – Repeat the current track
 - **FOLDER** – Repeat the current folder
 - **DISC** – Play through the current disc

Notes

- You can also perform this operation in the menu that appears by using **MULTI-CONTROL**.
- If you perform chapter search, track search or fast forward/reverse, the repeat play range changes to **DISC**.
- If you select another folder during repeat play, the repeat play range changes to **DISC**.

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

Playing tracks/files in random order

Tracks/files in a selected repeat range are played in random order.

Refer to *Selecting a repeat play range* on this page.

- This function is available for JPEG files, CD-DA disc and compressed audio files.
- **Press 5/🔀 to turn random play on.** Tracks and files play in a random order.
 - To turn random play off, press 5/🔀 again.

Note

You can also turn this function on or off in the menu that appears by using **MULTI-CONTROL**.

Scanning folders and tracks

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

When playing the compressed audio disc, the first 10 seconds of each track of the current folder (or the first track of each folder) is played.

Refer to *Selecting a repeat play range* on this page.

- This function is available for CD and compressed audio disc.

Operating this unit

1 Use **MULTI-CONTROL** to select **SCAN** in the function menu.

Refer to *Introduction to advanced operations* on page 24.

2 Press **MULTI-CONTROL** to turn scan play on.

The first 10 seconds of each track is played.

3 When you find the desired track press **MULTI-CONTROL** to turn scan play off.

- If the display has automatically returned to the playback display, select **SCAN** again by using **MULTI-CONTROL**.
- After scanning of a disc (folder) is finished, normal playback of the tracks begins.

Selecting audio output

When playing DVD video discs recorded with LPCM audio, you can switch the audio output. When playing Video CD discs, you can switch between stereo and monaural audio output.

- This function is available for DVD and Video CD.
- This function is not possible when disc playback has been stopped.
- If you select **Linear PCM**, when playing a disc recorded on a dual mono mode, you can operate this function. (Refer to *Setting for digital output* on page 42.)

1 Use **MULTI-CONTROL** to select **LR SELECT** in the function menu.

Refer to *Introduction to advanced operations* on page 24.

2 Press **MULTI-CONTROL** to display the setting mode.

3 Turn **MULTI-CONTROL** to select the desired setting.

- **L+R** – left and right
- **L** – left
- **R** – right
- **MIX** – mixing left and right

4 Press **MULTI-CONTROL** to determine the selection.

- Even if the menu has been canceled before determination, operation is settled.



Note

Depending on the disc and the playback location on the disc, the function may not be selectable, indicating that operating this function is not possible.

Pausing playback

● Press **2/PAUSE** to turn pause on.

Playback of the current track pauses.

- To turn pause off, press **2/PAUSE** again.



Note

You can also perform this operation in the menu that appears by using **MULTI-CONTROL**.

Selecting the play mode

You have two methods for playing DVD-VR disc; **ORIGINAL** (original) and **PLAYLIST** (playlist).

- Titles created with DVD recorders are called original. Based on original, rearranged titles are called playlist. Playlists are created on DVD-R/RW discs.
- This function is available for DVD-VR.

1 Use **MULTI-CONTROL** to select **PLAYLIST** in the function menu.

Refer to *Introduction to advanced operations* on page 24.

2 Press **MULTI-CONTROL** to display the setting mode.

3 Turn **MULTI-CONTROL** to select the desired play mode.

If the play mode is changed, playback starts from the beginning of the selected play mode.

Operating this unit

4 Press MULTI-CONTROL to determine the selection.

- Even if the menu has been canceled before determination, operation is settled.

Using advanced sound retriever

Advanced sound retriever function automatically enhances compressed audio and restores rich sound.

- This function is available for CD-DA, CD TEXT and compressed audio files.
- Press 1/S.Rtrv repeatedly to select the desired setting.
OFF (off)—1—2
- 2 is more effective than 1.

Notes

- You can also perform this operation in the menu that appears by using **MULTI-CONTROL**.
- When you use this unit with a multi-channel processor (DEQ-P7650/DEQ-P6600) and switch the advanced sound retriever function to **1** or **2**, the volume will become slightly lower. The volume will become much lower for **2** than it will for **1**. Take care when you increase the volume for **2** and then switch to **OFF**, because the volume will suddenly seem much louder.

Rotating the displayed picture

- This function is available for JPEG files.

1 Use MULTI-CONTROL to select ROTATION in the function menu.

Refer to *Introduction to advanced operations* on page 24.

2 Press MULTI-CONTROL to display the setting mode.

3 Turn MULTI-CONTROL to select the desired setting.

- **0** – Cancel the rotation

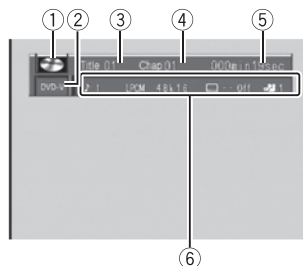
- **90** – Rotate 90 degrees
- **180** – Rotate 180 degrees
- **-90** – Rotate -90 degrees

4 Press MULTI-CONTROL to determine the selection.

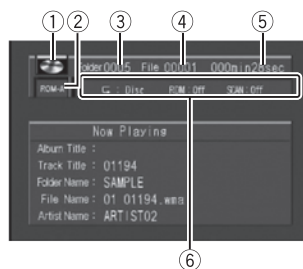
- Even if the menu has been canceled before determination, operation is settled.

Switching the information display

When the video output is set to on in the initial setting menu (refer to *Setting the display connection on or off* on page 46) and a separately sold display is connected to this unit, the text information appears on the display.



Information display



Title display

- ① Disc icon
 - When playing a disc containing various data format, **MIXED** appear on it.
- ② Media indicator
- ③ Title/Folder number indicator
DVD: shows the title currently playing.
Compressed audio, JPEG files and DivX: shows the folder currently playing.

Operating this unit

- ④ Chapter/track/file number indicator
 DVD: shows the chapter currently playing.
 Video CD and CD: shows the track currently playing.
 Compressed audio, JPEG files and DivX: shows the file currently playing.
- ⑤ Play time indicator
- ⑥ Variable message area
 DVD video: shows the audio language, subtitle language, viewing angle, repeat range and speaker output channel.
 DVD-VR: shows the play mode, audio system, speaker output channel, subtitle setting and repeat range.
 Video CD: shows the repeat range and audio output channel.
 JPEG files: shows the repeat range and random setting.
 DivX: shows the audio system, subtitle setting and repeat range.
 CD, compressed audio: shows the repeat range, random setting and scan setting.

● **Press DISP/BACK/SCRL to switch the information display.**

For DVD video

Information display 1—Information display 2
 —Normal playback display

For DVD-VR discs

Information display 1—Information display 2
 —Disc name display—Title display—Normal playback display

For Video CDs

Information display—Normal playback display

For JPEG files and DivX discs

Information display—Folder name display—
 File name display—Normal playback display

For CD TEXT discs and compressed audio files

Information display—Title display
 Title display shows the text information of the currently playing disc.

— **For CD TEXT discs**

Disc Title (disc title), **Disc Artist** (disc artist name), **Track Title** (track title), **Track Artist** (track artist name)

— **For compressed audio files**

Album Title (album title), **Track Title** (track title), **Folder Name** (folder name), **File Name** (file name), **Artist Name** (artist name)

- Text information on the Title display does not scroll.
- When a Video CD featuring the PBC (playback control) function starts playing, **PLAYBACK CONTROL ON** will be displayed instead of track number indicator and play time indicator. ■

Operating this unit

USB portable audio player/ USB memory

You can play compressed audio files and JPEG image files stored in a USB storage device.

- For details about compatibility, refer to *USB audio player/USB memory*.
- In the following instructions, USB memories and USB audio players are collectively referred to as the “USB storage device.”

Basic Operations

● Plugging a USB storage device and playing

- 1 Plug a USB storage device into the USB port.
Regarding the position of USB port, refer to *Head unit* on page 9.
- 2 Press **SRC/OFF** to select **USB** as a source.
Playback will start.
 - Use a USB cable to connect the USB storage device to the USB port. Since the USB storage device is projected forward from the unit, it is dangerous to connect directly.

● Selecting a folder

Press **▲** or **▼**.

- You cannot select a folder that does not have a file saved in it.

● Fast forwarding or reversing

Press and hold **◀** or **▶**.

● Selecting a track/file

Press **◀** or **▶**.

● Returning to root folder

Press and hold **BAND/ESC**.

● Unplugging a USB storage device

Pull out the USB storage device.

You can disconnect the USB storage device anytime you want to finish listening to it.

Notes

- Read the precautions for USB storage devices and this unit in the following section. Refer to *USB audio player/USB memory*.

- If a USB storage device contains a mixture of various media file types such as JPEG and compressed audio, you can switch between media file types to play. Refer to *Switching the media file type* on this page.
- If an error message is displayed, refer to *Error messages* on page 67.
- If folder 01 (ROOT) contains no files, playback commences with folder 02.
- When the USB portable audio player having battery charging function is connected to this unit and the ignition switch is set to ACC or ON, the battery is charged.

Switching the media file type

When connecting a USB storage device containing a mixture of various media file types such as JPEG and compressed audio, you can switch between media file types to play.

- This unit allows playback of the following media file type stored in a USB storage device.
 - Compressed audio files
 - JPEG files

● Press **BAND/ESC** to switch between media file types.

Selecting a file directly in the current folder

The operation is the same as that of the built-in DVD player.

Refer to *Searching for the part you want to play* on page 20.

Displaying text information

The operation is the same as that of the compressed audio on the built-in DVD player.

Refer to *Displaying text information* on page 23.

Selecting files from the file name list

The operation is the same as that of the built-in DVD player.

Refer to *Selecting files from the file name list* on page 23.

Introduction to advanced operations

1 Press MULTI-CONTROL to display the main menu.

2 Use MULTI-CONTROL to select FUNCTION.

Turn to change the menu option. Press to select.

3 Turn MULTI-CONTROL to select the function.

For compressed audio files

REPEAT (repeat play)—**RANDOM** (random play)—**SCAN** (scan play)—**PAUSE** (pause)—**S.RTRV** (advanced sound retriever)

For JPEG files

REPEAT (repeat play)—**RANDOM** (random play)—**ROTATION** (picture rotation)—**PAUSE** (pause)

Function and operation

The operations are basically the same as that of the built-in DVD player.

Function name	Operation
REPEAT	Refer to <i>Selecting a repeat play range</i> on page 25. However, the repeat play ranges you can select are different from that of the built-in DVD player. The repeat play ranges of the USB portable audio player/USB memory are: <ul style="list-style-type: none"> • TRACK – Repeat just the current file • FOLDER – Repeat the current folder • ALL – Repeat all files
RANDOM	Refer to <i>Playing tracks/files in random order</i> on page 25.
SCAN	Refer to <i>Scanning folders and tracks</i> on page 25.
PAUSE	Refer to <i>Pausing playback</i> on page 26.
S.RTRV	Refer to <i>Using advanced sound retriever</i> on page 27.
ROTATION	Refer to <i>Rotating the displayed picture</i> on page 27.




Notes

- You can also select the function by pressing **FUNCTION** on the remote control.
- To return to the previous display, press **DISP/BACK/SCRL**.
- To return to the main menu, press and hold **DISP/BACK/SCRL**.
- To return to the ordinary display, press **BAND/ESC**.
- If you do not operate functions within about 30 seconds, the display automatically returns to the ordinary display.
- If you select another folder during repeat play, the repeat play range changes to **ALL**.
- 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.
- After file or folder scanning is finished, normal playback of the files begins again.

Operating this unit

Switching the information display

The operation is the same as that of the built-in DVD player.

Refer to *Switching the information display* on page 27. 

iPod

You can control and play songs/videos on an iPod.

- For details about the supported iPod, refer to *iPod compatibility* on page 74.
- When playing songs on an iPod, iPod Dock Connector to USB Cable is required.
- If an iPod with video capabilities is connected to this unit via interface cable (e.g. CD-IU50V), which is sold separately, you can enjoy the video contents of the iPod as the **IPOD** source. You need not change the setting of **AUX1** and **AUX2**.

Basic Operations

● Connecting an iPod

- 1 Plug an iPod into the USB port/USB port and AUX input.
 - When playing songs on an iPod, plug an iPod into the USB port using the iPod Dock Connector to USB Cable.
 - When playing videos on an iPod with video capabilities, plug an iPod into the USB port and AUX input using an interface cable (e.g., CD-IU50V).

For details on the position of the USB port and AUX input, refer to *Head unit* on page 9.

- 2 Press **SRC/OFF** to select **USB-IPOD** as a source.
Playback will start.

● Fast forwarding or reversing

Press and hold ◀ or ▶.

● Selecting a song/video/chapter

Press ◀ or ▶.

● Disconnecting an iPod

Pull out the iPod Dock Connector to USB Cable or the interface cable.



Notes

- Read the precautions for iPod in the following section. Refer to page 74.
- While iPod is connected to this unit, **PIONEER** (or ✓ (check mark)) is displayed on the iPod.

Operating this unit

- If an error message is displayed, refer to *Error messages* on page 67.
- When the ignition switch is set to ACC or ON, the iPod's battery is charged while the iPod is connected to this unit.
- Before connecting the dock connector of this unit to the iPod, disconnect the headphones from the iPod.
- The iPod is turned off about two minutes after the ignition switch is set to OFF.

Browsing for a song/video

Operations to control an iPod with this unit is designed to be as close to the iPod as possible to make operation and song/video search easy.

- When the separately sold display is connected to this unit and the video output is set to on in the initial setting menu (refer to *Setting the display connection on or off* on page 46), the listed information of videos will appear on the display.
- Depending on the number of files in the iPod, there may be a delay when displaying a list.
- If the characters recorded on the iPod are not compatible with this unit, those characters are not displayed.

Searching songs by category

1 Press LIST/i to switch to the top menu of the list search.

2 Use MULTI-CONTROL to select a category.

Turn to change the category. Press to select.

When browsing for a song

Playlists (playlists)—**Artists** (artists)—**Albums** (albums)—**Songs** (songs)—**Podcasts** (podcasts)—**Genres** (genres)—**Composers** (composers)—**Audiobooks** (audiobooks)

When browsing for a video

Video Playlists (video playlists)—**Movies** (movies)—**Music Videos** (music videos)—

Video Podcasts (video podcasts)—**Rentals** (rentals)

List for the selected category is displayed.

- You can start playback throughout the selected category by pressing and holding **MULTI-CONTROL**. You can also perform this operation by pressing and holding ►.
- You can also change the category by pressing ▲ or ▼.
- You can also select the category by pressing ►.
- When browsing for a video, the lists to be displayed are different depending on the kind of iPod.

3 Repeat step 2 to find a song you want to listen to.

- To return to the previous category (one level higher), press **DISP/BACK/SCRL**. You can also perform this operation by pressing ◀.
- To return to the top tier of categories, press and hold **DISP/BACK/SCRL**.
- To return to the ordinary display, press **BAND/ESC**.
- If you do not operate the list within about 30 seconds, the display automatically returns to the ordinary display.

Searching by alphabet in the list

1 Use MULTI-CONTROL to select a category.

Turn to change the category. Press to select.

2 When a list for the selected category is displayed, press LIST/i to switch to alphabet search mode.

SEARCH is displayed.

3 Turn MULTI-CONTROL to select a letter of the alphabet.

4 Press MULTI-CONTROL to display the alphabetical list.

The list is displayed starting from the selected letter of the alphabet.

- If alphabet search fails, **NOT FOUND** is displayed.

Operating this unit

Displaying text information on iPod

When the video output is set to off in the initial setting menu (refer to *Setting the display connection on or off* on page 46), the text information of the currently playing disc will appear on this unit. You can switch the text information.

- When the video output is set to on in the initial setting menu and an separately sold display is connected to this unit, the text information appears on the display (refer to *Switching the information display* on page 27). The elapsed playing time is displayed on this unit and you cannot switch the text information.

• Press **DISP/BACK/SCRL** to select the desired text information.

CTRL IPOD—play time—**SONG TITLE** (song title)—**ARTISTNAME** (artist name)—**ALBUMTITLE** (album title)—number of songs

- If the characters recorded on the iPod are not compatible with this unit, those characters are not displayed.

Notes

- Only when the control mode is set to **CTRL IPOD**, **CTRL IPOD** is displayed. Refer to *Operating this unit's iPod function from your iPod* on the next page.
- You can scroll the text information to the left by pressing and holding **DISP/BACK/SCRL**.
- When Ever Scroll is set to ON at the initial setting, text information scrolls continuously in the display. Refer to *Switching the ever scroll* on page 45.

Introduction to advanced operations

1 Press **MULTI-CONTROL** to display the main menu.

2 Use **MULTI-CONTROL** to select **FUNCTION**.

Turn to change the menu option. Press to select.

3 Turn **MULTI-CONTROL** to select the function.

For song

REPEAT (repeat play)—**SHUFFLE** (shuffle)—**SHUFFLEALL** (shuffle all)—**LINK PLAY** (link play)—**CTRL** (control mode)—**PAUSE** (pause)—**AUDIO BOOK** (audiobook speed)—**S.RTRV** (advanced sound retriever)

For video

REPEAT (repeat play)—**SHUFFLE** (shuffle)—**CTRL** (control mode)—**PAUSE** (pause)—**WIDE** (screen mode)—**S.RTRV** (advanced sound retriever)

Function and operation

REPEAT, **PAUSE** and **S.RTRV** operations are basically the same as that of the built-in CD player.

Function name	Operation
REPEAT	Refer to <i>Selecting a repeat play range</i> on page 25. However, the repeat play ranges you can select are different from that of the built-in CD player. The repeat play ranges of the iPod are: <ul style="list-style-type: none"> • ONE – Repeat the current song • ALL – Repeat all songs in the selected list
PAUSE	Refer to <i>Pausing playback</i> on page 26.
S.RTRV	Refer to <i>Using advanced sound retriever</i> on page 27.

Notes

- To return to the previous display, press **DISP/BACK/SCRL**.
- To return to the main menu, press and hold **DISP/BACK/SCRL**.
- To return to the ordinary display, press **BAND/ESC**.

Operating this unit

- If you do not operate functions within about 30 seconds, the display automatically returns to the ordinary display.
- When **CTRL** is set to **CTRL IPOD**, only **CTRL** and **S.RTRV** can be operated.
- When using the iPod fifth generation and playing a video, the **S.RTRV** effect will not change even if the setting is altered.

Playing songs/videos in a random order (shuffle)

1 Use MULTI-CONTROL to select SHUFFLE in the function menu.

2 Press MULTI-CONTROL to display the setting mode.

3 Turn MULTI-CONTROL to select the desired setting.

- **SONGS** – Play back songs in the selected list in random order.
- **ALBUMS** – Play back songs from a randomly selected album in order.
- **OFF** – Cancel random play.

4 Press MULTI-CONTROL to determine the selection.

- Even if the menu has been canceled before determination, operation is settled.

Playing all songs/videos in a random order (shuffle all)

● **Press 5/⌘ to turn shuffle all on.**

All songs/videos on the iPod play randomly.

- To turn shuffle all off, set **SHUFFLE** in the **FUNCTION** menu to off.



Note

You can also turn this function on in the menu that appears by using **MULTI-CONTROL**.

Playing songs related to the currently playing song

Songs related to the currently playing song are played. You can play songs of the following lists.

- Album list of currently playing artist
- Song list of currently playing album
- Album list of currently playing genre
- Depending on the number of files in the iPod, there may be a delay when displaying a list.

1 Press and hold LIST/⌘ to switch to the link play mode.

ARTIST is displayed.

2 Use MULTI-CONTROL to select the desired mode.

Turn to change the mode; press to select.

- **ARTIST** – Plays the album of currently playing artist.
- **ALBUM** – Plays the song of currently playing album.
- **GENRE** – Plays the album of currently playing genre.

SEARCHING flashes while searching the list and then the playback of the list starts.

- If the related albums/songs are not found,

NOT FOUND is displayed.



Note

You can also turn this function on in the menu that appears by using **MULTI-CONTROL**.

Operating this unit's iPod function from your iPod

This function cannot be operated with the following iPod models.

— iPod nano first generation

— iPod fifth generation

This unit's iPod function can be operated from your iPod.

1 Press 4/iPod to switch the control mode.

Each pressing **4/iPod** switches the control mode as follows:

Operating this unit

- **CTRL IPOD** – This unit's iPod function can be operated from the connected iPod.
- **CTRL AUDIO** – This unit's iPod function can be operated from this unit.

2 When you select CTRL IPOD, operate the connected iPod to select a song/video and play.

- Switching the control mode to **CTRL IPOD** pauses song/video playback. Operate the iPod to start playback.
- Even if the control mode is set to **CTRL IPOD**, following functions are available from this unit.
 - Volume
 - Fast forward/reverse
 - Track up/down
 - Switching the text information



Notes

- You can also switch the control mode in the menu that appears by using **MULTI-CONTROL**.
- When the control mode is set to **CTRL IPOD**, operations are limited as follows:
 - Functions other than **CTRL** (control mode) and **S.RTRV** (advanced sound retriever) cannot be selected.
 - Browse function cannot be operated from this unit.

Changing audiobook speed

While listening to an audiobook on iPod, playback speed can be changed.

- 1 Use **MULTI-CONTROL** to select **AUDIO BOOK** in the function menu.
- 2 Press **MULTI-CONTROL** to display the setting mode.
- 3 Turn **MULTI-CONTROL** to select the desired setting.
 - **FASTER** – Playback faster than normal speed
 - **NORMAL** – Playback in normal speed
 - **SLOWER** – Playback slower than normal speed

4 Press **MULTI-CONTROL** to determine the selection.

- Even if the menu has been canceled before determination, operation is settled.

Changing the screen mode

While video is playing, you can select the display mode between widescreen (16:9) and standard (4:3) screen.

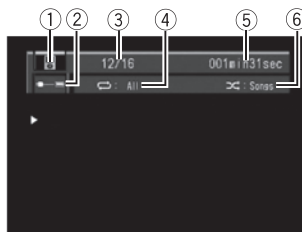
1 Use **MULTI-CONTROL** to select **WIDE** in the function menu.

2 Press **MULTI-CONTROL** to switch the screen mode.

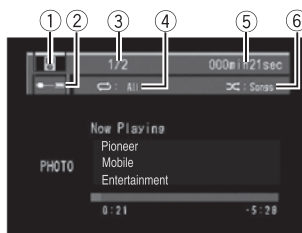
- **WIDE:ON** – Wide screen (16:9)
- **WIDE:OFF** – Standard screen (4:3)

Information display

When the video output is set to on in the initial setting menu (refer to *Setting the display connection on or off on page 46*) and a separately sold display is connected to this unit, the text information appears on the display.



Information display



Title display

- ① Source icon

Operating this unit


- ② Power indicator
Appears when the power is supplied to the iPod.
- ③ Song number indicator
- ④ Repeat indicator
- ⑤ Play time indicator
- ⑥ Shuffle indicator

- **Press DISP/BACK/SCRL to switch the information display.**

Information display—Title display

Title display shows the text information of currently playing song.

Album art, song title, artist name, album title, elapsed playing time

- If an album art data is not included in a song, **PHOTO** is displayed. 

Audio Adjustments

Introduction of audio adjustments

1 Press MULTI-CONTROL to display the main menu.

2 Use MULTI-CONTROL to select AUDIO.

Turn to change the menu option. Press to select.

3 Turn MULTI-CONTROL to select the audio function.

FAD/BAL (balance adjustment)—**EQUALIZER** (equalizer recall)—**TONE CTRL** (equalizer adjustment)—**LOUDNESS** (loudness)—**SLA** (source level adjustment)



Notes

- You can also use **A.MENU** on the remote control to select an audio menu.
- To return to the previous display, press **DISP/BACK/SCRL**.
- To return to the main menu, press and hold **DISP/BACK/SCRL**.
- To return to the ordinary display, press **BAND/ESC**.
- When selecting FM as the source, you cannot switch to **SLA**.

- If you do not operate functions within about 30 seconds, the display automatically returns to the ordinary display.

Using balance adjustment

You can change the fader/balance setting so that it can provide the ideal listening environment in all occupied seats.

1 Use MULTI-CONTROL to select FAD/BAL in the audio function menu.

2 Press MULTI-CONTROL to display the setting mode.

3 Press MULTI-CONTROL to select the segment you wish to set.

Press **MULTI-CONTROL** repeatedly to switch between fader and balance.

4 Turn MULTI-CONTROL to adjust speaker balance.

Front/rear speaker balance can be adjusted between **F 15** and **R 15**.

Left/right speaker balance can be adjusted between **L 15** and **R 15**.

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

Operating this unit

Using the equalizer

There are six stored equalizer settings such as **DYNAMIC** (dynamic), **VOCAL** (vocal), **NATURAL** (natural), **CUSTOM** (custom), **FLAT** (flat) and **POWERFUL** (powerful) that can easily be recalled at any time.

- **CUSTOM** is an adjusted equalizer curve that you create.
- When **FLAT** is selected no supplement or correction is made to the sound.

Recalling equalizer curves

- 1 Use **MULTI-CONTROL** to select **EQUALIZER** in the audio function menu.
- 2 Press **MULTI-CONTROL** to display the setting mode.
- 3 Turn **MULTI-CONTROL** to select the equalizer.
DYNAMIC—VOCAL—NATURAL—CUSTOM—FLAT—POWERFUL
- 4 Press **MULTI-CONTROL** to determine the selection.
 - Even if the menu has been canceled before determination, operation is settled.

Adjusting equalizer curves

You can adjust the currently selected equalizer curve setting as desired. Adjusted equalizer curve settings are memorized in **CUSTOM**.

Adjusting bass/mid/treble

You can adjust the bass/mid/treble level.

- 1 Use **MULTI-CONTROL** to select **TONE CTRL** in the audio function menu.
- 2 Press **MULTI-CONTROL** to display the setting mode.
- 3 Press **MULTI-CONTROL** to select **BASS** (bass)/**MID** (mid)/**TREBLE** (treble).

- 4 Turn **MULTI-CONTROL** to adjust the level.

+6 to **-6** is displayed as the level is increased or decreased.

Adjusting loudness

Loudness compensates for deficiencies in the low- and high-sound ranges at low volume.


- 1 Use **MULTI-CONTROL** to select **LOUDNESS** in the audio function menu.
- 2 Press **MULTI-CONTROL** to display the setting mode.
- 3 Turn **MULTI-CONTROL** to select the desired setting.
LOW (low)—**HIGH** (high)—**OFF** (off)
- 4 Press **MULTI-CONTROL** to determine the selection.
 - Even if the menu has been canceled before determination, operation is settled.

Adjusting source levels

Source level adjustment (**SLA**) 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 volume level, which remains unchanged.
 - The AM volume level can also be adjusted with source level adjustments.
- 1 Compare the FM volume level with the level of the source you wish to adjust.
 - 2 Use **MULTI-CONTROL** to select **SLA** in the audio function menu.
 - 3 Press **MULTI-CONTROL** to display the setting mode.
 - 4 Turn **MULTI-CONTROL** to adjust the source volume.
+4 to **-4** is displayed as the source volume is increased or decreased.

5 Press **MULTI-CONTROL** to determine the selection.

- Even if the menu has been canceled before determination, operation is settled. 

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.

- To perform this function, set the remote control to **DVD** mode.

1 Select **DVD** as the source and then press .

2 Press **MENU** when the disc is stopped.

The DVD setup menu is displayed.

3 Move the thumb pad left or right to switch the DVD setup menu categories.

LANG. (language)—**PICT.** (picture)—**GEN.** (general)

4 Move the thumb pad up or down to select the DVD setup function names.

For LANG.

SUBTITLE LANG. (subtitle language settings)

—**AUDIO LANG.** (audio language settings)—

MENU LANG. (menu language settings)—

OSD LANGUAGE (on screen display language setting)—**CHARACTER SET** (character set setting)

For PICT.

ANGLE ICON DISPLAY (angle icon)—

TV ASPECT (TV aspect)—**SLIDESHOW TIME**

(slideshow interval time setting)

For GEN.

PARENTAL (parental lock)—**DivX SUBTITLE**

(DivX subtitle)—**IEC DIGITAL OUTPUT** (digital output setting)—**DivX VOD** (DivX VOD)—

SAMPLING OUTPUT (down sampling output setting)

- If you press **MENU** during display of a DVD setup menu, the DVD setup menu is canceled and the unit returns to the previous display.



Note

You can also perform this operation in the **SETUP** menu that appears when you press and turn **MULTI-CONTROL**.

Operating this unit

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 Move the thumb pad up or down to select SUBTITLE LANG. in LANG.

2 Click the thumb pad.

A subtitle language menu is displayed.

3 Move the thumb pad up, down, left or right to select the desired language.

4 Click the thumb pad.

A subtitle language is set.

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

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 during playback with **SUBTITLE**. (Refer to *Changing the subtitle language during playback (Multi-subtitle)* on page 21.)
- Even if you use **SUBTITLE** to switch the subtitle language, this does not affect the settings here.

When you select OTHERS

When you select **OTHERS**, a language code input display is shown. Please see the following section, use the number buttons to input the four digit code of the desired language, and then click the thumb pad. Refer to *Language code chart for DVD* on page 76.

- Pressing **CLEAR** cancels the input numbers.

Setting the audio language

You can set the preferred audio language.

1 Move the thumb pad up or down to select AUDIO LANG. in LANG.

2 Click the thumb pad.

An audio language menu is displayed.

3 Move the thumb pad up, down, left or right to select the desired audio language.

4 Click the thumb pad.

The audio language is set.

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

Notes

- If the selected language is not recorded on the disc, the language specified on the disc is outputted.
- You can also switch the audio language during playback with **AUDIO**. (Refer to *Changing audio language during playback (Multi-audio)* on page 21.)
- Even if you use **AUDIO** to switch the audio language, this does not affect the settings here.
- If you have selected **OTHERS**, refer to *When you select OTHERS* on this page.

Setting the menu language

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

1 Move the thumb pad up or down to select MENU LANG. in LANG.

2 Click the thumb pad.

A menu language menu is displayed.

3 Move the thumb pad up, down, left or right to select the desired menu language.

4 Click the thumb pad.

The menu language is set.

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

Notes

- If the selected language is not recorded on the disc, the language specified on the disc is outputted.
- If you have selected **OTHERS**, refer to *When you select OTHERS* on this page.

Setting the on screen display language

You can set the preferred language for information display, DVD setup menu and list display etc.

1 Move the thumb pad up or down to select OSD LANGUAGE in LANG.

2 Click the thumb pad.

An on screen display language menu is displayed.

3 Move the thumb pad up or down to select the desired on screen display language.

4 Click the thumb pad.

The on screen display language is set.

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

Setting the character set

You can set the preferred character set for DivX subtitle file, information display and list display.

1 Move the thumb pad up or down to select CHARACTER SET in LANG.

2 Click the thumb pad.

A character set setting menu is displayed.

3 Move the thumb pad up or down to select the desired character set.

4 Click the thumb pad.

The character set is set.

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

Setting the angle icon display

You can set it up so that the angle icon appears on scenes where the angle can be switched.

1 Move the thumb pad up or down to select ANGLE ICON DISPLAY in PICT.

2 Click the thumb pad to select on or off.

Each time you click the thumb pad the selected setting switches on or off.

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

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 you use.

- When using a regular display, select either **LETTER BOX** or **PANSCAN**. Selecting **16:9** may result in an unnatural picture.

1 Move the thumb pad up or down to select TV ASPECT in PICT.

2 Click the thumb pad.

TV aspect menu is displayed.

3 Move the thumb pad up or down to select the desired 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 letterbox 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


4 Click the thumb pad.

The selected TV aspect is set.

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



Notes

- When playing discs that do not specify **PANSCAN**, playback is with **LETTER BOX** even if you select **PANSCAN** setting. Confirm whether the disc package bears the  mark.
- Some discs do not enable changing of the TV aspect. For details, refer to the disc's instructions.

Operating this unit

Setting the slide show interval

Slide show is possible when JPEG files are playing with this unit. In this setting, interval of slide show can be set.

1 Move the thumb pad up or down to select SLIDESHOW TIME in PICT.

2 Click the thumb pad.

A slide show interval time menu is displayed.

3 Move the thumb pad up or down to select the slideshow interval time.

- **Manual** – JPEG images can be switched manually
- **10sec** – JPEG images switch at intervals of 10 seconds
- **20sec** – JPEG images switch at intervals of 20 seconds
- **30sec** – JPEG images switch at intervals of 30 seconds

4 Click the thumb pad.

The slideshow interval time is set.

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

Setting the parental lock

Some DVD video discs let you use parental lock to restrict children from viewing violent and adult-oriented scenes. You can set the parental lock to your desired level.

- 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

You need to have registered a code number for playing back discs with parental lock.

- We recommend to keep a record of your code number in case you forget it.

1 Move the thumb pad up or down to select PARENTAL in GEN.

2 Click the thumb pad.

Parental lock setting menu is displayed.

3 Press 0 to 9 to input a four digit code number.

4 Move the thumb pad left or right to move the cursor to the previous or next position.

5 Click the thumb pad after entering the four digit code number.

The code number is set, and you can now set the level.

6 Move the thumb pad left or right to select the desired level.

- **LEVEL8** – Playback of the entire disc is possible (initial setting)
- **LEVEL7 to LEVEL2** – Playback of discs for children and non-adult-oriented discs is possible
- **LEVEL1** – Playback of discs for children only is possible

7 Click the thumb pad.

The parental lock level is set.

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



Notes

- The parental lock level is recorded on the disc. Look for the level indication written at the disc package, included literature or on the disc itself. Parental lock of this unit is not possible if a parental lock level is not recorded in the disc.
- With some discs, the parental lock may be active only on the scenes with certain levels. The playback of those scenes will be skipped. For details, refer to the instruction manual that came with the discs.

Changing the level

You can change the set parental lock level.

1 Move the thumb pad up or down to select PARENTAL in GEN.

2 Click the thumb pad.

Parental lock setting menu is displayed.


3 Press 0 to 9 to input the registered code number.

Operating this unit

4 Move the thumb pad left or right to move the cursor to the previous or next position.

5 Click the thumb pad after entering the four digit code number.

This enters the code number, and you can now change the level.

- If you input an incorrect code number, the icon  is displayed. Input the correct code number.
- If you forget your code number, refer to *If you forget your code number* on this page.

6 Move the thumb pad left or right to select the desired level.

7 Click the thumb pad.

The parental lock level is set.

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

If you forget your code number

Please see the following section, and press **CLEAR** 10 times in the parental lock setting menu. Refer to *Changing the level* on the previous page. The registered code number is canceled, letting you register a new one.

Setting the DivX subtitle file

You can select whether to display DivX external subtitles or not.

- DivX subtitles will be displayed even when this setting is on if no DivX external subtitle files exist.

1 Move the thumb pad up or down to select DivX SUBTITLE in GEN.

2 Click the thumb pad to select whether to display DivX external subtitles or not.

- **ORIGINAL** – Display the DivX subtitles
- **CUSTOM** – Display the DivX external subtitles
- Pressing **RETURN** takes you back to the previous display.



Notes

- Up to 42 characters can be displayed on one line. If more than 42 characters are set, the line breaks and the characters are displayed on the next line.
- Up to 126 characters can be displayed on one screen. If more than 126 characters are set, the excess characters will not be displayed.

Setting for digital output

Audio which is outputted from digital output of this unit can be selected. Normally, set to **STREAM**. If this unit's digital output is not used, there is no need to change settings.

- Selecting **Linear PCM** enables you to switch the output channel if playing the following type of discs. (Refer to *Selecting audio output* on page 26.)
 - Dual mono mode DVD video discs
 - Bilingual DVD-VR discs

1 Move the thumb pad up or down to select IEC DIGITAL OUTPUT in GEN.

2 Click the thumb pad to select the desired digital output setting.

- **STREAM** – The Dolby Digital/DTS signal is output as it is (initial setting)
- **Linear PCM** – The Dolby Digital/DTS signal is converted to and output as a linear PCM signal
 - Pressing **RETURN** takes you back to the previous display.

Displaying your DivX[®] VOD registration code

In order to play DivX VOD (video on demand) content on this unit, you first need to register the unit with your DivX VOD content provider. You do this by generating a DivX VOD registration code, which you submit to your provider.

1 Move the thumb pad up or down to select DivX VOD in GEN.

2 Click the thumb pad.

Your 8-digit registration code is displayed.

Operating this unit

- Make a note of the code as you will need it when you register with a DivX VOD provider.
- Pressing **RETURN** takes you back to the previous display.

Setting the down sampling output

If the sampling frequency of the audio is more than 96 kHz, the audio outputted from the digital output of this unit can be reduced to 48 kHz. Normally, set the down sampling output to on. If this unit's digital output is not used, there is no need to change settings.

1 Move the thumb pad up or down to select SAMPLING OUTPUT in GEN.

2 Click the thumb pad.

Each time you click the thumb pad the selected setting switches on or off.

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

Initial Settings

Adjusting initial settings

Using the initial settings, you can customize various system settings to achieve optimal performance from this unit.

1 Press SRC/OFF and hold until the unit turns off.

2 Press MULTI-CONTROL and hold until the initial setting menu appears in the display.

3 Turn MULTI-CONTROL to select one of the initial settings.

CLOCK SET (clock)—**FM STEP** (FM tuning step)—**AM STEP** (AM tuning step)—**AUX1** (auxiliary input1)—**AUX2** (auxiliary input2)—**VIDEO IN** (AV input setting)—**SCROLL** (ever scroll)—**COLOR SYS** (DVD output signal setting)—**V.OUT** (display connection)—**DIGITALATT** (digital attenuation)—**RESET** (audio reset)

Use the following instructions to operate each particular setting.



Notes

- You can also select the function by pressing **FUNCTION** on the remote control.
- To return to the previous display, press **DISP/BACK/SCRL**.
- To cancel initial settings, press **BAND/ESC**.
- When **V.OUT** is set to **ON**, you cannot switch to **SCROLL**.
- When the multi-channel processor (DEQ-P7650/DEQ-P6600) is connected to this unit, you can operate **DIGITALATT** and **RESET**.

Setting the clock

Use these instructions to set the clock.

1 Use MULTI-CONTROL to select CLOCK SET in the initial setting menu.

Refer to *Adjusting initial settings* on this page.

Operating this unit

2 Press MULTI-CONTROL to display the setting mode.

- Press **DISP/BACK/SCRL** to return to the previous display.

3 Press MULTI-CONTROL to select the segment of the clock display you wish to set.

Each time you press **MULTI-CONTROL**, one segment of the clock display is selected. Hour—Minute

As you select segments of the clock display, the selected segment blinks.

4 Turn MULTI-CONTROL to put a clock right.

- You can also perform the same operations by pushing **MULTI-CONTROL** up or down.

Setting the FM tuning step

The FM tuning step employed by seek tuning can be switched between 100 kHz, the preset step, and 50 kHz.

- If seek tuning is performed in 50 kHz steps, stations may be tuned in imprecisely. Tune in the stations with manual tuning or use seek tuning again.

1 Use MULTI-CONTROL to select FM STEP in the initial setting menu.

Refer to *Adjusting initial settings* on the previous page.

2 Press MULTI-CONTROL to display the setting mode.

- Press **DISP/BACK/SCRL** to return to the previous display.

3 Turn MULTI-CONTROL to select the FM tuning step.

Turning **MULTI-CONTROL** will switch the FM tuning step between 50 kHz and 100 kHz. The selected FM tuning step will appear in the display.

- You can also perform the same operations by pressing **▲** or **▼**.

4 Press MULTI-CONTROL to determine the selection.

- Even if the menu has been canceled before determination, operation is settled.

Setting the AM tuning step

The AM tuning step can be switched between 9 kHz, the preset step, and 10 kHz. When using the tuner in North, Central or South America, reset the tuning step from 9 kHz (531 kHz to 1 602 kHz allowable) to 10 kHz (530 kHz to 1 640 kHz allowable).

1 Use MULTI-CONTROL to select AM STEP in the initial setting menu.

Refer to *Adjusting initial settings* on the previous page.

2 Press MULTI-CONTROL to display the setting mode.

3 Turn MULTI-CONTROL to select the AM tuning step.

Turning **MULTI-CONTROL** will switch the AM tuning step between 9 kHz and 10 kHz. The selected AM tuning step will appear in the display.

- You can also perform the same operations by pressing **▲** or **▼**.

4 Press MULTI-CONTROL to determine the selection.

- Even if the menu has been canceled before determination, operation is settled.

Switching the auxiliary setting

Auxiliary devices connected to this unit can be activated individually. Set each AUX source to ON when using. For more information about connecting or using auxiliary devices, refer to *Using the AUX source* on page 48.

Operating this unit

Switching the auxiliary 1 setting

1 Use MULTI-CONTROL to select AUX1 in the initial setting menu.

Refer to *Adjusting initial settings* on page 43.

2 Press MULTI-CONTROL to display the setting mode.

- Press **DISP/BACK/SCRL** to return to the previous display.

3 Turn MULTI-CONTROL to select the desired setting.

- **AUDIO** – auxiliary device connected with stereo mini plug cable
- **VIDEO** – auxiliary video device connected with a 4-pole mini plug cable (e.g., CD-V150M)
- **OFF** – No auxiliary device is connected
- You can also perform the same operations by pressing **▲** or **▼**.

4 Press MULTI-CONTROL to determine the selection.

- Even if the menu has been canceled before determination, operation is settled.

Switching the auxiliary 2 setting

1 Use MULTI-CONTROL to select AUX2 in the initial setting menu.

Refer to *Adjusting initial settings* on page 43.

2 Press MULTI-CONTROL to turn AUX2 on.

- To turn **AUX2** off, press **MULTI-CONTROL** again.

Setting the AV input

You can connect AV components to the AV input with an RCA cable.

Switch the AV input setting according to the connected AV component.

For more details, refer to the installation manual.

- Select **EXT-VIDEO** to watch video of a connected video unit as **EXTERNAL** source.

- Select **AUX** to watch video of an auxiliary device as **AUX2** source.

1 Use MULTI-CONTROL to select VIDEO IN in the initial setting menu.

Refer to *Adjusting initial settings* on page 43.

2 Press MULTI-CONTROL to display the setting mode.

- Press **DISP/BACK/SCRL** to return to the previous display.

3 Turn MULTI-CONTROL to select the desired setting.

- **OFF** – No video component connected
- **EXT-VIDEO** – External video unit (such as Pioneer products available in the future)
- **AUX** – Auxiliary device
- To watch video of **AUX** source, set auxiliary 2 setting on. For details, refer to *Switching the auxiliary setting* on the previous page.
- You can also perform the same operations by pressing **▲** or **▼**.

4 Press MULTI-CONTROL to determine the selection.

- Even if the menu has been canceled before determination, operation is settled.

Switching the ever scroll

When Ever Scroll is set to ON, recorded text information scrolls continuously in the display. Set to OFF if you prefer the information to scroll just once.

1 Use MULTI-CONTROL to select SCROLL in the initial setting menu.

Refer to *Adjusting initial settings* on page 43.

2 Press MULTI-CONTROL to display the setting mode.

- Press **DISP/BACK/SCRL** to return to the previous display.

3 Turn MULTI-CONTROL to select the desired setting.

EVER (ever)—**OFF** (off)

Operating this unit

- You can also perform the same operations by pressing ▲ or ▼.

4 Press MULTI-CONTROL to determine the selection.

- Even if the menu has been canceled before determination, operation is settled.

Setting the DVD output signal

When this unit is connected to a display, you need to adjust the DVD output signal suitable to DVD and your display signal setting.

1 Use MULTI-CONTROL to select COLOR SYS in the initial setting menu.

Refer to *Adjusting initial settings* on page 43.

2 Press MULTI-CONTROL to display the setting mode.

- Press **DISP/BACK/SCRL** to return to the previous display.

3 Turn MULTI-CONTROL to select an appropriate DVD output signal. NTSC—PAL

- You can also perform the same operations by pressing ▲ or ▼.

4 Press MULTI-CONTROL to determine the selection.

- Even if the menu has been canceled before determination, operation is settled.

Setting the display connection on or off

You can use this unit with or without the display. When using this unit connected to the display, you can turn the display connection setting on or off. If you turn this function on, the detailed text information of the **DVD**, **USB** and **USB-IPOD** source appears on the display.

1 Use MULTI-CONTROL to select V.OUT in the initial setting menu.

Refer to *Adjusting initial settings* on page 43.

2 Press MULTI-CONTROL to turn display connection on.

- To turn display connection off, press **MULTI-CONTROL** again.



Note

The operation of this unit differs according to the display connection on/off setting. The examples are as follows:

- Playing a compressed audio file and displaying the file name list mode
 - When the display connection is set to on, the files of the currently playing folder are displayed.
 - When the display connection is set to off, the file of the root folder is displayed.
- Playing a compressed audio file and pressing **DISP/BACK/SCRL** in the file name list
 - When the display connection is set to on, the name of the currently playing file is selected.
 - When the display connection is set to off, you can return to the previous list (the folder one level higher).

Correcting distorted sound

Only when the multi-channel processor (DEQ-P7650/DEQ-P6600) is connected to this unit, you can operate this function.

You can minimize distortion that may be 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 Use MULTI-CONTROL to select DIGITALATT in the initial setting menu.

Refer to *Adjusting initial settings* on page 43.

2 Press MULTI-CONTROL to display the setting mode.

- Press **DISP/BACK/SCRL** to return to the previous display.

Operating this unit

3 Turn MULTI-CONTROL to switch the digital attenuator setting.

- **HIGH** – High quality sound
- **LOW** – Minimize distortion sound
- You can also perform the same operations by pressing ▲ or ▼.

4 Press MULTI-CONTROL to determine the selection.

- Even if the menu has been canceled before determination, operation is settled.

Resetting the audio functions

Only when the multi-channel processor (DEQ-P7650/DEQ-P6600) is connected to this unit, you can operate this function.

You can reset audio functions other than the following settings.

- Volume setting (refer to *Adjusting the volume* on page 15)
- Listening position setting (refer to *Using the position selector* on page 55)
- Fader/balance setting (refer to *Using balance adjustment* on page 55)
- SLA (source level adjustment) setting (refer to *Adjusting source levels* on page 57)
- Dynamic range control (refer to *Using the dynamic range control* on page 57)
- Direct control setting (refer to *Using the direct control* on page 57)
- Down-mix setting (refer to *Using the down-mix function* on page 57)

1 Use MULTI-CONTROL to select RESET in the initial setting menu.

Refer to *Adjusting initial settings* on page 43.

2 Press MULTI-CONTROL to display YES/NO selection.

- Press **DISP/BACK/SCRL** to return to the previous display.

3 Turn MULTI-CONTROL to display YES.

4 Press MULTI-CONTROL to display REALLY?.

- Press **DISP/BACK/SCRL** to return to the previous display.

5 Press MULTI-CONTROL to reset audio functions.

COMPLETE appears in the display. 

Other Functions

Using the AUX source

Up to two auxiliary devices such as VCR or portable devices (sold separately) can be connected to this unit. When connected, auxiliary devices are automatically read as AUX sources and assigned to **AUX1** or **AUX2**. The relationship between **AUX1** and **AUX2** sources is explained below.

About AUX1 and AUX2

There are two methods to connect auxiliary devices to this unit.

AUX1 source:

When connecting auxiliary device using the front AUX input

- You need setting in the initial setting menu. Refer to *Switching the auxiliary setting* on page 44.
- If an iPod with video capabilities is connected to this unit via 3.5 mm plug (4 pole) cable (e.g., CD-V150M), you can enjoy the video contents of the iPod.
- It is possible to connect a portable audio/video player by using a 3.5 mm plug (4 pole) to RCA cable, which is sold separately. However, depending on the cable, reverse connection between red (right side audio) cable and yellow (video) cable is required. Otherwise, audio and video may not be correctly reproduced.

● Insert the mini plug into the AUX input jack on this unit.

For more details, refer to *Head unit* on page 9. This auxiliary device is automatically set to **AUX1**.

AUX2 source:

When connecting auxiliary device using the rear RCA input

- You need setting in the initial setting menu. Refer to *Switching the auxiliary setting* on page 44.
- When you connect AV component to the AV input with an RCA cable, you need setting in the initial setting menu. Refer to *Setting the AV input* on page 45.

● Use the rear RCA input to connect an auxiliary device featuring RCA output.

For more details, refer to the installation manual.

This auxiliary device is automatically set to **AUX2**.

- You can only make this type of connection if the auxiliary device has RCA outputs.

Selecting AUX as the source

● Press SRC/OFF to select AUX (AUX1 or AUX2) as the source.

- If the auxiliary setting is not turned on, **AUX** cannot be selected. For more details, refer to *Switching the auxiliary setting* on page 44.

Switching between digital and analog

When this unit is connected to the DEQ-P7650/DEQ-P6600, you can switch to the AUX mode to analog or digital. However, when you use **AUX2** as the source, make sure the AUX mode is set to analog. AUX digital should not be used with this unit.

1 Press SRC/OFF to select AUX2 as the source.

Press **SRC/OFF** until **AUX2** appears in the display.

- If the auxiliary setting is not turned on, **AUX2** cannot be selected. For more details, refer to *Switching the auxiliary setting* on page 44.

2 Press BAND/ESC to switch the modes. ANALOG (analog) — DIGITAL (digital)

Operating this unit

Turning the clock display on or off

You can turn the clock display on or off.

- Even when the sources are off, the clock display appears on the display.
- **Press \odot to turn the clock display on or off.**
Each press of \odot turns the clock display on or off.
 - The clock display disappears temporarily when you perform other operations, but the clock display appears again after 25 seconds.

Using the external unit

External unit refers to a Pioneer product (such as ones available in the future) that, although incompatible as a source, enables control of basic functions with this unit. Two external units can be controlled with this unit. When two external units are connected, the external unit is automatically allocated to external unit 1 or external unit 2 by this unit. Basic operations of the external unit are explained below. Allocated functions are different depending on the connected external unit. For details concerning functions, refer to external unit's owner's manual.

Selecting the external unit as the source

- **Press SRC/OFF to select EXTERNAL as the source.**

Basic operation

Functions allocated to the following operations are different depending on the connected external unit. For details concerning functions, refer to the connected external unit's owner's manual.

- **Press BAND/ESC.**
- **Press and hold BAND/ESC.**
- **Press \blacktriangleleft or \blacktriangleright .**

- **Press and hold \blacktriangleleft or \blacktriangleright .**
- **Press \blacktriangle or \blacktriangledown .**

Using the functions allocated to 1/S.Rtrv/DVD MENU to 6/ \curvearrowright /ANGLE keys

- **Press any of 1/S.Rtrv/DVD MENU to 6/ \curvearrowright /ANGLE.**

Advanced operations

1 Press MULTI-CONTROL to display the main menu.

2 Use MULTI-CONTROL to select FUNCTION.

Turn to change the menu option. Press to select.

3 Turn MULTI-CONTROL to select the function.

FUNCTION 1 (function 1)—**FUNCTION 2** (function 2)—**FUNCTION 3** (function 3)—**FUNCTION 4** (function 4)—**AUTO/MANU** (auto/manual)

- You can also select the function by pressing **FUNCTION** on the remote control.
- You can also turn **FUNCTION 1** on or off by pressing **BOOKMARK** on the remote control.
 - To perform this function, set the remote control to **DVH** mode.



Notes

- To return to the previous display, press **DISP/BACK/SCRL**.
- To return to the main menu, press and hold **DISP/BACK/SCRL**.
- To return to the ordinary display, press **BAND/ESC**.

Using the PGM button

You can operate the preprogrammed functions for each source by using **BOOKMARK**.

- To perform this function, set the remote control to **DVH** mode.

Operating this unit

● **Press BOOKMARK to turn pause on when selecting the following sources:**

- **DVD** – Built-in DVD player
 - **USB** – USB portable audio player/USB memory
 - **USB-IPOD** – iPod
 - **MULTI CD** – Multi-CD player
- To turn pause off, press **BOOKMARK** again.

● **Press BOOKMARK and hold to turn BSM on when selecting TUNER as the source.**

Press **BOOKMARK** and hold until the BSM turns on.

- To cancel the storage process, press **BOOKMARK** again. 

Available accessories

Multi-CD Player

Basic Operations

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

- Only functions described in this manual are supported by 50-disc multi-CD players.

● Selecting a disc

Press ▲ or ▼.

● Fast forwarding or reversing

Press and hold ◀ or ▶.

● Selecting a track

Press ◀ or ▶.

Notes

- When multi-CD player completes preparatory operations, **READY** is displayed.
- If an error message is displayed, refer to the multi-CD player owner's manual.
- If there are no discs in the multi-CD player magazine, **NO DISC** is displayed.

Introduction to advanced operations

You can only use **COMP/DBE** (compression and DBE) with a multi-CD player that supports them.

1 Press MULTI-CONTROL to display the main menu.

2 Use MULTI-CONTROL to select FUNCTION.

Turn to change the menu option. Press to select.

3 Turn MULTI-CONTROL to select the function.

REPEAT (repeat play)—**RANDOM** (random play)—**SCAN** (scan play)—**PAUSE** (pause)—**COMP/DBE** (compression and DBE)—**ITS-P** (ITS play)—**ITS-MEMORY** (ITS programming)

- If you do not operate functions other than **ITS-MEMORY** within about 30 seconds, the display automatically returns to the ordinary display.

Function and operation

REPEAT, RANDOM, SCAN and **PAUSE** operations are basically the same as that of the built-in DVD player.

Function name	Operation
REPEAT	Refer to <i>Selecting a repeat play range</i> on page 25. However, the repeat play ranges you can select are different from that of the built-in CD player. The repeat play ranges of the multi-CD player are: <ul style="list-style-type: none"> • MCD – Repeat all discs in the multi-CD player • TRACK – Repeat just the current track • DISC – Repeat the current disc
RANDOM	Refer to <i>Playing tracks/files in random order</i> on page 25.
SCAN	Refer to <i>Scanning folders and tracks</i> on page 25.
PAUSE	Refer to <i>Pausing playback</i> on page 26.

Notes

- To return to the previous display, press **DISP/BACK/SCRL**.
- To return to the main menu, press and hold **DISP/BACK/SCRL**.
- To return to the playback display, press **BAND/ESC**.
- If you select other discs during repeat play, the repeat play range changes to **MCD**.
- If you perform track search or fast forward/reverse during **TRACK**, the repeat play range changes to **DISC**.
- After track or disc scanning is finished, normal playback of the tracks begins again.

Using compression and bass emphasis

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

COMP (compression) and DBE (dynamic bass emphasis) functions lets you adjust the sound playback quality of the multi-CD player.

1 Use MULTI-CONTROL to select COMP/DBE in the function menu.

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

2 Press MULTI-CONTROL to display the setting mode.

3 Turn MULTI-CONTROL to select the desired setting.

OFF—COMP 1—COMP 2—OFF—DBE 1—DBE 2

4 Press MULTI-CONTROL to determine the selection.

- Even if the menu has been canceled before determination, operation is settled.

Using ITS playlists

ITS (instant track selection) lets you make a playlist of favorite tracks from 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.

You can use ITS to enter and play back up to 99 tracks per disc from up to 100 discs. (With multi-CD players sold before the CDX-P1250 and CDX-P650, up to 24 tracks can be stored in the playlist.)

Creating a playlist with ITS programming

1 Play a CD that you want to program.

Press ▲ or ▼ to select the CD.

2 Use MULTI-CONTROL to select ITS-MEMORY in the function menu.

3 Press MULTI-CONTROL to display the setting mode.

4 Turn MULTI-CONTROL to select the desired track.

5 Press MULTI-CONTROL to select MEMORY.

- If **DELETE** is displayed, turn **MULTI-CONTROL** to display **MEMORY**.

6 Press MULTI-CONTROL to memory the track.

COMPLETE is displayed and the currently playing selection is added to your playlist.



Note

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

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 begin to play.

1 Select the repeat range.

2 Use MULTI-CONTROL to select ITS-P in the function menu.

3 Press MULTI-CONTROL to turn ITS play on.

ON appears in the display. Playback begins of those tracks from your playlist within the previously selected **MCD** or **DISC** ranges.

- If no tracks in the current range are programmed for ITS play, then **ITS EMPTY** is displayed.
- To turn ITS play off, press **MULTI-CONTROL** again.

Erasing a track from your ITS playlist

You can delete a track from your ITS playlist if ITS play is on.

If ITS play is already on, skip to step 2. If ITS play is off, use **MULTI-CONTROL**.

Available accessories

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

Refer to *Playback from your ITS playlist* on the previous page.

2 Use MULTI-CONTROL to select ITS-MEMORY in the function menu.

3 Press MULTI-CONTROL to display the setting mode.

4 Turn MULTI-CONTROL to select the desired track.

5 Press MULTI-CONTROL to select DELETE.

- If **MEMORY** is displayed, turn **MULTI-CONTROL** to display **DELETE**.

6 Press MULTI-CONTROL to delete the track.

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

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

Erasing a CD from your ITS playlist

You can delete all tracks of a CD from your ITS playlist if ITS play is off.

1 Play the CD that you want to delete from your ITS playlist, and turn ITS play off.

Refer to *Playback from your ITS playlist* on the previous page.


2 Use MULTI-CONTROL to select ITS-MEMORY in the function menu.

3 Press MULTI-CONTROL to display the setting mode.

4 Press MULTI-CONTROL to select DELETE.

- If **MEMORY** is displayed, turn **MULTI-CONTROL** to display **DELETE**.

5 Press MULTI-CONTROL to delete the CD.

All tracks on the currently playing CD are deleted from your playlist and **DELETED** is displayed. 

Bluetooth adapter

You can use this unit to control a Bluetooth adapter, which is sold separately.

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

- In some countries, CD-BTB200 is not sold on the market.
- This unit is a head unit group 1 unit.
 - But the selecting a function operation is the same as that of the head unit group 2.
 - When a phone call ends, the system returns to the previous source.
 - When a call comes in during sources other than Bluetooth telephone/audio source and the call is being carried on, you cannot use **BAND/ESC** to switch Bluetooth telephone and Bluetooth audio.

Digital Signal Processor

You can use this unit to control multi-channel processor (DEQ-P7650/DEQ-P6600), which is sold separately.

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

- 1 *Setting the speaker setting*
- 2 *Using the position selector*
- 3 *Auto TA and EQ (auto-time alignment and auto-equalizing)*
- 4 *Adjusting the time alignment*
- 5 *Adjusting the speaker output levels using a test tone*
- 6 *Selecting a cross-over frequency*
- 7 *Adjusting the speaker output levels*
- 8 *Adjusting 3-band parametric equalizer*

Introduction of DSP adjustments

1 Press MULTI-CONTROL to display the main menu.

2 Use MULTI-CONTROL to select AUDIO.
Turn to change the menu option. Press to select.

3 Turn MULTI-CONTROL to select the audio function.

FADER (balance adjustment)—**POSI** (position selector)—**PLII** (Dolby Pro Logic II)—**PANO** (music mode adjust)—**OFF** (sound field control)—**Lo/Ro** (down mix)—**DRC** (dynamic range control)—**DIRECT** (direct)—**SLA** (source level adjustment)—**AUTO EQ** (auto-equalizer on/off)—**FRONT** (speaker setting)—**HPF** (cross-over frequency)—**FRONT-L** (speaker output level)—**TEST TONE** (test tone)—**INITIAL** (time alignment mode)—**FL** (time alignment adjustment)—**POWERFUL** (equalizer recall)—**PEQ** (3-band parametric equalizer)

- You can also use **A.MENU** on the remote control to select an audio menu.

Available accessories

- When playing discs recorded with more than 96 kHz sampling frequency, you cannot use audio functions. Also, equalizer curve setting, **POSI**, **AUTO EQ** and **AUTO TA** will be canceled.
- When playing discs recorded with more than 96 kHz sampling frequency, audio is outputted from front speakers only.
- When both the center speaker and the rear speaker are set to OFF in the speaker setting, you cannot switch to **PLII**.
 - All audio functions are locked out when the direct control is on except **VOLUME** and **PLII**.
- When you select **MUSIC** in the **PLII**, you can select adjusting music mode.
- When playing other than the DVD disc, you cannot switch to **DRC**.
- When selecting FM as the source, you cannot switch to **SLA**.
- When you select **TA:OFF** in **INITIAL**, you cannot select **FL**.
- You cannot select **AUTO EQ** if auto TA and EQ has not been carried out. **SET A-EQ** is displayed.
- To return to the display of each source, press **BAND/ESC**.
- If you do not operate the DSP function except for **TEST TONE**, **FL** and **PEQ** within about 30 seconds, the display is automatically returned to the source display.

Using balance adjustment

You can change the fader/balance setting so that it can provide the ideal listening environment in all occupied seats.

1 Use MULTI-CONTROL to select FADER in the audio function menu.

Refer to *Introduction of DSP adjustments* on the previous page.

- If the balance setting has been previously adjusted, **BALANCE** will be displayed.

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

FADER:F25 to **FADER:R25** is displayed as the front/rear speaker balance moves from front to rear.

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

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

BALANCE:L25 to **BALANCE:R25** is displayed as the left/right speaker balance moves from left to right.

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. When used in conjunction with the SFC, the feature will make the sound image more natural and offer a panoramic sound that envelops you.

- When you make adjustments to the listening position, the speaker outputs are automatically set for appropriate levels. You can tailor the levels more precisely referring to *Adjusting the speaker output levels using a test tone* or *Adjusting the speaker output levels*.

1 Use MULTI-CONTROL to select POSI in the audio function menu.

Refer to *Introduction of DSP adjustments* on the previous page.

2 Press ◀/▶/▲/▼ to select a listening position.

Direction	Display	Position
◀	F/L	Front seat left
▶	F/R	Front seat right
▲	FRT	Front seats
▼	ALL	All seats

- To cancel the selected listening position, press the same button again.

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 48 kHz sampling rate stereo source and has no effect on other types of source.

1 Use MULTI-CONTROL to select PLII in the audio function menu.

Refer to *Introduction of DSP adjustments* on page 54.

2 Press ◀ or ▶ 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 for when FM radio reception is weak
- **OFF** – Turn Dolby Pro Logic II off
 - You can adjust the music mode only when **MUSIC** has been selected.

Adjusting the Music mode

You can adjust the Music mode with the following three controls.

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

1 Use MULTI-CONTROL to select PANO (adjusting music mode) in the audio function menu.

Refer to *Introduction of DSP adjustments* on page 54.

- You can adjust the music mode only when **MUSIC** has been selected.

2 Press ◀ or ▶ to select controls.

PANO (panorama)—**DIME** (dimension)—**CENTER** (center width)

3 Press ▶ to select PANO and then press ▲ to turn the panorama control on.

- To turn the panorama control off, press ▼.

4 Press ▶ to select DIME and then ▲ or ▼ to adjust front/rear speaker balance.

+3 to -3 is displayed as the front/rear speaker balance moves from front to surrounds.

5 Press ▶ to select CENTER and then ▲ or ▼ to adjust the center image.

Each time ▲ or ▼ is pressed it gradually spreads the center channel sound into the front left and right speakers over a range **0** to **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.

Using the sound field control

The SFC function creates the sensation of a live performance.

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

Available accessories

1 Use MULTI-CONTROL to select OFF (sound field control) in the audio function menu.

Refer to *Introduction of DSP adjustments* on page 54.

2 Press ◀ or ▶ to select the desired SFC mode.

MUSICAL (musical)—**DRAMA** (drama)—**ACTION** (action)—**JAZZ** (jazz)—**HALL** (hall)—**CLUB** (club)—**OFF** (off)



Note

If the source is a 2-channel LPCM audio or a 2-channel Dolby Digital audio and you select SFC effects that are most applicable for 5.1-channel audio (i.e., **MUSICAL**, **DRAMA** or **ACTION**), we recommend turning Dolby Pro Logic II on. On the other hand, when selecting SFC effects that are intended for use with 2-channel audio (i.e., **JAZZ**, **HALL** or **CLUB**), we recommend turning Dolby Pro Logic II off.

Using the down-mix function

The down-mix function allows you to play back multi-channel audio in 2 channels.

1 Use MULTI-CONTROL to select Lo/Ro (down mix) in the audio function menu.

Refer to *Introduction of DSP adjustments* on page 54.

2 Press ◀ or ▶ to switch the down mix settings.

- **Lt/Rt** – Down mix so that the surround components can be restored (decoded).
- **Lo/Ro** – Stereo mix the original audio that do not contain channel modes such as surround components.

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.

1 Use MULTI-CONTROL to select DRC in the audio function menu.

Refer to *Introduction of DSP adjustments* on page 54.

- When playing other than the DVD disc, you cannot switch to **DRC**.

2 Press ▲ to turn the dynamic range control on.

- To turn dynamic range control off, press ▼.

Using the direct control

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

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

1 Use MULTI-CONTROL to select DIRECT in the audio function menu.

Refer to *Introduction of DSP adjustments* on page 54.

2 Press ▲ to turn the direct control on.

- To turn direct control off, press ▼.

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 volume level, which remains unchanged.

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

2 Use MULTI-CONTROL to select SLA in the audio function menu.

Refer to *Introduction of DSP adjustments* on page 54.

Available accessories

3 Press ▲ or ▼ to adjust the source volume.

Each time **MULTI-CONTROL** is pushed up or down, source volume increases or decreases. **+4** to **-4** is displayed as the source volume is increased or decreased.



Notes

- The AM volume level can also be adjusted with source level adjustments.
- Video CD, CD, compressed audio and DivX 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.

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 this page).

You can turn the auto-equalizer on or off.

1 Use **MULTI-CONTROL** to select **AUTO EQ** in the audio function menu.

Refer to *Introduction of DSP adjustments* on page 54.

- If auto TA and EQ have not been carried out, **SET A-EQ** is displayed instead of **AUTO EQ**.

2 Press ▲ to turn the auto-equalizer on. **ON** appears in the display.

- To turn auto-equalizer off, press ▼.

Auto TA and EQ (auto-time alignment and auto-equalizing)

The auto-time alignment is automatically adjusted for 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 outputted 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.

Available accessories

- 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.
- Auto TA and EQ changes the audio settings as below:
 - The fader/balance settings return to the center position. (Refer to page 55.)
 - The equalizer curve switches to **FLAT**. (Refer to page 63.)
 - When a subwoofer is connected to this unit, it will be adjusted automatically to both subwoofer output and high pass filter setting for rear speaker.
- If you carry out auto TA and EQ when a previous setting of this already exists, the setting will be replaced.

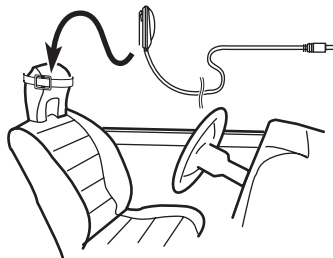
Carrying out auto TA and EQ

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 **SRC/OFF** 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 55.

- If no position is selected before you start auto TA and EQ, **F/L** is selected automatically.

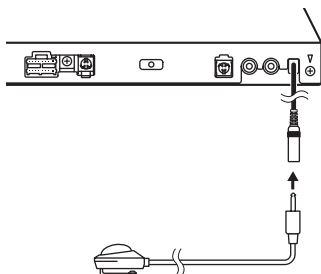
5 Press SRC/OFF and hold until the unit turns off.

6 Press and hold 1/S.Rtrv to enter the auto TA and EQ measurement mode.

- You can also perform this operation by pressing and holding **A.MENU** on the remote control.

Available accessories

- 7 Plug the microphone into the microphone input jack on the multi-channel processor.**



- 8 Press MULTI-CONTROL 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 outputted 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, press any keys.
- To cancel auto TA and EQ part way through, press **BAND/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 69.)

- 11 Press BAND/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 malfunction.

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

- Low frequency range is not output if the subwoofer is set to **OFF** and the front and rear speakers set to **SML** or **OFF**.
- It is imperative that non-installed speakers be set to **OFF**.
- Set the front or rear speaker to **LRG** if the speaker is capable of reproducing bass content, or if no subwoofer is installed.

- 1 Use MULTI-CONTROL to select FRONT (speaker setting) in the audio function menu.**

Refer to *Introduction of DSP adjustments* on page 54.

- 2 Press ◀ or ▶ to select the speaker to be adjusted.**

FRONT (front speakers)—**CENTER** (center speaker)—**REAR** (rear speakers)—**SUB.W** (subwoofer)—**PHASE** (subwoofer setting)

- You can switch to **PHASE** only when the subwoofer has been set to **ON**.

- 3 Press ▲ or ▼ to select the correct size for the selected speaker.**

OFF (off)—**SML** (small)—**LRG** (large)

- You cannot select **OFF**, when **FRONT** (front speakers) have been selected.
- You can select **ON** or **OFF**, when **SUB.W** (subwoofer) has been selected.
- You can switch **REV** (reverse phase) or **NOR** (normal phase), when **PHASE** (subwoofer setting) has been selected.

Available accessories

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 Use MULTI-CONTROL to select FRONT (speaker setting) in the audio function menu.

Refer to *Introduction of DSP adjustments* on page 54.

2 Press ◀ or ▶ to select SUB.W.

FRONT (front speakers)—**CENTER** (center speaker)—**REAR** (rear speakers)—**SUB.W** (subwoofer)—**PHASE** (subwoofer setting)

3 Press ▲ to turn the subwoofer output on.

4 Press ▶ to select PHASE (subwoofer setting).

5 Press ▲ or ▼ to select the phase of subwoofer output.

Press ▲ to select **NOR** (normal phase). Press ▼ to select **REV** (reverse phase).



Note

When playing a 2-channel mono source with Dolby Pro Logic II turned on, there may be occasions when the following will occur:

- No audio is outputted if the center speaker setting is **SML** or **LRG** and no center speaker is installed.
- Audio is heard only over the center speaker if installed and the center speaker setting is **SML** or **LRG**.

Selecting a cross-over 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 **SML**, you can select a frequency, under which sounds are reproduced through a **LRG** speaker or subwoofer.

1 Use MULTI-CONTROL to select HPF in the audio function menu.

Refer to *Introduction of DSP adjustments* on page 54.

2 Press ◀ or ▶ to select the speaker to be adjusted.

F (front speakers)—**C** (center speaker)—**R** (rear speakers)—**SW** (subwoofer)

3 Press ▲ or ▼ to select cross-over frequency for the selected speaker.

63—80—100—125—160—200 (Hz)



Note

Selecting a cross-over frequency is to set a cross-over frequency of the subwoofer's L.P.F. (low-pass filter) and that of the **SML** speaker H.P.F. (high-pass filter). The cross-over frequency setting has no effect if the subwoofer is set to **OFF** and other speakers are set to **LRG** or **OFF**.

Adjusting the speaker output levels

Speaker level can be adjusted finely by listening to an audio output. First, use test tone to adjust the approximate speaker level, and then use this function to adjust finely.

1 Use MULTI-CONTROL to select FRONT-L (speaker output level) in the audio function menu.

Refer to *Introduction of DSP adjustments* on page 54.

2 Press ◀ or ▶ to select the speaker to be adjusted.

FRONT-L (front speaker left)—**CENTER** (center speaker)—**FRONT-R** (front speaker right)—**REAR-R** (rear speaker right)—**REAR-L** (rear speaker left)—**SUB.W** (subwoofer)

Available accessories

■ You cannot select speakers whose size is set to **OFF**. (Refer to *Setting the speaker setting* on page 60.)

3 Press ▲ or ▼ to adjust the speaker output level.

+10 to -10 is displayed as the level is increased or decreased.



Note

To adjust the speaker output levels in 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

This function allows you to easily get the overall balance right among the speakers.

1 Use MULTI-CONTROL to select TEST TONE in the audio function menu.

Refer to *Introduction of DSP adjustments* on page 54.

2 Press ► to start the test tone output.

The test tone is outputted. 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-L (front speaker left)—**CENTER** (center speaker)—**FRONT-R** (front speaker right)—**REAR-R** (rear speaker right)—**REAR-L** (rear speaker left)—**SUB.W** (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 to **OFF**. (Refer to *Setting the speaker setting* on page 60.)

3 Press ▲ or ▼ to adjust the speaker output level.

+10 to -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 Press ◀ to stop the test tone output.

5 Press BAND/ESC to return to the ordinary display.



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 in this mode is the same as making the speaker output levels at **FRONT-L** (speaker output 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 Use MULTI-CONTROL to select INITIAL (time alignment mode) in the audio function menu.

Refer to *Introduction of DSP adjustments* on page 54.

2 Press ◀ or ► 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 page 58.)
- **CUSTOM** – Adjusted time alignment that you can create for yourself
- **TA:OFF** – Turn the time alignment off
 - If auto TA and EQ have not been carried out, **SET A-TA** is displayed instead of **AUTO TA**.

Available accessories

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 Use MULTI-CONTROL to select FL (time alignment adjustment) in the audio function menu.

Refer to *Introduction of DSP adjustments* on page 54.

- When you select **TA:OFF** in **INITIAL**, you cannot select **FL**.
- If a position other than **F/L** or **F/R** is selected, **CHECK POS1** is displayed. To set the position, refer to *Using the position selector* on page 55.

2 Press ◀ or ▶ to select the speaker to be adjusted.

FL (front speaker left)—**C** (center speaker)—**FR** (front speaker right)—**RR** (rear speaker right)—**RL** (rear speaker left)—**SW** (subwoofer)

- You cannot select speakers whose size is set to **OFF**. (Refer to *Setting the speaker setting* on page 60.)

3 Press ▲ or ▼ to adjust the distance between the selected speaker and the listening position.

0.0 (cm) to **500.0** (cm) is displayed as the distance is increased or decreased.

4 Press BAND/ESC to return to the ordinary display.

Using the equalizer

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

Recalling equalizer curves

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

Display	Equalizer curve
POWERFUL	Powerful
NATURAL	Natural
VOCAL	Vocal
EQ FLAT	Flat
CUSTOM1	Custom 1
CUSTOM2	Custom 2
SUPER-BASS	Super bass

- **CUSTOM1** and **CUSTOM2** 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.

1 Use MULTI-CONTROL to select POWERFUL (equalizer recall) in the audio function menu.

Refer to *Introduction of DSP adjustments* on page 54.

2 Press ◀ or ▶ to select the equalizer. POWERFUL—NATURAL—VOCAL—FLAT—CUSTOM1—CUSTOM2—SUPER-BASS

Adjusting 3-band parametric equalizer

For **CUSTOM1** and **CUSTOM2** equalizer curves, 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.
- A **CUSTOM2** curve can be created common to all sources.

Available accessories

- 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 Use MULTI-CONTROL to select PEQ (3-band parametric equalizer) in the audio function menu.

Refer to *Introduction of DSP adjustments* on page 54.

- Adjusted **PEQ** settings are memorized in **CUSTOM1** in the audio function menu.

2 Press ◀ or ▶ to select the desired item. **PEQ FRONT** (speakers)—**FRONT:LOW** (bands)—**F LOW : 80** (center frequency)—**F LOW : 0** (equalizer level)—**LOW 0:WIDE** (Q factor)

3 Press ▶ to select the speakers setting and then ▲ or ▼ to select the speaker to be adjusted.

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

- You cannot select speakers whose size is set to **OFF**. (Refer to *Setting the speaker setting* on page 60.)

4 Press ▶ to select the band setting and then press ▲ or ▼ to select the equalizer band to be adjusted.

LOW (low)—**MID** (mid)—**HI** (high)

5 Press ▶ to select the center frequency setting and then press ▲ or ▼ to select the center frequency of selected band.

40—50—63—80—100—125—160—200—250—315—400—500—630—800—1K—1.2K—1.6KHZ—2K—2.5K—3.1K—4K—5K—6.3K—8K—10K—12.K (Hz)

6 Press ▶ to select the equalizer level setting and then press ▲ or ▼ to adjust the equalizer level.

+6 to -6 is displayed as the level is increased or decreased.

7 Press ▶ to select the Q factor setting and then press ▲ or ▼ to select the desired Q factor.

WID (wide)—**NAR** (narrow)

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

8 Press BAND/ESC to return to the ordinary display.




Note

You can select a center frequency 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. ■

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 a fuse with the same rating.
	Noise and other factors are causing the built-in microprocessor to operate incorrectly.	Turn the unit off and then on.
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 12)
	Battery power is low.	Load new battery. (Page 7)
	Some operations are prohibited with certain discs.	Check by using another disc.
Playback is not possible.	The disc is dirty.	Clean disc. (Page 70)
	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 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 stopping playback once, start playback once more.
There is no sound. Volume level is low.	The volume level is low.	Adjust the volume level.
	The attenuator is on.	Turn the attenuator off.
There is audio and video skipping.	The unit is not firmly secured.	Secure the 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 40)
When the ignition switch is turned ON (or turned to ACC), the motor sounds.	The unit is confirming whether a disc is loaded or not.	This is a normal operation.

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 5)

Additional Information

A parental lock message is displayed and playback is not possible.	Parental lock is on.	Turn parental lock off or change the level. (Page 41)
Parental lock cannot be canceled.	The code number is incorrect. You have forgotten your code number.	Input the correct code number. (Page 41) Press CLEAR 10 times to cancel the code number. (Page 42)
Dialog language (and subtitle language) cannot be switched.	The DVD playing does not feature multiple language recordings. You can only switch between items indicated in the disc menu.	You cannot switch among multiple languages if they are not recorded on the disc. Switch using the disc menu.
No subtitles are displayed.	The DVD playing does not feature subtitles. You can only switch between items indicated in the disc menu.	Subtitles are not displayed if they are not recorded on the disc. Switch using the disc menu.
Playback is not with the audio language and subtitle language settings selected in SETUP	The DVD playing does not feature dialog or subtitles in the language selected in SETUP	Switching to a selected language is not possible if the language selected in SETUP is not recorded on the disc.
Switching the viewing angle is not possible.	The DVD playing does not feature scenes shot from multiple angles. You are trying to switch to multiple angle viewing of a scene that is not recorded from multiple angles.	You cannot switch between multiple angles if the DVD does not feature scenes recorded from multiple angles. Switch between multiple angles when watching scenes recorded from multiple angles.
The picture is extremely unclear/distorted and dark during playback.	The disc features a signal to prohibit copying. (Some discs may have this.)	Since this 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
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.
Repeat play and track/time search are not possible.	The Video CD playing features PBC.	This operation is not possible with Video CDs featuring PBC.

Problems during iPod playback

Symptom	Cause	Action
iPod doesn't operate correctly.	Cables are incorrectly connected. The iPod version is old.	Disconnect the cable from iPod. Once iPod main menu is displayed, connect the cable again. Reset the iPod. Update the iPod version.

Additional Information

Problems during multi-channel processor connection

Symptom	Cause	Action (See)
No sounds are heard. The volume level will not rise.	Optical cables are not connected correctly.	Connect the cables correctly.
Even if multi-channel audio is selected, 2-channel audio is output.	Digital output setting is set to Linear PCM .	Normally, set the digital output setting to STREAM . (Page 42)



Error messages

When you contact your dealer or your nearest Pioneer Service Center, be sure to have the error message recorded.

Built-in DVD player

Message	Cause	Action
REGION ERR (DIFFERENT REGION DISC)	The disc does not have the same region number as this unit	Replace the DVD video with one bearing the correct region number.
ERROR-02-XX	Dirty disc	Clean disc.
	Scratched disc	Replace disc.
	The disc is loaded upside down	Check that the disc is loaded correctly.
	Electrical or mechanical	Press RESET .
NON-PLAY (UNPLAYABLE DISC)	This type of disc cannot be played by this unit	Replace the disc with one this unit can play.
	The inserted disc does not contain any files that can be played back	Replace disc.
PROTECT (NO ACCESSIBLE DATA AVAILABLE)	All the files on the inserted disc are secured by DRM	Replace disc.
SKIPPED (FILE SKIPPED)	The inserted disc contains WMA files that are protected by DRM	Replace disc.
HEAT (THERMAL PROTECTION IN MOTION)	The temperature of this unit is outside the normal operating range	Wait until the unit's temperature returns to within normal operating limits.
EXPIRED (Rental Expired)	The inserted disc that contains expired DivX VOD content.	Replace disc.
NON-PLAY (FILE NOT PLAYABLE-HIGH DEF)	The inserted disc contains high definition DivX file.	This unit cannot play DivX HD file. Replace the disc with one this unit can play.
WRITE FAIL (CAN NOT SAVE DATA)	This unit's flash memory used for temporary storage area is full.	Select the playable file.
ERROR (AUTHORIZATION ERROR)	This unit's DivX registration code has not been authorized by DivX VOD contents provider.	Register this unit to DivX VOD contents provider. (Page 42)

Additional Information

USB audio player/USB memory

Message	Cause	Action
NON-PLAY (UNPLAYABLE FILE)	No songs	Transfer the audio files to the USB portable audio player/USB memory and connect.
	USB memory with security enabled is connected	Follow the USB memory instructions to disable the security.
	This type of file cannot be played by this unit.	Select the playable file.
SKIPPED (FILE SKIPPED)	The connected USB portable audio player/USB memory contains WMA files that are protected by Windows Media™ DRM 9/10	Play an audio file not protected by Windows Media DRM 9/10.
PROTECT (NO ACCESSIBLE DATA AVAILABLE)	All the files on the connected USB portable audio player/USB memory are protected by Windows Media DRM 9/10	Transfer audio files not protected by Windows Media DRM 9/10 to the USB portable audio player/USB memory and connect.
N/A USB (INCOMPATIBLE DEVICE)	The USB device connected to is not supported by this unit.	Connect a USB portable audio player or USB memory that is USB Mass Storage Class compliant.
	USB device is not formatted with FAT16 or FAT32	USB device should be formatted with FAT16 or FAT32.
CHECK USB	The USB connector or USB cable is short-circuited.	Confirm that the USB connector or USB cable is not caught in something or damaged.
	The connected USB portable audio player/USB memory consumes more than 500 mA (maximum allowable current).	Disconnect the USB portable audio player/USB memory and do not use it. Turn the ignition switch to OFF, then to ACC or ON and then connect the compliant USB portable audio player/USB memory.
ERROR-02-DX	Communication failure	Perform one of the following operations. –Turn the ignition switch OFF and back ON. –Disconnect the USB portable audio player/USB memory. –Change to a different source. Then, return to the USB portable audio player/USB memory.

iPod

Message	Cause	Action
ERROR-02-6X	Communication failure	Disconnect the cable from iPod. Once iPod main menu is displayed, connect the cable again. Reset the iPod.
	iPod failure	Reset the iPod.
ERROR-02-67	Old version of iPod	Update the iPod version.
STOP	No songs	Transfer the songs to iPod.
	No songs in the current list	Select a list that contains the songs.



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, 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-MIC	Microphone is not connected.	Plug the supplied microphone securely into the jack.
ERROR-FSP, ERROR-FLSP, ERROR-FRSP, ERROR-CSP, ERROR-RSP, ERROR-RLSP, ERROR-RRSP, ERROR-SW	The microphone cannot pick up the measuring tone of a 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-NOIS	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

Handling guideline of discs and player

- Use only discs featuring any of following logos.

DVD video



Video CD



CD



- 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 warping 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) 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 a disc, wipe the disc with a soft cloth outward from the center.



- If the heater is used in cold weather, condensation 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 it 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.
- It is not possible to play back DVD-ROM/ DVD-RAM discs. ■

DVD-R/DVD-RW discs

- Unfinalized DVD-R/-RW discs which have been recorded with the Video format (video mode) cannot be played back.


Additional Information

- It may not be possible to play back DVD-R/DVD-RW discs, because of disc characteristics, scratches or dirt on the disc, or dirt, condensation, etc. on the lens of this unit.
- 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.)
- DVD-R/RW discs which have been recorded with the Video Recording format (VR mode) can be played back. However, unfinalized disc may not be played back. Unplayable disc should be finalized. In addition, finalized DVD-R DL (Dual Layer) disc cannot be recorded/edited.
- DVD-R DL (Dual Layer) discs which have been recorded with the Video Recording format (VR mode) can be played back. However, this unit is not compatible with Layer Jump recording mode.
- For more information about recording mode, please contact manufacture of DVD recorder or application.
- The following logo indicates that this unit is compatible with DVD-RW discs which have been recorded with the Video Recording format (VR mode).


RW
COMPATIBLE



AVCHD recorded discs

- This unit is not compatible with discs recorded in AVCHD (Advanced Video Codec High Definition) format. Do not insert AVCHD discs. If inserted, the disc may not be ejected. 


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.
- 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 vehicle.
- 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)).
- Read the precautions with CD-R/CD-RW discs before using them. 

Dual Discs

- Dual Discs are two-sided discs that have a recordable CD for audio on one side and a recordable DVD for video on the other.
- Playback of the DVD side is possible with this unit. However, since the CD side of Dual Discs is not physically compatible with the general CD standard, it may not be possible to play the CD side with this unit.
- Frequent loading and ejecting of a Dual Disc may result in scratches on the disc. Serious scratches can lead to playback problems on this unit. In some cases, a Dual Disc may become stuck in the disc loading slot and will not eject. To prevent this, we recommend you refrain from using Dual Disc with this unit.

Additional Information

- Please refer to the information from the disc manufacturer for more detailed information about Dual Discs. 

Compressed audio compatibility


WMA

- Compatible format: WMA encoded by Windows Media Player
- File extension: .wma
- Bit rate: 5 kbps to 320 kbps (CBR), VBR
- Sampling frequency: 8 kHz to 48 kHz
- Windows Media Audio 9 Professional, Lossless, Voice: No

MP3

- File extension: .mp3
- Bit rate: 8 kbps to 320 kbps (CBR), VBR
- Sampling frequency: 8 kHz to 48 kHz (32, 44.1, 48 kHz for emphasis)
- Compatible ID3 tag version: 1.0, 1.1, 2.2, 2.3, 2.4 (ID3 tag Version 2.x is given priority than Version 1.x.)
- M3u playlist: No
- MP3i (MP3 interactive), mp3 PRO: No

AAC

- Compatible format: AAC encoded by iTunes
- File extension: .m4a
- Bit rate: 8 kbps to 320 kbps
- Sampling frequency: 8 kHz to 44.1 kHz
- Transmission rate: 16 kbps to 320 kbps
- Apple Lossless: No 

Handling guideline and supplemental information

- There may be a slight delay when starting playback of audio files encoded with image data.
- Only 32 characters from beginning can be displayed as a file name (including the file extension) or a folder name.

- The text information of some audio files may not be correctly displayed.
- This unit may not operate correctly depending on the application used to encode WMA files.

Compressed audio files on the disc

- ISO 9660 Level 1 and 2 compliant. Romeo and Joliet file systems are both compatible with this player.
- Multi-session playback is possible.
- Compressed audio files are not compatible with packet write data transfer.
- Regardless of the length of blank section between the songs of original recording, compressed audio discs play with a short pause between songs.

USB audio player/USB memory



CAUTION

Pioneer accepts no responsibility for data lost on the USB memory/USB portable audio player even if that data is lost while using this unit.

- This unit can play back files in the USB portable audio player/USB memory that is USB Mass Storage Class. However, copyright protected files that are stored in above-mentioned USB devices cannot be played back.
- You cannot connect a USB portable audio player/USB memory to this unit via a USB hub.
- Partitioned USB memory is not compatible with this unit.
- Depending on the kind of USB portable audio player/USB memory you use, this unit may not recognize the USB audio player/USB memory or audio files may not be played back properly.

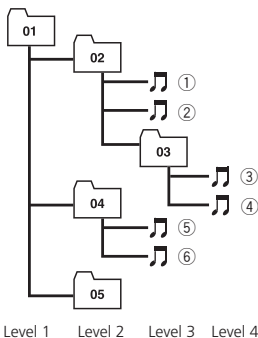
Additional Information

- Do not leave the USB portable audio player/USB memory in direct sunlight for extended amounts of time. Extended exposure to direct sunlight can result in USB portable audio player/USB memory malfunction due to the resulting high temperature.
- Do not leave the USB portable audio player/USB memory in high temperature.
- Firmly secure the USB portable audio player/USB memory when driving. Do not let the USB portable audio player/USB memory fall onto the floor, where it may become jammed under the brake or accelerator pedal.
- Depending on the USB devices connected to this unit, it may generate noise in the radio.
- There may be a slight delay when starting playback of audio files on a USB portable audio player/USB memory with numerous folder hierarchies.
- Do not connect anything other than the USB portable audio player/USB memory.
- Operations may vary depending on the kind of USB audio player and a USB memory.

Example of a hierarchy

 Folder

 Compressed audio file



The sequence of audio files on the disc

- This unit assigns folder numbers. The user cannot assign folder numbers.
- Folder selection sequence or other operation may be altered depending on the encoding or writing software.
- Up to 3 500 files on a DVD (-R/-RW) can be played back.
- Up to 999 files on a CD (-R/-RW) can be played back.
- Up to 700 folders on a disc can be played back.


The sequence of audio files on USB memory

For USB portable audio players, the sequence is different from that of USB memory and depends on the player.

- 01 to 05 represent assigned folder numbers. ① to ⑥ represent the playback sequence. The user cannot assign folder numbers and specify the playback sequence with this unit.
 - Playback sequence of the audio file is the same as recorded sequence in the USB device.
 - To specify the playback sequence, the following method is recommended.
 - 1 Create the file name including numbers that specify the playback sequence (e.g., 001xxx.mp3 and 099yyy.mp3).
 - 2 Put those files into a folder.
 - 3 Record the folder containing files into the USB device.
- However, depending on the system environment, you cannot specify the file playback sequence.
- Up to 65 535 files on a USB portable audio player/USB memory can be played back.
 - Up to 6 000 folders on a USB portable audio player/USB memory can be played back.

Additional Information

iPod compatibility

- This unit supports only the following iPods. Supported iPod software versions are shown below. Older versions of iPod software may not be supported.
 - iPod nano first generation (software version 1.3.1)
 - iPod nano second generation (software version 1.1.3)
 - iPod nano third generation (software version 1.1.2)
 - iPod fifth generation (software version 1.3.0)
 - iPod classic (software version 1.1.2)
 - iPod touch (software version 2.0)
 - iPhone 3G (software version 2.0)
- Depending on the generation or version of the iPod, some functions can not be operated.
- Operations may vary depending on the software version of iPod.
- When using an iPod, iPod Dock Connector to USB Cable is required.
- Pioneer CD-IU50 interface cable is also available. For details, consult your dealer.
- When using an iPod with video capabilities, the interface cable (e.g., CD-IU50V) is required. 


About handling the iPod

CAUTION

- Pioneer accepts no responsibility for data lost on the iPod even if that data is lost while using this unit.
- Do not leave the iPod in direct sunlight for extended amounts of time. Extended exposure to direct sunlight can result in iPod malfunction due to the resulting high temperature.
- Do not leave the iPod in a high temperature.
- Firmly secure the iPod when driving. Do not let the iPod fall onto the floor, where it may become jammed under the brake or accelerator pedal.

For details, refer to the iPod's manuals.


About iPod settings

- When an iPod is connected, this unit changes the EQ (equalizer) setting of the iPod to Flat in order to optimize the acoustics. When you disconnect the iPod, the EQ returns to the original setting.
- You cannot set Repeat to off on the iPod when using this unit. Even if you set Repeat to off on the iPod, Repeat is automatically changed to All when connecting the iPod to this unit. 

JPEG picture files

- JPEG is short for Joint Photographic Experts Group and refers to a still image compression technology standard.
- Files are compatible with Baseline JPEG and EXIF 2.1 still image up to resolution of 8 192 × 7 680. (EXIF format is used most commonly with digital still cameras.)
- EXIF format that processed by the personal computer may not be played back.
- There is no progressive JPEG compatibility.

Important

- When naming a JPEG picture file, add the corresponding filename extension (.jpg, .jpeg, .jpe or .jfif).
- This unit plays back files with the filename extension (.jpg, .jpeg, .jpe or .jfif) as a JPEG picture file. To prevent malfunctions, do not use these extensions for files other than JPEG picture files. 

DivX video files

- Depending on the file information composition such as the number of audio stream, there may be a slight delay in the start of playback on discs.

Additional Information

- Some special operation may be prohibited because of the composition of DivX files.
- DivX files downloaded only from DivX partner site are guarantee of proper operation. Unauthorized DivX file may not operate properly.
- DRM rental file cannot be operated until starting playing back.
- This unit corresponds to a DivX file display up to 1 590 minutes 43 seconds. Also, search operation beyond this time limit is prohibited.
- If a file contains more than 4 GB, playback is stopped on the way.
- DivX VOD file playback requires ID code of this unit to DivX VOD provider. About ID code, refer to *Displaying your DivX® VOD registration code* on page 42.
- For more details about DivX, visit the following site:
<http://www.divx.com/>

DivX compatibility

- Compatible format: DivX video format implemented in relation to DivX standards
- File extensions: .avi or .divx
- DivX Ultra format: No
- DivX HD format: No
- DivX files without video data: No
- Compatible audio codec: MP2, MP3, Dolby Digital
- LPCM: No
- Bit rate: 8 kbps to 320 kbps (CBR), VBR
- Sampling frequency: 8 kHz to 48 kHz
- Compatible external subtitle file extension: .srt

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	Samoa (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

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DVD video



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WMA



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MP3

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Additional Information

Dolby Pro Logic II



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DTS Digital Out



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Additional Information

Terms

AAC

AAC is short for Advanced Audio Coding and refers to an audio compression technology standard used with MPEG 2 and MPEG 4.

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 (bits per second) units. 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.

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.

DivX

DivX is a popular media technology created by DivX, Inc. DivX media files contain highly compressed video with high visual quality that maintains a relatively small file size. DivX files can also include advanced media features like menus, subtitles, and alternate audio tracks. Many DivX media files are available for download online, and you can create your own using your personal content and easy-to-use tools from DivX.com.

DivX Certified

DivX Certified products are officially tested by the creators of DivX and guaranteed to play all versions of DivX video, including DivX 6.

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-bandwidth 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.

EXIF (Exchangeable image file)

A file format developed by Fuji Photo Film for digital still cameras. Digital cameras from various manufacturers use this compressed file format which carries date, time and thumbnail information, as well as the picture data.

ID3 tag

This is a method of embedding track-related information in an 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 as to the number of characters, the information can be viewed when the track is played back.

Additional Information

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:

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.

JPEG

This stands for Joint Photographic Experts Group, and is an international still image compression standard.

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.

MS ADPCM

This stands for Microsoft adaptive differential pulse code modulation, which is the signal recording system used for the multimedia software of Microsoft Corporation.

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 on one disc.

Multi-subtitle

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

Number of quantization bits

The number of quantization bits is one factor in the overall sound quality; the higher the “bit-depth”, the better the sound quality. However, increasing the bit-depth also increases the amount of data and therefore storage space required.

Additional Information

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-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 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.

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 by flexibly adjusting the bit rate according to the needs of audio compression, it is possible to achieve compression-priority sound quality.

WMA

WMA is short for Windows Media™ Audio and refers to an audio compression technology that is developed by Microsoft Corporation. WMA data can be encoded by using Windows Media Player version 7 or later.

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Additional Information

Specifications

General

Rated power source	14.4 V DC (allowable voltage range: 12.0 V to 14.4 V DC)
Grounding system	Negative type
Max. current consumption	10.0 A
Dimensions (W × H × D): DIN	
Chassis	178 mm × 50 mm × 163 mm
Nose	188 mm × 58 mm × 21 mm
D	
Chassis	178 mm × 50 mm × 163 mm
Nose	170 mm × 46 mm × 21 mm
Weight	1.3 kg

Audio

Maximum power output	50 W × 4
Continuous power output	22 W × 4 (50 Hz to 15 000 Hz, 5 % THD, 4 Ω load, both channels driven)
Load impedance	4 Ω (4 Ω to 8 Ω allowable)
Preout max output level	2.0 V
Tone controls:	
Bass	
Frequency	100 Hz
Gain	±12 dB
Mid	
Frequency	1 kHz
Gain	±12 dB
Treble	
Frequency	10 kHz
Gain	±12 dB

DVD Player

System	DVD video, DVD-VR, Video CD, CD, WMA, MP3, AAC, DivX, JPEG system
Region number:	
for Middle East Asian and South African models	2
for Southeast Asian models	3
for South American and Oceanian models	4
Usable discs	DVD video, Video CD, CD, CD-R/RW, DVD-R/RW/RDL
Frequency response	5 Hz to 44 000 Hz (with DVD, at sampling frequency 96 kHz)

Signal-to-noise ratio	96 dB (1 kHz) (IEC-A network) (RCA level)
Number of channels	2 (stereo)
MP3 decoding format	MPEG-1 & 2 Audio Layer 3
WMA decoding format	Ver. 7, 7.1, 8, 9, 10, 11 (2ch audio) (Windows Media Player)
AAC decoding format	MPEG-4 AAC (iTunes encoded only) (.m4a) (Ver. 8.0 and earlier)
DivX decoding format	Home Theater Ver. 3, 4, 5.2 (.avi, .divx)

USB

USB standard specification	USB 2.0 full speed
Maximum current supply	500 mA
File system	FAT16, FAT32
MP3 decoding format	MPEG-1 & 2 Audio Layer 3
WMA decoding format	Ver. 7, 7.1, 8, 9, 10, 11 (2ch audio) (Windows Media Player)
AAC decoding format	MPEG-4 AAC (iTunes encoded only) (.m4a) (Ver. 8.0 and earlier)

FM tuner

Frequency range	87.5 MHz to 108.0 MHz
Usable sensitivity	9 dBf (0.7 μV/75 Ω mono, S/N: 30 dB)
Signal-to-noise ratio	72 dB (IEC-A network)

AM tuner


Frequency range	531 kHz to 1 602 kHz (9 kHz) 530 kHz to 1 640 kHz (10 kHz)
Usable sensitivity	25 μV (S/N: 20 dB)
Signal-to-noise ratio	62 dB (IEC-A network)

Infrared remote control

Wavelength	945 nm
Output	typ; 10 mw/sr per Infrared LED



Note

Specifications and the design are subject to modifications without notice due to improvements. 

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