

# Operation Manual

DVD RECEIVER

# DVH-P6050UB

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

---

*English*

## Thank you for buying this Pioneer product.

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



### Be sure to read this

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## 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 it is a visible distraction 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.
- If this unit does not operate properly, contact your dealer or nearest authorized Pioneer Service Station.

## Playable discs

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

### DVD video




### Video CD



### CD



### Notes

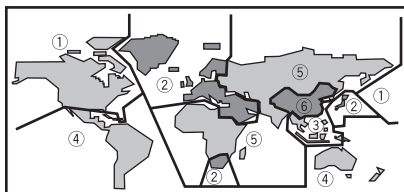
-  is a trademark of DVD Format/Logo Licensing Corporation.
- This player can only play back discs bearing the marks shown above.

## Before You Start


### DVD video disc region numbers

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

The illustration below shows the regions and corresponding region numbers.




### 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 81.)

#### Video CDs featuring PBC compatibility

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

#### WMA, MP3 and AAC compatibility

Refer to *Compressed audio compatibility* on page 85.

#### DivX® video compatibility

Refer to *DivX compatibility* on page 86.

#### 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.

- Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic", and the double-D symbol are trademarks of Dolby Laboratories.



## Before You Start

- Manufactured under license under U.S. Patent #: 5,451,942 & other U.S. and worldwide patents issued & pending. DTS and DTS Digital Out are registered trademarks and the DTS logos and Symbol are trademarks of DTS, Inc. © 1996-2007 DTS, Inc. All Rights Reserved.



### Portable audio player compatibility

- Inquire at 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, AAC and WAV file playback
- For details about the compatibility, refer to *USB audio player/USB memory compatibility* on page 82.

### iPod® compatibility

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

- This unit supports only the following iPods. Supported iPod software versions are shown below. Older versions of iPod software may not be supported.
  - iPod fifth generation (software version 1.2.1)
  - iPod nano first generation (software version 1.3.1)
  - iPod nano second generation (software version 1.1.3)
  - iPod nano third generation (software version 1.0.2)
  - iPod classic (software version 1.0.2)
  - iPod touch (software version 1.1.1)

For maximum performance, we recommend that you use the latest version of the iPod software.

- 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.
- This unit can control previous generations iPod models with a Pioneer iPod adapter (e.g. CD-IB100II).  
For details concerning operation with the iPod adapter, refer to *Playing songs on iPod* on page 56.
- iPod is a trademark of Apple Inc., registered in the U.S. and other countries.

### CAUTION

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

### Note

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

## Before You Start

### About WMA



The Windows Media™ logo printed on the box indicates that this unit can play back WMA data.

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.

- Windows Media and the Windows logo are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.
- This unit may not operate correctly depending on the application used to encode WMA files.

### About MP3

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

### About AAC

This unit plays back AAC files encoded by iTunes®.


- iTunes is a trademark of Apple Inc., registered in the U.S. and other countries.

### 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

- DivX, DivX Certified, and associated logos are trademarks of DivX, Inc. and are used under license. 


### What the marks on DVDs indicate



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

Mark	Meaning
	Indicates the number of audio systems.
	Indicates the number of subtitle languages.
	Indicates the number of viewing angles.

Mark	Meaning
16 : 9 LB	Indicates the picture size (aspect ratio: screen width-to-height ratio) type.
	Indicates the number of the region where playback is possible.

## When an operation is prohibited

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

- The icon  may not appear with certain discs. 

## Protecting your unit from theft

The front panel can be detached to deter theft.

- If the front panel is not detached from the head unit within five seconds of turning off the ignition, a warning tone sounds.
- You can turn off the warning tone. See *Switching the warning tone* on page 49.

### Important

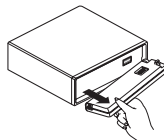
- Handle gently when removing or attaching the front panel.
- Avoid subjecting the front panel to excessive shock.
- Keep the front panel out of direct sunlight and high temperatures.

## Removing the front panel

- Press OPEN to open the front panel.

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

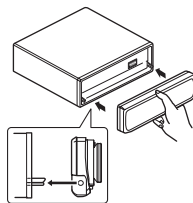
Take care not to grip it too tightly or to drop the front panel and protect it from contact with water or other fluids to prevent permanent damage.



- 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.



## Resetting the microprocessor

The microprocessor must be reset under the following conditions:

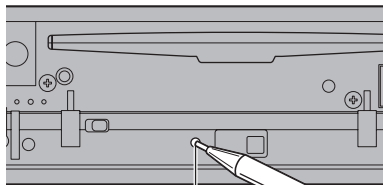
- Prior to using this unit for the first time after installation
- If the unit fails to operate properly
- When strange or incorrect messages appear on the display

- Remove the front panel.

Refer to *Removing the front panel* on this page.

## Before You Start

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



RESET button

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

- 4 Turn the ignition to ACC or ON and wait for a few seconds.**

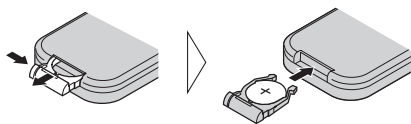
Resetting of the microprocessor is now completed.

## 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.
- 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.

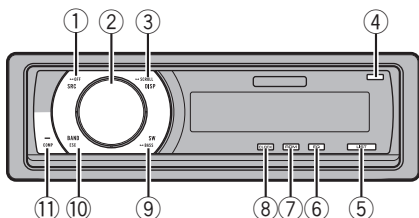
### Using the remote control

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.



## What's What

### Head unit

#### ① SOURCE/OFF button

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

#### ② MULTI-CONTROL

Move to perform manual seek tuning, fast forward, reverse and track search controls. Also used for controlling functions. Turn to increase or decrease the volume.

#### ③ DISPLAY/SCROLL button

Press to select different displays. Press and hold to scroll through the text information.

#### ④ OPEN button

Press to open the front panel.

#### ⑤ LIST button

Press to display the disc title list, track title list, folder list or file list depending on the source.

- This button is not effective when tuner is selected as a source.

#### ⑥ EQ button

Press to select various equalizer curves.

#### ⑦ RDM/⌂/iPod button

Press to turn random function on or off while using CD or USB.

While using an iPod, press to shuffle all tracks.

Press and hold to switch the control mode while using an iPod.

If using the iPod with an interface adapter (CD-IB100II), press to switch the shuffle function.

#### ⑧ CLOCK/DISP OFF button

Press to change to the clock display.

Press and hold to turn the display indication and button illumination off or on.

- Lights up when the display is turned off.

#### ⑨ SW/BASS button

Press to switch to subwoofer setting menu. When operating subwoofer menu, press to switch menu.

Press and hold to switch to bass boost menu.

#### ⑩ BAND/ESC button

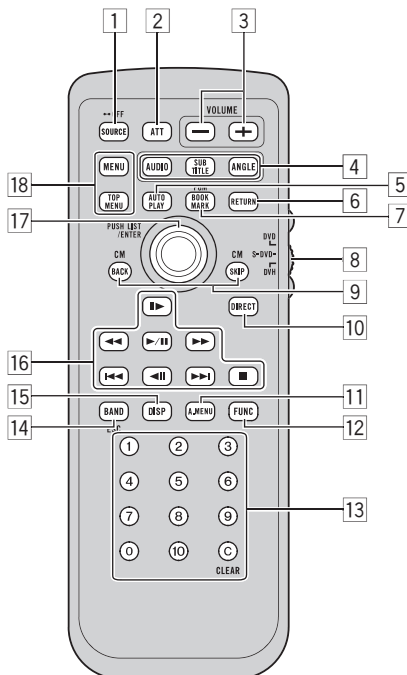
Press to select among three FM bands and one AM band.

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

#### ⑪ COMP button

Press to turn COMP (compression) and DBE function on or off.

# Operating this unit



## Remote control

	Button names	DVH mode	DVD and S-DVD mode
1	<b>SOURCE</b> button	Press to cycle through all the available sources. Press and hold to turn the source off.	
2	<b>ATT</b> button	Press to quickly lower the volume level by about 90%. Press once more to return to the original volume level.	
3	<b>VOLUME</b> buttons	Press to increase or decrease the volume.	
4	<b>AUDIO</b> button	Press to change the audio language during DVD playback.	
	<b>SUBTITLE</b> button	Press to change the subtitle language during DVD playback.	
	<b>ANGLE</b> button	Press to change the viewing angle during DVD playback.	
5	<b>AUTO PLAY</b> button	Press to turn the DVD auto-playback function on or off.	
6	<b>RETURN</b> button	Press to display the PBC (playback control) menu during PBC playback.	
7	<b>BOOKMARK</b> button	Press to operate the preprogrammed functions for each source. (Refer to <i>Using the PGM button</i> on page 54.)	Press to turn the bookmark function on or off. For details, refer to <i>Resume playback (Bookmark)</i> on page 22.

## Operating this unit

	Button names	DVH mode	DVD and S-DVD mode
8	Remote control operation mode switch	Switch the operation mode between <b>DVD</b> , <b>S-DVD</b> and <b>DVH</b> modes. Normally, set to <b>DVH</b> . For details, refer to <i>Using the remote control operation mode switch</i> on the next page.	
9	<b>CM BACK/CM SKIP</b> buttons	Press to skip progressively backward/forward through the video playing.	
10	<b>DIRECT</b> button	Press to select channels directly.	Not used.
11	<b>A.MENU</b> button	Press to select various sound quality controls.	
12	<b>FUNCTION</b> button	Press to select functions.	
13	<b>0 to 10</b> buttons, <b>CLEAR</b> button	Press <b>0</b> to <b>9</b> to input numbers. Buttons <b>1</b> to <b>6</b> can operate the preset tuning for the tuner or disc changing for multi-DVD or multi-CD players. Press <b>CLEAR</b> to clear the input numbers.	Press to select a menu item on a video CD featuring PBC (playback control).
14	<b>BAND</b> 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 21.)
15	<b>DISPLAY</b> 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 on the head unit.	
16	<b>PLAY/PAUSE</b> (▶/⏸) button	Press to switch sequentially between playback and pause.	
	<b>REVERSE</b> (◀◀) button	Press to perform fast reverse.	
	<b>FORWARD</b> (▶▶) button	Press to perform fast forward.	
	<b>PREVIOUS</b> (◀◀) button	Press to return to the previous track (chapter).	
	<b>NEXT</b> (▶▶) button	Press to go to the next track (chapter).	
	<b>STEP</b> (⏮/⏭) 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 <b>⏭</b> while displaying a still image to switch to the next image or video.	
	<b>STOP</b> (■) button	Not used.	Press to stop playback.
17	Move the thumb pad	Functions are the same as <b>MULTI-CONTROL</b> 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 disc title list, track title list, folder list or file list depending on the source.	Click to select a menu on the DVD menu.
18	<b>MENU</b> button	Press to display the DVD menu during DVD playback.	
	<b>TOP MENU</b> button	Press to return to the top menu during DVD playback.	

## Operating this unit

### 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.

### 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:

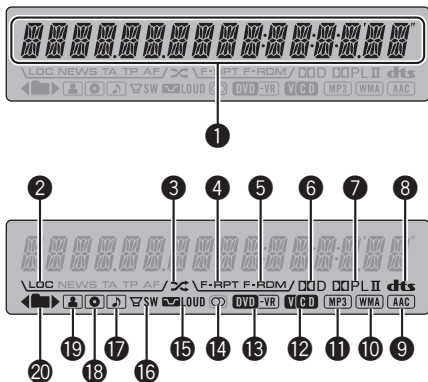
- When operating the DVD menu by using the thumb pad. (Refer to *Operating the DVD menu* on page 21.)
- When operating the PBC menu by using **0** to **10**. (Refer to *PBC playback* on page 21.)
- When specifying title or track by using **0** to **10**. (Refer to *Specifying title* on page 23 and *Specifying track* on page 23.)
- When operating the DVD setup menu by using the thumb pad. (Refer to *Setting up the DVD player* on page 43.)

### S-DVD mode operation

Set to **S-DVD** mode if the separately sold DVD player or multi-DVD player is controlled by this remote control.

**S-DVD** mode operations are basically the same as **DVD** mode operations.

## Operating this unit



### 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  
Elapsed playback time and literal information are displayed.

#### 2 LOC indicator

Appears when local seek tuning is on.

#### 3 (shuffle) indicator

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

#### 4 F-RPT indicator

Appears when folder repeat is on.  
When repeat function is on, only **RPT** is displayed.

#### 5 F-RDM indicator

Appears when folder random is on.  
When random function is on, only **RDM** is displayed.

#### 6 (Dolby Digital) indicator

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

#### 7 (Dolby Pro Logic II) indicator

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

#### 8 (DTS) indicator

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

#### 9 (AAC) indicator

Appears when an AAC file is playing.

#### 10 (WMA) indicator

Appears when a WMA file is playing.

#### 11 (MP3) indicator

Appears when an MP3 file is playing.

#### 12 (Video CD) indicator

Appears when a video CD is playing.  
When a CD is playing, only **CD** is displayed.

#### 13 (DVD-VR) indicator

Appears when a DVD-VR disc is playing.  
When a DVD video is playing, only **DVD** is displayed.

#### 14 (stereo) indicator

Appears when the selected frequency is being broadcast in stereo.

#### 15 (loudness) indicator

Appears when loudness is on.

#### 16 (subwoofer) indicator

Appears when subwoofer is on.

## Operating this unit

### 17 (song) indicator

Appears when the track (song) name is displayed on the main display section.

Appears when song search refinement on the iPod browsing function is in use.

### 18 (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.

### 19 (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.

### 20 (folder) indicator

Appears when operating list function.

When an upper tier folder or menu exists, ◀ appears.

When a lower tier folder or menu exists, ▶ appears. ◻

## Basic Operations

### Power ON/OFF

#### Turning the unit on

- Press **SOURCE** to turn the unit on.

#### Turning the unit off

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

### Selecting a source

- Press **SOURCE** repeatedly to switch between the following sources.

**TUNER** (tuner)—**TELEVISION** (television)—**AV** (AV)—**DVD** (built-in DVD player)—**S-DVD** (DVD player/multi-DVD player)—**MULTI CD** (multi-CD player)—**IPOD** (iPod)—**USB** (USB)—**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 49).
- AUX1 is set to **AUDIO** by default. Set the AUX1 to **OFF** when not in use (refer to *Switching the auxiliary setting* on page 49).
- 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) to this unit, auto-antenna cannot be controlled.)

## Adjusting the volume

- **Use MULTI-CONTROL to adjust the sound level.**

With the head unit, turn **MULTI-CONTROL** to increase or decrease the volume.

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

## Tuner

### Basic Operations

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

- **Select a band**

Press **BAND**.

- Band can be selected from among **FM1**, **FM2**, **FM3** or **AM**.

- **Manual tuning (step by step)**

Push **MULTI-CONTROL** left or right.

- **Seek tuning**

Push and hold **MULTI-CONTROL** left or right, and then release.

- You can cancel seek tuning by pushing **MULTI-CONTROL** left or right.
- While pushing and holding **MULTI-CONTROL** left or right, you can skip stations. Seek tuning starts as soon as you release **MULTI-CONTROL**.

### Storing and recalling broadcast frequencies

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

- Only the remote control can operate this function.
- 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 to 6 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.

## Operating this unit

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 pushing **MULTI-CONTROL** up or down 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.

The function menu is displayed.

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

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

- You can also select the function by pressing **FUNCTION** on the remote control.
- If you do not operate functions within about 30 seconds, the display automatically returns to the ordinary display.
- To return to the ordinary display, press **BAND**.

### 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** to **6**.

**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 turn local seek tuning on.**

- To turn local seek tuning off, press **MULTI-CONTROL** again.

**3 Push MULTI-CONTROL left or right to set the sensitivity.**

FM: **LEVEL1—LEVEL2—LEVEL3—LEVEL4**

AM: **LEVEL1—LEVEL2**

The **LEVEL4** setting allows reception of only the strongest stations, while lower settings let you receive progressively weaker stations. 

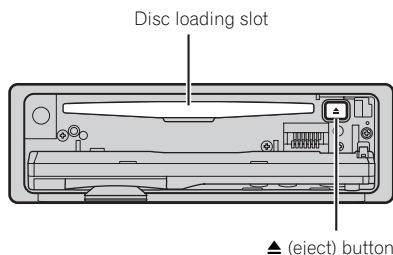
## Built-in DVD player

### Basic Operations

#### ● Open the front panel

Press **OPEN**.

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 25.

- 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 the next page.

#### ● Eject a disc

Press ▲ (eject).

#### ● Select a title/folder

Push **MULTI-CONTROL** up or down.

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

#### ● Select a chapter/track/file

Push **MULTI-CONTROL** left or right.

- 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 forward or reverse

Push and hold **MULTI-CONTROL** left or right.

- When DVD, DivX disc or Video CD is playing, if you push and hold **MULTI-CONTROL** left or right for five seconds, the icon **◀◀** or **▶▶** is highlighted. When this happens, fast reverse/fast forward continues even if you release **MULTI-CONTROL**. 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.

- When playing compressed audio, there is no sound on fast forward or reverse.

#### ● Return to root folder

Press and hold **BAND**.

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

#### Notes







- Read the precautions for discs and player on *Handling guideline of discs and player* on page 81.
- A disc has already been inserted, press **SOURCE** 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 22.
- 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, **FORMAT READ** is displayed.
- 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.

## Operating this unit


- 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 78.

### 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.
	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.
	Skips to the next track, chapter or file.

### 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 CD-R/RW/ROM discs.
  - Audio data (CD-DA)

- Compressed audio files

- DivX video files

- In case of DVD-R/RW/ROM, this unit does not allow playback of audio data (CD-DA).

- **Press BAND 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 **MENU** or **TOP MENU** while a disc is playing. Pressing either of these buttons again lets you start playback from the location selected from the menu. For details, refer to the instructions provided with the disc.
- The way to display the menu differs depending on the disc.

- 1 Use the thumb pad to select the desired menu option.**

- 2 Click the thumb pad.**



Playback starts from the selected menu item.

### 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 cancelled.
- 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), **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 registration code, refer to *Displaying your DivX® VOD registration code* on page 46.
- 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 ►►I.
- 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.

**CM skip**

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

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.

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

- This function is available for DVD video.

## Operating this unit

- **During playback, press 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 **BOOKMARK** during playback.
- 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.



#### 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 AUDIO during playback.

The audio selection icon  is displayed for eight seconds.

### 2 Press AUDIO while the audio selection icon is displayed.

The audio changes each time you press **AUDIO**.

#### Notes


- 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 43.
- 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 **5.1ch** indicate the audio system recorded on the DVD. Depending on the setting, playback may not be with the same audio system as that indicated.
- Pressing **AUDIO** during fast forward/fast reverse, pause or slow motion playback returns you to normal playback.

## Changing the subtitle language during playback (Multi-subtitle)

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

- This function is available for DVD and DivX disc.

### 1 Press SUBTITLE during playback.

The subtitle selection icon  is displayed for eight seconds.

### 2 Press SUBTITLE while the subtitle selection icon is displayed.


The subtitle language changes each time you press **SUBTITLE**.

#### Notes

- 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 43.
- Pressing **SUBTITLE** 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 44.

## Operating this unit

### 1 Press ANGLE during playback of a scene shot from multiple angles.

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

### 2 Press ANGLE while the angle icon and angle number are displayed.

The angle changes each time you press **ANGLE**.

#### Note

Pressing **ANGLE** 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.

**AUTO PLAY:ON** is displayed.

- To turn automatic playback off, press **AUTO PLAY** again.
- When the automatic playback is on, you cannot operate repeating play of DVD disc (refer to *Repeating play* on page 28).

## Displaying text information

When the separately sold display is connected to this unit, the information of currently playing disc will appear on it.

Text information recorded on a disc can be displayed. Text information is displayed on variable message area.

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

### ● Press **DISPLAY** to select the desired text information.

#### For title entered CD

Play time—**DISC TITLE** (disc title)

#### For CD TEXT discs

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

**DISC ARTIST** (disc artist name)—

**TRACK TITLE** (track title)—**TRACK ARTIST**

(track artist name)

#### For WMA/MP3/AAC discs

Play time—**ALBUM TITLE** (album title)—

**TRACK TITLE** (track title)—**FOLDER NAME**

(folder name)—**FILE NAME** (file name)—

**ARTIST NAME** (artist name)



### Notes

- You can scroll to the left of the title by pressing and holding **DISPLAY**.
- 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 Windows Media Player used to encode WMA files, album names and other text information may not be correctly displayed.
- 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 51.

## 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 pushing **MULTI-CONTROL** up or down.
- To return to the ordinary display, press **BAND** 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 disc and DivX disc.

### 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.

## Operating this unit

- You can also change the name of a file or folder by pushing **MULTI-CONTROL** up or down.
- You can also play the file by pushing **MULTI-CONTROL** right.
- You can also play a song in the selected folder by pushing and holding **MULTI-CONTROL** right.
  - To return to the previous list (the folder one level higher), push **MULTI-CONTROL** left.
  - To return to the ordinary display, press **BAND** 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 pushing **MULTI-CONTROL** up or down.
- To return to the ordinary display, press **BAND** 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)—**COMPRESSION** (compression)

##### For DVD-VR discs

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

##### For DivX discs

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

##### For CD-DA discs

**REPEAT** (repeat play)—**RANDOM** (random play)—**SCAN** (scan play)—**PAUSE** (pause)—**SEARCH** (search method)—**COMPRESSION** (compression)—**TITLE INPUT** (disc title input)

##### For compressed audio discs and CD TEXT discs

**REPEAT** (repeat play)—**RANDOM** (random play)—**SCAN** (scan play)—**PAUSE** (pause)—**SEARCH** (search method)—**COMPRESSION** (compression)

- You can also select the function by pressing **FUNCTION** on the remote control.
- To return to the ordinary display, press **BAND**.
- During PBC (Playback Control) playback, you cannot select **REPEAT**.
  - If you do not operate functions except for **TITLE INPUT** within about 30 seconds, the display automatically returns to the ordinary display.

## Repeating play

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).

- During playback of Video CDs featuring PBC (playback control), this function cannot be operated.

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

Refer to *Introduction to advanced operations* on the previous page.

### 2 Press MULTI-CONTROL 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

▪ You cannot operate repeating play when

**DVD AUTO PLAY** is on (refer to *Automatic playback of DVDs* on page 25).

### Notes

- 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 in random order

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

Refer to *Repeating play* on this page.

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

### ● Press RDM to turn random play on.

Tracks play in a random order.

- To turn random play off, press **RDM** 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 *Repeating play* on this page.

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

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

Refer to *Introduction to advanced operations* on the previous page.

## Operating this unit

### 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 47.)

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

Refer to *Introduction to advanced operations* on page 27.

### 2 Press MULTI-CONTROL to select the desired setting.

This switches you to the selected setting.

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



#### 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

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

Refer to *Introduction to advanced operations* on page 27.

### 2 Press MULTI-CONTROL to turn pause on.

Playback of the current track pauses.

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

## Searching every 10 tracks in the current disc or folder

You can switch the search method between fast forward/reverse and searching every 10 tracks. Selecting **ROUGH** enables you to search every 10 tracks.

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

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

### 2 Press MULTI-CONTROL to select ROUGH.

- **FF/REV** – Fast forward and reverse
- **ROUGH** – Searching every 10 tracks
- To select **FF/REV**, press **MULTI-CONTROL** again.

### 3 Press BAND to return to the ordinary display.

### 4 Push and hold MULTI-CONTROL left or right to search every 10 tracks on a disc (folder).

- If the rest of track number is less than 10, pushing and holding **MULTI-CONTROL** recalls the first (last) one.

## Using compression

Using the COMP (compression) function let you adjust the sound quality of disc.

- Press **COMP** repeatedly to select the desired setting.

**OFF—COMP1—COMP2**



### Note

You can also select setting in the menu that appears by using **MULTI-CONTROL**.

## Using disc title functions

You can input CD titles and display the title. The next time you insert a CD for which you have entered a title, the title of that CD is displayed.

- This function is available for CD.

## Entering disc titles

Use the disc title input feature to store up to 48 CD titles in the unit. Each title can be up to 10 characters long.

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

**2 Use MULTI-CONTROL to select TITLE INPUT in the function menu.**

Refer to *Introduction to advanced operations* on page 27.

**3 Push MULTI-CONTROL up or down to select a letter of the alphabet.**

**4 Push MULTI-CONTROL left or right to move the cursor to the previous or next character position.**

**5 Move the cursor to the last position by pushing MULTI-CONTROL right after entering the title.**

When you push **MULTI-CONTROL** right one more time, the entered title is stored in memory.

**6 Press BAND to return to the ordinary display.**



### Notes

- Titles remain in memory, even after the disc is removed from the unit, and are recalled when the disc is reinserted.
- After data for 48 discs are stored in the memory, data for a new disc overwrites the oldest one.
- If you connect a multi-CD player, you can input disc titles for up to 100 discs.
- When a multi-CD player that does not support disc title functions is connected, you cannot enter disc titles in this unit.

## 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 the playlist mode in the function menu.**

Refer to *Introduction to advanced operations* on page 27.

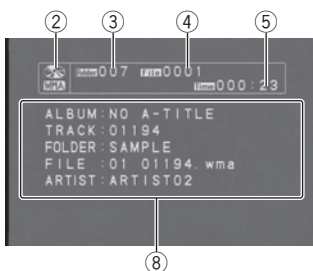
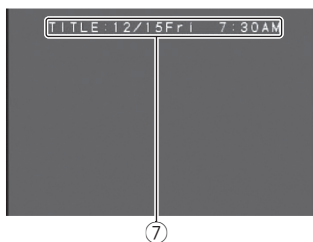
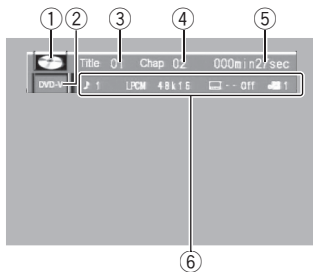
**2 Press MULTI-CONTROL to switch the play mode.**

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

## Operating this unit

### Switching the information display

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



- 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 and DivX: shows the folder currently playing.
- ④ Chapter/track/file number indicator

DVD: shows the chapter currently playing.

Video CD and CD: shows the track currently playing.

Compressed audio 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.

DivX: shows the audio system, subtitle setting and repeat range.

CD, compressed audio: shows the repeat range, random setting and scan setting.

- ⑦ Title display

Shows the name of the currently playing title.

- ⑧ Text information

Shows the text information of currently playing disc.

— For CD TEXT discs

**D.TITLE** (disc title), **D.ARTIST** (disc artist name), **T.TITLE** (track title), **T.ARTIST** (track artist name)

— For WMA/MP3/AAC discs

**ALBUM** (album title), **TRACK** (track title), **FOLDER** (folder name), **FILE** (file name), **ARTIST** (artist name)

- **Press DISPLAY to switch the information display.**

Press **DISPLAY** repeatedly to switch between the following display modes:

#### For DVD video

Information display 1—Information display 2  
—Normal playback display

#### For DVD-VR discs

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

#### For Video CDs


Information display—Normal playback display

**For DivX discs**

Information display—Title display—Normal playback display

**For compressed audio discs and CD TEXT discs**

Information display—Title display

- 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.
- While playing back CD or compressed audio, pressing **DISPLAY** changes the text information on this unit. During the text information is displaying on this unit, title display is shown on the separately sold display. 

**Playing songs on USB portable audio player/USB memory**

*For details about the supported device, refer to Portable audio player compatibility on page 8.*

**Basic Operations**● **Select a folder**

Push **MULTI-CONTROL** up or down.

- You cannot select a folder that does not have a compressed audio file recorded in it.

● **Fast forward or reverse**

Push and hold **MULTI-CONTROL** left or right.

● **Select a track**

Push **MULTI-CONTROL** left or right.

● **Return to root folder**

Press and hold **BAND**.

**Notes**

- Optimum performance of this unit may not be obtained depending on the connected USB portable audio player/USB memory.
- 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.
- You can disconnect the USB portable audio player/USB memory anytime you want to finish listening to it.
- If USB portable audio player/USB memory is connected to this unit, the source is changed to USB automatically. If you do not use an USB device, disconnect it from this unit. Depending on the connected USB device, turning on the ignition switch while USB device is connected to this unit may change the source automatically.
- If an error message is displayed, refer to *Error messages* on page 78.

## Operating this unit

### Selecting an audio 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 23.

### Displaying text information

*When the separately sold display is connected to this unit, the information of currently playing disc will appear on it.*

Text information recorded on a compressed audio can be displayed.

#### ● Press **DISPLAY** to select the desired text information.

##### For WMA/MP3/AAC

Play time—**ALBUM TITLE** (album title)—**TRACK TITLE** (track title)—**FOLDER NAME** (folder name)—**FILE NAME** (file name)—**ARTIST NAME** (artist name)

##### For WAV

Play time—**FOLDER NAME** (folder name)—**FILE NAME** (file name)

- If the characters recorded on the audio file are not compatible with this unit, those characters will not be displayed.
- If specific information is not recorded on an audio file, **NO XXXX** will be displayed (e.g., **NO ARTIST NAME**).
- The text information of some audio files may not be correctly displayed.

#### Notes

- You can scroll the text information to the left by pressing and holding **DISPLAY**.
- 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 51.

### 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 26.

### 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.

The function menu is displayed.

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

**REPEAT** (repeat play)—**RANDOM** (random play)—**SCAN** (scan play)—**PAUSE** (pause)

- You can also select the function by pressing **FUNCTION** on the remote control.
- To return to the ordinary display, press **BAND**.
- If you do not operate functions 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	<p>Refer to <i>Repeating play</i> on page 28. 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:</p> <ul style="list-style-type: none"> <li>• <b>TRACK</b> – Repeat just the current file</li> <li>• <b>FOLDER</b> – Repeat the current folder</li> <li>• <b>ALL</b> – Repeat all files</li> </ul>
RANDOM	Refer to <i>Playing tracks in random order</i> on page 28.
SCAN	Refer to <i>Scanning folders and tracks</i> on page 28.
PAUSE	Refer to <i>Pausing playback</i> on page 29.




### Notes

- 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.

## 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 31.

- Unlike MP3 and WMA file format, WAV files display only folder name and file name. 



## Playing songs on iPod

For details about the supported iPod, refer to iPod® compatibility on page 8.

### Basic Operations

#### ● Fast forward or reverse

Push and hold **MULTI-CONTROL** left or right.

#### ● Select a track (chapter)

Push **MULTI-CONTROL** left or right.



### Notes

- When using an iPod, iPod Dock Connector to USB Cable is required.
- Read the precautions for iPod on page 84.
- While iPod is connected to this unit, **PIONEER** (or ✓ (check mark)) is displayed on the iPod.
- If an error message is displayed, refer to *Error messages* on page 78.
- When the ignition switch is set to ACC or ON, the iPod's battery is charged while the iPod is connected to this unit.
- While the iPod is connected to this unit, the iPod cannot be turned on or off.
- 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

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

### Searching songs by category

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

## Operating this unit

- 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.

### 1 Press LIST.

### 2 Use MULTI-CONTROL to select a category.

Turn to change the category; press to select.

**PLAYLISTS** (playlists)—**ARTISTS** (artists)—**ALBUMS** (albums)—**SONGS** (songs)—**PODCASTS** (podcasts)—**GENRES** (genres)—**COMPOSERS** (composers)—**AUDIOBOOKS** (audiobooks)

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 pushing and holding **MULTI-CONTROL** right.
  - You can also change the category by pushing **MULTI-CONTROL** up or down.
  - You can also select the category by pushing **MULTI-CONTROL** right.
    - To return to the previous category, push **MULTI-CONTROL** left.
    - To return to the top tier of categories, push and hold **MULTI-CONTROL** left.
    - To return to the ordinary display, press **BAND**.
    - If you do not operate the list within about 30 seconds, the display automatically returns to the ordinary display.

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

## Searching songs by alphabet

### 1 Press LIST.

### 2 Use MULTI-CONTROL to select a category.

Turn to change the category. Press to select.

### 3 Press LIST to switch to alphabet search mode.

### 4 Turn MULTI-CONTROL to select a desired alphabet.

### 5 Press MULTI-CONTROL to display the alphabetical list.

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

## Displaying text information on iPod

### ● Press DISPLAY to select the desired text information.

Play time—**SONG TITLE** (song title)—

**ARTIST NAME** (artist name)—**ALBUM TITLE** (album title)

- If the characters recorded on the iPod are not compatible with this unit, those characters are not displayed.
- If specific information is not recorded on the iPod, **NO XXXX** will be displayed (e.g., **NO ARTIST NAME**).



### Notes

- You can scroll the text information to the left by pressing and holding **DISPLAY**.
- 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 51.

## 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.

The function menu is displayed.

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

**REPEAT** (repeat play)—**SHUFFLE** (shuffle)—**SHUFFLE ALL** (shuffle all)—**LINK SEARCH** (link search)—**CONTROL** (control mode)—**PAUSE** (pause)—**AUDIOBOOKS** (audiobook speed)

- You can also select the function by pressing **FUNCTION** on the remote control.
- To return to the ordinary display, press **BAND**.
- If you do not operate functions within about 30 seconds, the display automatically returns to the ordinary display.

## Function and operation

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

Function name	Operation
<b>REPEAT</b>	Refer to <i>Repeating play</i> on page 28. However, the repeat play ranges you can select are different from that of the built-in DVD player. The repeat play ranges of the iPod are: <ul style="list-style-type: none"> <li>• <b>ONE</b> – Repeat the current song</li> <li>• <b>ALL</b> – Repeat all songs in the selected list</li> </ul>
<b>PAUSE</b>	Refer to <i>Pausing playback</i> on page 29.



### Notes

- You can also select the function by pressing **FUNCTION** on the remote control.
- To return to the ordinary display, press **BAND**.
- If you do not operate functions within about 30 seconds, the display automatically returns to the ordinary display.

## Playing songs in a random order (shuffle)


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

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

**2 Press MULTI-CONTROL to select your favorite 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.

## Playing all songs in a random order (shuffle all)

● Press  to turn shuffle all on.

All songs 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**.

## Operating this unit

### Selecting songs from album list of currently playing artist

Album list of the currently selected artist is displayed. You can select an album or song from the artist name.

- Depending on the number of files in the iPod, there may be a delay when displaying a list.

#### 1 Press and hold LIST to turn link search on.

Searches albums of the artist and displays the list.

#### 2 Use MULTI-CONTROL to select an album or song from the list.

For more details about the selecting operation, refer to step 2 of *Searching songs by category* on page 34.

#### Notes

- If link search is aborted, **NOT FOUND** is displayed.
- 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 (software version 1.3.1)

— iPod fifth generation (software version 1.2.1)

This unit's iPod function can be operated from your iPod. Sound can be heard from car's speaker, and operation can be conducted from your iPod.

- While this function is in use, even if the ignition key is turned off, iPod is not turned off. To turn off power, operate the iPod.

#### 1 Press iPod and hold to switch the control mode.

- Each pressing and holding iPod switches the control mode.
- While using this function, play time and titles are not displayed on this unit.
- Even if this function is performed, track up/down can be operated from this unit.
- While using this function, browse function cannot be operated from this unit.

#### 2 Operate the connected iPod to select a song and play.



#### Note

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

### Changing audiobook speed

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

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

Refer to *Introduction to advanced operations* on the previous page.

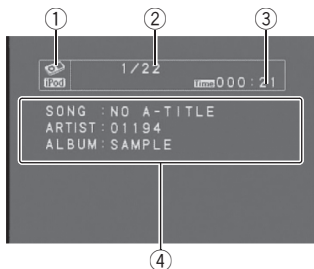
#### 2 Press MULTI-CONTROL to select your favorite setting.

Press **MULTI-CONTROL** repeatedly until the desired setting appears in the display.

- **FASTER** – Playback faster than normal speed
- **NORMAL** – Playback in normal speed
- **SLOWER** – Playback slower than normal speed

### Information display

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



- ① Source icon
  - ② Song number indicator
  - ③ Play time indicator
  - ④ Title display
- SONG** (song title), **ARTIST** (artist name),  
**ALBUM** (album title)

## 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.  
 The audio menu is displayed.

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

Turn **MULTI-CONTROL** to switch between the audio functions in the following order.

**FADER** (balance adjustment)—**PEQ** (equalizer recall)—**EQ-LOW** (equalizer adjustment)—**EQ-LOW** (equalizer fine adjustment)—**LOUDNESS** (loudness)—**SUB W1** (subwoofer on/off setting)—**SUB W2** (subwoofer setting)—**HPF** (high pass filter)—**BASS BOOST** (bass boost)—**SLA** (source level adjustment)

- You can also use **A.MENU** on the remote control to select an audio menu.
- You can select the **SUB W2** only when subwoofer output is turned on in **SUB W1**.
- When selecting FM as the source, you cannot switch to **SLA**.
  - To return to the display of each source, press **BAND**.
- If you do not operate the audio function 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.**  
 Refer to *Introduction of audio adjustments* on this page.

## Operating this unit

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

### 2 Push MULTI-CONTROL up or down to adjust front/rear speaker balance.

**FADER:F15** to **FADER:R15** is displayed as the front/rear speaker balance moves from front to rear.

- **FADER:F/R0** is the proper setting when only two speakers are used.
- When the rear output setting is **SUB W**, you cannot adjust front/rear speaker balance. Refer to *Setting the rear output and subwoofer controller* on page 50.

### 3 Push MULTI-CONTROL left or right to adjust left/right speaker balance.

**BALANCE:L15** to **BALANCE:R15** is displayed as the left/right speaker balance moves from left to right.

## 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 six stored equalizer curves which you can easily recall at any time. Here is a list of the equalizer curves.

Display	Equalizer curve
<b>POWERFUL</b>	Powerful
<b>NATURAL</b>	Natural
<b>VOCAL</b>	Vocal
<b>CUSTOM</b>	Custom
<b>FLAT</b>	Flat
<b>SUPER BASS</b>	Super bass

- **CUSTOM** is an adjusted equalizer curve that you create. If you make adjustments to

an equalizer curve, the equalizer curve setting is memorized in **CUSTOM**.

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

### ● Press EQ to select the equalizer.

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

**POWERFUL—NATURAL—VOCAL—CUSTOM—FLAT—SUPER BASS**



#### Note

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

### Adjusting equalizer curves

The factory supplied equalizer curves can be adjusted to a fine degree (nuance control).

### 1 Use MULTI-CONTROL to select EQ-LOW.

Equalizer band (e.g., **EQ-LOW : 0**) appears in the display.

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

- If the equalizer band has been previously selected, the band of that previously selected will be displayed instead of **EQ-LOW**.

### 2 Push MULTI-CONTROL left or right to select the equalizer band to adjust.

Each time **MULTI-CONTROL** is pushed left or right, equalizer bands are selected in the following order:

**EQ-LOW** (low)—**EQ-MID** (mid)—**EQ-HI** (high)

### 3 Push MULTI-CONTROL up or down to adjust the level of the equalizer band.

Each time **MULTI-CONTROL** is pushed up or down, the level of the equalization band increases or decreases.

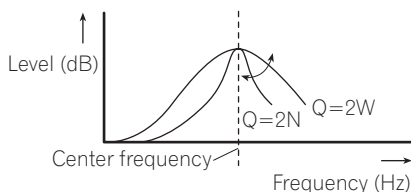
+6 to -6 is displayed as the level is increased or decreased.

- You can then select another band and adjust the level.

### Fine-adjusting equalizer curve

You can adjust the center frequency and the Q factor (curve characteristics) of each currently selected curve band (**EQ-LOW/EQ-MID/EQ-HI**).

- If you make adjustments, **CUSTOM** curve is updated.



#### 1 Use MULTI-CONTROL to select the equalizer band to adjust.

Refer to *Adjusting equalizer curves* on the previous page.

#### 2 Use MULTI-CONTROL to select EQ-LOW.

Frequency and the Q factor (e.g., **EQ-LOW 80HZ Q1W**) appears in the display. Refer to *Introduction of audio adjustments* on page 38.

#### 3 Push MULTI-CONTROL left or right to select the desired frequency.

Each time **MULTI-CONTROL** is pushed left or right, frequencies are selected in the following order:

Low: **40HZ—80HZ—100HZ—160HZ**  
 Mid: **200HZ—500HZ—1KHZ—2KHZ**  
 High: **3KHZ—8KHZ—10kHZ—12KHZ**

#### 4 Push MULTI-CONTROL up or down to select the desired Q factor.

Each time **MULTI-CONTROL** is pushed up or down, Q factor is selected in the following order:

**2W—1W—1N—2N**

### Adjusting loudness

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

#### 1 Use MULTI-CONTROL to select LOUDNESS.

Refer to *Introduction of audio adjustments* on page 38.

#### 2 Press MULTI-CONTROL to turn loudness on.

Loudness level (e.g., **MID**) appears in the display.

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

#### 3 Push MULTI-CONTROL left or right to select a desired level.

Each time **MULTI-CONTROL** is pushed left or right, level is selected in the following order: **LOW** (low)—**MID** (mid)—**HIGH** (high)

### Using subwoofer output

This unit is equipped with a subwoofer output which can be turned on or off.

Also, phase can be selected between normal and reverse.

#### 1 Press SW to select SUB W1.

Press **SW** repeatedly to switch between the subwoofer setting modes in the following order.

**SUB W1** (subwoofer on/off setting) setting mode—**SUB W2** (subwoofer setting) setting mode

## Operating this unit

### 2 Press MULTI-CONTROL to turn subwoofer output on.

**NORMAL** appears in the display. Subwoofer output is now on.

- If the subwoofer output phase has been set to the reverse, **REV** will be displayed.
- To turn subwoofer output off, press **MULTI-CONTROL** again.

### 3 Push MULTI-CONTROL left or right to select the phase of subwoofer output.

Push **MULTI-CONTROL** left to select reverse phase and **REV** appears in the display. Push **MULTI-CONTROL** right to select normal phase and **NORMAL** appears in the display.

#### Note

You can also switch to this setting mode in the menu that appears by using **MULTI-CONTROL**.

## Adjusting subwoofer settings

When the subwoofer output is on, you can adjust the cut-off frequency and the output level of the subwoofer.

- When the subwoofer output is on, you can select **SUB W2**.

#### 1 Press SW to select SUB W2.

Press **SW** repeatedly to switch between the subwoofer setting modes in the following order.

**SUB W1** (subwoofer on/off setting) setting mode—**SUB W2** (subwoofer setting) setting mode

#### 2 Push MULTI-CONTROL left or right to select cut-off frequency.

Each time **MULTI-CONTROL** is pushed left or right, cut-off frequencies are selected in the following order:

**50—63—80—100—125**

#### 3 Push MULTI-CONTROL up or down to adjust the output level of the subwoofer. +6 to -24 is displayed as the level is increased or decreased.



#### Note

You can also switch to this setting mode in the menu that appears by using **MULTI-CONTROL**.

## Using the high pass filter

When you do not want low sounds from the subwoofer output frequency range to play from the front or rear speakers, turn on the HPF (high pass filter). Only frequencies higher than those in the selected range are output from the front or rear speakers.

#### 1 Use MULTI-CONTROL to select HPF.

Refer to *Introduction of audio adjustments* on page 38.

#### 2 Press MULTI-CONTROL to turn high pass filter on.

**80HZ** appears in the display. High pass filter is now on.

- If the high pass filter has been previously adjusted, the frequency of that previously selected will be displayed instead of **80HZ**.

- To turn high pass filter off, press

**MULTI-CONTROL** again.

#### 3 Push MULTI-CONTROL left or right to select cut-off frequency.

Each time **MULTI-CONTROL** is pushed left or right, cut-off frequencies are selected in the following order:

**50HZ—63HZ—80HZ—100HZ—125HZ**

## Boosting the bass

Bass boost function boosts the bass level of sound.

## Operating this unit

**1 Press and hold BASS to switch to BASS BOOST.**

**2 Push MULTI-CONTROL up or down to select a desired level.**

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



### Note

You can also switch to this setting mode in the menu that appears by using **MULTI-CONTROL**.

## 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.

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

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

Refer to *Introduction of audio adjustments* on page 38.


**3 Push MULTI-CONTROL up or down 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. 

## Operating this unit

### 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. This menu can be operated only by using the remote control.

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

#### 1 Press ■.

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

The DVD setup menu is displayed.

#### 3 Move the thumb pad up or down to display the DVD setup function names.

Move the thumb pad up or down to switch the following DVD setup functions:

**SUBTITLE LANGUAGE** (subtitle language settings)—**AUDIO LANGUAGE** (audio language settings)—**MENU LANGUAGE** (menu language settings)—**ASSIST** (assist subtitle)—**ANGLE** (angle icon)—**TV ASPECT** (TV aspect)—**PARENTAL** (parental lock)—**DIVX VOD** (DivX VOD)—**DIVX SUBTITLE** (DivX subtitle)—**DIGITAL OUTPUT** (digital 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.

#### 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 LANGUAGE.

#### 2 Click the thumb pad.

A subtitle language menu is displayed.

#### 3 Move the thumb pad 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 24.)
- 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. Refer to *Language code chart for DVD* on page 87, use the number buttons to input the four digit code of the desired language, and then move the thumb pad right.

- 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 LANGUAGE.

#### 2 Click the thumb pad.

An audio language menu is displayed.

#### 3 Move the thumb pad left or right to select the desired audio language.

## Operating this unit

### 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 24.)
- 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 the previous 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 LANGUAGE.

### 2 Click the thumb pad.

A menu language menu is displayed.

### 3 Move the thumb pad 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 the previous page.

## Switching the assist subtitle on or off

If assist subtitles are recorded on a DVD disc, you can display them by turning the assist subtitle function on.

You can turn assist subtitles on or off as desired.

### 1 Move the thumb pad up or down to select ASSIST.

### 2 Click the thumb pad.

### 3 Move the thumb pad left or right to select on or off.

Each time you move the thumb pad left or right the selected setting switches on or off.

### 4 Click the thumb pad.

The assist subtitle is set on or off.

- 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.

### 2 Click the thumb pad.

### 3 Move the thumb pad left or right to select on or off.

Each time you move the thumb pad left or right the selected setting switches on or off.

### 4 Click the thumb pad.

Angle icon display is set on or off.

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

## Operating this unit

### 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 **PAN SCAN**. Selecting **16:9** may result in an unnatural picture.

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

**2 Click the thumb pad.**

TV aspect menu is displayed.

**3 Move the thumb pad left or right 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
- **PAN SCAN** – 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 **PAN SCAN**, playback is with **LETTER BOX** even if you select **PAN SCAN** setting. Confirm whether the disc package bears the  mark. (See page 9.)
- Some discs do not enable changing of the TV aspect. For details, refer to the disc's instructions.

### Setting the parental lock

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

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

**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 Move the cursor to the last position by moving the thumb pad right 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.**

- **LEVEL 8** – Playback of the entire disc is possible (initial setting)

## Operating this unit

- **LEVEL 7 to LEVEL 2** – Playback of discs for children and non-adult-oriented discs is possible
- **LEVEL 1** – 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.

### 2 Click the thumb pad.


Parental lock setting menu is displayed.

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

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

### 5 Move the cursor to the last position by moving the thumb pad right 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. Press **CLEAR** and 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

Refer to *Changing the level* on this page, and press **CLEAR** 10 times. The registered code number is canceled, letting you register a new one.

## 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.

### 2 Click the thumb pad.

Your 8-digit registration code is displayed.

- 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.

## Operating this unit

### 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**.

#### 2 Click the thumb pad.

#### 3 Move the thumb pad left or right to select on or off.

- **ON** – Display the DivX external subtitles
- **OFF** – Display the DivX subtitles

#### 4 Click the thumb pad.

DivX subtitle is set on or off.

- 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 29.)
  - Dual mono mode DVD video discs
  - Bilingual DVD-VR discs

#### 1 Move the thumb pad up or down to select **DIGITAL OUTPUT**.

#### 2 Click the thumb pad.


The digital output setting is displayed.

#### 3 Move the thumb pad left or right 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

#### 4 Click the thumb pad.

The selected digital output setting is determined.

- 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 **SOURCE** 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.

Turn **MULTI-CONTROL** to switch between the functions in the following order.

**CLOCK** (clock)—**FM STEP** (FM tuning step)—**AM STEP** (AM tuning step)—**WARNING** (warning tone)—**AUX1** (auxiliary input1)—**AUX2** (auxiliary input2)—**VIDEO IN** (AV input setting)—**CAMERA** (rear view camera setting)—**REAR SP** (rear output and subwoofer controller)—**EVERSCROLL** (ever scroll)—**TV SIGNAL** (TV signal setting)—**D.ATT** (digital attenuation)—**AUDIO RESET** (audio reset)

Use the following instructions to operate each particular setting.

- You can also select the function by pressing **FUNCTION** on the remote control.
- To cancel initial settings, press **BAND**.
- When you select **CAMERA** (rear view camera) in **VIDEO IN**, you can select **CAMERA** (rear view camera setting).
  - When the multi-channel processor (e.g., DEQ-P7650) is connected to this unit, you can operate **D.ATT** and **AUDIO RESET** instead of **REAR SP**.

### Setting the clock

Use these instructions to set the clock.

- 1 Use **MULTI-CONTROL** to select **CLOCK**. Refer to *Adjusting initial settings* on this page.
- 2 Push **MULTI-CONTROL** left or right to select the segment of the clock display you wish to set. Pushing **MULTI-CONTROL** left or right will select one segment of the clock display: Hour—Minute  
As you select segments of the clock display, the selected segment blinks.
- 3 Push **MULTI-CONTROL** up or down to put a clock right.

#### Note

You can match the clock to a time signal by pressing **MULTI-CONTROL**.

- If **00** to **29**, the minutes are rounded down. (e.g., **10:18** becomes **10:00**.)
- If **30** to **59**, the minutes are rounded up. (e.g., **10:36** becomes **11:00**.)

### 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**. Refer to *Adjusting initial settings* on this page.
- 2 Press **MULTI-CONTROL** to select the FM tuning step. Pressing **MULTI-CONTROL** repeatedly will switch the FM tuning step between 50 kHz and 100 kHz. The selected FM tuning step will appear in the display.

## Operating this unit

### 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.

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

#### 2 Press MULTI-CONTROL to select the AM tuning step.

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

### Switching the warning tone

If the front panel is not detached from the head unit within five seconds of turning off the ignition, a warning tone will sound. You can turn off the warning tone.

#### 1 Use MULTI-CONTROL to select WARNING.

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

#### 2 Press MULTI-CONTROL to turn warning tone on.

- To turn warning tone off, press **MULTI-CONTROL** again.

### 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 53.

### Switching the auxiliary 1 setting

#### 1 Use MULTI-CONTROL to select AUX1.

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

#### 2 Press MULTI-CONTROL to select desired setting.

- **VIDEO** – an iPod with video capabilities connected with 4-pole mini plug cable (e.g., CD-V150M)
- **AUDIO** – auxiliary device connected with stereo mini plug cable
- **OFF** – No auxiliary device is connected

### Switching the auxiliary 2 setting

#### 1 Use MULTI-CONTROL to select AUX2.

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

#### 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 **TV** to watch video of a TV tuner as **TELEVISION** source.
- Select **DVD** to watch video of a connected DVD player as **S-DVD** source.
- Select **EXT-V** to watch video of a connected video unit as **EXT** source.

## Operating this unit

- Select **AUX** to watch video of an auxiliary device as **AUX2** source.
- Select **CAMERA** to watch a rear view camera video while you are backing your vehicle.

### 1 Use MULTI-CONTROL to select VIDEO IN.

Refer to *Adjusting initial settings* on page 48.

### 2 Press MULTI-CONTROL to select desired setting.

- **OFF** – No video component connected
- **TV** – TV tuner
- **EXT-V** – External video unit (such as Pioneer products available in the future)
- **DVD** – DVD player/multi-DVD player
- **AUX** – Auxiliary device
- **CAMERA** – Rear view camera
  - To watch video of **AUX** source, set auxiliary 2 setting on. For details, refer to *Switching the auxiliary setting* on the previous page.
  - If AV system display (e.g., AVX-7650) is combined with this unit, connect the rear view camera to the AV system display. For details concerning connection methods, refer to AV system display's instruction manual. Also, **VIDEO IN** setting of this unit need not be **CAMERA**.

### Setting for rear view camera (back up camera)



#### CAUTION

Pioneer recommends the use of a camera which outputs mirror reversed images, otherwise screen image may appear reversed.

You can install a rear view camera onto the AV input and display a rear view camera video. When the gear shift is in **REVERSE (R)** position, the video automatically switches to a rear view camera video. (For more details, consult your dealer.)

- After you set up the rear view camera setting, move the gear shift in **REVERSE (R)** and confirm if a rear view camera video can be shown on the display.
- If the display should be switched to a rear view camera video by error while you are driving forward, change the rear view camera setting.
- When you select **CAMERA** (rear view camera) in **VIDEO IN**, you can select **CAMERA** (rear view camera setting).

### 1 Use MULTI-CONTROL to select CAMERA.

Refer to *Adjusting initial settings* on page 48.

### 2 Press MULTI-CONTROL to select an appropriate setting.

- **BATTERY** – When the polarity of the connected lead is positive while the gear shift is in **REVERSE (R)** position
- **GROUND** – When the polarity of the connected lead is negative while the gear shift is in **REVERSE (R)** position

## Setting the rear output and subwoofer controller

This unit's rear output (rear speaker leads output and RCA rear output) can be used for full-range speaker (**FULL**) or subwoofer (**SUB W**) connection. If you switch the rear output setting to **SUB W**, you can connect a rear speaker lead directly to a subwoofer without using an auxiliary amp.

- When the multi-channel processor (e.g., DEQ-P7650) is connected to this unit, you cannot operate this function.

### 1 Use MULTI-CONTROL to select REAR SP.

Refer to *Adjusting initial settings* on page 48.

## Operating this unit

### 2 Press MULTI-CONTROL to switch the rear output setting.

Pressing **MULTI-CONTROL** will switch between **FULL** (full-range speaker) and **SUB W** (subwoofer) and that status will be displayed.

- When no subwoofer is connected to the rear output, select **FULL** (full-range speaker).
- When a subwoofer is connected to the rear output, select **SUB W** (subwoofer).

### Notes

- Even if you change this setting, there is no output unless you turn the subwoofer output on (refer to *Using subwoofer output* on page 40).
- If you change this setting, subwoofer output in the audio menu return to the factory settings.
- Both rear speaker lead outputs and RCA rear output are switched simultaneously in this setting.

## 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 EVERSCROLL.

Refer to *Adjusting initial settings* on page 48.

### 2 Press MULTI-CONTROL to turn the ever scroll on.

- To turn the Ever Scroll off, press **MULTI-CONTROL** again.

## Setting the TV signal

When this unit is connected to a TV tuner, you need to adjust the TV signal suitable to your country TV signal setting.

- About your country TV signal, consult with your nearest Pioneer dealer.

### 1 Use MULTI-CONTROL to select TV SIGNAL.

Refer to *Adjusting initial settings* on page 48.

### 2 Press MULTI-CONTROL to select an appropriate TV signal. PAL—SECAM

## Correcting distorted sound

*Only when the multi-channel processor (e.g., DEQ-P7650) 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 D.ATT.

Refer to *Adjusting initial settings* on page 48.

### 2 Press MULTI-CONTROL to switch the digital attenuator setting.

- **HIGH** – High quality sound
- **LOW** – Minimize distortion sound

## Resetting the audio functions

*Only when the multi-channel processor (e.g., DEQ-P7650) 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 18)
- Listening position setting (refer to *Using the position selector* on page 65)
- Fader/balance setting (refer to *Using balance adjustment* on page 65)

- SLA (source level adjustment) setting (refer to *Adjusting source levels* on page 67)
- Dynamic range control (refer to *Using the dynamic range control* on page 67)
- Direct control setting (refer to *Using the direct control* on page 67)
- Down-mix setting (refer to *Using the down-mix function* on page 67)

### 1 Use **MULTI-CONTROL** to select **AUDIO RESET**.

Refer to *Adjusting initial settings* on page 48.

### 2 Press **MULTI-CONTROL** to display **OK**.

- To cancel resetting the audio functions, press **BAND**.

### 3 Push **MULTI-CONTROL** right to display **REALLY?**.

- To cancel resetting the audio functions, press **BAND**.

### 4 Press **MULTI-CONTROL** to reset audio functions.

**COMPLETE** appears in the display. 

## Other Functions

### Turning the clock display on or off

You can turn the clock display on or off.

#### ● Press **CLOCK** to turn the clock display on or off.

Each press of **CLOCK** 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.



#### Note

Even when the sources are off, the clock display appears on the display. Pressing **CLOCK** turns the clock display on or off.

### Switching the display indication and button illumination

Display indication and button illumination can be switched on or off.

#### ● Press and hold **DISP OFF**.

Pressing and holding **DISP OFF** switches the display indication and button illumination on or off.

- While the display indication is turned off, **CLOCK/DISP OFF** button lights up.
- Even if the display indication is turned off, operation can be conducted. If operation is conducted while the display indication is off, display will light up for a few seconds and then turn off again.

## Operating this unit

### 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 a mini plug cable*

- 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 the installation manual.

This auxiliary device is automatically set to **AUX1**.

#### AUX2 source:

*When connecting auxiliary device using an IP-BUS-RCA Interconnector (sold separately)*

#### ● Use an IP-BUS-RCA Interconnector such as the CD-RB20/CD-RB10 (sold separately) to connect this unit to auxiliary device featuring RCA output.

For more details, refer to the IP-BUS-RCA Interconnector owner's 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 SOURCE to select AUX (AUX1 or AUX2) as the source.

- If the auxiliary setting is not turned on, **AUX** cannot be selected. For more details, see *Switching the auxiliary setting* on page 49.

#### Setting the AUX title

The title displayed for the **AUX1** or **AUX2** source can be changed.

#### 1 After you have selected AUX as the source, use MULTI-CONTROL and select FUNCTION to display TITLE INPUT.

#### 2 Enter a title in the same way as the built-in DVD player.

For details concerning operation, refer to *Entering disc titles* on page 30.

### Switching between digital and analog

When this unit is connected to the DEQ-P7650, 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.

## Operating this unit

### 1 Press SOURCE to select AUX2 as the source.

Press **SOURCE** until **AUX2** appears in the display.

- If the auxiliary setting is not turned on, **AUX2** cannot be selected. For more details, see *Switching the auxiliary setting* on page 49.

### 2 Press BAND to switch the modes.

Press **BAND** repeatedly to switch between the following modes:

**ANALOG** (analog) — **DIGITAL** (digital)

## 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 **SOURCE** 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**.
- Press and hold **BAND**.

- Push **MULTI-CONTROL** left or right.

- Push and hold **MULTI-CONTROL** left or right.

- Push **MULTI-CONTROL** up or down.

### Using the functions allocated to 1 to 6 keys

- Press any of **1 to 6** on the remote control.

### 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.

**FUNC1** (function 1)—**FUNC2** (function 2)—**FUNC3** (function 3)—**FUNC4** (function 4)—**AUTO/MANU** (auto/manual)

- You can also select the function by pressing **FUNCTION** on the remote control.
- You can also turn **FUNC1** on or off by pressing **BOOKMARK** on the remote control.
- To return to the ordinary display, press **BAND**.

### Using the PGM button

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

- Press **BOOKMARK** to turn pause on when selecting the following sources:
  - **DVD** – Built-in DVD player
  - **S-DVD** – DVD player/multi-DVD player
  - **IPOD** – iPod

## Operating this unit

- **USB** – USB portable audio player/USB memory
- **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.

- **Press BOOKMARK and hold to turn BSSM on when selecting TELEVISION as the source.**


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

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

## Sound muting

Sound from this unit is muted automatically in the following cases:

- When a call is made or received using a cellular telephone connected to this unit.
- When the voice guidance is output from a Pioneer navigation unit connected to this unit.

The sound is turned off, **MUTE** is displayed and no audio adjustments, except volume control, are possible. Operation returns to normal when the phone connection or the voice guidance is ended. 

## Playing songs on iPod

### Basic Operations

You can use this unit to control an interface adapter for iPod, which is sold separately.

- **Fast forward or reverse**

Push and hold **MULTI-CONTROL** left or right.

- **Select a track**

Push **MULTI-CONTROL** left or right.



#### Note

If an error message is displayed, refer to the interface adapter for iPod owner's manual.

### Browsing for a song

The operation is the same as that of the iPod connected to USB interface of this unit. (Refer to *Searching songs by category* on page 34.) However, the selectable categories are slightly different. Selectable categories are

**PLAYLISTS** (playlists)—**ARTISTS** (artists)—

**ALBUMS** (albums)—**SONGS** (songs)—

**GENRES** (genres)

### Displaying text information on iPod

The operation is the same as that of the iPod connected to USB interface of this unit. (Refer to *Displaying text information on iPod* on page 35.)

### 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.

The function menu is displayed.

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

**REPEAT** (repeat play)—**SHUFFLE** (shuffle)—

**PAUSE** (pause)

### Function and operation

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

Function name	Operation
<b>REPEAT</b>	Refer to <i>Repeating play</i> on page 28. However, the repeat play ranges you can select are different from that of the built-in DVD player. The repeat play ranges of the iPod are: <ul style="list-style-type: none"> <li>• <b>ONE</b> – Repeat the current song</li> <li>• <b>ALL</b> – Repeat all songs in the selected list</li> </ul>
<b>PAUSE</b>	Refer to <i>Pausing playback</i> on page 29.



#### Notes

- You can also select the function by pressing **FUNCTION** on the remote control.
- To return to the ordinary display, press **BAND**.
- If you do not operate functions within about 30 seconds, the display automatically returns to the ordinary display.

### Playing songs in a random order (shuffle)

- Press **⇄** repeatedly to select the desired setting.
  - **SONGS** – Play back songs in the selected list in random order.

## Available accessories


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



### Note

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

## Information display

The operation is the same as that of the iPod connected to USB interface of this unit. (Refer to *Information display* on page 37.) 

## 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.*
- *This unit is not designed to operate disc title list functions with a 50-disc multi-CD player. For information about the disc title list functions, refer to *Selecting discs from the disc title list* on page 60.*

#### ● Select a disc

Push **MULTI-CONTROL** up or down.

- You can also select a disc by using **1** to **6** buttons on the remote control.
  - For discs 1 to 6, press the corresponding button number.
  - For discs 7 to 12, press and hold the corresponding numbers, such as **1** for disc 7, until the disc number appears in the display.

#### ● Fast forward or reverse

Push and hold **MULTI-CONTROL** left or right.

#### ● Select a track

Push **MULTI-CONTROL** left or right.



### 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.

## Selecting a track directly

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

For details concerning operation, refer to *Searching for the part you want to play* on page 23.

## Using CD TEXT functions

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

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

Refer to *Displaying text information* on page 26.

## 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.

The function menu is displayed.

**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 PLAY** (ITS play)—**ITS MEMO** (ITS programming)—**TITLE INPUT** (disc title input)

- You can also select the function by pressing **FUNCTION** on the remote control.
- To return to the ordinary display, press **BAND**.
- When playing a CD TEXT disc on a CD TEXT compatible multi-CD player, you cannot switch to **TITLE INPUT**. The disc title is already recorded on the CD TEXT disc.

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

## Function and operation

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

Function name	Operation
<b>REPEAT</b>	Refer to <i>Repeating play</i> on page 28. However, the repeat play ranges you can select are different from that of the built-in DVD player. The repeat play ranges of the multi-CD player are: <ul style="list-style-type: none"> <li>• <b>MCD</b> – Repeat all discs in the multi-CD player</li> <li>• <b>TRACK</b> – Repeat just the current track</li> <li>• <b>DISC</b> – Repeat the current disc</li> </ul>
<b>RANDOM</b>	Refer to <i>Playing tracks in random order</i> on page 28.
<b>SCAN</b>	Refer to <i>Scanning folders and tracks</i> on page 28.
<b>PAUSE</b>	Refer to <i>Pausing playback</i> on page 29.
<b>TITLE INPUT</b>	Refer to <i>Entering disc titles</i> on page 30.



### Notes

- 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.

## Available accessories

### 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.

- **Press COMP repeatedly to select the desired setting.**

OFF—COMP1—COMP2—OFF—DBE1—DBE2

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



#### Note

You can also select setting in the menu that appears by using **MULTI-CONTROL**.

### 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 the disc titles). (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.**

Push **MULTI-CONTROL** up or down to select the CD.

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

Refer to *Introduction to advanced operations* on the previous page.

- 3 Select the desired track by pushing MULTI-CONTROL left or right.**

- 4 Push MULTI-CONTROL up to store the currently playing track in the playlist.**

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

- 5 Press BAND to return to the ordinary display.**



#### 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.**

Refer to *Introduction to advanced operations* on the previous page.

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

Refer to *Introduction to advanced operations* on the previous page.

- 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 **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**.

#### 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 MEMO in the function menu.

Refer to *Introduction to advanced operations* on page 58.

#### 3 Select the desired track by pushing **MULTI-CONTROL** left or right.

#### 4 Push **MULTI-CONTROL** down to erase the track from your ITS playlist.

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, **EMPTY** is displayed and normal playback resumes.

#### 5 Press **BAND** to return to the ordinary display.

### 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.

Push **MULTI-CONTROL** up or down to select the CD.

#### 2 Use **MULTI-CONTROL** to select ITS MEMO in the function menu.

Refer to *Introduction to advanced operations* on page 58.

#### 3 Push **MULTI-CONTROL** down to erase all tracks on the currently playing CD from your ITS playlist.

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

#### 4 Press **BAND** to return to the ordinary display.

## Using disc title functions

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

### Entering disc titles

Use the disc title input feature to store up to 100 CD titles (with ITS playlist) into the multi-CD player. Each title can be up to 10 characters long.

For details concerning operation, refer to *Entering disc titles* on page 30.

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

### Displaying disc titles

You can display the text information of any disc that has the disc title entered.

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

Refer to *Displaying text information* on page 26.

### Selecting discs from the disc title list


Disc title list lets you see the list of disc titles entered in the multi-CD player and select one of them to play back.

## Available accessories

**1 Press LIST to switch to the disc title list mode during the playback display.**

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

Turn to change the disc title. Press to play.

- You can also change the disc title by pushing **MULTI-CONTROL** up or down.
- If no title is entered for a disc, **NO DISC TITLE** is displayed.
- **NO DISC** is displayed next to the disc number when there is no disc in the magazine.
- If you do not operate the list within about 30 seconds, the display automatically returns to the ordinary display. 

## TV tuner

### Basic Operations

*You can use this unit to control a TV tuner, which is sold separately.*

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

#### ● Select a band

Press **BAND**.

- Band can be selected from **TV1** or **TV2**.

#### ● Select a channel (step by step)

Push **MULTI-CONTROL** left or right.

#### ● Seek tuning

Push and hold **MULTI-CONTROL** left or right, and then release.

- You can cancel seek tuning by pushing **MULTI-CONTROL** left or right.
- While pushing and holding **MULTI-CONTROL** left or right, you can skip stations. Seek tuning starts as soon as you release **MULTI-CONTROL**.

### Storing and recalling broadcast stations

If you press any of the preset tuning buttons **1** to **6**, you can easily store up to six broadcast stations for later recall with the touch of a button.

- Only the remote control can operate this function.
- Up to 12 stations, six for each of two TV bands can be stored in memory.

- When you find a station that you want to store in memory, press one of preset tuning buttons 1 to 6 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 station has been stored in memory.

The next time you press the same preset tuning button the station is recalled from memory.

- You can also recall stations assigned to preset tuning numbers by pushing **MULTI-CONTROL** up or down during the channel display.

## Storing the strongest broadcast stations sequentially


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

**2 Use MULTI-CONTROL and select FUNCTION to display BSSM.**

- You can also select the function by pressing **FUNCTION** on the remote control.

**3 Press MULTI-CONTROL to turn BSSM on.**


**SEARCH** begins to flash. While **SEARCH** is flashing, the 12 strongest broadcast stations are stored in order from the lowest channel up.

- To cancel the storage process, press **MULTI-CONTROL** again.
- To return to the ordinary display, press **BAND**.
- If you do not operate the list within about 30 seconds, the display automatically returns to the ordinary display. 

## 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-BTB100 is not sold on the market.
- This unit is a head unit group 2 unit.
  - 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** to switch Bluetooth telephone and Bluetooth audio. 

## Available accessories

### DVD Player

You can use this unit with a separately sold DVD player or multi-DVD player.

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

### Introduction of DVD operation

You can use the following function with this unit. (Reference page is in this manual.)

- Using ITS playlist and disc title functions
  - During CD playback when using this unit with a multi-DVD player, you can use these functions. Operation is same as for multi-CD player. Please refer to multi-CD player section.

Also, operation of the following function with this unit differs. (Reference page is in this manual.)

- Introduction to advanced operations* (Refer to this page.)

### 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.

The function menu is displayed.

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

**For DVD video and Video CD**

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

### For CDs


**REPEAT** (repeat play)—**RANDOM** (random play)—**SCAN** (scan play)—**PAUSE** (pause)—**ITS PLAY** (ITS play)—**ITS MEMO** (ITS programming)—**TITLE INPUT** (disc title input)

### For compressed audio discs

**REPEAT** (repeat play)—**RANDOM** (random play)—**SCAN** (scan play)—**PAUSE** (pause)

- You can also select the function by pressing **FUNCTION** on the remote control.
- To return to the ordinary display, press **BAND**.
- During PBC (Playback Control) playback, you cannot select **REPEAT**.
- If you do not operate functions except for **TITLE INPUT** within about 30 seconds, the display automatically returns to the ordinary display.

### Note

Multi-DVD player that has ITS functions and disc title functions can also be connected to this unit. In this case, **ITS PLAY**, **ITS MEMO** and disc title input can be controlled. 

## Digital Signal Processor

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

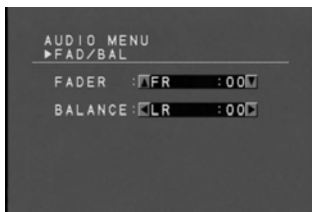
- Some functions may differ depending on the multi-channel processor connected to this unit.

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

## When the separately sold display is connected to this unit

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



In this manual, operations are described with head unit's buttons and display.

## 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.

The audio menu is displayed.

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

Turn **MULTI-CONTROL** to switch between the audio functions in the following order.

**FADER** (balance adjustment)—**POSITION** (position selector)—**PLII** (Dolby Pro Logic II)—**PANORAMA** (music mode adjust)—**SFC** (sound field control)—**DOWN MIX** (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-LEFT** (speaker output level)—**TEST TONE** (test tone)—**TA** (time alignment mode)—**FRONT-L** (time alignment adjustment)—**PEQ-2** (3-band parametric equalizer)

- You can also use **A.MENU** on the remote control to select an audio menu.
- When playing discs recorded with more than 96 kHz sampling frequency, you cannot use audio functions. Also, equalizer curve setting, **POSITION**, **AUTO EQ** and **AUTO TA** will be cancelled.
- When playing discs recorded with more than 96 kHz sampling frequency, audio is 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 **OFF** in **TA**, you cannot select **FRONT-L**.

## Available accessories

- You cannot select **AUTO EQ** if auto TA and EQ has not been carried out.
- To return to the display of each source, press **BAND**.
- If you do not operate the DSP function except for **TEST TONE**, **FRONT-L** and **PEQ-2** 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.

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

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

### 2 Push MULTI-CONTROL up or down 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:F/R0** is the proper setting when only two speakers are used.

### 3 Push MULTI-CONTROL left or right 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 con-

junction 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 POSITION.

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

### 2 Push MULTI-CONTROL left, right, up or down to select a listening position.

Direction	Display	Position
Left	<b>FRONT-L</b>	Front seat left
Right	<b>FRONT-R</b>	Front seat right
Up	<b>FRONT</b>	Front seats
Down	<b>ALL</b>	All seats

- To cancel the selected listening position, push **MULTI-CONTROL** in the same direction 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 48kHz sampling rate stereo source and has no effect on other types of source.

### 1 Use MULTI-CONTROL to select PLII.

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

## Available accessories

### 2 Push MULTI-CONTROL left or right 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 (**PANORAMA**) extends the front stereo image to include the surround speakers for an exciting “wraparound” effect.
- Dimension (**DIMENSION**) allows you to gradually adjust the sound field either towards the front or the rear.
- Center Width 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 adjusting music mode.

Refer to *Introduction of DSP adjustments* on page 64.

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

### 2 Push MULTI-CONTROL left or right to select PANORAMA.

**PANORAMA** (panorama)—**DIMENSION** (dimension)—**CENTER** (center width)

### 3 Push MULTI-CONTROL up to turn the panorama control on.

- To turn the panorama control off, push **MULTI-CONTROL** down.

### 4 Push MULTI-CONTROL right to select DIMENSION and then push MULTI-CONTROL up or down to adjust front/surround speaker balance.

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

### 5 Push MULTI-CONTROL right to select CENTER and then push MULTI-CONTROL up or down to adjust the center image.

Each time **MULTI-CONTROL** is pushed up or down 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

- **Press EQ and hold to select the desired SFC mode.**

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

### Notes

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

Refer to *Introduction of DSP adjustments* on page 64.

- 2 Push MULTI-CONTROL left or right 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.**

Refer to *Introduction of DSP adjustments* on page 64.

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

- 2 Push MULTI-CONTROL up to turn the dynamic range control on.**

- To turn dynamic range control off, push **MULTI-CONTROL** down.

## 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.**

Refer to *Introduction of DSP adjustments* on page 64.

- 2 Push MULTI-CONTROL up to turn the direct control on.**

- To turn direct control off, push **MULTI-CONTROL** down.

## 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.

Refer to *Introduction of DSP adjustments* on page 64.

## 3 Push MULTI-CONTROL up or down 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.

Refer to *Introduction of DSP adjustments* on page 64.

- If auto TA and EQ have not been carried out, **SET AUTO EQ** is displayed when **AUTO EQ** is selected.

### 2 Push MULTI-CONTROL up to turn the auto-equalizer on.

**ON** appears in the display.

- To turn auto-equalizer off, push **MULTI-CONTROL** down.

## 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.

## Available accessories

### Before operating the auto TA and EQ function

- Carry out auto TA and EQ in as quiet a place as possible, with the car engine and air conditioning switched off. Also cut power to car phones or portable telephones in the car, or remove them from the car before carrying out auto TA and EQ. Sounds other than the measurement tone (surrounding sounds, engine sound, telephones ringing etc.) may prevent correct measurement of the car interior acoustic characteristics.
- Be sure to carry out auto TA and EQ using the supplied microphone. Using another microphone may prevent measurement, or result in incorrect measurement of the car interior acoustic characteristics.
- When front speaker is not connected, auto TA and EQ cannot be carried out.
- When this unit is connected to a power amp with input level control, auto TA and EQ may not be possible if you lower power amp input level. Set the power amp's input level to the standard position.
- When this unit is connected to a power amp with an LPF, turn off the LPF on the power amp before carrying out auto TA and EQ. In addition, the cut-off frequency for built-in LPF of an active subwoofer should be set to the highest frequency.
- The time alignment value calculated by auto TA and EQ may differ from the actual distance in the following circumstances. However, the distance has been calculated by computer to be the optimum delay to give accurate results for the circumstances, so please continue to use this value.
  - When the reflected sound within a vehicle is strong and delays occur.
  - When delays occur for low sounds due to the influence of the LPF on active subwoofers or external amps.

- Auto TA and EQ changes the audio settings as below:
  - The fader/balance settings return to the center position. (Refer to page 65.)
  - The equalizer curve switches to **FLAT**. (Refer to page 74.)
  - 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.

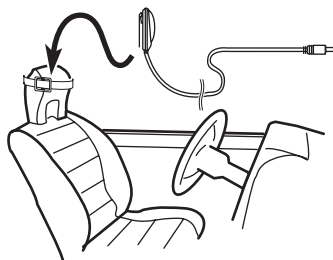
### Carrying out auto TA and EQ

#### 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.



## Available accessories

**3 Turn the ignition switch to ON or ACC.**

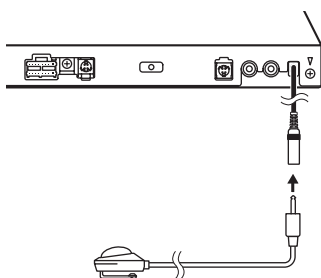
If the car's air conditioner or heater is turned on, turn it off. Noise from the fan in the air conditioner or heater may prevent correct auto TA and EQ.

- Press **SOURCE** to turn the source on if this unit is turned off.

**4 Select the position for the seat on which the microphone is placed.**

Refer to *Using the position selector* on page 65.

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

**5 Press SOURCE and hold until the unit turns off.****6 Press and hold EQ to enter the auto TA and EQ measurement mode.****7 Plug the microphone into the microphone input jack on the 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**.

**10 When auto TA and EQ is completed, END 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 79.)

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

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

## Available accessories

- It is imperative that non-installed speakers be set to **OFF**.
- Set the front or rear speaker to **LARGE** if the speaker is capable of reproducing bass content, or if no subwoofer is installed.

### 1 Use MULTI-CONTROL to select FRONT.

Refer to *Introduction of DSP adjustments* on page 64.

### 2 Push MULTI-CONTROL left or right to select the speaker to be adjusted.

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

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

### 3 Push MULTI-CONTROL up or down to select the correct size for the selected speaker.

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

- You cannot select **OFF**, when **FRONT** (front speakers) have been selected.
- You can select **ON** or **OFF**, when

**SUB WOOFER** (subwoofer) has been selected.

- You can switch **REVERSE** (reverse phase) or **NORMAL** (normal phase), when **PHASE** (subwoofer setting) has been selected.

## Correcting the subwoofer's phase

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

### 1 Use MULTI-CONTROL to select FRONT.

Refer to *Introduction of DSP adjustments* on page 64.

### 2 Push MULTI-CONTROL left or right to select SUB WOOFER.

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

### 3 Push MULTI-CONTROL up to turn the subwoofer output on.

### 4 Push MULTI-CONTROL right to select PHASE (subwoofer setting).

### 5 Push MULTI-CONTROL up or down to select the phase of subwoofer output.

Push **MULTI-CONTROL** up to select **NORMAL** (normal phase). Push **MULTI-CONTROL** down to select **REVERSE** (reverse phase).



#### Note

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

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

## 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 **SMALL**, you can select a frequency, under which sounds are reproduced through a **LARGE** speaker or subwoofer.

### 1 Use MULTI-CONTROL to select HPF.

Refer to *Introduction of DSP adjustments* on page 64.

**2 Push MULTI-CONTROL left or right to select the speaker to be adjusted.**

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

**3 Push MULTI-CONTROL up or down to select cross-over frequency for the selected speaker.**

**63HZ—80HZ—100HZ—125HZ—160HZ—200HZ**



#### 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 **SMALL** 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 **LARGE** 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-LEFT.**

Refer to *Introduction of DSP adjustments* on page 64.

**2 Push MULTI-CONTROL left or right to select the speaker to be adjusted.**

**FRONT-LEFT** (front speaker left)—**CENTER** (center speaker)—**FRONT-RIGHT** (front speaker right)—**REAR-RIGHT** (rear speaker right)—**REAR-LEFT** (rear speaker left)—**SUB WOOFER** (subwoofer)

- You cannot select speakers whose size is set at **OFF**. (Refer to *Setting the speaker setting* on page 70.)

**3 Push MULTI-CONTROL up or down 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.

## Available accessories

### 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.

Refer to *Introduction of DSP adjustments* on page 64.

#### 2 Push MULTI-CONTROL right 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-LEFT** (front speaker left)—**CENTER** (center speaker)—**FRONT-RIGHT** (front speaker right)—**REAR-RIGHT** (rear speaker right)—**REAR-LEFT** (rear speaker left)—**SUB WOOFER** (subwoofer)

- Check each speaker output level. If no adjustments are needed, perform step 4 to stop the test tone.
- The settings do not appear for speakers whose size is set **OFF**. (Refer to *Setting the speaker setting* on page 70.)

#### 3 Push MULTI-CONTROL up or down 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 Push MULTI-CONTROL left to stop the test tone output.

#### 5 Press BAND 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-LEFT**. 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 TA.

Refer to *Introduction of DSP adjustments* on page 64.

#### 2 Push MULTI-CONTROL left or right to select the time alignment.

- **INITIAL** – Initial time alignment (factory setting)
- **CUSTOM** – Adjusted time alignment that you can create for yourself
- **AUTO TA** – Time alignment created by auto TA and EQ. (Refer to *Auto TA and EQ (auto-time alignment and auto-equalizing)* on page 68.)
- **OFF** – Turn the time alignment off
- If auto TA and EQ have not been carried out, **SET AUTO TA** is displayed when **AUTO TA** is selected.

### 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 FRONT-L.

Refer to *Introduction of DSP adjustments* on page 64.

## Available accessories

▪ When you select **OFF** in **TA**, you cannot select **FRONT-L**.

▪ If a position other than **FRONT-L** or **FRONT-R** is selected, **CHECK POSITION** is displayed. To set the position, refer to *Using the position selector* on page 65.

### 2 Push MULTI-CONTROL left or right 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 WOOFER** (subwoofer)

▪ You cannot select speakers whose size is set at **OFF**. (Refer to *Setting the speaker setting* on page 70.)

### 3 Push MULTI-CONTROL up or down to adjust the distance between the selected speaker and the listening position.

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

### 4 Press BAND 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
<b>POWERFUL</b>	Powerful
<b>NATURAL</b>	Natural
<b>VOCAL</b>	Vocal
<b>FLAT</b>	Flat

Display	Equalizer curve
<b>CUSTOM 1</b>	Custom 1
<b>CUSTOM 2</b>	Custom 2
<b>SUPER BASS</b>	Super bass

- **CUSTOM 1** and **CUSTOM 2** are adjusted equalizer curves.
- When **FLAT** is selected, no supplement or correction is made to the sound. This is useful to check the effect of the equalizer curves by switching alternatively between **FLAT** and a set equalizer curve.

### ● Press EQ to select the equalizer.

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

**POWERFUL—NATURAL—VOCAL—FLAT—CUSTOM 1—CUSTOM 2—SUPER BASS**

## Adjusting 3-band parametric equalizer

For **CUSTOM 1** and **CUSTOM 2** 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 **CUSTOM 1** curve can be created for each source.
- A **CUSTOM 2** curve can be created common to all sources.
- 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.

## Available accessories

### 1 Use MULTI-CONTROL to select PEQ-2.

Refer to *Introduction of DSP adjustments* on page 64.

- Adjusted PEQ-2 settings are memorized in CUSTOM 1.

### 2 Push MULTI-CONTROL left or right to select the desired item.

**FRONT** (speakers)—**LOW** (bands)—**200** (center frequency)—**0** (equalizer level)—**WIDE** (Q factor)

### 3 Push MULTI-CONTROL up or down to select the speaker to be adjusted.

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

- You cannot select speakers whose size is set at **OFF**. (Refer to *Setting the speaker setting* on page 70.)

### 4 Push MULTI-CONTROL right and then push MULTI-CONTROL up or down to select the equalizer band to be adjusted.

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

### 5 Push MULTI-CONTROL right and then push MULTI-CONTROL up or down to select the center frequency of selected band.

**40HZ—50HZ—63HZ—80HZ—100HZ—125HZ—160HZ—200HZ—250HZ—315HZ—400HZ—500HZ—630HZ—800HZ—1KHZ—1.25KHZ—1.6KHZ—2KHZ—2.5KHZ—3.15KHZ—4KHZ—5KHZ—6.3KHZ—8KHZ—10KHZ—12.5KHZ**

### 6 Push MULTI-CONTROL right and then push MULTI-CONTROL up or down to adjust the equalizer level.

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

### 7 Push MULTI-CONTROL right and then push MULTI-CONTROL up or down to select the desired Q factor.

**WIDE** (wide)—**NARROW** (narrow)

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

### 8 Press BAND 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 15)
	Battery power is low.	Load new battery. (Page 11)
	Some operations are prohibited with certain discs.	Check by using another disc.
Playback is not possible.	The disc is dirty.	Clean disc. (Page 81)
	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 45)
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.

## Additional Information

### 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 7, Page 90)
A parental lock message is displayed and playback is not possible.	Parental lock is on.	Turn parental lock off or change the level. (Page 45)
Parental lock cannot be canceled.	The code number is incorrect.	Input the correct code number. (Page 45)
	You have forgotten your code number.	Press <b>CLEAR</b> 10 times to cancel the code number. (Page 46)
Dialog language (and subtitle language) cannot be switched.	The DVD playing does not feature multiple language recordings.	You cannot switch among multiple languages if they are not recorded on the disc.
	You can only switch between items indicated in the disc menu.	Switch using the disc menu.
No subtitles are displayed.	The DVD playing does not feature subtitles.	Subtitles are not displayed if they are not recorded on the disc.
	You can only switch between items indicated in the disc menu.	Switch using the disc menu.
Playback is not with the audio language and subtitle language settings selected in the DVD setup menu.	The DVD playing does not feature dialog or subtitles in the language selected in the DVD setup menu.	Switching to a selected language is not possible if the language selected in the DVD setup menu is not recorded on the disc. (Page 43)
Switching the viewing angle is not possible.	The DVD playing does not feature scenes shot from multiple angles.	You cannot switch between multiple angles if the DVD does not feature scenes recorded from multiple angles.
	You are trying to switch to multiple angle viewing of a scene that is not recorded from multiple angles.	Switch between multiple angles when watching scenes recorded from multiple angles.
The picture is extremely unclear/distorted and dark during playback.	The disc features a signal to prohibit copying. (Some discs may have this.)	Since this 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.

## Additional Information

### Problems during iPod playback

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

### 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 <b>LINE-AR PCM</b> .	Normally, set the digital output setting to <b>STREAM</b> . (Page 47)



## 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
<b>ERROR 02-XX</b>	Dirty disc	Clean disc.
	Scratched disc	Replace disc.
	The disc is loaded upside down	Check that the disc is loaded correctly.
<b>HEAT (THERMAL PROTECTION IN MOTION)</b>	The temperature of this unit is outside the normal operating range	Wait until the unit's temperature returns to within normal operating limits.
<b>NON-PLAY (NON-PLAYABLE DISC)</b>	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.
<b>PROTECT (PROTECTED DISC)</b>	All the files on the inserted disc are secured by DRM	Replace disc.
<b>REGION ERROR (DIFFERENT REGION DISC)</b>	The disc does not have the same region number as this unit	Replace the DVD video with one bearing the correct region number.
<b>SKIPPED</b>	The inserted disc contains WMA files that are protected by DRM	Replace disc.

## Additional Information

### USB audio player/USB memory

Message	Cause	Action
<b>CHECK USB</b>	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.
<b>N/A USB</b>	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.
<b>NO AUDIO</b>	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.
<b>PROTECT</b>	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.
<b>SKIPPED</b>	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.



## 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
<b>ERROR MIC</b>	Microphone is not connected.	Plug the supplied microphone securely into the jack.
<b>ERROR FRONT SP, ERROR FRONT-L SP, ERROR FRONT-R SP, ERROR CENTER SP, ERROR REAR SP, ERROR REAR-L SP, ERROR REAR-R SP, ERROR SUB WOOFER</b>	The microphone cannot pick up the measuring tone of a speaker.	<ul style="list-style-type: none"> <li>• Confirm that the speakers are connected correctly.</li> <li>• Correct the input level setting of the power amp connected to the speakers.</li> <li>• Set the microphone correctly.</li> </ul>

## Additional Information

Message	Cause	Action
<b>ERROR NOISE</b>	The surrounding noise level is too high.	<ul style="list-style-type: none"> <li>• Stop your car in a place that is as quiet as possible, and switch off the engine, air conditioner or heater.</li> <li>• Set the microphone correctly.</li> </ul>



## Understanding messages

Messages	Translation
<b>CAUTION! SCREEN IMAGE MAY APPEAR REVERSED</b>	<b>Pioneer recommends the use of a camera which outputs mirror reversed images, otherwise screen image may appear reversed.</b>



## Additional Information

### Handling guideline of discs and player

- Use only conventional, fully circular discs. Do not use shaped discs.



- Use 12-cm or 8-cm disc. Do not use an adapter when playing 8-cm discs.
- Do not insert anything other than a disc into the disc loading slot. Discs which can be played back are listed on *Playable discs* on page 6.
- Do not use cracked, chipped, warped, or otherwise damaged discs as they may damage the player.
- Do not touch the recorded surface of the discs.
- Store discs in their cases when not in use.
- Avoid leaving discs in excessively hot environments including under direct sunlight.
- 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.
- Condensation may temporarily impair the player's performance. Leave it to adjust to the warmer temperature for about one hour. Also, wipe any dump discs with a soft cloth.
- Playback of discs may not be possible because of disc characteristics, disc format, recorded application, playback environment, storage conditions, and so on.
- Road shocks may interrupt disc playback.
- Read the precautions for discs before using them.

### 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.
- 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




## Additional Information


### 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

- Unfinalized CD-R/CD-RW disc playback is not possible.
- Playback of discs may not be possible because of disc characteristics, disc format, recorded application, playback environment, storage conditions, and so on.
- Text information may not be correctly displayed depending on the recorded environment. 

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

### USB audio player/USB memory

#### USB audio player/USB memory compatibility

- USB version: 2.0, 1.1 and 1.0
- USB data transfer rate: full speed
- USB Class: MSC (Mass Storage Class) device
- Protocol: bulk
- Minimum amount of memory: 250 MB
- Maximum amount of memory: 250 GB
- File system: FAT32 and FAT16
- Supply current: 500 mA



#### Notes

- 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.
- 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.

#### Handling guideline and supplemental 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.

## Additional Information

- 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.
- There may be a slight delay when starting playback of audio files encoded with image data.
- Depending on the USB devices connected to this unit, it may generate noise in the radio.
- Only 64 characters from the beginning can be displayed as a file name (including the extension) or a folder name when USB portable audio player/USB memory is selected as a source.
- The text information of some audio files may not be correctly displayed.
- File extensions must be used properly.
- Up to 15 000 files on a USB portable audio player/USB memory can be played back.
- Up to 500 folders on a USB portable audio player/USB memory can be played back.
- Up to eight tiers directory on a USB portable audio player/USB memory can be played back.
- 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.

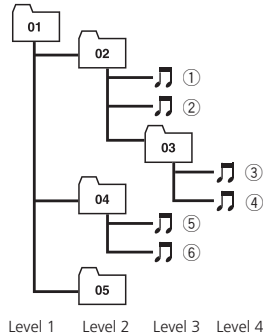
### The sequence of audio files on USB memory

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

### Example of a hierarchy

📁: Folder

🎵: Compressed audio file



- 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.

### Compressed audio compatibility

#### WMA

- Compatible format: WMA encoded by Windows Media Player
- Bit rate: 48 kbps to 320 kbps (CBR), 48 kbps to 384 kbps (VBR)
- Sampling frequency: 32 kHz to 48 kHz

## Additional Information

- Windows Media Audio 9 Professional, Lossless, Voice: No

### MP3

- Bit rate: 8 kbps to 320 kbps
- Sampling frequency: 16 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®
- Sampling frequency: 11.025 kHz to 48 kHz
- Transmission rate: 16 kbps to 320 kbps
- Apple Lossless: No

### WAV

- Compatible format: Linear PCM (LPCM), MS ADPCM
- Quantization bits: 8 and 16 (LPCM), 4 (MS ADPCM)
- Sampling frequency: 16 kHz to 48 kHz (LPCM), 22.05 kHz to 44.1 kHz (MS ADPCM)

## iPod

### About handling the iPod

- 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.
- Connect directly the dock connector cable to the iPod so that this unit works properly.
- 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

- You cannot operate the iPod Equalizer on Pioneer products. We recommend that you set the iPod Equalizer to off, before connecting to this unit.
- 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.

### Compressed audio files on the disc

- Depending on the version of Windows Media Player used to encode WMA files, album names and other text information may not be correctly displayed.
- There may be a slight delay when starting playback of audio files encoded with image data.
- 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.
- Only 64 characters from the beginning can be displayed as a file name (including the extension such as .wma or .mp3) or a folder name.
- Folder selection sequence or other operation may be altered depending on the encoding or writing software.

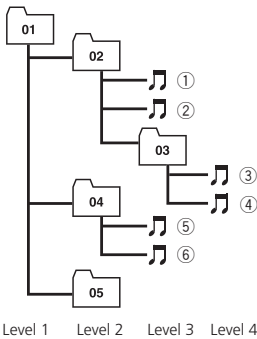
## Additional Information

- Regardless of the length of blank section between the songs of original recording, compressed audio discs play with a short pause between songs.
- File extensions such as .wma or .mp3 must be used properly.

### Example of a hierarchy

📁: Folder

🎵: Compressed audio file



- This unit assigns folder numbers. The user cannot assign folder numbers.
- It is possible to play back up to 255 folders on one disc.

### Compressed audio compatibility

#### WMA

- Compatible format: WMA encoded by Windows Media Player
- 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

- Bit rate: 8 kbps to 320 kbps (CBR), VBR
- Sampling frequency: 8 kHz to 48 kHz (8 kHz to 48 kHz for emphasis)

- Compatible ID3 tag version: 1.0, 1.1, 2.2, 2.3 (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®
- Bit rate: 8 kbps to 320 kbps (CBR)
- VBR: No
- Sampling frequency: 8 kHz to 44.1 kHz
- Apple Lossless: No

### 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.
- 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 46.
- File extensions such as .avi or .divx must be used properly.
- 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
- DivX Ultra 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), <b>1001</b>	Guarani (gn), <b>0714</b>	Pashto, Pushto (ps), <b>1619</b>
English (en), <b>0514</b>	Gujarati (gu), <b>0721</b>	Quechua (qu), <b>1721</b>
French (fr), <b>0618</b>	Hausa (ha), <b>0801</b>	Rhaeto-Romance (rm), <b>1813</b>
Spanish (es), <b>0519</b>	Hindi (hi), <b>0809</b>	Kirundi (rn), <b>1814</b>
German (de), <b>0405</b>	Croatian (hr), <b>0818</b>	Romanian (ro), <b>1815</b>
Italian (it), <b>0920</b>	Hungarian (hu), <b>0821</b>	Kinyarwanda (rw), <b>1823</b>
Chinese (zh), <b>2608</b>	Armenian (hy), <b>0825</b>	Sanskrit (sa), <b>1901</b>
Dutch (nl), <b>1412</b>	Interlingua (ia), <b>0901</b>	Sindhi (sd), <b>1904</b>
Portuguese (pt), <b>1620</b>	Interlingue (ie), <b>0905</b>	Sangho (sg), <b>1907</b>
Swedish (sv), <b>1922</b>	Inupiak (ik), <b>0911</b>	Serbo-Croatian (sh), <b>1908</b>
Russian (ru), <b>1821</b>	Indonesian (in), <b>0914</b>	Sinhalese (si), <b>1909</b>
Korean (ko), <b>1115</b>	Icelandic (is), <b>0919</b>	Slovak (sk), <b>1911</b>
Greek (el), <b>0512</b>	Hebrew (iw), <b>0923</b>	Slovenian (sl), <b>1912</b>
Afar (aa), <b>0101</b>	Yiddish (ji), <b>1009</b>	Samoan (sm), <b>1913</b>
Abkhazian (ab), <b>0102</b>	Javanese (jw), <b>1023</b>	Shona (sn), <b>1914</b>
Afrikaans (af), <b>0106</b>	Georgian (ka), <b>1101</b>	Somali (so), <b>1915</b>
Amharic (am), <b>0113</b>	Kazakh (kk), <b>1111</b>	Somali (sq), <b>1917</b>
Arabic (ar), <b>0118</b>	Greenlandic (kl), <b>1112</b>	Serbian (sr), <b>1918</b>
Assamese (as), <b>0119</b>	Cambodian (km), <b>1113</b>	Siswati (ss), <b>1919</b>
Aymara (ay), <b>0125</b>	Kannada (kn), <b>1114</b>	Sesotho (st), <b>1920</b>
Azerbaijani (az), <b>0126</b>	Kashmiri (ks), <b>1119</b>	Sundanese (su), <b>1921</b>
Bashkir (ba), <b>0201</b>	Kurdish (ku), <b>1121</b>	Swahili (sw), <b>1923</b>
Byelorussian (be), <b>0205</b>	Kirghiz (ky), <b>1125</b>	Tamil (ta), <b>2001</b>
Bulgarian (bg), <b>0207</b>	Latin (la), <b>1201</b>	Telugu (te), <b>2005</b>
Bihari (bh), <b>0208</b>	Lingala (ln), <b>1214</b>	Tajik (tg), <b>2007</b>
Bislama (bi), <b>0209</b>	Laothian (lo), <b>1215</b>	Thai (th), <b>2008</b>
Bengali (bn), <b>0214</b>	Lithuanian (lt), <b>1220</b>	Tigrinya (ti), <b>2009</b>
Tibetan (bo), <b>0215</b>	Latvian (lv), <b>1222</b>	Turkmen (tk), <b>2011</b>
Breton (br), <b>0218</b>	Malagasy (mg), <b>1307</b>	Tagalog (tl), <b>2012</b>
Catalan (ca), <b>0301</b>	Maori (mi), <b>1309</b>	Setswana (tn), <b>2014</b>
Corsican (co), <b>0315</b>	Macedonian (mk), <b>1311</b>	Tonga (to), <b>2015</b>
Czech (cs), <b>0319</b>	Malayalam (ml), <b>1312</b>	Turkish (tr), <b>2018</b>
Welsh (cy), <b>0325</b>	Mongolian (mn), <b>1314</b>	Tsonga (ts), <b>2019</b>
Danish (da), <b>0401</b>	Moldavian (mo), <b>1315</b>	Tatar (tt), <b>2020</b>
Bhutani (dz), <b>0426</b>	Marathi (mr), <b>1318</b>	Twi (tw), <b>2023</b>
Esperanto (eo), <b>0515</b>	Malay (ms), <b>1319</b>	Ukrainian (uk), <b>2111</b>
Estonian (et), <b>0520</b>	Maltese (mt), <b>1320</b>	Urdu (ur), <b>2118</b>
Basque (eu), <b>0521</b>	Burmese (my), <b>1325</b>	Uzbek (uz), <b>2126</b>
Persian (fa), <b>0601</b>	Nauru (na), <b>1401</b>	Vietnamese (vi), <b>2209</b>
Finnish (fi), <b>0609</b>	Nepali (ne), <b>1405</b>	Volapük (vo), <b>2215</b>
Fiji (fj), <b>0610</b>	Norwegian (no), <b>1415</b>	Wolof (wo), <b>2315</b>
Faroese (fo), <b>0615</b>	Occitan (oc), <b>1503</b>	Xhosa (xh), <b>2408</b>
Frisian (fy), <b>0625</b>	Oromo (om), <b>1513</b>	Yoruba (yo), <b>2515</b>
Irish (ga), <b>0701</b>	Oriya (or), <b>1518</b>	Zulu (zu), <b>2621</b>
Scots-Gaelic (gd), <b>0704</b>	Panjabi (pa), <b>1601</b>	
Galician (gl), <b>0712</b>	Polish (pl), <b>1612</b>	



## 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.

#### DVD-VR

DVD-VR (Video Recording) format enables you to edit directly to the DVD video disc. DVD-VR formats allow you to add new video, change menus, add chapters, split clip, remove video segments and move.

#### 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.

## Additional Information

### 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.

### 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.

### 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 compression standard. Some DVDs feature digital audio compressed and recorded using this system.

### Multi-angle

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

### Multi-audio (Multilingual dialog)

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

### Multi-session

Multi-session is a recording method that allows additional data to be recorded later. When recording data on a CD-ROM, CD-R or CD-RW, etc., all data from beginning to end is treated as a single unit or session. Multi-session is a method of recording more than 2 sessions on one disc.

## Additional Information

### Multi-subtitle

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

### Optical digital output/input

By transmitting and receiving audio signals in a digital signal format, the chance of sonic quality deteriorating in the course of transmission is minimized. An optical digital output/input is designed to transmit and receive digital signals optically.

### 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. This unit's region number is displayed on the bottom of the unit.

### 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.

Windows Media and the Windows logo are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries. ■

# 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 × 165 mm
Nose .....	188 mm × 58 mm × 15 mm
D	
Chassis .....	178 mm × 50 mm × 165 mm
Nose .....	170 mm × 46 mm × 15 mm
Weight .....	1415 g

### Audio

Maximum power output .....	50 W × 4 50 W × 2/4 Ω + 70 W × 1/2 Ω (for subwoofer)
Continuous power output .....	22 W × 4 (50 Hz to 15 000 Hz, 5% THD, 4 Ω load, both channels driven)
Load impedance .....	4 Ω to 8 Ω × 4 4 Ω to 8 Ω × 2 + 2 Ω × 1
Preout max output level .....	2.2 V
Equalizer (3-Band Parametric Equalizer):	
Low	
Frequency .....	40/80/100/160 Hz
Q Factor .....	0.35/0.59/0.95/1.15 (+6 dB when boosted)
Gain .....	±12 dB
Mid	
Frequency .....	200/500/1k/2k Hz
Q Factor .....	0.35/0.59/0.95/1.15 (+6 dB when boosted)
Gain .....	±12 dB
High	
Frequency .....	3.15k/8k/10k/12.5k Hz
Q Factor .....	0.35/0.59/0.95/1.15 (+6 dB when boosted)
Gain .....	±12 dB
HPF:	
Frequency .....	50/63/80/100/125 Hz
Slope .....	-12 dB/oct
Subwoofer (mono):	
Frequency .....	50/63/80/100/125 Hz
Slope .....	-18 dB/oct

Gain .....	+6 dB to -24 dB
Phase .....	Normal/Reverse
Bass boost:	
Gain .....	+12 dB to 0 dB

### DVD Player

System .....	DVD video, DVD-VR, Video CD, CD, WMA, MP3, AAC, DivX 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
Signal format:	
Sampling frequency .....	44.1/48/96 kHz
Number of quantization bits .....	16/20/24; linear
Frequency response .....	5 Hz to 44 000 Hz (with DVD, at sampling frequency 96 kHz)
Signal-to-noise ratio .....	97 dB (1 kHz) (IEC-A network) (CD: 96 dB (1 kHz) (IEC-A network))
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. 7.2 and earlier)
DivX decoding format .....	Home Theater Ver. 3, 4, 5.2 (.avi, .divx)

### USB

Specification .....	USB 2.0 full speed
Supply current .....	500 mA
Maximum amount of memory .....	250 GB
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)

## Additional Information

AAC decoding format ..... MPEG-4 AAC (iTunes® encoded only) (.m4a)  
(Ver. 7.2 and earlier)  
WAV signal format ..... Linear PCM & MS ADPCM  
(Non-compressed)

### FM tuner

Frequency range ..... 87.5 MHz to 108.0 MHz  
Usable sensitivity ..... 8 dBf (0.7  $\mu$ V/75  $\Omega$ , mono,  
S/N: 30 dB)  
Signal-to-noise ratio ..... 75 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 ..... 18  $\mu$ V (S/N: 20 dB)  
Signal-to-noise ratio ..... 65 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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