

Operation Manual

DVD RDS RECEIVER

DVH-P500UB

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

- Playable discs **6**
- DVD video disc region numbers **7**
- When an operation is prohibited **10**

01 Before You Start

- To ensure safe driving **6**
- About this unit **6**
 - Playable discs **6**
 - DVD video disc region numbers **7**
- About this manual **7**
- Visit our website **7**
- Features **7**
 - About WMA **9**
 - About MP3 **9**
 - About AAC **9**
 - About DivX **9**
- What the marks on DVDs indicate **9**
 - When an operation is prohibited **10**
- Protecting your unit from theft **10**
 - Removing the front panel **10**
 - Attaching the front panel **10**
- Resetting the microprocessor **10**
- Use and care of the remote control **11**
 - Installing the battery **11**
 - Using the remote control **11**

02 Operating this unit

- What's What **12**
 - Head unit **12**
 - Remote control **13**
 - Display indication **16**
- Basic Operations **17**
 - Power ON/OFF **17**
 - Selecting a source **17**
 - Adjusting the volume **18**
- Tuner **18**

- Basic Operations **18**
- Storing and recalling broadcast frequencies **19**
- Switching the RDS display **19**
- Receiving PTY alarm broadcasts **19**
- Introduction to advanced operations **19**
- Storing the strongest broadcast frequencies **19**
- Tuning in strong signals **20**
- Selecting alternative frequencies **20**
- Receiving traffic announcements **21**
- Using PTY functions **21**
- PTY list **22**
- Built-in DVD player **23**
 - Basic Operations **23**
 - Basic playback controls **24**
 - Switching the media file type **24**
 - Operating the DVD menu **25**
 - PBC playback **25**
 - Playing DivX® VOD content **25**
 - CM skip/CM back **26**
 - Resume playback (Bookmark) **26**
 - Specifying title **26**
 - Specifying track **26**
 - Searching for the part you want to play **27**
 - Changing audio language during playback (Multi-audio) **27**
 - Changing the subtitle language during playback (Multi-subtitle) **28**
 - Changing the viewing angle during playback (Multi-angle) **28**
 - Frame-by-frame playback **28**
 - Slow motion playback **28**
 - Return to the specified scene **29**
 - Automatic playback of DVDs **29**
 - Displaying text information **29**
 - Selecting titles from the title list **30**

- Selecting files from the file name list **30**
- Selecting tracks from the track title list **30**
- Introduction to advanced operations **31**
- Repeating play **31**
- Playing tracks in random order **32**
- Scanning folders and tracks **32**
- Selecting audio output **32**
- Pausing playback **33**
- Searching every 10 tracks in the current disc or folder **33**
- Using compression **33**
- Using disc title functions **33**
- Selecting the play mode **34**
- Switching the information display **34**
- Playing songs on USB portable audio player/USB memory **36**
 - Basic Operations **36**
 - Selecting an audio file directly in the current folder **36**
 - Displaying text information **36**
 - Selecting files from the file name list **37**
 - Introduction to advanced operations **37**
 - Switching the information display **37**
- Playing songs on iPod **38**
 - Basic Operations **38**
 - Browsing for a song **38**
 - Displaying text information on iPod **39**
 - Introduction to advanced operations **39**
 - Playing songs in a random order (shuffle) **40**
 - Playing all songs in a random order (shuffle all) **40**
 - Selecting songs from album list of currently playing artist **40**
 - Operating this unit's iPod function from your iPod **40**
 - Changing audiobook speed **41**
 - Information display **41**
- Audio Adjustments **42**
 - Introduction of audio adjustments **42**
 - Using balance adjustment **42**
 - Using the equalizer **42**
 - Adjusting loudness **44**
 - Using subwoofer output **44**
 - Using the high pass filter **45**
 - Boosting the bass **45**
 - Adjusting source levels **45**
- Setting up the DVD player **46**
 - Introduction of DVD setup adjustments **46**
 - Setting the subtitle language **46**
 - Setting the audio language **46**
 - Setting the menu language **47**
 - Switching the assist subtitle on or off **47**
 - Setting the angle icon display **47**
 - Setting the aspect ratio **48**
 - Setting the parental lock **48**
 - Displaying your DivX® VOD registration code **49**
 - Setting the DivX subtitle file **50**
 - Setting for digital output **50**
- Initial Settings **51**
 - Adjusting initial settings **51**
 - Setting the clock **51**
 - Turning the off clock display on or off **51**
 - Setting the FM tuning step **52**
 - Switching Auto PI Seek **52**
 - Switching the warning tone **52**
 - Switching the auxiliary setting **52**

- Setting the AV input **53**
 - Selecting the illumination color **53**
 - Setting the rear output and subwoofer controller **54**
 - Switching the ever scroll **54**
 - Multi language display setting **54**
 - Setting the TV signal **55**
 - Correcting distorted sound **55**
 - Resetting the audio functions **55**
- Other Functions **56**
- Using the AUX source **56**
 - Switching between digital and analog **56**
 - Using the external unit **57**
 - Using the PGM button **57**
 - Sound muting **58**

03 Available accessories

- Playing songs on iPod **59**
- Basic Operations **59**
 - Browsing for a song **59**
 - Displaying text information on iPod **59**
 - Introduction to advanced operations **59**
 - Playing songs in a random order (shuffle) **59**
 - Information display **60**
- Multi-CD Player **60**
- Basic Operations **60**
 - Selecting a track directly **60**
 - Using CD TEXT functions **61**
 - Introduction to advanced operations **61**
 - Using compression and bass emphasis **62**
 - Using ITS playlists **62**
 - Using disc title functions **63**
- TV tuner **64**

- Basic Operations **64**
- Storing and recalling broadcast stations **64**
- Storing the strongest broadcast stations sequentially **65**

Bluetooth adapter **65**

DVD Player **66**

- Introduction of DVD operation **66**
- Introduction to advanced operations **66**

Digital Signal Processor **67**

- When the separately sold display is connected to this unit **67**
- Introduction of DSP adjustments **67**
- Using balance adjustment **68**
- Using the position selector **68**
- Using the Dolby Pro Logic II **68**
- Using the sound field control **69**
- Using the down-mix function **70**
- Using the dynamic range control **70**
- Using the direct control **70**
- Adjusting source levels **70**
- Using the auto-equalizer **71**
- Auto TA and EQ (auto-time alignment and auto-equalizing) **71**
- Setting the speaker setting **73**
- Selecting a cross-over frequency **74**
- Adjusting the speaker output levels **75**
- Adjusting the speaker output levels using a test tone **76**
- Using the time alignment **76**
- Using the equalizer **77**

Additional Information


- Troubleshooting **79**
- Error messages **81**
- Understanding auto TA and EQ error messages **82**

Understanding messages	83
Handling guideline of discs and player	84
DVD discs	84
DVD-R/DVD-RW discs	84
AVCHD recorded discs	85
CD-R/CD-RW discs	85
Dual Discs	85
USB audio player/USB memory	85
– USB audio player/USB memory compatibility	85
– Handling guideline and supplemental information	85
iPod	87
– About handling the iPod	87
– About iPod settings	87
Compressed audio files on the disc	87
– Example of a hierarchy	88
– Compressed audio compatibility	88
DivX video files	88
– DivX compatibility	89
Russian character chart	89
Language code chart for DVD	90
Terms	91
Specifications	94

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

The tuner frequencies on this unit are allocated for use in Europe, Asia, the Middle East, Africa and Oceania. Use in other areas may result in poor reception. The RDS (radio data system) function operates only in areas with FM stations broadcasting RDS signals.

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.
- 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

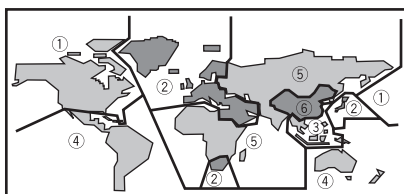
-  is a trademark of DVD Format/Logo Licensing Corporation.
- This player can only play back discs bearing the marks shown above.

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://www.pioneer.co.uk>

- Register your product. We will keep the details of your purchase on file to help you refer to this information in the event of an insurance claim such as loss or theft.
- 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 84.)

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 88.

DivX® video compatibility

Refer to *DivX compatibility* on page 89.

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 85.

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 59.
- 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
	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 52.

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.

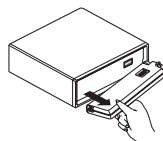
Removing the front panel

- 1 Press **OPEN** to open the front panel.



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

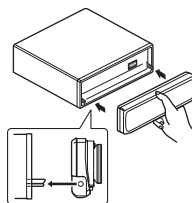
Take care not to grip it too tightly or to drop the front panel and protect it from contact with water or other fluids to prevent permanent damage.



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

Attaching the front panel

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



Resetting the microprocessor

The microprocessor must be reset under the following conditions:

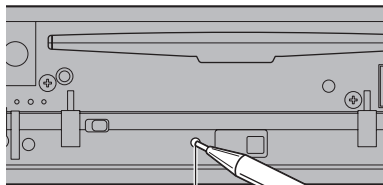
- Prior to using this unit for the first time after installation
- If the unit fails to operate properly
- When strange or incorrect messages appear on the display

- 1 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.**

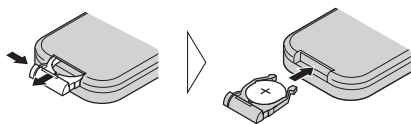
Resetting of the microprocessor is now completed.

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

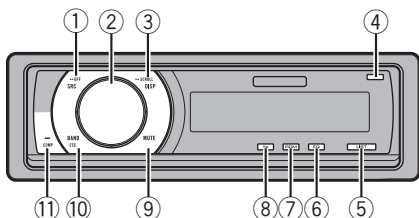
Point the remote control in the direction of the front panel to operate.

- 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 TA/NEWS button

Press to turn TA function on or off. Press and hold to turn NEWS function on or off.

⑨ MUTE button

Press to turn off the sound. To turn on the sound, press again.

- This button is not effective when you connected a Pioneer multi-channel processor (DEQ-P6600) to this unit.

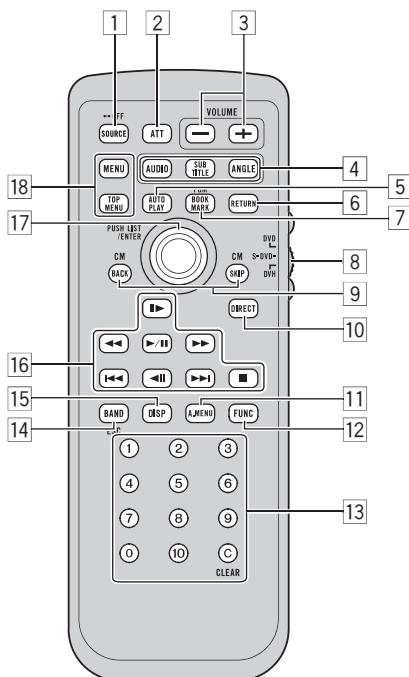
⑩ BAND/ESC button

Press to select among three FM bands and MW/LW bands. 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	SOURCE button	Press to cycle through all the available sources. Press and hold to turn the source off.	
2	ATT button	Press to quickly lower the volume level by about 90%. Press once more to return to the original volume level.	
3	VOLUME buttons	Press to increase or decrease the volume.	
4	AUDIO button	Press to change the audio language during DVD playback.	
	SUBTITLE button	Press to change the subtitle language during DVD playback.	
	ANGLE button	Press to change the viewing angle during DVD playback.	
5	AUTO PLAY button	Press to turn the DVD auto-playback function on or off.	
6	RETURN button	Press to display the PBC (playback control) menu during PBC playback.	
7	BOOKMARK button	Press to operate the preprogrammed functions for each source. (Refer to <i>Using the PGM button</i> on page 57.)	Press to turn the bookmark function on or off. For details, refer to <i>Resume playback (Bookmark)</i> on page 26.

Operating this unit

	Button names	DVH mode	DVD and S-DVD mode
8	Remote control operation mode switch	Switch the operation mode between DVD , S-DVD and DVH modes. Normally, set to DVH . For details, refer to <i>Using the remote control operation mode switch</i> on the next page.	
9	CM BACK/CM SKIP buttons	Press to skip progressively backward/forward through the video playing.	
10	DIRECT button	Press to select channels directly.	Not used.
11	A.MENU button	Press to select various sound quality controls.	
12	FUNCTION button	Press to select functions.	
13	0 to 10 buttons, CLEAR button	Press 0 to 9 to input numbers. Buttons 1 to 6 can operate the preset tuning for the tuner or disc changing for multi-DVD or multi-CD players. Press CLEAR to clear the input numbers.	Press to select a menu item on a video CD featuring PBC (playback control).
14	BAND button	Press to select among three FM bands and MW/LW bands 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 24.)
15	DISPLAY 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	PLAY/PAUSE (▶/⏸) button	Press to switch sequentially between playback and pause.	
	REVERSE (◀◀) button	Press to perform fast reverse.	
	FORWARD (▶▶) button	Press to perform fast forward.	
	PREVIOUS (◀◀) button	Press to return to the previous track (chapter).	
	NEXT (▶▶) button	Press to go to the next track (chapter).	
	STEP (⏪/◀◀) buttons	Press to move ahead one frame at a time during DVD/VideoCD playback. Press and hold for one second to activate slow playback. If a DVD-VR disc contains a still image, press ⏪ while displaying a still image to switch to the next image or video.	
	STOP (■) button	Not used.	Press to stop playback.
17	Move the thumb pad	Functions are the same as MULTI-CONTROL on the head unit. Move to operate fast forward, reverse and track search controls. Also used for controlling functions.	Move to select a menu on the DVD menu.
	Click the thumb pad	Click to display the 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	MENU button	Press to display the DVD menu during DVD playback.	
	TOP MENU 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:

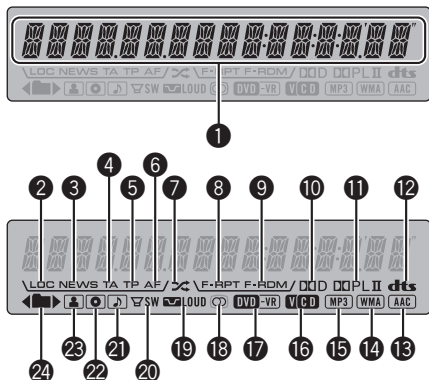
- When operating the DVD menu by using the thumb pad. (Refer to *Operating the DVD menu* on page 25.)
- When operating the PBC menu by using **0** to **10**. (Refer to *PBC playback* on page 25.)
- When specifying title or track by using **0** to **10**. (Refer to *Specifying title* on page 26 and *Specifying track* on page 26.)
- When operating the DVD setup menu by using the thumb pad. (Refer to *Setting up the DVD player* on page 46.)

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.
- RDS
Program service name, PTY information and other literal information 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 NEWS indicator

Appears when NEWS (news program interruption) function is on.

4 TA indicator

Appears when TA (traffic announcement standby) function is on.

5 TP indicator

Appears when a TP station is tuned in.

6 AF indicator

Appears when AF (alternative frequencies search) function is on.

7 Shuffle indicator

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

8 F-RPT indicator

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

9 F-RDM indicator

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

10 DDD (Dolby Digital) indicator

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

11 DDPL II (Dolby Pro Logic II) indicator

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

12 dts (dts) indicator

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

13 AAC (AAC) indicator

Appears when an AAC file is playing.

14 WMA (WMA) indicator

Appears when a WMA file is playing.










15 MP3 (MP3) indicator

Appears when an MP3 file is playing.

16 VCD (Video CD) indicator

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

Operating this unit

- 17**  **indicator**
Appears when a DVD-VR disc is playing.
When a DVD video is playing, only  is displayed.
- 18**  **(stereo) indicator**
Appears when the selected frequency is being broadcast in stereo.
- 19**  **LOUD (loudness) indicator**
Appears when loudness is on.
- 20**  **SW (subwoofer) indicator**
Appears when subwoofer is on.
- 21**  **(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.
- 22**  **(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.
- 23**  **(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.
- 24**  **(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)—**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 52).
- AUX1 is set to **AUDIO** by default. Set the AUX1 to **OFF** when not in use (refer to *Switching the auxiliary setting* on page 52).
- 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-P6600) 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 **MW/LW**.

- **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**.



Note

RDS (radio data system) contains inaudible information that helps search for the radio stations.

- RDS service may not be provided by all stations.
- RDS functions such as AF and TA are only active when your radio is tuned to an RDS station.
- This unit's AF (alternative frequencies search) function can be turned on and off. AF should be off for normal tuning operation (refer to page 20).

Operating this unit

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.

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.

Switching the RDS display

● **Press DISPLAY repeatedly to switch between the following settings:**

Program service name—PTY information—Frequency

PTY (program type ID code) information is listed on page 22.

- PTY information and the frequency appear on the display for eight seconds.
- If a PTY code of zero is received from a station or the signal is too weak for this unit to pick up the PTY code, you cannot switch to PTY information display.

Receiving PTY alarm broadcasts

When the emergency PTY code broadcasts, the unit receives it automatically (**ALARM** appears). When the broadcasting ends, the system returns to the previous source.

- An emergency announcement can be canceled by pressing **TA**.

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)—**REGIONAL** (regional)—**LOCAL** (local seek tuning)—**PTY** (program type selection)—**TRAFFIC** (traffic announcement standby)—**AF** (alternative frequencies search)—**NEWS** (news program interruption)

- You can also select the function by pressing **FUNCTION** on the remote control.
- If MW/LW band is selected, you can only select **BSM** or **LOCAL**.
- 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.

Operating this unit

- 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 the previous 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 the previous 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**

MW/LW: **LEVEL1—LEVEL2**

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

Selecting alternative frequencies

When the tuner cannot get a good reception, the unit automatically searches for a different station in the same network.

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

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

2 Press MULTI-CONTROL to turn AF on.

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



Notes

- Only RDS stations are tuned in during seek tuning or BSM when AF is on.
- When you recall a preset station, the tuner may update the preset station with a new frequency from the station's AF list. (This is only available when using presets on the **FM1** or **FM2** bands.) No preset number appears on the display if the RDS data for the station received differs from that for the originally stored station.
- During AF search, sound may be temporarily interrupted.
- AF can be turned on or off independently for each FM band.

Using PI Seek

If the tuner cannot find a suitable station, or reception status becomes bad, the unit automatically searches for a different station with the same programming. During the search, **PI SEEK** is displayed and the output is muted.

Using Auto PI Seek for preset stations

When preset stations cannot be recalled, the unit can be set to perform PI Seek during preset recall.

- The default setting for Auto PI Seek is off. See *Switching Auto PI Seek* on page 52.

Operating this unit

Limiting stations to regional programming

When AF is used, the regional function limits the selection of stations broadcasting regional programs.

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

Refer to *Introduction to advanced operations* on page 19.

2 Press MULTI-CONTROL to turn the regional function on.

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



Notes

- Regional programming and regional networks are organized differently depending on the country (i.e., they may change according to the hour, state or broadcast area).
- The preset number may disappear from the display if the tuner tunes in a regional station which differs from the originally set station.
- The regional function can be turned on or off independently for each FM band.

Receiving traffic announcements

TA (traffic announcement standby) lets you receive traffic announcements automatically, no matter what source you are listening to. TA can be activated for both a TP station (a station that broadcasts traffic information) or an enhanced other network's TP station (a station carrying information which cross-references TP stations).

1 Tune in a TP or enhanced other network's TP station.

TP indicator lights.

2 Press TA to turn traffic announcement standby on.

- To turn off, press **TA** again.

3 Use MULTI-CONTROL to adjust the TA volume when a traffic announcement begins.

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

4 Press TA while a traffic announcement is being received to cancel the announcement.

The tuner returns to the original source but remains in the standby mode until **TA** is pressed again.



Notes

- You can also turn this function on or off in the menu that appears by using **MULTI-CONTROL**.
- The system switches back to the original source following traffic announcement reception.
- Only TP and enhanced other network's TP stations are tuned in during seek tuning or BSM when TA is on.

Using PTY functions

You can tune in a station by using PTY (program type) information.

Searching for an RDS station by PTY information

You can search for general types of broadcasting programs, such as those listed on the next page.

Operating this unit

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

Refer to *Introduction to advanced operations* on page 19.

2 Push **MULTI-CONTROL** left or right to select a program type.

NEWS/INFO—**POPULAR**—**CLASSICS**—**OTHERS**

3 Press **MULTI-CONTROL** to begin the search.

The unit searches for a station broadcasting that program type. When a station is found, its program service name is displayed.

PTY (program type ID code) information is listed on this page.

- To cancel the search, press **MULTI-CONTROL** again.
- The program of some stations may differ from that indicated by the transmitted PTY.
- If no station is broadcasting the type of program you searched for, **NOT FOUND** is displayed for about two seconds and then the tuner returns to the original station.

Using news program interruption

When a news program is broadcast from a PTY code news station, the unit automatically switches to the news broadcast station. When the news program ends, reception of the previous program resumes.

● Press **NEWS** and hold to turn on news program interruption.

Press **NEWS** until **NEWS ON** appears in the display.

- To turn off news program interruption, press **NEWS** and hold until **NEWS OFF** appears in the display.
- A news program can be canceled by pressing **NEWS**.



Note

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

PTY list

General	Specific	Type of program
NEWS/INFO	NEWS	News
	AFFAIRS	Current affairs
	INFO	General information and advice
	SPORT	Sports
	WEATHER	Weather reports/meteorological information
POPULAR	FINANCE	Stock market reports, commerce, trading, etc.
	POP MUS	Popular music
	ROCK MUS	Contemporary modern music
	EASY MUS	Easy listening music
	OTH MUS	Non-categorized music
	JAZZ	Jazz
	COUNTRY	Country music
	NAT MUS	National music
	OLDIES	Oldies, golden oldies
	FOLK MUS	Folk music
CLASSICS	L.CLASS	Light classical music
	CLASSIC	Classical music

Operating this unit

General	Specific	Type of program
OTHERS	EDUCATE	Educational programs
	DRAMA	Radio plays and serials
	CULTURE	National or regional culture
	SCIENCE	Nature, science and technology
	VARIED	Light entertainment
	CHILDREN	Children's
	SOCIAL	Social affairs
	RELIGION	Religious affairs or services
	PHONE IN	Phone in
	TOURING	Travel programs; not for traffic announcements
LEISURE	Hobbies and recreational activities	
DOCUMENT	Documentaries	



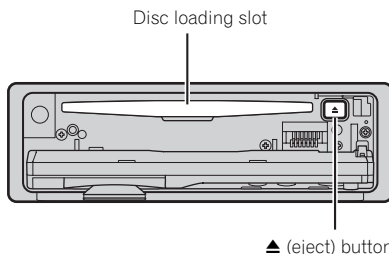
Built-in DVD player

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 29.
- If you are playing a DVD or Video CD, a menu may appear. Refer to *Operating the DVD menu* on page 25 and *PBC playback* on page 25.

● 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 84.
- 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 26.
- 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 this 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.

- 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 81.

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
▶/II	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.
I◀◀	Skips to the start of the current track, chapter or file, then to previous tracks/chapters/files.
▶▶I	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)

Operating this unit

- 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 49.
- DivX VOD content is protected by a DRM (Digital Rights Management) system. This restricts playback of content to specific, registered devices.

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

Playback of the DivX VOD content will start.

- To skip to the next file, press **▶▶**.

- If you do not want to play the DivX VOD content, press **■**.

CM skip/CM back

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

- This function is available for DVD.

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

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

CM back

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

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.

● 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.

Operating this unit

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 46.
- 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 46.
- 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 47.

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.

Operating this unit

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

Each time you press ◀|| or ||▶ 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 ▶/||.
- 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 31).

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.

Operating this unit

- 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 54.

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.
- 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**.

Operating this unit

- 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 this 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 29).

**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 the previous 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 the previous 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.

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 50.)

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

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

Operating this unit

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 31.

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.

Operating this unit

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

Refer to *Introduction to advanced operations* on page 31.

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.

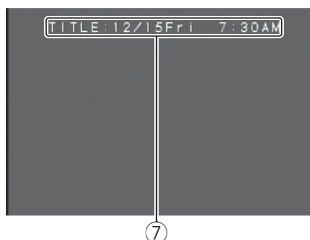
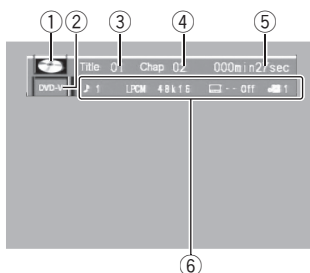
Refer to *Introduction to advanced operations* on page 31.

2 Press MULTI-CONTROL to switch the play mode.

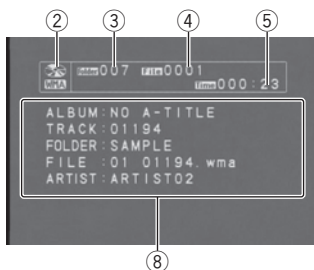
If the play mode is changed, playback starts from the beginning of the selected play mode.

Switching the information display

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



Operating this unit



- 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 81.

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 27.

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 54.

Operating this unit

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 30.

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	Refer to <i>Repeating play</i> on page 31. However, the repeat play ranges you can select are different from that of the built-in DVD player. The repeat play ranges of the USB portable audio player/USB memory are: <ul style="list-style-type: none"> • TRACK – Repeat just the current file • FOLDER – Repeat the current folder • ALL – Repeat all files
RANDOM	Refer to <i>Playing tracks in random order</i> on page 32.
SCAN	Refer to <i>Scanning folders and tracks</i> on page 32.
PAUSE	Refer to <i>Pausing playback</i> on page 33.



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 34.

- 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 87.
- 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 81.
- 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.

- 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.

Operating this unit

- 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 54.

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
REPEAT	Refer to <i>Repeating play</i> on page 31. 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"> • ONE – Repeat the current song • ALL – Repeat all songs in the selected list
PAUSE	Refer to <i>Pausing playback</i> on page 33.

**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 the previous 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**.

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 38.

**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.

Operating this unit

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 page 39.

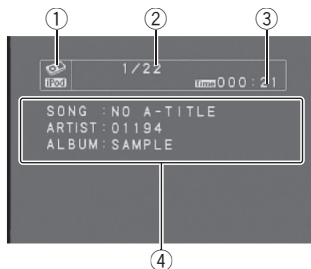
2 Press **MULTI-CONTROL** to select your favorite setting.


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.

- 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 54.

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
POWERFUL	Powerful
NATURAL	Natural
VOCAL	Vocal
CUSTOM	Custom
FLAT	Flat
SUPER BASS	Super bass

Operating this unit

- **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.

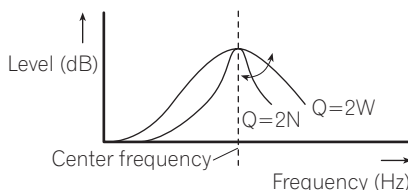
+6 to **-6** is displayed as the level is increased or decreased.

- 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 this 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 the previous page.

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:

Operating this unit

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 42.

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 Use MULTI-CONTROL to select SUB W1.

Refer to *Introduction of audio adjustments* on page 42.

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.

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 Use MULTI-CONTROL to select SUB W2.

Refer to *Introduction of audio adjustments* on page 42.

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.

Operating this unit

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 42.

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.

1 Use MULTI-CONTROL to select BASS BOOST.

Refer to *Introduction of audio adjustments* on page 42.

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

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

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 42.

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 MW/LW 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.

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 28.)
- 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 90, 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 27.)
- 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.

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.

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 32.)
 - 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. 

Operating this unit

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)—**OFF CLOCK** (off clock)—**FM STEP** (FM tuning step)—**AUTO PI** (auto PI seek)—**WARNING** (warning tone)—**AUX1** (auxiliary input1)—**AUX2** (auxiliary input2)—**VIDEO IN** (AV input setting)—**CAMERA** (rear view camera setting)—**ILLUMI** (illumination color)—**REAR SP** (rear output and subwoofer controller)—**EVERSCROLL** (ever scroll)—**TITLE** (multi language)—**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-P6600) 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**.)

Turning the off clock display on or off

If the off clock display is turned on, the clock appears on the display when the sources are off.

- 1 Use **MULTI-CONTROL** to select **OFF CLOCK**. Refer to *Adjusting initial settings* on this page.
- 2 Press **MULTI-CONTROL** to turn the off clock display on.
 - To turn the off clock display off, press **MULTI-CONTROL** again.

Setting the FM tuning step

Normally the FM tuning step employed by seek tuning is 50 kHz. When AF or TA is on, the tuning step automatically changes to 100 kHz. It may be preferable to set the tuning step to 50 kHz when AF is on.

- The tuning step remains at 50 kHz during manual tuning.

1 Use MULTI-CONTROL to select FM STEP.

Refer to *Adjusting initial settings* on the previous 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.

Switching Auto PI Seek

The unit can automatically search for a different station with the same programming, even during preset recall.

1 Use MULTI-CONTROL to select AUTO PI.

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

2 Press MULTI-CONTROL to turn Auto PI seek on.

- To turn Auto PI seek off, press **MULTI-CONTROL** again.

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 56.

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.

Operating this unit

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.
- 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 51.

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-7600) 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 51.

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

Selecting the illumination color

This unit is equipped with two illumination colors, blue and red. You can select the desired illumination color.

1 Use MULTI-CONTROL to select ILLUMI.

Refer to *Adjusting initial settings* on page 51.

2 Press MULTI-CONTROL to select the desired setting.

BLUE (blue)—**RED** (red)

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-P6600) 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 51.

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 44).
- 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 51.

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

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

Multi language display setting

Text information such as title name, artist name or comment can be recorded on a compressed audio disc.

This unit can display them even if they are embedded in a European language or Russian.

- If the embedded language and the selected language setting are not the same, text information may not be displayed properly.
- Some characters may not be displayed properly.

1 Use MULTI-CONTROL to select TITLE.

Refer to *Adjusting initial settings* on page 51.

2 Press MULTI-CONTROL to select the language.

EURO (European language)—**RUSSIA** (Russian language)

Operating this unit

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 51.

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

Correcting distorted sound

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

You can minimize distortion that may be caused by the equalizer curve settings.

Setting an equalizer level high can cause distortion. If high sound is crippled or distorted, try switching to **LOW**. Normally, leave the setting at **HIGH** to ensure quality sound.

1 Use MULTI-CONTROL to select D.ATT.

Refer to *Adjusting initial settings* on page 51.

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-P6600) is connected to this unit, you can operate this function.

You can reset audio functions other than the following settings.

- Volume setting (refer to *Adjusting the volume* on page 18)
- Listening position setting (refer to *Using the position selector* on page 68)
- Fader/balance setting (refer to *Using balance adjustment* on page 68)
- SLA (source level adjustment) setting (refer to *Adjusting source levels* on page 70)
- Dynamic range control (refer to *Using the dynamic range control* on page 70)
- Direct control setting (refer to *Using the direct control* on page 70)
- Down-mix setting (refer to *Using the down-mix function* on page 70)

1 Use MULTI-CONTROL to select AUDIO RESET.

Refer to *Adjusting initial settings* on page 51.

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

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 (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 52.

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 33.

Switching between digital and analog

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

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 52.

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. 

Available accessories

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 38.) 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 39.)

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
REPEAT	Refer to <i>Repeating play</i> on page 31. 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"> ● ONE – Repeat the current song ● ALL – Repeat all songs in the selected list
PAUSE	Refer to <i>Pausing playback</i> on page 33.



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.

- **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 41.) 

**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 63.*

- **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.

Available accessories

For details concerning operation, refer to *Searching for the part you want to play* on page 27.

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 29.

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
REPEAT	Refer to <i>Repeating play</i> on page 31. 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"> • MCD – Repeat all discs in the multi-CD player • TRACK – Repeat just the current track • DISC – Repeat the current disc
RANDOM	Refer to <i>Playing tracks in random order</i> on page 32.
SCAN	Refer to <i>Scanning folders and tracks</i> on page 32.
PAUSE	Refer to <i>Pausing playback</i> on page 33.
TITLE INPUT	Refer to <i>Entering disc titles</i> on page 33.



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.

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.

Available accessories

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 61.

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 61.

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 33.

- 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 29.


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.

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.

Available accessories

- **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-BTB200 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.

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. 

Available accessories

Digital Signal Processor

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

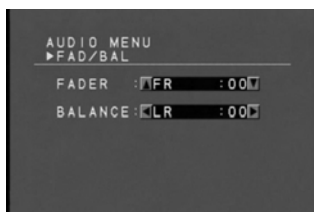
- Some functions may differ depending on the multi-channel processor connected to this unit.

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

- Setting the speaker setting
- Using the position selector
- Auto TA and EQ (auto-time alignment and auto-equalizing)
- Adjusting the time alignment
- Adjusting the speaker output levels using a test tone
- Selecting a cross-over frequency
- Adjusting the speaker output levels
- 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

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

- Use **MULTI-CONTROL** to select **AUDIO**.

Turn to change the menu option. Press to select.

The audio menu is displayed.

- 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**.

- 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	FRONT-L	Front seat left
Right	FRONT-R	Front seat right
Up	FRONT	Front seats
Down	ALL	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 67.

- 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.

- **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 67.

- 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 67.

- 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 67.

- 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.**

Available accessories

2 Use MULTI-CONTROL to select SLA.

Refer to *Introduction of DSP adjustments* on page 67.

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 MW/LW 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 67.

- 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.

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 68.)
 - The equalizer curve switches to **FLAT**. (Refer to page 77.)
 - 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.

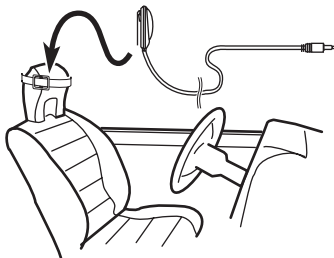
Carrying out auto TA and EQ

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.

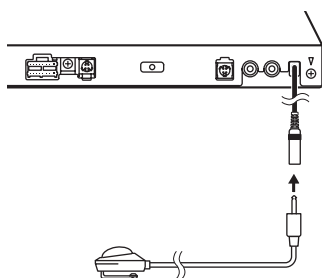
Refer to *Using the position selector* on page 68.

- 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 82.)

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 67.

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 67.

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 67.

Available accessories

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 67.

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 73.)

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.

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 67.

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 73.)

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 67.

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 71.)
- 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 67.

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 68.

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 73.)

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
POWERFUL	Powerful
NATURAL	Natural
VOCAL	Vocal
FLAT	Flat

Display	Equalizer curve
CUSTOM 1	Custom 1
CUSTOM 2	Custom 2
SUPER BASS	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 67.

- 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 73.)

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 84)
	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 48)
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 93)
A parental lock message is displayed and playback is not possible.	Parental lock is on.	Turn parental lock off or change the level. (Page 48)
Parental lock cannot be canceled.	The code number is incorrect.	Input the correct code number. (Page 48)
	You have forgotten your code number.	Press CLEAR 10 times to cancel the code number. (Page 49)
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 46)
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 LINE-AR PCM .	Normally, set the digital output setting to STREAM . (Page 50)



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

Additional Information

USB audio player/USB memory

Message	Cause	Action
CHECK USB	The USB connector or USB cable is short-circuited.	Confirm that the USB connector or USB cable is not caught in something or damaged.
	The connected USB portable audio player/USB memory consumes more than 500 mA (maximum allowable current).	Disconnect the USB portable audio player/USB memory and do not use it. Turn the ignition switch to OFF, then to ACC or ON and then connect the compliant USB portable audio player/USB memory.
N/A USB	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.
NO AUDIO	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.
PROTECT	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.
SKIPPED	The connected USB portable audio player/USB memory contains WMA files that are protected by Windows Media DRM 9/10	Play an audio file not protected by Windows Media DRM 9/10.



Understanding auto TA and EQ error messages

When correct measurement of car interior acoustic characteristics is not possible using the auto TA and EQ, an error message may appear on the display. If an error message appears, refer to the table below to see what the problem is and the suggested method of correcting the problem. After checking, try again.

Message	Cause	Action
ERROR MIC	Microphone is not connected.	Plug the supplied microphone securely into the jack.
ERROR 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	The microphone cannot pick up the measuring tone of a speaker.	<ul style="list-style-type: none"> • Confirm that the speakers are connected correctly. • Correct the input level setting of the power amp connected to the speakers. • Set the microphone correctly.

Additional Information

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



Understanding messages

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



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.

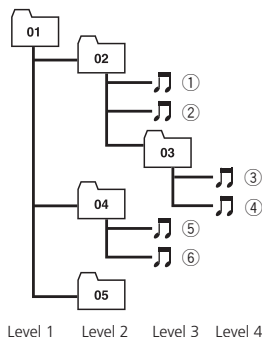
The sequence of audio files on USB memory

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.

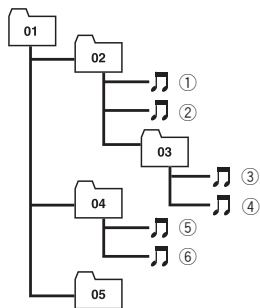
Additional Information

- 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.
- Russian text to be displayed on this unit should be encoded with the following character sets:
 - Unicode (UTF-8, UTF-16)
 - Character sets other than Unicode that are used in Windows environment and are set to Russian in the multi-language setting
- Only 32 characters from the beginning can be displayed as a file name (including the extension such as .wma or .mp3) or a folder name when using Russian text.

Example of a hierarchy

 Folder

 Compressed audio file



Level 1 Level 2 Level 3 Level 4

- 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.

Additional Information

- 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 49.
- File extensions such as .avi or .divx must be used properly.
- For more details about DivX, visit the following site:
<http://www.divx.com/>

D	C	D	C	D	C	D	C
Г	С	Т	Т	У	У	Ф	Ф
Х	Х	Ц	Ц	Ч	Ч	Ш	Ш, Щ
'	Ъ	Ы	Ы	Ь	Ь	Э	Э
Ю	Ю	Я	Я				

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

Russian character chart

D: Display

C: Character

D	C	D	C	D	C	D	C
А	А	Б	Б	В	В	Г	Г
Д	Д	Е	Е, Ё	Ж	Ж	З	З
И, Ё	И, Ё	К	К	Л	Л	М	М
Н	Н	О	О	П	П	Р	Р

Additional Information

Language code chart for DVD

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



Additional Information

Terms

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

Multi-angle

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

Multi-audio (Multilingual dialog)

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

Multi-session

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

Power source	14.4 V DC (10.8 V to 15.1 V allowable)
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	5
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)
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
-----------------------	-----------------------

Additional Information

Usable sensitivity 8 dBf (0.7 μ V/75 Ω mono,
S/N: 30 dB)
Signal-to-noise ratio 75 dB (IEC-A network)

MW tuner


Frequency range 531 kHz to 1 602 kHz (9 kHz)
Usable sensitivity 18 μ V (S/N: 20 dB)
Signal-to-noise ratio 65 dB (IEC-A network)

LW tuner

Frequency range 153 kHz to 281 kHz
Usable sensitivity 30 μ V (S/N: 20 dB)
Signal-to-noise ratio 65 dB (IEC-A network)



Note

Specifications and the design are subject to modifications without notice due to improvements. 

<http://www.pioneer.eu>

Visit **www.pioneer.eu** to register your product.

Посетите **www.pioneer-rus.ru** для регистрации приобретенного Вами изделия.

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