

Operation Manual

DVD RDS RECEIVER

DVH-P590MP

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 4
- DVD video disc region numbers 5
- When an operation is prohibited 7

01 Precautions

To ensure safe driving 3

02 Before You Start

- About this unit 4
- About this manual 5
- Visit our website 5
- In case of trouble 5
- Features 5
- What the marks on DVDs indicate 7
- Protecting your unit from theft 7
- Use and care of the remote control 8

03 Operating this unit

- What's What 10
- Basic Operations 14
 - Tuner 15
 - Playing DVD video discs 19
 - Playing Video CDs 27
 - Playing DivX files 30
 - Playing CDs 35
 - Audio Adjustments 41
- Setting up the DVD player 45
- Initial Settings 50
- Other Functions 54

04 Available accessories

- Playing songs on iPod 57
- Playing songs on USB portable audio player/
USB memory 59
- Multi-CD Player 61
- TV tuner 65

- Bluetooth adapter 67
- Introduction of DVD operation 67
- Digital Signal Processor 68

Additional Information


- Troubleshooting 81
- Error messages 83
- Understanding auto TA and EQ error
messages 84
- Understanding messages 85
- Handling guideline of discs and player 86
 - DVD discs 86
 - DVD-R/DVD-RW discs 86
 - AVCHD recorded discs 87
 - CD-R/CD-RW discs 87
 - Dual Discs 87
- Compressed audio files on the disc 87
- DivX video files 88
- Language code chart for DVD 90
- Russian character chart 91
- Terms 92
- Specifications 95

Precautions

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. 


Before You Start



If you want to dispose this product, do not mix it with general household waste. There is a separate collection system for used electronic products in accordance with legislation that requires proper treatment, recovery and recycling.

Private households in the 25 member states of the EU, in Switzerland and Norway may return their used electronic products free of charge to designated collection facilities or to a retailer (if you purchase a similar new one).

For countries not mentioned above, please contact your local authorities for the correct method of disposal.

By doing so you will ensure that your disposed product undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health. 

About this unit

The tuner frequencies on this unit are allocated for use in Western 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, this unit damage, smoke, and overheat could result from contact with liquids.
- "CLASS 1 LASER PRODUCT"

This product contains a laser diode of higher class than 1. To ensure continued safety, do not remove any covers or attempt to gain access to the inside of the product. Refer all servicing to qualified personnel.

- The Pioneer CarStereo-Pass is for use only in Germany.
- 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.

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



Before You Start

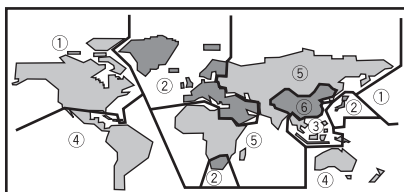
Notes

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

DVD video disc region numbers

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

The illustration below shows the regions and corresponding region numbers.



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:

www.pioneer-eur.com

- 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.

In case of trouble

Should this product fail to operate properly, contact your dealer or nearest authorized Pioneer Service Station.

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 86.)

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.

Before You Start

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.



- “DTS” and “DTS Digital Out” are registered trademarks of DTS, Inc.



iPod® compatibility

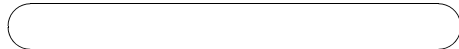
When you use this unit with an interface adapter for iPod (CD-IB100II) (sold separately), you can control an iPod with Dock Connector.

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



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.



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

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

Before You Start

Several applications can be used to encode AAC files, but file formats and extensions differ depending on the application which is used to encode.

This unit plays back AAC files encoded by iTunes® version 6.0.5.

- iTunes is a trademark of Apple Computer, 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.
	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

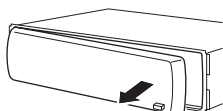
The front panel can be detached to deter theft.

Important

- Never use force or grip the display and the buttons too tightly when removing or attaching.
- Avoid subjecting the front panel to excessive shocks.
- Keep the front panel out of direct sunlight and high temperatures.

Removing the front panel

- 1 Press DETACH to release the front panel.
- 2 Grab the front panel and remove.

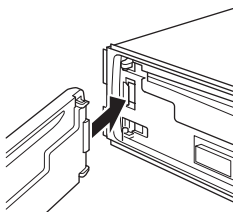


- 3 Put the front panel into provided protective case for safe keeping.

Attaching the front panel

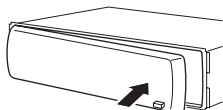
- 1 Slide the front panel to the left until it clicks.

Front panel and the head unit are jointed on the left side. Make sure that the front panel has been jointed to the head unit.



- 2 Press the right side of the front panel until it is firmly seated.

▪ If you can't attach the front panel to the head unit successfully, try again. Front panel may be damaged if you attach the front panel forcedly.

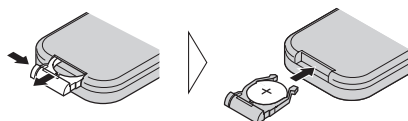


Use and care of the remote control

Installing the battery

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

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



⚠ WARNING

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

⚠ CAUTION

- Use only one **CR2025 (3V)** lithium battery.
- Remove the battery if the remote control is not used for a month or longer.
- Danger of explosion if 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 materials.
- In the event of battery leakage, wipe the remote control completely clean and install a new battery.
- When disposing of used batteries, please comply with governmental regulations or environmental public institutions' rules that apply in your country/area.
- Always check carefully that you are loading the battery with its plus (+) and minus (-) poles facing in the proper directions.

Before You Start


Using the remote control

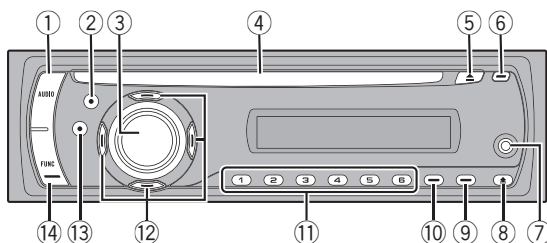
Point the remote control in the direction of the front panel to operate.

- 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 AUDIO button

Press to select various sound quality controls.

② BAND button

Press to select among three FM bands and MW/LW bands and to cancel the control mode of functions.

③ SOURCE button, VOLUME

This unit is turned on by selecting a source. Press to cycle through all the available sources. Rotate it to increase or decrease the volume.

④ Disc loading slot

Insert a disc to play.

⑤ EJECT button

Press to eject a disc from this unit.

⑥ TA button

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

⑦ AUX1 input jack (3.5 mm stereo/video jack)

Use to connect an auxiliary equipment.

⑧ DETACH button

Press to remove the front panel from the head unit.

⑨ EQ button

Press to select various equalizer curves.

⑩ SW button

Press to select the subwoofer setting menu. Press and hold to select the bass boost setting menu.

⑪ 1 to 6 buttons

These buttons can perform the same operation as **NUMBER (1 to 6)** buttons on the remote control. Press for preset tuning and disc number search when using a multi-CD/DVD player.

⑫ ▲/▼/◀/▶ buttons

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

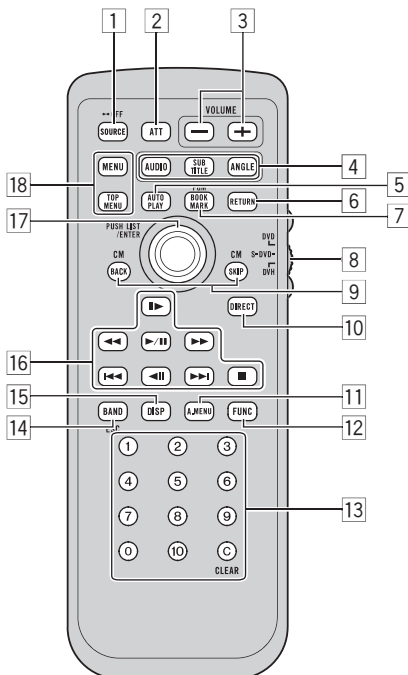
⑬ DISPLAY button

Press to select different displays.

⑭ FUNCTION button

Press to select functions.

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.	

Operating this unit

	Button names	DVH mode	DVD and S-DVD mode
7	BOOKMARK button	Press to operate the preprogrammed functions for each source. (Refer to <i>Using the PGM button</i> on page 56.)	Press to turn the bookmark function on or off. For details, refer to <i>Resume playback (Bookmark)</i> on page 23.
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	Press to skip progressively backward/forward through the video playing.	
10	DIRECT button	Press to do direct channel select.	Not used.
11	A.MENU button	Functions are the same as AUDIO button on the head unit. Press to select various sound quality controls.	
12	FUNCTION button	Press to select functions.	
13	NUMBER button, 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 player or multi-CD player. Press CLEAR to clear the input numbers.	Press to select a menu item on the Video CDs featuring PBC (playback control).
14	BAND button	Press to select among three FM bands and to cancel the control mode of functions.	Press to switch between media file types. (Refer to <i>Switching the media file type</i> on page 15.)
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.

Operating this unit

	Button names	DVH mode	DVD and S-DVD mode
17	Move the Joystick	Functions are the same as ▲/▼/◀/▶ buttons. Move to do fast forward, reverse and track search controls. Also used for controlling functions.	Move to select a menu on the DVD menu.
	Click the Joystick	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.	

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 remote control can control this unit.

DVH mode operation

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

- The joystick on the remote control can perform the same operations as ▲/▼/◀/▶ buttons.
- Numbers (**1** to **6**) can perform the same operations as **1** to **6** buttons on the head unit.
 - If you want to select a disc located at 7 to 12 by using buttons **1** to **6**, press and hold the corresponding numbers, such as **1** for disc 7, until the disc number appears in the display.

DVD mode operation

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

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

- When operating the DVD menu by using the joystick. (Refer to *Basic operation of DVD video* on page 19.)
- When operating the PBC menu by using **0** to **10**. (Refer to *Watching a Video CD* on page 27.)
- When specifying title or track by using **NUMBER**. (Refer to *Specifying title* on page 20 and *Specifying track* on page 27.)
- When operating the DVD setup menu by using the joystick. (Refer to *Setting up the DVD player* on page 45.)

S-DVD mode operation

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

S-DVD mode operation are basically the same as that of the **DVD** mode operation.

If Pioneer DVD player (SDV-P7) is connected to this unit as a source DVD player, remote control code setting should be **A** in the initial settings of SDV-P7. Otherwise, the supplied remote control cannot control SDV-P7.

Basic Operations

Power ON/OFF

Turning the unit on

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

Turning the unit off

- Press **SOURCE** 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 there is no unit corresponding to the selected source connected to this unit.
 - When there is no disc or magazine in the player.
 - When the AUX (auxiliary input) is set to off (refer to page 51).
- AUX1 is set to **AUDIO** by default. Set the AUX1 to **OFF** when not in use (refer to *Switching the auxiliary setting* on page 51).
- External unit refers to a Pioneer product (such as one available in the future) that, although incompatible as a source, enables control of basic functions by this unit. Two external units can be controlled by this unit. When two external units are connected, the allocation of them to external unit 1 or external unit 2 is automatically set by this unit.

- When this unit's blue/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.)

Built-in DVD player basic operations

Playing a disc

- **Insert a disc into the disc loading slot.**
 - If you are playing a DVD or Video CD, a menu may appear. Refer to *Basic operation of DVD video* on page 19 and *Basic operation of Video CD* on page 27.
 - 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 23.
 - You can eject a disc by pressing **EJECT**.



Notes

- The DVD player plays one, standard, 12-cm or 8-cm (single) disc at a time. Do not use an adapter when playing 8-cm discs.
- Do not insert anything other than a disc into the disc loading slot. Discs which can be played back are listed on *Playable discs* on page 4.
- If bookmark function is on, DVD playback resumes from the selected point. For more details, refer to *Resume playback (Bookmark)* on page 23.
- If a disc contains a mixture of various media file types such as DivX and MP3, you can switch between media file types to play. Refer to *Switching the media file type* on the next page.

Operating this unit

- If you cannot insert a disc completely or if after you insert a disc the disc does not play, check that the label side of the disc is up. Press **EJECT** to eject the disc, and check the disc for damage before inserting it again.
- There is sometimes a delay between starting up disc playback and the sound being issued. When being read, **FRMT READ** is displayed.
- If an error message such as **ERROR02-XX** is displayed, refer to *Error messages* on page 83.

Switching the media file type

When playing a disc containing a mixture of various media file types such as DivX and MP3, you can switch between media file types to play.


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

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

Adjusting the volume

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

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

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

Tuner

Basic Operations

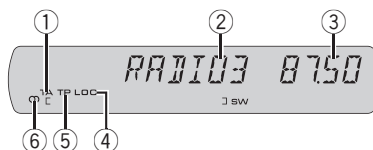
When the separately sold display is connected to this unit, the listed information will appear on it.

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 17).

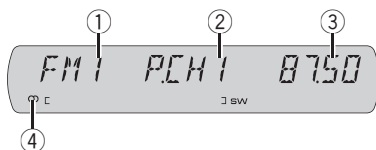
RDS

RDS (radio data system) contains inaudible informations that helps searching of 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.



- ① **TA** indicator
Shows when TA (traffic announcement standby) function is on.
- ② Program service name
- ③ Frequency indicator
- ④ **LOC** indicator
Shows when local seek tuning is on.
- ⑤ **TP** indicator
Shows when a TP station is tuned in.
- ⑥ Stereo (Ⓢ) indicator
Shows when the selected frequency is being broadcast in stereo.

Non-RDS or MW/LW

- ① Band indicator
- ② Preset number indicator
- ③ Frequency indicator
- ④ Stereo (C) indicator
Shows when the selected frequency is being broadcast in stereo.

1 Press SOURCE to select the tuner.**2 Press BAND to select a band.**

Press **BAND** until the desired band is displayed, **FM1**, **FM2**, **FM3** for FM or **MW/LW**.

3 To perform manual tuning, briefly press ◀ or ▶.**4 To perform seek tuning, press and hold ◀ or ▶ for about one second and release.**

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

- You can cancel seek tuning by briefly pressing ◀ or ▶.
- If you press and hold ◀ or ▶ you can skip stations. Seek tuning starts as soon as you release the button.

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.

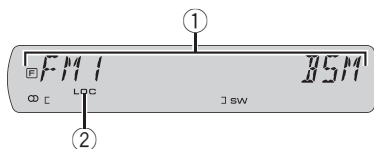
- Up to 18 FM stations, six for each of the three FM bands, and six MW/LW stations can be stored in memory.

- **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 use ▲ and ▼ to recall radio station frequencies assigned to preset tuning buttons **1** to **6**.

Introduction of advanced operations

- ① Function display
Shows the function status.
- ② **LOC** indicator
Shows when local seek tuning is on.

- **Press FUNCTION repeatedly to switch between the following functions:**

BSM (best stations memory)—**REG** (regional)—**LOCAL** (local seek tuning)—**TA** (traffic announcement standby)—**AF** (alternative frequencies search)

- If MW/LW band is selected, you can only select **BSM** or **LOCAL**.
- To return to the frequency display, press **BAND**.
- If you do not operate functions within about 30 seconds, the display is automatically returned to the ordinary display.

Operating this unit

Storing the strongest broadcast frequencies

BSM (best stations memory) lets you automatically store the six strongest broadcast frequencies under preset tuning buttons **1** to **6**. Once stored you can tune in to those frequencies with the touch of button.

- Storing broadcast frequencies with BSM may replace broadcast frequencies you have saved using buttons **1** to **6**.

1 Press FUNCTION to select BSM.

2 Press ▲ to turn BSM on.

Six strongest broadcast frequencies will be stored in the order of their signal strength.

- To cancel the storage process, press ▼.

Tuning in strong signals

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

1 Press FUNCTION to select LOCAL.

2 Press ▲ to turn local seek tuning on.

Local seek sensitivity (e.g., **LOCAL 2**) appears in the display.

- To turn local seek tuning off, press ▼.

3 Press ◀ or ▶ to set the sensitivity.

There are four levels of sensitivity for FM and two levels for MW/LW:

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

MW/LW: **LOCAL 1—LOCAL 2**

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

Selecting alternative frequencies

When the tuner can't get good reception, the unit automatically search for a different station in a same network.

● Press and hold TA repeatedly to turn AF (alternative frequency search) on or off.



Notes

- You can also turn the AF function on or off in the menu that appears with the pressing of **FUNCTION**.
- 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** band.) No preset number appears on the display if the RDS data for the station received differs from that for the originally stored station.
- Sound may be temporarily interrupted by another program during an AF frequency search.
- AF can be turned on or off independently for each FM band.

Using PI Seek

If the tuner can't find a suitable station, or reception status becomes bad, the unit will automatically search for a different station with a 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, as when travelling long distances, 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 51.

Limiting stations to regional programming

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

- 1 Press **FUNCTION** to select **REG**.
- 2 Press **▲** or **▼** to turn the regional function on or off.



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 will light.
- 2 **Press TA to turn traffic announcement standby on.**
 - To turn traffic announcements standby off, press **TA** again.

3 Use **VOLUME** 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.

- You can also cancel the announcement by pressing **SOURCE**, **BAND**, **▲**, **▼**, **◀** or **▶** while a traffic announcement is being received.



Notes

- You can also turn the TA function on or off in the menu that appears with the pressing of **FUNCTION**.
- 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.

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 the next page.

- 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.

Operating this unit

Receiving PTY alarm broadcasts

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

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

PTY list

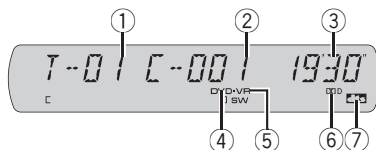
Specific	Type of program
NEWS	News
AFFAIRS	Current affairs
INFO	General information and advice
SPORT	Sports
WEATHER	Weather reports/meteorological information
FINANCE	Stock market reports, commerce, trading, etc.
POP MUS	Popular music
ROCK MUS	Contemporary modern music
EASY MUS	Easy listening music
OTH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



Playing DVD video discs

Watching a DVD video

Read the precautions with discs and player on *Handling guideline of discs and player* on page 86.



- ① Title number indicator
Shows the title currently playing.
- ② Chapter number indicator
Shows the chapter currently playing.
- ③ Play time indicator
Shows the elapsed playing time of the current chapter.
- ④ Media indicator
- ⑤ **DVD/DVD-VR** indicator
- ⑥ Dolby Digital indicator
Shows the Dolby Digital is on when the multi-channel processor (DEQ-P6600) is connected to this unit.
- ⑦ dts indicator
Shows the DTS is on when the multi-channel processor (DEQ-P6600) is connected to this unit.

Basic operation of DVD video

1 Use the joystick to select the desired menu option.

When the DVD offers a menu, a menu is displayed.

- This function is available for DVD video.

2 Click the joystick.

Playback starts from the selected menu item.

- 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.

3 To perform fast forward or reverse, press and hold ◀◀ or ▶▶.

- If you continue pressing ◀◀ or ▶▶ for five seconds, the icon ◀◀ or ▶▶ is highlighted. When this happens, fast reverse/fast forward continues even if you release ◀◀ or ▶▶. To resume playback at a desired point, press ▶/II.
- Fast forward/fast reverse may not be possible at certain locations on some discs. If this happens, normal playback automatically resumes.
- There is no sound on fast forward or reverse.

4 To skip back or forward to another chapter, press I◀◀ or ▶▶I.

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

5 To stop playback, press ■.

- When you stop DVD playback by pressing ■, that location on the disc is memorized enabling playback from that point when you play the disc again.
- To resume playback, press ▶/II.
- If the remote control is set to **DVH**, ■ does not operate.

Specifying title

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

- You cannot operate this function by using **NUMBER** when the remote control is set to **DVH** mode.

● Press NUMBER corresponding to a desired title.

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.

Selecting a chapter directly

When using the remote control, you can select a chapter directly by entering the desired chapter number.

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

1 Press DIRECT.

Chapter number input display appears.

2 Press NUMBER buttons to enter the desired chapter number.

- To select 3, press **3**.
- To select 10, press **1** and **0** in order.
- You can cancel the input number by pressing **CLEAR**.

3 Press DIRECT.

The chapter of entered number will play.



Note

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

Pausing DVD video playback

Pause lets you temporarily stop disc playback.


Operating this unit

● Press ►/II during playback.

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

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

Note

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

Frame-by-frame playback


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

● Press II►.

Each time you press II►, you move ahead one frame.

- To return to normal playback, press ►/II.

Notes

- If a DVD-VR disc contains a still image, press II► while displaying a still image to switch to the next image or video.
- There is no sound during frame-by-frame playback.
- Depending on the disc and the playback location on the disc, the icon  may be displayed, indicating that frame-by-frame playback is not possible.
- With some discs, images may be unclear during frame-by-frame playback.
- Reverse frame-by-frame playback is not possible.

Slow motion playback

This lets you slow down playback speed.

1 Press II► and hold during playback.

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


- To return to normal playback, press ►/II.

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

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

1/16—1/8—1/4—1/2


Notes

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

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.


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**

- The number in the  mark on a DVD's package indicates the number of recorded languages/audio systems.
- With some DVDs, switching between languages/audio systems may only be possible using a menu display.
- You can also switch between languages/audio systems using DVD setup menu. For details, refer to *Setting the audio language* on page 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.

Changing the subtitle language during playback (Multi-subtitle)

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


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**

- The number in the  mark on a DVD's package indicates the number of recorded subtitle languages.
- With some DVDs, switching between subtitle languages may only be possible using a menu display.


- You can also switch between subtitle languages using DVD setup menu. For details, refer to *Setting the subtitle language* on page 46.

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 **SET-UP 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**.

**Notes**

- The  mark on a DVD's package indicates it features multi-angle scenes. The number in the  mark indicates the number of angles from which scenes were shot.
- Pressing **ANGLE** during fast forward/fast reverse, pause or slow motion playback returns you to normal playback, but the viewing angle does not change.

Operating this unit

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**.

Automatic playback of DVDs

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

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

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

A.PLAY ON is displayed.

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

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.

- **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.

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.

Selecting the title list

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

The title list lets you see the list of titles on a playing DVD-VR disc. The title list is displayed when playing DVD-VR disc with both original mode and playlist mode. You can easily select a desired title from the title list.

- This function is available for DVD-VR.
- You can also use the function menu to display the title name list. Titles can also be selected by using the ▲/▼/◀/▶ buttons on the head unit. Refer to *Selecting the title list* on the next page.

1 Click the joystick to display the list of titles.

2 Move the joystick up or down to change the desired title.

3 Move the joystick right to select the desired title.

When you select the title, that selection will begin to play.

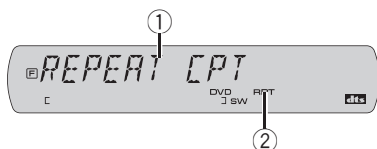
- You can also select the title by clicking the joystick.

4 Press DISPLAY to return to the ordinary display.

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

Introduction of advanced operations

Following functions can be operated during playback.



- ① Function display
Shows the function status.

② **RPT** indicator

Shows when repeat range is selected to current chapter (title).

● **Press FUNCTION to display the function names.**

Press **FUNCTION** repeatedly to switch between the following functions:

For DVD video

REPEAT (repeat play)—**LR SEL** (audio output)

—**PAUSE** (pause)—**COMP** (compression)

For DVD-VR discs

REPEAT (repeat play)—**LR SEL** (audio output)

—**PAUSE** (pause)—item list—**COMP** (compression)—**PLAYLIST** (playlist)

- To return to the playback display, press **BAND**.
- If you do not operate the function within about 30 seconds, the display is automatically returned to the playback display.

Repeating play

There are three repeat play ranges for the DVD playback: **DSC** (disc repeat), **CPT** (chapter repeat), and **TTL** (title repeat).

1 Press FUNCTION to select REPEAT.

2 Press ◀ or ▶ to select the repeat range.

- **DSC** – Repeat the current disc
- **TTL** – Repeat just the current title
- **CPT** – Repeat just the current chapter
- If you perform chapter search or fast forward/reverse during **CPT**, the repeat play range changes to **DSC**.
- You cannot operate repeating play when **DVD AUTO PLAY** is on (refer to *Automatic playback of DVDs* on the previous page).

Selecting audio output

When playing DVD video discs recorded with LPCM audio, you can switch the audio output.

1 Press FUNCTION to select LR SEL.

Operating this unit

2 Press ◀ or ▶ 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

This function is possible only with Linear PCM sound.

Pausing DVD video playback

Pause lets you temporarily stop disc playback.

1 Press FUNCTION to select PAUSE.

2 Press ▲ to turn pause on.

Playback of the current track pauses.

- To turn pause off, press ▼.

Selecting the title list

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

The title list lets you see the list of titles on a playing DVD-VR disc. The title list is displayed when playing DVD-VR disc with both original mode and playlist mode. You can easily select a desired title from the title list.

- This function is available for DVD-VR.
- You can also display the title name list by clicking the joystick. Titles can also be selected by using the joystick. Refer to *Selecting the title list* on page 23.

1 Press FUNCTION to select the title list.

Press **FUNCTION** until the title list appears in the display.

2 Press ▲ or ▼ to scroll through the list of titles.

3 Press ▶ to select the desired title.

When you select the title, that selection will begin to play.

4 Press DISPLAY to return to the ordinary display.

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

Using compression

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

1 Press FUNCTION to select COMP.

2 Press ▲ or ▼ to select your favorite setting.

COMP OFF—COMP 1—COMP 2

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.
- **PLAYLIST** can only be selected when a disc that has a playlist is played.
- This function is available for DVD-VR.

1 Press FUNCTION to select the play mode.

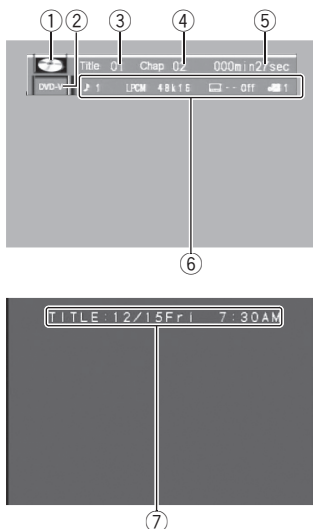
Press **FUNCTION** until **ORIGINAL** or **PLAYLIST** appears in the display.

2 Press ◀ or ▶ to select the play mode. ORIGINAL—PLAYLIST

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

Switching the information and title display

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



- ① Disc icon
- ② Media indicator
- ③ Title number indicator
- ④ Chapter number indicator
- 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.

- ⑦ Title display
- Shows the name of the currently playing title.

● 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

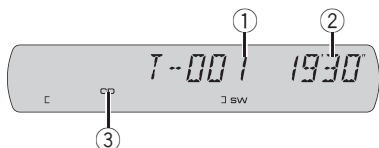
- Text information on the Title display does not scroll. 

Operating this unit

Playing Video CDs

Watching a Video CD

Read the precautions with discs and player on *Handling guideline of discs and player* on page 86.



- ① Track number indicator
Shows the track number currently playing.
- ② Play time indicator
Shows the elapsed playing time of the current track.
- ③ Media indicator

Basic operation of Video CD

1 Press NUMBER to select the desired menu option.

When a Video CD featuring the PBC (playback control) function starts playing, a menu is displayed.

- Playback starts from the selected menu item.
- When the menu is two or more pages long, press **I◀◀** or **▶▶I** to switch between displays.
- 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.
- Operation with the joystick is not possible.

2 To perform fast forward or reverse, press and hold ◀◀ or ▶▶.

- If you continue pressing ◀◀ or ▶▶ for five seconds, the icon ◀◀ or ▶▶ is highlighted. When this happens, fast reverse/fast forward con-

tinues even if you release ◀◀ or ▶▶. To resume playback at a desired point, press ▶/II.

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

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

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

Track numbers are displayed for eight seconds.

- Using **NUMBER** also performs the same operation. For more details, refer to *Specifying track* on this page.

4 To stop playback, press ■.

- When you stop Video CD playback by pressing **■**, that location on the disc is memorized enabling playback from that point when you play the disc again.
- To resume playback, press ▶/II.
- If the remote control is set to **DVH**, **■** does not operate.

Specifying track

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


- You cannot operate this function by using **NUMBER** when the remote control is set to **DVH** mode.

● Press NUMBER corresponding to a desired track.

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.

**Notes**

- With some discs, the icon  may be displayed and operation may not be possible.
- With Video CD, direct search is not possible during PBC playback.

Selecting a track directly

When using the remote control, you can select a track directly by entering the desired track number.

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

1 Press DIRECT.

Track number input display appears.

2 Press 0 to 9 buttons to enter the desired track number.

- To select 3, press **3**.
- To select 10, press **1** and **0** in order.
- You can cancel the input number by pressing **CLEAR**.

3 Press DIRECT.

The track of entered number will play.


**Notes**

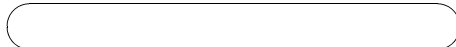
- After entering the number input mode, if you do not perform an operation within about eight seconds, the mode is automatically canceled.
- During playback of Video CDs featuring PBC (playback control), this function cannot be operated.

Pausing Video CD playback

Pause lets you temporarily stop disc playback.


• Press ►/II during playback.

The icon  is displayed and playback is paused, letting you view a still image.



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

**Note**

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

Frame-by-frame playback


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

• Press II►.

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

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


**Notes**

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

Slow motion playback

This lets you slow down playback speed.

1 Press II► and hold during playback.

The icon  is displayed, forward slow motion playback begins.

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


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

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

Operating this unit

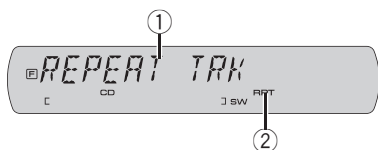
1/16—1/8—1/4—1/2

Notes

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

Introduction of advanced operations

Following functions can be operated during playback.



- ① **Function display**
Shows the function status.
- ② **RPT indicator**
Shows when repeat range is selected to current track.

● Press FUNCTION to display the function names.

Press **FUNCTION** repeatedly to switch between the following functions:

REPEAT (repeat play)—**LR SEL** (audio output)—**PAUSE** (pause)—**COMP** (compression)

- During PBC (Playback Control) playback, you cannot select **REPEAT**.
- To return to the playback display, press **BAND**.
- If you do not operate the function within about 30 seconds, the display is automatically returned to the playback display.

Repeating play

Repeat play lets you play the same track over again.

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

1 Press FUNCTION to select REPEAT.

2 Press ◀ or ▶ to select the repeat range.

- **DSC** – Repeat the current disc
- **TRK** – Repeat just the current track
 - If you perform track search or fast forward/reverse, the repeat play range changes to **DSC**.

Selecting audio output

You can switch between stereo and monaural audio output.

1 Press FUNCTION to select LR SEL.

2 Press ◀ or ▶ 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

Pausing playback

Pause lets you temporarily stop disc playback.

1 Press FUNCTION to select PAUSE.

2 Press ▲ to turn pause on.

Playback of the current track pauses.

- To turn pause off, press ▼.

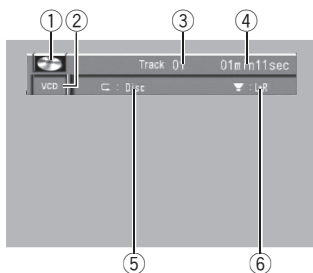
Using compression

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

- 1 Press **FUNCTION** to select **COMP**.
- 2 Press **▲** or **▼** to select your favorite setting.
COMP OFF—COMP 1—COMP 2

Switching the information display

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



- ① Disc icon
- ② Media indicator
- ③ Track number indicator
- ④ Play time indicator
- ⑤ Repeat indicator
- ⑥ Speaker output channel indicator

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

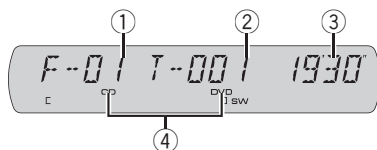
Press **DISPLAY** repeatedly to switch between the following display modes:

Information display—Normal playback display

Playing DivX files

Watching a DivX

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



- ① Folder number indicator
Shows the folder number currently playing.
- ② File number indicator
Shows the file number currently playing.
- ③ Play time indicator
Shows the elapsed playing time of the current file.
- ④ Media indicator

Basic Operations

1 Press **▲** or **▼** to select a folder.

- To return to folder **01** (ROOT), press and hold **BAND**. However, if folder **01** (ROOT) contains no files, playback commences with folder **02**.

2 To perform fast forward or reverse, press and hold **◀◀** or **▶▶**.

If you continue pressing **◀◀** or **▶▶** for five seconds, the icon **◀◀** or **▶▶** is highlighted. When this happens, fast reverse/fast forward continues even if you release **◀◀** or **▶▶**. To resume playback at a desired point, press **▶/||**.

- Fast forward/fast reverse may not be possible at certain locations on some discs. If this happens, normal playback automatically resumes.
- This is fast forward and reverse operation only for the file being played. This operation is canceled when the previous or next file is reached.

Operating this unit

3 To skip back or forward to another file, press ◀◀ or ▶▶.

Pressing ▶▶ skips to the start of the next file. Pressing ◀◀ once skips to the start of the current file. Pressing again will skip to the previous file.

Track numbers are displayed for eight seconds.

4 To stop playback, press ■.

- To resume playback, press ▶/II.
- If the remote control is set to DVH, ■ does not operate.

Notes

- This DVD player can play back a DivX file recorded on CD-R/RW/ROM and DVD-R/RW/ROM. (Refer to page 88 for files that can be played back.)
- 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.)
- There is no sound on fast forward or reverse.

Selecting a file directly

When using the remote control, you can select a file directly by entering the desired file number.

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

1 Press DIRECT.

File number input display appears.

2 Press 0 to 9 buttons to enter the desired file number.

- You can cancel the input number by pressing CLEAR.

3 Press DIRECT.

The file of entered number will play.

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

Playing DivX® VOD content

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

Pausing playback


Pause lets you temporarily stop disc playback.

- **Press ►/II during playback.**

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

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

Note

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

Frame-by-frame playback


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

- **Press III►.**

Each time you press **III►**, you move ahead one frame.

- To return to normal playback, press ►/II.

Notes

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

Slow motion playback


When playing DivX video file, this lets you slow down playback speed.

- **Press II► and hold during playback.**

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

- To return to normal playback, press ►/II.


Notes

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

Changing audio language during playback (Multi-audio)

When playing a DivX video disc recorded with dialog in two or more languages, you can switch audio language during playback.

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**.

Note

Pressing **AUDIO** during fast forward/fast reverse, pause or slow motion playback returns you to normal playback.

Operating this unit

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.

- You can also use the function menu to display the list of files (or folders). File can also be selected by using the ▲/▼/◀/▶ buttons on the head unit. Refer to *Selecting files from the file name list* on the next page.

1 Click the joystick to display the list of files (or folders).

2 Move the joystick up or down to change the list of file names (or folder names).

3 Move the joystick right to select the desired file name (or folder name).

When you select a file, the selection will begin to play.

When you select a folder, a list of files (or folders) in the selected folder appears in the display.

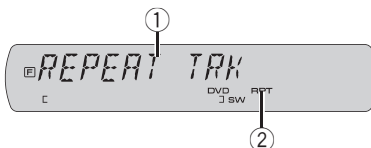
- You can also select a file name (or folder name) by clicking the joystick.
- To return to the previous list (the folder one level higher), move the joystick left.

4 Press DISPLAY to return to the ordinary display.

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

Introduction of advanced operations

Following functions can be operated during playback.



- Function display
Shows the function status.
- RPT indicator
Shows when repeat range is selected to **TRK** or **FLD**.

● Press FUNCTION to display the function names.

Press **FUNCTION** repeatedly to switch between the following functions:

REPEAT (repeat play)—**PAUSE** (pause)—item list—**COMP** (comp)

- To return to the playback display, press **BAND**.
- If you do not operate the function within about 30 seconds, the display is automatically returned to the playback display.

Repeating play

For DivX video file playback, there are three repeat play ranges: **FLD** (folder repeat), **TRK** (file repeat) and **DSC** (repeat all files).

1 Press FUNCTION to select REPEAT.

2 Press ◀ or ▶ to select the repeat range.

- DSC** – Repeat all files
- TRK** – Repeat just the current file
- FLD** – Repeat the current folder
- If you perform file search or fast forward/reverse during **TRK**, the repeat play range changes to **FLD**.

- If you select another folder during repeat play, the repeat play range changes to disc repeat.
- When **FLD** (folder repeat) is selected, it is not possible to play back a subfolder of that folder.

Pausing playback

Pause lets you temporarily stop disc playback.

1 Press **FUNCTION** to select **PAUSE**.

2 Press **▲** to turn pause on.

Playback of the current file pauses.

- To turn pause off, press **▼**.

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.

- You can also display the list of files (or folders) by clicking the joystick. File can also be selected by using the joystick. Refer to *Selecting files from the file name list* on the previous page.

1 Press **FUNCTION** to select a file name list.

Press **FUNCTION** until the names of files or folders appears in the display.

2 Press **▲** or **▼** to scroll through the list of file names (or folder names).

3 Press **▶** to select the desired file name (or folder name).

When you select a file, the selection will begin to play.

When you select a folder, a list of files (or folders) in the selected folder appears in the display.

- To return to the previous list (the folder one level higher), press **◀**.

4 Press **DISPLAY** to return to the ordinary display.

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

Using compression

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

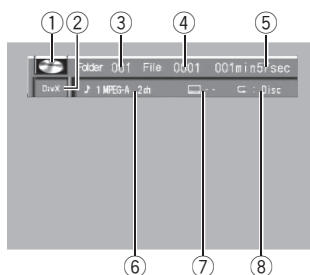
1 Press **FUNCTION** to select **COMP**.

2 Press **▲** or **▼** to select your favorite setting.

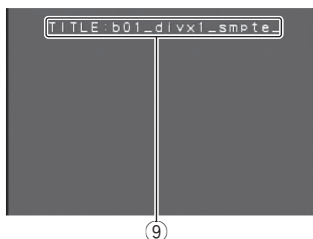
COMP OFF—COMP 1—COMP 2

Switching the information and title 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 Folder number indicator
- ④ File number indicator
- ⑤ Play time indicator
- ⑥ Audio system inecator
- ⑦ Subtitle number indicator
- ⑧ Repeat indicator
- ⑨ Title display
Shows the name of the currently playing file.

● Press DISPLAY to switch the information display.

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

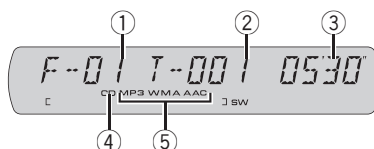
Information display—Title display—Normal playback display

- Text information on the Title display does not scroll. 

Playing CDs

Listening to a CD

Read the precautions with discs and player on *Handling guideline of discs and player* on page 86.



- ① Folder number indicator
Shows the folder number currently playing when the compressed audio is playing.
- ② Track (file) number indicator
- ③ Play time indicator
- ④ Media indicator
- ⑤ **MP3/WMA/AAC** indicator
Shows the type of audio file currently playing when the compressed audio is playing.

Basic Operations

1 Press ▲ or ▼ to select a folder when playing a compressed audio.

- You cannot select a folder that does not have a compressed audio file recorded in it.
- To return to folder 01 (ROOT), press and hold **BAND**. However, if folder 01 (ROOT) contains no files, playback commences with folder 02.

2 To perform fast forward or reverse, press and hold ◀ or ▶.

- You can also perform fast forward or reverse by pressing and holding ◀◀ or ▶▶ on the remote control.
- If you select **ROUGH**, pressing and holding ◀ or ▶ enables you to search every 10 tracks in the current folder. (Refer to *Searching every 10 tracks in the current disc or folder* on page 40.)

Operating this unit

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

- You can also skip back or forward to another track by pressing ◀◀ or ▶▶ on the remote control.



Notes

- There is sometimes a delay between starting up disc playback and the sound being issued. When being read, **FRMT READ** is displayed.
- If an error message such as **ERROR02-XX** is displayed, refer to *Error messages* on page 83.
- When playing CD-EXTRA or MIXED-MODE CDs, compressed audio and CD-DA can be switched by pressing **BAND**.
- If you have switched between compressed audio and CD-DA, playback starts at the first track on the disc.
- When playing back VBR (variable bit rate) recorded files, elapsed play time may not be displayed correctly.
- When playing compressed audio, there is no sound on fast forward or reverse.
- 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.)

Selecting a track directly

When using the remote control, you can select a track directly by entering the desired track number.

- To perform this function, set the remote control to **DVH** mode.
- When audio files are being played back, you can select track in the current folder.

1 Press DIRECT.

Track number input display appears.

2 Press 0 to 9 buttons to enter the desired track number.

- You can cancel the input number by pressing **CLEAR**.

3 Press DIRECT.

The track of entered number will play.

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

Pausing playback

Pause lets you temporarily stop disc playback.

● Press ▶/II during playback.

The icon **II** is displayed and playback is paused.

- To resume playback at the same point that you turned pause on, press ▶/II again.

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 will be displayed.

Entering disc titles

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

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

2 Press FUNCTION and hold until TITLE IN appears in the display.

- When playing a CD TEXT disc, you cannot switch to disc title input display. The disc title will have already been recorded on a CD TEXT disc.
- When playing compressed audio disc, you cannot switch to disc title input display.

Operating this unit

3 Press ▲ or ▼ to select a letter of the alphabet.

Each press of ▲ will display alphabet, numbers or symbols in ascending order (A B C ...). Each press of ▼ will display a letter in descending order.

4 Press ► to move the cursor to the next character position.

When the letter you want is displayed, press ► to move the cursor to the next position and then select the next letter. Press ◀ to move backwards in the display.

5 Move the cursor to the last position by pressing ► after entering the title.

When you press ► one more time, the entered title is stored in memory.

6 Press BAND to return to the playback display.



Notes

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

Displaying text information on disc

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

● Press DISPLAY to select the desired text information.

For title entered CD

Track number—**DISC TITLE** (disc title)

For CD TEXT discs

Track number—**DISC TITLE** (disc title)—

DSC ARTIST (disc artist name)—**TRK TITLE** (track title)—**TRK ARTIST** (track artist name)

For WMA/MP3/AAC discs

Folder number and file number—**ALBM TITLE** (album title)—**TRK TITLE** (track title)—

FLDR NAME (folder name)—**FILE NAME** (file name)—**ART NAME** (artist name)

- When the separately sold display is connected to this unit, the information of currently playing disc will appear on it.
- Elapsed play time is always shown on the display.



Notes

- You can scroll to the left of the title by pressing and holding **DISPLAY**.
- Audio CD that contains certain information such as text and/or number is CD TEXT.
- If specific information has not been recorded on a disc, **NO XXXX** will be displayed (e.g., **NO NAME**).
- Depending on the version of Windows Media Player used to encode WMA files, album names and other text information may not be correctly displayed.
- When Ever Scroll is set to ON at the initial setting, text information scrolls continuously in the display. Refer to *Switching the Ever Scroll* on page 53.

Selecting tracks from the track title list

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

Operating this unit

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

- You can also use the function menu to display the track name list. Tracks can also be selected by using ▲/▼/◀/▶ buttons on the head unit. Refer to *Selecting tracks from the list* on the next page.

1 Click the joystick to display the list of track titles.

2 Move the joystick up or down to change the desired track title.

3 Move the joystick right to select the desired track title.

When you select a track, the selection will begin to play.

- You can also select the track by clicking the joystick.

4 Press DISPLAY to return to the ordinary display.

Selecting tracks 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.

- You can also use the function menu to display the list of files (or folders). File can also be selected by using the ▲/▼/◀/▶ buttons on the head unit. Refer to *Selecting tracks from the list* on the next page.

1 Click the joystick to display the list of files (or folders).

2 Move the joystick up or down to change the list of file names (or folder names).

3 Move the joystick right to select the desired file name (or folder name).

When you select a file, the selection will begin to play.

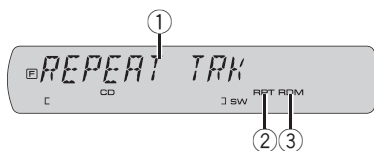
When you select a folder, a list of files (or folders) in the selected folder appears in the display.

- You can also select a file name (or folder name) by clicking the joystick.
- To return to the previous list (the folder one level higher), move the joystick left.

4 Press DISPLAY to return to the ordinary display.

Introduction of advanced operations

Following functions can be operated during playback.



- Function display**
Shows the function status.
- RPT indicator**
Shows when repeat range is selected to **TRK** or **FLD**.
- RDM indicator**
Shows when random play is on.

- Press **FUNCTION** repeatedly to switch between the following functions: **REPEAT** (repeat play)—**RANDOM** (random play)—**SCAN** (scan play)—**PAUSE** (pause)—item list—**SCH** (search method)—**COMP** (compression)

Operating this unit

- To return to the ordinary display, press **BAND**.

Selecting a repeat play range

Repeat play plays the same track/folder within the selected repeat play range.

Also, the repeat range determines the range of random play and scan play.

1 Press **FUNCTION** to select **REPEAT**.

2 Press **◀** or **▶** to select the repeat range.

- **DSC** – Repeat all tracks
- **TRK** – Repeat just the current track
- **FLD** – Repeat the current folder
- If you select another folder during repeat play, the repeat play range changes to disc repeat.
 - When playing CD, performing track search or fast forward/reverse cancels the repeat play automatically.
 - When playing compressed audio, performing track search or fast forward/reverse during **TRK** (track repeat) changes the repeat play range to folder repeat.
 - When **FLD** (folder repeat) is selected, it is not possible to play back a subfolder of that folder.

Playing tracks in random order

Random play plays tracks in a random order within the selected repeat range.

Refer to *Repeating play* on page 24.

1 Press **FUNCTION** to select **RANDOM**.

2 Press **▲** to turn random play on.

Tracks will play in a random order.

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

Scanning folders and tracks

Scan play searches the song within the selected repeat range.

Refer to *Repeating play* on page 24.

1 Press **FUNCTION** to select **SCAN**.

2 Press **▲** to turn scan play on.

The first 10 seconds of each track is played.

3 When you find the desired track (or folder) press **▼** to turn scan play off.

- If the display has automatically returned to the playback display, select **SCAN** again by pressing **FUNCTION**.
- After scanning of a disc (folder) is finished, normal playback of the tracks will begin again.

Pausing disc playback

1 Press **FUNCTION** to select **PAUSE**.

2 Press **▲** to turn pause on.

Playback of the current track pauses.

- To turn pause off, press **▼**.
- Press **▶/||** on the remote control repeatedly during playback to turn pause on or off.

Selecting tracks from the list

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

For **CD TEXT** discs

- You can also display the track name list by clicking the joystick. Tracks can also be selected by using the joystick. Refer to *Selecting tracks from the track title list* on page 37.
 - 1 Press **FUNCTION** to select the track title list. Press **FUNCTION** until the track title list appears in the display.
 - 2 Press **▲** or **▼** to scroll through the list of track titles.
 - 3 Press **▶** to select the desired track title. When you select a track, the selection will begin to play.
 - 4 Press **DISPLAY** to return to the ordinary display.

For WMA/MP3/AAC discs

- You can also display the list of files (or folders) by clicking the joystick. File can also be selected by using the joystick. Refer to *Selecting tracks from the file name list* on page 38.
- Press **FUNCTION** to select a file name list. Press **FUNCTION** until the names of files or folders appears in the display.
 - Press **▲** or **▼** to scroll through the list of file names (or folder names).
 - Press **▶** to select the desired file name (or folder name).
When you select a file, the selection will begin to play.
When you select a folder, a list of files (or folders) in the selected folder appears in the display.
 - To return to the previous list (the folder one level higher), press **◀**.
 - Press **DISPLAY** to return to the ordinary display.

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.

- Press **FUNCTION** to select **SCH**.
- Press **▶** to select **ROUGH**.
 - FF/REV** – Fast forward and reverse
 - ROUGH** – Searching every 10 tracks
 - To select **FF/REV**, press **◀**.
- Press **BAND** to return to the playback display.
- Press and hold **◀** or **▶** to search every 10 tracks on a disc (folder).
 - If the rest of track number is less than 10, press and hold **◀** or **▶** recalls the first (last) one.

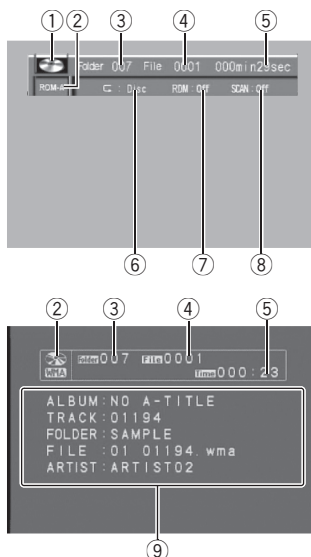
Using compression

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

- Press **FUNCTION** to select **COMP**.
- Press **▲** or **▼** to select your favorite setting.
COMP OFF—COMP 1—COMP 2

Switching the information and title display

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



- Disc icon
When playing a disc containing various data format, **MIXED** appear on it.
- Media indicator
- Folder number indicator
- Track (file) number indicator
- Play time indicator

Operating this unit

- ⑥ Repeat indicator
- ⑦ Random indicator
- ⑧ Scan indicator
- ⑨ Title display
 - 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.**

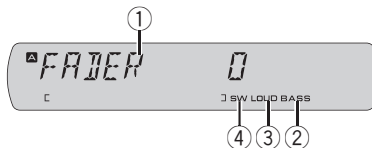
Press **DISPLAY** repeatedly to switch between the following display modes:

- **Information display—Title display**

- Pressing **DISPLAY** button on the Title display switches text information on the head unit. In this case, text information on the Title display remains unchanged.
- Text information on the Title display does not scroll.

Audio Adjustments

Introduction of audio adjustments



- ① **Audio display**
Shows the audio adjustment status.
- ② **BASS** indicator
Shows when the bass boost is in effect.
- ③ **LOUD** indicator
Appears in the display when loudness is turned on.
- ④ **SW** indicator
Shows when the subwoofer output is turned on.

- **Press AUDIO to display the audio function names.**

Press **AUDIO** repeatedly to switch between the following audio functions:

FADER (balance adjustment)—**PWRFL** (graphic equalizer adjustment)—**50HZ 0** (7-band graphic equalizer adjustment)—**LOUD** (loudness)—**SUB.W** (subwoofer on/off setting)—**80HZ 0** (subwoofer setting)—**BASS** (bass boost)—**HPF** (high pass filter)—**SLA** (source level adjustment)

- You can also use **A.MENU** button on the remote control to select an audio menu.
- When the rear output setting is **R-SP S/W**, you cannot adjust front/rear speaker balance. Refer to *Setting the rear output and subwoofer controller* on page 53.
 - You can select the **80HZ 0** only when subwoofer output is turned on in **SUB.W**.
 - When selecting the 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 you an ideal listening environment in all occupied seats.

1 Press **AUDIO** to select **FADER**.

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

2 Press **▲** or **▼** 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 0** is the proper setting when only two speakers are used.

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

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

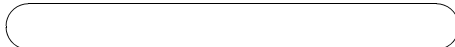
Using the equalizer

The equalizer lets you adjust the equalization to match car 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 (PWRFL)	Powerful
NATURAL	Natural
VOCAL	Vocal



Display	Equalizer curve
CUSTOM 1	Custom 1
CUSTOM 2	Custom 2
EQ FLAT	Flat
SUPER BASS (S-BASS)	Super bass

- **CUSTOM 1** and **CUSTOM 2** are adjusted equalizer curves that you create. Adjustments can be made with a 7-band graphic equalizer.
- When **EQ 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 **EQ FLAT** and a set equalizer curve.

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

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

POWERFUL (PWRFL)—**NATURAL**—**VOCAL**—**CUSTOM 1**—**CUSTOM 2**—**EQ FLAT**—**SUPER BASS (S-BASS)**

Adjusting equalizer curves

The factory supplied equalizer curves, with the exception of **EQ FLAT**, can be adjusted to a fine degree (nuance control).

1 Press **AUDIO** to select **PWRFL**.

PWRFL appears in the display.

If the equalizer curve has been previously selected, the curve of that previously selected will be displayed instead of **PWRFL**.

2 Press **◀** or **▶** to select an equalizer curve.

3 Press **▲** or **▼** to adjust the equalizer curve.

Each press of **▲** or **▼** increases or decreases the equalizer curve respectively.

Operating this unit

+6 to **-4** (or **-6**) is displayed as the equalizer curve is increased or decreased.

- The actual range of the adjustments are different depending on which equalizer curve is selected.
- The equalizer curve with all frequencies set to **0** cannot be adjusted.

Adjusting 7-band graphic equalizer

For **CUSTOM 1** and **CUSTOM 2** equalizer curves, you can adjust the level of each band.

- A separate **CUSTOM 1** curve can be created for each source. If you make adjustments when a curve other than **CUSTOM 2** is selected, the equalizer curve settings will be memorized in **CUSTOM 1**.
- A **CUSTOM 2** curve can be created common to all sources. If you make adjustments when the **CUSTOM 2** curve is selected, the **CUSTOM 2** curve will be updated.

1 Recall the equalizer curve you want to adjust.

See *Recalling equalizer curves* on the previous page.

2 Press **AUDIO** to select 7-band graphic equalizer adjustment.

Frequency and the level (e.g., **50HZ 0**) appears in the display.

3 Press **◀** or **▶** to select the equalizer band to adjust.

Each press of **◀** or **▶** selects equalizer bands in the following order:

50Hz—125Hz—315Hz—800Hz—2kHz—5kHz—12.5kHz

4 Press **▲** or **▼** to adjust the level of the equalizer band.

Each press of **▲** or **▼** increases or decreases the level of the equalization band.

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

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

5 Press **BAND** to cancel the 7-band graphic equalizer adjustment.

Adjusting loudness

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

1 Press **AUDIO** to select **LOUD**.

2 Press **▲** to turn loudness on.

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

- To turn loudness off, press **▼**.

3 Press **◀** or **▶** to select a desired level. **LOW** (low)—**MID** (mid)—**HIGH** (high)

Using subwoofer output

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

1 Press **AUDIO** to select **SUB.W**.

- You can also select the subwoofer setting menu by pressing **SW** on the unit.

2 Press **▲** to turn subwoofer output on. **SUB.W NOR** appears in the display. Subwoofer output is now on.

- If the subwoofer output phase has been set to the reverse, **SUB.W REV** will be displayed.
- To turn subwoofer output off, press **▼**.

3 Press **◀** or **▶** to select the phase of subwoofer output.

Press **◀** to select reverse phase and **REV** appears in the display. Press **▶** to select normal phase and **NOR** 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.

1 Press SW to select 80HZ 0.

- You can also select the subwoofer setting menu by pressing **AUDIO** on the unit.
- When the subwoofer output is on, you can select **80HZ 0** (subwoofer setting).

2 Press ◀ or ▶ to select cut-off frequency. 50Hz—63Hz—80Hz—100Hz—125Hz

Only frequencies lower than those in the selected range are outputted from the subwoofer.

3 Press ▲ or ▼ to adjust the output level of the subwoofer.

+6 to **-24** is displayed as the level is increased or decreased.

Boosting the bass

Bass boost function boosts the bass level of sound lower than 100 Hz. The more the bass level is increased, the more the bass sound is emphasized and the entire sound becomes powerful. When using this function with the subwoofer, the sound under the cut-off frequency is boosted.

1 Press AUDIO to select BASS.

- You can also select the bass boost setting by pressing and holding **SW**.

2 Press ▲ or ▼ to select a desired level.

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

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 outputted from the front or rear speakers.

1 Press AUDIO to select HPF.

2 Press ▲ to turn high pass filter on.

HPF 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 **HPF 80HZ**.
- To turn high pass filter off, press ▼.

3 Press ◀ or ▶ to select cut-off frequency. 50Hz—63Hz—80Hz—100Hz—125Hz

Only frequencies higher than those in the selected range are outputted from the front or rear speakers.

Adjusting source levels

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

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

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

2 Press AUDIO to select SLA.

3 Press ▲ or ▼ to adjust the source volume.

SLA +4 to **SLA -4** is displayed as the source volume is increased or decreased.

Operating this unit



Notes

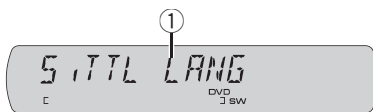
- The MW/LW volume level can also be adjusted with source level adjustments.
- Video CD, CD, compressed audio and DivX are set to the same source level adjustment volume automatically.
- External unit 1 and external unit 2 are set to the same source level adjustment volume automatically. ■

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 DVD setup menu display
Shows the DVD setup menu names.

1 Press ■.

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

The DVD setup menu is displayed.

3 Move the joystick up or down to display the DVD setup function names.

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

S.TTL LANG (subtitle language settings)—
AUDIO LANG (audio language settings)—
MENU LANG (menu language settings)—
ASSIST (assist subtitle)—**ANGLE** (angle icon)
 —**TV ASPECT** (TV aspect)—**PARENTAL** (parental lock)—**DIVX VOD** (DivX VOD)—
DIVX S.TTL (DivX subtitle)—**DIGI OUT** (digital output setting)



Note

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 joystick up or down to select S.TTL LANG.

2 Click the joystick.

A subtitle language menu is displayed.

3 Move the joystick left or right to select the desired language.

4 Click the joystick.

A subtitle language is set.



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 22.)
- Even if you use **SUBTITLE** to switch the subtitle language, this does not affect the settings here.
- Pressing **RETURN** takes you back to the previous display.

When you select OTHERS

When you select **OTHERS**, a language code input display is shown. Refer to *Language code chart for DVD* on page 90, use the number buttons to input the four digit code of the desired language, and then move the joystick right.



Note

Pressing **CLEAR** cancels the input numbers.

Setting the audio language

You can set the preferred audio language.

1 Move the joystick up or down to select AUDIO LANG.

2 Click the joystick.

An audio language menu is displayed.

3 Move the joystick left or right to select the desired audio language.

4 Click the joystick.

The audio language is set.



Notes

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

Setting the menu language

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

1 Move the joystick up or down to select MENU LANG.

2 Click the joystick.

A menu language menu is displayed.

Operating this unit

3 Move the joystick left or right to select the desired menu language.

4 Click the joystick.

The menu language is set.

Notes

- If the selected language is not recorded on the disc, the language specified on the disc is outputted.
- Pressing **RETURN** takes you back to the previous display.
- 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 joystick up or down to select ASSIST.

2 Click the joystick.

3 Move the joystick left or right to select on or off.

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

4 Click the joystick.

The assist subtitle is set on or off.

Note

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 joystick up or down to select ANGLE.

2 Click the joystick.

3 Move the joystick left or right to select on or off.

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

4 Click the joystick.

Angle icon display is set on or off.

Note

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

Setting the aspect ratio

There are two kinds of display. A wide screen display has a width-to-height ratio (TV aspect) of 16:9, while a regular display has a TV aspect of 4:3. Be sure to select the correct TV aspect for the display you use.

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

1 Move the joystick up or down to select TV ASPECT.

2 Click the joystick.

TV aspect menu is displayed.

3 Move the joystick left or right to select the desired TV aspect.

- **16:9** – Wide screen picture (16:9) is displayed as it is (initial setting)

Operating this unit


- **LETTER BOX** – The picture is the shape of a letterbox with black bands at the top and bottom of the screen
- **PANSCAN** – The picture is cut short at the right and left of the screen

4 Click the joystick.

The selected TV aspect is set.



Notes

- When playing discs that do not specify **PANSCAN**, playback is with **LETTER BOX** even if you select **PANSCAN** setting. Confirm whether the disc package bears the  mark. (See page 7.)
- Some discs do not enable changing of the TV aspect. For details, refer to the disc's instructions.
- Pressing **RETURN** takes you back to the previous display.

Setting the parental lock

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

- When you set a parental lock level and then play a disc featuring parental lock, code number input indications may be displayed. In this case, playback will begin when the correct code number is input.

Setting the code number and level

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

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

1 Move the joystick up or down to select PARENTAL.

2 Click the joystick.

Parental lock setting menu is displayed.

3 Press NUMBER buttons to input a four digit code number.

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

5 Move the cursor to the last position by moving the joystick right after entering the four digit code number.

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

6 Move the joystick left or right to select the desired level.

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

The parental lock level is set.



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

Operating this unit

Changing the level

You can change the set parental lock level.

1 Move the joystick up or down to select PARENTAL.

2 Click the joystick.


Parental lock setting menu is displayed.

3 Press NUMBER buttons to input the registered code number.

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

5 Move the cursor to the last position by moving the joystick 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 joystick left or right to select the desired level.

7 Click the joystick.

The parental lock level is set.

Note

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 joystick up or down to select DIVX VOD.

2 Click the joystick.

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.

Note

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 joystick up or down to select DIVX S.TTL.

2 Click the joystick.

3 Move the joystick left or right to select on or off.

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

4 Click the joystick.

DivX subtitle is set on or off.

**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 **LPCM** enables you to switch the output channel if playing the following type of discs. (Refer to *Selecting audio output* on page 24.)
 - Dual mono mode DVD video discs
 - Bilingual DVD-VR discs

1 Move the joystick up or down to select DIGI OUT.**2 Click the joystick.**

The digital output setting is displayed.

3 Move the joystick left or right to select the desired digital output setting.

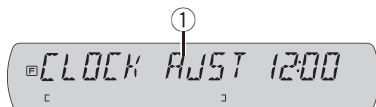
- **STREAM** – The Dolby Digital/DTS signal is output as it is (initial setting)
- **LPCM** – The Dolby Digital/DTS signal is converted to and output as a linear PCM signal

4 Click the joystick.

The selected digital output setting is determined.

Initial Settings**Adjusting initial settings**

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



- ① Function display
Shows the function status.

1 Press SOURCE and hold until the unit turns off.**2 Press FUNCTION and hold until function name appears in the display.****3 Press FUNCTION to select one of the initial settings.**

Press **FUNCTION** to select one of the initial settings.

CLOCK AJST (clock)—**OFFCLK** (off clock)—**FM STP** (FM tuning step)—**AUTOPI** (auto PI seek)—**WARN** (warning tone)—**AUX1** (auxiliary input1)—**AUX2** (auxiliary input2)—**V.IN** (AV input setting)—**CAMRA** (rear view camera setting)—**R-SP** (rear output and subwoofer controller)—**E-SCRL** (ever scroll)—**TITLE** (multi language)—**TV** (TV signal setting)—**D.ATT** (digital attenuation)—**A.RESET** (audio reset)

- To cancel initial settings, press **BAND**.
- You can also cancel initial settings by holding down **FUNCTION** until the unit turns off.
- When you select **CAMRA** in **V.IN**, you can select **CAMRA**.
- When the multi-channel processor (e.g., DEQ-P6600) is connected to this unit, you can operate **D.ATT** and **A.RESET** instead of **R-SP**.

Setting the clock

Use these instructions to set the clock.

Operating this unit

1 Press FUNCTION to select CLOCK AJST.

2 Press ◀ or ▶ to select the segment you wish to set.

Hour—Minute

As you select segments of the clock display the segment selected will blink.

3 Press ▲ or ▼ to set the clock.

Pressing ▲ will increase the value of the selected segment. Pressing ▼ will decrease the value of the selected segment.

Turning the off clock display on or off

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

1 Press FUNCTION to select OFFCLK.

2 Press ▲ or ▼ to turn OFFCLK on or off.

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.

1 Press FUNCTION to select FM STP.

2 Press ◀ or ▶ to select the FM tuning step.

Pressing ◀ or ▶ will switch the FM tuning step between 50 kHz and 100 kHz while AF or TA is on. The selected FM tuning step will appear in the display.



Note

The tuning step remains at 50 kHz during manual tuning.

Switching Auto PI Seek

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

1 Press FUNCTION to select AUTOPI.

2 Press ▲ or ▼ to turn AUTOPI on or off.

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 Press FUNCTION to select WARN.

2 Press ▲ or ▼ to turn WARN on or off.

Switching the auxiliary setting

Auxiliary equipments connected to this unit can be activated individually. Set each AUX source to ON when using. About connecting or using auxiliary equipments, refer to *Using the AUX source* on page 55.

Switching the auxiliary 1 setting

1 Press FUNCTION to select AUX1.

2 Press ◀ or ▶ to select desired setting.

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

Switching the auxiliary 2 setting

1 Press FUNCTION to select AUX2.

2 Press ▲ or ▼ to turn AUX2 on or off.

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 equipment as **AUX2** source.
- Select **CAMRA** to watch a rear view camera video while you are backing your vehicle.

1 Press **FUNCTION** to select **V.IN**.

2 Press **◀** or **▶** to select your 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 equipment
- **CAMRA** – 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, **V.IN** setting of this unit need not be **CAMRA**.

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 **CAMRA** in **V.IN**, you can select **CAMRA**.

1 Press **FUNCTION** to select **CAMRA**.

2 Press **◀** or **▶** to select an appropriate setting.

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

Operating this unit

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 (**R-SP FULL**) or subwoofer (**R-SP S/W**) connection. If you switch the rear output setting to **R-SP S/W**, you can connect a rear speaker lead directly to a subwoofer without using an auxiliary amp.

- 1 Press **FUNCTION** to select **R-SP**.
- 2 Press **▲** or **▼** to switch the rear output setting.

Pressing **▲** or **▼** will switch between **R-SP FULL** (full-range speaker) and **R-SP S/W** (subwoofer) and that status will be displayed.

- When no subwoofer is connected to the rear output, select **R-SP FULL**.
- When a subwoofer is connected to the rear output, set for subwoofer **R-SP S/W**.

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 43).
- If you change this setting, subwoofer output in the audio menu return to the factory settings.
- Both rear speaker leads 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 Press **FUNCTION** to select **E-SCRL**.
- 2 Press **▲** or **▼** to turn **E-SCRL** on or off.

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 either European language or Russian language.

- If embedded language and selected language setting are not consistent with each other, text information may not be displayed properly.
- Some characters may not be displayed properly.

- 1 Press **FUNCTION** to select **TITLE**.

- 2 Press **◀** or **▶** to select the language. **EUR** (European language)—**RUS** (Russian language)

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.

- 1 Press **FUNCTION** to select **TV**.

- 2 Press **◀** or **▶** to select an appropriate TV signal. **PAL**—**SECAM**

Note

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

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 Press **FUNCTION** to select **D.ATT.**
- 2 Press **◀** or **▶** to select **LOW** or **HIGH**.

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 15)
- Listening position setting (refer to *Using the position selector* on page 70)
- Fader/balance setting (refer to *Using balance adjustment* on page 69)
- SLA (source level adjustment) setting (refer to *Adjusting source levels* on page 72)
- Dynamic range control (refer to *Using the dynamic range control* on page 71)
- Direct control setting (refer to *Using the direct control* on page 72)
- Down-mix setting (refer to *Using the down-mix function* on page 71)

- 1 Press **FUNCTION** to select **A.RESET**.
- 2 Press **▲** to display **RESETOK?**
 - To cancel resetting the audio functions, press **BAND**.
- 3 Press **▶** to display **REALLY?**
 - To cancel resetting the audio functions, press **BAND**.
- 4 Press **▲** to reset audio functions. **COMPLETE** appears in the display. 

Other Functions

Setting the level indicator

Level indicators can be changed. Style of the level indicator differs depending on the source.

- Press **EQ** and hold to select the level indicator.

Press **EQ** and hold repeatedly to switch between the following settings:

iPod

Progress bar—off—Level indicator 1—Level indicator 2—Entertainment

Sources other than iPod

Level indicator 1—Level indicator 2—Entertainment—off



Notes

- When selecting iPod as a source, the progress bar is displayed as a default setting. When sources other than iPod is selected, the level indicator is displayed as a default setting.
- When the source is changed from iPod, the “progress bar” will be changed to the “level indicator 1”. And then, if the source is changed to iPod again, the progress bar is displayed. However, if the level indicator has been changed, the selected level indicator will be displayed even if the source is changed to iPod again.
- When Entertainment, Level indicator 1 or Level indicator 2 is selected on the iPod source, the selected level indicator will be displayed even if the source is changed.
- When the optical inputs 1 and 2 on DEQ-P6600 are occupied and AUX is connected to this unit, the level indicators may be incorrectly displayed.

Operating this unit

Using the AUX source

This unit can control an auxiliary equipment such as VCR or portable device (sold separately). When connected, auxiliary equipment is automatically recognized as AUX source and assigned to **AUX**.

About AUX connection method

You have two methods to connect auxiliary equipments to this unit.

Mini pin plug cable (AUX1)

When connecting auxiliary equipment using a mini plug cable

iPod and portable audio/video player can be connected to this unit via 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 microphone/auxiliary input jack on this unit.**

IP-BUS-RCA interconnector (AUX2)

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

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

For more details, refer to the IP-BUS-RCA Interconnector owner's manual.

- You can only make this type of connection if the auxiliary equipment 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 51.

Setting the AUX title

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

1 After you have selected AUX as the source, press FUNCTION and hold until TITLE IN appears in the display.

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 36.

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.

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 51.

2 Press BAND to switch the modes.

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

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



Note

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.

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
 - **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. For details concerning operation, refer to the operation manual of the interface adapter for iPod. This section provides information on iPod operations with this unit which differs from that described in the operation manual.

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



- ① Song number indicator
- ② Play time indicator

1 Press SOURCE to select the iPod.

Press **SOURCE** until you see **IPOD** displayed.

2 To perform fast forward or reverse, press and hold ◀ or ▶.

3 To skip back or forward to another song, press ◀ or ▶.

Browsing for a song

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

The operation of this unit to control an iPod is designed to be as close to the operation of the iPod as possible for easy operation and song search.

- If playlist has been selected, first, this unit shows playlist of your iPod's name. This playlist plays all songs in your iPod.

- If the characters recorded on the iPod are not compatible with this unit, those characters will not be displayed.
- If all characters recorded on the iPod are not compatible with this unit, **NO INFO** will be displayed.
- You can also perform the following operations by using the joystick.

1 Press ▲ or ▼ repeatedly to switch between the following settings:

PLAYLISTS (playlists)—**ARTISTS** (artists)—**ALBUMS** (albums)—**SONGS** (songs)—**GENRES** (genres)

- You can also switch to the browsing display by clicking the joystick.

2 Press ▶ to determine the category.

List from the selected category is displayed.

3 Press ▲ or ▼ to select a song list, album list, artist list or genre list from among the lists.

Press ▲ or ▼ repeatedly to switch the lists.

4 Press ▶ to determine the list.

Lists from the selected list are displayed.

5 Repeat step 3 and 4 to find a song you want to listen to.

- You can start playback throughout the selected list by pressing and holding ▶.
- To return to the previous list, press ◀.
- Functions are the same as ▲/▼/◀/▶ buttons.
- To go to the top menu of the list search, press and hold ◀.
- Press **BAND** to return to the normal display.

Displaying text information on iPod

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

Song number—**SONG TITLE** (song title)—

ART NAME (artist name)—**ALB TITLE** (album title)

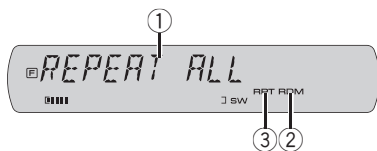
- If the characters recorded on the iPod are not compatible with this unit, those characters will not be displayed.
- If all characters recorded on the iPod are not compatible with this unit, **NO INFO** will be displayed.
- If specific information has not been recorded on the iPod, **NO XXXX** will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



Notes

- You can scroll to the left the text information 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 53.

Introduction of advanced operations



- ① **Function display**
Shows the function status.
- ② **RDM indicator**
Shows when random play is selected to **SHFL SONG** or **SHFL ALBUM**.
- ③ **RPT indicator**
Shows when repeat range is selected to **ONE**.

- Press **FUNCTION** repeatedly to switch between the following functions: **REPEAT** (repeat play)—**SHFL** (random play)—**PAUSE** (pause)
 - To return to the playback display, press **BAND**.
 - If you do not operate the function within about 30 seconds, the display is automatically returned to the playback display.

Repeating play

For playback of the songs on the iPod, there are two repeat play ranges: **ONE** (repeat one song) and **ALL** (repeat all songs in the list).

- While **REPEAT** is set to **ONE**, you cannot select the other songs.

1 Press **FUNCTION** to select **REPEAT**.

2 Press **◀** or **▶** to select the repeat range.

- **ONE** – Repeat just the current song
- **ALL** – Repeat all songs in the selected list

Playing songs in a random order (shuffle)

For playback of the songs on the iPod, there are two random play methods: **SHFL SONG** (play back songs in a random order) and **SHFL ALBUM** (play back albums in a random order).

1 Press **FUNCTION** to select **SHFL**.

2 Press **◀** or **▶** repeatedly to switch between the following settings:

- **SHFL SONG** – Play back songs in a random order within the selected list
- **SHFL ALBUM** – Select an album randomly, and then play back all the songs in it in order
- **SHFL OFF** – Cancel the random play

Available accessories

Pausing a song

1 Press **FUNCTION** to select **PAUSE**.

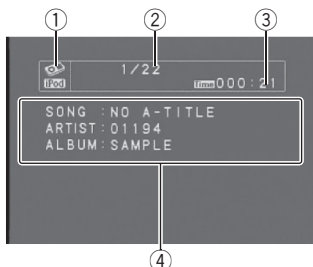
2 Press **▲** to turn pause on.

Playback of the current song pauses.

- To turn pause off, press **▼**.

Switching the information and title 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)

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

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

Information display—Title display

- Pressing **DISPLAY** button on the Title display switches text information on the head unit. In this case, text information on the Title display remains unchanged.

- Text information on the Title display does not scroll.

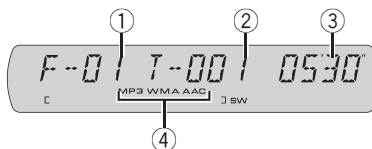
Playing songs on USB portable audio player/USB memory

Basic Operations

You can use this unit to control a USB adapter (e.g., CD-UB100), which is sold separately.

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

- Optimum performance of this unit may not be obtained depending on the connected USB portable audio player/USB memory.



- ① Folder number indicator
- ② Track number indicator
- ③ Play time indicator
- ④ **MP3/WMA/AAC** indicator
Shows the type of file currently playing.

1 Press **SOURCE** to select **USB**.

2 Press **▲** or **▼** to select a folder.

- You cannot select a folder that does not have a compressed audio file recorded in it.
- To return to folder 01 (ROOT), press and hold **BAND**. However, if folder 01 (ROOT) contains no files, playback commences with folder 02.

3 To perform fast forward or reverse, press and hold **◀** or **▶**.

4 To skip back or forward to another compressed audio file, press **◀** or **▶**.

Displaying text information of an audio file

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

Refer to *Displaying text information on disc* on page 37.

- If the characters recorded on the audio file are not compatible with this unit, those characters will not be displayed.

Selecting files from the file name list

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

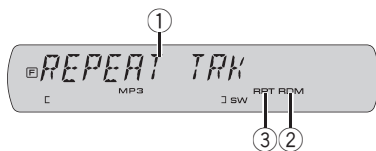
The operation is the same as that of the built-in DVD player.

Refer to *Selecting tracks from the file name list* on page 38.

Introduction of advanced operations

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

- Optimum performance of this unit may not be obtained depending on the connected USB portable audio player/USB memory.



- ① Function display
Shows the function status.
- ② **RDM** indicator
Shows when random play is on.
- ③ **RPT** indicator
Shows when repeat range is selected to **TRK** or **FLD**.

③ **RPT** indicator

Shows when repeat range is selected to **TRK** or **FLD**.

● Press **FUNCTION** repeatedly to switch between the following functions:

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

- To return to the playback display, press **BAND**.
- If you do not operate the function within about 30 seconds, the display is automatically returned to the playback display.

Function and operation

REPEAT, RANDOM, SCAN, PAUSE and item list 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 24. But 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 as below: <ul style="list-style-type: none"> • TRK – Repeat just the current file • FLD – Repeat the current folder • ALL – Repeat all files
RANDOM	Refer to <i>Playing tracks in random order</i> on page 39.
SCAN	Refer to <i>Scanning folders and tracks</i> on page 39.
PAUSE	Refer to <i>Pausing disc playback</i> on page 39.
item list	Refer to <i>For WMA/MP3/AAC discs</i> in the <i>Selecting tracks from the list</i> on page 39.

Notes


- If you select another folder during repeat play, the repeat play range changes to **ALL**.

Available accessories

- If you perform track search or fast forward/reverse during **TRK**, the repeat play range changes to **FLD**.
- When **FLD** 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 will begin again.

Switching the information and title display

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

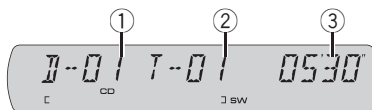
Refer to *For WMA/MP3/AAC discs* in the *Switching the information and title display* on page 40. 

Multi-CD Player

Basic Operations

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

- *Only those 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. About the disc title list functions, please refer to *Selecting discs from the disc title list* on page 65.*



- ① Disc number indicator
- ② Track number indicator
- ③ Play time indicator

1 Press SOURCE to select the multi-CD player.

2 Press ▲ or ▼ to select a disc you want to listen to.

- You can also select a disc by using **1** to **6** buttons.
 - 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.

3 To perform fast forward or reverse, press and hold ◀ or ▶.

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

**Notes**

- When the multi-CD player performs the preparatory operations, **READY** is displayed.
- If an error message such as **ERROR02-XX** is displayed, refer to the multi-CD player owner's manual.
- If there are no discs in the multi-CD player magazine, **NO DISC** is displayed.

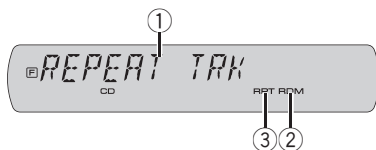
Selecting a track directly

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

For details concerning operation, refer to *Selecting a track directly* on page 36.

Introduction of advanced operations

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



- ① **Function display**
Shows the function status.
- ② **RDM** indicator
Shows when random play is on.
- ③ **RPT** indicator
Shows when repeat range is selected to **TRK** or **DSC**.

Function mode 1

● Press **FUNCTION** repeatedly to switch between the following functions: **REPEAT** (repeat play)—**TITLE LIST** (disc title list)—**RANDOM** (random play)—**SCAN** (scan play)—**ITS** (ITS play)—**PAUSE** (pause)—**COMP** (compression and DBE)

- To return to the playback display, press **BAND**.
- If you do not operate the function within about 30 seconds, the display is automatically returned to the playback display.

Function mode 2

- Press **FUNCTION** and hold repeatedly to switch between the following functions: **TITLE IN** (disc title input)—**ITS** (ITS programming)
- To return to the playback display, press **BAND**.

Function and operation

REPEAT, RANDOM, SCAN, PAUSE, COMP and **TITLE IN** 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 24. But 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 as below: <ul style="list-style-type: none"> • MCD – Repeat all discs in the multi-CD player • TRK – Repeat just the current track • DSC – Repeat the current disc
TITLE LIST	Refer to <i>Selecting discs from the disc title list</i> on page 65.
RANDOM	Refer to <i>Playing tracks in random order</i> on page 39.
SCAN	Refer to <i>Scanning folders and tracks</i> on page 39.
ITS	Refer to <i>Using ITS playlists</i> on the next page.
PAUSE	Refer to <i>Pausing disc playback</i> on page 39.

Available accessories

Function name	Operation
COMP	Refer to <i>Using compression</i> on page 40. Multi-CD player has DBE (dynamic bass emphasis) function instead of BMX. The settings can be switched as below: COMP OFF—COMP 1—COMP 2 —COMP OFF—DBE 1—DBE 2
TITLE IN	Refer to <i>Entering disc titles</i> on page 36.
ITS	Refer to <i>Using ITS playlists</i> on this page.



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 **TRK**, the repeat play range changes to **DSC**.
- After track or disc scanning is finished, normal playback of the tracks will begin again.
- When playing a CD TEXT disc on a CD TEXT compatible multi-CD player, you cannot switch to **TITLE IN**. The disc title has already been recorded on a CD TEXT disc.

Using ITS playlists

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

Creating a playlist with ITS programming

You can use ITS to enter and 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.)

1 Play a CD that you want to program.

Press **▲** or **▼** to select the CD.

2 Press FUNCTION and hold until TITLE IN appears in the display, then press FUNCTION to select ITS.

- If you select **ITS** (ITS play) in function mode 1, press and hold **FUNCTION** to enable you to select **ITS** directly.

3 Select the desired track by pressing ◀ or ▶.

4 Press ▲ to store the currently playing track in the playlist.

ITS IN is displayed briefly and the currently playing selection is added to your playlist. The display then shows **ITS** again.

5 Press BAND to return to the playback display.



Note

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

Playback from your ITS playlist

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

1 Select the repeat range.

Refer to *Playing tracks in random order* on page 39.

2 Press FUNCTION to select ITS.

3 Press ▲ to turn ITS play on.

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

Available accessories

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

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 not already on, press **FUNCTION**.

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 Press **FUNCTION** and hold until **ITS** appears in the display.

3 Select the desired track by pressing ◀ or ▶.

4 Press ▼ to erase the track from your ITS playlist.

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

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

5 Press **BAND** to return to the playback 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.

Press ▲ or ▼ to select the CD.

2 Press **FUNCTION** and hold until **TITLE IN** appears in the display, then press **FUNCTION** to select **ITS**.

3 Press ▼ to erase all tracks on the currently playing CD from your ITS playlist.

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

4 Press **BAND** to return to the playback 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 36.

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

Displaying disc titles

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

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

Refer to *Displaying text information on disc* on page 37.

Available accessories

Selecting discs from the disc title list

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

- You can also perform the following operations by using the joystick.

1 Press **FUNCTION** to select **TITLE LIST**.

2 Press **◀** or **▶** to select a disc from the disc title list.

- If no title has been entered for a disc,

NO D-TITLE will be displayed.

3 Press **▲** to play your favorite CD title.

That selection will begin to play.

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.

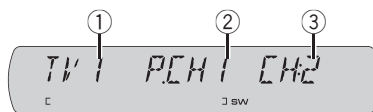
Refer to *Displaying text information on disc* on page 37. 

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.



- Band indicator**
Shows which band the TV tuner is tuned to.
- Preset number indicator**
Shows which preset has been selected.
- Channel indicator**
Shows which channel the TV tuner is tuned.

1 Press **SOURCE** to select the **TV**.

2 Press **BAND** to select a band.

Press **BAND** until the desired band is displayed, **TV1** or **TV2**.

3 To perform manual tuning, briefly press **◀** or **▶**.

The channels move up or down step by step.

4 To perform seek tuning, press and hold **◀** or **▶** for about one second and release.

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

- You can cancel seek tuning by briefly pressing **◀** or **▶**.
- If you press and hold **◀** or **▶** you can skip broadcasting channels. Seek tuning starts as soon as you release the button.

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.

- **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.



Notes

- Up to 12 stations, six for each of two TV bands can be stored in memory.
- You can use ▲ and ▼ to recall stations assigned to preset tuning numbers **P.CH01** to **P.CH12**.

Storing the strongest broadcast stations sequentially

1 Press FUNCTION to select BSSM.

2 Press ▲ to turn BSSM on.

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

- To cancel the storage process, press ▼.
- To return to the channel display, press **BAND**.




Notes

- If you do not operate the function within about 30 seconds, the display is automatically returned to the channel display.
- Storing broadcast stations with BSSM may replace broadcast stations you have saved using **1** to **6**. □

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.

- This unit is a head unit group 1 unit.
 - When a Bluetooth wireless connection of a cellular phone or a Bluetooth audio player is established, **BT** indicator appears in the display.
 - 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. 

Introduction of DVD operation

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.

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.)

- *Function menu switching* (Refer to this page.)

Function menu switching

- **During DVD playback, press FUNCTION to display the function names.**

Press **FUNCTION** repeatedly to switch between the following functions:

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

- **During Video CD playback, press FUNCTION to display the function names.**

Press **FUNCTION** repeatedly to switch between the following functions:

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

- During compressed audio playback, press **FUNCTION** to display the function names.

Press **FUNCTION** repeatedly to switch between the following functions:

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


- During CD playback, press **FUNCTION** to display the function names.

Press **FUNCTION** repeatedly to switch between the following functions:

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



Note

When using this unit with multi-DVD player, you can switch to **ITS**. 

Digital Signal Processor

Introduction of DSP adjustments

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

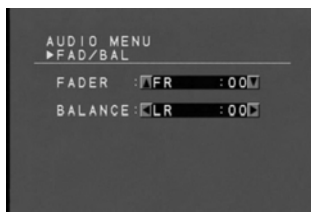
- Some functions may differ depending on the multi-channel processor connected to this unit.

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

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

When the separately sold display is connected to this unit

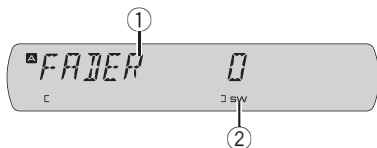
When the separately sold display is connected to this unit, the setting display will appear on it.



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

Available accessories

Operating the DSP menu



① DSP display

Shows the DSP status.

② SW indicator

Shows when the subwoofer output is turned on.

● Press **AUDIO** to display the DSP function names.

Press **AUDIO** repeatedly to switch between the following DSP functions:

FADER (balance adjustment)—**POSI** (position selector)—**PLII** (Dolby Pro Logic II)—music mode adjust—sound field control—**Lo/Ro** (down mix)—**DRC** (dynamic range control)—**DIRECT** (direct)—**SLA** (source level adjustment)

- You can also use **A.MENU** button on the remote control to select an audio menu.
- When the rear output setting is **R-SP S/W**, you cannot adjust front/rear speaker balance. Refer to *Setting the rear output and subwoofer controller* on page 53.
- When playing discs recorded with more than 96 kHz sampling frequency, you cannot use audio functions. Also, equalizer curve setting, **POSI**, **AT EQ** and **TA 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 the FM as the source, you cannot switch to **SLA**.
- To return to the display of each source, press **BAND**.

Note

If you do not operate the DSP 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 you an ideal listening environment in all occupied seats.

1 Press **AUDIO** to select **FADER**.

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

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

Each press of **▲** or **▼** moves the front/rear speaker balance towards the front or the rear. **FADER F25** to **FADER R25** is displayed as the front/rear speaker balance moves from front to rear.

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

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

When you press **◀** or **▶**, **BAL 0** is displayed. Each press of **◀** or **▶** moves the left/right speaker balance towards the left or the right. **BAL L25** to **BAL R25** is displayed as the left/right speaker balance moves from left to right.

Using the position selector

One way to assure a more natural sound is to accurately position the stereo image, putting you right in the center of the sound field. The position selector function lets you automatically adjust the speaker output levels and inserts a delay time to match the number and position of occupied seats. When used in conjunction with the SFC, the feature will make the sound image more natural and offer a panoramic sound that envelops you.

1 Press **AUDIO** to select **POSI**.

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

Press one of these, **◀/▶/▲/▼**, to select a listening position as listed in the table.

Button	Display	Position
◀	FRT-L	Front seat left
▶	FRT-R	Front seat right
▲	FRONT	Front seats
▼	ALL	All seats

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



Note

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*.

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 Press **AUDIO** to select **PLII**.

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

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

Adjusting the Music mode

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

You can adjust the music mode only when

MUSIC has been selected.

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

- Panorama (**PANO**) extends the front stereo image to include the surround speakers for an exciting “wraparound” effect.
- Dimension (**DIMENS**) 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 Press **AUDIO** to select adjusting music mode.

Available accessories

2 Press ► to select PANO.

Press ▲ or ▼ to turn **PANO** on/off.

3 Press ► again to select DIMENS.

Each time you press ▲ or ▼ it moves the sound towards the front or the surrounds. **+3** to **-3** is displayed as the front/surround speaker balance moves from front to surrounds.

4 Press ► again to select CENTER.

Each time you press ▲ or ▼ 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 programed into the SFC circuitry to recreate the acoustics of various performance settings.

● Press AUDIO to select the desired SFC mode.

Press ◀ or ▶ repeatedly to switch between the following modes:

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



Note

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

Using the down-mix function

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

1 Press AUDIO to select Lo/Ro.

- If the down mix **Lt/Rt** has been previously selected, **Lt/Rt** will be displayed.

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

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

Using the dynamic range control

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

- The dynamic range control is effective only on Dolby Digital sounds.

1 Press AUDIO to select DRC.

- When playing other than the DVD disc, you cannot switch this mode.

2 Press ▲ to turn the dynamic range control on.

DRC ON appears in the display. Dynamic range control is now on.

- To turn dynamic range control off, press ▼.

Using the direct control

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

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

1 Press AUDIO to select DIRECT.

2 Press ▲ to turn the direct control on.

DIRECT:ON appears in the display. Direct control is now on.

- To turn direct control off, press ▼.

Adjusting source levels

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

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

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

2 Press AUDIO to select SLA.

3 Press ▲ or ▼ to adjust the source volume.

Each press of ▲ or ▼ increases or decreases the source volume.

SLA +4 to **SLA -4** is displayed as the source volume is increased or decreased.

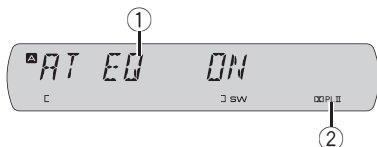


Notes

- 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.

Available accessories

Operating the DSP details menu



① DSP display

Shows the DSP status.

② PL II indicator

Shows when the Dolby Pro Logic II is turned on.

● Press **AUDIO** and hold until **AT EQ** appears in the display, then press **AUDIO** to display the DSP function names.

After **AT EQ** is displayed, press **AUDIO** repeatedly, the following DSP functions appear in the display:

AT EQ (auto-equalizer on/off)—**FRONT** (speaker setting)—**HPF** (cross-over frequency)—**FRT-L** (speaker output level)—**TEST TONE** (test tone)—**TA** (time alignment mode)—**FL** (time alignment adjustment)—**PEQ-2** (3-band parametric equalizer)

- You can also use **A.MENU** button on the remote control to select an audio menu.
- When you select **TA OFF** in **TA INITIAL**, you cannot select **FL**.
- You cannot select **AT EQ** if auto TA and EQ has not been carried out.
- To return to the display of each source, press **BAND**.

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 Press **AUDIO** and hold until **AT EQ** appears in the display.

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

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

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

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

The auto-time alignment is automatically adjusted for the distance between each speaker and the listening position.

The auto-equalizer automatically measures the car interior acoustic characteristics, and then creates the auto-equalizer curve based on that information.

! WARNING

To prevent accidents, never carry out auto TA and EQ while driving. When this function measures the car interior acoustic characteristics to create an auto-equalizer curve, a loud measurement tone (noise) may be outputted from the speakers.

! CAUTION

- Carrying out auto TA and EQ under the following conditions may damage the speakers. Be sure to check the conditions thoroughly before carrying out auto TA and EQ.
 - When speakers are incorrectly connected. (e.g., When a rear speaker is connected to a subwoofer output.)
 - When a speaker is connected to a power amp delivering output higher than the speaker's maximum input power capability.

- If the microphone is placed in an unsuitable position the measurement tone may become loud and measurement may take a long time, resulting in a drain on battery power. Be sure to place the microphone in the specified location.

Before operating the auto TA and EQ function

- Carry out auto TA and EQ in as quiet a place as possible, with the car engine and air conditioning switched off. Also cut power to car phones or portable telephones in the car, or remove them from the car before carrying out auto TA and EQ. Sounds other than the measurement tone (surrounding sounds, engine sound, telephones ringing etc.) may prevent correct measurement of the car interior acoustic characteristics.
- Be sure to carry out auto TA and EQ using the supplied microphone. Using another microphone may prevent measurement, or result in incorrect measurement of the car interior acoustic characteristics.
- 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 circum-

stances, 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 69.)
 - The equalizer curve switches to **EQ FLAT**. (Refer to page 79.)
 - 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

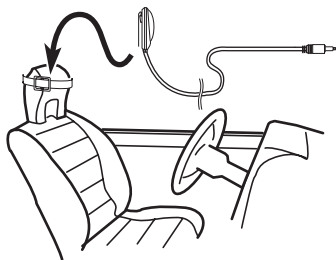
1 Stop the car in a place that is as quiet as possible, close all doors, windows and the sun roof, and then turn the engine off.

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.

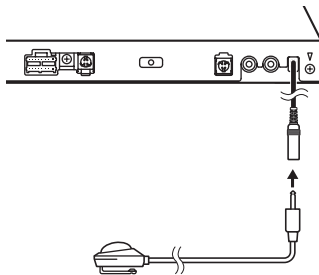
Refer to *Using the position selector* on page 70.

- If no position is selected before you start auto TA and EQ, **FRT-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 ▲ 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, COMPLETE is displayed.

When correct measurement of car interior acoustic characteristics is not possible, an error message is displayed. (Refer to *Understanding auto TA and EQ error messages* on page 84.)

11 Press BAND to cancel the auto TA and EQ mode.

Available accessories

12 Store the microphone carefully in the glove compartment.

Store the microphone carefully in the glove compartment or any other safe place. If the microphone is subjected to direct sunlight for an extended period, high temperatures may cause distortion, color change or malfunction.

Setting the speaker setting

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

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

1 Press AUDIO and hold until AT EQ appears in the display, then press AUDIO to select FRONT.

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

Each press of ◀ or ▶ selects the speaker in the following order:

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

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

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

Each press of ▲ or ▼ selects the size in the following order:

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

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

4 Press BAND to return to the playback display.

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 Press AUDIO and hold until AT EQ appears in the display, then press AUDIO to select FRONT.

2 Press ◀ or ▶ to select the subwoofer.

Each press of ◀ or ▶ selects the speaker in the following order:

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

3 Press ▲ to turn the subwoofer output on.

4 Press ▶ to select PHASE (subwoofer setting).

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

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

Available accessories

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

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

Selecting a cross-over frequency

You can select a frequency, under which sounds are reproduced through the subwoofer. If the installed speakers include one whose size has been set to **SML**, you can select a frequency, under which sounds are reproduced through a **LRG** speaker or subwoofer.

1 Press **AUDIO** and hold until **AT EQ** appears in the display, then press **AUDIO** to select **HPF**.

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

Each press of **◀** or **▶** selects the speaker in the following order:

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

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

Each press of **▲** or **▼** selects cross-over frequencies in the following order:

63—80—100—125—160—200 (Hz)

4 Press **BAND** to return to the playback display.

Note

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

Adjusting the speaker output levels

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

1 Press **AUDIO** and hold until **AT EQ** appears in the display, then press **AUDIO** to select **FRT-L**.

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

Each press of **◀** or **▶** selects the speaker in the following order:

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

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

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

Each press of **▲** or **▼** increases or decreases the speaker output level. **+10** to **-10** is displayed as the level is increased or decreased.

4 Press **BAND** to return to the playback display.

 **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 Press AUDIO and hold until FRONT appears in the display, then press AUDIO to select TEST TONE.

2 Press ► to start the test tone output.

The test tone is outputted. It rotates from speaker to speaker in the following sequence at intervals of about two seconds. The current settings for the speaker over which you hear the test tone are shown in the display.

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

- Check each speaker output level. If no adjustments are needed, perform step 4 to stop the test tone.

- The settings do not appear for speakers whose size is set **OFF**. (Refer to *Setting the speaker setting* on page 76.)

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

Each press of ▲ or ▼ increases or decreases the speaker output level. **+10** to **-10** is displayed as the level is increased or decreased.

- The test tone rotates to the next speaker after about two seconds from the last operation.

4 Press ◀ to stop the test tone output.

5 Press BAND to return to the playback 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 **FRT-L**. 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 Press AUDIO and hold until AT EQ appears in the display, then press AUDIO to select TA.

2 Press ◀ or ► to select the time alignment.

- **TA INITIAL** – Initial time alignment (factory setting)
- **TA CUSTOM** – Adjusted time alignment that you can create for yourself
- **TA AUTO TA** – Time alignment created by auto TA and EQ. (Refer to *Auto TA and EQ (auto-time alignment and auto-equalizing)* on page 73.)
- **TA OFF** – Turn the time alignment off
 - If auto TA and EQ have not been carried out, **SET A.TA** is displayed when **TA AUTO TA** is selected.

3 Press BAND to cancel the time alignment mode.

Adjusting the time alignment

You can adjust the distance between each speaker and the selected position.

Available accessories

- An adjusted time alignment is memorized in **TA CUSTOM**.

1 Press **AUDIO** and hold until **FRONT** appears in the display, then press **AUDIO** to select **FL**.

- When you select **TA OFF** in **TA INITIAL**, you cannot select **FL**.
- If a position other than **FRT-L** or **FRT-R** is selected, **CHECK POS1** is displayed. To set the position, refer to *Using the position selector* on page 70.

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

Each press of **◀** or **▶** selects the speaker in the following order:

FL (front speaker left)—**CENT** (center speaker)—**FR** (front speaker right)—**RR** (rear speaker right)—**RL** (rear speaker left)—**S/W** (subwoofer)

- You cannot select speakers whose size is set at **OFF**. (Refer to *Setting the speaker setting* on page 76.)

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

Each press of **▲** or **▼** increases or decreases the distance. **0.0** to **500.0** is displayed as the distance is increased or decreased.

4 Press **BAND** to return to the playback display.

Using the equalizer

The equalizer lets you adjust the equalization to match car 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 (PWRFL)	Powerful
NATURAL	Natural
VOCAL	Vocal
EQ FLAT	Flat
CUSTOM 1	Custom 1
CUSTOM 2	Custom 2
SUPER BASS (S-BASS)	Super bass

- **CUSTOM 1** and **CUSTOM 2** are adjusted equalizer curves.
- When **EQ 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 **EQ FLAT** and a set equalizer curve.

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

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

POWERFUL (PWRFL)—**NATURAL**—**VOCAL**—**EQ FLAT**—**CUSTOM 1**—**CUSTOM 2**—**SUPER BASS (S-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.

1 Press AUDIO and hold until AT EQ appears in the display, then press AUDIO to select PEQ-2.

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

2 Press ▲ or ▼ to select the speaker to be adjusted.

Each press of ▲ or ▼ selects the speaker in the following order:

FRT (front speakers)—**CENT** (center speaker)—**REAR** (rear speakers)

- You cannot select speakers whose size is set at **OFF**. (Refer to *Setting the speaker setting* on page 76.)

3 Press ► and then press ▲ or ▼ to select the equalizer band to be adjusted.

Each press of ▲ or ▼ selects equalizer bands in the following order:

LOW (low)—**MID** (mid)—**HI** (high)

4 Press ► and then press ▲ or ▼ to select the center frequency of selected band.

Each press of ▲ or ▼ selects the frequency in the following order:

40—50—63—80—100—125—160—200—250—315—400—500—630—800—1k—1.25k—1.6k—2k—2.5k—3.15k—4k—5k—6.3k—8k—10k—12.5k (Hz)

5 Press ► and then press ▲ or ▼ to adjust the equalizer level.

Each press of ▲ or ▼ increases or decreases the equalizer level. **+6** to **-6** is displayed as the level is increased or decreased.

6 Press ► and then press ▲ or ▼ to select the desired Q factor.

Each press ▲ or ▼ switches between the following Q factor:


WID (wide)—**NAR** (narrow)

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

7 Press BAND to return to the playback 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 the correct 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 13)
	Battery power is low.	Load new battery. (Page 8)
	Some operations are prohibited with certain discs.	Check by using another disc.
Playback is not possible.	The disc is dirty.	Clean disc. (Page 86)
	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 47)
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 5, Page 94)
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 SET-UP MENU .	The DVD playing does not feature dialog or subtitles in the language selected in SET-UP MENU .	Switching to a selected language is not possible if the language selected in SET-UP MENU is not recorded on the disc.
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 45)
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

DSP

Symptom	Cause	Action (See)
Speakers are not available to be adjusted.	Their size settings is at OFF .	Make the correct size settings. (Page 76)
Time alignment is not available.	Listening position is not set correctly.	Set listening position correctly. (Page 70)
	Speaker size settings is at OFF .	Make the correct size settings. (Page 76)
The subwoofer is not available to switch its phase.	The subwoofer is set to OFF .	Set the subwoofer to ON . (Page 76)
Bass content is not heard.	The subwoofer is set to OFF and yet other speakers are set to OFF or SML in size.	Make the correct settings. (If no subwoofer is installed, the front or rear speaker needs to be set to LRG .) (Page 76)
Occasionally no sounds are output when Dolby Pro Logic II is turned on.	The center speaker setting is at SML or LRG whereas no center speaker is installed.	Change the center speaker size setting to OFF . (If the audio source is mono and Dolby Pro Logic II is turned on, sound is heard over the center speaker only.) (Page 76)
Occasionally no sounds are heard over speakers other than the center one.	Dolby Pro Logic II is turned on.	Turn Dolby Pro Logic II off. (If the audio source is mono and Dolby Pro Logic II is turned on, sound is heard over the center speaker only.) (Page 70)
Turning dynamic range control on has no effects.	The currently reproduced sound is not Dolby Digital coded.	The feature is only effective on Dolby Digital sounds. (Page 71)
No sounds are heard.	Optical cables are incorrectly connected.	Connect the cables correctly.



Error messages

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

Message	Cause	Action
ERROR02-02	Dirty disc	Clean disc.
	Scatched disc	Replace disc.
	The disc is loaded upside down	Check that the disc is loaded correctly.
R ERROR	The disc does not have the same region number as this unit	Replace the DVD video with one bearing the correct region number.
NON-PLAY	This type of disc cannot be played by this unit	Replace the disc with one this unit can play.
HEAT	The temperature of this unit is outside the normal operating range	Wait until the unit's temperature returns to within normal operating limits.

Additional Information

Message	Cause	Action
PROTECT	All the files on the inserted disc are secured by digital rights management (DRM)	Replace disc.

Error messages on the display

Message	Cause	Action
ERROR-02-XX	Dirty disc	Clean disc.
	Scratched disc	Check that the disc is loaded correctly.
	The disc is loaded upside down	Check that the disc is loaded correctly.
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.
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.
NON-PLAYABLE DISC	This type of disc cannot be played by this unit	Replace the disc with one this unit can play.
PROTECTED DISC	All the files on the inserted disc are secured by digital rights management (DRM)	Replace disc.



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
ERR_MIC	Microphone is not connected.	Plug the supplied microphone securely into the jack.
ERR_FSP, ERR_FLSP, ERR_FRSP, ERR_CSP, ERR_RSP, ERR_RLSP, ERR_RRSP, ERR_SW	The microphone cannot pick up the measuring tone of a speaker.	<ul style="list-style-type: none"> • Confirm that the speakers are connected correctly. • Correct the input level setting of the power amp connected to the speakers. • Set the microphone correctly.
ERR_NOIS	The surrounding noise level is too high.	<ul style="list-style-type: none"> • Stop your car in a place that is as quiet as possible, and switch off the engine, air conditioner or heater. • Set the microphone correctly.



Additional Information

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.

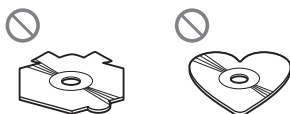


Additional Information

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 4.
- 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.
- Road shocks may interrupt disc playback.
- Read the precautions with 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.

- When DVD-R/DVD-RW discs are used, playback is possible only for discs which have been finalized.
- When DVD-R/DVD-RW discs are used, playback is possible only for discs which have been recorded with the Video format (video mode). It is not possible to play back DVD-RW discs which have been recorded with the Video Recording format (VR mode).
- It may not be possible to play back DVD-R/DVD-RW discs which have been recorded with the Video format (video mode), because of disc characteristics, scratches or dirt on the disc, or dirt, condensation, etc. on the lens of this unit.
- It is not possible to play back DVD-ROM/DVD-RAM discs.
- Playback of discs may not be possible because of disc characteristics, disc format, recorded application, playback environment, storage conditions and so on.

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.

Additional Information

- The following logo indicates that this unit is compatible with DVD-RW discs which have been recorded with the Video Recording format (VR mode).




AVCHD recorded discs


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

CD-R/CD-RW discs

- When CD-R/CD-RW discs are used, playback is possible only for discs which have been finalized.
- It may not be possible to play back CD-R/CD-RW discs recorded on a music CD recorder or a personal computer because of disc characteristics, scratches or dirt on the disc, or dirt, condensation, etc., on the lens of this unit.
- Playback of discs recorded on a personal computer may not be possible, depending on the application settings and the environment. Please record with the correct format. (For details, contact the manufacturer of the application.)
- Playback of CD-R/CD-RW discs may become impossible in case of direct exposure to sunlight, high temperatures, or the storage conditions in the vehicle.

- Titles and other text information recorded on a CD-R/CD-RW disc may not be displayed by this unit (in the case of audio data (CD-DA)).
- Read the precautions with CD-R/CD-RW discs before using them. 

Dual Discs

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

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.

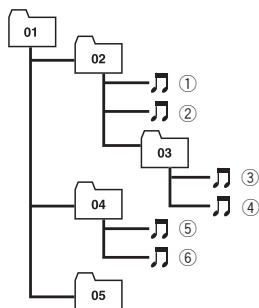
Additional Information

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

Example of a hierarchy

📁: Folder

🎵: Compressed audio file



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 Ver. 7, 7.1, 8, 9 or 10
- 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 (emphasis: 8 kHz to 48 kHz)
- 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® version 6.0.5 and earlier
- 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/>

DivX compatibility

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

Additional Information

Language code chart for DVD

Language (code), input code	Language (code), input code	Language (code), input code
Japanese (ja), 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

Russian character chart

Display	Character	Display	Character
<i>А</i>	А	<i>Б</i>	Б
<i>В</i>	В	<i>Г</i>	Г
<i>Д</i>	Д	<i>Е</i>	Е, Ё
<i>Ж</i>	Ж	<i>З</i>	З
<i>И</i>	И, Й	<i>К</i>	К
<i>Л</i>	Л	<i>М</i>	М
<i>Н</i>	Н	<i>О</i>	О
<i>П</i>	П	<i>Р</i>	Р
<i>С</i>	С	<i>Т</i>	Т
<i>У</i>	У	<i>Ф</i>	Ф
<i>Х</i>	Х	<i>Ц</i>	Ц
<i>Ч</i>	Ч	<i>Ш</i>	Ш, Щ
<i>Ъ</i>	Ъ	<i>Ы</i>	Ы
<i>Ь</i>	Ь	<i>Э</i>	Э
<i>Ю</i>	Ю	<i>Я</i>	Я



Additional Information

Terms

AAC

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

Aspect ratio

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

Bit rate

This expresses data volume per second, or bps (bits per second) units. The higher the rate, the more information is available to reproduce the sound. Using the same encoding method (such as MP3), the higher the rate, the better the sound.

Chapter

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

DivX

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

DivX Certified

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

Dolby Digital

Dolby Digital provides multi-channel audio from up to 5.1 independent channels. This is the same as the Dolby Digital surround sound system used in theaters.

Dolby Pro Logic II

Dolby Pro Logic II can create five full-bandwidth output channels from two-channel sources. This new technology enables a discrete 5-channel playback with 2 front channels, 1 center channel, and 2 rear channels. A music mode is also available for 2-channel sources in addition to the movie mode.

DTS

This stands for Digital Theater Systems. DTS is a surround system delivering multi-channel audio from up to 6 independent channels.

DVD-VR

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

Dynamic range control

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

Additional Information

ID3 tag

This is a method of embedding track-related information in an MP3 file. This embedded information can include the track title, the artist's name, the album title, the music genre, the year of production, comments and other data. The contents can be freely edited using software with ID3 Tag editing functions. Although the tags are restricted as to the number of characters, the information can be viewed when the track is played back.

ISO9660 format

This is the international standard for the format logic of CD-ROM folders and files. For the ISO9660 format, there are regulations for the following two levels.

Level 1:

The file name is in 8.3 format (the name consists of up to 8 characters, half-byte English capital letters and half-byte numerals and the “_” sign, with a file-extension of three characters).

Level 2:

The file name can have up to 31 characters (including the separation mark “.” and a file extension). Each folder contains less than 8 hierarchies.

Extended formats

Joliet:

File names can have up to 64 characters.

Romeo:

File names can have up to 128 characters.

Linear PCM (LPCM)/Pulse code modulation

This stands for linear pulse code modulation, which is the signal recording system used for music CDs and DVDs. Generally, DVDs are recorded with higher sampling frequency and bit rate than CDs. Therefore, DVDs can provide higher sound quality.

m3u

Playlists created using the “WINAMP” software have a playlist file extension (.m3u).

MP3

MP3 is short for MPEG Audio Layer 3. It is an audio compression standard set by a working group (MPEG) of the ISO (International Standards Organization). MP3 is able to compress audio data to about 1/10th the level of a conventional disc.

MPEG

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

Multi-angle

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

Multi-audio (Multilingual dialog)

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

Multi-session

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

Additional Information

Multi-subtitle

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

Optical digital output/input

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

Packet write

This is a general term for a method of writing on CD-R, etc., at the time required for a file, just as is done with files on floppy or hard discs.

Parental lock

Some DVD video discs with violent or adult-oriented scenes feature parental lock which prevents children from viewing such scenes. With this kind of disc, if you set the unit's parental lock level, playback of scenes inappropriate for children will be disabled, or these scenes will be skipped.

Playback control (PBC)

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

Region number

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

Title

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

VBR

VBR is short for variable bit rate. Generally speaking CBR (constant bit rate) is more widely used. But by flexibly adjusting the bit rate according to the needs of audio compression, it is possible to achieve compression-priority sound quality.

WMA

WMA is short for Windows Media™ Audio and refers to an audio compression technology that is developed by Microsoft Corporation. WMA data can be encoded by using Windows Media Player version 7 or later.

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

Additional Information

Specifications

General

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 × 50 × 161 mm
Nose	188 × 58 × 19 mm
D	
Chassis	178 × 50 × 165 mm
Nose	170 × 46 × 15 mm
Weight	1.4 kg

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/output impedance	2.2 V/1kΩ
Equalizer (7-Band Graphic Equalizer):	
Frequency	50/125/315/800/2k/5k/12.5k Hz
Gain	± 12 dB
Loudness contour:	
Low	+3.5 dB (100 Hz), +3 dB (10 kHz)
Mid	+10 dB (100 Hz), +6.5 dB (10 kHz)
High	+11 dB (100 Hz), +11 dB (10 kHz) (volume: -30 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, dtsCD, CD, CD-R/RW, DVD-R/RW
Signal format:	
Sampling frequency	16/22.05/24/44.1/48/88.2/96/176.4/192 kHz
Number of quantization bits	16/20/24; linear
Frequency response	5 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))
Dynamic range	95 dB (1 kHz) (CD: 94 dB (1 kHz))
Distortion	0.008 % (1 kHz)
Output level:	
Video	1.0 Vp-p/75 Ω (±0.2 V)
Number of channels	2 (stereo)
DivX decoding format	Home Theater Ver. 3, 4, 5.2 (.avi .divx)
MP3 decoding format	MPEG-1 & 2 Audio Layer 3
WMA decoding format	Ver. 7, 7.1, 8, 9 (2ch audio) (Windows Media Player)
AAC decoding format	MPEG-4 AAC (iTunes® encoded only)
FM tuner	
Frequency range	87.5 MHz to 108.0 MHz
Usable sensitivity	8 dBf (0.7 μV/75 Ω mono, S/N: 30 dB)
Signal-to-noise ratio	75 dB (IEC-A network)
Distortion	0.3 % (at 65 dBf, 1 kHz, stereo) 0.1 % (at 65 dBf, 1 kHz, mono)
Frequency response	30 Hz to 15 000 Hz (±3 dB)
Stereo separation	45 dB (at 65 dBf, 1 kHz)
MW tuner	
Frequency range	531 kHz to 1 602 kHz (9 kHz)
Usable sensitivity	18 μV (S/N: 20 dB)
Signal-to-noise ratio	65 dB (IEC-A network)

Additional Information

LW tuner

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



Note

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



Visit www.pioneer-eur.com to register your product.

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

PIONEER CORPORATION

4-1, MEGURO 1-CHOME, MEGURO-KU
TOKYO 153-8654, JAPAN

PIONEER ELECTRONICS (USA) INC.

P.O. Box 1540, Long Beach, California 90801-1540, U.S.A.
TEL: (800) 421-1404

PIONEER EUROPE NV

Haven 1087, Keetberglaan 1, B-9120 Melsele, Belgium
TEL: (0) 3/570.05.11

PIONEER ELECTRONICS ASIACENTRE PTE. LTD.

253 Alexandra Road, #04-01, Singapore 159936
TEL: 65-6472-7555

PIONEER ELECTRONICS AUSTRALIA PTY. LTD.

178-184 Boundary Road, Braeside, Victoria 3195, Australia
TEL: (03) 9586-6300

PIONEER ELECTRONICS OF CANADA, INC.

300 Allstate Parkway, Markham, Ontario L3R OP2, Canada
TEL: 1-877-283-5901

PIONEER ELECTRONICS DE MEXICO, S.A. de C.V.

Bldv.Manuel Avila Camacho 138 10 piso
Col.Lomas de Chapultepec, Mexico, D.F. 11000
TEL: 55-9178-4270

先鋒股份有限公司

總公司：台北市中山北路二段44號13樓
電話：(02) 2521-3588

先鋒電子（香港）有限公司

香港九龍尖沙咀海港城世界商業中心
9樓901-6室
電話：(0852) 2848-6488

Published by Pioneer Corporation.
Copyright © 2007 by Pioneer Corporation.
All rights reserved.

Printed in Thailand

<CRB2402-A/N> RE

<KOKZX> <07B00000>