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.

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IMPORTANT SAFEGUARDS

Please read all of these instructions regarding your display and retain them for future reference.

1 Read this manual fully and carefully before operating your display.
2 Keep this manual handy as a reference for operating procedures and safety information.
3 Pay close attention to all warnings in this manual and follow the instructions carefully.
4 Do not allow other persons to use this system until they have read and understood the operating instructions.
5 Do not install the display where it may (i) obstruct the driver’s vision, (ii) impair the performance of any of the vehicle’s operating systems or safety features, including air bags, hazard lamp buttons or (iii) impair the driver’s ability to safely operate the vehicle.
6 Do not operate this display if doing so in any way will divert your attention from the safe operation of your vehicle. Always observe safe driving rules and follow all existing traffic regulations. If you experience difficulty in operating the system or reading the display, park your vehicle in a safe location and make necessary adjustments.
7 Please remember to wear your seat belt at all times while operating your vehicle. If you are ever in an accident, your injuries can be considerably more severe if your seat belt is not properly buckled.
8 Never use headphones while driving.
9 To promote safety, certain functions are disabled unless the parking brake is on, and the vehicle is not in motion.
10 Never set the volume of your display so high that you cannot hear outside traffic and emergency vehicles.

WARNING

- Do not attempt to install or service your display by yourself. Installation or servicing of the display by persons without training and experience in electronic equipment and automotive accessories may be dangerous and could expose you to the risk of electric shock or other hazards.

To ensure safe driving

WARNING

- LIGHT GREEN LEAD AT POWER CONNECTOR IS DESIGNED TO DETECT PARKED STATUS AND MUST BE CONNECTED TO THE POWER SUPPLY SIDE OF THE PARKING BRAKE SWITCH. IMPROPER CONNECTION OR USE OF THIS LEAD MAY VIOLATE APPLICABLE LAW AND MAY RESULT IN SERIOUS INJURY OR DAMAGE.

- To avoid the risk of damage and injury and the potential violation of applicable laws, this unit is not for use with a video screen that is visible to the driver.
- 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.
When you attempt to watch a DVD, Video CD or TV while driving, the warning **VIDEO VIEWING IS NOT AVAILABLE WHILE DRIVING** will appear on the front display. To watch a DVD, Video CD or TV on the front display, park your vehicle in a safe place and apply the parking brake.

**Parking brake interlock**

Certain functions (DVD/TV viewing and certain touch panel keys) offered by this unit could be dangerous and/or unlawful if used while driving. To prevent such functions from being used while the vehicle is in motion, there is an interlock system that senses when the parking brake is set. If you attempt to use the functions described above while driving, they will become disabled until you stop the vehicle in a safe place, and (1) apply the parking brake, (2) release the parking brake, and then (3) apply the parking brake again. Please keep the brake pedal pushed down before releasing the parking brake.

**To avoid battery exhaustion**

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

⚠️ **WARNING**

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

Alteration or modifications carried out without appropriate authorization may invalidate the user’s right to operate the equipment.

For Canadian model

This Class B digital apparatus complies with Canadian ICES 003.

About this unit

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

WARNING
Handling the cord on this product or cords associated with accessories sold with the product may expose you to chemicals listed on proposition 65 known to the State of California and other governmental entities to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

This product contains mercury. Disposal of this material may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronics Industries Alliance: www.eiae.org

CAUTION:
USE OF CONTROL OR ADJUSTMENT OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

CAUTION:
The use of optical instruments with this product will increase eye hazard.

CAUTION
- Do not allow this unit to come into contact with liquids. Electrical shock could result. Also, damage to this unit, smoke, and over heating could result from contact with liquids.
- Keep this manual handy as a reference for operating procedures and precautions.
- Always keep the volume low enough so that you can hear sounds from outside the vehicle.
- Protect this unit from moisture.
- If the battery is disconnected or discharged, the preset memory will be erased and must be reprogrammed.

Important (Serial number)
The serial number is located on the bottom of this unit. For your own security and convenience, be sure to record this number on the enclosed warranty card.
Playable discs
DVD, Video CD and CD discs that display the logos shown below can be played back on this player.

DVD video

Video CD

CD

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

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.

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.

After-sales service for Pioneer products
Please contact the dealer or distributor from where you purchased this unit for after sales service (including warranty conditions) or any other information. In case the necessary information is not available, please contact the companies listed below:
Please do not ship your unit to the companies at the addresses listed below for repair without advance contact.
Before You Start

U.S.A.
Pioneer Electronics (USA) Inc.
CUSTOMER SUPPORT DIVISION
P.O. Box 1760
Long Beach, CA 90801 1760
800 421 1404

CANADA
Pioneer Electronics of Canada, Inc.
CUSTOMER SATISFACTION DEPARTMENT
300 Allstate Parkway
Markham, Ontario L3R 0P2
1 877 283 5901
905 479 4411

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

Features

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

DVD video playback
It is possible to play back DVD video and DVD R/RW (video mode).
Remember that use of this system for commercial or public viewing purposes may constitute an infringement on the author’s rights protected by the Copyright Law.

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

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

MP3 file playback
You can play back MP3 files recorded on CD ROM/CD R/CD RW (ISO9660 Level 1/Level 2 standard recordings).

WMA file playback
You can play back WMA files recorded on CD ROM/CD R/CD RW (ISO9660 Level 1/Level 2 standard recordings).

Product registration
Visit us at the following site:
http://www.pioneerelectronics.com
1 Register your product. We will keep the details of your purchase on file to help you refer to this information in the event of an insurance claim such as loss or theft.
2 Receive updates on the latest products and technologies.
3 Download owner’s manuals, order product catalogues, research new products, and much more.
4 Your feedback is important in our continual effort to design and build the most advanced, consumer focused product in the industry.

Serial number

Before You Start

Features

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

DVD video playback
It is possible to play back DVD video and DVD R/RW (video mode).
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Video CDs featuring PBC compatibility
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CD playback
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MP3 file playback
You can play back MP3 files recorded on CD ROM/CD R/CD RW (ISO9660 Level 1/Level 2 standard recordings).

WMA file playback
You can play back WMA files recorded on CD ROM/CD R/CD RW (ISO9660 Level 1/Level 2 standard recordings).

Product registration
Visit us at the following site:
http://www.pioneerelectronics.com
1 Register your product. We will keep the details of your purchase on file to help you refer to this information in the event of an insurance claim such as loss or theft.
2 Receive updates on the latest products and technologies.
3 Download owner’s manuals, order product catalogues, research new products, and much more.
4 Your feedback is important in our continual effort to design and build the most advanced, consumer focused product in the industry.

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

Multi-aspect
Switching between wide screen, letterbox and panscan display is possible.

Multi-audio
You can switch between multiple audio systems recorded on a DVD as desired.

Multi-subtitle
You can switch between multiple subtitle languages recorded on a DVD as desired.

Multi-angle
You can switch between multiple viewing angles of a scene recorded on a DVD as desired.

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

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

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 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.

Notes
- This unit may not operate correctly depending on the application used to encode WMA files.
- Depending on the version of Windows Media Player used to encode WMA files, album names and other text information may not be correctly displayed.
About the SAT RADIO READY mark

The SAT RADIO READY mark indicates that the Satellite Radio Tuner for Pioneer (i.e., XM tuner and Sirius satellite tuner which are sold separately) can be controlled by this unit. Please inquire to your dealer or nearest authorized Pioneer service station regarding the satellite radio tuner that can be connected to this unit. For satellite radio tuner operation, please refer to the satellite radio tuner owner’s manual.

Notes

- The system will use direct satellite to receiver broadcasting technology to provide listeners in their cars and at home with crystal clear sound seamlessly from coast to coast. Satellite radio will create and package over 100 channels of digital quality music, news, sports, talk and children’s programming.
- “SAT Radio”, the SAT Radio logo and all related marks are trademarks of Sirius Satellite Radio inc., and XM Satellite Radio Inc.

To protect the LCD screen

- Do not allow direct sunlight to fall on the display when this unit is not being used. Extended exposure to direct sunlight can result in LCD screen malfunction due to the resulting high temperatures.
- When using a cellular phone, keep the antenna of the cellular phone away from the display to prevent disruption of the video by the appearance of spots, colored stripes, etc.

- Never touch the screen with anything besides your finger when operating the touch panel function. The screen can scratch easily.

For viewing LCD comfortably

Due to its construction, the viewing angle of the LCD screen is limited. You can adjust it by changing either screen size or picture adjustment.

Changing the wide screen size

By changing the screen size from 4:3 to 16:9, you can adjust the screen so that the screen can fit to the video image you are playing. For details concerning operation, refer to Changing the wide screen mode on page 107.

Changing the picture adjustment

You can make the best adjustment to the picture display by changing BRIGHT, CONTRAST, COLOR and HUE. You can also dim or enlight the overall picture image using DIMMER. For details concerning operation, refer to Changing the picture adjustment on page 107.

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.
Before You Start

<table>
<thead>
<tr>
<th>Mark</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>🎧</td>
<td>Indicates the number of audio systems.</td>
</tr>
<tr>
<td>🎰</td>
<td>Indicates the number of subtitle languages.</td>
</tr>
<tr>
<td>🎥</td>
<td>Indicates the number of viewing angles.</td>
</tr>
<tr>
<td>16:9</td>
<td>Indicates the picture size (aspect ratio:</td>
</tr>
<tr>
<td></td>
<td>screen width to height ratio) type.</td>
</tr>
<tr>
<td>🌐</td>
<td>Indicates the number of the region where</td>
</tr>
<tr>
<td></td>
<td>playback is possible.</td>
</tr>
</tbody>
</table>

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.

Pressing RESET lets you reset the microprocessor to its initial settings. The microprocessor must be reset under the following conditions:

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

1  Turn the ignition switch OFF.

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

RESET button

Notes

- When using with AVG VDP1, if you press RESET, be sure ACC OFF is selected. If ACC ON is selected, correct operation may not be possible even if you press RESET.
- After completing connections or when you want to erase all memorized settings or return the unit to its initial (factory) settings, switch your engine ON or set the ignition switch to ACC ON before pressing RESET.

About the demo mode

Important

The red lead (ACC) of this unit should be connected to a terminal coupled with ignition switch on/off operations. If this is not done, the vehicle battery may be drained.

The feature demo automatically starts when you select the source OFF. The demo continues while the ignition switch is set to ACC or ON. To cancel the feature demo, press and hold ENTERTAINMENT (ENT). To restart the feature demo, press and hold ENTERTAINMENT (ENT) again. Remember that if the feature demo continues operating when the car engine is turned off, it may drain battery power.
Use and care of the remote control

Installing the battery
Slide the tray on the back of the remote control out and insert the battery with the plus (+) and minus (−) poles aligned properly.
- When using for the first time, pull out the film protruding from the tray.

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

CAUTION
- Use one CR2025 (3 V) lithium battery.
- Remove the battery if the remote control is not used for a month or longer.
- There is a danger of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent type.
- Do not handle the battery with metallic tools.
- Do not store the battery with metallic objects.
- If the battery leaks, wipe the remote control completely clean and install a new battery.
- When disposing of used batteries, comply with governmental regulations or environmental public institutions’ rules that apply in your country/area.
- “Perchlorate Material special handling may apply. See www.dtsc.ca.gov/hazardouswaste/perchlorate. (Applicable to California, U.S.A.)”

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.
Connecting with separately sold Pioneer products

Connecting with other Pioneer products, you can create the best audio visual environment for enjoying music and movie in car. This section describes available options that can be controlled by this unit.

Using multi-channel processor

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.

For details concerning operation, refer to Introduction of DSP adjustments on page 85.

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

- Manufactured under license under U.S. Patent #’s: 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,487,535 & other U.S. and worldwide patents issued & pending. DTS and DTS Digital Surround are registered trademarks and the DTS logos and Symbol are trademarks of DTS, Inc.

© 1996-2007 DTS, Inc. All Rights Reserved.

Using iPod

When you use this unit with an interface adapter for iPod (CD IB100) (sold separately), you can control an iPod with Dock Connector. For details concerning operation, refer to Playing songs on iPod on page 65.

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

- iPod adapter supports only an iPod with Dock Connector.

Using the AVG-VDP1 (Pioneer Vehicle Dynamics Processor)

This unit can be used as the display unit for the AVG VDP1 (sold separately) product.

Using the rear display

Combining this unit with a rear display (sold separately), you can display the selected source on the rear display so passengers in rear seats can comfortably view the same image with the front or they can watch the different image (i.e. image from AVG VDP1) independently.

For details concerning operation, refer to Selecting video on rear display on page 98.

- When a Pioneer Vehicle Dynamics Processor (AVG VDP1) is connected to this unit, the AVG VDP1 can be displayed on the rear display. (Refer to page 98.)

Important

NEVER install the rear display in a location that enables the driver to watch the DVD or TV while driving.
Using Bluetooth wireless technology

Playing a Bluetooth audio player using with Bluetooth adapter (e.g. CD-BTB200)

If you connect a Bluetooth adapter (e.g. CD-BTB200) to this unit, you can control Bluetooth audio players via Bluetooth wireless technology. For details concerning operation, refer to Bluetooth Audio on page 68.

- Even though your audio player does not contain a Bluetooth wireless technology module, you can still control it using a Bluetooth adapter sold on the market.

Hands-free phoning using with Bluetooth adapter (e.g. CD-BTB200)

If you use a Bluetooth adapter (e.g. CD-BTB200), you can connect a cellular phone featuring Bluetooth wireless technology to this unit for hands free, wireless calls, even while driving. For details concerning hands free phoning operation, refer to Hands free phoning with cellular phones featuring Bluetooth wireless technology on page 71.
Head unit

1. **BAND button**
   Press to select among three FM bands and one AM band and to cancel control modes of functions.

2. **RESET button**
   Press to return to the factory settings (initial settings).

3. **Signal receptor**
   Receives signals from a remote control.

4. **◄/► buttons**
   Press to do manual seek tuning, fast forward, reverse and track search controls.

5. **VOLUME**
   Press to increase or decrease the volume.

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

7. **ENTERTAINMENT (ENT) button**
   Press to display the entertainment menu.

8. **WIDE button**
   Press to select a desired mode for enlarging a 4:3 picture to a 16:9 one.

9. **V.ADJ button**
   Press and hold to display the picture adjust ment menu.

10. **OPEN button**
    Press to slide down or up the LCD panel.
Remote control

<table>
<thead>
<tr>
<th>Button names</th>
<th>AVH mode</th>
<th>DVD mode with remote control code AVH</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Remote control selection switch</td>
<td>Switch to change the setting of the remote control. For details, refer to Setting remote control code type on page 111.</td>
<td></td>
</tr>
<tr>
<td>2 SOURCE button</td>
<td>Press to cycle through all the available sources. Press and hold to turn the source off.</td>
<td></td>
</tr>
<tr>
<td>3 ATT button</td>
<td>Press to quickly lower the volume level by about 90%. Press once more to return to the original volume level.</td>
<td></td>
</tr>
<tr>
<td>4 VOLUME buttons</td>
<td>Press to increase or decrease the volume.</td>
<td></td>
</tr>
<tr>
<td>5 AUDIO button</td>
<td>Press to change the audio language during DVD playback.</td>
<td></td>
</tr>
<tr>
<td>5 SUB TITLE button</td>
<td>Press to change the subtitle language during DVD playback.</td>
<td></td>
</tr>
<tr>
<td>5 ANGLE button</td>
<td>Press to change the viewing angle during DVD playback.</td>
<td></td>
</tr>
<tr>
<td>6 RETURN button</td>
<td>Press to display the PBC (playback control) menu during PBC playback.</td>
<td></td>
</tr>
<tr>
<td>Button names</td>
<td>AVH mode</td>
<td>DVD mode with remote control code AVH</td>
</tr>
<tr>
<td>--------------------------------------</td>
<td>----------------------------------------------------------------------------------------------------</td>
<td>-----------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>7 ▲/▼ buttons (DISC)</td>
<td>Press to select the next/previous disc.</td>
<td></td>
</tr>
<tr>
<td>8 Remote control operation mode switch</td>
<td>Switch the operation mode between AVH, DVD and TV modes. Normally, set to AVH. For details, refer to Using the remote control operation mode switch on the next page.</td>
<td></td>
</tr>
<tr>
<td>9 BOOKMARK button/PGM button</td>
<td>Press to operate the preprogrammed functions for each source. (Refer to Using the preprogrammed function on page 112.)</td>
<td>Press to turn the bookmark function on or off. For details, refer to Resume playback (Bookmark) on page 31.</td>
</tr>
<tr>
<td>10 DIRECT button</td>
<td>Press to do direct XM/SIRIUS channel select.</td>
<td>Not used.</td>
</tr>
<tr>
<td>11 REAR.S button</td>
<td>Not used.</td>
<td></td>
</tr>
<tr>
<td>12 DISPLAY button</td>
<td>Press to select different displays.</td>
<td>Not used.</td>
</tr>
<tr>
<td>13 ENTERTAINMENT (ENT) button</td>
<td>Press to display the entertainment menu.</td>
<td>Not used.</td>
</tr>
<tr>
<td>14 0 to 10 buttons, CLEAR button</td>
<td>Press 0 to 10 to input numbers. Buttons 1 to 6 can operate the preset tuning for the tuner or disc changing for DVD player or multi CD player. Press CLEAR to clear the input numbers.</td>
<td>Press to select a menu on the DVD top menu.</td>
</tr>
<tr>
<td>15 BACK button</td>
<td>Press to return to the previous display.</td>
<td>Not used.</td>
</tr>
<tr>
<td>16 BAND button</td>
<td>Press to select among three FM bands and one AM band and to cancel control modes of functions.</td>
<td>Press to switch mode between compressed audio and audio data (CD DA) when playing discs with compressed audio and audio data (CD DA) such as CD EXTRA and MIXED MODE CDs.</td>
</tr>
<tr>
<td>17 PLAY/PAUSE (▶/II) button</td>
<td>Press to switch sequentially between playback and pause.</td>
<td></td>
</tr>
<tr>
<td>17 REVERSE (◄◄) button</td>
<td>Press to perform fast reverse.</td>
<td></td>
</tr>
<tr>
<td>17 FORWARD (►►) button</td>
<td>Press to perform fast forward.</td>
<td></td>
</tr>
<tr>
<td>17 PREVIOUS (◄◄) button</td>
<td>Press to return to the previous track (chapter).</td>
<td></td>
</tr>
<tr>
<td>17 NEXT (►►) button</td>
<td>Press to go to the next track (chapter).</td>
<td></td>
</tr>
<tr>
<td>17 STEP (II►/◄II) buttons</td>
<td>Press to move ahead one frame at a time during DVD/VideoCD playback. Press and hold for one second to activate slow playback.</td>
<td></td>
</tr>
<tr>
<td>17 STOP (■) button</td>
<td>Press to stop playback.</td>
<td></td>
</tr>
</tbody>
</table>
Using the remote control operation mode switch

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

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

- The joystick on the remote control can perform the same operations as the one on the head unit. Furthermore, the joystick can perform the same operations as the touch panel keys ▲, ▼, ◀ and ▶.
- **1 to 6** can perform the same operations as the preset tuning keys P1 to P6 and the disc selection keys 01 to 06.
  
  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 Operating the DVD menu on page 30.)
  - When operating the PBC menu by using 0 to 10. (Refer to Watching a Video CD on page 36.)
  - When specifying title by using 0 to 10. (Refer to Specifying title on page 32.)

**TV mode operation**
TV operations available with a Pioneer TV tuner can be controlled with AVH mode. TV mode is not used with this unit.

- For details concerning operation, refer to the TV tuner’s operation manuals.

---

<table>
<thead>
<tr>
<th>Button names</th>
<th>AVH mode</th>
<th>DVD mode with remote control code AVH</th>
</tr>
</thead>
<tbody>
<tr>
<td>18 AUTO PLAY button</td>
<td>Press to turn the DVD auto playback function on or off.</td>
<td></td>
</tr>
<tr>
<td>19 ▲/▼ buttons (FOLDER)</td>
<td>Press to select the next/previous folder.</td>
<td></td>
</tr>
<tr>
<td>20 Joystick</td>
<td>Move to do fast forward, reverse and track search controls. Click to recall MENU.</td>
<td>Move to select a menu on the DVD menu.</td>
</tr>
<tr>
<td>21 MENU button</td>
<td>Press to display the DVD menu during DVD playback.</td>
<td></td>
</tr>
<tr>
<td>TOP MENU (TOP M) button</td>
<td>Press to return to the top menu during DVD playback.</td>
<td></td>
</tr>
</tbody>
</table>
Turning the unit on and selecting a source

1. Source icon
   Shows which source has been selected.

You can select a source you want to listen to. To switch to the DVD player, load a disc in the unit.

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

The source names are displayed and selectable ones are highlighted.

- DISC 1 Built in DVD player disc 1
- DISC 2 Built in DVD player disc 2
- DISC 3 Built in DVD player disc 3
- DISC 4 Built in DVD player disc 4
- DISC 5 Built in DVD player disc 5
- DISC 6 Built in DVD player disc 6
- TUNER Tuner
- TV Television
- iPod iPod
- AUX1 AUX 1
- AUX2 AUX 2
- AV AV input
- NAVI Navigation unit
- TEL Bluetooth telephone
- BT Audio Bluetooth audio player
- EXT1 External unit 1
- EXT2 External unit 2
- M-CD Multi CD player
- XM XM tuner
- SIRIUS SIRIUS tuner
- OFF Turn the unit off
- ESC Close source select menu

- When the source icon is not displayed, you can display it by touching the screen.
- To return to the playback display, touch ESC

- When using the buttons, press SOURCE to select a source.

Press SOURCE repeatedly to switch between the following sources.

- XM (XM tuner)
- SIRIUS (SIRIUS tuner)
- TUNER (tuner)
- TV (television)
- AV (AV)
- DVD-V (built in DVD player)
- M-CD (multi CD player)
- iPod (iPod)
- EXT1 (external unit 1)
- EXT2 (external unit 2)
- AUX1 (AUX 1)
- AUX2 (AUX 2)
- NAVI (navigation unit)
- TEL (bluetooth telephone)
- BT Audio (bluetooth audio player)

Notes

- In the following cases, the sound source will not change.
  - When no unit corresponding to the selected source is connected.
  - When there is no disc in the unit.
  - When there is no magazine in the multi CD player.
  - When AUX (auxiliary input) is set to off (refer to page 103).
  - When the AV (AV input) is not set to VIDEO (refer to page 97).

- External unit refers to a Pioneer product (such as ones available in the future) that, although incompatible as a source, enables control of basic functions with this unit. Two external units can be controlled with this unit. When two external units are connected, the external unit is automatically allocated to external unit 1 or external unit 2 by this unit.
Loading/Ejecting discs

**CAUTION**
Keep hands and fingers clear of the unit when opening, closing, or adjusting the LCD panel. Be especially cautious of children’s hands and fingers.

### Loading a disc

Up to six discs can be stored into this unit. Each disc is stored in each disc holder allowing you to specify a holder for loading a disc.

1. **Press OPEN on the unit to display loading/ejecting menu.**
   The LCD panel opens halfway, and the loading/ejecting menu is displayed on the screen.
   - If the disc in the holder has already been played, the disc type is displayed on the holder icon (e.g. CD, DVD etc.).
   - **NO DISC** is displayed for an empty holder.

2. **Touch LOAD next to the holder you want to insert a disc in.**
   The selected holder flashes. When **READY** is displayed, this unit becomes on standby to load a disc into the holder.
   - If the holder has already loaded a disc, you need to eject the disc first. For details concerning about ejecting a disc, refer to *Ejecting a disc* on the next page.

The disc is loaded into the selected holder. Repeat these steps until you have done loading discs into this unit.
- To cancel loading the disc into the selected holder, touch **CANCEL**.

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

4. **To replace the LCD panel to the original position, press OPEN on the unit.**
   - 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 34.

### Notes

- The DVD player plays one, standard 12 cm disc at a time. Playing back an 8 cm disc is not possible with this unit. Playable disc and adapter are listed in the table below.

<table>
<thead>
<tr>
<th>12-cm disc</th>
<th>8-cm disc</th>
<th>8-cm disc adapter</th>
</tr>
</thead>
<tbody>
<tr>
<td>√</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- 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 9.
- 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 **OPEN** and touch ▲ to eject the disc, and check the disc for damage before inserting it again.
- If an error message is displayed, refer to *Error messages* on page 115.
Basic Operations

- If bookmark function is on, DVD playback resumes from the selected point. For more details, refer to Resume playback (Bookmark) on page 31.
- This unit does not automatically change discs even if it reaches to the end of the currently playing disc. To change discs, press ▲ or ▼ button (DISC) on the remote control.

Ejecting a disc
You can specify a holder that you eject a disc from.

1. Press OPEN on the unit to display loading/ejecting menu.
   The LCD panel opens halfway, and the loading/ejecting menu is displayed on the screen.
   - If the disc in the holder has already been played, the disc type is displayed on the holder icon (e.g. CD, DVD etc.).
   - NO DISC is displayed for an empty holder.

2. Touch ▲ next to the holder you want to eject the disc from.
   The disc is ejected.
   - You can eject all loaded discs at once. To do this, touch ALL▲.
   To cancel the all ejecting, touch CANCEL.

3. To replace the LCD panel to the original position, press OPEN on the unit.

Adjusting the flap angle
You can adjust the flap angle as needed.

Important
When adjusting the flap angle, be sure to follow the procedures explained below. Forcibly adjusting the flap angle by hand may damage it.

1. Press and hold OPEN button on the unit to display the flap angle adjust menu.

2. Touch + or - to adjust the flap angle.
   Each time you touch +, the flap comes out toward you. Touching moves the flap the other way around.
   - You can select from five positions for the flap angle.
   - The adjusted flap angle will be memorized. The next time you eject or load discs, the flap returns to the position where you set the angle.

Adjusting the volume
- Use VOLUME to adjust the sound level.
  Press VOLUME to increase or decrease the source volume.

Turning the unit off
- When using the touch panel keys, touch the source icon and then touch OFF.
  - When the source icon is not displayed, you can display it by touching the screen.
  - When using the buttons, press SOURCE and hold until the unit turns off.
  - To completely turn the display off, touch and hold DISP. OFF. Refer to Using the common touch panel keys on the next page.
Touch panel key basic operation

Activating the touch panel keys

1. **Common touch panel keys**
   For details, refer to *Using the common touch panel keys* on this page.

2. **Information bar**

3. **Touch panel keys**
   Touch to do various operations.

4. **Clock display**
   To turn the clock on or off, or to adjust the time, refer to *Setting the clock* on page 98.

1. **Touch the screen to activate the touch panel keys corresponding to each source.**
   The touch panel keys appear on the display.
   - To go to the next group of touch panel keys, touch →.

2. **Touch ESC to hide the touch panel keys.**

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

Using the common touch panel keys

**EQ key**
Touch **EQ** to display the equalizer curve setting menu. Adjust the equalizer curve and make the best sound characteristic for the sound type.
For details concerning operation, refer to *Using the equalizer* on page 81.

**AUDIO MENU key**
Touch **AUDIO MENU** to display the menu for various settings.
For details concerning operation, refer to *Operating the menu* on the next page.

**DISP. OFF key**
Touch and hold **DISP. OFF** to turn the display off. Touch the screen to turn the display on.

Using **DISP. OFF** to retract the vehicle’s antenna
At the standard setting, the vehicle’s auto antenna is automatically retracted when you select the source **OFF**. However, when AVG VDP1 is connected to this unit, your vehicle’s antenna may be kept up position even if the source **OFF** is selected. In that case, use **DISP. OFF** key and have the antenna retracted manually.

- Only when AVG VDP1 is connected to this unit, you can operate this function.

- **Touch the source OFF, and then, touch and hold** **DISP. OFF**.
  The display is turned off and your vehicle’s antenna is retracted.
  - When AVG VDP1 and the multi channel processor (e.g. DEQ P8000) are connected to this unit, the antenna should be retracted at the time when the source **OFF** is selected.
  - While the antenna is retracted, a beep from AVG VDP1 is not properly mixed with the audio sound outputted from this unit.
Operating the menu

① FUNCTION key
Touch to select functions for each source.

② AUDIO key
Touch to select various sound quality controls.

③ SETUP key
Touch to select various setup functions.

④ BACK key
Touch to return to the previous display.

⑤ ESC key
Touch to cancel the control mode of functions.

1 Touch AUDIO MENU to display MENU. MENU appears on the display.

2 Touch the desired key to display the function names you want to operate.
   • To go to the next group of function names, touch NEXT.
   • To return to the previous group of function names, touch PREV.

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

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

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

1 Source name
   Shows the selected source name.

2 Source icon
   Shows which source has been selected.

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

4 Preset number indicator
   Shows which preset has been selected.

5 STEREO indicator
   Appears when the selected frequency is being broadcast in stereo.

6 LOCAL indicator
   Appears when local seek tuning is on.

7 Frequency indicator
   Shows the frequency to which the tuner is tuned.

8 Preset list display
   Shows the preset list.

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

2 Touch the screen to display the touch panel keys.

3 Touch BAND to select a band.
   Touch BAND repeatedly until the desired band is displayed, FM1, FM2, FM3 for FM or AM.

4 To select a preset channel, touch a preset channel on the list or touch ▲ or ▼ (P.CH).
   The preset channel you selected is tuned in.
   - Touching LIST switches between the preset channel list display and the ▲/▼ (P.CH) display. Either way, the channels that can be selected are the same.

5 To perform manual tuning, briefly touch ◀ or ▶.
   The frequencies move up or down step by step.
   - You can also perform manual tuning by moving the joystick on the remote control left or right.

6 To perform seek tuning, keep touching ◀ or ▶ for about one second and release.
   The tuner will scan the frequencies until a broadcast strong enough for good reception is found.
   - You can cancel seek tuning by briefly touching either ◀ or ▶.
   - If you keep touching ◀ or ▶ you can skip stations. Seek tuning starts as soon as you release the key.
   - You can also perform seek tuning by holding the joystick on the remote control left or right.

Note

If you do not use the touch panel keys within 30 seconds, they will be hidden automatically. ■
Storing and recalling broadcast frequencies

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

- When you find a frequency that you want to store in memory keep touching one of preset tuning keys P1 to P6 until the preset number stops flashing.

The number you have touched will flash in the preset number indicator and then remain lit.

The selected radio station frequency has been stored in memory.

The next time you touch the same preset tuning key the radio station frequency is recalled from memory.

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

Notes

- Up to 18 FM stations, six for each of the three FM bands, and six AM stations can be stored in memory.
- You can also recall radio station frequencies assigned to preset tuning keys P1 to P6 by moving the joystick on the remote control up or down.

Introduction of advanced tuner operation

1. Function display
   Shows the function names.

   1. Touch AUDIO MENU to display MENU.
      MENU appears on the display.

   2. Touch FUNCTION to display the function names.
      The function names are displayed and operable ones are highlighted.
      - To return to the previous display, touch BACK.
      - To return to the frequency display, touch ESC.

Note

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

Storing the strongest broadcast frequencies

BSM (best stations memory) lets you automatically store the six strongest broadcast frequencies under preset tuning keys P1 to P6 and once stored there you can tune in to those frequencies with the touch of a key.
• Touch BSM on the function menu to turn BSM on. BSM appears. While BSM is flashing the six strongest broadcast frequencies will be stored under preset tuning keys P1 to P6 in order of their signal strength. When finished, BSM disappears.
  ▪ To cancel the storage process, touch BSM again.

Note
Storing broadcast frequencies with BSM may replace broadcast frequencies you have saved using P1 to P6.

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

1 Touch LOCAL on the function menu.

2 Touch ◀ on the LOCAL setting to turn local seek tuning on.
  ▪ To turn local seek tuning off, touch ►.

3 Touch ◀ or ► on the LEVEL setting to set the sensitivity.
There are four levels of sensitivity for FM and two levels for AM:
FM: 1 2 3 4
AM: 1 2
The 4 setting allows reception of only the strongest stations, while lower settings let you receive progressively weaker stations.
Playing DVD video discs

Watching a DVD video

These are the basic steps necessary to play a DVD video with your DVD player. More advanced DVD video operation is explained starting on page 34.

- Switch the remote control operation mode to DVD to perform DVD operations. (Refer to page 20.)

1 DVD Video indicator
   Shows when a DVD video is playing.

2 Source icon
   Shows which source has been selected.

3 Disc number indicator
   Shows the number of the disc playing.

4 Audio language indicator
   Shows which audio language has been selected.

5 Title number indicator
   Shows the title currently playing.

6 Chapter number indicator
   Shows the chapter currently playing.

7 Play time indicator
   Shows the elapsed playing time of the current chapter.

8 Viewing angle indicator
   Shows which viewing angle has been selected.

9 Subtitle language indicator
   Shows which subtitle language has been selected.

10 Audio output indicator
    Shows the output channel selected currently.

11 Repeat indicator
    Shows the selected repeat range.

1 Touch the source icon and then touch a desired DVD holder number (e.g. DISC 1) to select the DVD player.
   Selectable DVD holders are highlighted. If a disc is not inserted, you cannot select that DVD holder.
   ▪ When the source icon is not displayed, you can display it by touching the screen.
   ▪ With some discs, a menu may be displayed. (Refer to Operating the DVD menu on the next page.)
   ▪ This unit does not automatically change discs even if it reaches to the end of the currently playing disc. To change discs, press ▲ or ▼ button (DISC) on the remote control.

2 Touch the screen to display the touch panel keys.

3 Touch → to switch the menu.
   Touching → repeatedly changes the menus.

4 To skip back or forward to another chapter, touch ◄ or ►►.
   Touching ►► skips to the start of the next chapter. Touching ◄ once skips to the start of the current chapter. Touching it again will skip to the previous chapter.
- You can also skip back or forward to another chapter by pressing ◀ or ► button on the remote control.

5 To perform fast forward or reverse, keep touching ◀ or ►.
If you keep touching ◀ or ► for five seconds, fast reverse/fast forward continues even if you release ◀ or ►. To resume playback at a desired point, touch ►/II.
- You can also perform fast reverse/fast forward by pressing and holding ◀ or ► button on the remote control.
- Fast forward/fast reverse may not be possible at certain locations on some discs. If this happens, normal playback automatically resumes.

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

Operating the DVD menu
Some DVDs allow you to select from the disc contents using a menu.
- You can display the menu by touching MENU or TOP MENU while a disc is playing. Touching either of these keys again lets you start playback from the location selected from the menu. For details, refer to the instructions provided with the disc.

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

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

3 Touch ENTER.
Playback starts from the selected menu item.
- The way to display the menu differs depending on the disc.

Operating the DVD menu with 10 key
Some DVDs allow you to select from the disc contents using 10KEY.

1 Touch 10KEY.

2 Touch 0 to 9 corresponding to a menu number and then touch ENTER to start playback.
   - To select 3, touch 3.
   - To select 10, touch 1 and 0 in that order.
   - To select 23, touch 2 and 3 in that order.

Skipping back or forward to another title
- Touch ▲ or ▼ title key to skip back or forward to another title.
Touching ▲ skips to the start of the next title. Touching ▼ skips to the start of the previous title.
Title numbers are displayed for eight seconds.
- You can also skip back or forward to another title by moving the joystick up or down.

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

Pausing DVD video playback
Pause lets you temporarily stop disc playback.
Playing DVD video discs

Touch ▶/II during playback.
PAUSE is displayed on the information bar and playback is paused, letting you view a still image.
□ To resume playback at the same point that you turned pause on, touch ▶/II again.

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

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

During playback, touch 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 six discs. After that, the oldest bookmark is replaced by the new one.
□ To clear the bookmark on a disc, keep touching BOOKMARK during playback.
□ You can also bookmark a disc using BOOKMARK button on the remote control.

Note
One bookmark point can be stored for each disc holder independently.

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

Touch ▶ during playback.
Each time you touch ▶, you move ahead one frame.
□ To return to normal playback, touch ▶/II.

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

Slow motion playback
This lets you slow down playback speed.

1 Keep touching ▶ during playback.
A beep sounds and forward slow motion playback begins.
□ To return to normal playback, touch ▶/II.

2 Touch ◀ or ▶ to adjust playback speed during slow motion playback.
Each time you touch ◀ or ▶ it changes the speed in four steps in the following order:
1/16 1/8 1/4 1/2

Note
- There is no sound during slow motion playback.
- Depending on the disc and the playback location on the disc, the icon may be displayed, indicating that slow motion playback is not possible.
- With some discs, images may be unclear during slow motion playback.
- Reverse slow motion playback is not possible.
Searching for a desired scene, starting playback from a specified time

You can use the search function to search for a desired scene by specifying a title or chapter, and the time search function to specify the time on a disc at which play starts.
- Chapter search and time search are not possible when disc playback has been stopped.

1 Touch SEARCH.
2 Touch TITLE (title), CHAP. (chapter) or TIME (time).
3 Touch 0 to 9 to input the desired number.
   For titles and chapters
   - To select 3, touch 3.
   - To select 10, touch 1 and 0 in that order.
   - To select 23, touch 2 and 3 in that order.
   For time (time search)
   - To select 21 minutes 43 seconds, touch 2, 1, 4 and 3 in that order.
   - To select 1 hour 11 minutes, convert the time into 71 minutes 00 seconds and touch 7, 1, 0 and 0 in that order.
   - To cancel the inputted numbers, touch C.
4 While the inputted number is displayed, touch ENTER.
   This starts playback from the selected scene.

Specifying title

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

1 Touch 10KEY.
   - This feature is available only when the playback is stopped. If you are playing back a disc, touch ■ to stop the playback and then touch 10KEY.
2 Touch 0 to 9 corresponding to a desired title number.
   - To select 3, touch 3.
   - To select 10, touch 1 and 0 in that order.
   - To select 23, touch 2 and 3 in that order.
3 While the inputted number is displayed, touch ENTER.
   Title number is displayed for eight seconds and playback starts from the selected title.

Note

To perform this function with the remote control, switch the remote control operation mode to DVD. (Refer to Using the remote control operation mode switch on page 20.) ■

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 Touch AUDIO during playback.
   Each time you touch AUDIO it switches between audio systems.
Changing the subtitle language during playback (Multi-subtitle)

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

- Touch SUB TITLE during playback.
  Each time you touch SUB TITLE it switches between subtitle languages.

### Notes
- You can also switch between subtitle languages using SUB TITLE on the remote control.
- The number in the 2 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. For details, refer to Setting the subtitle language on page 99.
- Touching SUB TITLE during fast forward/fast reverse, pause or slow motion playback returns you to normal playback.

Changing the viewing angle during playback (Multi-angle)

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

- During playback of a scene shot from multiple angles, the angle icon is displayed. Turn angle icon display on or off using DVD SETUP. For details, refer to Setting the angle icon display on page 100.

- Touch ANGLE during playback of a scene shot from multiple angles.
  Each time you touch ANGLE it switches between angles.

### Notes
- You can also change the angle using ANGLE on the remote control.
- The 3 mark on a DVD’s package indicates it features multi angle scenes. The number in the 3 mark indicates the number of angles from which scenes were shot.
- Touching ANGLE during fast forward/fast reverse, pause or slow motion playback returns you to normal playback.
Return to the specified scene

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

- Touch RETURN to return to the specified scene.

Note

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

Automatic playback of DVDs

When a DVD disc with DVD menu is inserted, this unit will cancel the DVD menu automatically and start playback from the first chapter of the first title.
- Some DVDs may not operate properly. If this function is not fully operated, turn this function off and start playback.

- Touch AUTO PLAY to turn automatic playback on.
  - To turn automatic playback off, touch AUTO PLAY again.
  - You can also turn automatic playback on or off by pressing AUTO PLAY button on the remote control.
  - When the automatic playback is on, you cannot operate repeating play of DVD disc (refer to Repeating play on this page).

Introduction of advanced DVD video operation

1. Function display
   Shows the function names.

   1 Touch AUDIO MENU to display MENU. MENU appears on the display.

   2 Touch FUNCTION to display the function names.

     The function names are displayed and operable ones are highlighted.
     - To return to the previous display, touch BACK.
     - To return to the playback display, touch ESC.

Note

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

Repeating play

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

- Touch REPEAT on the function menu to select the repeat range.
  - DISC Play through the current disc
  - CHAPTER Repeat the current chapter
Notes

- If you perform chapter search or fast forward/reverse, the repeat play range changes to DISC.
- Depending on the disc and the playback location on the disc, the function may not be selectable, indicating that operating this function is not possible.

Selecting audio output

You can switch the audio output.
- This function is not possible when disc playback has been stopped.

- Touch L/R SELECT on the function menu to select the audio output.
  - L+R left and right
  - LEFT left
  - RIGHT right

Note

Depending on the disc and the playback location on the disc, the function may not be selectable, indicating that operating this function is not possible.
These are the basic steps necessary to play a Video CD with your DVD player. More advanced Video CD operation is explained starting on page 39.

- Switch the remote control operation mode to DVD to perform Video CD operations. (Refer to page 20.)

1. **Video CD indicator**
   Appears when a video CD is playing.

2. **Source icon**
   Shows which source has been selected.

3. **Disc number indicator**
   Shows the number of the disc playing.

4. **Track number indicator**
   Shows the number of the track playing.

5. **Play time indicator**
   Shows the elapsed playing time of the current track.

6. **Audio output indicator**
   Shows the output channel selected currently.

7. **Repeat indicator**
   Shows the selected repeat range.

1. Touch the source icon and then touch a desired DVD holder number (e.g. DISC 1) to select the DVD player.
   - When the source icon is not displayed, you can display it by touching the screen.
   - With a Video CD featuring the PBC (playback control) function, a menu is displayed.
   - This unit does not automatically change discs even if it reaches to the end of the currently playing disc. To change discs, press ▲ or ▼ button (DISC) on the remote control.

2. Touch the screen to display the touch panel keys.

3. Touch 10KEY and then touch 0 to 9 to select the desired menu item.
   - Depending on the discs, the menu may be two or more pages long. In such case, touch ▶ or ▼ to display the next or previous menu.
   - Once you confirm a desired menu number, touch 10KEY to make the selection.

4. While the inputted number is displayed, touch ▼.
   Playback starts from the selected menu item.
   - You can display the menu by pressing RETURN during PBC playback. For details, refer to the instructions provided with the disc.

5. To skip back or forward to another track, briefly touch ▶ or ▼.
   Touching ▶ skips to the start of the next track. Touching ▼ once skips to the start of the current track. Touching it again will skip to the previous track.
   Track numbers are displayed for eight seconds.
   - You can also skip back or forward to another track by pressing ▼ or ▼ button on the remote control.
   - During PBC playback, a menu may be displayed if you perform these operations.
Playing Video CDs

6 To perform fast forward or reverse, keep touching ◄ or ►.
   If you keep touching ◄ or ► for five seconds, fast reverse/fast forward continues even if you release ◄ or ►. To resume playback at a desired point, touch ►/II.
   - You can also perform fast reverse/fast forward by pressing and holding ◄ or ► button on the remote control.
   - Fast forward/fast reverse may not be possible at certain locations on some discs. If this happens, normal playback automatically resumes.

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

Stopping playback

- Touch ■.
   - When you stop Video CD playback (during PBC playback only) by touching ■, that location on the disc is memorized, enabling playback from that point when you play the disc again.
   - To play back the disc again, touch ►/II.

Pausing Video CD playback

Pause lets you temporarily stop disc playback.

- Touch ►/II during playback.
   PAUSE is displayed on the information bar and playback is paused, letting you view a still image.
   - To resume playback at the same point that you turned pause on, touch ►/II again.

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

Frame-by-frame playback

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

- Touch ► during playback.
   Each time you touch ►, you move ahead one frame.
   - To return to normal playback, touch ►/II.

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

Slow motion playback

This lets you slow down playback speed.

1 Keep touching ◄ during playback.
   A beep sounds and forward slow motion playback begins.
   - To return to normal playback, touch ►/II.

2 Touch ◄ or ► to adjust playback speed during slow motion playback.
   Each time you touch ◄ or ► it changes the speed in four steps in the following order:
   1/16  1/8  1/4  1/2

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

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

## Searching for a desired scene, starting playback from a specified time

You can use the search function to search for a desired scene by specifying a track, and the time search function to specify the time on a disc at which play starts.

- During playback of Video CDs featuring PBC (Playback Control), this function can not be operated.
- Time search is not possible when disc playback has been stopped.

1. Touch SEARCH.
2. Touch TRACK (track) or TIME (time).
3. Touch 0 to 9 to input the desired number.
   - For tracks:
     - To select 3, touch 3.
     - To select 10, touch 1 and 0 in that order.
     - To select 23, touch 2 and 3 in that order.
   - For time (time search):
     - To select 21 minutes 43 seconds, touch 2, 1, 4 and 3 in that order.
     - To select 1 hour 11 minutes, convert the time into 71 minutes 00 seconds and touch 7, 1, 0 and 0 in that order.

4. While the inputted number is displayed, touch ENTER. This starts playback from the selected scene.

## PBC playback

During playback of Video CDs featuring PBC (Playback Control), **PBC ON** is displayed. You can operate PBC menu with **10KEY**.

1. When PBC menu is displayed, touch 10KEY.
   - You can display the menu by touching RETURN during PBC playback. For details, refer to the instructions provided with the disc.
   - Depending on the discs, the menu may be two or more pages long. In such case, touch  to display the next or previous menu. Once you confirm a desired menu number, touch 10KEY to make the selection.

2. Touch 0 to 9 corresponding to a menu number and then touch  to start playback.
   - To select 3, touch 3.
   - To select 10, touch 1 and 0 in that order.
   - To select 23, touch 2 and 3 in that order.

# Notes

- PBC playback of Video CD cannot be cancelled.
- During playback of Video CDs featuring PBC (Playback Control), **PBC ON**, search and time search functions cannot be used nor can you select the range for repeat play.
Introduction of advanced Video CD operation

1. **Function display**
   Shows the function names.

   1. Touch AUDIO MENU to display MENU. MENU appears on the display.

   2. Touch FUNCTION to display the function names.
      The function names are displayed and operable ones are highlighted.
      - To return to the previous display, touch BACK.
      - To return to the playback display, touch ESC.

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

3. **Repeating play**
   There are two repeat play ranges for the Video CD playback: TRACK (track repeat) and DISC (disc repeat).
   - During playback of Video CDs featuring PBC (playback control), this function cannot be operated.

   - Touch REPEAT on the function menu to select the repeat range.
     - TRACK Repeat the current track
     - DISC Repeat the current disc

4. **Selecting audio output**
   You can switch the audio output.
   - This function is not possible when disc playback has been stopped.

   - Touch L/R SELECT on the function menu to select the audio output.
     - L+R left and right
     - LEFT left
     - RIGHT right

5. **Notes**
   - You can also switch the audio output using AUDIO on the remote control.
   - Depending on the disc and the playback location on the disc, the function may not be selectable, indicating that operating this function is not possible.
Playing CDs

Listening to a CD

These are the basic steps necessary to play a CD with your DVD player. More advanced CD operation is explained starting on page 42.

1. **CD/CD-TEXT indicator**
   Shows when a CD is playing.

2. **Source icon**
   Shows which source has been selected.

3. **Disc number indicator**
   Shows the number of the disc playing.

4. **Disc title indicator**
   Shows the title of the currently playing disc.

5. **Track number indicator**
   Shows the number of the track playing.

6. **Play time indicator**
   Shows the elapsed playing time of the current track.

7. **Repeat indicator**
   Shows when repeat range is selected to current track.

1. Touch the source icon and then touch a desired DVD holder number (e.g. DISC 1) to select the DVD player.
   Selectable DVD holders are highlighted. If a disc is not inserted, you cannot select that DVD holder.
   - When the source icon is not displayed, you can display it by touching the screen.
   - This unit does not automatically change discs even if it reaches to the end of the currently playing disc. To change discs, press ▲ or ▼ button (DISC) on the remote control.

2. Touch the screen to display the touch panel keys.

3. Touch LIST to display track titles and touch a desired title that you want to play back.
   The selected track will begin to play.

4. To skip back or forward to another track, briefly touch ◀ or ▶.
   Touching ▶ skips to the start of the next track. Touching ◀ once skips to the start of the current track. Touching it again will skip to the previous track.
   - If tracks are many, you can change to the previous or next page of the track list by touching ◄ or ►.
   - You can also skip back or forward to another track by pressing ◄ or ► button on the unit or moving the joystick on the remote control left or right.

5. To perform fast forward or reverse, keep touching ◀ or ▶.
   - You can also perform fast reverse/fast forward by pressing and holding ◄ or ► button on the unit or holding the joystick on the remote control left or right.
Notes

- When playing discs with compressed audio and audio data (CD DA) such as CD EXTRA and MIXED MODE CDs, both types can be played only by switching mode between compressed audio and CD DA by touching MEDIA or pressing BAND. This function can be operated only when the disc is playing.
- If you do not use the touch panel keys within 30 seconds, they will be hidden automatically.

Stopping playback

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

Pausing CD playback

Pause lets you temporarily stop disc playback.

- Touch ▶/■ during playback. PAUSE appears in the display. Play of the current track pauses.
  - To resume playback at the same point that you turned pause on, touch ▶/■ again. ■

Using CD TEXT functions

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

Displaying text information on CD TEXT discs

- Touch DISP.
  Touch DISP repeatedly to switch between the following settings:
  - Disc Title (disc title)
  - Disc Artist (disc artist name)
  - Track Title (track title)
  - Track Artist (track artist name)
  - If specific information has not been recorded on a CD TEXT disc, NO XXXX will be displayed (e.g., NO T.ARTIST NAME).

Scrolling text information in the display

This unit can display the first 20 letters only of Disc Title, Disc Artist, Track Title and Track Artist. When the recorded information is longer than 20 letters, you can scroll the text to the left so that the rest of the title can be seen.

- Keep touching DISP until the title begins to scroll to the left.
  The rest of the title will appear in the display. ■
Introduction of advanced CD operation

1 Function display
   Shows the function names.

1 Touch AUDIO MENU to display MENU.
   MENU appears on the display.
   - You can also display MENU by clicking the joystick on the remote control.

2 Touch FUNCTION to display the function names.
   The function names are displayed and operable ones are highlighted.
   - To return to the previous display, touch BACK.
   - To return to the playback display, touch ESC.

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

Repeating play
   Repeat play lets you hear the same track over again.
   - Touch REPEAT on the function menu to select the repeat range.
     - TRACK Repeat the current track
     - DISC Repeat the current disc

Playing tracks in random order
   Random play lets you play back tracks on the CD in a random order.
   - Touch RANDOM on the function menu to turn random play on.
   - Tracks play in a random order.
   - To turn random play off, touch RANDOM again.

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

1 Touch SCAN on the function menu to turn scan play on.
   The first 10 seconds of each track is played.

2 When you find the desired track touch SCAN again.

Notes
   After scanning of a CD is finished, normal playback of the tracks will begin again.
These are the basic steps necessary to play a compressed audio with your built-in DVD player. More advanced compressed audio operation is explained starting on page 46.

1 Media indicator
   MP3, WMA or MIX appears depending on the file format you are playing.
   When playing discs with compressed audio and audio data (CD DA) such as CD EXTRA and MIXED MODE CDs, MIX is displayed.

2 Source icon
   Shows which source has been selected.

3 Disc number indicator
   Shows the number of the disc playing.

4 Folder name indicator
   Shows the name of the currently playing folder.

5 Folder number indicator
   Shows the folder number currently playing.

6 Track number indicator
   Shows the track (file) number currently playing.

7 Play time indicator
   Shows the elapsed playing time of the current track (file).

8 Repeat indicator
   Shows the selected repeat range.

1 Touch the source icon and then touch a desired DVD holder number (e.g. DISC 1) to select the DVD player.
   Selectable DVD holders are highlighted. If a disc is not inserted, you cannot select that DVD holder.
   - When the source icon is not displayed, you can display it by touching the screen.

2 Touch the screen to display the touch panel keys.

3 Touch LIST to display track titles and touch a desired title that you want to play back.
   The selected track will begin to play.

4 To skip back or forward to another track, briefly touch ◄ or ►.
   Touching ► skips to the start of the next track. Touching ◄ once skips to the start of the current track. Touching it again will skip to the previous track.
   - You can also skip back or forward to another track by pressing ◄ or ► button on the unit or moving the joystick on the remote control left or right.

5 To perform fast forward or reverse, keep touching ◄ or ►.
   - You can also perform fast reverse/fast forward by pressing and holding ◄ or ► button on the unit or holding the joystick on the remote control left or right.
   - There is no sound on fast forward or reverse.
6 To select a folder, touch ↑ to show the folder one level higher and touch a folder name on the list.
- You can also select the next or previous folder by pressing ▲ or ▼ button (FOLDER) on the remote control.
- To return to folder 001 (ROOT), press and hold BAND. However, if folder 001 (ROOT) contains no files, playback commences with folder 002.
- You cannot select a folder that does not have a compressed audio file recorded in it.

Notes
- When playing discs with compressed audio and audio data (CD DA) such as CD EXTRA and MIXED MODE CDs, both types can be played only by switching mode between compressed audio and CD DA by touching MEDIA or pressing BAND. This function can be operated only when the disc is playing.
- If you have switched between playback of compressed audio and audio data (CD DA), playback starts at the first track on the disc.
- This DVD player can play back a compressed audio recorded on CD ROM. (Refer to page 118 for files that can be played back.)
- There is sometimes a delay between starting up disc playback and the sound being issued. When being read, FORMAT READ is displayed.
- Playback is carried out in order of file number. Folders are skipped if they contain no files. (If folder 001 (ROOT) contains no files, playback commences with folder 002.)
- This unit does not play back WMA files recorded as VBR (variable bit rate).
- When playing back files recorded as VBR (variable bit rate) files, the play time will not be correctly displayed if fast forward or reverse operations are used.
- If the inserted disc contains no files that can be played back, NON-PLAYABLE DISC is displayed.
- When playing a compressed audio disc containing more than 192 tracks, READY appears on the information bar for the track titles of 193rd and later.
- If the inserted disc contains WMA files that are protected by digital rights management (DRM), TRACK SKIPPED is displayed while the protected file is skipped.
- If all the files on the inserted disc are secured by DRM, PROTECT is displayed.
- Once PROTECT is displayed for playing discs secured by DRM, switching from audio data (CD DA) to WMA files may become a trigger to lock the list touch panel keys. In such case, touch LIST to turn the list display off and then touch LIST again to turn it on. The list touch panel keys should be reactivated.
- When a disc contains both WMA files which are protected by DRM and audio data (CD DA), both types cannot be switched. In this case, only audio data will be played back.
- There is no sound on fast forward or reverse.
- If you do not use the touch panel keys within 30 seconds, they will be hidden automatically.

Stopping playback
- Touch ■.
- When you stop compressed audio playback by touching ■, that location on the disc is memorized, enabling playback from that point when you play the disc again.
- To play back the disc again, touch ►/II. [ ]

Pausing compressed audio playback
Pause lets you temporarily stop disc playback.
Playing compressed audio

Touch ►/II during playback. PAUSE appears in the display. Play of the current track pauses.
- To resume playback at the same point that you turned pause on, touch ►/II again.

Displaying information on compressed audio
Information recorded on a compressed audio disc can be displayed.

1 Touch FILE INFO to display information on the compressed audio file you are currently playing.
   - ALBUM (album title)
   - TRACK (track title)
   - FOLDER (folder name)
   - FILE (file name)
   - ARTIST (artist name)
   - GENRE (genre)
   - YEAR (year)
- When playing back WMA files, lists of album title, genre and year appear in blank.
- If specific information has not been recorded on a compressed audio file, the list appears in blank.
- Depending on the version of ID3 tag or Windows Media Player, the information may not be displayed correctly.

2 To return to the normal display, touch ESC.

Displaying text information on compressed audio disc
Text information recorded on a compressed audio disc can be displayed on the information bar.

- Touch DISP. Touch DISP repeatedly to switch between the following settings:
  - Folder Name (folder name)
  - File Name (file name)
  - Track Title (track title)
  - Artist Name (artist name)
  - Album Title (album title)
  - Comment (comment)
  - BitRate (bit rate)
- When playing back WMA files, album title and comment are not displayed.
- When a list of folders/files is displayed by the touch of LIST, Current (currently playing folder) is displayed instead of Folder Name.
- When playing back MP3 files recorded as VBR (variable bit rate) files, the bit rate value is not displayed even after switching to bit rate. (VBR will be displayed.)
- If specific information has not been recorded on a compressed audio disc, NO XXXX will be displayed (e.g., NO ARTIST NAME).

Scrolling text information in the display
This unit can display the first 20 letters only of Folder Name, File Name, Track Title, Artist Name, Album Title and Comment on the information bar. When the recorded information is longer than 20 letters, you can scroll the text to the left so that the rest of the text information can be seen.

- Keep touching DISP until the text information begins to scroll to the left. The rest of the text information will appear in the display.
Introduction of advanced built-in DVD player (compressed audio) operation

1 Touch AUDIO MENU to display MENU. MENU appears on the display.
   - You can also display MENU by clicking the joystick on the remote control.

2 Touch FUNCTION to display the function names.
The function names are displayed and operable ones are highlighted.
   - To return to the previous display, touch BACK.
   - To return to the playback display, touch ESC.

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

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

- Touch REPEAT on the function menu to select the repeat range.
  - DISC  Repeat all tracks
  - TRACK  Repeat the current track
  - FOLDER  Repeat the current folder

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

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

1 Select the repeat range.
Refer to Repeating play on this page.

2 Touch RANDOM on the function menu to turn random play on.
Tracks will play in a random order within the previously selected FOLDER or DISC ranges.
   - To turn random play off, touch RANDOM again.
Scanning folders and tracks
While you are using FOLDER, the beginning of each track in the selected folder plays for about 10 seconds. When you are using DISC, the beginning of the first track of each folder is played for about 10 seconds.

1 Select the repeat range.
Refer to Repeating play on the previous page.

2 Touch SCAN on the function menu to turn scan play on.
The first 10 seconds of each track of the current folder (or the first track of each folder) is played.

3 When you find the desired track (or folder) touch SCAN again.

Note
After track or folder scanning is finished, normal playback of the tracks will begin again.
Listening to a CD

You can use this unit to control a multi CD player, which is sold separately. These are the basic steps necessary to play a CD with your multi CD player. More advanced CD operation is explained starting on page 50.

1 **Source name**
   Shows the selected source name.

2 **Source icon**
   Shows which source has been selected.

3 **Disc number indicator**
   Shows the number of the disc playing.

4 **Disc title indicator**
   Shows the title of the currently playing disc.

5 **Track number indicator**
   Shows the number of the track playing.

6 **Play time indicator**
   Shows the elapsed playing time of the current track.

7 **Disc list display**
   Shows the disc title list.

8 **Repeat indicator**
   Shows the selected repeat range.

1 Touch the source icon and then touch M-CD to select the multi-CD player.
   - When the source icon is not displayed, you can display it by touching the screen.

2 Touch the screen to display the touch panel keys.

3 Touch LIST to display disc titles and touch a desired disc that you want to play back.
   Operable disc titles are highlighted. If you want to select a disc located at 7 to 12, touch or to display 07 to 12.
   - If the connected multi CD player is not compatible with the disc title list function, LIST is not displayed.

4 To skip back or forward to another track, briefly touch or .
   Touching skips to the start of the next track. Touching once skips to the start of the current track. Touching it again will skip to the previous track.
   - You can also skip back or forward to another track by pressing or button on the unit or moving the joystick on the remote control left or right.

5 To perform fast forward or reverse, keep touching or .
   - You can also perform fast reverse/fast forward by pressing and holding or button on the unit or holding the joystick on the remote control left or right.

**Notes**

- When multi CD player completes preparatory operations, READY is displayed.
- If an error message such as ERROR-02 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.
If you do not use the touch panel keys within 30 seconds, they will be hidden automatically.

Pausing CD playback
Pause lets you temporarily stop disc playback.

- Touch ▶/‖ during playback. PAUSE appears in the display. Play of the current track pauses.
  - To resume playback at the same point that you turned pause on, touch ▶/‖ again.

Using CD TEXT functions
You can use these functions only with a CD TEXT compatible multi CD player.
Some discs have certain information encoded on the disc during manufacture. These discs may contain such information as the CD title, track title, artist's name and playback time and are called CD TEXT discs. Only these specially encoded CD TEXT discs support the functions listed below.

Displaying text information on CD TEXT discs
Text information recorded on a CD TEXT disc can be displayed on the information bar.

- Touch DISP.
  Touch DISP repeatedly to switch between the following settings:
  Disc Title (disc title)  Disc Artist (disc artist name)  Track Title (track title)  Track Artist (track artist name)
  - If specific information has not been recorded on a CD TEXT disc, NO XXXX will be displayed (e.g., NO T. ARTIST NAME).

Scrolling text information in the display
This unit can display the first 20 letters only of Disc Title, Disc Artist, Track Title and Track Artist on the information bar. When the recorded information is longer than 20 letters, you can scroll the text to the left so that the rest of the title can be seen.

- Keep touching DISP until the title begins to scroll to the left.
The rest of the title will appear in the display.

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

1. Touch AUDIO MENU and FUNCTION and then touch TRACK LIST.
2. Touch ◀ or ▶ to switch between the lists of titles.
3. Touch your favorite track title.
That selection will begin to play.

50-disc multi-CD player
Only functions described in this manual are supported by 50 disc multi CD players.
Introduction of advanced multi-CD player operation

1. Function display
   Shows the function names.

1 Touch AUDIO MENU to display MENU. MENU appears on the display.
   - You can also display MENU by clicking the joystick on the remote control.

2 Touch FUNCTION to display the function names.
The function names are displayed and operable ones are highlighted.
   - To go to the next group of function names, touch NEXT.
   - To return to the previous group of function names, touch PREV.
   - To return to the previous display, touch BACK.
   - To return to the playback display, touch ESC.

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

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

- Touch REPEAT on the function menu to select the repeat range.
  - M-CD Repeat all discs in the multi CD player
  - TRACK Repeat just the current track
  - DISC Repeat the current disc

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

Playing tracks in random order
Random play lets you play back tracks in random order within the repeat range, M-CD and DISC.

1 Select the repeat range.
   Refer to Repeating play on this page.

2 Touch RANDOM on the function menu to turn random play on.
   Tracks will play in a random order within the previously selected M-CD or DISC ranges.
   - To turn random play off, touch RANDOM again.

scan off
M-CD<br>REPEAT<br>MENU<br>FUNCTION<br>OFF<br>DISC<br>OFF<br>track list<br>its play<br>its memory<br>ESC<br>next<br>PREV

Note
If you do not operate the function within about 30 seconds, the display is automatically returned to the playback display.
Scanning CDs and tracks
While you are using DISC, the beginning of each track on the selected disc plays for about 10 seconds. When you are using M-CD, the beginning of the first track of each disc is played for about 10 seconds.

1 Select the repeat range.
Refer to Repeating play on the previous page.

2 Touch SCAN on the function menu to turn scan play on.
The first 10 seconds of each track of the current disc (or the first track of each disc) are played.

3 When you find the desired track (or disc) touch SCAN again.

Note
After track or disc scanning is finished, normal playback of the tracks begins again.

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

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 multi CD players sold before the CDX P1250 and CDX P650, up to 24 tracks can be stored in the playlist.)

1 Play a CD that you want to program.
Touch ▲ or ▼ to select the CD.

2 Touch ITS MEMORY on the function menu.

3 Touch ◀ or ▶ to select the desired track.

4 Touch MEMORY to store the currently playing track in the playlist.
MEMORY is displayed and the currently playing selection is added to your playlist. The display then shows track number again.

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

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

1 Select the repeat range.
Refer to Repeating play on the previous page.

2 Touch ITS PLAY on the function menu to turn ITS play on.
Playback begins of those tracks from your playlist within the previously selected M-CD or DISC ranges.
- If no tracks in the current range are programmed for ITS play, then ITS EMPTY is displayed.
- To turn ITS play off, touch ITS PLAY again.
Erasing a track from your ITS playlist
You can delete a track from your ITS playlist if ITS play is on.
If ITS play is already on, skip to step 2.

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 Touch ITS MEMORY on the function menu.

3 Touch ▲ or ▼ to select the desired track.

4 Touch CLEAR to erase the track from your ITS playlist.
The currently playing selection is erased from your ITS playlist and playback of the next track begins.
- If there are no tracks from your playlist in the current range, ITS EMPTY is displayed and normal playback resumes.

Using compression and bass emphasis
You can only use these functions with a multi CD player that supports them.
COMP (compression) and DBE (dynamic bass emphasis) functions lets you adjust the sound playback quality of the multi CD player.

- Touch COMPRESSION on the function menu to select your favorite setting.
Touch COMPRESSION repeatedly to switch between the following settings:
COMP OFF  COMP 1  COMP 2
COMP OFF  DBE 1  DBE 2
- If the multi CD player does not support COMP/DBE, COMPRESSION cannot be selected.

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.
Touch ▲ or ▼ to select the CD.

2 Touch ITS MEMORY on the function menu.

3 Touch CLEAR to erase all tracks on the currently playing CD from your ITS playlist.
ITS CLEAR is displayed and all tracks on the currently playing CD are erased from your playlist. 
Listening to XM Satellite Radio

You can use this unit to control an XM satellite digital tuner (GEX-P920XM), which is sold separately.

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

- This unit does not have the text scroll function.

1 Source name
   Shows the selected source name.

2 Source icon
   Shows what the source has been selected.

3 XM band indicator
   Shows the XM band which has been selected.

4 XM preset number indicator
   Shows what XM preset has been selected.

5 XM channel select setting indicator
   Shows what channel select setting has been selected. ALL CH is displayed when ALL CH is selected for the channel select mode, and CATEGORY is displayed when CATEGORY is selected for the channel select mode.

   - Refer to Switching the XM channel select mode on the next page.

6 XM channel number indicator
   Shows to which XM channel number the tuner is tuned.

7 Category select keys/preset select keys
   Shows the category select keys when the channel select setting is CATEGORY or the preset select keys when the channel select setting is ALL CH.

8 Detail information or preset list display
   Shows the detail information of the broadcast channel currently being received or the preset list.

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

2 Touch the screen to display the touch panel keys.

3 Touch BAND to select an XM band.
   Touch BAND repeatedly until the desired XM band is displayed, XM1, XM2 or XM3.

4 Touch ◀ or ▶ to select a desired channel.
   The channels move up or down step by step. Channels that cannot currently be selected are skipped, and the next channel is selected.

   - If you touch and hold ◀ or ▶, you can increase or decrease the channel number continuously.
   - You can also select a channel by pressing ◀ or ▶ button.
   - You can also perform tuning from a desired channel category. (Refer to Selecting a channel in the channel category on the next page.)
Notes
- If you do not use the touch panel keys for 30 seconds, they will be hidden automatically.
- You can go to the next group of touch panel keys by touching ➔.

Switching the XM channel select mode
You have two methods for selecting a channel: ALL CH mode and CATEGORY mode. When selecting ALL CH mode, channels in any category can be selected. Select CATEGORY mode to narrow your search down to only channels in a particular category.

- Touch MODE to select the desired channel select mode.
  Touch MODE repeatedly to switch between the two modes.
  ALL CH (all channel select mode)
  CATEGORY (channel category select setting)

Switching between the detail information display and preset list display
You can switch the left side of the basic screen according to your preference.

- Touch LIST.
  Touch LIST repeatedly to switch between the followings:
  Detail information display ➔ Preset list display ➔ OFF

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

1 Select the channel that you want to store in memory.

2 Touch LIST to display the preset list.
  - When the touch panel keys are not displayed, you can display them by touching the screen.

3 Touch and hold a preset tuning key P1 to P6 until the XM preset number stops flashing.
  The number you have touched will flash in the XM preset number indicator and then remain lit. The selected station has been stored in memory.
  The next time you touch the same preset tuning key P1 to P6 the station is recalled from memory.

Notes
- Up to 18 stations, six for each of three XM bands can be stored in memory.
- You can also use ▲ and ▼ to recall stations assigned to preset tuning keys P1 to P6 when the ALL CH mode is selected.

Selecting a channel
Selecting a channel in the channel category
1 Touch MODE to select the channel category select mode.
  CATEGORY appears on the information bar.
2 Touch ▲ or ▼ to select the desired channel category.

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

Selecting a channel from the XM channel list display
The list content can be switched so you can search for the track you want to listen to not only by the channel name but also by the artist name or song title.
- The channel list shows all the channels during the ALL CH mode, and the channels included in the selected category during the CATEGORY mode. To switch the channel mode, touch MODE.

1 Touch .
XM channel list appears in the display.
Each touch of . changes the following settings as follows:
Ch Name List (channel name)
Song Title List (song title)  Artist Name List (artist name)

2 Touch the desired channel that you want to listen to.
- When the CATEGORY mode is selected, touch ▲ or ▼ to switch to another category.

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

1 Touch DIRECT.
CHANNEL INPUT appears in the display.

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

3 While the input number is displayed, touch ENTER.
The XM channel of entered number is selected.

4 To return to the normal display, touch ESC.

Using the MyMix function
The MyMix function allows you to make the MyMix song playlist. When the song in the MyMix playlist is being broadcast on a station other than the one you are listening to, you will be alerted, and you can tune to the station to listen to that song.
- A track itself is NOT downloaded BUT only the song title and the artist name are memorized.

Making the MyMix playlist
You can add a song that is being broadcast to the MyMix playlist. When it is added, the song title and its artist name is memorized to this unit. The MyMix function will start on the song that matches the song title and its artist name in the MyMix playlist.

1 When a desired song is broadcast, touch and hold MEMO.
The song title and artist name of the song you are listening to are memorized, and a confirmation message appears.
- The song title and artist name of up to 10 tracks can be memorized. When you try to save more than 10 tracks, FULL is displayed and that song being broadcast cannot be saved.
- You cannot memorize the song title or the artist name when “ ” is displayed on the title information.
- You cannot memorize the song title or the artist name of the channel 000.
When the song in the MyMix playlist is broadcast
As soon as the song in the MyMix playlist starts broadcast on a different station, a message is displayed. Touch YES to switch to that station, and you can listen to that song.

- If you would rather not to tune to that station, touch NO.
- If an alert for the song in the MyMix playlist is set up to off, no alert will be provided even when the song is broadcast. Refer to Setting up a song alert on page 62.
- If there is slight difference between the memorized title and the title of the song being broadcast, no alert will be provided even though they are the same song.

Setting up a song alert
You can set up an alert on or off by each song in the MyMix playlist. First, display the MyMix playlist and then change each alert setting. Set up an alert to on so you can receive the alert when the song is broadcast, or set it up to off to stop the alert for that song.

1. Touch MEMO EDIT.
The MyMix playlist is displayed.

2. Touch the song title that you want to set up the alert to off.
The check mark is removed, and the alert for that song is off.

Deleting the song from the MyMix playlist
You can delete each song in the MyMix playlist.

1. Touch MEMO EDIT.
The MyMix playlist is displayed.

2. Touch and hold the song title you want to delete.
That song will be deleted from the MyMix playlist.

- To delete all the songs in the MyMix playlist, touch DELETE ALL.

3. A message will appear asking you to confirm to delete it. Touch YES.

Displaying the Radio ID
Channel number select setting
If you select CH : 000, the ID code is displayed.

- Touch ◀ or ▶ to select CH : 000.

Channel category select setting
You can also display the Radio ID to select RADIO ID from channel category in the CATEGORY mode.

- Touch ▲ or ▼ to select RADIO ID from channel category.

- If you select another channel, display of the ID code is canceled.
- Display of the ID code repeats displaying RADIO ID and the ID code one after the other.
Listening to XM Satellite Radio

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

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

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

1. **Source name**
   Shows the selected source name.

2. **Source icon**
   Shows what the source has been selected.

3. **XM band indicator**
   Shows the XM band which has been selected.

4. **XM channel category**
   Shows the category of broadcast channel.

5. **XM preset number indicator**
   Shows what XM preset has been selected.

6. **XM channel select setting indicator**
   Shows what channel select setting has been selected. **ALL CH** is displayed when ALL CH is selected for the channel select mode, and **CATEGORY** is displayed when CATEGORY is selected for the channel select mode.
   - Refer to Switching the XM channel select mode on page 54.

7. **XM channel number indicator**
   Shows to which XM channel number the tuner is tuned.

8. **Preset list display**
   Shows the preset list.

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

2. **Touch the screen** to display the touch panel keys.

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

4. **Touch ◀ or ▶** to select a desired channel.
   The channels move up or down step by step. Channels that cannot currently be selected are skipped, and the next channel is selected.
   - If you touch and hold ◀ or ▶, you can increase or decrease the channel number continuously.
   - You can also select a channel by pressing ◀ or ▶ button.
   - You can also perform tuning from a desired channel category. (Refer to Selecting a channel in the channel category on the next page.)

**Notes**

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

- Touch DISP to switch the XM display.
  Each time you touch DISP changes the XM display in the following order:
  Channel name  Artist name/feature  Song/program title  Additional information  Channel number

Storing and recalling broadcast stations

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

- When you find a station that you want to store in memory touch and hold a preset tuning key P1 to P6 until the XM preset number stops flashing.
  The number you have touched will flash in the XM preset number indicator and then remain lit. The selected station has been stored in memory.
  The next time you touch the same preset tuning key P1 to P6 the station is recalled from memory.
  - When the touch panel keys are not displayed, you can display them by touching the screen.
  - When P1 to P6 are not displayed, you can display them by touching →.

Notes
- Up to 18 stations, six for each of three XM bands can be stored in memory.
- You can also use ▲ and ▼ to recall stations assigned to preset tuning keys P1 to P6.

Switching the XM channel select mode

You have two methods for selecting a channel: by number and by category. When selecting by number, channels in any category can be selected. Select by category to narrow your search down to only channels in a particular category.

- Touch MODE to select the desired channel select mode.
  Touch MODE repeatedly to switch between the following channel select modes:
  CH NUMBER (channel number select setting)
  CATEGORY (channel category select setting)

Selecting a channel in the channel category

1 Touch MODE to select the channel category select mode.
  CATEGORY appears on the information bar.
2 Touch ▲ or ▼ to select the desired channel category.
3 Touch ◀ or ► to select the desired channel in the selected channel category.

Selecting a channel directly

Refer to Selecting a channel directly on page 55.

Displaying the Radio ID

Refer to Displaying the Radio ID on page 56.
Listening to SIRIUS Satellite Radio

You can use this unit to control a SIRIUS Satellite Radio tuner, which is sold separately.

1. **Source name**  
   Shows the selected source name.

2. **Source icon**  
   Shows what the source has been selected.

3. **SIRIUS band indicator**  
   Shows the SIRIUS band which has been selected.

4. **SIRIUS preset number indicator**  
   Shows what SIRIUS preset has been selected.

5. **My mix song alert off indicator**  
   Shows when the MyMix function is off. Refer to Turning the MyMix function on or off on page 62.

6. **Game Alert off indicator**  
   Shows when the Game Alert is off. Refer to Switching the Game Alert on or off on page 63.

7. **SIRIUS channel select setting indicator**  
   Shows what channel select setting has been selected. **ALL CH** is displayed when **ALL CH** is selected for the channel select mode, and **CATEGORY** is displayed when **CATEGORY** is selected for the channel select mode.
   - Refer to Switching the XM channel select mode on page 54.

8. **SIRIUS channel number indicator**  
   Shows to which SIRIUS channel number the tuner is tuned.

9. **Category select keys/preset select keys**  
   Shows the category select keys when the channel select setting is **CATEGORY** or the preset select keys when the channel select setting is **ALL CH**.

10. **Detail information or preset list display**  
    Shows the detail information of the broadcast channel currently being received or the preset list.

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

2. Touch the screen to display the touch panel keys.

3. Touch BAND to select a band.  
   Touch BAND repeatedly until the desired SIRIUS band is displayed, SIRIUS1, SIRIUS2 or SIRIUS3.

4. Touch ‹ or › to select a desired channel.  
   The channels move up or down step by step. Channels that cannot currently be selected are skipped, and the next channel is selected.  
   - If you touch and hold ‹ or ‹, you can increase or decrease the channel number continuously.
You can also select a channel by pressing ▼ or ► button.
You can also perform tuning from a desired channel category. (Refer to Selecting the channel in the channel category on this page.)

Notes
- If you do not use the touch panel keys for 30 seconds, they will be hidden automatically.
- It may take a few seconds before you can hear anything while this unit acquires and processes the satellite signal.
- When you change the channel, the channel name is displayed, followed by the category name.

Selecting the SIRIUS channel select mode
You have two methods for selecting a channel: ALL CH mode and CATEGORY mode. When selecting ALL CH mode, channels in any category can be selected. Select CATEGORY mode to narrow your search down to only channels in a particular category.

- Touch MODE to select the desired channel select mode.
  Touch MODE repeatedly to switch between the two modes.
  ALL CH (all channel select mode)
  CATEGORY (channel category select mode)

Selecting a channel
Selecting the channel in the channel category
Channels are organized into various program categories, e.g. Rock, Classic, Jazz. You can specify channels by selecting the desired category.

1 Touch MODE to select the channel category select mode.
The category select keys appear.
2 Touch ▲ or ▼ to select the desired channel category.
3 Touch ◀ or ► to select the desired channel in the selected channel category.

Selecting a SIRIUS channel directly
You can select a SIRIUS channel directly by entering the desired channel number.

1 Touch DIRECT.
  CHANNEL INPUT appears in the display.
2 Touch 0 to 9 to input the desired channel number.
  To cancel the input numbers, touch C.
3 While the input number is displayed, touch ENTER.
The SIRIUS channel of entered number is selected.
  To return to the normal display, touch ESC.
Switching the display
Various information, including channel number, name and category, song/program title, artist/feature and composer, can be displayed for the selected channel.

- Touch DISP to switch information on the selected channel.
  Touch DISP repeatedly switch between the followings:
  Channel number  Channel name  Channel Category  Artist name/feature  Song/program title  Composer

Switching between the detail information display and preset list display
Only when SIR PNR2/SIR PNR2C is connected to this unit, you can operate this function.
You can switch the left side of the basic screen according to your preference.

- Touch LIST.
  Touch LIST repeatedly to switch between the followings:
  Detail information display  Preset list display  OFF

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

- Channels are stored and recalled on a broadcast station basis. This means that if the broadcast station you stored has been assigned to a different channel by SIRIUS, you can still recall the same broadcast station (though a different channel number may appear in the display).

1 Select the channel that you want to store in memory.

2 Touch LIST to display the preset list.
  - When the touch panel keys are not displayed, you can display them by touching the screen.

3 Touch and hold a preset tuning key P1 to P6 until the SIRIUS preset number stops flashing.
The number you have touched will flash in the SIRIUS preset number indicator and then remain lit. The selected station has been stored in memory.
The next time you touch the same preset tuning key P1 to P6 the station is recalled from memory.

Note
Up to 18 stations, six for each of three SIRIUS bands can be stored in memory.

Using the MyMix function
Only when SIR PNR2/SIR PNR2C is connected to this unit, you can operate this function.
The MyMix function allows you to make the MyMix song playlist. When the song in the MyMix playlist is being broadcast on a station other than the one you are listening to, you will be alerted, and you can tune to the station to listen to that song.

- A track itself is NOT downloaded BUT only the song title and the artist name are memorized.
**Making the MyMix playlist**

You can add a song that is being broadcast to the MyMix playlist. When it is added, the song title and its artist name is memorized to this unit. The MyMix function will start on the song that matches the song title and its artist name in the MyMix playlist.

- When a desired song is broadcast, touch and hold MEMO.
  The song title and artist name of the song you are listening to are memorized, and a confirmation message appears.
  - The song title and artist name of up to 10 tracks can be memorized. Trying to save more than 10 tracks will overwrite old ones.
  - You cannot memorize the song title or the artist name of the channel 000.
  - It is possible that the memorized title is not displayed correctly.

**When the song in the MyMix playlist is broadcast**

As soon as the memorized song starts broadcast on a different station, a song alert is displayed. Touch JUMP to switch to that station, and you can listen to that track.
- If you would rather not to tune to that station, touch STAY.
- If an alert for the song in the MyMix playlist is set up to off, no alert will be provided even when the song is broadcast. Refer to Setting up a song alert on this page.
- If there is slight difference between the memorized title and the title of the song being broadcast, no alert will be provided even though they are the same song.

**Turning the MyMix function on or off**

You can turn the MyMix function off and stop this unit to alert you for all the songs in the MyMix playlist. To restart, turn this function on.
- The MyMix function is on at the default setting.

1. Touch MEMO EDIT.
   The display is switched to the memo edit mode.

2. Touch ALERT OFF to turn the MyMix function off.
   The MyMix function is now off.
   - To turn the MyMix function on, touch ALERT ON.

3. To return to the normal display, touch ESC.

**Setting up a song alert**

You can set up an alert on or off by each song in the MyMix playlist. First, display the MyMix playlist and then change each alert setting. Set up an alert to on so you can receive the alert when the song is broadcast, or set it up to off to stop the alert for that song.

1. Touch MEMO EDIT.
   The display is switched to the memo edit mode.

2. Touch ◀ or ▶ to select the song title that you want to turn the alert off.

3. Touch ON/OFF to turn the alert off.
   ON is changed to OFF and the alert for the song is turned off.
Deleting the song from the MyMix playlist
You can delete each song in the MyMix playlist.

1 Touch MEMO EDIT.
The song title in the MyMix playlist is displayed.

2 Touch ◀ or ▶ to select the song title that you want to delete.

3 Touch DELETE.

4 A message will appear asking you to confirm to delete it. Touch OK.
The selected song is deleted.

Using the Game Alert function
Only when SIR PNR2/SIR PNR2C is connected to this unit, you can operate this function.
This system can alert you when games involving your favorite teams are about to start. To use this function you need in advance to set up a game alert for the teams.

Selecting teams for Game Alert

1 Touch TEAM SET.

2 Touch ◀ or ▶ on League to select a desired league.
League names are switched in the display.

3 Touch ◀ or ▶ on Team to select a desired team.
Teams in the selected category are switched in the display.

4 Touch ON/OFF to store the selected team in memory.
ON is displayed with the selected team, and the Game Alert function will start on that team.
- To turn the Game Alert off of the selected team, touch ON/OFF again.
- If you want to clear all the team selections, touch CLEAR ALL
- When you have already made 12 team selections, FULL is displayed and additional team selection is not possible. In this case, first turn one of the team selections off and then try again.

5 Repeat these steps for selecting other teams.
Up to 12 teams can be selected.

6 To return to the normal display, touch ESC.

Switching the Game Alert on or off
Once you made team selections, you need to turn the Game Alert function on.
- The Game Alert function is on at the default setting.

1 Touch TEAM SET.

2 Touch ALERT ON to turn the Game Alert on.
The Game Alert function is now on.
- To turn the Game Alert function off, touch ALERT OFF.

3 To return to the normal display, touch ESC.
SIRIUS Satellite Radio tuner

When the game of the selected team starts
When a game of the selected team is about to start (or is currently playing) on a different station, a game alert is displayed. Touch JUMP to switch to that station, and you can listen to that game.
- If you would rather not to tune to that station, touch STAY.

Displaying game information
If games of your selected teams are currently playing, you can display information of the games and tune to the broadcast channel.

1 Touch GAME INFO.
The game information of your selected team is displayed.

2 Touch ◀ or ► to select a game.
The game is displayed, followed by more detailed game information.
- Game score will be updated automatically.

3 Touch Tune To to switch to that station to listen to the game.
- To return to the normal display, touch ESC.

Notes
- If you have not made any team selections, NOT SET is displayed.
- When games involving your favorite teams are not currently playing, NO GAME is displayed.

Displaying the Radio ID
If you select CH000, the ID code is displayed.
- Touch ◀ or ► to select CH: 000.

Note
To select CH000, set the channel select setting to ALL CH. About the channel select setting, refer to Selecting the SIRIUS channel select mode on page 60.
Listening to songs on your iPod

1 Touch the source icon and then touch iPod to select the iPod.
   - When the iPod is not connected to this unit, you cannot select the iPod as a source.

2 Touch the screen to display the touch panel keys.

3 To skip back or forward to another song, touch \(\ll\) or \(\gg\). Touching \(\gg\) skips to the start of the next song. Touching \(\ll\) once skips to the start of the current song. Touching it again will skip to the previous song.
   - You can also skip back or forward to another song by pressing \(\ll\) or \(\gg\) button on the unit or moving the joystick on the remote control left or right.

4 To perform fast forward or reverse, keep touching \(\ll\) or \(\gg\).
   - You can also perform fast reverse/fast forward by pressing and holding \(\ll\) or \(\gg\) button on the unit or holding the joystick on the remote control left or right.

Note
If the iPod contains no songs that can be played back, NO SONGS is displayed.

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

1 Touch TOP to display the top menu.

2 Touch one of the categories in which you want to search for a song.
   - PLAYLISTS (playlists)
   - ARTISTS (artists)
• **ALBUMS** (albums)
• **SONGS** (songs)
• **GENRES** (genres)

3 Touch a list title that you want to play.
Repeat this operation until you find the desired song.
- You can start a playback of all the songs in the selected list (**GENRES, ARTISTS** or **ALBUMS**). To do this, touch **ALL**.
- To go to the next group of list titles, touch ↩️.
- To return to the previous group of list titles, touch ↩️.
- To return to the previous menu, touch ↩️.
- To go to the top menu of the list search, touch **TOP**.

**Note**
If the playback stops for any reason, touch **TOP** and refine your search for a song.

### Pausing a song
Pause lets you temporarily stop playback of a song.

- Touch ◀️/▶️ during playback.
  - **PAUSE** appears in the display.
  - To resume playback at the same point that you turned pause on, touch ◀️/▶️ again.

### Displaying text information on iPod
Text information recorded on the iPod can be displayed on the information bar.

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

- **Song Title** (song title)  **Artist Name** (artist name)  **Album Title** (album title)
  - If the characters recorded on the iPod are not compatible with a head unit, those characters will not be displayed.

**Note**
You can scroll the title to the left by keeping touching **DISP**.

### Displaying information on song
Song title, artist name, album title of the currently playing song can be displayed (if they have been entered in iPod) together with the index and the remaining playback time in the form of the status bar.

- Touch **FILE INFO** to display information on the song you are currently playing.
  Song information is displayed.
  - Status bar shows the remaining playback time. The bar is filled up from the left to the right as the playback time is consumed.

### Repeating play
You can repeat one song over and over.
- While this unit is set to repeat one song, you cannot select the other songs.

- Touch ◀️ to repeat one song.
  ◀️ appears on the information bar and the currently playing song repeats.
  - When you do not set to repeat one song, this unit repeats all songs in the currently selected list (e.g. **ARTISTS, ALBUMS**).
Playing songs in a random order (shuffle)

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

- **Touch** \(\text{셔플}\) to select the random play method.

  Touch \(\text{셔플}\) repeatedly until the desired random play method appears in the display.
  - **Song**  Play back songs in the selected list in random order.
  - **Album**  Play back songs from a randomly selected album in order.

- To cancel the random play, touch \(\text{셔플}\) repeatedly to turn the shuffle icon off.  

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**Playing songs on iPod**

**Section 15**

**Playing songs on iPod**
Listening to songs on BT Audio (Bluetooth audio player)

If you connect a Bluetooth adapter (e.g. CD BTB200) to this unit, you can control Bluetooth audio players via Bluetooth wireless technology.

- In some countries, CD BTB200 is not sold on the market.

For details concerning operation, refer to the Bluetooth adapter’s operation manual. This section provides brief information on Bluetooth audio player operations with this unit, which slightly differs or is abbreviated from that described in the Bluetooth adapter’s operation manual.

- Even though your audio player does not contain a Bluetooth module, you can still control it from this unit via Bluetooth wireless technology. To control your audio player using this unit, connect a product featuring Bluetooth wireless technology (available on the market) to your audio player and connect the Bluetooth adapter (e.g. CD BTB200) to this unit.

Important

- Depending on the Bluetooth audio player connected to this unit, the operations available with this unit are limited to the following two levels:
  
  Lower level: Only playing back songs on your audio player is possible.
  
  Higher level: Playing back, pausing, selecting songs, etc., are possible (all the operations illustrated in this manual).

- Since there are a number of Bluetooth audio players available on the market, operations with your Bluetooth audio player using this unit vary extensively. Refer to the instruction manual that came with your Bluetooth audio player as well as this manual while operating your player on this unit.

- Information about songs (e.g. the elapsed playing time, song title, song index, etc.) can not be displayed on this unit.

- While you are listening to songs on your Bluetooth audio player, refrain from using on your cellular phone as much as possible. If you use your cellular phone, the signal from your cellular phone may cause noise on the song playback.

- When you are talking on a cellular phone connected to this unit via Bluetooth wireless technology, song playback from your Bluetooth audio player connected to this unit is muted.

- Even if you are listening to a song on your Bluetooth audio player and you switch to another source, song playback continues.

1. Source name
   Shows the selected source name.

2. Source icon
   Shows which source has been selected.

3. Device name
   Shows the device name of the connected Bluetooth audio player (or Bluetooth adapter).

4. Connection indicator
   Shows the Bluetooth wireless connection status.

- Touch the source icon and then touch BT Audio to select the Bluetooth audio source.
Connecting a Bluetooth audio player

1. Touch AUDIO MENU to display MENU. MENU appears on the display.
   - You can also display MENU by clicking the joystick on the remote control.

2. Touch FUNCTION to display the function names.
   The function names are displayed and operable ones are highlighted.
   - To return to the previous display, touch BACK.
   - To return to the playback display, touch ESC.

3. Touch CONNECT OPEN to turn the connection open on.
   ON is displayed. This unit is now on standby for connection from Bluetooth audio player.
   If your Bluetooth audio player is set ready for Bluetooth wireless connection, connection to this unit is automatically established.

Note
Before you can use audio players you may need to enter the PIN code into this unit. If your player requires a PIN code to establish a connection, look for the code on the player or in its accompanying documentation. Refer to Entering PIN code for Bluetooth wireless connection on page 105.

Playing songs on a Bluetooth audio player

1. Touch ►.
   Playback starts.

2. To skip back or forward to another track, briefly touch ◀ or ▶.
   Touching ▶ skips to the start of the next track. Touching ◀ once skips to the start of the current track. Touching it again will skip to the previous track.
   - You can also skip back or forward to another track by pressing ◀ or ▶ button on the unit or moving the joystick on the remote control left or right.

3. To perform fast forward or reverse, keep touching ◀ or ▶.
   - You can also perform fast reverse/fast forward by pressing and holding ◀ or ▶ button on the unit or holding the joystick on the remote control left or right.

4. To pause the playback, touch II.
   Playback is paused.

Disconnecting a Bluetooth audio player

1. Touch AUDIO MENU to display MENU. MENU appears on the display.
   - You can also display MENU by clicking the joystick on the remote control.

2. Touch FUNCTION to display the function names.
   The function names are displayed and operable ones are highlighted.
   - To return to the previous display, touch BACK.
   - To return to the playback display, touch ESC.
3 Touch DISCONNECT and then touch ON. After the disconnection is completed, No Connection is displayed.

Displaying BD (Bluetooth Device) address

1 Touch AUDIO MENU to display MENU. MENU appears on the display.
   - You can also display MENU by clicking the joystick on the remote control.

2 Touch FUNCTION to display the function names.
The function names are displayed and operable ones are highlighted.
   - To return to the previous display, touch BACK.
   - To return to the playback display, touch ESC.

3 Touch DEVICE INFO to display the BD address.
Various information regarding the Bluetooth wireless technology are displayed.
   - DEVICE NAME (device name of this system)
   - BD ADDRESS (address of Bluetooth device)
   - SYSTEM VERSION (system version)
   - BT MODULE VERSION (version of Bluetooth module)
 manos libres con teléfonos celulares que cuentan con tecnología inalámbrica Bluetooth

Si utiliza un adaptador Bluetooth (p.ej. CD BTB200), puede conectar un teléfono celular que cuente con tecnología inalámbrica Bluetooth a este equipo para hacer llamadas manos libres sin interferir con su conducción.

- En algunos países, el CD BTB200 no se vende en el mercado.

Para obtener detalles sobre su funcionamiento, consulte el manual del adaptador Bluetooth. Esta sección proporciona información breve sobre las operaciones de manos libres en este equipo, que puede variar ligeramente o ser cortada respecto a lo descrito en el manual del adaptador Bluetooth.

**Importante**

Dado que este equipo está en modo de espera para conectar con su teléfono celular vía tecnología inalámbrica Bluetooth, el uso de este equipo sin arrancar el motor puede causar el descenso del nivel de la batería.

1. **Nombre de fuente**
   - Muestra el nombre de la fuente seleccionada.

2. **Icono de fuente**
   - Muestra la fuente seleccionada.

3. **Número de teléfono**
   - Muestra el número de teléfono seleccionado.

4. **Indicador de número de usuario**
   - Muestra el número de registro del teléfono celular.

5. **Nombre del dispositivo**
   - Muestra el nombre del dispositivo del teléfono celular.

6. **Indicador de notificación de llamada entrante**
   - Muestra cuando una llamada entrante ha sido recibida y no revisada aún.
   - *La notificación de llamada entrante no se muestra para las llamadas que se hacen cuando el teléfono celular está desconectado de este equipo.*

7. **Indicador de respuesta automática/Automático de rechazo**
   - Muestra cuando la función de respuesta automática está activa (para más detalles, consulte la página 79, **Configuración de la respuesta automática**).
   - Muestra cuando la función de rechazo automático está activa (para más detalles, consulte la página 79, **Configuración de rechazo automático**).

8. **Indicador de nivel de la batería**
   - Muestra el nivel de la batería del teléfono celular.
   - *El nivel mostrado en el indicador puede diferir del nivel real de la batería.*
   - *Si el nivel de la batería no está disponible, no se muestra el indicador de nivel de la batería.*

9. **Indicador de nivel de señal**
   - Muestra el nivel de señal del teléfono celular.
   - *El nivel mostrado en el indicador puede diferir del nivel real de la señal.*
   - *Dependiendo de los teléfonos celulares que cuenten con tecnología inalámbrica Bluetooth, la intensidad de radio no está disponible. En este caso, el indicador de nivel de señal no aparece.*

   - *Pulse el icono de fuente y luego pulse TEL para seleccionar el teléfono.*
Setting up for hands-free phoning

Before you can use the hands free phoning function you must set up the unit for use with your cellular phone. This entails establishing a Bluetooth wireless connection between this unit and your phone, registering your phone with this unit, and adjusting the volume level.

1 Connection
For detailed instructions on connecting your phone to this unit via Bluetooth wireless technology, refer to Connecting a cellular phone on the next page.
- Your phone should now be temporarily connected. However, to make best use of the technology, we recommend you register the phone to this unit.

2 Registration
To register your temporarily connected phone, refer to Registering a connected cellular phone on page 74.

3 Volume adjustment
Adjust the earpiece volume on your cellular phone for comfort. When adjusted, the volume level is recorded in this unit as the default setting.
- Caller’s voice volume and ring volume may vary depending on the type of cellular phone.
- If the difference between the ring volume and caller’s voice volume is big, overall volume level may become unstable.
- Before disconnecting the cellular phone from this unit, make sure to adjust the volume to a proper level. If the volume is muted (zero level) on your cellular phone, the volume level of your cellular phone remains muted even after the cellular phone is disconnected.

Basic operation of hands-free phoning

Important
Advanced operations that require your attention such as dialing numbers on the monitor, using phone book, etc., are prohibited while you are driving. When you need to use these advanced operations, stop your vehicle in a safe place.

Making a phone call
Voice recognition
1 Touch VOICE to turn the voice recognition function on.
Voice dial icon appears on the information bar. Voice recognition function is now ready.
- To cancel the voice recognition function, touch VOICE again.

2 Pronounce the name of your contact.

Taking a phone call
Answering an incoming call
1 When a call comes in, touch .
Touching switches between callers on hold.

2 To end the call, touch .
The estimated call time appears in the display (this may differ slightly from the actual call time).

Note
Equalizer curve for the phone source is fixed. When selecting the phone source, you cannot operate Using the equalizer on page 81.

Rejecting an incoming call
- When a call comes in, touch \[ \text{Hang up} \].
The call is rejected.

Answering a call waiting
1 Touch \[ \text{Hang up} \] to answer a call waiting.
2 Touch \[ \text{Hang up} \] to end all calls.
The estimated call time appears in the display (this may differ slightly from the actual call time).
- Touching \[ \text{Hang up} \] ends the call you are talking on.
Or with some cellular phones, touching \[ \text{Hang up} \] may end all calls including the calls on hold.

Rejecting call waiting
- Touch \[ \text{Hang up} \] to reject a call waiting.

Introduction of advanced hands-free phoning operation

1 Touch AUDIO MENU to display MENU.
MENU appears on the display.
- You can also display MENU by clicking the joystick on the remote control.

2 Touch FUNCTION to display the function names.
The function names are displayed and operable ones are highlighted.
- To go to the next group of function names, touch NEXT.
- To return to the previous group of function names, touch PREV.
- To return to the previous display, touch BACK.
- To return to the playback display, touch ESC.

Connecting a cellular phone
Searching for available cellular phones
1 Touch PHONE CONNECT on the function menu.
2 Touch to search for available cellular phones.
   While searching, Search flashes. When available cellular phones featuring Bluetooth wireless technology are found, device name or Name Not Found (if names cannot be obtained) is displayed.
   - If this unit fails to find any available cellular phones, Not Found is displayed.

3 Touch the device name you want to connect.
   While connecting, Connect flashes. To complete the connection, check the device name (Pioneer BT unit) and enter the link code on your cellular phone. If the connection is established, Connected is displayed.
   - PIN code is set to 0000 as the default. You can change this code in the initial setting. Refer to Entering PIN code for Bluetooth wireless connection on page 105.

Using a cellular phone to initiate a connection
1 Touch PHONE CONNECT on the function menu.

2 Touch CONNECT OPEN.
   The unit is now on standby for connection from cellular phone.

3 Use cellular phone to connect to this unit.
   - To cancel this function, touch CONNECT OPEN again.
   - PIN code is set to 0000 as the default. You can change this code in the initial setting. Refer to Entering PIN code for Bluetooth wireless connection on page 105.

Disconnecting a cellular phone
1 Touch PHONE CONNECT on the function menu.

2 Touch DISCONNECT to disconnect the currently connected cellular phone from this unit.
   After disconnection is completed, No Connection is displayed.

Registering a connected cellular phone
1 Touch PHONE REGISTER on the function menu.
   Registration assignments appear on the display. From the top to the third assignment are for User phone 1, 2 and 3. The rest two assignments are for Guest phone 1 and 2.

2 Touch and hold one of the registration assignments to register the currently connected phone.
   If the registration is succeeded, the device name of the connected phone is displayed in the selected assignment.
   - If the assignment is empty, No Data is displayed. If the assignment is already taken, the device name appears. To replace an assignment with a new phone, first delete the current assignment. For more detailed instructions, see Deleting a registered phone on this page.
   - If the registration failed, device name of the connected phone is not displayed in the selected assignment. In this case, return to step 1 and try again.

Deleting a registered phone
1 Touch PHONE REGISTER on the function menu.
2 Touch DELETE next to the device name you want to delete.
A confirmation display appears. Touch YES to delete the phone.
   ▪ To cancel, touch NO.

Connecting to a registered cellular phone

Connecting to a registered phone manually
1 Touch PHONE CONNECT on the function menu.

2 Touch DIRECT CONNECT.

3 Touch the device name you want to connect.
While connecting, Connect is flashing. If the connection is established, Connected is displayed.

Connecting to a registered phone automatically

▪ Touch AUTO CONNECT on the function menu to turn the Automatic Connection function on.
If your cellular phone is ready for Bluetooth wireless connection, connection to this unit is automatically established.
   ▪ To turn automatic connection off, touch AUTO CONNECT again.

Using the phone book
Transferring entries to the phone book
The Phone Book can hold a total of 500 entries. 300 from User 1, 150 from User 2, and 50 from User 3.

1 Touch PHONE BOOK TRANSFER on the function menu.

2 Touch START to turn the Phone Book Transfer function on.
The Phone Book Transfer is now on standby.

3 Use the cellular phone to perform phone book transfer.
Perform phone book transfer using the cellular phone. For detailed instructions, refer to the instruction manual that came with your cellular phone.
   ▪ The display indicates how many entries have been transferred and the total number to be transferred.
   ▪ To cancel the transferring process, touch STOP.

4 When you are done transferring Phone Book entries, touch ESC.

Note
When the phone book transfer is complete, the connection to your cellular phone is off. To use the Phone Book, connect to your cellular phone once again, referring to Connecting to a registered cellular phone on this page.
Changing the phone book display order

- Touch PHONE BOOK NAME VIEW on the function menu to turn Phone Book Name View function on. Display order for the Phone Book is changed.
- To change to the other display order, touch PHONE BOOK NAME VIEW again.

Calling a number in the phone book

Important
Be sure to park your vehicle and apply the parking brake when performing this operation.

1 On the normal display, touch PHONE BOOK to display the Phone Book.

2 Touch ▲ or ▼ to select the first letter of the name you are looking for. Touching ▲ or ▼ changes alphabetical letters.

3 Touch ENTER to show entries starting with the letter you chose. The display shows the first six Phone Book entries starting with that letter (e.g. “Ben”, “Brian” and “Burt” when “B” is selected).
- Touch 123 or ABC to display other phone book entries.
- To refine the search with a different letter, touch CLEAR.

4 Touch a Phone Book entry you want to call. The display is switched to the Phone Book detail display.

5 Touch phone number of the Phone Book entry you want to call. If several phone numbers are entered to an entry, touch one you want to call.

The display returns to the normal display and the Phone Book entry you selected is displayed on the information bar.
- If you do not want to call the selected phone number but remove it from the information bar, touch PHONE BOOK and then touch ESC.

6 Touch ✈ to make a call.
- For an international call, touch add “+” to add + to the phone number.

7 To end the call, touch ✖. The estimated call time appears in the display (this may differ slightly from the actual call time).

Editing the name of a Phone Book entry

Important
Be sure to park your vehicle and apply the parking brake when performing this operation.

1 On the normal display, touch PHONE BOOK to display the Phone Book.

2 Select a Phone Book entry you want to edit. See step two to four on Calling a number in the phone book on this page for how to do this.

3 Touch EDIT next to the Phone Book entry name. The display is changed to the Phone Book edit display.

4 Touch 123 or ABC to select the desired character type. Select ABC to input alphabet. Select 123 to input numbers and symbols.
- Each time you touch ABC, the alphabet type changes among upper case, lower case and symbol.
5 Touch ▲ or ▼ to select an alphabet letter or number/symbol.

6 Touch ► to move the cursor to the next character position and edit the name. When the letter you want is displayed, touch ► to move the cursor to the next position and then select the next letter. Touch ◀ to move backwards in the display.

7 Touch OK to store the new name.

**Editing phone numbers**

⚠️ Important

Be sure to park your vehicle and apply the parking brake when performing this operation.

1 On the normal display, touch PHONE BOOK to display the Phone Book.

2 Select a Phone Book entry you want to edit.

See step two to four on Calling a number in the phone book on the previous page for how to do this.

3 Touch EDIT next to the phone number you want to edit.

The display is changed to the Phone Book dial edit display.

4 Touch 0 to 9 to input numbers.

▪ Touch CLEAR to delete the number. Touch and hold CLEAR to delete all the input numbers.

5 Touch ◀ or ► to move the cursor and edit the number.

Repeat these steps until you have finished changing.

6 Touch OK to store the new number.

**Clearing a phone book entry**

⚠️ Important

Be sure to park your vehicle and apply the parking brake when performing this operation.

1 On the normal display, touch PHONE BOOK to display the Phone Book.

2 Select a Phone Book entry you want to delete.

See step two to four on Calling a number in the phone book on the previous page for how to do this.

3 Touch DELETE to delete the Phone Book entry.

A confirmation display appears. Touch YES to delete the entry.

▪ To cancel, touch NO.

**Using the call history**

⚠️ Important

Be sure to park your vehicle and apply the parking brake when performing this operation.

The 12 most recent calls made (dialled), received and missed, are stored in the call history. You can browse the call history and call numbers from it.

1 On the normal display, touch LOG to display the Call History.

Touching LOG repeatedly switches between the following call histories:

- MISSED CALL LIST
- DIALLED CALL LIST
- RECEIVED CALL LIST

▪ Touching DISP here switches between the phone number and the caller’s name (if it is in the Phone Book).
2 Touch a phone number or name (if entered) you want to call.
The display returns to the normal display and the phone number you selected is displayed on the information bar.

3 Touch to make a call.

Using preset numbers

Important
Be sure to park your vehicle and apply the parking brake when performing this operation.

Assigning preset numbers
Numbers that you dial frequently can be assigned to presets for quick recall.
You can assign up to 6 frequently called phone numbers to number presets.

1 Select a desired phone number from the phone book or the call history. Or directly enter a desired phone number.
To select a desired phone number from the Phone Book or the Call History, see the instructions explained in previous pages. To directly enter a desired phone number, see Making a call by entering phone number on this page.
The display should now be the normal display and the selected phone number is displayed on the information bar.

2 On the normal display, touch LIST to display preset assignments.
Preset assignments appear in the display (if not displayed yet).

3 Keep touching one of preset assignments to store the phone number.
The phone number you selected is stored in presets.
- No Data is displayed for empty assignment.
Even if the assignment is taken, you can replace it to the new one by keeping touching the assignment.

Recalling preset numbers

1 On the normal display, touch LIST to display preset assignments.
Preset assignments appear in the display (if not displayed yet).

2 Touch one of preset assignments.
The selected phone number should now be displayed on the information bar.

3 Touch to make a call.

4 To end the call, touch .
The estimated call time appears in the display (this may differ slightly from the actual call time).

Making a call by entering phone number

Important
Be sure to park your vehicle and apply the parking brake when performing this operation.

1 On the normal display, touch DIRECT to display the direct dial display.

2 Touch 0 to 9 to input numbers.
- Touch CLEAR to delete the number. Touch and hold CLEAR to delete all the input numbers.
- Up to 24 digits can be entered.
Bluetooth Telephone

- If you want to store the entered phone number to preset assignment, touch SET here. The display returns to the normal display and the phone number you entered is selected.

3 When you completed entering the number, touch to make a call.

4 To end the call, touch . The estimated call time appears in the display (this may differ slightly from the actual call time).

Clearing memory

1 Touch CLEAR MEMORY on the function menu.

2 Touch CLEAR next to the item you want to delete from the memory. Select from the following:
   - PHONE BOOK (phone book)
   - DIALED CALLS (dialled call history)
   - RECEIVED CALLS (received call history)
   - MISSED CALLS (missed call history)
   - PRESET DIALS (preset phone numbers)

   After selecting a desired item, a confirmation display appears. Touch YES to delete the memory.
   - To cancel, touch NO.
   - Touch All CLEAR to clear the memory of all items.

Setting automatic answering

- Touch AUTO ANSWER on the function menu to turn the automatic answer on. ON appears in the display.
- To turn the automatic answer off, touch AUTO ANSWER again.

Setting automatic rejecting

- Touch REFUSE ALL CALLS on the function menu to turn the automatic call rejection on. ON appears in the display.
- To turn the automatic call rejection off, touch REFUSE ALL CALLS again.

Switching the ring tone

- Touch RING TONE on the function menu to turn the ring tone on. ON appears in the display.
- To turn the ring tone off, touch RING TONE again.

Echo canceling and noise reduction

- Touch ECHO CANCEL on the function menu to turn Echo Cancel function on. ON appears in the display.
- To turn echo canceling off, touch ECHO CANCEL again.

Displaying BD (Bluetooth Device) address

- Touch Device info on the function menu to display the BD address. Various information regarding the Bluetooth wireless technology are displayed.
   - DEVICE NAME (device name of this system)
   - BD ADDRESS (address of Bluetooth device)
   - SYSTEM VERSION (version of this unit’s microprocessor)
   - BT MODULE VERSION (version of Bluetooth module)
Introduction of audio adjustments

Audio display
Shows the audio function names.

Important
If the multi channel processor (DEQ P8000) is connected to this unit, the audio function will be changed to the multi channel processor’s audio menu. For details, refer to Introduction of DSP adjustments on page 85.

1 Touch AUDIO MENU to display MENU. MENU appears on the display.
   ▪ You can also display MENU by clicking the joystick on the remote control.

2 Touch AUDIO to display the audio function names.
The audio function names are displayed and operable ones are highlighted.
   ▪ To go to the next group of function names, touch NEXT.
   ▪ To return to the previous group of function names, touch PREV.
   ▪ Only when the PREOUT setting in the initial menu is FULL, NON FADING will be displayed instead of SUB WOOFER. (Refer to Setting the rear output and subwoofer controller on page 103.)
   ▪ When selecting FM as the source, you cannot switch to SLA.
   ▪ To return to the previous display, touch BACK.

To return to the display of each source, touch ESC.

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

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

1 Touch FADER BALANCE on the audio function menu.
   ▪ When the rear output setting is SUB. W, BALANCE will be displayed instead of FADER BALANCE. Refer to Setting the rear output and subwoofer controller on page 103.

2 Touch ▲ or ▼ to adjust front/rear speaker balance.
Each time you touch ▲ or ▼ it moves the front/rear speaker balance towards the front or the rear.
FRONT:15 to REAR:15 is displayed as the front/rear speaker balance moves from front to rear.
   ▪ FR:00 is the proper setting when only two speakers are used.
   ▪ When the rear output setting is SUB. W, you cannot adjust front/rear speaker balance. Refer to Setting the rear output and subwoofer controller on page 103.

3 Touch ◀ or ▶ to adjust left/right speaker balance.
Each time you touch ◀ or ▶ it moves the left/right speaker balance towards the left or the right.
LEFT:09 to RIGHT:09 is displayed as the left/right speaker balance moves from left to right.
Using the equalizer
The equalizer lets you adjust the equalization to match the car’s interior acoustic characteristics as desired.

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

<table>
<thead>
<tr>
<th>Display</th>
<th>Equalizer curve</th>
</tr>
</thead>
<tbody>
<tr>
<td>Powerful</td>
<td>Powerful</td>
</tr>
<tr>
<td>Natural</td>
<td>Natural</td>
</tr>
<tr>
<td>Vocal</td>
<td>Vocal</td>
</tr>
<tr>
<td>Custom</td>
<td>Custom</td>
</tr>
<tr>
<td>Flat</td>
<td>Flat</td>
</tr>
<tr>
<td>Super Bass</td>
<td>Super bass</td>
</tr>
</tbody>
</table>

- **Custom** is an adjusted equalizer curve that you create.
- A separate **Custom** curve can be created for each source. If you make adjustments, the equalizer curve settings are memorized in **Custom**.
- When **Flat** is selected, no supplement or correction is made to the sound. This is useful to check the effect of the equalizer curves by switching alternatively between **Flat** and a set equalizer curve.

- On any source, touch EQ (displayed at the left bottom corner) to select the equalizer.
  Touch EQ repeatedly to switch between the following equalizers:
  **Powerful**  **Natural**  **Vocal**  **Custom**  **Flat**  **Super Bass**

Adjusting equalizer curves
You can adjust the currently selected equalizer curve setting as desired. Adjusted equalizer curve settings are memorized in **Custom**.
- You can adjust the center frequency and the Q factor (curve characteristics) of each currently selected curve band (LOW/MID/HIGH).

1. Touch **EQ MENU** on the audio function menu.

2. Touch ◀ or ▶ on the BAND setting to select the equalizer band to adjust.
   Each time you touch ◀ or ▶ selects equalizer bands in the following order:
   **LOW** (low)  **MID** (mid)  **HIGH** (high)

3. Touch ◀ or ▶ on the LEVEL setting to adjust the level of the equalizer band.
   Each time you touch ◀ or ▶ increases or decreases the level of the equalization band.
   +6 to –6 is displayed as the level is increased or decreased.

4. Touch ◀ or ▶ on the FREQUENCY setting to select the desired frequency.
   Touch ◀ or ▶ until the desired frequency appears in the display.
   Low: 40HZ  80HZ  100HZ  160HZ  
   Mid: 200HZ  500HZ  1KHZ  2KHZ  
   High: 3KHZ  8KHZ  10kHZ  12KHZ

5. Touch ◀ or ▶ on the Q.FACTOR setting to select the desired Q factor.
   Touch ◀ or ▶ until the desired Q factor appears in the display.
   2N  1N  1W  2W
### Adjusting loudness
Loudness compensates for deficiencies in the low- and high sound ranges at low volume.

1. Touch LOUDNESS on the audio function menu.
2. Touch < on the LOUDNESS setting to turn loudness on.
   - To turn loudness off, touch >.
3. Touch < or > on the MODE setting to select a desired level.
   Each time you touch < or > selects level in the following order:
   - LOW (low)
   - MID (mid)
   - HIGH (high)

### Using subwoofer output
This unit is equipped with a subwoofer output which can be turned on or off.
- When the subwoofer output is on, you can adjust the cut-off frequency and the output level of the subwoofer.

1. Touch SUB WOOFER on the audio function menu.
   - When the PREOUT setting in the initial menu is only FULL, you cannot select SUB WOOFER.
2. Touch < on the SUBWOOFER setting to turn subwoofer output on.
   - To turn subwoofer output off, touch >.
3. Touch < or > on the PHASE setting to select the phase of subwoofer output.
   - Touch > to select normal phase and NORMAL appears in the display.
   - Touch < to select reverse phase and REVERSE appears in the display.
4. Touch < or > on the LEVEL setting to adjust the output level of the subwoofer.
   Each time you touch < or > increases or decreases the level of the subwoofer. +6 to –6 is displayed as the level is increased or decreased.
5. Touch < or > on the FREQUENCY setting to select cut-off frequency.
   Each time you touch < or > selects cut-off frequencies in the following order:
   - 50Hz
   - 80Hz
   - 125Hz
   Only frequencies lower than those in the selected range are outputted from the subwoofer.

### Using nonfading output
When the nonfading output setting is on, the audio signal does not pass through this unit’s low pass filter (for the subwoofer), but is outputted through the RCA output.

1. Touch NON FADING on the audio function menu.
   - When the PREOUT setting in the initial menu is only FULL, you can select NON FADING. (Refer to page 103.)
2. Touch < on the NON FADING setting to turn non fading output on.
   - To turn non fading output off, touch >.
3. Touch < or > on the LEVEL setting to adjust the output level of the non fading.
   Each time you touch < or > increases or decreases the level of the non fading. +6 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 output from the front or rear speakers.

1. Touch HPF on the audio function menu.
2. Touch ◀ to turn high pass filter on. High pass filter is turned on and the cut off frequency setting becomes available.
   - To turn high pass filter off, touch ▶.
3. Touch ◀ or ▶ to select cut-off frequency.
   Each time you touch ◀ or ▶ selects cut off frequencies in the following order:
   50Hz  80Hz  125Hz

**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. Touch SLA on the audio function menu.
3. Touch ▲ or ▼ to adjust the source volume.
   Each time you touch ▲ or ▼ it increases or decreases the source volume.
   +4 to –4 is displayed as the source volume is increased or decreased.

**Notes**

- The AM volume level can also be adjusted with source level adjustments.
- Video CD, CD and compressed audio are set to the same source level adjustment volume automatically.
- AUX (auxiliary input) and AV (AV input) are set to the same source level adjustment volume automatically.
- SLA function does not adjust the volume for the BT telephone source.

**Staging for car environment**

You can create in car a sound environment that can be best matched with the type of your listening music (or movie).

1. Touch STAGING on the audio function menu.
2. Touch a desired staging field.
   - OFF (off)
   - MUSIC STUDIO (music studio)
   - DYNAMIC THEATER (dynamic theater)
   - ACTOR’S STAGE (actor’s stage)
   - RELAX LIVING (relaxing living room)
Selecting the listening position

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. Selecting the listening position lets you automatically adjust the speaker output levels and inserts a delay time to match the number and position of occupied seats. When used with the staging function, the sound image will be more natural and you can feel as if a panoramic sound envelops you.

1 Touch POSITION on the staging menu.

2 Touch one of the listening positions where you want to focus the sound image.
   - LEFT (left)
   - CENTER (center)
   - RIGHT (right)

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.
Introduction of DSP adjustments

You can use this unit to control multi channel processor (e.g. DEQ P8000), 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

DSP display

Shows the DSP function names.

1 Touch AUDIO MENU to display MENU. MENU appears on the display.

2 Touch DSP to display the DSP function names.
The DSP function names are displayed and operable ones are highlighted.

- To go to the next group of function names, touch NEXT.
- To return to the previous group of function names, touch PREV.
- When playing discs recorded with more than 96 kHz sampling frequency, you cannot use audio functions. Also, equalizer curve setting, POSITION, AUTO EQ and AUTO TA will be cancelled.
- When playing discs recorded with more than 96 kHz sampling frequency, audio is outputted from front speakers only.
- When selecting FM as the source, you cannot switch to SLA.
- When playing other than the DVD disc, you cannot switch to D.R.C.
- When neither FRONT-L nor FRONT-R is selected in POSITION, you cannot switch to TIME ALIGNMENT.
- When both the center speaker and the rear speaker are set to OFF in the speaker setting, you cannot switch to DOLBY PRO LOGIC II.
- To return to the previous display, touch BACK.
- To return to the display of each source, touch ESC.

Note

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

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 insert a delay time to match the number and position of occupied seats.
1 Touch POSITION on the DSP function menu.

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

<table>
<thead>
<tr>
<th>Key</th>
<th>Display</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>◀</td>
<td>FRONT-L</td>
<td>Front seat left</td>
</tr>
<tr>
<td>▶</td>
<td>FRONT-R</td>
<td>Front seat right</td>
</tr>
<tr>
<td>▲</td>
<td>FRONT</td>
<td>Front seats</td>
</tr>
<tr>
<td>▼</td>
<td>ALL</td>
<td>All seats</td>
</tr>
</tbody>
</table>

- To cancel the selected listening position, touch the same key 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 balance adjustment**

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

1 Touch FADER/BALANCE on the DSP function menu.

2 Touch ▲ or ▼ to adjust front/rear speaker balance. Each time you touch ▲ or ▼ it moves the front/rear speaker balance towards the front or the rear.

**FRONT:25** to **REAR:25** is displayed as the front/rear speaker balance moves from front to rear.

- **FR:00** is the proper setting when only two speakers are used.

3 Touch ◀ or ▶ to adjust left/right speaker balance. Each time you touch ◀ or ▶ it moves the left/right speaker balance towards the left or the right.

**LEFT:25** to **RIGHT:25** is displayed as the left/right speaker balance moves from left to right.

---

**Adjusting source levels**

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

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

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

2 Touch SLA on the DSP function menu.

3 Touch ▲ or ▼ to adjust the source volume. Each time you touch ▲ or ▼ it increases or decreases the source volume.

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

**Notes**

- The AM volume level can also be adjusted with source level adjustments.
- Video CD, CD and compressed audio are set to the same source level adjustment volume automatically.
• External unit 1 and external unit 2 are set to the same source level adjustment volume automatically.
• AUX (auxiliary input) and AV (AV input) are set to the same source level adjustment volume automatically.

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.
• When playing other than the DVD disc, you cannot switch to D.R.C.

1 Touch D.R.C on the DSP function menu.
• When playing other than the DVD disc, you cannot switch this mode.

2 Touch ON to turn the dynamic range control on.
• To turn dynamic range control off, touch OFF.

Using the down-mix function
Only when the multi channel processor (e.g., DEQ P8000) is connected to this unit, you can operate this function.
The down mix function allows you to play back multi channel audio in 2 channels.

1 Touch DOWN MIX on the DSP function menu.

2 Touch or to select the desired level.
Touch to select Lo/Ro. Touch to select Lt/Rt.
• Lo/Ro  Stereo mix the original audio that do not contain channel modes such as surround components.
• Lt/Rt  Down mix so that the surround components can be restored (decoded).

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.

1 Touch DIGITAL DIRECT on the DSP function menu.

2 Touch ON to turn the direct control on.
• To turn direct control off, touch OFF.

Using the Dolby Pro Logic II
Only when the multi channel processor (e.g., DEQ P8000) is connected to this unit, you can operate this function.
Dolby Pro Logic II creates five full bandwidth output channels from two channel sources to achieve high purity matrix surround.
• Dolby Pro Logic II supports up to 48kHz sampling rate stereo source and has no effect on other types of source.

1 Touch DOLBY PRO LOGIC II on the DSP function menu.

2 Touch any of the following touch panel keys to select the desired mode.
• MOVIE  The Movie mode suitable for movie playback
• **MUSIC**  The Music mode suitable for music playback
• **MATRIX**  The Matrix mode for when FM radio reception is weak
• **OFF**  Turn Dolby Pro Logic II off
• **ADJUST**  Adjust the Music mode

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

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

- Panorama (**PANORAMA**) extends the front stereo image to include the surround speakers for an exciting “wraparound” effect.
- Dimension (**DIMENSION**) allows you to gradually adjust the sound field either towards the front or the rear.
- Center Width Control (**CENTER WIDTH**) 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. Touch **DOLBY PRO LOGIC II** on the DSP function menu.

2. Touch **MUSIC** and then touch **ADJUST**.
   - You can operate **ADJUST** only when **MUSIC** has been selected.

3. Touch ▲ or ▼ to select **PANORAMA** (panorama).
   - Each time you touch ▲ or ▼ it selects the item in the following order: **PANORAMA** (panorama)  **DIMENSION** (dimension)  **CENTER WIDTH** (center width)

4. Touch ◄ to turn the panorama control on.
   - To turn the panorama control off, touch ►.

5. Touch ▼ to select **DIMENSION** and then touch ◄ or ► to adjust front/surround speaker balance.
   - Each time you touch ◄ 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.

6. Touch ▼ to select **CENTER WIDTH** and then touch ◄ or ► to adjust the center image.
   - Each time you touch ◄ 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.

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

- When **DIGITAL DIRECT** is on, you cannot select **SPEAKER SETTING**. First turn the **DIGITAL DIRECT** off, referring to Using the direct control on the previous page.
- Low frequency range is not output if the subwoofer is set to **OFF** and the front and rear speakers set to **SMALL** or **OFF**.
- It is imperative that non installed speakers be set to **OFF**.
- Set the front or rear speaker to **LARGE** if the speaker is capable of reproducing bass content, or if no subwoofer is installed.
1 Touch SPEAKER SETTING on the DSP function menu.

2 Touch ◀ or ▶ to select the speaker to be adjusted.
   Each time you touch ◀ or ▶ selects the speaker in the following order:
   FRONT (front speakers)  CENTER (center speaker)  REAR (rear speakers)
   SUB WOOFER (subwoofer)  PHASE (subwoofer setting)
   - You can switch to PHASE only when the subwoofer has been set to ON.

3 Touch ◀ or ▶ to select the correct size for the selected speaker.
   Each time you touch ◀ or ▶ selects the size in the following order:

<table>
<thead>
<tr>
<th>Speaker</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRONT</td>
<td>SMALL</td>
</tr>
<tr>
<td></td>
<td>LARGE</td>
</tr>
<tr>
<td>CENTER</td>
<td>OFF</td>
</tr>
<tr>
<td></td>
<td>SMALL</td>
</tr>
<tr>
<td></td>
<td>LARGE</td>
</tr>
<tr>
<td>REAR</td>
<td>OFF</td>
</tr>
<tr>
<td></td>
<td>SMALL</td>
</tr>
<tr>
<td></td>
<td>LARGE</td>
</tr>
<tr>
<td>SUB WOOFER</td>
<td>ON</td>
</tr>
<tr>
<td></td>
<td>OFF</td>
</tr>
<tr>
<td>PHASE</td>
<td>REVERSE</td>
</tr>
<tr>
<td></td>
<td>NORMAL</td>
</tr>
</tbody>
</table>

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

1 Touch SPEAKER SETTING on the DSP function menu.

2 Touch ◀ or ▶ to select SUB WOOFER.
   Each time you touch ◀ or ▶ selects the speaker in the following order:

3 Touch ◀ to turn subwoofer output on.
   - To turn subwoofer output off, touch ▶.

4 Touch ▶ to select PHASE and then touch ◀ or ▶ to select the phase of subwoofer output.
   Touch ▶ to select NORMAL (normal phase).
   Touch ◀ to select REVERSE (reverse phase).

Note
When playing a 2 channel mono source with Pro Logic turned on, there may be occasions when the following will occur:
- No audio is outputted if the center speaker setting is SMALL or LARGE and no center speaker is installed.
- Audio is heard only over the center speaker if installed and the center speaker setting is SMALL or LARGE.

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 Touch SPEAKER LEVEL on the DSP function menu.

2 Touch ◀ or ▶ to select the speaker to be adjusted.
   Each time you touch ◀ or ▶ selects the speaker in the following order:
FRONT-L (front speaker left) CENTER (center speaker) FRONT-R (front speaker right) REAR-R (rear speaker right) REAR-L (rear speaker left) SUB WOOFER (subwoofer)

You cannot select speakers whose size is set to OFF at the SPEAKER SETTING menu.

3 Touch ‹ or › to adjust the speaker output level.
Each time you touch ‹ or › increases or decreases the speaker output level. +10 to –10 is displayed as the level is increased or decreased.

Note
To adjust the speaker output levels in this mode is the same as making the speaker output levels at TEST TONE. Both provide the same results.

Selecting a cross-over frequency
You can select a frequency, under which sounds are reproduced through the subwoofer. If the installed speakers include one whose size has been set to SMALL, you can select a frequency, under which sounds are reproduced through a LARGE speaker or subwoofer.

1 Touch CROSS OVER on the DSP function menu.
2 Touch ‹ or › to select the speaker to be adjusted.
Each time you touch ‹ or › selects the speaker in the following order:
FRONT (front speakers) CENTER (center speaker) REAR (rear speakers) SUB WOOFER (subwoofer)

3 Touch ‹ or › to select cross-over frequency.
Each time you touch ‹ or › selects cut off frequencies in the following order:
63 80 100 125 160 200

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

Adjusting the speaker output levels using a test tone
This function allows you to easily get the overall balance right among the speakers.

1 Touch TEST TONE on the DSP function menu.
2 Touch START to start the test tone output.
The test tone is outputted. It rotates from speaker to speaker in the following sequence at intervals of about two seconds. The current settings for the speaker over which you hear the test tone are shown in the display.
FRONT-L (front speaker left) CENTER (center speaker) FRONT-R (front speaker right) REAR-R (rear speaker right) REAR-L (rear speaker left) SUB WOOFER (subwoofer)
Check each speaker output level. If no adjustments are needed, perform step 5 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 88.)
Digital Signal Processor

3 Touch ◀ or ▶ to adjust the speaker output level.
Each time you touch ◀ 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 Touch STOP to stop the test tone output.

Notes
- If needed, select speakers and adjust their ‘ab solute’ output levels. (Refer to Adjusting the speaker output levels on page 89.)
- To adjust the speaker output levels in this mode is the same as making the speaker output levels at SPEAKER LEVEL. Both provide the same results. ●

Using the time alignment
Only when the multi channel processor (e.g., DEQ P8000) is connected to this unit, you can operate this function.
The time alignment lets you adjust the distance between each speaker and the listening position.

1 Touch TIME ALIGNMENT on the DSP function menu.

2 Touch any of the following touch panel keys to select the time alignment.
- INITIAL Initial time alignment (factory setting)
- AUTO TA Time alignment created by auto TA and EQ. (Refer to Auto TA and EQ (auto time alignment and auto equalizing) on page 94.)
- CUSTOM Adjusted time alignment that you can create for yourself
- OFF Turn the time alignment off
- ADJUST Adjust the time alignment as desired
- You cannot select AUTO TA if auto TA and EQ has not been carried out.
- You cannot select ADJUST when neither FRONT-L nor FRONT-R is selected in POSITION.

Adjusting the time alignment
You can adjust the distance between each speaker and the selected position.
- An adjusted time alignment is memorized in CUSTOM.

1 Touch TIME ALIGNMENT on the DSP function menu and then touch ADJUST.
- You cannot select ADJUST when neither FRONT-L nor FRONT-R is selected in POSITION.

2 Touch ◀ or ▶ to select the speaker to be adjusted.
Each time you touch ◀ or ▶ selects the speaker in the following order:
FRONT-L (front speaker left) CENTER (center speaker) FRONT-R (front speaker right) REAR-R (rear speaker right) REAR-L (rear speaker left) SUB WOOFER (subwoofer)
- You cannot select speakers whose size is set at OFF. (Refer to Setting the speaker setting on page 88.)

3 Touch ◀ or ▶ to adjust the distance between the selected speaker and the listening position.
Each time you touch ◀ or ▶ increases or decreases the distance. 0.0 to 200.0 [inches] is displayed as the distance is increased or decreased.

4 Touch ESC to return to the playback display. ●
Using the equalizer

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

Recalling equalizer curves

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

<table>
<thead>
<tr>
<th>Display</th>
<th>Equalizer curve</th>
</tr>
</thead>
<tbody>
<tr>
<td>Powerful</td>
<td>Powerful</td>
</tr>
<tr>
<td>Natural</td>
<td>Natural</td>
</tr>
<tr>
<td>Vocal</td>
<td>Vocal</td>
</tr>
<tr>
<td>Flat</td>
<td>Flat</td>
</tr>
<tr>
<td>Custom1</td>
<td>Custom 1</td>
</tr>
<tr>
<td>Custom2</td>
<td>Custom 2</td>
</tr>
<tr>
<td>Super Bass</td>
<td>Super bass</td>
</tr>
</tbody>
</table>

- Custom1 and Custom2 are adjusted equalizer curves.
- When Flat is selected, no supplement or correction is made to the sound. This is useful to check the effect of the equalizer curves by switching alternatively between Flat and a set equalizer curve.

- On the normal display, touch EQ to select the equalizer.

Touch EQ repeatedly to switch between the following equalizers:

Powerful    Natural    Vocal    Flat    Custom1    Custom2    Super Bass

- If SFC instead of EQ appears on the normal display, touch SFC and hold to switch to equalizer function. About SFC, refer to Using the sound field control on this page.

Using the sound field control

The SFC function creates the sensation of a live performance.

- One of the greatest advantages to hear music in live is the original acoustic sound that is echoed or reflected against the stage surroundings. The SFC circuitry enables to reproduce the live performing sound in car environment by programming the direct sound, early reflections, and late reflections effects and characterizing the sound from CD, DVD or other medium so it becomes closer to the live acoustic sound.

1. On the normal display, touch EQ and hold to switch to SFC function.

Touch EQ and hold until Sound Field Control appears in the display.

- To switch to equalizer function, touch EQ and hold again.

2. Touch SFC to select the desired SFC mode.

Touch SFC 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.
Adjusting 3-band parametric equalizer

For Custom1 and Custom2 equalizer curves, you can adjust the front, rear and center equalizer curves separately by selecting a center frequency, an equalizer level and a Q factor for each band.

- A separate Custom1 curve can be created for each source.
- A Custom2 curve can be created common to all sources.
- 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.

- Touch PARAMETRIC EQ on the DSP function menu.

**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.

Speaker select

1. Touch \(<\) or \(>\) to select SP-SEL.
   Each time you touch \(<\) or \(>\) selects the item in the following order:
   - SP-SEL (speakers) → BAND (bands) → FREQUENCY (center frequency) → LEVEL (equalizer level) → Q. FACTOR (Q factor)

2. Touch \(<\) or \(>\) to select the speaker to be adjusted.
   Touch \(<\) or \(>\) until the desired speaker appears in the display.
   - REAR (rear speakers) → CENTER (center speaker) → FRONT (front speakers)
   - You cannot select speakers whose size is set at OFF. (Refer to Setting the speaker setting on page 88.)

Band

1. Touch \(<\) or \(>\) to select BAND.
   Each time you touch \(<\) or \(>\) selects the item in the following order:
   - SP-SEL (speakers) → BAND (bands) → FREQUENCY (center frequency) → LEVEL (equalizer level) → Q. FACTOR (Q factor)

2. Touch \(<\) or \(>\) to select the equalizer band to be adjusted.
   Each time you touch \(<\) or \(>\) selects equalizer bands in the following order:
   - LOW (low) → MID (mid) → HIGH (high)

Frequency

1. Touch \(<\) or \(>\) to select FREQUENCY.
   Each time you touch \(<\) or \(>\) selects the item in the following order:
   - SP-SEL (speakers) → BAND (bands) → FREQUENCY (center frequency) → LEVEL (equalizer level) → Q. FACTOR (Q factor)

2. Touch \(<\) or \(>\) to select the center frequency of selected band.
   Touch \(<\) or \(>\) until the desired frequency appears in the display.
   - 40Hz 50Hz 63Hz 80Hz 100Hz 125Hz 160Hz 200Hz 250Hz 315Hz 400Hz 500Hz 630Hz 800Hz 1kHz 1.25kHz 1.6kHz 2kHz 2.5kHz 3.15kHz 4kHz 5kHz 6.3kHz 8kHz 10kHz 12.5kHz
Level

1 Touch ◀ or ▶ to select LEVEL. Each time you touch ◀ or ▶ selects the item in the following order:
   SP-SEL (speakers)  BAND (bands)
   FREQUENCY (center frequency)  LEVEL (equalizer level)  Q. FACTOR (Q factor)

2 Touch ◀ or ▶ to adjust the equalizer level. Each time you touch ◀ or ▶ increases or decreases the equalizer level. +06 to –06 is displayed as the level is increased or decreased.

Q factor

1 Touch ◀ or ▶ to select Q. FACTOR. Each time you touch ◀ or ▶ selects the item in the following order:
   SP-SEL (speakers)  BAND (bands)
   FREQUENCY (center frequency)  LEVEL (equalizer level)  Q. FACTOR (Q factor)

2 Touch ◀ or ▶ to select the desired Q factor. Each time you touch ◀ or ▶ switches between the following Q factor:
   NARROW (narrow)  WIDE (wide)
   ▪ You can adjust parameters for each band of the other speakers in the same way.

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 Touch AUTO EQ on the DSP function menu.
   ▪ You cannot use this function if auto TA and EQ has not been carried out.

2 Touch ON to turn the auto-equalizer on.
   ▪ To turn auto equalizer off, touch OFF.

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

Only when the multi channel processor (e.g., DEQ P8000) is connected to this unit, you can operate this function.
The auto time alignment is automatically adjusted for the distance between each speaker and the listening position.
The auto equalizer automatically measures the car interior acoustic characteristics, and then creates the auto equalizer curve based on that information.

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

⚠ CAUTION
• Carrying out auto TA and EQ under the following conditions may damage the speakers. Be sure to check the conditions thoroughly before carrying out auto TA and EQ.
  When speakers are incorrectly connected. (e.g., When a rear speaker is connected to a subwoofer output.)
  When a speaker is connected to a power amp delivering output higher than the speaker’s maximum input power capability.
• If the microphone is placed in an unsuitable position the measurement tone may become loud and measurement may take a long time, resulting in a drain on battery power. Be sure to place the microphone in the specified location.
Before operating the auto TA and EQ function

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

• Be sure to carry out auto TA and EQ using the supplied microphone. Using another microphone may prevent measurement, or result in incorrect measurement of the car interior acoustic characteristics.

• When front speaker is not connected, auto TA and EQ cannot be carried out.

• When this unit is connected to a power amp with input level control, auto TA and EQ may not be possible if you lower power amp input level. Set the power amp’s input level to the standard position.

• When this unit is connected to a power amp with an LPF, turn off the LPF on the power amp before carrying out auto TA and EQ. In addition, the cut off frequency for built in LPF of an active subwoofer should be set to the highest frequency.

• The time alignment value calculated by auto TA and EQ may differ from the actual distance in the following circumstances. However, the distance has been calculated by computer to be the optimum delay to give accurate results for the circumstances, so please continue to use this value.

  When the reflected sound within a vehicle is strong and delays occur.
  When delays occur for low sounds due to the influence of the LPF on active subwoofers or external amps.

• Auto TA and EQ changes the audio settings as below:
  The fader/balance settings return to the center position. (Refer to page 86.)
  The equalizer curve switches to Flat. (Refer to page 92.)
  It will be adjusted automatically to high pass filter setting for front, center and rear speaker.

• If you carry out auto TA and EQ when a previous setting of this already exists, the setting will be replaced.

Carrying out auto TA and EQ

1 Stop the car in a place that is as quiet as possible, close all doors, windows and the sun roof, and then turn the engine off. If the engine is left running, engine noise may prevent correct auto TA and EQ.

2 Fix the supplied microphone in the center of the headrest of the driver’s seat, facing forward, using the belt (sold separately). The auto TA and EQ may differ depending on where you place the microphone. If desired, place the microphone on the front passenger seat to carry out auto TA and EQ.

3 Turn the ignition switch to ON or ACC. If the car’s air conditioner or heater is turned on, turn it off. Noise from the fan in the air conditioner or heater may prevent correct auto TA and EQ.
Press SOURCE to turn the source on if this unit is turned off.

4 Select the position for the seat on which the microphone is placed. Refer to Using the position selector on page 85.
- If no position is selected before you start auto TA and EQ, FRONT-L is selected automatically.

5 Press SOURCE and hold until the unit turns off.

6 Touch 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 Touch START to start the auto TA and EQ.

9 Get out of the car and close the door within 10 seconds when the 10-second count-down starts.
The measurement tone (noise) is 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, touch STOP.

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 115.)

11 Touch ESC to cancel the auto TA and EQ mode.

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

AUTO TA&EQ microphone

For details concerning operation, refer to the multi channel processor’s operation manual.

To cancel auto TA and EQ part way through, touch BACK or ESC.
Introduction of setup adjustments

1 Touch AUDIO MENU to display MENU. MENU appears on the display.
   ● You can also display MENU by clicking the joystick on the remote control.

2 Touch SETUP to display the setup function names.
   The setup function names are displayed and operable ones are highlighted.
   ● To return to the previous display, touch BACK.
   ● To return to the display of each source, touch ESC.

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

Setting the AV input
You can connect an AV component to this unit and display videos either on AV source or EXT source.
Switch the AV input setting depending on the connected AV components.

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.

This unit features a function that automatically switches to the rear view camera video (BACK UP CAMERA IN jack) when a rear view camera is installed on your vehicle. 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.)

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

Setting for 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.
To end watching a rear view camera video and return to the source display, press V.ADJ.
1 Touch B.CAMERA on the setup menu.

2 Touch ◀ on the BACK UP CAMERA setting to turn rear view camera setting on.
   - To turn rear view camera setting off, touch ▶.

3 Touch ◀ or ▶ on the POLARITY setting to select an appropriate setting for polarity.
   Each time you touch ◀ or ▶ it switches between the following polarity:
   - BATTERY  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

4 Touch ▲ or ▼ to put a clock right.
   Each time you touch ▲ it increases the selected hour or minute. Each time you touch ▼ it decreases the selected hour or minute.

Notes
- You can match the clock to a time signal by touching JUST.
  - If 00 to 29, the minutes are rounded down.
    (e.g., 10:18 becomes 10:00.)
  - If 30 to 59, the minutes are rounded up.
    (e.g., 10:36 becomes 11:00.)
- Even when the sources are off, the clock display appears on the display.

Setting the clock
Use these instructions to set the clock.

1 Touch CLOCK ADJ on the setup menu.

2 Touch OFF to turn the clock display on.
   ON will appear in the display instead of OFF.
   Clock display is now on.
   - To turn the clock display off, touch ON.

3 Touch ◀ or ▶ to select the segment of the clock display you wish to set.
   Each time you touch ◀ or ▶ it will select one segment of the clock display:
   Hour  Minute
   As you select segments of the clock display the segment selected will be highlighted.

4 Touch ▲ or ▼ to put a clock right.
   Each time you touch ▲ it increases the selected hour or minute. Each time you touch ▼ it decreases the selected hour or minute.

Notes
- You can match the clock to a time signal by touching JUST.
  - If 00 to 29, the minutes are rounded down.
    (e.g., 10:18 becomes 10:00.)
  - If 30 to 59, the minutes are rounded up.
    (e.g., 10:36 becomes 11:00.)
- Even when the sources are off, the clock display appears on the display.

Selecting video on rear display
You can set the rear display to automatically switch to the AVG VDP1 image with the front display. Alternatively, you can set it to remain showing the selected video source and not change with the front display.
- You can operate this function only when a Pioneer Vehicle Dynamics Processor (AVG VDP1) is connected to this unit.
- When selecting SOURCE and the selected source is an audio source, nothing is displayed on the rear display.

● Touch REAR DISP on the setup menu to display video of the selected source on the rear display.
Touch REAR DISP until the desired video setting appears in the display.
- SOURCE  Display the video of the selected source on the rear display
- NAVI   Display the AVG VDP1 on the rear display
Introduction of DVD setup adjustments

You can use this menu to change audio, subtitle, parental lock and other DVD settings.

1 DVD setup menu display
   Shows the DVD setup menu names.

   1 While playing a DVD disc, touch SETUP.
   Playback of the disc is stopped. SETUP will be displayed instead of MENU on the DVD menu.

2 Touch SETUP.
   The DVD setup menu is displayed.

3 Touch LANGUAGE to display the DVD language menu. Touch VISUAL to display the DVD visual menu.
   The DVD function names categorized under the selected menu are displayed.
   ▪ To go to the next group of function names, touch NEXT.
   ▪ To return to the previous group of function names, touch PREV.
   ▪ To return to the previous display, touch BACK.
   ▪ To return to the playback display, touch ESC.

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

Setting the subtitle language

You can set a desired subtitle language. If the selected subtitle language is recorded on the DVD, subtitles are displayed in that language.

1 Touch SUB TITLE LANGUAGE on the DVD language menu.
   Subtitle language menu is displayed and the currently selected language is highlighted.
   ▪ To switch to the second language select menu, touch NEXT.
   ▪ To return to the first language select menu, touch PREV.

2 Touch the desired language.
   A subtitle language is set.
   ▪ If you have selected OTHERS, refer to When you select OTHERS on this page.

   Notes
   • If the selected language is not recorded on the disc, the language specified on the disc is displayed.
   • You can also switch the subtitle language by touching SUB TITLE during playback. (Refer to Changing the subtitle language during playback (Multi subtitle) on page 33.)
   • Even if you use SUB TITLE during playback to switch the subtitle language, this does not affect the settings here.

When you select OTHERS

When you select OTHERS, a language code input display is shown. Refer to Language code chart for DVD on page 122 to input the four digit code of the desired language.

1 Touch 0 to 9 to input the language code.
   ▪ To cancel the inputted numbers, touch C.

2 While the inputted number is displayed, touch ENTER.
Setting the audio language

You can set the preferred audio language.

1 Touch AUDIO LANGUAGE on the DVD language menu.
   Audio language menu is displayed and the currently selected language is highlighted.
   • To switch to the second language select menu, touch NEXT.
   • To return to the first language select menu, touch PREV.

2 Touch the desired language.
The audio language is set.
   • If you have selected OTHERS, refer to When you select OTHERS on the previous page.

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 by touching AUDIO during playback. (Refer to Changing audio language during playback (Multi audio) on page 32.)
- Even if you use AUDIO during playback to switch the audio language, this does not affect the settings here.

Setting the menu language

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

1 Touch MENU LANGUAGE on the DVD language menu.
   A menu language menu is displayed and the currently set language is highlighted.
   • To switch to the second language select menu, touch NEXT.
   • To return to the first language select menu, touch PREV.

2 Touch the desired language.
The menu language is set.
   • If you have selected OTHERS, refer to When you select OTHERS on the previous page.

Note

If the selected language is not recorded on the disc, the language specified on the disc is displayed.

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.

1 Touch NEXT on the DVD language menu.

2 Touch ASSIST SUB TITLE to turn assist subtitles on.
   ON appears in the display.
   • To turn the assist subtitle off, touch ASSIST SUB TITLE again.

Setting the angle icon display

With this function on, the angle icon appears when the scene can be played back by different angle.

- Touch MULTI ANGLE on the DVD visual menu to turn the angle icon display on.
   ON appears in the display.
   • To turn the angle icon display off, touch MULTI ANGLE again.
Setting the aspect ratio

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

- When using a regular display, select either LETTER BOX or PANSCAN. Selecting 16:9 may result in an unnatural picture.
- If you select the TV aspect, the unit’s display changes to the same setting.

1. Touch TV ASPECT on the DVD visual menu.
2. Touch any of the following touch panel keys to select the TV aspect.
   - **16:9** Wide screen picture (16:9) is displayed as it is (initial setting)
   - **LETTER BOX** The picture is the shape of a 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

**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 16:9 LB mark. (See page 12.)
- Some discs do not enable changing of the TV aspect. For details, refer to the disc’s instructions.

Setting the parental lock

Some DVD video discs let you use parental lock to restrict 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.

1. Touch PARENTAL on the DVD visual menu.
2. Touch 0 to 9 to input a four digit code number.
   - To cancel the inputted numbers, touch C.
3. While the inputted number is displayed, touch ENTER.
   The code number is set, and you can now set the level.
4. Touch any of 1 to 8 to select the desired level.
   The parental lock level is set.
   - **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

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

**Changing the level**
You can change the set parental lock level.

1. Touch PARENTAL on the DVD visual menu.

2. Touch 0 to 9 to input the registered code number.

3. Touch ENTER. 
   This enters the code number, and you can now change the level.
   - If you input an incorrect code number, the icon 📌 is displayed. Touch C and input the correct code number.
   - If you forget your code number, refer to If you forget your code number on this page.

4. Touch any of 1 to 8 to select the desired level.
   The new parental lock level is set.

**If you forget your code number**
Refer to Setting the code number and level on the previous page, and touch C 10 times. The registered code number is all cleared, letting you register a new one. ■
Adjusting initial settings

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

1 **Source icon**
   Shows which source has been selected.

2 **Function display**
   Shows the function names.

1 Touch the source icon and then touch OFF to turn this unit off.
   - When the source icon is not displayed, you can display it by touching the screen.

2 Touch AUDIO MENU and then touch INITIAL to display the function names.
   The function names are displayed and operable ones are highlighted.
   - To go to the next group of function names, touch NEXT.
   - To return to the previous group of function names, touch PREV.
   - To return to the previous display, touch BACK.
   - To return to the display of each source, touch ESC.

Switching the auxiliary setting

Auxiliary devices connected to this unit can be activated individually. Set each AUX source to ON when using. For more information about connecting or using auxiliary devices, refer to Using the AUX source on page 110.

- Touch AUX1/AUX2 on the initial menu to turn each auxiliary setting on.
  - To turn auxiliary setting off, touch AUX1/AUX2 again.

Setting the rear output and subwoofer controller

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

Initially, the unit is set for rear full range speaker connection (FULL). When rear output is connected to full range speakers (when FULL is selected), you can connect the RCA subwoofer output to a subwoofer. In this case, you can select whether to use the subwoofer controller’s (low pass filter, phase) built in SUB.W or the auxiliary FULL.

- When the multi channel processor (e.g., DEQ P8000) is connected to this unit, you cannot operate this function.

1 Touch REAR SP on the initial menu.

2 Touch ◀ or ▶ on the REAR SPEAKER to switch the rear output setting.
   Touch ◀ to select full range speaker and FULL appears in the display. Touch ▶ to select subwoofer and SUB. W appears in the display.
   - When no subwoofer is connected to the rear output, select FULL (full range speaker).
- When a subwoofer is connected to the rear output, select **SUB. W** (subwoofer).
- When the rear output setting is **SUB. W**, you cannot change the subwoofer controller.

3 Touch ◀ or ▶ on the PREOUT setting to switch the subwoofer output or non fading output.
Touch ◀ to select subwoofer output and **SUB.W** appears in the display. Touch ▶ to select non fading output and **FULL** appears in the display.

**Notes**
- Even if you change this setting, there is no output unless you turn the nonfading output (refer to Using nonfading output on page 82) or subwoofer output (refer to Using subwoofer output on page 82) in the audio menu on.
- If you change the subwoofer controller, subwoofer output and nonfading output in the audio menu return to the factory settings.

**Switching the sound muting/attenuation**

Sound from this system is muted or attenuated automatically when the signal from the equipment with mute function is received.
- The sound is turned off, **MUTE** is displayed and no audio adjustments are possible.
- The sound is attenuated, **ATT** is displayed and no audio adjustments, except volume control, are possible.
- Sound from this system returns to normal when the muting or attenuation is canceled.

- Touch TEL/GUIDE on the initial menu to select any of the muting, attenuation or off.
Touch TEL/GUIDE until the desired setting appears in the display.
  - **MUTE** Muting
  - **ATT-20dB** Attenuation (**ATT-20dB** has a stronger effect than **ATT-10dB**)
  - **ATT-10dB** Attenuation
  - **OFF** Turn the sound muting/attenuation off

**Notes**
- The sound is muted or attenuated, **MUTE** or **ATT** are displayed and no audio adjustment is possible.
- Operation returns to normal when the phone connection or the voice guidance is ended.

**Mixing AVG-VDP1 beep and audio sound**

When connecting the AVG VDP1 to this unit, a beep sound is occasionally outputted from the AVG VDP1. To ensure the quality audio sound from this unit, set this function to **GUIDE** to properly mix the beep sound and the audio sound.
- You can operate this function only when a Pioneer Vehicle Dynamics Processor (AVG VDP1) is connected to this unit.
- When the multi channel processor (e.g., DEQ P8000) is connected to this unit, you cannot use this function.
- We recommend that you select **GUIDE** to ensure quality sound.
Touch NAVI MIX on the initial menu to switch the mixing of AVG-VDP1 beep. Touching NAVI MIX switches the mixing settings between ALL (mixing all the time) and GUIDE (mixing when a beep sound is outputted).

Correcting distorted sound
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.
- Only when the multi channel processor (e.g., DEQ P8000) is connected to this unit, you can operate this function.

Touch D. ATT on the initial menu to switch the digital attenuator setting. Touching D. ATT switches the digital attenuator settings in the following order: HIGH LOW

Changing languages for CAUTION
Some operations on this unit are prohibited while driving or needs to be paid a careful attention when operating. In such case, a caution appears on the display. You can change the language of the cautions at this setting.

Touch CAUTION on the initial menu to select your desired language. Each time you touch CAUTION, the language for CAUTION is switched.

Resetting the audio functions
You can reset all audio functions except volume.
- Only when the multi channel processor (e.g., DEQ P8000) is connected to this unit, you can operate this function.

1 Touch RESET on the initial menu. Proceed with reset? appears and asks you to confirm it.

2 Touch RESET again to reset audio functions. Reset completed is displayed and the audio settings are reset.
- To cancel resetting the audio functions, touch CANCEL.

Entering PIN code for Bluetooth wireless connection
With some Bluetooth audio players, you may be required to enter the Bluetooth audio player PIN code in advance to set this unit for a connection.
- You can only operate this function when Bluetooth adapter (e.g. CD BTB200) is connected to this unit.

1 Touch PIN code input on the initial menu. PIN code input display appears.

2 Touch 0 to 9 to input the PIN code of your Bluetooth audio player.
- Touch C to delete the number.

3 After inputting PIN code (up to 16 digits), touch ENTER. The PIN code you entered is stored in this system.
Extending the vehicle’s antenna

At the standard setting, the antenna of your vehicle is automatically retracted when you select the source OFF or when the ignition switch is at ACC. At this setting, the source remains OFF even when you receive an incoming call through Bluetooth adapter (e.g. CD BTB200). If you want to take the incoming calls you receive on the OFF source, turn AUTO ANT MODE off. The OFF source will be switched to Telephone and the antenna of your vehicle will be extended when this unit receives an incoming call.

- You can only operate this function when Bluetooth adapter (e.g. CD BTB200) is connected to this unit.

- Touch AUTO ANT MODE on the initial menu to turn the auto antenna mode off. The vehicle’s antenna will be extended and the source will be switched to Telephone every time you receive an incoming call.
- To turn the auto antenna mode on, touch AUTO ANT MODE again.
Adjusting the screen

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

- Press WIDE to select the desired setting.
Press WIDE repeatedly to switch between the following settings:
  FULL (full)  JUST (just)  CINEMA (cinema)
  ZOOM (zoom)  NORMAL (normal)
  When AVG VDP1 is connected to this unit, press WIDE and hold to select a desired screen mode. Pressing and holding WIDE repeatedly switches between the settings.

FULL (full)
A 4:3 picture is enlarged in the horizontal direction only, giving you a 4:3 TV picture (normal picture) without any omissions.

JUST (just)
The picture is enlarged slightly at the center and the amount of enlargement increases horizontally to the ends, enabling you to enjoy a 4:3 picture without sensing any disparity even on a wide screen.

CINEMA (cinema)
The picture is enlarged by the same proportion as FULL or ZOOM in the horizontal direction and by an intermediate proportion between FULL and ZOOM in the vertical direction; ideal for a cinema sized picture (wide screen picture) where captions lie outside.

ZOOM (zoom)
A 4:3 picture is enlarged in the same proportion both vertically and horizontally; ideal for a cinema sized picture (wide screen picture).

NORMAL (normal)
A 4:3 picture is displayed as it is, giving you no sense of disparity since its proportions are the same as that of the normal picture.

Notes
- Different settings can be memorized for each video source.
- When video is viewed in a wide screen mode that does not match its original aspect ratio, it may appear different.
- Remember that using the wide mode feature of this system for commercial or public viewing purposes may constitute an infringement on the author’s rights protected by the Copyright Law.
- The video image will appear coarser when viewed in CINEMA or ZOOM mode.

Changing the picture adjustment

Bright, contrast, color and hue
You can adjust BRIGHT (brightness), CONTRAST (contrast), COLOR (color) and HUE (hue) for each source and rear view camera.

- The adjustments of BRIGHT and CONTRAST are stored separately for light ambient (daytime) and dark ambient (night time).
- You cannot adjust HUE for PAL video.
- You cannot adjust COLOR or HUE for the audio source.

1 Press V.ADJ and hold to display PICTURE ADJUST.
Press V.ADJ and hold until PICTURE ADJUST appears in the display.

2 Touch any of the following touch panel keys to select the function to be adjusted.
The adjustment function names are displayed and adjustable ones are highlighted.
Section 23

Other Functions

- **BRIGHT** Adjust the black intensity
- **CONTRAST** Adjust the contrast
- **COLOR** Adjust the color saturation
- **HUE** Adjust the tone of color (red is emphasized or green is emphasized)
- **BACK-CAMERA/SOURCE** Switch the picture adjustment modes
  - You can adjust the picture adjustment for rear view camera only when **B. CAMERA** is selected for **B.CAMERA**. (Refer to Setting for rear view camera (back up camera) on page 97.)
  - If you are viewing image from the rear view camera, you cannot touch **SOURCE** to adjust picture adjustment for the selected source.
  - With some rear view cameras, picture adjustment may not be possible.

3 Touch ◀ or ▶ to adjust the selected item.
   Each time you touch ◀ or ▶ it increases or decreases the level of selected item. +24 to –24 is displayed as the level is increased or decreased.

4 Touch ESC to hide the touch panel keys.

**Dimmer**
The adjustment of **DIMMER** is stored separately for each ambient light; daytime, evening and nighttime.

1 Press V.ADJ and hold to display PICTURE ADJUST.
   Press V.ADJ and hold until PICTURE ADJUST appears in the display.

2 Touch DIMMER.

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

4 Touch ESC to hide the touch panel keys.

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

Selecting the background display

You can display the thumbnails of available background pictures/movies and select one to set your background display. The selection can be made each for the audio source group (playing CD, listening to Tuner, using telephone source, etc.) and the movie source group (watching DVD, AV, etc.).

1 Press ENTERTAINMENT (ENT).
   Thumbnails of background pictures/visuals appear on the display.
   - To go to the next group of thumbnails, touch NEXT.
   - To return to the previous group of thumbnails, touch PREV.

2 Touch one of the thumbnails that you want to display in the background.
   The selected picture/movie is displayed at the background.

**Note**
In the following cases, background images from that source cannot be selected:
- When the AV input setting is not set to VIDEO (refer to page 97).
- When the AVG VDP1 is not connected to this unit.
Adjusting the response positions of the touch panels (Touch Panel Calibration)

If you feel that the touch panel keys on the screen deviate from the actual positions that respond to your touch, adjust the response positions of the touch panel. There are two adjustment methods: 4 point adjustment, in which you touch four corners of the screen; and 16 point adjustment, in which you make fine adjustments on the entire screen.

- Make sure to use the supplied pen for adjustment, and gently touch the screen. If you press the touch panel forcefully, the touch panel may be damaged. Do not use a sharp pointed tool such as ballpoint pen or a mechanical pen. Otherwise the screen is damaged.

1 Touch the source icon and then touch OFF to turn this unit off.
   - When the source icon is not displayed, you can display it by touching the screen.

2 Press and hold BAND. The 4 point touch panel adjustment screen appears.

3 Touch each of the arrows on the four corners of the screen with the touch panel adjustment pen.
   - If the arrows are not turned red, the 4 point adjustment cannot be complete. Touch each arrow for adjustment and complete, or cancel the adjustment to return to the OFF display.
   - To cancel the adjustment, press V.ADJ.

4 Press BAND to complete the 4-point adjustment.
   The adjusted position data is saved.
   - Do not turn off the engine while saving the adjusted position data.

5 Press BAND to proceed to the 16-point adjustment.
   The 16 point touch panel adjustment screen appears.
   - To cancel the adjustment, press V.ADJ.

6 Gently touch the center of the + mark displayed on the screen with the touch panel adjustment pen.
   After you touch all the marks, the adjusted position data is saved.
   - Do not turn off the engine while saving the adjusted position data.

7 To complete the adjustment, press V.ADJ.
   - To restart the 16 point adjustment, press BAND.

**Note**

If touch panel adjustment cannot be performed properly, consult your local Pioneer dealer.

Displaying the AVG-VDP1 (Pioneer Vehicle Dynamics Processor)

This unit can be used as the display unit for the AVG VDP1 (sold separately) product.

- You can operate this function only when a Pioneer Vehicle Dynamics Processor (AVG VDP1) is connected to this unit.

- Press V.ADJ to switch the display to the AVG-VDP1.
  - To return to the video of sources, press V.ADJ again.
Using the AUX source
A separately sold auxiliary device such as VCR or portable device can be connected to this unit. When connected, auxiliary device is automatically recognized as AUX source and as signed to AUX.

About AUX connection method
You have two methods to connect auxiliary device to this unit.

Stereo mini pin plug cable (AUX1)
When connecting auxiliary device using a stereo mini pin plug cable

- Insert the stereo mini plug into the AUX input jack on this unit.
For more details, refer to the installation manual.

IP-BUS-RCA interconnector (AUX2)
When connecting auxiliary device using an IP BUS RCA Interconnector (sold separately)

- Use an IP-BUS-RCA Interconnector such as the CD-RB20/CD-RB10 (sold separately) to connect this unit to auxiliary device featuring RCA output.
For more details, refer to the IP BUS RCA Interconnector owner’s manual.
- You can only make this type of connection if the auxiliary device has RCA outputs.

Selecting AUX as the source
- Touch the source icon and then touch AUX to select AUX as the source.
  - When the source icon is not displayed, you can display it by touching the screen.
  - If the auxiliary setting is not turned on, AUX cannot be selected. For more details, see Switching the auxiliary setting on page 103.

Setting the AUX title
The title displayed for the AUX source can be changed.

1. After you have selected AUX as the source, press A.MENU button and touch FUNCTION and then touch EDIT.

2. Touch ABC to select the desired character type.
Touch ABC repeatedly to switch between the following character types:
Alphabet (upper case), numbers and symbols alphabet (lower case) European letters, such as those with accents (e.g., à, è, ë, ç)
- You can select to input numbers and symbols by touching 123.

3. Touch ▲ or ▼ to select a letter of the alphabet.
Each time you touch ▲ it will display alphabet, numbers or symbols in ascending order (A B C ...). Each time you touch ▼ it will display a letter in descending order.

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

5. Touch OK to store the entered title in memory.

6. Touch ESC to return to the playback display.
Using the external unit

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

Selecting the external unit as the source

- Touch the source icon and then touch EXT1/EXT2 to select external unit as the source.

Basic operation

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

- Touch BAND.
- Keep touching BAND.
- Touch ▼ or ▲.
- Keep touching ▼ or ▲.
- Touch ▲ or ▼.

Using the functions allocated to 1 to 6 keys

1 Touch →.

2 Touch any of 1 to 6 to select a function.

Advanced operations

1 Touch AUDIO MENU and then touch FUNCTION to display the function names. The function names are displayed and operable ones are highlighted.
   - FUNC1 (function 1)
   - FUNC2 (function 2)
   - FUNC3 (function 3)
   - FUNC4 (function 4)
   - AUTO/MANUAL (auto/manual)

2 Touch ESC to return to the ordinary display.
   - To return to the previous display, touch BACK.

Setting remote control code type

Changing the remote control operation switch to DVD mode enables you to operate the built-in DVD player with the supplied remote control. There are three remote codes for DVD mode, code type A, code type B and code type AVH. However, when operating this unit, use the code type AVH only.
   - With this unit, code A and B cannot be used.

1 Set the remote control selection switch on the left side of the remote control to the appropriate position with a pen tip or other pointed instrument.
   - If you select AVH mode, there is no need to take the following procedure.
Other Functions

- If you select A/B and if in case you need to operate other Pioneer units (may be available in the future), take the following procedure and change the code type to the appropriate type.

2 Press 0 and CLEAR on the remote control simultaneously to change the code type.
Initially, the code type is set to A. Each time you press 0 and CLEAR simultaneously on the remote control the code type switches between A and B.

Using the preprogrammed function

You can operate the preprogrammed functions for each source by using PGM.
- In order to use PGM button for preprogrammed function, the remote control operation mode switch should be set to AVH.

- Press PGM to switch the channel select modes when selecting XM or SIRIUS as the source.
Press PGM repeatedly to switch between ALL CH and CATEGORY.

- Press PGM to turn pause on when selecting the following sources:
  - DVD-V Built in DVD player
  - M-CD Multi CD player
  - iPod iPod
  - BT Audio Bluetooth audio player
- To turn pause off, press PGM again.

- Press PGM and hold to turn BSM on when selecting TUNER as the source.
Press PGM and hold until the BSM turns on.
- To cancel the storage process, press PGM again.

- Press PGM and hold to turn BSSM on when selecting TV as the source.
Press PGM and hold until the BSSM turns on.
- To cancel the storage process, press PGM again.
## Troubleshooting

### Common

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Cause</th>
<th>Action (See)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power doesn’t turn on. The unit doesn’t operate.</td>
<td>Leads and connectors are incorrectly connected.</td>
<td>Confirm once more that all connections are correct.</td>
</tr>
<tr>
<td></td>
<td>The fuse is blown.</td>
<td>Rectify the reason for the fuse blowing, then replace the fuse. Be very sure to install a fuse with the same rating.</td>
</tr>
<tr>
<td></td>
<td>Noise and other factors are causing the built in microprocessor to operate incorrectly.</td>
<td>Press <strong>RESET</strong>. (Page 13)</td>
</tr>
<tr>
<td>Playback is not possible.</td>
<td>The disc is dirty.</td>
<td>Clean disc. (Page 117)</td>
</tr>
<tr>
<td></td>
<td>The loaded disc is a type this unit cannot play.</td>
<td>Check what type the disc is.</td>
</tr>
<tr>
<td></td>
<td>Non compatible video system disc is loaded.</td>
<td>Change to a disc compatible to your video system.</td>
</tr>
<tr>
<td>No sounds are heard. The volume level will not rise.</td>
<td>Cables are not connected correctly.</td>
<td>Connect the cables correctly.</td>
</tr>
<tr>
<td></td>
<td>The unit is performing still, slow motion or frame by frame playback.</td>
<td>There is no sound during still, slow motion or frame by frame playback.</td>
</tr>
<tr>
<td>There is no picture.</td>
<td>The parking brake cord is not connected.</td>
<td>Connect a parking brake cord, and apply the parking brake.</td>
</tr>
<tr>
<td></td>
<td>The parking brake is not applied.</td>
<td>Connect a parking brake cord, and apply the parking brake.</td>
</tr>
<tr>
<td>The icon ( \circ ) is displayed, and operation is not possible.</td>
<td>The operation is prohibited for the disc.</td>
<td>This operation is not possible.</td>
</tr>
<tr>
<td></td>
<td>The operation is not compatible with the disc’s organization.</td>
<td>This operation is not possible.</td>
</tr>
<tr>
<td>The picture stops (pauses) and the unit cannot be operated.</td>
<td>Reading of data has become impossible during playback.</td>
<td>After stopping playback once, start playback once more.</td>
</tr>
<tr>
<td>There is no sound. Volume level is low.</td>
<td>The volume level is low.</td>
<td>Adjust the volume level.</td>
</tr>
<tr>
<td></td>
<td>The attenuator is on.</td>
<td>Turn the attenuator off.</td>
</tr>
<tr>
<td>There is audio and video skipping.</td>
<td>The unit is not firmly secured.</td>
<td>Secure the unit firmly.</td>
</tr>
<tr>
<td>The picture is stretched, the aspect is incorrect.</td>
<td>The aspect setting is incorrect for the display.</td>
<td>Select the appropriate setting for your display. (Page 101)</td>
</tr>
<tr>
<td>When the ignition switch is turned ON (or turned to ACC), the motor sounds.</td>
<td>The unit is confirming whether a disc is loaded or not.</td>
<td>This is a normal operation.</td>
</tr>
<tr>
<td>Nothing is displayed. The touch panel keys cannot be used.</td>
<td>The rear view camera is not connected. <strong>B.CAMERA</strong> is at incorrect setting.</td>
<td>Connect a rear view camera. Press <strong>V.ADJ</strong> to return to the source display and then select the correct setting for <strong>B.CAMERA</strong>. (Page 97)</td>
</tr>
</tbody>
</table>
### Problems during DVD playback

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Cause</th>
<th>Action (See)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Playback is not possible.</td>
<td>The loaded disc has a different region number from this unit.</td>
<td>Replace the disc with one featuring the same region number as this unit. (Page 9, Page 125)</td>
</tr>
<tr>
<td>A parental lock message is displayed and playback is not possible.</td>
<td>Parental lock is on.</td>
<td>Turn parental lock off or change the level. (Page 101)</td>
</tr>
<tr>
<td>Parental lock cannot be canceled.</td>
<td>The code number is incorrect.</td>
<td>Input the correct code number. (Page 101)</td>
</tr>
<tr>
<td></td>
<td>You have forgotten your code number.</td>
<td>Press CLEAR 10 times to cancel the code number. (Page 102)</td>
</tr>
<tr>
<td>Dialog language (and subtitle language) cannot be switched.</td>
<td>The DVD playing does not feature multiple language recordings.</td>
<td>You cannot switch among multiple languages if they are not recorded on the disc.</td>
</tr>
<tr>
<td></td>
<td>You can only switch between items indicated in the disc menu.</td>
<td>Switch using the disc menu.</td>
</tr>
<tr>
<td>No subtitles are displayed.</td>
<td>The DVD playing does not feature subtitles.</td>
<td>Subtitles are not displayed if they are not recorded on the disc.</td>
</tr>
<tr>
<td></td>
<td>You can only switch between items indicated in the disc menu.</td>
<td>Switch using the disc menu.</td>
</tr>
<tr>
<td>Playback is not with the audio language and subtitle language settings selected in DVD SETUP</td>
<td>The DVD playing does not feature dialog or subtitles in the language selected in DVD SETUP.</td>
<td>Switching to a selected language is not possible if the language selected in DVD SETUP is not recorded on the disc.</td>
</tr>
<tr>
<td>Switching the viewing angle is not possible.</td>
<td>The DVD playing does not feature scenes shot from multiple angles.</td>
<td>You cannot switch between multiple angles if the DVD does not feature scenes recorded from multiple angles.</td>
</tr>
<tr>
<td></td>
<td>You are trying to switch to multiple angle viewing of a scene that is not recorded from multiple angles.</td>
<td>Switch between multiple angles when watching scenes recorded from multiple angles.</td>
</tr>
<tr>
<td>The picture is extremely unclear/distorted and dark during playback.</td>
<td>The disc features a signal to prohibit copying. (Some discs may have this.)</td>
<td>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.</td>
</tr>
</tbody>
</table>

### Problems during Video CD playback

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Cause</th>
<th>Action (See)</th>
</tr>
</thead>
<tbody>
<tr>
<td>The PBC (playback control) menu display cannot be called up.</td>
<td>The Video CD playing does not feature PBC.</td>
<td>This operation is not possible with Video CDs not featuring PBC.</td>
</tr>
<tr>
<td>Repeat play and track/time search are not possible.</td>
<td>The Video CD playing features PBC.</td>
<td>This operation is not possible with Video CDs featuring PBC.</td>
</tr>
</tbody>
</table>
Error messages

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

<table>
<thead>
<tr>
<th>Message</th>
<th>Cause</th>
<th>Action (See)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERROR-02</td>
<td>Dirty disc</td>
<td>Clean disc.</td>
</tr>
<tr>
<td></td>
<td>Scratched disc</td>
<td>Replace disc.</td>
</tr>
<tr>
<td></td>
<td>The disc is loaded upside down</td>
<td>Check that the disc is loaded correctly.</td>
</tr>
<tr>
<td>ERROR-05</td>
<td>Electrical or mechanical</td>
<td>Press RESET.</td>
</tr>
<tr>
<td>ERROR-A0</td>
<td>Electrical or mechanical</td>
<td>Consult your dealer or your nearest authorized Pioneer Service Station.</td>
</tr>
<tr>
<td>DIFFERENT REGION DISC</td>
<td>The disc does not have the same region number as this unit</td>
<td>Replace the DVD video with one bearing the correct region number.</td>
</tr>
<tr>
<td>NON PLAYABLE DISC (NON-PLAY)</td>
<td>This type of disc cannot be played by this unit</td>
<td>Replace the disc with one this unit can play.</td>
</tr>
<tr>
<td>TEMPERATURE PROTECTION IN MOTION</td>
<td>The temperature of this unit is outside the normal operating range</td>
<td>Wait until the unit’s temperature returns to within normal operating limits.</td>
</tr>
<tr>
<td>PROTECT</td>
<td>All the files on the inserted disc are secured by digital rights management (DRM)</td>
<td>Replace disc.</td>
</tr>
<tr>
<td>TRACK SKIPPED</td>
<td>The inserted disc contains WMA files that are protected by digital rights management (DRM)</td>
<td>Replace disc.</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Message</th>
<th>Cause</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Error check MIC</td>
<td>Microphone is not connected.</td>
<td>Plug the supplied microphone securely into the jack.</td>
</tr>
<tr>
<td>Error check front SP Error check FL SP Error check FR SP Error check center SP Error check RL SP Error check RR SP Error check subwoofer</td>
<td>The microphone cannot pick up the measuring tone of a speaker.</td>
<td>• Confirm that the speakers are connected correctly.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Correct the input level setting of the power amp connected to the speakers.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Set the microphone correctly.</td>
</tr>
<tr>
<td>Message</td>
<td>Cause</td>
<td>Action</td>
</tr>
<tr>
<td>-----------------</td>
<td>------------------------------------------------------------</td>
<td>------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Error check noise</td>
<td>The surrounding noise level is too high.</td>
<td>• Stop your car in a place that is as quiet as possible, and switch off the engine, air conditioner or heater.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Set the microphone correctly.</td>
</tr>
</tbody>
</table>
**DVD player and care**

- Use only normal, round discs. If you insert irregular, non round, shaped discs they may jam in the DVD player or not play properly.

- Check all discs for cracks, scratches or warping before playing. Discs that have cracks, scratches or are warped may not play properly. Do not use such discs.
- Avoid touching the recorded (non printed) surface when handling the disc.
- Store discs in their cases when not in use.
- Keep discs out of direct sunlight and do not expose the discs to high temperatures.
- Do not attach labels, write on or apply chemicals to the surface of the discs.
- To clean a disc, wipe the disc with a soft cloth outward from the center.

- If the heater is used in cold weather, condensation may form on components inside the DVD player. Condensation may cause the DVD player to not operate properly. If you think that condensation is a problem turn off the DVD player for an hour or so to allow it to dry out and wipe any damp discs with a soft cloth to remove the moisture.
- Road shocks may interrupt disc playback.
- The DVD player plays one, standard 12 cm disc at a time. Playing back an 8 cm disc is not possible with this unit. Playable disc and adapter are listed in the table below.

<table>
<thead>
<tr>
<th>Disc Size</th>
<th>12-cm Disc</th>
<th>8-cm Disc</th>
<th>8-cm Disc Adapter</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-cm</td>
<td>√</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**DVD discs**

- With some DVD video discs, it may not be possible to use certain functions.
- It may not be possible to play back some DVD video discs.
- When DVD R/DVD RW discs are used, playback is possible only for discs which have been finalized.
- When DVD R/DVD RW discs are used, playback is possible only for discs which have been recorded with the Video format (video mode). It is not possible to play back DVD RW discs which have been recorded with the Video Recording format (VR mode).
- It may not be possible to play back DVD R/ DVD RW discs which have been recorded with the Video format (video mode), because of disc characteristics, scratches or dirt on the disc, or dirt, condensation, etc. on the lens of this unit.
- It is not possible to play back DVD ROM/ DVD RAM discs.
- Playback of discs recorded on a personal computer may not be possible, depending on the application settings and the environment. Please record with the correct format. (For details, contact the manufacturer of the application.)
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)).
- This unit conforms to the track skip function of the CD-R/CD-RW disc. The tracks containing the track skip information are skipped automatically (in case of audio data (CD DA)).
- If you insert a CD-RW disc into this unit, time to playback will be longer than when you insert a conventional CD or CD-R disc.
- Read the precautions with CD-R/CD-RW discs before using them.

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.

MP3 and WMA files

- MP3 is short for MPEG Audio Layer 3 and refers to an audio compression technology standard.
- 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.
- This unit may not operate correctly depending on the application used to encode WMA files.
- Depending on the version of Windows Media Player used to encode WMA files, album names and other text information may not be correctly displayed.
Additional Information

- This unit allows playback of compressed audio on CD ROM, CD R and CD RW discs. Disc recordings compatible with level 1 and level 2 of ISO9660 and with the Romeo and Joliet file system can be played back.
- It is possible to play back multi session compatible recorded discs.
- Compressed audio are not compatible with packet write data transfer.
- The maximum number of characters which can be displayed for a file name, including the extension (.mp3 or .wma), is 64, from the first character.
- The maximum number of characters which can be displayed for a folder name is 64.
- In case of files recorded according to the Romeo file system, only the first 64 characters can be displayed.
- When playing discs with compressed audio and audio data (CD DA) such as CD EXTRA and MIXED MODE CDs, both types can be played only by switching mode between compressed audio and CD DA.
- The folder selection sequence for playback and other operations becomes the writing sequence used by the writing software. For this reason, the expected sequence at the time of playback may not coincide with the actual playback sequence. However, there also is some writing software which permits setting of the playback order.
- Some audio CDs contain tracks that merge into one another without a pause. When these discs are converted to compressed audio and burned to a CD R/CD RW/CD ROM, the files will be played back on this player with a short pause between each one, regardless of the length of the pause between tracks on the original audio CD.

Important

- When naming an MP3 or a WMA file, add the corresponding filename extension (.mp3 or .wma).
- This unit plays back files with the filename extension (.mp3 or .wma) as an MP3 or a WMA file. To prevent noise and malfunctions, do not use these extensions for files other than MP3 or WMA files.

MP3 additional information

- Files are compatible with the ID3 Tag Ver. 1.0, 1.1, 2.2 and 2.3 formats for display of album (disc title), track (track title), artist (track artist) and comments. Ver. 2.x of ID3 Tag is given priority when both Ver. 1.x and Ver. 2.x exist.
- The emphasis function is valid only when MP3 files of 32, 44.1 and 48 kHz frequencies are played back. (16, 22.05, 24, 32, 44.1, 48 kHz sampling frequencies can be played back.)
- There is no m3u playlist compatibility.
- There is no compatibility with the MP3i (MP3 interactive) or mp3 PRO formats.
- The sound quality of MP3 files generally becomes better with an increased bit rate. This unit can play recordings with bit rates from 8 kbps to 320 kbps, but in order to be able to enjoy sound of a certain quality, we recommend using only discs recorded with a bit rate of at least 128 kbps.

WMA additional information

- This unit plays back WMA files encoded by Windows Media Player version 7 and 8.
- You can only play back WMA files in the frequencies 32, 44.1 and 48 kHz.
• The sound quality of WMA files generally becomes better with an increased bit rate. This unit can play recordings with bit rates from 48 kbps to 192 kbps, but in order to be able to enjoy sound of a certain quality, we recommend using discs recorded with a higher bit rate.
• This unit does not play back WMA files recorded as VBR (variable bit rate).

About folders and compressed audio files
• An outline of a CD ROM with compressed audio is shown below. Subfolders are shown as folders in the folder currently selected.

Using the display correctly

CAUTION
• If liquid or foreign matter should get inside this unit, turn off the power immediately and consult your dealer or the nearest authorized PIONEER Service Station. Do not use the unit in this condition because doing so may result in a fire, electric shock, or other failure.
• If you notice smoke, a strange noise or smell, or any other abnormal signs from the display, turn off the power immediately and consult your dealer or the nearest authorized PIONEER Service Station. Using this unit in this condition may result in permanent damage to the system.
• Do not disassemble or modify this unit, as there are high voltage components inside which may cause an electric shock. Be sure to consult your dealer or the nearest authorized PIONEER Service Station for internal inspection, adjustments or repairs.
Handling the display

- When the display is subjected to direct sunlight for a long period of time, it will become very hot resulting in possible damage to the LCD screen. When not using this unit, close the display and avoid exposing it to direct sunlight.
- The display should be used within the temperature ranges shown below. Storage temperature range: 4 °F to +176 °F
  At temperatures higher or lower than the operating temperature range the display may not operate normally.
- The LCD screen of this unit is exposed in order to increase its visibility within the vehicle. Please do not press strongly on it as this may damage it.
- Do not place anything on the display when it is opened. Also, do not attempt to carry out angle adjustment, or open/close the display by hand. Applying strong force to the display may damage it.
- Do not push the LCD screen with much force as this may scratch it.
- Be careful not to place anything between the display and the main body when the display is opening or closing. If an object gets between the display and main body, the display may stop working.
- Be careful of fingers, long hair, and loose articles of clothing which could possibly get caught between the display and the main body and cause serious injury.

Liquid crystal display (LCD) screen

- If the display is near the vent of an air conditioner when it is opened, make sure that air from the air conditioner is not blowing on it. Heat from the heater may damage the LCD screen, and cool air from the cooler may cause moisture to form inside the display resulting in possible damage. Also, if the display is cooled down by the cooler, the screen may become dark, or the life span of the small fluorescent tube used inside the display may be shortened.
- Small black dots or white dots (bright dots) may appear on the LCD screen. These are due to the characteristics of the LCD screen and do not indicate a problem with the display.
- At low temperatures, the LCD screen may be dark for a while after the power is turned on.
- The LCD screen will be difficult to see if it is exposed to direct sunlight.
- When using a portable phone, keep the antenna of the portable phone away from the display to prevent disruption of the video by the appearance of spots, colored stripes, etc.

Keeping the display in good condition

- When wiping the screen, take care not to scratch the surface. Do not use harsh or abrasive chemical cleaners.

Small fluorescent tube

- A small fluorescent tube is used inside the display to illuminate the LCD screen. The fluorescent tube should last for approximately 10,000 hours, depending on operating conditions. (Using the display at low temperatures reduces the service life of the fluorescent tube.) When the fluorescent tube reaches the end of its useful life, the screen will be dark and the image will no longer be projected. If this happens, consult your dealer or the nearest authorized PIONEER Service Station.
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Terms

Aspect ratio
This is the width to height ratio of a TV screen. A regular display has an aspect ratio of 4:3. Wide screen displays have an aspect ratio of 16:9, providing a bigger picture for exceptional presence and atmosphere.

Bit rate
This expresses data volume per second, or bps (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.

Bluetooth
Bluetooth is a short range wireless radio connectivity technology that is developed as a cable replacement for mobile phones, handheld PCs and other devices. Bluetooth operates in 2.4 GHz frequency range and transmits voice and data at speeds up to 1 megabit per second. Bluetooth was launched by a special interest group (SIG) that comprises of Ericsson Inc., Intel Corp., Nokia Corp., Toshiba and IBM in 1998, and it is currently developed by nearly 2000 companies worldwide.

Chapter
DVD titles are in turn divided into chapters which are numbered in the same way as the chapters of a book. With DVD video discs featuring chapters, you can quickly find a desired scene with chapter search.

Dolby Digital
Dolby Digital provides multi channel audio from up to 5.1 independent channels. This is the same as the Dolby Digital surround sound system used in theaters.

Dolby Pro Logic II
Dolby Pro Logic II can create five full band width output channels from two channel sources. This new technology enables a discrete 5 channel playback with 2 front channels, 1 center channel, and 2 rear channels. A music mode is also available for 2 channel sources in addition to the movie mode.

DTS
This stands for Digital Theater Systems. DTS is a surround system delivering multi channel audio from up to 6 independent channels.

ID3 tag
This is a method of embedding track related information in an MP3 file. This embedded information can include the track title, the artist’s name, the album title, the music genre, the year of production, comments and other data. The contents can be freely edited using software with ID3 Tag editing functions. Although the tags are restricted as to the number of characters, the information can be viewed when the track is played back.

ISO9660 format
This is the international standard for the format logic of CD-ROM folders and files. For the ISO9660 format, there are regulations for the following two levels.

Level 1:
The file name is in 8.3 format (the name consists of up to 8 characters, half byte English capital letters and half byte numerals and the “ ” sign, with a file extension of three characters).

Level 2:
The file name can have up to 31 characters (including the separation mark “.” and a file extension). Each folder contains less than 8 hierarchies.

Extended formats
Joliet:
File names can have up to 64 characters.
Romeo:
File names can have up to 128 characters.

Linear PCM (LPCM)/Pulse code modulation
This stands for linear pulse code modulation, which is the signal recording system used for music CDs and DVDs. Generally, DVDs are recorded with higher sampling frequency and bit rate than CDs. Therefore, DVDs can provide higher sound quality.

m3u
Playlists created using the “WINAMP” software have a playlist file extension (.m3u).

MP3
MP3 is short for MPEG Audio Layer 3. It is an audio compression standard set by a working group (MPEG) of the ISO (International Standards Organization). MP3 is able to compress audio data to about 1/10th the level of a conventional disc.

MPEG
This stands for Moving Pictures Experts Group, and is an international video image compression standard. Some DVDs feature digital audio compressed and recorded using this system.

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

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

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

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.
Specifications

General
Power source ............................. 14.4 V DC (10.8 V to 15.1 V allowable)
Grounding system ................... Negative type
Max. current consumption ..................................................... 10.0 A
Dimensions (W × H × D):
  DIN
    Chassis ............................... 178 mm × 100 mm × 166 mm (7 in. × 3 7/8 in. × 6 1/2 in.)
    Nose ..................................... 171 mm × 96 mm × 16 mm (6 3/4 in. × 3 3/4 in. × 5/8 in.)
Weight .......................................... 3.0 kg (6.6 lbs)

Display
Screen size/aspect ratio ...... 7.0 inch wide/16:9
  (effective display area: 156 × 82 mm)
Pixels ............................................. 336 960 (1 440 × 234)
Type ................................................ TFT active matrix, transmissive type
Color system.............................. NTSC compatible
Storage temperature range ..................................................... 4 °F to +176 °F
Angle adjustment .................... 0° to 21° (initial settings: 0°)

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 ...... 4.0 V
Equalizer (3 Band Parametric Equalizer):
  Low
    Frequency ............... 40/80/100/160 Hz
    Q Factor .................. 0.35/0.59/0.95/1.15 (+6 dB when boosted)
    Gain ...................... ±12 dB
  High
    Frequency ............... 3.15k/8k/10k/12.5k Hz
    Q Factor .................. 0.35/0.59/0.95/1.15 (+6 dB when boosted)
    Gain ...................... ±12 dB
HPF:
  Frequency ............... 50/80/125 Hz
  Slope ......................... 12 dB/oct
Subwoofer:
  Frequency ............... 50/80/125 Hz
  Slope ......................... 18 dB/oct
  Gain ...................... ±12 dB
  Phase ...................... Normal/Reverse

DVD Player
System .......................................... DVD video, Video CD, CD, WMA, MP3 system
Usable discs .............................. DVD video, Video CD, CD, CD R/RW, DVD R/RW
Region number ................ 1
Frequency response .......... 5 Hz to 44,000 Hz (with DVD, at sampling frequency 96 kHz)
Signal to noise ratio ........ 97 dB (1 kHz) (IHF A network)
  (CD: 96 dB (1 kHz) (IHF A network)) (RCA level)
Output level:
  Video .................................... 1.0 Vp p/75 Ω (±0.2 V)
  Number of channels .......... 2 (stereo)
  MP3 decoding format ........ MPEG 1 & 2 Audio Layer 3
  WMA decoding format ...... Ver. 7, 7.1, 8 (2ch audio)
  (Windows Media Player)

FM tuner
Frequency range ............... 87.9 MHz to 107.9 MHz
Usable sensitivity ........... 8 dBf (0.7 µV/75 Ω mono, S/N: 30 dB)
Signal to noise ratio .......... 75 dB (IHF A network)

AM tuner
Frequency range ............... 530 kHz to 1,710 kHz (10 kHz)
Usable sensitivity ............ 18 µV (S/N: 20 dB)
Signal to noise ratio .......... 66 dB (IHF A network)
CEA2006 Specifications

Power output: 14 W RMS × 4 Channels (4 Ω and ≤ 1 % THD+N)
S/N ratio: 91 dBA (reference: 1 W into 4 Ω)

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